

**IEA STATISTICS**

**2011**  
EDITION

**ENERGY BALANCES  
OF OECD COUNTRIES**



International  
Energy Agency

**2011**  
EDITION

**ENERGY BALANCES  
OF OECD COUNTRIES**

# INTERNATIONAL ENERGY AGENCY

The International Energy Agency (IEA), an autonomous agency, was established in November 1974. Its primary mandate was – and is – two-fold: to promote energy security amongst its member countries through collective response to physical disruptions in oil supply, and provide authoritative research and analysis on ways to ensure reliable, affordable and clean energy for its 28 member countries and beyond. The IEA carries out a comprehensive programme of energy co-operation among its member countries, each of which is obliged to hold oil stocks equivalent to 90 days of its net imports. The Agency's aims include the following objectives:

- Secure member countries' access to reliable and ample supplies of all forms of energy; in particular, through maintaining effective emergency response capabilities in case of oil supply disruptions.
- Promote sustainable energy policies that spur economic growth and environmental protection in a global context – particularly in terms of reducing greenhouse-gas emissions that contribute to climate change.
- Improve transparency of international markets through collection and analysis of energy data.
  - Support global collaboration on energy technology to secure future energy supplies and mitigate their environmental impact, including through improved energy efficiency and development and deployment of low-carbon technologies.
    - Find solutions to global energy challenges through engagement and dialogue with non-member countries, industry, international organisations and other stakeholders.

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**International  
Energy Agency**

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### What's New?

Starting with this year's edition, the countries **Chile, Estonia, Israel** and **Slovenia**, which joined the OECD in 2010, have been incorporated into this publication. All are included in OECD totals. The regional aggregate OECD North America has been changed to **OECD Americas** and now includes Chile. OECD Pacific has been changed to **OECD Asia Oceania** and now includes Israel. **OECD Europe** now includes Estonia and Slovenia starting in 1990. Prior to 1990, data for Estonia are included in Former Soviet Union and data for Slovenia in Former Yugoslavia in the publication *Energy Balances of Non-OECD Countries*.

The IEA is currently working with a group of 24 international organisations that collect or use energy statistics. The purpose of this group, called InterEnerStat, is to improve the quality of energy data and reduce the reporting burden by harmonising definitions for energy sources and flows. As a result of this work, **the IEA will now include gas works gas with coal instead of including it with natural gas.**

In line with the InterEnerStat work, the IEA has also made some small changes in the terminology that do not affect the definitions. A few examples include:

*combustible renewables and waste* becomes *biofuels and waste*

*solid biomass* becomes *solid biofuels*

*liquid biomass* becomes *liquid biofuels*

*biogas* becomes *biogases*

# INTRODUCTION

An analysis of energy problems requires a comprehensive presentation of basic statistics in original units such as tonnes of coal and kilowatt hours of electricity. This type of presentation is published in *Energy Statistics of OECD Countries*, the sister volume to this publication. The usefulness of such basic data can be considerably improved by expressing them in a common unit suitable for uses such as estimation of total energy supply, forecasting and the study of substitution and conservation. The energy balance is a presentation of the basic supply and demand data for all fuels in a manner which shows the main fuels together but separately distinguished and expressed in a common energy unit. Both of these characteristics will allow the easy comparison of the contribution each fuel makes to the economy and their interrelationships through the conversion of one fuel into another.

Energy data on OECD countries are collected from member countries by the team in the Energy Statistics Division (ESD) of the IEA Secretariat, headed by Jean-Yves Garnier. The IEA would like to thank and acknowledge the dedication and professionalism of the statisticians working on energy data in the countries. Within the IEA, electricity, coal and renew-

able statistics are the responsibility of Robert Schnapp with the help of Yasmina Abdelilah on electricity, Tomasz Truś on coal and Wendy Chen on renewables. Oil and natural gas statistics are the responsibility of Mieke Reece with the help of Tianlai Xu on oil and Laura Thomson on natural gas. Jung-Ah Kang, Julian Smith and Ryszard Pośpiech also contributed to the processing of country statistics. Karen Tréanton, with the help of Alex Blackburn, Frederic Genest and Davide D'Ambrosio, has overall production and editorial responsibility. Desktop publishing was carried out by Sharon Burghraeve.

Data from 1960 to 2009 and selected estimates for 2010 are available on CD-ROM suitable for use on IBM-compatible personal computers.

In addition, a data service is available on the internet. It includes unlimited access through an annual subscription as well as the possibility to obtain data on a pay-per-view basis. Details are available at <http://www.iea.org>.

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# OECD ENERGY TRENDS

One of the highlights of the OECD situation in 2010 is the 3.3% rebound of total primary energy supply (TPES) after the dramatic 4.4% decrease in 2009. After the financial crisis and slowdown in economic activity in 2008-2009, the OECD energy supply increased in 2010 to 5413 Mtoe, just below 2008 levels, but well below the peak of 5553 Mtoe in 2007.

## The OECD in the world

In 2009, 18% of the world population lived in the OECD, while 75% of the world GDP was created in its 34 member countries.<sup>1</sup> The TPES of the OECD in 2009 represented about 44% of global energy supply, while the total energy production of the OECD accounted for 31% of the global energy production.

**Table 1. OECD in the world, 2009**

	Population (millions)	GDP*	TPES (Mtoe)	Production (Mtoe)
OECD	1 225	29 633	5 238	3 807
World**	6 761	39 674	11 795	12 272
OECD share**	18%	75%	44%	31%

\* (billion USD, 2000 prices and exchange rates)

\*\* preliminary figures

In terms of TPES/population, with 4.3 toe per capita (compared to a world average of 1.7 toe per capita), the OECD is the most energy-intensive region.

1. Starting with this year's edition, the countries Chile, Estonia, Israel and Slovenia, which joined the OECD in 2010, have been incorporated into this publication. All are included in OECD totals. The regional aggregate OECD North America has been changed to OECD Americas and now includes Chile. OECD Pacific has been changed to OECD Asia Oceania and now includes Israel. OECD Europe now includes Estonia and Slovenia starting in 1990. Prior to 1990, data for Estonia are included in Former Soviet Union and data for Slovenia in Former Yugoslavia in the publication *Energy Balances of Non-OECD Countries*.

Several factors explain this high consumption: e.g. an electrification rate of almost 100%, a high rate of cars per household, large industry and service sectors, high heating degree-days and a high GDP per capita.

In contrast, in terms of TPES/GDP, with 0.18 toe per thousand USD<sup>2</sup> (compared to a world average of approximately 0.30 toe per thousand USD), the OECD is the least energy-intensive region. Several factors also explain the lower consumption: high GDP compared to other regions, high efficiency in transformation processes (especially power plants), high efficiency in final consumption (efficient cars, insulation of houses) and delocalisation of high energy-consuming industries.

In 2010, the OECD produced 3 889 Mtoe of primary energy while its total primary energy supply was 5 413 Mtoe. As a consequence, 28% of the energy consumed by the OECD in 2010 (the energy dependency) had to be imported from non-OECD countries.

The following paragraphs highlight the main changes since 1971 as well as giving a snapshot of the situation in 2010 for supply and in 2009 for consumption.

## Production

After dipping in 2009, OECD primary energy production increased by 2.2% to 3 889 Mtoe in 2010. This is the highest level of energy production since the founding of the International Energy Agency (IEA) in 1974 and represents a 65.1% increase compared to 1971 (i.e. an annual average growth of 1.3% over the 39-year period).

When analysing changes in the OECD energy situation, it is interesting to break the 39-year period into

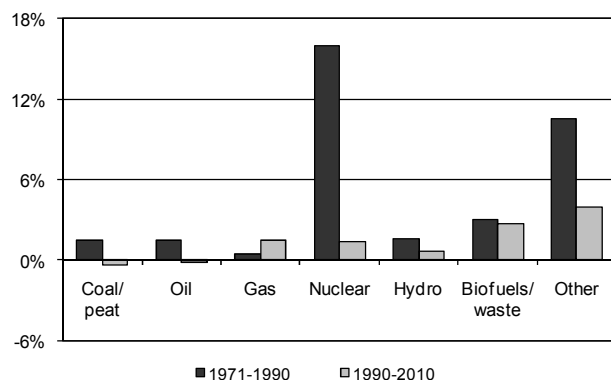
2. 2000 prices and exchange rates.



two parts (1971-1990 and 1990-2010), since 1990 is the reference year for the Kyoto Protocol. The increase in production was not uniform over the timeframe, with a much stronger growth in the first half of the period (2.0% per year) compared to the second half (0.6% per year). The comparative annual growth for each of the fuels shows similar trends, i.e. a much higher growth in the first part of the period (see Figure 1). The exceptions to this are natural gas, which experienced stronger growth in the second part of the period, and biofuels and waste, which saw similar growth rates for both parts of the period.

After the first oil shock in 1973 and the establishment of the IEA, a special effort was made by most of the OECD countries to reduce their dependence on imported oil by various policies, including the development of alternative sources of energy, and for some of them, by exploiting their oil reserves.

**Figure 1. Average annual growth rates in OECD primary energy production**



Within 15 years, the launch of large nuclear programmes in several countries and the exploitation of new open-sky mines in OECD Americas led to a dramatic increase of nuclear and coal production. In 1971, nuclear represented 27 Mtoe whereas in 1990 it accounted for 451 Mtoe. Similarly coal went up from 814 Mtoe in 1971 to 1 073 Mtoe in 1990. These increases, combined with the increase in oil production (especially in the Gulf of Mexico, Norway and the United Kingdom) from 693 to 923 Mtoe, explain the relatively high growth in energy production observed in the first half of the 39-year period.

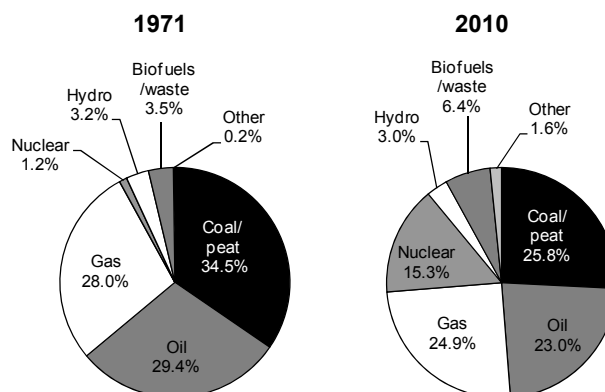
During the second half of the period (from 1990 to 2010), the situation was significantly different. Oil production in the OECD as a whole peaked in 1997, and has been decreasing steadily since then. Oil production in the United Kingdom and Norway reached maximum levels in 1999/2000 whereas Mexico oil

production peaked in 2005. On the other hand, oil production for Canada is increasing and reached its highest level in 2010. Coal production in the OECD also decreased by 6.5% during this period due to the closing of high-cost deep mines in OECD Europe and OECD Asia Oceania. On the other hand, nuclear continued to rise at a steady rate, going from 451 Mtoe in 1990 to 615 Mtoe in 2006 before dropping slightly between 2007 and 2009 and increasing to 596 Mtoe in 2010. In addition, the discovery and exploitation of large natural gas fields in OECD Americas led to a major increase in natural gas production from 718 Mtoe in 1990 to 967 Mtoe in 2010.

As a consequence of the contrasting evolution of the various fuels over the period, the shares of the main fuels in total production changed significantly between 1971 and 2010 (see Figure 2).

In 2010, the share of fossil fuels in total OECD production accounted for 73.7%; coal, oil and natural gas represented roughly one quarter of production each. Nuclear accounted for 15.3%, a large increase from 1.2% in 1971.

**Figure 2. Fuel shares in OECD production**



Energy from renewables and waste represented 11.0% in 2010; biofuels and waste contributed for more than one half, hydro for more than one quarter and geothermal energy accounted for most of the rest. Biofuels and waste grew more rapidly than hydro and geothermal, with a growth of 5.2% between 2009 and 2010.

As regards the other forms of renewable energy, their production started to grow steadily in recent years, although their shares remain limited. For example, solar and wind energy have experienced high annual growth since 1990, with a growth of 15.3% alone between 2009 and 2010. However, their combined production still only accounted for 0.8% of total primary energy production in 2010.

## Trade

Preliminary data for 2010 show that OECD net imports remained fairly constant in 2010 after a 9.5% decrease in 2009, the largest yearly decrease since the early 1980s, which was due to the economic crisis in 2008/2009.

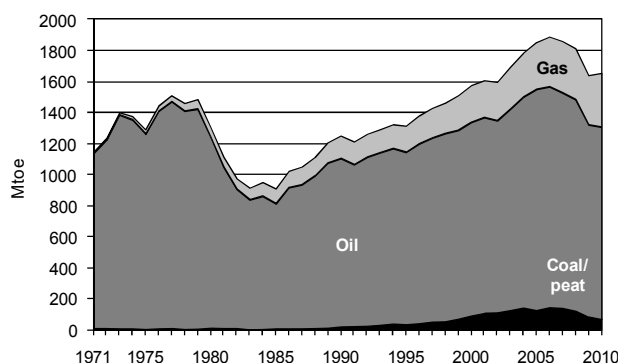
In 1971, 98.3% of the 1 145 Mtoe of total net imports of energy for the OECD were related to oil; net imports were equivalent to nearly half of the OECD energy production. The policies taken by OECD member countries in order to reduce their dependence on imported oil had twofold consequences for the period 1971-1985:

- a decrease in net imports of oil from 1 461 Mtoe in 1977 to 804 Mtoe in 1985;
- a decrease in the share of oil imports in total net imports (from 98.3% in 1971 to 88.4% in 1985).

The fall of oil prices in the mid 1980s had an impact on the historical trend of OECD energy trade. Net imports of oil in the OECD started to increase again in 1986, growing on average by 2.4% per year between 1986 and 2005. In 2005, net imports of oil peaked at 1 425 Mtoe before declining to 1 238 Mtoe in 2009. In 2010, net oil imports remained stable at 1 239 Mtoe.

On the other hand, volatility of oil prices, increasing performance of natural gas-fired power plants, fuel switching for heating purposes and a growing interest in the use of natural gas for its lower CO<sub>2</sub> emissions led to a steady increase of net imports of natural gas. After decreasing by 3.6% in 2009, net imports of natural gas rose by 9.5% between 2009 and 2010. This reduced the share of oil in total energy imports to 74.6% in 2010.

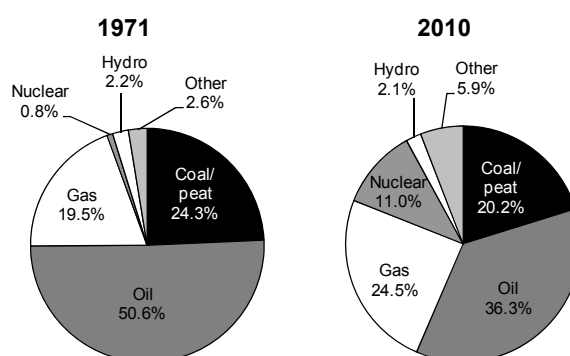
**Figure 3. Net imports of primary energy by fuel for the OECD**



## Total primary energy supply

After falling in 2008 and 2009, OECD's TPES increased by 3.3% in 2010. In 2010, the share of fossil fuels in TPES was 81.0%, almost constant from the all-time low of 80.9% in 2009. This compares to a share of 94.4% in 1971. Despite the policies taken after the first oil supply shock to reduce the dependency on oil, oil remains the largest component of TPES in the OECD. However, its share has decreased from 50.6% in 1971 to 36.3% in 2010 (see Figure 4).

**Figure 4. Fuel shares in TPES for the OECD\***



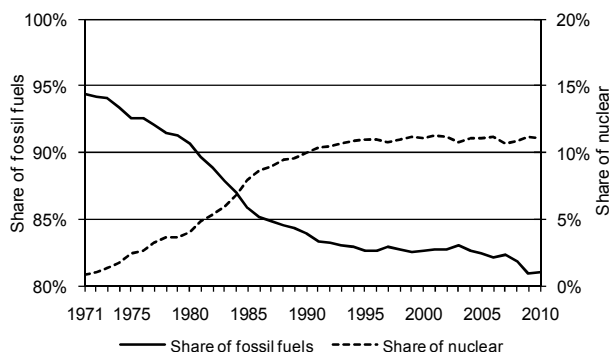
\* Includes electricity trade.

Although efforts have been made to reduce the use of oil in sectors where it can be substituted by other fuels, e.g. electricity production, the growing demand in "captive" sectors such as transport explains why the share of oil remains the highest amongst all energy sources.

The share of coal and peat in total TPES was 24.3% in 1971 and decreased to 20.2% in 2010. In the last decade, coal was partly replaced by natural gas, notably for electricity generation. Natural gas was the only fossil fuel with increasing shares in the last 39 years (from 19.5% in 1971 to 24.5% in 2010) and became the second fuel in the OECD starting in 1999.

The share of nuclear energy in OECD TPES grew from 0.8% in 1971 to 11.3% in 2001, falling slightly to 11.0% in 2010. The development of nuclear energy was particularly intense between 1971 and 1990, with an average growth of 16.0% per year. Since then, the development of nuclear energy has slowed, with a growth of 1.4% per year.

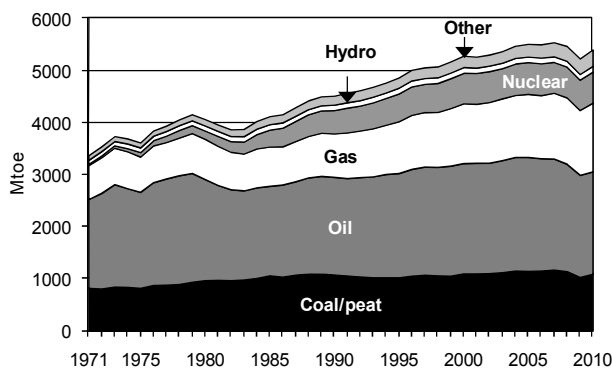
**Figure 5. Share of fossil fuels and nuclear in OECD TPES**



Although hydro energy increased from 76 Mtoe in 1971 to 115 Mtoe in 2010, the share of hydro in TPES remained constant at around 2%.

The impact of other alternative energy sources grew from 2.6% in 1971 to 5.9% in 2010. Within this category, solid biofuels (including wood, wood wastes, charcoal and other solid biofuels) was the largest contributor and represented 3.0% of total TPES. Geothermal energy (including both direct use and energy used for electricity generation) contributed 0.6% to TPES while wind contributed 0.4%. Due to recent efforts in OECD countries to increase the amount of biofuels blended in transport fuels, biogasoline represented 0.5% and biodiesels represented 0.2% of total TPES in 2010. Small amounts also came from other liquid biofuels, biogases, municipal waste, industrial waste, solar and tide/wave/ocean.

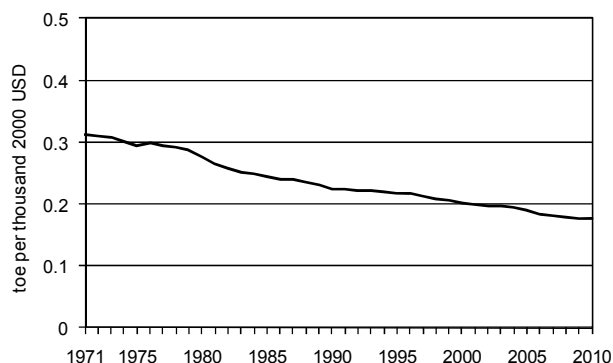
**Figure 6. OECD TPES by fuel**



TPES rose from 3 372 Mtoe in 1971 to 5 553 Mtoe in 2007 before falling to 5 238 Mtoe in 2009 and rebounding to 5 413 Mtoe in 2010. With an annual average rate of growth of 1.2% per year since 1971, this growth was less than half that of the growth in GDP observed for the OECD over the same period.

As a consequence, energy intensity (TPES/GDP) fell from 0.31 toe per thousand USD in 1971 to 0.18 toe per thousand USD in 2006 and has remained constant since then.

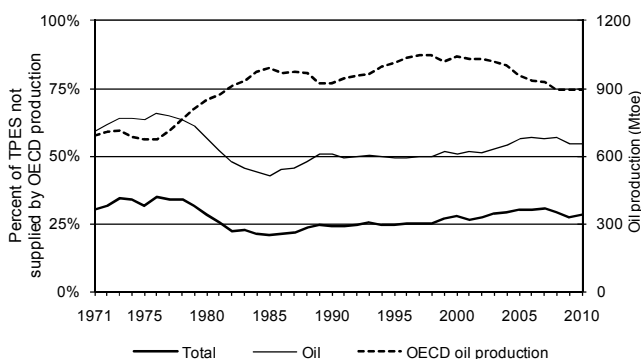
**Figure 7. TPES/GDP in the OECD**



Energy dependency, defined as the fraction of TPES not supplied by OECD production, is strongly influenced by the evolution of OECD oil production and imports. Energy dependency of total OECD was 30.2% in 1971 and peaked in 1976 at 34.9%, when the increase in oil production in Norway and the United Kingdom had not yet started. Energy dependency declined sharply after 1979, when an increasingly large part of the oil imports started to be replaced by domestic production.

In the following years the trend of energy dependency was mainly influenced by the variations of OECD oil production (and imports), but it was smoothed by the increasing weight of other energy sources. As a result, energy dependency grew slowly between 1985 and 2007, when it was back to 1971 levels. In 2008 and 2009 lower demand in the OECD countries caused the energy dependency to fall from 30.5% to 27.3% in two years, before increasing again to 28.2% in 2010.

**Figure 8. Energy dependency in the OECD**

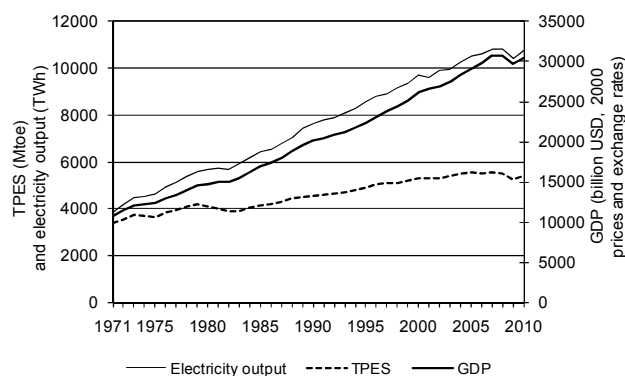


## Electricity generation

Electricity generated in the OECD increased 3.5% in 2010, just below the all-time high of 2008. Electricity generation on average increased by 2.7% per year since 1971, twice as fast as TPES but at a rate comparable to the growth in GDP. Total generation, including the part from CHP, amounted to 10 772 TWh in 2010.

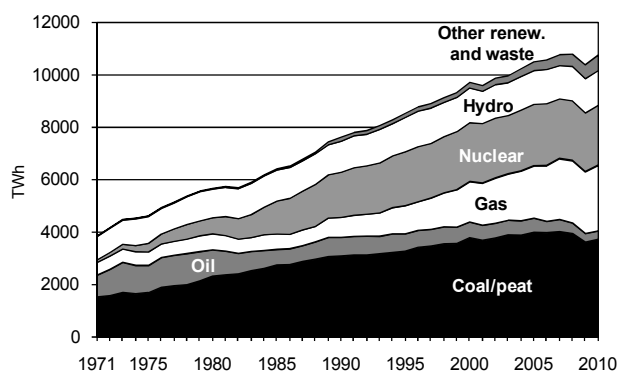
The fuels used for electricity production changed significantly over time and, as for TPES, the trend in the fuel mix was affected by oil prices and the energy policies of OECD member countries.

**Figure 9. GDP, TPES and electricity output in the OECD**



Power generation is the sector where the efforts to reduce dependency on oil found their best ground. Oil accounted for 21.7% of the electricity production in 1971, but its share was reduced to 2.8% in 2010. Most of the decline occurred in the late 1970s and in the early 1980s.

**Figure 10. Electricity generation by fuel in the OECD**

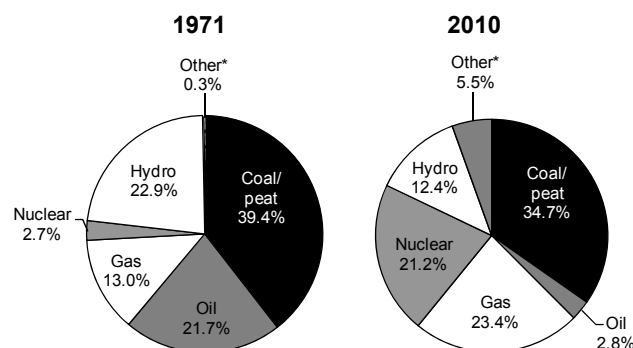


On average, electricity from coal and peat increased by 2.3% per year after 1971, but its growth was weaker after 1990 (1.0% per year, on average), especially because of the increasing use of natural gas in power generation. In 2010 the share of coal and peat was 34.7%, as compared to 39.4% in 1971.

Natural gas accounted for 13.0% of OECD electricity production in 1971. The share of natural gas in electricity decreased until the late 1980s and reached its minimum in 1988, when natural gas-fired power plants contributed only 8.4% of the total electricity output. Technological improvements (highly efficient gas turbines and combined cycle plants), low CO<sub>2</sub> emissions and relatively low prices reversed the trend and allowed natural gas to gain in importance during the 1990s. Outputs from natural gas-fired power plants reached 23.4% in 2010.

The share of hydro decreased dramatically from 22.9% in 1971 to 12.4% in 2010, despite an increase in absolute terms, since most of the possible sites for large hydro production had already been equipped by 1971.

**Figure 11. Fuel shares in OECD electricity output**



\* Includes other renewables and waste

The development of nuclear energy has been extremely important in electricity generation. Nuclear power represented over one-fifth of the total electricity output in 2010, while its share was less than 3% in 1971.

Other energy sources gave a limited contribution to electricity generation in 2010. Biofuels and waste represented 2.3% of total output. Although wind electricity grew by 23.4% per year between 1990 and 2010, it did not exceed 2.4% of the total output generated in OECD countries. However, for the first time in 2001, wind accounted for more electricity generation than geothermal.

The overall efficiency of electricity generation improved over time, but less than might have been expected given that new power stations were built. The increase

was due to technical improvements, especially in combined cycles. However, the primary energy from nuclear (obtained from traditional cycles with an efficiency close to 33%) and the weight of nuclear in total electricity production offset the gain in the overall efficiency of power plants.

The fraction of TPES consumed for electricity and heat generation increased significantly between 1971 and 2009. The reasons behind such an increase can be found in the transition of OECD economies from industry to services (which are more electricity-intensive than industry), in the growing use of electric-intensive technologies and in the growing share of electricity consumption (with respect to other energies) in industry, commercial/public services and residential.

## Total final consumption

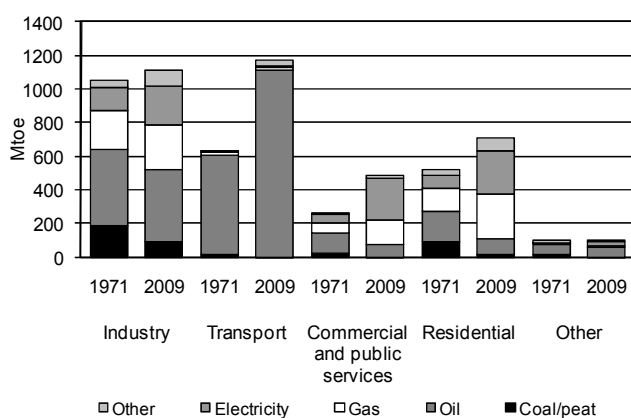
OECD total final consumption (TFC) of energy accounted for 3 582 Mtoe in 2009, 5.8% lower than the peak in 2007. However, preliminary information show an increase of TFC in 2010 although final data are not yet available. In 2009, TFC represented more than two-thirds of TPES. On average, TFC has increased by 0.9% per year since 1971, one-third that of the GDP growth for the OECD.

Trends were not homogeneous amongst energy sources. End-use of coal tended to decrease in all sectors, while oil consumption was heavily affected by the high oil prices in the mid 1970s and early 1980s and declined in all non-captive sectors. Natural gas increased by 1.2% per year from 1971 to 2009 while electricity doubled its share in TFC over the same period.

Despite all the efforts made to reduce the oil dependency of OECD countries, transport has always been a captive sector for oil, which accounted for 94.4% of transport consumption in 2009 compared to 95.0% in 1971.

Moreover, the weight of transport in TFC increased between 1971 and 2009 due to the rising number of vehicles, the tendency to use larger engines, the high use of road transport in trading goods and the relative decrease of the use of oil in other sectors. In 2009, transport was about one-third of the total final consumption, while it only accounted for a quarter in 1971.

Figure 12. TFC by fuel and by sector in the OECD



Industry, residential and services also increased their consumption, but at lower rates. In addition, natural gas and electricity started to substitute consumption of oil and coal in these sectors.

The share of coal in industry dropped from 17.8% in 1971 to 8.3% in 2009; it went down from 16.9% to 2.3% in residential. The oil share in commercial/public services represented 45.9% of consumption in 1971 and fell to 14.0% in 2009. Similarly, the oil share declined from 35.3% to 13.4% in residential.

Final consumption of electricity fell by 4.1% between 2007 and 2009. This was the first time since 1982 that electricity consumption went down. Indeed on average, driven by the development of electricity-intensive technologies (electronics, robotics, etc.), total final consumption of electricity grew by 2.7% a year between 1971 and 2009. The greatest increases concerned commercial/public services (4.2%) and residential (3.1%). The growth of natural gas was more moderate, with an increase of 1.2% per year, and mainly concerned residential and commercial/public services, with a joint average increase of 1.9% during the 38-year period. Use of natural gas in agriculture and road increased significantly, but both sectors started from very low bases.

Use of other energy sources (mainly biofuels) was limited to certain industrial activities (paper, pulp, wood and wood products) and to residential, although the share in transport is growing as a result of recent policies in OECD countries to increase the fraction of biogasoline and biodiesels in transport fuels. The share of biofuels and waste in total final consumption was 4.7% in 2009.

# PART I

# METHODOLOGY

## **MULTILINGUAL GLOSSARIES**

See multilingual glossary at the end of the publication.

Voir le glossaire en plusieurs langues à la fin du présent recueil.

Deutsches GLOSSAR auf der letzten Umschlagseite.

Riferirsi al glossario multilingue alla fine del libro.

巻末の日本語用語集を参照

Véase el glosario plurilingüe al final del libro.

Смотрите многоязычный словарь в конце книги.

## ABBREVIATIONS

Btu:	British thermal unit
GWh:	gigawatt hour
kcal:	kilocalorie
kg:	kilogramme
kJ:	kilojoule
Mt:	million tonnes
m <sup>3</sup> :	cubic metre
t:	metric ton = tonne = 1000 kg
TJ:	terajoule
toe:	tonne of oil equivalent = 10 <sup>7</sup> kcal
CHP:	combined heat and power
GCV:	gross calorific value
GDP:	gross domestic product
HHV:	higher heating value = GCV
LHV:	lower heating value = NCV
NCV:	net calorific value
PPP:	purchasing power parity
TPES:	total primary energy supply
IEA:	International Energy Agency
IPCC:	Intergovernmental Panel on Climate Change
ISIC:	International Standard Industrial Classification
OECD:	Organisation for Economic Co-Operation and Development
OLADE:	Organización Latinoamericana de Energía
UN:	United Nations
UNIPED:	International Union of Producers and Distributors of Electrical Energy
c	confidential
e	estimated
..	not available
-	nil
x	not applicable

# 1. EXPLANATORY NOTES

## Unit

The IEA energy balance methodology is based on the calorific content of the energy commodities and a common unit of account. The unit of account adopted by the IEA is the tonne of oil equivalent (toe) which is defined as  $10^7$  kilocalories (41.868 gigajoules). This quantity of energy is, within a few per cent, equal to the net heat content of 1 tonne of crude oil. Throughout this publication 1 tonne means 1 metric ton or 1000 kg.

## Conversion (from original units to toe)

The change from using the original units to tonnes of oil equivalent implies choosing coefficients of equivalence between different forms and sources of energy. This problem can be approached in many different ways. For example, one could adopt a single equivalence for each major primary energy source in all countries, e.g. 29 307 kJ/kg (7 000 kcal/kg) for hard coal, 41 868 kJ/kg (10 000 kcal/kg) for oil, etc.

The main objection to this method is that it results in distortions since there is a wide spread in calorific values between types of coal and individual coal products, and between calorific values of these fuels in different countries. The Secretariat has, therefore, adopted specific factors supplied by the national administrations for the main categories of each quality of coal and for each flow or use (i.e. production, imports, exports, electricity generation, coke ovens, blast furnaces and industry).

For crude oil, specific factors have been used for production, imports and exports based on consultations

with experts from the national administrations. The IEA applies regional conversion factors (in conjunction with Eurostat for the European countries) for the oil products.

Gas data in *Energy Statistics of OECD Countries* are presented in terajoules on a **gross calorific basis**. Data on biofuels & waste are presented in terajoules on a **net calorific basis** (with the exception of liquid biofuels which are in 1000 tonnes).

The balances are expressed in terms of "net" calorific value. The difference between the "net" and the "gross" calorific value for each fuel is the latent heat of vaporisation of the water produced during combustion of the fuel. For coal and oil, the net calorific value is about 5% less than gross, for most forms of natural and manufactured gas the difference is 9-10%, while for electricity and heat there is no difference as the concept has no meaning in this case. The use of net calorific value is consistent with the practice of the Statistical Offices of the European Communities and the United Nations.

Electricity data are converted from original units of gigawatt hours to million tonnes of oil equivalent using the relationship: 1 terawatt hour = 0.086 Mtoe.

For more detail on converting to heat units, see Section 2, Units and conversions.

## Primary energy conventions

When constructing an energy balance, it is necessary to adopt conventions for primary energy from several sources, such as nuclear, geothermal, solar, hydro, wind, etc. The two types of assumptions that have to be made are described below.



## Choice of the primary energy form

For each of these sources, there is a need to define the form of primary energy to be considered; for instance, in the case of hydro energy, a choice must be made between the kinetic energy of falling water and the electricity produced. For nuclear energy, the choice is between the energy content of the nuclear fuel, the heat generated in the reactors and the electricity produced. For photovoltaic electricity, the choice is between the solar radiation received and the electricity produced.

The principle adopted by the IEA is that the primary energy form should be the first energy form downstream in the production process for which multiple energy uses are practical. The application of this principle leads to the choice of the following primary energy forms:

- **Heat** for nuclear, geothermal and solar thermal;
- **Electricity** for hydro, wind, tide/wave/ocean and solar photovoltaic.

## Calculation of the primary energy equivalent

There are essentially two methods that can be used to calculate the primary energy equivalent of the above energy sources: the partial substitution method and the physical energy content method.

**The partial substitution method:** In this method, the primary energy equivalent of the above sources of electricity generation represents the amount of energy that would be necessary to generate an identical amount of electricity in conventional thermal power plants. The primary energy equivalent is calculated using an average generating efficiency of these plants. This method has several shortcomings, including the difficulty of choosing an appropriate generating efficiency and the fact that the partial substitution method is not relevant for countries with a high share of hydro electricity. For these reasons, the IEA, as most international organisations, has now stopped using this method and adopted the physical energy content method.

**The physical energy content method:** This method uses the physical energy content of the primary energy source as the primary energy equivalent. As a consequence, there is an obvious link between the principles adopted in defining the primary energy forms of energy sources and the primary energy equivalent of these sources.

For instance, in the case of nuclear electricity production, as heat is the primary energy form selected by the IEA, the primary energy equivalent is the quantity of heat generated in the reactors. However, as the amount of heat produced is not always known, the IEA estimates the primary energy equivalent from the electricity generation by assuming an efficiency of 33%, which is the average of nuclear power plants in Europe.

In the case of hydro and solar PV, as electricity is the primary energy form selected, the primary energy equivalent is the physical energy content of the electricity generated in the plant, which amounts to assuming an efficiency of 100%. A more detailed presentation of the assumptions used by the IEA in establishing its energy balances is given in Section 2.

For geothermal, if no country-specific information is reported, the primary energy equivalent is calculated as follows:

- 10% for geothermal electricity;
- 50% for geothermal heat.

Since these two types of energy balances differ significantly in the treatment of electricity from solar, hydro, wind, etc., the share of renewables in total energy supply will appear to be very different depending on the method used. As a result, when looking at the percentages of various energy sources in total supply, it is important to understand the underlying conventions that were used to calculate the primary energy balances.

## Indicators

**Energy production:** total primary energy production, expressed in Mtoe.

**Net imports:** imports minus exports for total energy, expressed in Mtoe.

**Total primary energy supply:** expressed in Mtoe.

**Net oil imports:** imports minus exports of oil, expressed in Mtoe.

**Oil supply:** primary supply of oil, expressed in Mtoe.

**Electricity consumption:** domestic consumption, i.e. gross production + imports - exports - losses, expressed in TWh.

**Population:** the main source of these series for 1970 to 2009 is *National Accounts of OECD Countries, Volume 1*, 2011. Data for 1960 to 1969 have been estimated using the growth rates from the population series published in the *OECD Economic Outlook No 76*. For the **Czech Republic, Hungary and Poland** (1960 to 1969) and **Mexico** (1960 to 1962), the data are estimated using the growth rates from the population series from the World Bank published in the *World Development Indicators CD-ROM*. For the **Slovak Republic**, population data for 1960 to 1989 are from the Demographic Research Centre, Infostat, Slovak Republic.

Population for 2010 has been estimated using the population numbers submitted on the Questionnaire for country submissions for the SLT/CERT annual review of energy policies.

**GDP:** the main source of these series for 1970 to 2010 is *National Accounts of OECD Countries, Volume 1*, 2011. GDP data for Australia, France, Greece and Sweden for 1960 to 1969 and Denmark for 1966 to 1969 as well as for Netherlands for 1969 come directly from the most recent volume of *National Accounts*. GDP data for 1960 to 1969 for the other countries have been estimated using the growth rates from the series in the *OECD Economic Outlook No 76* and data previously published by the OECD. Data prior to 1986 for **Chile**, prior to 1990 for the **Czech Republic and Poland**, prior to 1991 for **Hungary**, and prior to 1992 for the **Slovak Republic** are IEA Secretariat estimates based on GDP growth rates from the World Bank.

The GDP data have been compiled for individual countries at market prices in local currency and annual rates. These data have been scaled up/down to the price levels of 2000 and then converted to US dollars using the yearly average 2000 exchange rates or purchasing power parities (PPPs).

Purchasing power parities are the rates of currency conversion that equalise the purchasing power of different currencies. A given sum of money, when converted into different currencies at the PPP rates, buys the same basket of goods and services in all countries. In other words, PPPs are the rates of currency conversion which eliminate the differences in price levels between different countries. The PPPs selected to convert the GDP from national currencies to US dollars were aggregated using the Geary-Khamis (GK) method and rebased on the United States. For a

more detailed description of the methodology please see *Purchasing Power Parities and Real Expenditures, GK Results, Volume II, 1990*, OECD 1993.

**Industrial Production Index:** the main source of these series is the OECD database *Main Economic Indicators*, April 2011. Industrial production refers to the goods produced by establishments engaged in mining (including oil extraction), manufacturing, and production of electricity, gas and water. These are categories B, C, D and E of ISIC<sup>1</sup> Rev. 4 or NACE Rev. 2 classifications. From 1991, the industrial production index for **Germany** refers to unified Germany and has been linked to the series for Western Germany. For OECD Total, data refer to all OECD countries; prior to 1995 Chile, Czech Republic, Estonia, Hungary, Iceland, Israel, Poland, Slovak Republic and Slovenia are excluded. For OECD Europe, data refer to the 25 OECD countries that are located in Europe starting from 1995; prior to 1995 Czech Republic, Estonia, Hungary, Iceland, Poland, Slovak Republic and Slovenia are excluded.

## Layout

The energy balances are presented in tabular format: columns for the various sources of energy and rows for the different origins and uses.

### Columns

Across the top of the table from left to right, there are eleven columns with the following headings:

**Column 1:** *Coal and peat* includes all coal, both primary (including hard coal and lignite) and derived fuels (including patent fuel, coke oven coke, gas coke, BKB, gas works gas, coke oven gas, blast furnace gas and other recovered gases). Peat is also included in this category. *Note: starting with the 2011 edition, gas works gas is included here with coal. In previous years, gas works gas was included with natural gas.*

**Column 2:** *Crude oil* comprises crude oil, natural gas liquids, refinery feedstocks, and additives as well as other hydrocarbons (including emulsified oils, synthetic crude oil, mineral oils extracted from bituminous minerals such as oil shale, bituminous sand, etc., and oils from coal liquefaction).

1. International Standard Industrial Classification of All Economic Activities, Series M, No. 4 / Rev. 4, United Nations, New York, 2008.

**Column 3:** *Oil products* comprise refinery gas, ethane, LPG, aviation gasoline, motor gasoline, jet fuels, kerosene, gas/diesel oil, fuel oil, naphtha, white spirit, lubricants, bitumen, paraffin waxes, petroleum coke and other oil products.

**Column 4:** *Natural gas* includes natural gas (excluding natural gas liquids). *Note: starting with the 2011 edition, gas works gas is included with coal. In previous years, gas works gas was included with natural gas.*

**Column 5:** *Nuclear* shows the primary heat equivalent of the electricity produced by a nuclear power plant with an average thermal efficiency of 33%.

**Column 6:** *Hydro* shows the energy content of the electricity produced in hydro power plants. Hydro output excludes output from pumped storage plants.

**Column 7:** *Geothermal, solar, etc.* shows production of geothermal, solar, wind and tide/wave/ocean energy and the use of these energy forms for electricity and heat generation. Unless the actual efficiency of the geothermal process is known, the quantity of geothermal energy entering electricity generation is inferred from the electricity production at geothermal plants assuming an average thermal efficiency of 10%. For solar, wind and tide/wave/ocean energy, the quantities entering electricity generation are equal to the electrical energy generated. Other uses shown in this column relate to geothermal and solar thermal heat.

**Column 8:** *Biofuels & waste* comprises solid biofuels, liquid biofuels, biogases, industrial waste and municipal waste. Biofuels are defined as any plant matter used directly as fuel or converted into fuels (e.g. charcoal) or electricity and/or heat. Included here are wood, vegetal waste (including wood waste and crops used for energy production), ethanol, animal materials/wastes and sulphite lyes (also known as "black liquor" which is an alkaline spent liquor from the digesters in the production of sulphate or soda pulp during the manufacture of paper where the energy content is derived from the lignin removed from the wood pulp and which is usually 65-70% solid in its concentrated form).

Municipal waste comprises wastes produced by residential and commercial/public services that are collected by local authorities for disposal in a central location for the production of heat and/or power. Hospital waste is included in this category.

Note that for biofuels, only the amounts of biomass specifically used for energy purposes (a small part of

the total) are included in the energy statistics. Therefore, the non-energy use of biomass is not taken into consideration and the quantities are null by definition.

Data under this heading are often based on incomplete information. Thus the data give only a broad impression of developments, and are not strictly comparable between countries. In some cases complete categories of vegetal fuel are omitted due to lack of information. Please refer to individual country data when consulting regional aggregates.

**Column 9:** *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 10:** *Heat* shows the disposition of heat produced for sale. The large majority of the heat included in this column results from the combustion of fuels although some small amounts are produced from electrically powered heat pumps and boilers. Any heat extracted from ambient air by heat pumps is shown as production.

**Column 11:** *Total* equals the total of Columns 1 to 10.

## Rows

The categories on the left hand side of the table have the following functions:

**Row 1:** *Production* is the production of primary energy, i.e. hard coal, lignite, peat, crude oil, NGL, natural gas, biofuels and waste, nuclear, hydro, geothermal, solar and the heat from heat pumps that is extracted from the ambient environment. Production is calculated after removal of impurities (e.g. sulphur from natural gas). Calculation of production of hydro, geothermal, etc. and nuclear electricity is explained in Section 2, Units and conversions.

**Row 2/3:** *Imports* and *exports* comprise amounts having crossed the national territorial boundaries of the country, whether or not customs clearance has taken place.

*For coal:* Imports and exports comprise the amount of fuels obtained from or supplied to other countries, whether or not there is an economic or customs union between the relevant countries. Coal in transit should not be included.

*For oil and natural gas:* Quantities of crude oil and oil products imported or exported under processing agreements (i.e. refining on account) are included. Quantities of oil in transit are excluded. Crude oil,

NGL and natural gas are reported as coming from the country of origin; refinery feedstocks and oil products are reported as coming from the country of last consignment. Re-exports of oil imported for processing within bonded areas are shown as exports of product from the processing country to the final destination.

*For electricity:* Amounts are considered as imported or exported when they have crossed the national territorial boundaries of the country. If electricity is “wheeled” or transited through a country, the amount is shown as both an import and an export.

**Row 4:** *International marine bunkers* covers those quantities delivered to ships of all flags that are engaged in international navigation. The international navigation may take place at sea, on inland lakes and waterways, and in coastal waters. Consumption by ships engaged in domestic navigation is excluded. The domestic/international split is determined on the basis of port of departure and port of arrival, and not by the flag or nationality of the ship. Consumption by fishing vessels and by military forces is also excluded. See *domestic navigation* (Row 40), *fishing* (Row 46) and *non-specified “other”* (Row 47).

**Row 5:** *International aviation bunkers* includes deliveries of aviation fuels to aircraft for international aviation. Fuels used by airlines for their road vehicles are excluded. The domestic/international split should be determined on the basis of departure and landing locations and not by the nationality of the airline. For many countries this incorrectly excludes fuel used by domestically owned carriers for their international departures.

*Note: In October 2008 the IEA hosted the 3rd meeting of InterEnerStat. This group is made up of 24 international organisations that collect or use energy statistics. One of the objectives of the group is to improve the quality of energy data by harmonising definitions for energy sources and flows. As a result of this meeting, the IEA decided to align its energy statistics and balances with most other international organisations and to treat international aviation bunkers in the same way as international marine bunkers. Starting with the 2009 edition, international aviation bunkers is subtracted out of supply in the same way as international marine bunkers.*

**Row 6:** *Stock changes* reflects the difference between opening stock levels on the first day of the year and closing levels on the last day of the year of stocks on national territory held by producers, importers, energy transformation industries and large consumers. A

stock build is shown as a negative number, and a stock draw as a positive number.

**Row 7:** *Total primary energy supply (TPES)* is made up of *production* (Row 1) + *imports* (Row 2) - *exports* (Row 3) - *international marine bunkers* (Row 4) - *international aviation bunkers* (Row 5) ± *stock changes* (Row 6).

**Row 8:** *Transfers* include interproduct transfers, products transferred and recycled products (e.g. used lubricants which are reprocessed).

**Row 9:** *Statistical differences* includes the sum of the unexplained statistical differences for individual fuels, as they appear in the basic energy statistics. It also includes the statistical differences that arise because of the variety of conversion factors in the coal and oil columns. See introduction to *Energy Statistics of OECD Countries* for further details.

**Row 10:** *Electricity plants* refers to plants which are designed to produce electricity only. If one or more units of the plant is a CHP unit (and the inputs and outputs can not be distinguished on a unit basis) then the whole plant is designated as a CHP plant. Both main activity producer<sup>2</sup> and autoproducer<sup>3</sup> plants are included here. Columns 1 through 8 show the use of primary and secondary fuels for the production of electricity as negative entries. Heat from chemical processes used for electricity generation will appear in Column 10. Gross electricity produced (including power stations' own consumption) appears as a positive quantity in the electricity column. Transformation losses appear in the total column as a negative number.

**Row 11:** *Combined heat and power plants (CHP)*, refers to plants which are designed to produce both heat and electricity, sometimes referred as co-generation power stations. If possible, fuel inputs and electricity/heat outputs are on a unit basis rather than on a plant basis. However, if data are not available on a unit basis, the convention for defining a CHP plant noted above is adopted. Both main activity producer and autoproducer plants are included here. *Note that for autoproducer CHP plants, all fuel inputs to electricity production are taken into account, while only*

2. Main activity producers generate electricity and/or heat for sale to third parties, as their primary activity. They may be privately or publicly owned. Note that the sale need not take place through the public grid.

3. Autoproducer undertakings generate electricity and/or heat, wholly or partly for their own use as an activity which supports their primary activity. They may be privately or publicly owned.

the part of fuel inputs to heat **sold** is shown. Fuel inputs for the production of heat consumed within the autoproducer's establishment are **not** included here but are included with figures for the final consumption of fuels in the appropriate consuming sector.

Columns 1 through 8 show the use of primary and secondary fuels for the production of electricity and heat as negative entries. Total gross electricity produced appears as a positive quantity in the electricity column and heat produced appears as a positive number in the heat column. Transformation losses appear in the total column as a negative number.

**Row 12: Heat plants** refers to plants (including heat pumps and electric boilers) designed to produce heat only, which is sold to a third party under the provisions of a contract. Both main activity producer and autoproducer plants are included here. Heat pumps that are operated within the residential sector where the heat is not sold are not considered a transformation process and are not included here – the electricity consumption appears as residential use.

Columns 1 through 8 show the use of primary and secondary fuels in a heating system that transmits and distributes heat from one or more energy sources to, among others, residential, industrial, and commercial consumers, for space heating, cooking, hot water and industrial processes.

**Row 13: Blast furnaces** contains inputs to and outputs of fuels from blast furnaces. It is often difficult to correctly account for all inputs and outputs in energy transformation industries, and to separate energy that is transformed from energy that is combusted. As a result, in certain cases the data in the total column are positive numbers, indicating a problem in the underlying energy data.

**Row 14: Gas works** contains the inputs to and outputs from plants manufacturing gases for distribution to the public, either directly or after blending with natural gas. The coal column will contain the output of gas works gas minus any inputs of coal and coal products into the gas works. Inputs of oil products or natural gas into the gas works will figure as negative numbers with conversion losses appearing in the total column.

**Row 15: Coke/patent fuel/BKB plants** contains losses in transformation of coal from primary to secondary fuels and from secondary to tertiary fuels (hard coal to coke and patent fuel, lignite to BKB, etc.).

**Row 16: Oil refineries** shows the use of primary energy for the manufacture of finished oil products and

the corresponding output. Thus, the total reflects transformation losses. In certain cases the data in the total column are positive numbers. This can be due either to problems in the primary refinery balance, or to the fact that the IEA uses regional net calorific values for oil products.

**Row 17: Petrochemical plants** covers backflows returned from the petrochemical industry. Note that backflows from oil products that are used for non-energy purposes (i.e. white spirit and lubricants) are not included here, but in non-energy use.

**Row 18: Liquefaction plants** includes diverse liquefaction processes, such as coal liquefaction plants and gas-to-liquid plants.

**Row 19: Other transformation** covers non-specified transformation not shown elsewhere, such as the transformation of primary solid biofuels into charcoal.

**Row 20: Energy industry own use** contains the primary and secondary energy consumed by transformation industries for heating, pumping, traction and lighting purposes [ISIC<sup>4</sup> 05, 06, 19 and 35, Group 091 and Classes 0892 and 0721]. These quantities are shown as negative figures. Included here are, for example, own use of energy in coal mines, own consumption in power plants (which includes net electricity consumed for pumped storage) and energy used for oil and gas extraction.

**Row 21: Losses** includes losses in energy distribution, transmission and transport.

**Row 22: Total final consumption (TFC)** is the sum of consumption by the different end-use sectors. Backflows from the petrochemical industry are not included in final consumption (see Row 17, *petrochemical plants* and Row 52, *of which petrochemical feedstocks*).

**Rows 23-36: Industry consumption** is specified in the following sub-sectors (energy used for transport by industry is not included here but is reported under transport):

*Iron and steel industry* [ISIC Group 241 and Class 2431];

*Chemical and petrochemical industry* [ISIC Divisions 20 and 21] excluding petrochemical feedstocks;

*Non-ferrous metals basic industries* [ISIC Group 242 and Class 2432];

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4. International Standard Industrial Classification of All Economic Activities, Series M, No. 4 / Rev. 4, United Nations, New York, 2008.

*Non-metallic minerals* such as glass, ceramic, cement, etc. [ISIC Division 23];

*Transport equipment* [ISIC Divisions 29 and 30];

*Machinery* comprises fabricated metal products, machinery and equipment other than transport equipment [ISIC Divisions 25 to 28];

*Mining (excluding fuels) and quarrying* [ISIC Divisions 07 and 08 and Group 099];

*Food and tobacco* [ISIC Divisions 10 to 12];

*Paper, pulp and printing* [ISIC Divisions 17 and 18];

*Wood and wood products* (other than pulp and paper) [ISIC Division 16];

*Construction* [ISIC Divisions 41 to 43];

*Textile and leather* [ISIC Divisions 13 to 15];

*Non-specified* (any manufacturing industry not included above) [ISIC Divisions 22, 31 and 32].

Note: Most countries have difficulties supplying an industrial breakdown for all fuels. In these cases, the *non-specified* industry row has been used. Regional aggregates of industrial consumption should therefore be used with caution.

**Rows 37-43:** *Transport* includes all fuels used for transport [ISIC Divisions 49 to 51] except international marine bunkers and international aviation bunkers. It includes transport in industry and covers *domestic aviation, road, rail, pipeline transport, domestic navigation* and *non-specified transport*. Domestic aviation includes deliveries of aviation fuels to aircraft for domestic aviation – commercial, private, agriculture, etc. It includes use for purposes other than flying, e.g. bench testing of engines, but not airline use of fuel for road transport. The domestic/international split should be determined on the basis of departure and landing locations and not by the nationality of the airline. Note that this may include journeys of considerable length between two airports in a country (e.g. San Francisco to Honolulu). For many countries, the split between international aviation and domestic aviation incorrectly allocates fuel use for both domestic and international departures of domestically owned carriers to domestic air. Fuel used for ocean, coastal and inland fishing (included under *fishing*) and military consumption (included in *other non-specified*) are excluded from transport.

**Rows 44-49:** *Other* covers *residential* [ISIC Divisions 97 and 98, although this is only a small part of residential], *commercial and public services* [ISIC

Divisions 33, 36-39, 45-47, 52, 53, 55, 56, 58-66, 68-75, 77-82, 84 (excluding Class 8422), 85-88, 90-96 and 99], *agriculture/forestry* [ISIC Divisions 01 and 02], *fishing* [ISIC Division 03] and *non-specified consumption*. *Non-specified* includes military fuel use for all mobile and stationary consumption (e.g. ships, aircraft, road and energy used in living quarters) regardless of whether the fuel delivered is for the military of that country or for the military of another country. In many cases administrations find it impossible to distinguish energy consumption in *commercial and public services* from *residential* consumption. Some cannot distinguish consumption in *agriculture* from that in *residential*. In these cases, residential will also include consumption in agriculture and/or commercial/public services. The *other* total is, therefore, more accurate than its components.

**Rows 50-54:** *Non-energy use* covers those fuels that are used as raw materials in the different sectors and are not consumed as a fuel or transformed into another fuel. Non-energy use is shown separately in final consumption under the heading *non-energy use*.

Note that for biofuels, only the amounts of biomass specifically used for energy purposes (a small part of the total) are included in the energy statistics. Therefore, the non-energy use of biomass is not taken into consideration and the quantities are null by definition.

*of which: petrochemical feedstocks.* The petrochemical industry includes cracking and reforming processes for the purpose of producing ethylene, propylene, butylene, synthesis gas, aromatics, butadiene and other hydrocarbon-based raw materials in processes such as steam cracking, aromatics plants and steam reforming [part of ISIC Group 201].

**Rows 55-57:** *Electricity generated* shows the total number of TWh generated by thermal power plants separated into electricity plants and CHP plants, as well as production by nuclear and hydro (excluding pumped storage production), geothermal, etc. (see, however, the notes on Rows 10 and 11). Electricity produced by heat from chemical processes is shown in the *heat* column.

**Rows 58-60:** *Heat generated* shows the total number of PJ generated by power plants separated into CHP plants and heat plants. Heat produced by electric boilers is shown in the *electricity* column. Heat produced by heat pumps, heat from chemical processes and heat from non-specified combustible fuels is shown in the *heat* column.



## 2. UNITS AND CONVERSIONS

### General conversion factors for energy

To:	TJ	Gcal	Mtoe	MBtu	GWh
From:	multiply by:				
terajoule (TJ)	1	238.8	$2.388 \times 10^{-5}$	947.8	0.2778
gigacalorie (Gcal)	$4.1868 \times 10^{-3}$	1	$10^{-7}$	3.968	$1.163 \times 10^{-3}$
million tonne of oil equivalent (Mtoe)	$4.1868 \times 10^4$	$10^7$	1	$3.968 \times 10^7$	11630
million British thermal unit (MBtu)	$1.0551 \times 10^{-3}$	0.252	$2.52 \times 10^{-8}$	1	$2.931 \times 10^{-4}$
gigawatt hour (GWh)	3.6	860	$8.6 \times 10^{-5}$	3412	1

### Conversion factors for mass

To:	kg	T	lt	st	lb
From:	multiply by:				
kilogramme (kg)	1	0.001	$9.84 \times 10^{-4}$	$1.102 \times 10^{-3}$	2.2046
tonne (t)	1000	1	0.984	1.1023	2204.6
long ton (lt)	1016	1.016	1	1.120	2240.0
short ton (st)	907.2	0.9072	0.893	1	2000.0
pound (lb)	0.454	$4.54 \times 10^{-4}$	$4.46 \times 10^{-4}$	$5.0 \times 10^{-4}$	1

### Conversion factors for volume

To:	gal U.S.	gal U.K.	bbbl	ft <sup>3</sup>	l	m <sup>3</sup>
From:	multiply by:					
U.S. gallon (gal)	1	0.8327	0.02381	0.1337	3.785	0.0038
U.K. gallon (gal)	1.201	1	0.02859	0.1605	4.546	0.0045
barrel (bbbl)	42.0	34.97	1	5.615	159.0	0.159
cubic foot (ft <sup>3</sup> )	7.48	6.229	0.1781	1	28.3	0.0283
litre (l)	0.2642	0.220	0.0063	0.0353	1	0.001
cubic metre (m <sup>3</sup> )	264.2	220.0	6.289	35.3147	1000.0	1



## Decimal prefixes

10 <sup>1</sup>	deca (da)	10 <sup>-1</sup>	deci (d)
10 <sup>2</sup>	hecto (h)	10 <sup>-2</sup>	centi (c)
10 <sup>3</sup>	kilo (k)	10 <sup>-3</sup>	milli (m)
10 <sup>6</sup>	mega (M)	10 <sup>-6</sup>	micro (μ)
10 <sup>9</sup>	giga (G)	10 <sup>-9</sup>	nano (n)
10 <sup>12</sup>	tera (T)	10 <sup>-12</sup>	pico (p)
10 <sup>15</sup>	peta (P)	10 <sup>-15</sup>	femto (f)
10 <sup>18</sup>	exa (E)	10 <sup>-18</sup>	atto (a)

## Coal

Coal has separate net calorific values for production, imports, exports, inputs to electricity/heat generation and coal used in coke ovens, blast furnaces and industry. For electricity/heat generation, coal inputs to each type of plant (i.e. main activity electricity plant, auto-producer electricity plant, main activity CHP plant, autoproducer CHP plant, main activity heat plant, autoproducer heat plant) are converted to energy units using average factors calculated from the *Annual Electricity Questionnaire*. All other flows are converted using an average net calorific value. Country-specific net calorific values for 2009 are given in Part II.

## Crude oil

Country-specific net calorific values (NCV) for production, imports and exports by country are used to calculate the balances. The average value is used to convert all the other flows to heat values. Country-specific net calorific values for 2009 are given in Part II.

## Gases

*Energy Statistics of OECD Countries* expresses the following gases in terajoules, using their gross calorific value.

1 terajoule = 0.00002388 Mtoe.

To calculate the net heat content of a gas from its gross heat content, multiply the gross heat content by the appropriate following factor.

Gas	Gross to net ratio
Natural gas	0.9
Gas works gas	0.9
Coke oven gas	0.9
Blast furnace gas	1.0
Other recovered gases	1.0

## Biofuels and waste

The heat content of primary solid biofuels, biogases, municipal waste and industrial waste, expressed in terajoules on a net calorific value basis, is presented in *Energy Statistics of OECD Countries*. The Secretariat does not receive information on volumes and other characteristics of these fuels.

1 terajoule = 0.00002388 Mtoe.

Data for charcoal are converted from tonnes using the average net calorific values given in Part II.

Unless country-specific information has been provided, data for biogasoline are converted from tonnes using 26 800 kJ/kg. Biodiesels and other liquid biofuels are assumed to have a net calorific value of 36 800 kJ/kg unless otherwise specified.

## Oil products

The IEA applies regional conversion factors (in conjunction with Eurostat for the European countries) for the oil products.

## Regional net calorific values for oil products

Oil products	Europe	Americas	Asia Oceania
	kJ/kg	kJ/kg	kJ/kg
Refinery gas	49 500	48 100	48 100
Ethane	49 500	49 400	49 400
Liquefied petroleum gases	46 000	47 300	47 700
Motor gasoline	44 000	44 800	44 600
Aviation gasoline	44 000	44 800	44 600
Gasoline type jet fuel	43 000	44 800	44 600
Kerosene type jet fuel	43 000	44 600	44 500
Kerosene	43 000	43 800	42 900
Gas/diesel oil	42 600	42 600	42 600
Fuel oil	40 000	40 200	42 600
Naphtha	44 000	45 000	43 200
White spirit	43 600	43 000	43 000
Lubricants	42 000	42 000	42 900
Bitumen	39 000	40 000	38 800
Paraffin Waxes	40 000		
Petroleum Coke	32 000	32 000	33 800
Non-specified oil products	40 000		

## 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/wave/ocean, photovoltaic, etc.) are accounted for similarly using 1 TWh = 0.086 Mtoe.

The primary energy equivalent of nuclear electricity is calculated from the gross generation by assuming a 33% conversion efficiency, i.e. 1 TWh =  $(0.086 \div 0.33)$  Mtoe.

In the case of electricity produced from geothermal heat, if the actual geothermal efficiency is not known, then the primary equivalent is calculated assuming an efficiency of 10%, so 1 TWh =  $(0.086 \div 0.1)$  Mtoe.

## Heat

Information on heat is supplied in terajoules and 1 terajoule = 0.00002388 Mtoe.

In the case of heat produced in a geothermal plant, if the actual geothermal efficiency is not known, then the

primary equivalent is calculated assuming an efficiency of 50%, so 1 TWh =  $(0.086 \div 0.5)$  Mtoe.

For direct use of geothermal and solar thermal heat, all the heat consumed is accounted for in production and consumption.

## Examples

The following examples indicate how to calculate the net calorific content (in Mtoe) of the quantities expressed in original units in *Energy Statistics of OECD Countries*.

From Original Units	To Mtoe (on a NCV basis)
Coking coal production (Poland) for 2009 in thousand tonnes	divide by 41 868 and then multiply by 29.600
Natural gas in terajoules (gross)	multiply by 0.00002388 and then multiply by 0.9
Motor gasoline (Poland) in thousand tonnes	divide by 41 868 and then multiply by 44.000
Heat in terajoules (net)	multiply by 0.00002388



## 3. COUNTRY NOTES

### General notes

The notes given below refer to data for the years 1960 to 2009 and cover the summary tables at the back of the book, as well as the information on CD-ROM and the on-line data service. In general, more detailed notes are available for data starting in 1990.

Prior to 1974, most fuel inputs and electricity and heat outputs for autoproducers are included in main activity producers. The figures for the quantities of fuels used for the generation of electricity and heat and the corresponding outputs in CHP and heat plants should be used with caution. Despite estimates introduced by the Secretariat, inputs and outputs are not always consistent. Please refer to notes below under *Electricity and Heat*.

In 1996, the IEA Secretariat extensively revised data on coal and coke use in blast furnaces, and in the iron and steel industry (for those countries with blast furnaces), based on data provided to the OECD Steel Committee and other sources. The quantities of fuels transformed into blast furnace gas have been estimated by the IEA Secretariat based on its blast furnace model.

Moreover, in 1996 and 1997, the IEA Secretariat extensively revised data on biofuels and waste (i.e. solid biofuels, biogases, liquid biofuels, industrial waste and municipal waste) based on data from Eurostat (for the EU-15 Member countries) and on other national sources for other OECD Member countries. As consumption data for biofuels and waste from Eurostat are generally available from 1989, there may be breaks in series between 1988 and 1989 for some EU Member countries.

### Australia

All data refer to the fiscal year (e.g. July 2008 to June 2009 for 2009). For the 2002 data, the Australian Administration started to use a new survey methodology which caused shifts in the structure of industry consumption. The Australian Administration is planning to revise the historical series.

**Coal:** Data on blast furnace gas for electricity production by autoproducers begins in 1986. Consumption in wood and wood products is included in paper, pulp and print from 2001 onwards. The drop in BKB production in 2004 was due to a fire in the main production plant.

**Biofuels and Waste:** For biofuels and waste, a different industry consumption breakdown is available from 1996 and leads to breaks in series. Biogas production at sewage treatment works is unavailable.

**Oil:** Negative refinery losses are caused by differences in treatment of transfers between refineries. Imports of fuel oil have been estimated by the Australian Administration. The drop in the production of crude oil in 1999 is due to a gas explosion at the Longford plant.

**Natural Gas:** Prior to 1991, natural gas data include ethane. Data for 1999 and 2000 are estimated by the Australian Administration.

**Electricity and Heat:** Inputs and outputs from auto-producer CHP plants are not available prior to 1986. The production of electricity from wind is available from 1994. Electricity production from solar PV starts in 1992 and from solar thermal in 2003. Efficiencies used to calculate the solar thermal inputs to transformation were chosen by the Australian Administration to be consistent with their national statistics. Prior to 1995, electricity production from biogases is included

in natural gas. Heat data are not available from 1992 onwards. In 2002, the Australian Administration started to use a new survey methodology and reclassified the types of plants between main activity producers and autoproducers.

Prior to 2007, electricity consumption in mining and quarrying includes consumption in liquefaction/regasification plants. From 1990 to 2007, electricity consumption in wood and wood products is included together with paper, pulp and printing.

## Austria

Historical revisions by the Austrian Administration have resulted in some breaks in series between 1989 and 1990.

**Coal:** In the 2011 edition, the Austrian Administration has revised the consumption data for coke oven coke from 1999 and lignite from 2001. Since 1996, gas works gas is reported with natural gas because it is distributed in the same network. The amount of gas works gas is negligible and it is mostly consumed by households. The last lignite mine closed in the second quarter of 2004 and lignite use for power generation ceased in 2006.

**Biofuels and Waste:** Data for 1986 to 1989 for solid biofuels, industrial waste, biogases and liquid biofuels are IEA Secretariat estimates based on information published by OSTAT in *Energieversorgung Österreichs Endgültige Energiebilanz*. Due to a change in the survey methodology, the heat produced in small plants (capacity inferior to 1 MW) is not reported starting in 2002. Prior to 2002, data for biogases only include plants of 1 MW or larger.

**Natural Gas:** The break in the time series for auto-producer electricity and CHP plants between 1995 and 1996 is due to the availability of more detailed data from 1996 onwards. Differences due to measurement are included with losses prior to 2000. There are inconsistencies in the time series for commercial/public services as this sub-sector is the residual of the consumption data. In the 2011 edition, many consumption sub-sectors have been revised back to 1999 as a result of a new methodology.

**Electricity and Heat:** Starting in 1990, small amounts of electricity used in heat pumps have been included in residential. There are breaks in series between 1995 and 1996 and between 1998 and 1999 due to new methods of survey. Heat from chemical processes

used for electricity production is available from 2004. Electricity plants data may include some CHP plants operating in electricity only mode.

Inputs of other oil products to autoproducer CHP plants were reclassified as refinery gas and natural gas in 2009. Revisions to the historical time series are planned by the Austrian Administration. Electricity consumption in oil refineries includes consumption in gas works prior to 1991. Also prior to 1991, electricity consumption in the iron and steel industry includes consumption in coke ovens and blast furnaces. Consumption in commercial/public services includes electricity used in the field of electricity supply, district heating and water supply prior to 1990. Electricity consumption in non-specified transport represents tramways, electric buses, ski lifts and cable cars. For heat, own use is included in losses.

## Belgium

**Coal:** Production of other bituminous coal ceased on 31 August 1992. Production includes the recuperation of coal from coal dumps. The use of coke oven gas in chemical and petrochemical ceased in 1996. The decrease of bituminous coal and coke oven coke in the iron and steel industry in 2002 is due to the closure of several plants.

**Biofuels and Waste:** In 2003, combustion of municipal waste for electricity and heat generation purposes increased significantly. However, because a large portion of the heat produced is not used (sold), plant efficiencies dropped significantly between 2002 and 2003. Data for biodiesels are available starting in 2007. Data for biogasoline are available starting in 2008.

**Oil:** The decrease of fuel oil in industry consumption since 1993 is due to the introduction of an excise tax as well as increased use of natural gas. In 2002, patent fuel plants used fuel oil to increase the calorific value of patent fuel.

**Natural Gas:** The large decrease in non-specified industry in 2003 is due to improvements in data collection. New legislation for data collection has led to breaks in series for industry and energy industry own use between 2004 and 2005, and between 2007 and 2008. In the 2011 edition, gas trade in Belgium includes imported LNG which is regasified and subsequently exported to other countries.

**Electricity and Heat:** For 1998 and 1999, electricity production at CHP plants with annual heat output below 0.5 TJ is reported with electricity only plants. In

2000, most autoproducer electricity plants using combustible fuels were reclassified as autoproducer CHP plants; the heat production from these plants was used for internal industrial processes and not sold to third parties until 2005. Heat from chemical processes used for electricity production is available from 2005.

Breaks in series exist between 1991 and 1992 for heat consumption in chemical and non-specified industry. Breaks in series may exist between 2007 and 2008 due to revisions of NACE classifications. There is no heat consumption starting in 2007 in the iron and steel industry because the installation concerned became an autoproducer in July 2006 and the heat is no longer sold.

## Canada

Revisions received by the Canadian Administration and incorporated into the 2002 edition have resulted in breaks in series between 1989 and 1990.

**Coal:** Due to a Canadian confidentiality law, it is not possible for the Canadian Administration to submit disaggregated series for all of the coal types. Between 2002 and 2006, the IEA Secretariat has estimated some of the missing series. The data for 2007 onwards are given directly as reported. The Canadian Administration is planning to further refine its reporting.

**Biofuels and Waste:** The IEA Secretariat has estimated the data for industrial waste from 1990 to 2007, biogasoline (ethanol) from 1998 to 2004, municipal waste from 1990 to 2004, and landfill gas from 1997 to 2006 based on information supplied by Natural Resources Canada. The IEA Secretariat estimated landfill gas production and consumption for 2007 from information supplied by Environment Canada, Waste Management. Trade of solid biofuels may be included in production or consumption. The Canadian Administration is working on separating out the data and reporting the trade explicitly. For the 2011 edition, the Canadian Administration revised solid biofuels from 1990, amongst others to include wood pellets.

**Oil:** From 1988 onwards, data for several industrial sub-sectors are no longer available. Transfers for naphtha and *other oil products* include purchases of feedstock and other additives from non-reporting companies. Ethane is mainly used as a petrochemical feedstock. Prior to 1990, hydrogen used for the upgrading of synthetic crude oil production was included in natural gas supply; from 1990, a different methodology

was adopted by the Canadian Administration and these amounts are now shown in *other hydrocarbons* (part of crude oil). Canada imported orimulsion from Venezuela from 1994 to 2000.

**Natural Gas:** Starting in 1992, consumption of natural gas in main activity producer CHP plants includes use in three new facilities in the province of Ontario. The data reported in non-specified transformation represent quantities of natural gas used for the upgrading of refined oil products. In 2000, the increase in main activity producer electricity data is due to new generation plants in Alberta and Ontario, while the increase in autoproducer electricity is due to the addition of independent power production.

**Electricity and Heat:** Heat production includes heat produced by nuclear power stations for distribution to other consumers. The breakdown of electricity and heat generation between natural gas and oil products in main activity producer CHP plants has been estimated by the Canadian Administration starting in 1990. This may cause breaks in the time series between 1989 and 1990. In the 2010 edition, the Canadian Administration revised the heat consumption data, causing statistical differences; revisions to production are pending.

## Chile

Data are available starting in 1971.

From 1990, consumption in paper and pulp includes forestry and consumption in agriculture is included in non-specified industry. In general, a new methodology has been applied for data since 1990, leading to other breaks in series between 1989 and 1990.

**Biofuels and Waste:** Production of landfill gas ceased in 2001 as landfill sites stopped producing adequate gas to continue collection.

**Oil:** There are breaks in series between 2008 and 2009 due to a change in methodology by the Chilean Administration.

**Natural Gas:** Inputs of natural gas to autoproducer CHP plants in 2009 are estimated by the Chilean Administration based on electricity generation. In previous years these inputs are included in autoproducer electricity. Data for gas inputs to oil refineries are not available for 2008 and 2009.

**Electricity and Heat:** The split of electricity generation by main activity and autoproducer and by fuel was estimated by the Chilean Administration for 1990 to 2003.

Electricity production includes production from a conveyor belt transporting crushed rock from high altitude to lower altitude in a mine as well as waste heat.

## Czech Republic

Data are available starting in 1971.

**Coal:** Final consumption data were submitted by the Czech Administration starting with 1996 data. Due to economic restructuring in consumption in the late 1990s (big state enterprises subdividing and/or privatising and the utilisation of new technologies by businesses), there might be breaks in time series in these sectors. Data for 1990 to 1995 were estimated based on the Czech publication *Energy Economy Year Book*. In 1995, town gas production ceased. Beginning in 1996, the Czech Administration reported gas works gas in autoproducer CHP. In 1997, coke oven gas consumption in chemical and petrochemical stopped. Revisions by the Czech Administration have resulted in some breaks in series between 2001 and 2002. Production of other bituminous coal in 2004 includes coal from coal slurries.

**Biofuels and Waste:** Data for solid biofuels are not available prior to 1990. The restructuring of the Czech electricity market leads to breaks in the time series in all sectors between 1998 and 1999. Data for liquid biofuels are available starting in 1992 and for municipal waste starting in 1999. New survey systems cause breaks in final consumption in 1999 and in 2002. Breaks in both supply and consumption of biofuels and waste occur again in 2003. The exports of biodiesels increased in 2005 driven by high prices. In the 2011 edition, the Czech Administration revised the residential data for 1992 to 2002 for solid biofuels.

**Oil:** Data prior to 1994 are estimated by the IEA Secretariat. The Czech Administration submitted an Oil Questionnaire to the IEA for the first time with 1994 data. Breaks in series between 1998 and 1999 for the final consumption of gas/diesel oil are due to a new data management system implemented by the Czech Administration.

**Natural Gas:** Data from 1993 onwards have been officially submitted by the Czech Statistical Office. The breaks in series between 1993 and 1994 are due to a change in the energy balance methodology between former Czechoslovakia and the Czech Republic. Prior to 1994, data in transport are for former Czechoslovakia.

Natural gas inputs into gas works ceased in 1996. From 2008, hydrogen production is reported in petrochemical feedstocks as non-energy use.

**Electricity and Heat:** Electricity statistics from 1971 to 1989 have been estimated by the IEA Secretariat except for final consumption and trade which were submitted by the Czech Administration. Data on heat production, and the corresponding fuel inputs, have been estimated from 1980 to 1989 based on consumption in residential and commercial/public services. Prior to that, inputs are included in industry. Data from 1990 onwards have been officially submitted by the Czech Administration. This may lead to breaks in series between 1989 and 1990. Prior to 1990, electricity production in main activity producer CHP and autoproducer CHP plants is included in main activity producer electricity plants. Heat production prior to 1990 excludes heat sold by industry. In addition, heat production prior to 1990 is reported under main activity heat plants because the breakdown by producer and plant type is not available before then. The amount of heat reported under *other sources* is waste heat from the glass industry. In 1999 and 2000, various big enterprises have been divided, sold and merged. This causes breaks in the time series of all types of plants. The new reporting methodology used by the Czech Administration for biofuels and wastes causes some breaks in time series between 2002 and 2003.

## Denmark

In the 2004 edition, major revisions were made by the Danish Administration for the 1990 to 2001 data, which may cause breaks in time series between 1989 and 1990.

**Biofuels and Waste:** The number of heating companies burning wood chips that are equipped with boilers with flue-gas condensation is increasing. This implies a very high efficiency of heat plants.

**Oil:** Information on waste oil recycling and final consumption begins in 1989 and is reported in *other oil products*. Prior to 1990, Greenland and the Danish Faroes are included in the oil data. Also prior to 1990, gas/diesel oil consumption and fuel oil consumption for fishing are included in domestic navigation, while after this date they are reported in agriculture. Consumption data are based on a detailed survey sent to companies in Denmark every other year. For non-survey years, the consumption figures are estimated by the Danish Energy Agency. Due to better survey

methods, inputs to electricity and heat generation have been reclassified, causing a break in series between 1993 and 1994. The marked increase in inputs of fuel oil to CHP production in 1994 is due to increased electricity exports to Norway. Industry detail for 1994 and 1995 is based on a new survey. Orimulsion imports (used for electricity generation) began in 1995 and ceased in 2003. The oil inputs used in industrial sub-sectors for producing surplus heat, which is delivered to district heating networks, are allocated to these industrial sub-sectors.

**Electricity and Heat:** From 1984 onwards, small amounts of heat have been imported from Germany. Heat produced for sale by heat pumps starts in 1994. Prior to 1994 the electricity and heat production are estimated based on fuel inputs. The amount of heat reported under *other sources* is heat recovered from industrial processes and sold for district heating.

In the 2011 edition, the Danish Administration revised heat production data, resulting in statistical differences. Revisions to consumption are pending.

## Estonia

Data for Estonia are available starting in 1990. Prior to that, they are included in Former Soviet Union in *Energy Balances of Non-OECD Countries*.

**Oil:** For the years 1990 to 2007, oil data are based on direct communication with Statistics Estonia and UN ECE.

**Natural Gas:** In 2009, Estonia's main producer of fertilisers ceased activity, resulting in a sharp decrease in the non-energy use of natural gas.

**Electricity and Heat:** Data reported under lignite are for oil shale. Inputs of residual fuel oil and gas works gas to transformation processes include shale oil.

## Finland

A new survey system and a reclassification of the data lead to breaks in the time series between 1999 and 2000 for most products and sectors. The new survey system is more detailed and has better product coverage, especially in electricity, CHP and heat production, as well as in industry.

**Coal:** The first coking plant started operation in 1987, hence imports of coking coal and production of coke oven coke and coke oven gas started in that year. Coal

tars used for non-energy purposes are not reported in production or consumption. The increase of other bituminous coal inputs into main activity producer electricity plants from 1993 to 1994 was due to coal replacing imported electricity and hydro power. Production of gas works gas ceased in April 1994.

**Biofuels and Waste:** Data for biogases and industrial waste are available from 1996. Prior to 2004, industrial waste also included other energy forms such as hydrogen, heat from chemical processes, natural gas and blast furnace gas. The Finnish National Administration is working on harmonising biofuels and waste data for the years 2004 to 2008.

**Oil:** In 1995, there is a break in series for oil products trade due to the aligning of the National Board of Customs trade data collection system with the European Union's Intrastat system. Due to a new calculation model, there is a break in fuel oil *other* consumption between 1998 and 1999.

**Natural Gas:** Prior to 1989, natural gas consumption in residential and agriculture/forestry has been estimated by the Finnish Administration. Due to a new system of data collection, the breakdown between residential and commercial/public services is available since 1995.

**Electricity and Heat:** Electricity and heat production from biogases are available from 1996. Heat output from autoproducer CHP plants is available starting in 1996 and from autoproducer heat plants starting in 2000. Heat from chemical processes and associated electricity generation are available from 2004. The decrease in electricity production in 2005 is mainly due to lower generation from coal and peat, which was offset by increased electricity imports from Sweden. The increasing heat production from heat pumps in 2007 and 2008 is from the new Katri Vala heating and cooling plant. Prior to 2009, electricity and heat production *from other sources* includes production from hydrogen, purchased steam from industry and waste heat. From 2009 onwards, *other sources* includes only hydrogen and purchased steam.

Consumption of electricity in non-specified transport corresponds to use for urban transport systems. Consumption of heat in residential includes consumption in agriculture/forestry and commercial/public services.

## France

**Coal:** For 1989 to 1998, the IEA Secretariat has estimated industry consumption based on *Consommations d'Énergie dans l'Industrie*, SESSI.



**Biofuels and Waste:** Plants using municipal waste were reclassified as autoproducer CHP plants from 1995, which leads to a break in series. The breakdown of the final energy consumption of biogases was estimated by the French Administration from 1970 to 2003. In the 2011 edition, data for solid biofuels and biogases were revised from 2005.

**Oil:** Additives and oxygenates data are available from 1991. From 1998, imported oil products needing further refinery processing are no longer reported as refinery feedstock imports but as oil product imports and products transferred. The consumption of kerosene type jet fuel includes military use as of 1998. Starting in 2000, data for non-ferrous metals are included in non-specified industry for petroleum coke.

**Natural Gas:** From 1990 to 1998, the statistical difference includes gas consumption that is not broken down by sector. From 1999 onwards, a new methodology was used for preparing the natural gas balances which leads to breaks in series between 1999 and 2000. Gas for pipelines is included in losses. There is a break in series in the industry sub-sectors between 2005 and 2006. Improvements in data collection lead to some breaks in series between 2008 and 2009.

**Electricity and Heat:** Electricity production from wind is available from 1993. From 1995, due to a change in the economic activity classification, data have been reported in *other non-specified*. A new method of survey and a reclassification between main activity producer electricity plants and autoproducer electricity plants may cause breaks in the series for other bituminous coal between 1998 and 1999. From 2000 to 2008, there are further classification problems for inputs and output of electricity and heat from oil. The French Administration is working to reconcile their data collection methods for the inputs and the outputs for electricity generation. Due to a new survey, in the 2007 edition the French Administration revised the data back to 2000 and included heat produced from fossil fuels in CHP plants. Data for heat produced from fossil fuels in heat only plants are not available. Unfortunately it is not possible to separate out the amount of heat not sold in autoproducer plants so these amounts have been included. However, no double counting occurs since the corresponding inputs have not been included in final consumption. In 2005, autoproducer CHP efficiencies for other biogases drop due to the opening of a larger, less efficient plant.

Consumption of electricity for oil and gas extraction includes that used in oil refineries from 1988 to 2000. *Other non-specified* consumption includes exports to Monaco prior to 1992.

## Germany

German data include the new federal states of Germany from 1970 onwards.

The Germany Administration has changed the methodology for reporting heat. From 2007 onwards all heat production in autoproducers is considered as non-sold (i.e. for self-use); inputs for this heat production are, therefore, no longer reported in transformation processes. Moreover, more information on district heat has become available, and inputs are now reported for this category. This causes breaks in series between 2006 and 2007. A different methodology for accounting for autoproducer heat was used for 2003 to 2006 which is apparent in both the inputs to transformation and the heat output.

**Coal:** Due to reclassification of several sectors by the German Administration, breaks in series may occur between 1990 and 1992; this particularly affects BKB, lignite and coke oven coke. BKB inputs to gas works plants stopped in 1997. Breaks in series may occur between 1998 and 1999 for coke oven gas and blast furnace gas. Breaks in the series for coke oven gas from 2007 are due to a change in statistical source. Consumption of non-renewable municipal waste and other solid biofuels as a reductant occurs in German blast furnaces, but is not currently quantified. Likewise, coal tar is a by-product of coke ovens, but not currently reported.

**Biofuels and Waste:** A new survey for renewables causes breaks in the time series between 1998 and 1999. The German Administration submitted an incomplete annual questionnaire on renewables and waste for the years 2001 and 2002. As a consequence, the IEA Secretariat estimated the missing data based on statistics published by the Federal Environment Ministry and data submitted in the Electricity and Heat Questionnaire. Where estimation was impossible due to lack of information, the data from the previous year were used. A new reporting system leads to break in series between 2002 and 2003. The German Administration is undertaking the reconciliation of historical data. Total final consumption of biofuels and waste by sector became available in 2007.

**Oil:** Beginning with 1994, final consumption by individual sector has been improved due to new survey methods instituted by the Minerölwirtschaftsverband. In 1995, a break in gas/diesel oil consumption occurs as a result of an alignment with the Classification of the Economic Activities in the European Community

(NACE). Breaks in series in consumption data between 2002 and 2004 are due to structural changes in energy statistics following the newly introduced Energy Statistics Law.

**Natural Gas:** Prior to 1995, inputs of natural gas for main activity producer heat are included with main activity producer CHP. Also prior to 1995, final consumption data are based on *Arbeitsgemeinschaft Energiebilanzen*. From 1995 onwards, the industry sub-sector breakdown is based on the new 1995 NACE classification. This leads to a number of breaks in series between 1994 and 1995. In 2003, there is a break in series for electricity and CHP plants (both autoproducers and main activity producers). From 2003 onwards, own use of gas in coke ovens was negligible. There are no official data for construction from 2004 onwards.

**Electricity and Heat:** Data should be used with caution since numerous breaks in series occur from 1998 onwards. The German Administration started reporting near the surface geothermal energy in 1995, which leads to a break in series with 1994, where only deep geothermal energy is reported. From 1999 onwards, small amounts of electricity generation that are not accounted for in the data submission have been attributed to various combustible fuels. In some instances, electricity generation from nuclear, hydro, solar and wind in autoproducer electricity plants is confidential or not available and therefore is included in main activity producer electricity plants. For 2002 and 2003, the German Administration did not submit the breakdown of electricity and heat production from combustible fuels. The data were estimated as follows: renewables and waste were taken from the Renewables and Waste Questionnaire and the other combustible fuels were estimated pro rata based on 2001 estimates. Electricity production in electricity plants includes production from CHP plants prior to 2003. Due to the implementation of the Energy Statistics Act, collection concerning heat produced in heat plants and district heating plants became more efficient and more complete. This leads to breaks in series between 2002 and 2003 and between 2003 and 2004. Prior to 1993, all heat production from BKB/peat briquettes is included in main activity producer CHP plants. Detailed data by fuel are not available for total heat production. The non-allocated part is reported as heat production from non-specified combustible fuels. In 2007, many main activity CHP plants that burn biofuels and waste were reclassified as electricity only which result in breaks in the time series between 2006 and 2007. Electricity production

from *other sources* is available starting in 2009. This refers to the production of electricity from turbines which are located at pressure drops in fluid transport and from purchased waste heat.

The German Federal Statistics Office reclassified some industrial branches which may cause a break in series in industry sub-sectors between 1994 and 1995. Revisions from the German Administration to the electricity consumption data may cause breaks in the time series between 1999 and 2000. The breakdown of heat consumption is not available from 2003 to 2006. The data for that period were estimated as follows: the transformation processes and losses were estimated based on previous years, the heat produced by autoproducers was included in non-specified industry, and the remaining consumption included in *other non-specified*.

## Greece

**Coal:** Production of gas works gas ceased in 1997. Lignite is used in main activity producer CHP plants since 1997. Production of BKB/peat briquettes ceased in 2009.

**Biofuels and Waste:** Solid biofuel consumption in commercial/public services is included in residential. Data for biogases are available from 1990 and data for industrial waste from 1992. New information on solid biofuels is available from 1996 and leads to breaks between 1995 and 1996. Inputs of solid biofuels to charcoal production are estimated by the IEA Secretariat assuming an efficiency of 40%.

**Oil:** Data on feedstocks for cracking in refineries are available from 1986. Crude oil production stopped on 30 November 1998 and started again in December 1999.

**Natural Gas:** Natural gas produced in Greece has a higher than average gross calorific value due to a high content of C<sub>2</sub>/C<sub>4</sub> hydrocarbons. In 1997, a new pipeline between Russia and Greece became operational. In 1998, consumption in residential is included with commercial/public services. Production of natural gas stopped on 30 November 1998 and started again in December 1999.

**Electricity and Heat:** A break in series exists between 1991 and 1992 for electricity consumption in transport. Data on biofuels and waste are available from 1992. Production and consumption of distributed heat

(heat sold) that is produced from lignite is available from 1997.

Direct use of geothermal heat in residential is available starting in 2004.

## Hungary

Data are available starting in 1965.

**Coal:** Due to sale of an autoproducer power plant, breaks in series occur for coke oven gas and blast furnace gas between 1997 and 1998.

**Biofuels and Waste:** Data for biogases are available from 2000.

**Oil:** The Hungarian Administration submitted questionnaires to the IEA Secretariat for the first time with 1993 data. Data for additives and aviation gasoline are available starting from 1998.

**Natural Gas:** Due to a new methodology, some breaks in series exist between 1996 and 1997. From 1997, two autoproducer heat plants have been reclassified to main activity producer heat plants. Prior to 2004, iron and steel consumption includes transformation of natural gas in blast furnaces.

**Electricity and Heat:** The revision of heat production data to conform to IEA reporting methodologies may result in a mismatch of fuel inputs with electricity and heat outputs by plant type, which could cause high efficiencies. Electricity and heat production from solid biofuels in autoproducer CHP plants is available from 1995. Geothermal heat production from main activity producer heat plants is also available from 1995. The Hungarian Administration reclassified some of their plants for 1996 and 2000 which may lead to breaks in the time series.

Direct use of geothermal heat is available from 1990. Direct use of solar thermal heat is available from 2001.

## Iceland

**Coal:** Final consumption increased in 2000 due to a new iron and steel plant coming on-line. Coal data for 2008 and 2009 are estimated by the IEA Secretariat.

**Biofuels and Waste:** The use of municipal waste to produce heat is available from 1993.

**Oil:** Oil supply and consumption data for 2008 and 2009 are estimated by the IEA Secretariat.

**Electricity and Heat:** Electricity production from geothermal sources in main activity producer CHP plants is available from 1992. Heat production from municipal waste is available from 1993. In 1998, 60 MW of generating capacity was installed in the geothermal CHP plant at Nesjavellir. Since the plant was inoperable for four months, production of geothermal heat decreased compared to 1997. The extra electricity capacity caused electricity production from geothermal to almost double over the same period. In 2002, the increase of heat produced by geothermal was due to the installation of a third unit at the Nesjavellir CHP power plant. The increase in hydro and geothermal electricity production from 2007 is due to the expansion of the aluminium industry.

Energy industry own use of electricity refers mainly to the use of electricity by the geothermal industry to pump geothermal water from underground sources. The consumption of electricity reported in *other non-specified* corresponds to a NATO base at Keflavik airport which closed in 2005. The increase of electricity consumption in construction from 2004 to 2007 is due to the drilling of tunnels for the Kárahnjúkar power plant. Starting in 2007, the Icelandic Administration decided not to estimate the allocation of geothermal consumption amongst the sub-sectors of industry as they had done from 1999 to 2006 and instead reported all industry consumption under non-specified industry. Prior to 2008, all heat for space heating was reported in residential. From 2008 a portion is estimated to be consumed in commercial and public services.

## Ireland

**Coal:** The production of gas works gas ceased in 1987 due to fuel switching to natural gas. Other bituminous coal inputs to main activity producer electricity plants increased from 1986 due to three new generating units at Moneypoint coming on-line. A reclassification causes a break in the series for peat consumption in the energy industry own use in BKB plants from 1989 to 1990. Patent fuel data from 2007 are confidential.

**Biofuels and Waste:** Data for solid biofuels and biogases are available from 1990. Data for municipal waste are available from 2009. In 2009, production and trade of biogasoline and biodiesels cannot be distinguished due to confidentiality issues.

**Oil:** Consumption in commercial/public services includes quantities used by state-owned agricultural companies. Consumption data collected for 1993 are

based on a detailed survey. Data for historical years back to 1990 were revised by the National Administration based on the results of this survey. Owing to these revisions, breaks in series exist between 1989 and 1990 in the detailed consumption data for LPG, kerosene, gas/diesel oil and fuel oil. There is a break in series between 2006 and 2007 for white spirit, lubricants, bitumen and paraffin waxes and between 2008 and 2009 for LPG, kerosene type jet fuel, gas/diesel oil and petroleum coke, due to a new methodology being applied to sectoral demand by Sustainable Energy Ireland (SEI).

**Natural Gas:** The large increase in imports since 1996 is due to the depletion of the Kinsale gas field and the availability of a new pipeline system to the United Kingdom. The decrease in natural gas consumption in the iron and steel industry from 2001 onwards is due to the shutdown of Ireland's main steel plant. Feedstock use in the petrochemical industry stopped in 2003, due to the shutdown of a fertiliser plant.

**Electricity and Heat:** Electricity production from wind begins in 1992.

Direct use of solar thermal heat is available from 1990.

The decrease of electricity consumption in the iron and steel industry from 2001 onwards is due to the fact that the main steel plant in Ireland ceased production. In accordance with ISIC definitions, electricity used for urban transport has been included in non-specified transport. The increase in 2004 is due to the new light rail transit system in Dublin.

## Israel

Data are available starting in 1971.

**Coal:** Data for oil shale are included with lignite.

**Biofuels and Waste:** For 2009, other liquid biofuel and municipal waste inputs to transformation are estimated by the IEA Secretariat.

**Oil:** From 2007 to 2009, oil data are estimated by the IEA Secretariat based on information from the Ministry of National Infrastructures.

**Natural Gas:** Imports of natural gas began in 2008.

**Electricity and Heat:** Electricity production from wind begins in 2001. Data on the breakdown of hydroelectric plants are available from 2008. For 2009, solar photovoltaic electricity generation is estimated.

## Italy

In the 2011 edition, industry and transformation data were revised for 2004 to 2007 according to the same methodology as used in 2008 and 2009. This leads to breaks in series between 2003 and 2004.

**Coal:** From 1986 onwards, figures from lignite are given using the same methodology as in the *Bilancio Energetico Nazionale*. In 1991, all industrial activities were reclassified on the basis of ISTAT/NACE 91. This has implied some transfers of activities which may result in some anomalies between 1991 and earlier years. Due to a change in the survey system, breaks in series may occur between 1997 and 1998 for final consumption.

**Biofuels and Waste:** Data for biofuels and waste were reclassified in 2008, which result in several breaks in the time series for transformation. Data collection for wood and other solid biofuels consumption by sector was improved in 2008.

**Oil:** Inputs to electricity and heat generation have been estimated by the IEA Secretariat for the years 1984 to 1997 based on submissions of the Electricity and Heat Questionnaire. All other data for the years 1992 to 1997 and the detailed consumption breakdown for other years have been estimated by the IEA Secretariat based on *Bilancio Energetico Nazionale*. Due to new surveys, breaks appear in the consumption series between 1998 and 1999. For gas/diesel oil, non-specified use is included in commercial/public services. In the 2010 edition, the split between international marine bunkers and domestic navigation was revised from 1996 for fuel oil and from 1999 for gas/diesel due to a new survey, causing a break in series in these years. For LPG, a new disaggregation between residential and commercial/public services has been applied starting in 2005. From 2009 onwards, transfers of lubricants could not be disaggregated from refinery output data, which results in increased production of non-specified oil products.

**Natural Gas:** The production of gas works gas from natural gas ceased in 1996. Prior to 2008, inputs of natural gas for useful heat production in industry are reported in final consumption. Except for liquefaction plants, data in energy industry own use are estimated and include statistical differences and *other non-specified* consumption.

**Electricity and Heat:** From 2000 onwards, the Italian Administration defines electricity and heat production

from autoproducers as generation from producers that consume more than 70% of their own electricity production. However, for the 2000 to 2002 period, all electricity production from autoproducers is reported with main activity producers. The production of electricity reported in the category *other fuel sources* refers to electricity produced from turbines which are located at pressure drops in fluid transport. Heat production is reported starting in 2004 and includes self-generation in industry.

The breakdown of heat consumption by sector has been estimated by the Italian Administration.

The methodology of data collection for photovoltaic electricity production changed in 2009 and the distinction between main activity and autoproducer plants could not be determined, causing a break in the time series. The Italian Administration plans to revise the photovoltaic electricity time series for the next cycle.

## Japan

Between 2004 and 2007, the IEA received a series of revisions from the Japanese Administration. The first set of revisions received in 2004 increased the 1990 supply by 5% for coal, 2% for natural gas and 0.7% for oil compared to the previous data. This led to an increase of 2.5% in 1990 CO<sub>2</sub> emissions calculated using the Reference Approach while the Sectoral Approach remained fairly constant. For the 2006 edition, the IEA received revisions to the coal and oil data which had a significant impact on both the energy data and the CO<sub>2</sub> emissions. The most significant revisions occurred for coke oven coke, naphtha, blast furnace gas and petroleum coke. These revisions affected consumption rather than supply in the years concerned. As a result, the Sectoral Approach CO<sub>2</sub> emissions increased for all the years, however at different rates. For example, the Sectoral Approach CO<sub>2</sub> emissions for 1990 were 4.6% higher than those calculated for the 2005 edition while the 2003 emissions were 1.1% higher than those of the previous edition. Due to the impact these successive revisions have had on the final energy balance as well as on CO<sub>2</sub> emissions, the IEA was in close contact with the Japanese Administration to better understand the reasons behind these changes. These changes were mainly due to the Government of Japan's efforts to improve the input-output balances in the production of oil products and coal products in response to inquiries from the UNFCCC Secretariat. To cope with this issue, the Japanese Administration established a working group

in March 2004. The working group completed its work in April 2006. Many of its conclusions were incorporated in the 2006 edition but some further revisions to the time series (especially in industry and *other*) were submitted for the 2007 edition.

Starting in 1990, data are reported on a fiscal year basis (e.g. April 2009 to March 2010 for 2009).

**Coal:** The inputs of coke oven coke to blast furnaces as well as the final consumption of coke oven coke in iron and steel have been estimated by the IEA Secretariat starting in 1990. From 1998, inputs of coke oven gas, blast furnace gas and oxygen steel furnace gas into autoproducer electricity plants include the amount used to produce electricity with TRT technology (Top pressure Recovery Turbines) which was previously included in industry. Statistical differences in hard coal since 2004 are primarily due to a stock build by final consumers.

**Biofuels and Waste:** Inputs of solid biofuels to charcoal production are estimated by the IEA Secretariat assuming an efficiency of 40%. Stock changes in industrial waste represent stocked tires on the consumer side reserved for energy production.

**Oil:** Orimulsion imports for electricity generation begin in 1991.

**Electricity and Heat:** Data for the entire time series refer to fiscal year. Electricity and heat produced in CHP plants are not included in the data series. Data on heat produced for sale by autoproducer heat plants are not available. Heat production from geothermal and solar thermal sources in Japan is not reported by the Japanese Administration. Production of electricity from wind began in 1993. Production of electricity from solar photovoltaic and wind in autoproducer plants is understated as it covers only plants with capacity higher than 1 000 kW. The IEA Secretariat estimated the photovoltaic (PV) electricity generation from autoproducers starting in 1992 based on an average capacity factor of 12% and capacity data for autoproducers. Autoproducer PV capacity is derived from data from the Japanese Administration as well as the IEA Photovoltaic Power Systems Programme (IEA-PVPS) report, "Trends in Photovoltaic Applications" published in 2010. The capacity factor was based on the report "National survey report of PV Power Applications in Japan 2009", published in 2010 by IEA-PVPS. The corresponding electricity consumption has been included with *other non-specified* consumption. Prior to 1998, the electricity produced using TRT technology (Top pressure Recovery Turbines) was included with

electricity generated from solid biofuels. Starting in 1998, it is included with electricity generated from coal gases. Electricity consumption in urban transport systems is included with rail.

## Korea

Data are available starting in 1971. Data for 2002 onwards have been reported on a different basis, causing breaks in series between 2001 and 2002, especially for inputs and outputs to electricity generation and consumption in the iron and steel industry. The Korean Administration is planning to revise the historical series as time and resources permit.

**Coal:** Data for coal and coal products from 1971 to 2001 are based on information provided by the Korean Administration, as well as information from the *Yearbook of Energy Statistics 2002*, the *Yearbook of Coal Statistics 2001* (both from the Ministry of Commerce, Industry and Energy), and *Statistics of Electric Power in Korea 2001* (from the Korea Electric Power Corporation). Data on sub-bituminous coal were estimated by the IEA Secretariat based on statistics of the exporting countries. Consumption of imported coke oven coke starting in 2002 is reported under non-specified industry. Consumption of manufactured gases in the iron and steel industry starting in 2002 includes the consumption in blast furnaces, oxygen steel furnaces and other iron and steel processing plants. Blast furnace gas used for energy purposes in blast furnaces prior to 2007 are reported in the iron and steel industry. Coal tar production prior to 2007 is not available at this time.

**Biofuels and Waste:** In 2007, some main activity heat plants and autoproducers in the commercial/public services sector were reclassified as main activity CHP plants which cause a break in the time series between 2006 and 2007 for biogases.

**Oil:** Except for naphtha, inputs of oil products to autoproducer electricity and autoproducer CHP are included with final consumption.

**Natural Gas:** Prior to 2007, consumption of natural gas in machinery was included with transport equipment. There are breaks in series in industry sub-sectors in 2008 due to a new classification. Energy industry own use in liquefaction plants includes losses and measuring errors.

**Electricity and Heat:** Electricity statistics from 1971 to 1993 have been estimated by the IEA Secretariat based on the Korean National Statistics. Data from

1994 have been submitted by the Korean Administration. This leads to breaks in series between 1993 and 1994. Before 1994, electricity production from main activity producer CHP plants is included with main activity producer electricity only plants. Heat data are available starting in 1993. For 1993 to 1999, the breakdown of heat output by type of fuel has been estimated by the IEA Secretariat. In 2000, the Korean Administration started to report heat statistics for some heat plants which were not reported before. Electricity and heat production by autoproducers using natural gas and liquid fuels are available from 2000. Electricity production using heat from chemical processes in copper and zinc plants is available from 2005. The corresponding heat inputs are estimated. Heat from chemical processes that is sold is available from 2008. Electricity generation reported under *other sources* is from fuel cells. Prior to 2009, autoproducer heat production includes amounts of unsold heat.

Prior to 2007, production and consumption of electricity and heat in oil refineries and LNG liquefaction/regasification plants are included in industry. Prior to 2008, sales of electricity by Korea's main electricity distributor, KEPCO, to the non-ferrous metals sector are included in iron and steel consumption.

Direct use of geothermal heat is available from 2002. Geothermal direct use is overstated as it refers to heat production by geothermal heat pumps, which include inputs of electricity and/or gas in the transformation process.

## Luxembourg

**Coal:** Steel production from blast furnaces ceased at the end of 1997. For the 2011 edition, the Luxembourgian Administration revised the time series from 2000 for most coal and coal products. Time series for brown coal briquettes consumption were revised from 1990.

**Biofuels and Waste:** Data on solid biofuels are available from 1992. For the 2011 edition, the Luxembourgian Administration revised the time series for municipal waste from 1990, biogases from 1998 and solid biofuels from 1999.

**Oil:** For the 2011 edition, data for gas/diesel oil were revised from 1999.

**Natural Gas:** Prior to 2000, residential consumption includes consumption in commercial/public services and agriculture/forestry. The large increase of gas

consumption in transformation from 2002 onwards is due to a new 350-MW combined cycle power plant. In the 2011 edition, data from 2000 to 2008 were revised according to a new methodology, leading to a more detailed breakdown in final consumption sub-sectors. From 2000, consumption in the non-ferrous metals sub-sector is included in iron and steel for reasons of confidentiality.

**Electricity and Heat:** Most of the hydro production shown for Luxembourg is from the Vianden pumped storage plant and is exported directly to Germany. Electricity from natural gas for autoproducer CHP plants are available starting in 1995 and for main activity CHP plants starting in 1996. The iron and steel industry stopped production of electricity at the end of 1997. Electricity and heat production from biogases are available from 1999. Data for solar thermal are available starting in 2001 and for solar PV starting in 2003. The increase in electricity production in 2002 is due to a new natural gas combined cycle power plant. In the 2011 edition, heat production from natural gas in autoproducer CHP plants was removed because it was discovered the heat was not sold.

The breakdown of electricity consumption in industry is not available from 1990 to 1999. Heat consumption from 2000 to 2009 was estimated by the IEA Secretariat.

## Mexico

Data are available starting in 1971 and are partly estimated based on the publication *Balance Nacional-Energía*. The Mexican Administration submitted data directly by questionnaire for the first time with 1992 data. As a result, some breaks in series may occur between 1991 and 1992. In the 2011 edition, the Mexican Administration revised selected historical data.

**Coal:** The time series for blast furnace gas and inputs of coke oven coke to blast furnaces start in 1991.

**Biofuels and Waste:** Data on biogases are available from 1997. Data for solid biofuels used in autoproducer electricity plants from 1991 to 2005 have been estimated by the Mexican Administration.

**Oil:** Prior to 1987, the split of LPG consumption between residential and commercial/public services has been estimated by the IEA Secretariat. Inputs of oil for autoproducer electricity and heat generation have been included in industry. Consumption of lubricants, bitumen and paraffin waxes are available from 1990 and petroleum coke from 1993. Because of a change in the processing of the data, breaks in series occur between 1998 and 1999.

**Natural Gas:** Natural gas reported in the IEA publications may be different from what is reported in the Mexican energy publications, as IEA includes only dry gas and excludes natural gas liquids. Losses and pipeline transport have been included in energy industry own use. Beginning with 1993, data have been submitted by the “Secretaria de Energía”.

**Electricity and Heat:** Electricity production from wind and solar photovoltaic is available from 1990. Electricity production from biofuels and waste is available from 1998. New autoproducer electricity plants fuelled with coal gases were put on-line in 1999. Prior to 1996, gas/diesel oil inputs to autoproducer electricity plants is comprised only of diesel.

Direct use of solar thermal heat is available from 1990.

Some electricity consumption in energy industry own use is included in the industry sub-sector where it was generated (e.g. the chemical industry, as well as in non-specified industry).

## Netherlands

In the national statistical system of the Netherlands, use of fuel in manufacturing industries for CHP production is considered to be consumption in transformation. However, in IEA statistics, this own use for heat production (autoproduced heat) is reported under the relevant industry sub-sector, based on estimates provided by the Central Bureau of Statistics.

**Coal:** Paper, pulp and print includes furniture.

**Biofuels and Waste:** In 2006, for municipal waste some plants changed ownership and were reclassified from electricity only to CHP plants as they started heat projects.

**Oil:** Refinery gas inputs to main activity producer CHP plants begin in 1995. Some breaks in series occur in 2007 when the Dutch Administration has started to report the petrochemical industry according to IEA methodology.

**Natural Gas:** All heat plants were converted to CHP plants in 1990. Consumption in commercial/public services includes *other non-specified* consumption starting in 1988. In 2008, a new autoproducer CHP plant came on-stream, accounting for the large consumption increases in that year. In 2009, the increase in main activity electricity is due to the opening of a new plant in the second half of 2008. The decrease in autoproducer electricity is a result of companies

changing their installations from electricity only plants to CHP.

**Electricity and Heat:** Electricity from *other sources* represents generation from the expansion of gases. Heat in non-specified transformation represents waste heat bought from other industries that is generated from combustible fuels. The corresponding electricity output is included with that of natural gas. Electricity production from solar photovoltaic is available from 1992. The decrease of electricity produced from nuclear in 1997 is due to the closure for five months of one nuclear power plant. Heat produced from biofuels and waste is available from 1990. A new main activity producer CHP plant fuelled by refinery gas started up in 1999 and there was a fuel reclassification in 2000. In the 2007 edition, the Dutch Administration implemented a reporting methodology which causes some breaks between 2004 and 2005. Prior to 1990, all electricity and heat produced from coal is included in CHP plants. For natural gas, all electricity production prior to 1998 and all heat production prior to 1995 is included in CHP plants. For biofuels and waste, all electricity and heat produced prior to 1995 is included in CHP plants.

Commercial/public services electricity consumption includes small users. Increasing electricity consumption in agriculture/forestry is due to expansion of greenhouse farming. The large increase in electricity trade in 1999 is due to the liberalisation of the Dutch electricity market. A new reporting methodology starting in 2005 causes breaks in the heat consumption series. Direct use of geothermal heat in agriculture/forestry starting in 2008 is due to a new project extracting deep geothermal heat.

## New Zealand

Where data refer to the fiscal year, April 2003 to March 2004 is shown as 2003. In the 2011 edition, the New Zealand Administration has revised some of the coal, natural gas, oil, renewable and electricity time series back to 1990.

**Coal:** Peat, although produced in New Zealand, is not used as a fuel. It is used for agricultural purposes only. In final consumption, some industry data are reported in non-specified industry for confidentiality reasons. Construction is included with commercial/public services. Prior to 2009, mining and quarrying is included in agriculture. Sub-bituminous coal inputs into autoproducer CHP refers to coal that is merged

with iron sands and limestone to form the inputs for the multi-hearth-furnaces, kilns and melters to produce direct reduced iron (Glenbrook Steel Site), with off-gases and supplemental and natural gas driving the CHP plants. This method, while not the typical iron and steel process, produces similar by-products. The sub-bituminous coal inputs are reported under coke ovens and the resulting off-gases are reported as production of coke oven gas and blast furnace gas. Some transformation efficiencies will appear higher than normal due to non-reporting of certain inputs including some confidential data.

**Biofuels and Waste:** Data prior to 1993 are for the fiscal year.

**Oil:** For reasons of confidentiality, beginning in 1994, the New Zealand Administration no longer reports data on the production of methanol. Liquefaction of other hydrocarbons shown as crude oil represents synthetic gasoline production from natural gas. In February 1997, production of synthetic gasoline ceased.

**Natural Gas:** In February 1997, production of synthetic gasoline from natural gas ceased. In 1998, two new autoproducer CHP plants came on-stream, accounting for the very large consumption increases in that year. A steep decline in consumption in chemical industry in 2005 was caused by closure of the Motunui methanol production plant. The Motunui plant was then reopened in late 2008 resulting in an increase in consumption in chemical industry in 2009.

**Electricity and Heat:** The classifications used by the Administration of New Zealand were changed in 1991. Prior to 1994, data refer to fiscal year. From 1994, data refer to calendar year. Electricity production by autoproducers for geothermal is available from 1990. The New Zealand Administration has updated efficiencies for electricity production from geothermal heat from 10% to 15% from 1990 onwards; this causes a break in the time series between 1989 and 1990. Heat from chemical processes used for electricity production is available from 1990 and corresponds to acid plants in the fertiliser industry where sulphur is the main input.

Direct use of geothermal heat is available from 1990 and direct use of solar thermal heat from 2002.

Electricity consumption in paper, pulp and printing is included in wood and wood products prior to 1990. There are breaks in series between 1996 and 1997 for electricity consumption due to a new NZ Standard Industrial Classification (NZSIC).



## Norway

**Coal:** The decrease of bituminous coal production in 2005 is due to a fire in one of the coal mines; this entailed a break in the production for a large part of the year.

**Biofuels and Waste:** Data for industrial waste and biogases are available from 1991. Distribution losses for biogases are included in commercial/public services prior to 2003. Only biodiesel imports are available starting in 2006.

**Oil:** The IEA Secretariat calculates the net calorific value for Norwegian crude oil based on the oil product outputs of the oil refineries. Due to revisions from the Norwegian Administration, there are breaks in series in 1990, 1993 and 2003. Gas/diesel oil used in fishing is included in agriculture/forestry prior to 2000. Consumption of petroleum coke in industry has been reclassified from 2005. In the 2011 edition, the Norwegian Administration has reported data for additives and oxygenates for 2001 onwards.

**Natural Gas:** The large increase in energy industry own use in 1992 results from the start up of new fields. Before 2000, in energy industry own use, the oil and gas extraction data included data normally included under total final consumption. Consumption for pipeline transport is included in oil and gas extraction. Domestic navigation is included under non-specified transport. The steep increase in non-specified transport in 2007 is due to the wider use of gas-powered sea vessels. For Norway, supply of natural gas is the residual of two very large and opposite terms, production and exports. As a result, large statistical differences in some years may lead to discrepancies in the growth rates of supply and demand of natural gas.

**Electricity and Heat:** Heat production from heat pumps and electric boilers (including the electricity used for this production) is available from 1989. No data on electricity production from solar energy are submitted separately to the IEA by the Norwegian Administration. Electricity production from wind is available from 1992. Heat production from biogases is available from 1995. Breaks in series between 1996 and 1997 are due to a reclassification of main activity producers and of autoproducers. The electricity generated from *other sources* represents electricity from waste heat. Heat produced by autoproducer heat

plants from chemical processes and from *other sources* and used for electricity production was estimated by the IEA Secretariat for the period 1990 to 2006.

Consumption of electricity for pipeline transport is included in energy industry own use. The breakdown of heat consumption by industry sub-sector was expanded in 1992, reclassified in 1994 and collected by a new reporting system in 1997.

## Poland

**Coal:** For the 2011 edition, the Polish Administration has revised the time series for blast furnace gas, coke oven gas and other bituminous coal from 2001 to 2007. Time series for coke oven coke were revised for the years 1990 to 2001.

**Biofuels and Waste:** Data for biogases refer only to the gas from fermentation of biomass. Due to data availability, there is a large increase in solid biofuels between 1992 and 1993. Some changes in the data collection process lead to breaks between 1996 and 1997. Before 2000, industrial wastes were used interchangeably with light fuel oil in some plants, which might result in breaks in the time series. Data on liquid biofuels are available starting in 2003. In 2008, a new questionnaire was administered which increased the coverage of renewable and waste data.

**Oil:** Petroleum coke data are available from 2003 onwards.

**Natural Gas:** The inputs of natural gas in transformation have been inferred by the Polish Administration and for some years may be out of line with historical data. Non-specified transformation represents natural gas used for hydrogen manufacture in catalytic reforming processes. Natural gas used in pipeline transport is partly included in energy industry own use. Distribution losses may include some statistical differences.

**Electricity and Heat:** Heat production from autoproducer CHP plants includes the unsold heat for own use between 1988 and 1995. In order to alleviate this, the Polish Administration adopted new methods to estimate the production of heat sold in autoproducer heat plants (1993) and in autoproducer CHP plants (1995). This causes breaks between 1992 and 1993, and between 1994 and 1995 for heat production and fuel inputs in these plants and for heat consumption in

industry sub-sectors. In 2008, a number of CHP plants were reclassified from autoproducer to main activity producer due to an industry re-organisation.

Direct use of geothermal heat is available from 2000 and direct use of solar thermal heat from 2002.

Heat consumption in energy industry own use includes process heat not sold before 1995.

## Portugal

**Coal:** Since 1998, sub-bituminous coal is not used. As of 2002, gas works gas in the commercial/public services and residential sectors was replaced by natural gas. The production of pig iron ceased in the first quarter of 2001, leading to decreases in supply and consumption of coking coal, coke oven coke, coke oven gas and blast furnace gas in 2001.

**Biofuels and Waste:** Data are available from 1994 for biogases, from 1999 for municipal waste and from 2003 for industrial waste. Data for solid biofuels were revised by the National Administration from 1990 to 2001, which may result in breaks in series between 1989 and 1990.

**Oil:** Consumption of gas/diesel oil in industry and commercial/public services represents diesel use in mobile fleets. In the 2011 edition, the Portuguese Administration has revised the international/domestic breakdown for aviation and shipping from 2007.

**Natural Gas:** Portugal started to import natural gas in February 1997. The decrease in natural gas used for gas works in 2001 is due to the closing of the Lisbon gas works plant in May 2001.

**Electricity and Heat:** To conform to IEA methodology, heat produced from biofuels and waste (mainly black liquor) and from coal gases in autoproducer CHP plants is not accounted for since it is not sold, while the electricity produced in these plants is included. New plants fuelled by solid biofuels and by municipal waste started in 1999. In 2007, some power plants that were previously reported as main activity CHP have been reclassified as autoproducer CHP. The power station that burns industrial waste started to work as a CHP plant in 2007, whereas previously it was only producing electricity.

Direct use of solar thermal heat is available from 1989 and direct use of geothermal heat from 1994.

## Slovak Republic

Data are available starting in 1971. There are some breaks in series between 1992 and 1993. A new survey system in 2001 leads to major breaks in series for most products.

**Coal:** Commercial/public services includes national statistical differences for other bituminous coal, lignite, patent fuel, coke oven coke and BKB.

**Oil:** International aviation bunkers includes small quantities of kerosene type jet fuel used for domestic aviation. For gas/diesel oil, road data include rail use. Energy use of white spirit is not available.

**Natural Gas:** The break in series for oil and gas extraction in 2001 is due to application of the IEA's definition starting in that year. Consumption in *other transformation* is mainly natural gas used for production of hydrogen and in hydrocracking for gasoline. From 2009, data for losses are no longer available. There are inconsistencies in the time series for commercial/public services as this sub-sector is the residual of the consumption data.

**Electricity and Heat:** Electricity and heat production from combustible fuels from 1990 to 2000 have been estimated based on the data on fuel used for electricity and heat plants reported in the annual fuel questionnaires.

The low electricity consumption in oil refineries in 2003 and 2004 is due to a change in ownership and work carried out on a refinery.

Direct use of geothermal heat is available from 2001 and direct use of solar thermal heat from 2005.

## Slovenia

Data for Slovenia are available starting in 1990. Prior to that, they are included in *Energy Balances of Non-OECD Countries* in Former Yugoslavia. A new energy data collection system was implemented in January 2001, causing some breaks in time series between 1999 and 2000.

**Biofuels and Waste:** The Slovenian Administration plans to revise the total final consumption for solid biofuels with the results from a new household survey next cycle. Breaks in total final consumption for industrial waste are a result of a sectoral reclassification.

**Electricity and Heat:** Surveys for data on heat consumption are available from 2003 onwards. Prior to 2003 the data were estimated by the Slovenian Administration.

## Spain

**Coal:** Other bituminous coal use in the iron and steel industry ceased in 1991 and started again in 1996. Consumption of BKB also ended in 1991. Consumption of blast furnace gas in the chemical industry stopped in 1994 while chemical industry use of coke oven gas ceased between 1994 and 2000. Natural gas inputs into gas works gas stopped in 1999. Lignite mining was halted indefinitely in 2008.

**Biofuels and Waste:** A new reporting system leads to breaks in final consumption sectors between 1999 and 2000 and again between 2005 and 2006. In 2000 and 2006, many plants are reclassified from main activity producer to autoproducer or vice versa. Prior to 2006, inputs of biogases used to generate process heat were erroneously included as inputs to transformation when they should have been reported in the appropriate industry in final consumption. In the 2010 edition, the National Energy Commission reclassified plants that consume biogases, leading to breaks in series between 2007 and 2008.

**Oil:** A change in the reporting system in mid-1996 has resulted in some breaks in series.

**Natural Gas:** The increase of natural gas used as feedstock starting in 1988 reflects a substitution of naphtha for the production of fertilisers. There is a break in series between 1993 and 1994 in autoproducer CHP consumption, since a new survey revealed a larger number of CHP autoproducers that had previously been included in industry consumption. The large increase in main activity producer electricity consumption in 1997 is due to two main activity producer electricity plants running on natural gas in 1997. From 2001 onwards, the final consumption breakdown is estimated by the National Administration. The consumption data for 2006 onwards have been estimated on a different basis, thus causing breaks in the energy industry own use and in final consumption.

**Electricity and Heat:** The large increase in electricity output from main activity producer electricity plants fuelled by natural gas in 1997 is due to the opening of a new plant. Electricity from solar thermal plants is

available from 2007. A reclassification of plants from main activity to autoproducer in 2008 has led to breaks in electricity and heat production between 2008 and 2009.

Direct use of solar thermal heat and geothermal heat is available from 1994.

Transmission and distribution losses are estimated by the Spanish Administration. Starting in 2006, a new method was used to estimate the losses from final consumption data resulting in a break in time series between 2005 and 2006.

## Sweden

**Coal:** Other bituminous coal production is coal recovered during the quarrying of clay. Autoproducer inputs to waste heat production that is sold are reported in the respective final consumption sectors and not in transformation.

**Biofuels and Waste:** Data for biogases begin in 1992. Heat production from solid biofuels in autoproducer CHP includes waste heat and chemical heat.

**Oil:** Beginning in 1995, Sweden has changed its standard classification of industry sub-sectors. Data are available from 2000 for additives and ethane, and from 2003 for refinery gas.

**Natural Gas:** Prior to 1993, road transport is included in commercial/public services. Total final consumption and its breakdown in 2008 was estimated by the IEA Secretariat based on other Statistics Sweden publications.

**Electricity and Heat:** In Sweden, heat produced in heat pumps is sold to third parties (as district heat) and is therefore included in transformation. Inputs to heat pumps include heat recovered from industry and from ambient sources (including sewage and seawater). Ambient heat is shown as the indigenous production of heat. The electricity used to drive heat pumps is considered to be transformed and appears as output in transformation rather than as electricity used in energy industry own use. Fuel inputs to the heat that is recovered by the heat pump are reported in the appropriate industry sub-sector (i.e. chemical and paper, pulp and printing). Information on heat for sale produced in heat pumps and electric boilers is available starting in 1992. Heat produced for sale by autoproducer CHP plants is reported starting in 1992.

Heat production from liquid fuels in main activity producer CHP plants includes heat recovered from flue-gas condensing for 1997 and 1998.

Industry consumption of the heat produced by heat pumps has been estimated by the IEA Secretariat based on fuel inputs submitted by the Swedish Administration (2/3 in paper, pulp and printing and 1/3 in chemical). Consumption of electricity for distribution of district heat is included with energy industry own use.

## Switzerland

From 1999, data on consumption result from a new survey and are not comparable with data of previous years.

**Coal:** From 1985, industrial consumption of gas works gas is reported in non-specified industry to prevent the disclosure of commercially confidential data. Allocation of consumption data between certain coal types is estimated by the Swiss Administration, as are calorific values.

**Biofuels and Waste:** The autoproducer heat plant that produced heat for sale using municipal waste was closed in 2006. For the 2011 edition, the Swiss Administration revised the time series for municipal waste and solid biofuels from 1990.

**Oil:** Petroleum coke production started in 2004 due to the installation of a cracking unit in a refinery.

**Natural Gas:** The breaks in series in 2007 and 2008 for CHP plants are due to the closing of a plant in 2007 and the opening of another plant in 2008.

**Electricity and Heat:** Heat production includes heat produced by nuclear power stations and distributed to other consumers. Solar electricity production by autoproducers is available from 1990. Electricity production from pumped storage by autoproducers is available from 1996.

Direct use of geothermal heat and solar thermal heat is available from 1990. Geothermal direct use is overstated as it refers to heat production by geothermal heat pumps, which include inputs from electricity and/or gas in the transformation process. For the 2011 edition, the Swiss Administration revised the time series for geothermal and solar thermal from 1990.

Electricity consumption in the transport equipment industry is included with machinery. The breakdown of heat consumption by industry sub-sector is estimated by the IEA Secretariat from 2000 to 2009.

## Turkey

**Coal:** Production of gas works gas declined in 1989 due to plant closures; the last plant closed in 1994. Use of gas coke and gas works gas ceased in 1994. Due to government regulations in industry and residential, in particular, there has been a shift from the use of domestically produced coal to imported coal and natural gas. Privatisation of state owned coke ovens in recent years results in incomplete information on coke oven gas distribution. Data for 2008 are provided from the results of an improved questionnaire. Significant changes occur in consumption patterns within the iron and steel industry, coal mining as well as across industry, residential and commercial/public services for other bituminous coal. Some coal used in cement kilns is reported under construction instead of non-metallic minerals in 2008 and 2009. Historical data may be revised in future issues.

**Biofuels and Waste:** The Turkish Administration only surveys renewables and waste used for power and heat intermittently. Due to this fact, some breaks may appear in the biofuels and waste series.

**Natural Gas:** Data for commercial/public services were included in residential prior to 2000. The decrease in natural gas consumption in petrochemical feedstocks between 1999 and 2001 is related to the fertiliser industry. Classification improvements resulted in a break in series for non-energy use in the chemical industry in 2006. Storage capacity has been reviewed which resulted in a break in series for stock change in 2008. Starting with 2009 figures, consumption data are collected by Turkey's Energy Market Regulatory Authority. This leads to breaks in series across all sectors.

**Electricity and Heat:** In 1995, the Turkish Administration reclassified autoproducer plants by type and source to be consistent with IEA definitions. This causes breaks between 1994 and 1995 for electricity production in these plants. Electricity production from wind is available starting in 1998. In the 2006 edition, the Turkish Statistical Office started providing electricity and heat output on the basis of a new survey that revised time series back to 2000. This causes breaks in the time series between 1999 and 2000. Not all of the input series have been revised.

Consumption in the machinery sector includes transport equipment. Prior to 1998, consumption in the wood and wood products includes that of the paper, pulp and printing industry.

## United Kingdom

**Coal:** Consumption shown for the commercial/public services includes consumption of some of *other non-specified*.

**Biofuels and Waste:** Prior to 2001, some of the industrial waste was reported with *other oil products*. In the 2011 edition, the net calorific value adjustment for municipal waste was revised, leading to a break in series between 2004 and 2005.

**Oil:** Prior to 1995, the product breakdown for transfers is estimated by the UK Administration. Beginning with 1995, the UK Administration revised their product breakdown for transfers and petrochemical reporting methodology. Breaks in series for LPG occur between 2000 and 2001 due to a re-allocation of data. Fuel oil inputs to heat production are available starting in 2000. Beginning with 2009, the UK Administration revised their product consumption data based on a new reporting methodology. Consumption data prior to 2009 are pending.

**Natural Gas:** From 1992 onwards, losses include metering differences and losses due to pipeline leakage. The consumption of natural gas in commercial is included with *other non-specified* while public services is shown separately. Natural gas consumption includes substitute natural gas made at gas works and piped into the natural gas distribution system. Data in non-specified industry refer to sales by independent gas suppliers unallocated by category. The natural gas used to form synthetic coke oven gas is reported under non-specified transformation.

**Electricity and Heat:** The reorganisation and subsequent privatisation of the electricity supply industry in 1990 has resulted in some breaks in series. Inputs and output from natural gas for main activity producer electricity production are included in autoproducer electricity for 1990 (for reasons of confidentiality). For the United Kingdom, it is necessary to combine figures for main activity producers and autoproducers in order to prevent the disclosure of information relating to less than three electricity generating companies, since this information is considered confidential. For this reason data for main activity producer CHP plants have been included with autoproducer CHP plants from 1988. Prior to 1988, electricity output from CHP plants was included with main activity producer electricity plants. In 1996, the break in electricity production from nuclear is due to a reclassification of plants from autoproducer to main activity producer

plants. Electricity production from solar PV is available from 1999. Heat output is available starting in 1999.

Consumption in the non-metallic mineral products sector includes mining and quarrying. Starting in 1990, small amounts of electricity used in heat pumps have been included in residential. Electricity used for urban transport is included in non-specified transport. In the 2011 edition, the methodology for allocating electricity consumption by sector was revised which results in a break between 2004 and 2005 in the residential sector.

## United States

Due to problems in reporting, there are numerous breaks in series for the US data, particularly in 1992, 1999, 2001 and 2002. Care should be taken when evaluating consumption by sector since inputs of fuel to autoproducers are included in final consumption for some years. No data are available for most energy products in the construction and mining and quarrying industries.

**Coal:** Coal tar as a by-product of coke ovens is not currently reported.

**Biofuels and Waste:** The EIA collects generation and consumption data from all plants 1 MW or more in capacity.

**Oil:** International marine bunkers of fuel oil show a large increase in 1990 due to a change in the data collection and reporting methodology of the US Administration. From 1992 onwards, the individual components of NGL and LPG have been converted using their respective gravities rather than an average gravity, resulting in a break in series. In 1993, the US Administration made several adjustments to its collection system for oil statistics in order to accommodate the revisions to the Clean Air Act of 1990. As a result, data for oxygenates (i.e. fuel ethanol, MTBE, etc.) were collected in 1993 and reported in the additives category, or in the case of ethanol, in biogasoline. Beginning in 1994, motor gasoline consumption in commercial/public services is based on a new model from the US Department of Transportation. High statistical differences for crude oil represent "unaccounted for crude oil", the difference between the supply and disposition of crude oil. From 1995, LPG inputs to gas works are included in industry. As a result of a new Manufacturing Energy Consumption Survey (MECS), there are breaks in series between 1999 and 2000 for industry, and again between 2000

and 2001 as the MECS percentages were revised due to revisions in CHP electricity. There were significant revisions to fuel oil and unfinished oils for 2001 data. Primarily, the changes are a result of importers misclassifying unfinished oils as fuel oil. From 2002 onwards, the IEA Secretariat has estimated the amounts of refinery gas used for autoproducer electricity production.

**Natural Gas:** The amounts of gas works gas that are blended with natural gas have been estimated from 1990 to 2002 on the basis of the output efficiency of the process. With the exception of petrochemical feedstocks, other non-energy use of natural gas is included in industry prior to 2003. A detailed breakdown of industry consumption is not available for natural gas prior to 1995. From 1995 on, this breakdown is estimated by the Energy Information Administration (EIA), using the MECS, which is conducted quadrennially. Consumption in agriculture, forestry and fisheries is included in non-specified industry.

**Electricity and Heat:** There are breaks in series concerning the total production of electricity and heat in the United States. Comprehensive data on electricity and heat production and consumption in main activity producer electricity, CHP and heat plants and autoproducer electricity and CHP plants are not available for all years. The selling of main activity producer plants to autoproducers may cause breaks in the series between 1998 and 2000. For the United States, prior to 2000, autoproducers include small and independent power producers, which under IEA definitions are considered main activity producers. In the 2003 edition, the US Administration changed what it was reporting under autoproducers. This reclassification causes more breaks between 1999 and 2000. For the 2009 edition, the EIA changed their methodology for calculating heat production in CHP plants, and revised data back to 2006. This leads to breaks in series

between 2005 and 2006. Historical revisions are pending. Electricity generation reported under *other sources* is from purchased steam. For 2002, autoproducer electricity output for oil includes generation from refinery gases with a low average calorific value. Prior to 2002, this output was not accounted for. From 2007, the industrial waste category includes recovered heat from industrial processes. Accurate accounting of coke oven gas and refinery gas inputs is not always possible, which can lead to efficiencies over 100% in main activity producer CHP plants. Prior to 2008, heat produced by heat pumps was incorrectly reported as geothermal use in residential and commercial/public services.

Data for electricity absorbed by pumping and electricity production from pumped storage plants became available starting in 1987. The consumption of heat sold in industry is available from 1991 and in energy industry own use from 1992. Prior to 1991, total consumption of heat sold referred to consumption in commercial/public services. No data are available for heat sold that is consumed in residential and agriculture/forestry.

Direct use of solar thermal heat in residential is available from 1999. Prior to 1999, solar thermal electricity production includes generation from natural gas because some natural gas units are attached to solar thermal plants and their production cannot be separated. The IEA Secretariat estimated US photovoltaic (PV) electricity generation from autoproducers starting in 1999 by multiplying the dispersed and distributed PV capacity estimated by the EIA by an average capacity factor of 12%. The capacity factor was based on a report published in 2007 by the IEA Photovoltaic Power Systems Programme, *Cost and Performance Trends in Grid-Connected Photovoltaic Systems and Case Studies*. The corresponding consumption of electricity has been included under non-specified.



## 4. GEOGRAPHICAL COVERAGE

**Australia** excludes the overseas territories.

**Denmark** excludes Greenland and the Danish Faroes, except prior to 1990, where data on oil for Greenland were included with the Danish statistics. The Administration is planning to revise the series back to 1974 to exclude these amounts.

**France** includes Monaco, and excludes the following overseas departments and territories: Guadeloupe, Guyana, Martinique, New Caledonia, French Polynesia, Reunion, and St.-Pierre and Miquelon.

**Germany** includes the new federal states of Germany from 1970 onwards.

The statistical data for **Israel** are supplied by and under the responsibility of the relevant Israeli authorities. The use of such data by the OECD is without prejudice to the status of the Golan Heights, East Jerusalem and Israeli settlements in the West Bank under the terms of international law.

**Italy** includes San Marino and the Vatican.

**Japan** includes Okinawa.

The **Netherlands** excludes Suriname and the Netherlands Antilles.

**Portugal** includes the Azores and Madeira.

**Spain** includes the Canary Islands.

**Switzerland** includes Liechtenstein for the oil data. Data for other fuels do not include Liechtenstein.

Shipments of coal and oil to the Channel Islands and the Isle of Man from the **United Kingdom** are not classed as exports. Supplies of coal and oil to these islands are, therefore, included as part of UK supply. Exports of natural gas to the Isle of Man are included with the exports to Ireland.

**United States** includes the 50 states and the District of Columbia. Oil statistics as well as coal trade statistics

also include Puerto Rico, Guam, the Virgin Islands, American Samoa, Johnston Atoll, Midway Islands, Wake Island and the Northern Mariana Islands.

The **International Energy Agency (IEA)** includes Australia, Austria, Belgium, Canada, the Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Japan, Korea, Luxembourg, the Netherlands, New Zealand, Norway, Poland, Portugal, the Slovak Republic, Spain, Sweden, Switzerland, Turkey, the United Kingdom and the United States.

The **Organisation for Economic Co-Operation and Development (OECD)** includes Australia, Austria, Belgium, Canada, Chile, the Czech Republic, Denmark, Estonia<sup>5</sup>, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Israel, Italy, Japan, Korea, Luxembourg, Mexico, the Netherlands, New Zealand, Norway, Poland, Portugal, the Slovak Republic, Slovenia<sup>5</sup>, Spain, Sweden, Switzerland, Turkey, the United Kingdom and the United States.

**OECD Americas** includes Canada, Chile, Mexico and the United States.

**OECD Asia Oceania** includes Australia, Israel, Japan, Korea and New Zealand.

**OECD Europe** includes Austria, Belgium, the Czech Republic, Denmark, Estonia<sup>5</sup>, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Poland, Portugal, the Slovak Republic, Slovenia<sup>5</sup>, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

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5. Estonia and Slovenia are included starting in 1990. Prior to 1990, data for Estonia are included in Former Soviet Union and data for Slovenia in Former Yugoslavia in the publication *Energy Balances of Non-OECD Countries*.





# **PART II**

# **STATISTICAL DATA**



# **COUNTRY-SPECIFIC NET CALORIFIC VALUES**

**2009**

## Country specific net calorific values (kilojoule per kilogramme)

2009

	Australia	Austria	Belgium	Canada	Chile	Czech Republic	Denmark	Estonia	Finland
<b>Crude oil</b>									
Production	43985	42500	-	42790	43576	42000	43000	-	-
Imports	42655	42500	42750	42790	43166	42360	43000	-	42390
Exports	43985	-	-	42790	-	42300	43000	-	-
Average	43282	42500	42750	42790	43371	42353	43000	-	42390
<b>NGL</b>	45410	42500	-	45220	48095	-	-	-	45217
<b>Refinery feedstocks</b>	43282	42333	42500	42500	44799	41868	42700	-	42496
<b>Additives</b>	-	-	25100	-	-	25120	-	-	25121
<b>Other hydrocarbons</b>	-	-	-	41868	-	-	-	39575	41868
<b>Biogasoline</b>	26800	26700	26860	26800	-	27000	26700	-	27500
<b>Biodiesels</b>	36800	36600	38052	36800	-	37100	37600	-	36800
<b>Other liquid biofuels</b>	-	33102	37000	-	-	-	36800	-	-
<b>Anthracite</b>									
Production	26700	-	-	-	-	-	-	-	-
Imports	-	32363	25184	27700	-	30000	-	-	-
Exports	26700	-	25184	-	-	30000	-	-	-
Main activity elec. generation	-	-	-	-	-	-	-	-	-
Industry	-	-	25184	27700	-	30000	-	-	-
Other uses	26700	28033	25184	27700	-	30000	-	-	-
<b>Coking coal</b>									
Production	28500	-	-	24719	-	28601	-	-	-
Imports	-	29073	29308	28329	28638	28882	-	-	29300
Exports	28500	-	29308	24719	-	28898	-	-	-
Coke ovens	28500	29073	29308	28329	28638	29381	-	-	29300
Main activity elec. generation	-	-	-	-	-	-	-	-	-
Industry	-	-	-	-	-	-	-	-	-
Other uses	28000	29073	29308	24719	28638	28500	-	-	29300
<b>Other bituminous coal</b>									
Production	28794	-	-	24719	23187	25380	-	-	-
Imports	-	28067	25781	28329	21702	24743	24645	27160	24600
Exports	28794	-	25781	24719	-	28454	24666	-	-
Coke ovens	-	-	-	-	-	-	-	-	-
Main activity elec. generation	28794	27970	28978	28288	23984	23861	24305	27160	25261
Industry	28794	28687	29308	24719	27841	23013	26500	27160	24600
Other uses	28794	28099	25781	24719	27841	25786	24648	27160	24600
<b>Sub-bituminous coal</b>									
Production	20857	-	-	19150	-	-	-	-	-
Imports	-	22200	-	19150	-	-	-	-	-
Exports	-	-	-	19150	-	-	-	-	-
Main activity elec. generation	20857	-	-	18300	-	-	-	-	-
Industry	20857	22200	-	-	-	-	-	-	-
Other uses	20857	22200	-	19150	-	-	-	-	-
<b>Lignite</b>									
Production	9310	-	-	15000	-	12658	-	9000	-
Imports	-	9015	8370	15000	-	13881	-	8000	-
Exports	-	9158	-	15000	-	15963	-	-	-
Main activity elec. generation	10011	-	-	15000	-	11603	-	9377	-
Industry	9310	10004	8370	-	-	12568	-	11000	-
Other uses	9310	9158	8370	15000	-	13859	-	11000	-
<b>Patent fuel</b>	-	31003	29308	-	-	-	-	-	-
<b>Coke oven coke</b>	25650	29000	27696	27389	27350	28208	29300	29308	29300
<b>Coal tar</b>	35714	41800	-	-	41338	37161	-	-	37000
<b>BKB</b>	21951	19303	20097	-	-	22203	18300	16000	-
<b>Peat</b>	-	8800	-	-	-	-	-	9704	10200
<b>Charcoal</b>	-	31000	29300	-	-	-	-	-	-

## Country specific net calorific values (kilojoule per kilogramme)

2009

	France	Germany	Greece	Hungary	Iceland	Ireland	Israel	Italy	Japan
<b>Crude oil</b>									
Production	41855	42757	38158	41800	-	-	-	41860	42358
Imports	41855	42757	41540	41800	-	42830	42538	41860	42358
Exports	-	42757	41860	-	-	-	-	41860	-
Average	41855	42757	41228	41800	-	42830	42538	41860	42358
<b>NGL</b>	42000	-	-	43000	-	-	-	-	46274
<b>Refinery feedstocks</b>	41855	42496	41318	41800	-	42500	44799	41860	42500
<b>Additives</b>	25120	25121	41318	41800	-	-	-	25121	-
<b>Other hydrocarbons</b>	-	-	-	-	-	-	-	-	-
<b>Biogasoline</b>	26805	26660	-	26600	-	24091	-	26800	-
<b>Biodiesels</b>	37400	37100	37980	37500	-	37273	-	37400	-
<b>Other liquid biofuels</b>	-	23208	-	-	-	36364	36800	36700	-
<b>Anthracite</b>									
Production	-	29030	-	-	-	-	-	-	-
Imports	-	29030	-	-	-	27842	-	-	26362
Exports	-	30100	-	-	-	-	-	-	-
Main activity elec. generation	-	29710	-	-	-	-	-	-	-
Industry	-	29710	-	-	-	-	-	-	-
Other uses	-	29710	-	-	-	27842	-	-	26362
<b>Coking coal</b>									
Production	-	29000	-	-	-	-	-	-	-
Imports	30500	29000	-	31430	28050	-	-	30984	28130
Exports	30500	29000	-	-	-	-	-	-	-
Coke ovens	30500	29000	-	31430	-	-	-	30984	28227
Main activity elec. generation	-	29000	-	-	-	-	-	-	-
Industry	-	29000	-	-	28050	-	-	-	-
Other uses	30500	29000	-	31430	28050	-	-	30984	27354
<b>Other bituminous coal</b>									
Production	26000	23850	-	-	-	-	-	26587	-
Imports	26000	26090	26000	25060	28050	27838	25146	26587	24801
Exports	26000	30130	26044	23860	-	27842	-	-	24801
Coke ovens	-	-	-	-	-	-	-	-	24801
Main activity elec. generation	29681	26000	26044	25454	-	26146	25146	25572	25057
Industry	26000	25500	26000	25440	28050	27842	-	26587	24801
Other uses	26000	25000	25805	25510	28050	27842	25146	26587	24801
<b>Sub-bituminous coal</b>									
Production	-	-	-	-	-	-	-	-	-
Imports	-	-	-	16270	-	-	-	18832	-
Exports	-	-	-	16000	-	-	-	-	-
Main activity elec. generation	-	-	-	16578	-	-	-	18832	-
Industry	-	-	-	16000	-	-	-	-	-
Other uses	-	-	-	17410	-	-	-	18832	-
<b>Lignite</b>									
Production	-	9000	5275	7250	-	-	2931	-	-
Imports	17000	17585	8505	-	-	19820	-	10468	-
Exports	-	10798	-	8500	-	19820	-	-	-
Main activity elec. generation	-	9115	5273	7086	-	-	-	-	-
Industry	17000	8619	7435	10700	-	-	2931	10468	-
Other uses	17000	10054	5275	10660	-	19820	2931	10468	-
<b>Patent fuel</b>	32000	31400	-	-	-	-	-	-	-
<b>Coke oven coke</b>	28000	28650	30230	29610	26670	-	-	29000	29400
<b>Coal tar</b>	38000	-	-	38000	-	-	-	-	35393
<b>BKB</b>	-	18871	-	20000	-	18548	-	-	-
<b>Peat</b>	-	-	-	-	-	8824	-	-	-
<b>Charcoal</b>	-	-	31000	-	-	-	30800	30800	29300

## Country specific net calorific values (kilojoule per kilogramme)

2009

	Korea	Luxembourg	Mexico	Netherlands	New Zealand	Norway	Poland	Portugal
<b>Crude oil</b>								
Production	42700	-	45247	42700	43649	41963	42223	-
Imports	42700	-	-	42700	42744	41963	42496	43040
Exports	-	-	45247	42700	43623	41963	42222	-
Average	42700	-	45247	42700	43339	41963	42494	43040
<b>NGL</b>	-	-	42661	44000	45618	43795	-	-
<b>Refinery feedstocks</b>	44800	-	-	42496	44026	42300	42500	43996
<b>Additives</b>	41868	-	46015	25121	-	36800	35516	37000
<b>Other hydrocarbons</b>	-	-	-	-	-	-	42500	-
<b>Biogasoline</b>	-	27000	-	27150	26800	-	30883	-
<b>Biodiesels</b>	38210	37000	-	37000	36800	36800	38400	37000
<b>Other liquid biofuels</b>	-	39763	-	35600	-	36800	38400	36800
<b>Anthracite</b>								
Production	19259	-	-	-	-	-	-	-
Imports	26796	26700	-	29300	-	-	-	29624
Exports	-	-	-	29300	-	-	-	26743
Main activity elec. generation	23392	-	-	-	-	-	-	-
Industry	26764	26700	-	29300	-	-	-	30074
Other uses	19259	29300	-	29300	-	-	-	30074
<b>Coking coal</b>								
Production	-	-	23483	-	29420	-	29600	-
Imports	28261	-	-	28671	29420	-	29600	-
Exports	-	-	-	28671	29420	-	29660	-
Coke ovens	29261	-	23483	28671	-	-	29559	-
Main activity elec. generation	-	-	-	-	-	-	-	-
Industry	28261	-	-	28671	29420	-	29572	-
Other uses	28261	-	23483	28671	29420	-	28912	-
<b>Other bituminous coal</b>								
Production	-	-	-	-	28230	28100	23004	-
Imports	24911	29300	23483	24789	28230	28100	23990	25582
Exports	-	-	23483	24789	-	28100	27940	25805
Coke ovens	-	-	23483	-	-	-	25157	-
Main activity elec. generation	25937	-	-	24788	-	28100	21863	25582
Industry	24911	29300	-	-	28230	28100	22526	25826
Other uses	24908	29300	23483	24789	28230	28100	25961	25582
<b>Sub-bituminous coal</b>								
Production	-	-	19405	-	20610	-	-	-
Imports	20934	-	19405	-	20610	-	-	-
Exports	-	-	-	-	20610	-	-	-
Main activity elec. generation	20933	-	21548	-	20411	-	-	-
Industry	19259	-	19405	-	20610	-	-	-
Other uses	20933	-	19405	-	20610	-	-	-
<b>Lignite</b>								
Production	-	-	-	-	13380	-	8930	-
Imports	-	-	14100	20000	-	-	8670	-
Exports	-	-	-	-	-	-	8876	-
Main activity elec. generation	-	-	-	-	-	-	8813	-
Industry	-	-	-	20000	13380	-	9075	-
Other uses	-	-	14100	20000	13380	-	8876	-
<b>Patent fuel</b>	19259	-	-	-	-	-	23191	-
<b>Coke oven coke</b>	29308	28500	26521	28500	29500	28500	27631	29229
<b>Coal tar</b>	37000	-	-	41900	-	-	37667	-
<b>BKB</b>	-	20100	-	-	-	-	17486	-
<b>Peat</b>	-	-	-	-	-	-	-	-
<b>Charcoal</b>	-	-	-	30000	-	-	-	-

## Country specific net calorific values (kilojoule per kilogramme)

2009

	Slovak Republic	Slovenia	Spain	Sweden	Switzerland	Turkey	United Kingdom	United States
<b>Crude oil</b>								
Production	41200	-	42665	-	-	41370	43371	43261
Imports	42000	-	42665	42161	43225	41570	43371	43143
Exports	41903	-	-	-	-	-	43371	43261
Average	41996	-	42665	42161	43225	41520	43371	43092
<b>NGL</b>	37000	-	-	-	-	-	45333	46203
<b>Refinery feedstocks</b>	43860	-	42500	44244	43700	42500	42496	43711
<b>Additives</b>	43756	-	25100	25121	41325	-	-	25121
<b>Other hydrocarbons</b>	41500	-	-	-	-	-	-	51004
<b>Biogasoline</b>	22650	26670	26753	26886	26524	26800	26800	26747
<b>Biodiesels</b>	40400	36900	37555	37513	32040	37046	36800	40933
<b>Other liquid biofuels</b>	-	-	-	42095	-	-	-	21583
<b>Anthracite</b>								
Production	-	-	18220	-	-	-	-	28796
Imports	27183	-	26300	-	28100	-	-	29237
Exports	-	-	25300	-	-	-	-	28796
Main activity elec. generation	25337	-	20529	-	-	-	-	12839
Industry	27163	-	-	-	28100	-	-	19731
Other uses	27163	-	26900	-	28100	-	-	22265
<b>Coking coal</b>								
Production	-	-	-	-	-	22358	30400	28184
Imports	29250	-	28600	30000	-	28951	28900	28203
Exports	-	-	-	-	-	-	30400	27567
Coke ovens	29250	-	28600	30000	-	28904	31000	29707
Main activity elec. generation	-	-	-	-	-	-	-	-
Industry	-	-	-	-	-	23710	30400	-
Other uses	29250	-	30009	30000	-	25574	30400	28532
<b>Other bituminous coal</b>								
Production	-	-	18300	-	-	14795	25000	26832
Imports	26766	23896	23365	27400	28100	26396	25200	25951
Exports	-	23896	24011	27400	-	-	30600	27425
Coke ovens	-	-	-	-	-	-	-	-
Main activity elec. generation	25150	-	23581	27900	-	21626	24855	25807
Industry	26758	23896	24250	26860	28100	24496	26133	27325
Other uses	26758	23896	26050	27400	28100	28763	24488	27273
<b>Sub-bituminous coal</b>								
Production	-	-	10023	-	-	18833	-	19009
Imports	-	18857	-	-	-	-	-	20049
Exports	-	-	-	-	-	-	-	18799
Main activity elec. generation	-	17914	12672	-	-	22984	-	19330
Industry	-	17972	-	-	-	17585	-	20176
Other uses	-	18340	13055	-	-	17640	-	18740
<b>Lignite</b>								
Production	10630	10964	-	-	-	8660	-	13898
Imports	13824	16453	-	-	20100	-	-	13834
Exports	-	-	-	-	-	-	-	13914
Main activity elec. generation	10161	11592	-	-	-	6280	-	14221
Industry	11050	-	-	-	20100	17082	-	14754
Other uses	11050	11046	-	-	20100	16747	-	14997
<b>Patent fuel</b>	28000	-	-	-	-	-	30970	-
<b>Coke oven coke</b>	28253	29591	30139	28080	28100	27633	28310	28842
<b>Coal tar</b>	33490	-	38519	-	-	-	38519	-
<b>BKB</b>	23827	-	-	-	-	-	-	-
<b>Peat</b>	-	-	-	12500	-	-	-	-
<b>Charcoal</b>	-	-	-	-	-	-	-	-



## Country specific net calorific values (tonne of oil equivalent per tonne)

2009

	Australia	Austria	Belgium	Canada	Chile	Czech Republic	Denmark	Estonia	Finland
<b>Crude oil</b>									
Production	1.0506	1.0151	-	1.0220	1.0408	1.0032	1.0270	-	-
Imports	1.0188	1.0151	1.0211	1.0220	1.0310	1.0118	1.0270	-	1.0125
Exports	1.0506	-	-	1.0220	-	1.0103	1.0270	-	-
Average	1.0338	1.0151	1.0211	1.0220	1.0359	1.0116	1.0270	-	1.0125
<b>NGL</b>	1.0846	1.0151	-	1.0801	1.1487	-	-	-	1.0800
<b>Refinery feedstocks</b>	1.0338	1.0111	1.0151	1.0151	1.0700	1.0000	1.0199	-	1.0150
<b>Additives</b>	-	-	0.5995	-	-	0.6000	-	-	0.6000
<b>Other hydrocarbons</b>	-	-	-	1.0000	-	-	-	0.9452	1.0000
<b>Biogasoline</b>	0.6401	0.6377	0.6415	0.6401	-	0.6449	0.6377	-	0.6568
<b>Biodiesels</b>	0.8790	0.8742	0.9089	0.8790	-	0.8861	0.8981	-	0.8790
<b>Other liquid biofuels</b>	-	0.7906	0.8837	-	-	-	0.8790	-	-
<b>Anthracite</b>									
Production	0.6377	-	-	-	-	-	-	-	-
Imports	-	0.7730	0.6015	0.6616	-	0.7165	-	-	-
Exports	0.6377	-	0.6015	-	-	0.7165	-	-	-
Main activity elec. generation	-	-	-	-	-	-	-	-	-
Industry	-	-	0.6015	0.6616	-	0.7165	-	-	-
Other uses	0.6377	0.6696	0.6015	0.6616	-	0.7165	-	-	-
<b>Coking coal</b>									
Production	0.6807	-	-	0.5904	-	0.6831	-	-	-
Imports	-	0.6944	0.7000	0.6766	0.6840	0.6898	-	-	0.6998
Exports	0.6807	-	0.7000	0.5904	-	0.6902	-	-	-
Coke ovens	0.6807	0.6944	0.7000	0.6766	0.6840	0.7018	-	-	0.6998
Main activity elec. generation	-	-	-	-	-	-	-	-	-
Industry	-	-	-	-	-	-	-	-	-
Other uses	0.6688	0.6944	0.7000	0.5904	0.6840	0.6807	-	-	0.6998
<b>Other bituminous coal</b>									
Production	0.6877	-	-	0.5904	0.5538	0.6062	-	-	-
Imports	-	0.6704	0.6158	0.6766	0.5183	0.5910	0.5886	0.6487	0.5876
Exports	0.6877	-	0.6158	0.5904	-	0.6796	0.5891	-	-
Coke ovens	-	-	-	-	-	-	-	-	-
Main activity elec. generation	0.6877	0.6681	0.6921	0.6756	0.5728	0.5699	0.5805	0.6487	0.6033
Industry	0.6877	0.6852	0.7000	0.5904	0.6650	0.5497	0.6329	0.6487	0.5876
Other uses	0.6877	0.6711	0.6158	0.5904	0.6650	0.6159	0.5887	0.6487	0.5876
<b>Sub-bituminous coal</b>									
Production	0.4982	-	-	0.4574	-	-	-	-	-
Imports	-	0.5302	-	0.4574	-	-	-	-	-
Exports	-	-	-	0.4574	-	-	-	-	-
Main activity elec. generation	0.4982	-	-	0.4371	-	-	-	-	-
Industry	0.4982	0.5302	-	-	-	-	-	-	-
Other uses	0.4982	0.5302	-	0.4574	-	-	-	-	-
<b>Lignite</b>									
Production	0.2224	-	-	0.3583	-	0.3023	-	0.2150	-
Imports	-	0.2153	0.1999	0.3583	-	0.3315	-	0.1911	-
Exports	-	0.2187	-	0.3583	-	0.3813	-	-	-
Main activity elec. generation	0.2391	-	-	0.3583	-	0.2771	-	0.2240	-
Industry	0.2224	0.2389	0.1999	-	-	0.3002	-	0.2627	-
Other uses	0.2224	0.2187	0.1999	0.3583	-	0.3310	-	0.2627	-
<b>Patent fuel</b>	-	0.7405	0.7000	-	-	-	-	-	-
<b>Coke oven coke</b>	0.6126	0.6927	0.6615	0.6542	0.6532	0.6737	0.6998	0.7000	0.6998
<b>Coal tar</b>	0.8530	0.9984	-	-	0.9873	0.8876	-	-	0.8837
<b>BKB</b>	0.5243	0.4610	0.4800	-	-	0.5303	0.4371	0.3822	-
<b>Peat</b>	-	0.2102	-	-	-	-	-	0.2318	0.2436
<b>Charcoal</b>	-	0.7404	0.6998	-	-	-	-	-	-

## Country specific net calorific values (tonne of oil equivalent per tonne)

2009

	France	Germany	Greece	Hungary	Iceland	Ireland	Israel	Italy	Japan
<b>Crude oil</b>									
Production	0.9997	1.0212	0.9114	0.9984	-	-	-	0.9998	1.0117
Imports	0.9997	1.0212	0.9922	0.9984	-	1.0230	1.0160	0.9998	1.0117
Exports	-	1.0212	0.9998	-	-	-	-	0.9998	-
Average	0.9997	1.0212	0.9847	0.9984	-	1.0230	1.0160	0.9998	1.0117
<b>NGL</b>	1.0032	-	-	1.0270	-	-	-	-	1.1052
<b>Refinery feedstocks</b>	0.9997	1.0150	0.9869	0.9984	-	1.0151	1.0700	0.9998	1.0151
<b>Additives</b>	0.6000	0.6000	0.9869	0.9984	-	-	-	0.6000	-
<b>Other hydrocarbons</b>	-	-	-	-	-	-	-	-	-
<b>Biogasoline</b>	0.6402	0.6368	-	0.6353	-	0.5754	-	0.6401	-
<b>Biodiesels</b>	0.8933	0.8861	0.9071	0.8957	-	0.8903	-	0.8933	-
<b>Other liquid biofuels</b>	-	0.5543	-	-	-	0.8685	0.8790	0.8766	-
<b>Anthracite</b>									
Production	-	0.6934	-	-	-	-	-	-	-
Imports	-	0.6934	-	-	-	0.6650	-	-	0.6296
Exports	-	0.7189	-	-	-	-	-	-	-
Main activity elec. generation	-	0.7096	-	-	-	-	-	-	-
Industry	-	0.7096	-	-	-	-	-	-	-
Other uses	-	0.7096	-	-	-	0.6650	-	-	0.6296
<b>Coking coal</b>									
Production	-	0.6927	-	-	-	-	-	-	-
Imports	0.7285	0.6927	-	0.7507	0.6700	-	-	0.7400	0.6719
Exports	0.7285	0.6927	-	-	-	-	-	-	-
Coke ovens	0.7285	0.6927	-	0.7507	-	-	-	0.7400	0.6742
Main activity elec. generation	-	0.6927	-	-	-	-	-	-	-
Industry	-	0.6927	-	-	0.6700	-	-	-	-
Other uses	0.7285	0.6927	-	0.7507	0.6700	-	-	0.7400	0.6533
<b>Other bituminous coal</b>									
Production	0.6210	0.5696	-	-	-	-	-	0.6350	-
Imports	0.6210	0.6231	0.6210	0.5985	0.6700	0.6649	0.6006	0.6350	0.5924
Exports	0.6210	0.7196	0.6221	0.5699	-	0.6650	-	-	0.5924
Coke ovens	-	-	-	-	-	-	-	-	0.5924
Main activity elec. generation	0.7089	0.6210	0.6221	0.6080	-	0.6245	0.6006	0.6108	0.5985
Industry	0.6210	0.6091	0.6210	0.6076	0.6700	0.6650	-	0.6350	0.5924
Other uses	0.6210	0.5971	0.6163	0.6093	0.6700	0.6650	0.6006	0.6350	0.5924
<b>Sub-bituminous coal</b>									
Production	-	-	-	-	-	-	-	-	-
Imports	-	-	-	0.3886	-	-	-	0.4498	-
Exports	-	-	-	0.3822	-	-	-	-	-
Main activity elec. generation	-	-	-	0.3960	-	-	-	0.4498	-
Industry	-	-	-	0.3822	-	-	-	-	-
Other uses	-	-	-	0.4158	-	-	-	0.4498	-
<b>Lignite</b>									
Production	-	0.2150	0.1260	0.1732	-	-	0.0700	-	-
Imports	0.4060	0.4200	0.2031	-	-	0.4734	-	0.2500	-
Exports	-	0.2579	-	0.2030	-	0.4734	-	-	-
Main activity elec. generation	-	0.2177	0.1259	0.1692	-	-	-	-	-
Industry	0.4060	0.2059	0.1776	0.2556	-	-	0.0700	0.2500	-
Other uses	0.4060	0.2401	0.1260	0.2546	-	0.4734	0.0700	0.2500	-
<b>Patent fuel</b>	0.7643	0.7500	-	-	-	-	-	-	-
<b>Coke oven coke</b>	0.6688	0.6843	0.7220	0.7072	0.6370	-	-	0.6927	0.7022
<b>Coal tar</b>	0.9076	-	-	0.9076	-	-	-	-	0.8453
<b>BKB</b>	-	0.4507	-	0.4777	-	0.4430	-	-	-
<b>Peat</b>	-	-	-	-	-	0.2108	-	-	-
<b>Charcoal</b>	-	-	0.7404	-	-	-	0.7356	0.7356	0.6998

## Country specific net calorific values (tonne of oil equivalent per tonne)

2009

	Korea	Luxembourg	Mexico	Netherlands	New Zealand	Norway	Poland	Portugal
<b>Crude oil</b>								
Production	1.0199	-	1.0807	1.0199	1.0425	1.0023	1.0085	-
Imports	1.0199	-	-	1.0199	1.0209	1.0023	1.0150	1.0280
Exports	-	-	1.0807	1.0199	1.0419	1.0023	1.0085	-
Average	1.0199	-	1.0807	1.0199	1.0351	1.0023	1.0150	1.0280
<b>NGL</b>	-	-	1.0189	1.0509	1.0896	1.0460	-	-
<b>Refinery feedstocks</b>	1.0700	-	-	1.0150	1.0515	1.0103	1.0151	1.0508
<b>Additives</b>	1.0000	-	1.0990	0.6000	-	0.8790	0.8483	0.8837
<b>Other hydrocarbons</b>	-	-	-	-	-	-	1.0151	-
<b>Biogasoline</b>	-	0.6449	-	0.6485	0.6401	-	0.7376	-
<b>Biodiesels</b>	0.9126	0.8837	-	0.8837	0.8790	0.8790	0.9172	0.8837
<b>Other liquid biofuels</b>	-	0.9497	-	0.8503	-	0.8790	0.9172	0.8790
<b>Anthracite</b>								
Production	0.4600	-	-	-	-	-	-	-
Imports	0.6400	0.6377	-	0.6998	-	-	-	0.7076
Exports	-	-	-	0.6998	-	-	-	0.6387
Main activity elec. generation	0.5587	-	-	-	-	-	-	-
Industry	0.6392	0.6377	-	0.6998	-	-	-	0.7183
Other uses	0.4600	0.6998	-	0.6998	-	-	-	0.7183
<b>Coking coal</b>								
Production	-	-	0.5609	-	0.7027	-	0.7070	-
Imports	0.6750	-	-	0.6848	0.7027	-	0.7070	-
Exports	-	-	-	0.6848	0.7027	-	0.7084	-
Coke ovens	0.6989	-	0.5609	0.6848	-	-	0.7060	-
Main activity elec. generation	-	-	-	-	-	-	-	-
Industry	0.6750	-	-	0.6848	0.7027	-	0.7063	-
Other uses	0.6750	-	0.5609	0.6848	0.7027	-	0.6906	-
<b>Other bituminous coal</b>								
Production	-	-	-	-	0.6743	0.6712	0.5494	-
Imports	0.5950	0.6998	0.5609	0.5921	0.6743	0.6712	0.5730	0.6110
Exports	-	-	0.5609	0.5921	-	0.6712	0.6673	0.6163
Coke ovens	-	-	0.5609	-	-	-	0.6009	-
Main activity elec. generation	0.6195	-	-	0.5921	-	0.6712	0.5222	0.6110
Industry	0.5950	0.6998	-	-	0.6743	0.6712	0.5380	0.6168
Other uses	0.5949	0.6998	0.5609	0.5921	0.6743	0.6712	0.6201	0.6110
<b>Sub-bituminous coal</b>								
Production	-	-	0.4635	-	0.4923	-	-	-
Imports	0.5000	-	0.4635	-	0.4923	-	-	-
Exports	-	-	-	-	0.4923	-	-	-
Main activity elec. generation	0.5000	-	0.5147	-	0.4875	-	-	-
Industry	0.4600	-	0.4635	-	0.4923	-	-	-
Other uses	0.5000	-	0.4635	-	0.4923	-	-	-
<b>Lignite</b>								
Production	-	-	-	-	0.3196	-	0.2133	-
Imports	-	-	0.3368	0.4777	-	-	0.2071	-
Exports	-	-	-	-	-	-	0.2120	-
Main activity elec. generation	-	-	-	-	-	-	0.2105	-
Industry	-	-	-	0.4777	0.3196	-	0.2168	-
Other uses	-	-	0.3368	0.4777	0.3196	-	0.2120	-
<b>Patent fuel</b>	0.4600	-	-	-	-	-	0.5539	-
<b>Coke oven coke</b>	0.7000	0.6807	0.6334	0.6807	0.7046	0.6807	0.6600	0.6981
<b>Coal tar</b>	0.8837	-	-	1.0008	-	-	0.8997	-
<b>BKB</b>	-	0.4801	-	-	-	-	0.4176	-
<b>Peat</b>	-	-	-	-	-	-	-	-
<b>Charcoal</b>	-	-	-	0.7165	-	-	-	-

## Country specific net calorific values (tonne of oil equivalent per tonne)

2009

	Slovak Republic	Slovenia	Spain	Sweden	Switzerland	Turkey	United Kingdom	United States
<b>Crude oil</b>								
Production	0.9840	-	1.0190	-	-	0.9881	1.0359	1.0333
Imports	1.0032	-	1.0190	1.0070	1.0324	0.9929	1.0359	1.0305
Exports	1.0008	-	-	-	-	-	1.0359	1.0333
Average	1.0031	-	1.0190	1.0070	1.0324	0.9917	1.0359	1.0292
<b>NGL</b>	0.8837	-	-	-	-	-	1.0828	1.1035
<b>Refinery feedstocks</b>	1.0476	-	1.0151	1.0567	1.0438	1.0151	1.0150	1.0440
<b>Additives</b>	1.0451	-	0.5995	0.6000	0.9870	-	-	0.6000
<b>Other hydrocarbons</b>	0.9912	-	-	-	-	-	-	1.2182
<b>Biogasoline</b>	0.5410	0.6370	0.6390	0.6422	0.6335	0.6401	0.6401	0.6388
<b>Biodiesels</b>	0.9649	0.8813	0.8970	0.8960	0.7653	0.8848	0.8790	0.9777
<b>Other liquid biofuels</b>	-	-	-	1.0054	-	-	-	0.5155
<b>Anthracite</b>								
Production	-	-	0.4352	-	-	-	-	0.6878
Imports	0.6493	-	0.6282	-	0.6712	-	-	0.6983
Exports	-	-	0.6043	-	-	-	-	0.6878
Main activity elec. generation	0.6052	-	0.4903	-	-	-	-	0.3067
Industry	0.6488	-	-	-	0.6712	-	-	0.4713
Other uses	0.6488	-	0.6425	-	0.6712	-	-	0.5318
<b>Coking coal</b>								
Production	-	-	-	-	-	0.5340	0.7261	0.6732
Imports	0.6986	-	0.6831	0.7165	-	0.6915	0.6903	0.6736
Exports	-	-	-	-	-	-	0.7261	0.6584
Coke ovens	0.6986	-	0.6831	0.7165	-	0.6904	0.7404	0.7095
Main activity elec. generation	-	-	-	-	-	-	-	-
Industry	-	-	-	-	-	0.5663	0.7261	-
Other uses	0.6986	-	0.7168	0.7165	-	0.6108	0.7261	0.6815
<b>Other bituminous coal</b>								
Production	-	-	0.4371	-	-	0.3534	0.5971	0.6409
Imports	0.6393	0.5707	0.5581	0.6544	0.6712	0.6305	0.6019	0.6198
Exports	-	0.5707	0.5735	0.6544	-	-	0.7309	0.6550
Coke ovens	-	-	-	-	-	-	-	-
Main activity elec. generation	0.6007	-	0.5632	0.6664	-	0.5165	0.5937	0.6164
Industry	0.6391	0.5707	0.5792	0.6415	0.6712	0.5851	0.6242	0.6526
Other uses	0.6391	0.5707	0.6222	0.6544	0.6712	0.6870	0.5849	0.6514
<b>Sub-bituminous coal</b>								
Production	-	-	0.2394	-	-	0.4498	-	0.4540
Imports	-	0.4504	-	-	-	-	-	0.4789
Exports	-	-	-	-	-	-	-	0.4490
Main activity elec. generation	-	0.4279	0.3027	-	-	0.5490	-	0.4617
Industry	-	0.4293	-	-	-	0.4200	-	0.4819
Other uses	-	0.4380	0.3118	-	-	0.4213	-	0.4476
<b>Lignite</b>								
Production	0.2539	0.2619	-	-	-	0.2068	-	0.3319
Imports	0.3302	0.3930	-	-	0.4801	-	-	0.3304
Exports	-	-	-	-	-	-	-	0.3323
Main activity elec. generation	0.2427	0.2769	-	-	-	0.1500	-	0.3397
Industry	0.2639	-	-	-	0.4801	0.4080	-	0.3524
Other uses	0.2639	0.2638	-	-	0.4801	0.4000	-	0.3582
<b>Patent fuel</b>	0.6688	-	-	-	-	-	0.7397	-
<b>Coke oven coke</b>	0.6748	0.7068	0.7199	0.6707	0.6712	0.6600	0.6762	0.6889
<b>Coal tar</b>	0.7999	-	0.9200	-	-	-	0.9200	-
<b>BKB</b>	0.5691	-	-	-	-	-	-	-
<b>Peat</b>	-	-	-	0.2986	-	-	-	-
<b>Charcoal</b>	-	-	-	-	-	-	-	-



# **ENERGY BALANCE SHEETS AND ENERGY INDICATORS**

## OECD Total : 2008

Million tonnes of oil equivalent											
SUPPLY AND CONSUMPTION	Coal & peat	Crude oil*	Oil products	Natural gas	Nuclear	Hydro	Geotherm. solar etc.	Biofuels & waste	Electricity	Heat	Total
Production	1039.03	893.58	-	950.25	593.95	114.57	51.79	233.68	-	0.62	3877.47
Imports	394.38	1658.43	548.52	606.52	-	-	-	8.29	35.18	0.00	3251.33
Exports	-270.31	-368.19	-476.90	-279.71	-	-	-	-4.86	-34.53	-0.01	-1434.51
Intl. marine bunkers	-	-	-97.32	-	-	-	-	-	-	-	-97.32
Intl. aviation bunkers	-	-	-90.45	-	-	-	-	-	-	-	-90.45
Stock changes	-18.54	-5.53	-2.94	1.79	-	-	-	-0.53	-	-	-25.76
<b>TPES</b>	<b>1144.56</b>	<b>2178.29</b>	<b>-119.08</b>	<b>1278.84</b>	<b>593.95</b>	<b>114.57</b>	<b>51.79</b>	<b>236.58</b>	<b>0.64</b>	<b>0.61</b>	<b>5480.77</b>
Transfers	-	-31.13	43.84	-	-	-	-	-	-	-	12.71
Statistical differences	-14.05	-20.73	-8.08	3.86	-	-	-0.00	0.05	-0.14	-0.05	-39.14
Electricity plants	-829.57	-6.91	-66.11	-324.90	-590.41	-114.57	-42.80	-38.83	840.04	-0.23	-1174.30
CHP plants	-85.91	-	-15.83	-107.44	-3.54	-	-1.06	-26.85	89.61	58.83	-92.18
Heat plants	-4.42	-	-1.12	-7.81	-	-	-0.12	-4.34	-0.33	14.60	-3.54
Blast furnaces	-49.43	-	-1.21	-0.11	-	-	-	-	-	-	-50.76
Gas works	-1.97	-	-2.98	3.25	-	-	-	-0.01	-	-	-1.71
Coke/pat. fuel/BKB plants	-8.78	-	-1.16	-0.04	-	-	-	-	-	-	-9.99
Oil refineries	-	-2142.19	2138.56	-0.57	-	-	-	-	-	-	-4.20
Petrochemical plants	-	26.72	-27.19	-	-	-	-	-	-	-	-0.47
Liquefaction plants	-0.54	0.99	-	-1.71	-	-	-	-	-	-	-1.27
Other transformation	0.01	0.15	-	-0.43	-	-	-	-0.13	-	-0.22	-0.63
Energy industry own use	-14.83	-0.13	-120.90	-99.31	-	-	-0.00	-0.20	-68.42	-8.16	-311.95
Losses	-0.93	-	-0.01	-2.81	-	-	-0.14	-0.03	-57.62	-5.07	-66.62
<b>TFC</b>	<b>134.12</b>	<b>5.07</b>	<b>1818.73</b>	<b>740.81</b>	<b>-</b>	<b>-</b>	<b>7.68</b>	<b>166.24</b>	<b>803.78</b>	<b>60.30</b>	<b>3736.73</b>
<b>INDUSTRY</b>	<b>108.92</b>	<b>2.13</b>	<b>124.26</b>	<b>255.10</b>	<b>-</b>	<b>-</b>	<b>0.43</b>	<b>73.46</b>	<b>268.26</b>	<b>25.05</b>	<b>857.62</b>
Iron and steel	40.90	-	5.33	25.56	-	-	-	0.23	31.39	0.52	103.93
Chemical and petrochem.	11.62	2.09	26.12	61.75	-	-	0.00	1.74	49.21	11.87	164.40
Non-ferrous metals	2.44	0.02	2.92	12.21	-	-	0.00	0.10	28.17	0.37	46.23
Non-metallic minerals	21.73	-	21.98	31.82	-	-	0.00	4.11	15.66	0.22	95.51
Transport equipment	0.24	-	1.40	9.50	-	-	0.00	0.01	10.42	0.79	22.35
Machinery	0.42	-	4.62	19.85	-	-	0.00	0.06	30.96	0.73	56.64
Mining and quarrying	0.75	0.01	6.99	10.35	-	-	-	0.01	9.90	0.22	28.23
Food and tobacco	5.77	-	9.90	31.16	-	-	0.00	5.10	20.64	1.74	74.31
Paper, pulp and printing	7.73	-	8.38	23.87	-	-	0.15	46.40	32.23	3.57	122.33
Wood and wood products	0.15	-	3.86	2.82	-	-	-	10.70	5.18	0.76	23.47
Construction	2.89	-	10.70	2.23	-	-	0.00	0.12	1.92	0.05	17.91
Textile and leather	0.53	0.01	1.49	6.08	-	-	0.00	0.07	6.93	0.92	16.04
Non-specified	13.78	-	20.57	17.90	-	-	0.28	4.81	25.64	3.28	86.25
<b>TRANSPORT</b>	<b>0.09</b>	<b>-</b>	<b>1144.11</b>	<b>22.35</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>30.02</b>	<b>9.78</b>	<b>-</b>	<b>1206.35</b>
Domestic aviation	-	-	74.35	-	-	-	-	-	-	-	74.35
Road	-	-	1031.92	2.27	-	-	-	30.01	0.00	-	1064.20
Rail	0.01	-	16.98	-	-	-	-	0.00	7.61	-	24.60
Pipeline transport	-	-	0.02	19.95	-	-	-	-	0.39	-	20.36
Domestic navigation	0.08	-	19.60	-	-	-	-	0.00	-	-	19.68
Non-specified	0.00	-	1.25	0.14	-	-	-	0.00	1.78	-	3.17
<b>OTHER</b>	<b>22.18</b>	<b>-</b>	<b>222.74</b>	<b>432.48</b>	<b>-</b>	<b>-</b>	<b>7.25</b>	<b>62.76</b>	<b>525.74</b>	<b>35.26</b>	<b>1308.40</b>
Residential	15.32	-	101.55	271.50	-	-	6.10	56.35	250.78	18.85	720.47
Comm. and public services	4.89	-	70.01	148.20	-	-	0.69	4.41	249.89	11.39	489.48
Agriculture/forestry	1.20	-	44.12	4.15	-	-	0.16	1.97	7.77	0.29	59.67
Fishing	0.01	-	4.21	0.00	-	-	0.03	-	0.24	0.02	4.51
Non-specified	0.76	-	2.85	8.62	-	-	0.27	0.02	17.05	4.71	34.28
<b>NON-ENERGY USE</b>	<b>2.93</b>	<b>2.94</b>	<b>327.61</b>	<b>30.88</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>364.36</b>
in industry/transf./energy	2.67	2.94	319.46	30.88	-	-	-	-	-	-	355.95
of which: feedstocks	1.08	2.94	221.03	29.73	-	-	-	-	-	-	254.78
in transport	-	-	4.46	-	-	-	-	-	-	-	4.46
in other	0.26	-	3.69	-	-	-	-	-	-	-	3.95
<b>Electricity and Heat Output</b>											
<b>Elec. generated - TWh</b>	<b>3949.13</b>	<b>35.10</b>	<b>364.30</b>	<b>2380.04</b>	<b>2278.68</b>	<b>1332.26</b>	<b>244.49</b>	<b>224.96</b>	<b>-</b>	<b>0.87</b>	<b>10809.81</b>
Electricity plants	3619.53	35.09	305.18	1841.41	2265.52	1332.26	242.12	125.88	-	0.42	9767.42
CHP plants	329.60	0.00	59.11	538.63	13.15	-	2.37	99.08	-	0.44	1042.39
<b>Heat generated - PJ</b>	<b>872.34</b>	<b>0.01</b>	<b>274.60</b>	<b>1412.34</b>	<b>4.82</b>	<b>-</b>	<b>23.89</b>	<b>465.90</b>	<b>6.89</b>	<b>40.19</b>	<b>3100.97</b>
CHP plants	724.17	0.01	246.13	1149.28	4.82	-	10.11	326.91	0.19	15.88	2477.49
Heat plants	148.18	-	28.47	263.07	-	-	13.77	138.99	6.70	24.30	623.47

\* Includes crude oil, NGL, refinery feedstocks, additives and other hydrocarbons.

## OECD Total : 2009

Million tonnes of oil equivalent											
SUPPLY AND CONSUMPTION	Coal & peat	Crude oil*	Oil products	Natural gas	Nuclear	Hydro	Geotherm. solar etc.	Biofuels & waste	Electricity	Heat	Total
Production	981.91	892.57	-	939.26	584.52	113.58	56.65	237.66	-	0.52	3806.68
Imports	342.97	1524.15	539.59	596.28	-	-	-	7.78	32.93	0.00	3043.71
Exports	-256.89	-352.62	-473.22	-281.09	-	-	-	-3.28	-32.15	-0.01	-1399.26
Intl. marine bunkers	-	-	-87.76	-	-	-	-	-	-	-	-87.76
Intl. aviation bunkers	-	-	-83.74	-	-	-	-	-	-	-	-83.74
Stock changes	-34.69	0.62	-1.43	-6.07	-	-	-	-0.34	-	-	-41.90
<b>TPES</b>	<b>1033.30</b>	<b>2064.72</b>	<b>-106.55</b>	<b>1248.38</b>	<b>584.52</b>	<b>113.58</b>	<b>56.65</b>	<b>241.82</b>	<b>0.78</b>	<b>0.52</b>	<b>5237.72</b>
Transfers	-	-28.31	42.09	-	-	-	-	-	-	-	13.78
Statistical differences	-10.25	-8.20	-13.34	-3.61	-	-	-0.01	0.03	0.17	-0.01	-35.23
Electricity plants	-761.16	-3.18	-55.52	-319.88	-581.84	-113.58	-46.92	-40.59	807.69	-0.15	-1115.14
CHP plants	-80.58	-	-14.57	-106.49	-2.68	-	-1.06	-28.91	86.97	57.60	-89.70
Heat plants	-4.45	-	-1.31	-7.30	-	-	-0.14	-4.76	-0.33	14.76	-3.54
Blast furnaces	-39.68	-	-0.62	-0.06	-	-	-	-	-	-	-40.36
Gas works	-2.03	-	-2.93	3.38	-	-	-	-0.02	-	-	-1.60
Coke/pat. fuel/BKB plants	-6.70	-	-0.93	-0.04	-	-	-	-	-	-	-7.68
Oil refineries	-	-2046.91	2043.84	-0.59	-	-	-	-	-	-	-3.65
Petrochemical plants	-	25.65	-26.09	-	-	-	-	-	-	-	-0.44
Liquefaction plants	-0.71	1.05	-	-1.96	-	-	-	-	-	-	-1.63
Other transformation	0.03	0.14	-0.09	-0.43	-	-	-	-0.12	-	-0.34	-0.82
Energy industry own use	-12.16	-0.14	-117.24	-99.81	-	-	-0.13	-0.20	-65.92	-8.07	-303.65
Losses	-0.76	-	-0.01	-2.94	-	-	-0.14	-0.03	-57.14	-5.09	-66.12
<b>TFC</b>	<b>114.83</b>	<b>4.83</b>	<b>1746.73</b>	<b>708.64</b>	<b>-</b>	<b>-</b>	<b>8.26</b>	<b>167.22</b>	<b>772.22</b>	<b>59.21</b>	<b>3581.93</b>
<b>INDUSTRY</b>	<b>90.44</b>	<b>2.01</b>	<b>111.56</b>	<b>236.30</b>	<b>-</b>	<b>-</b>	<b>0.30</b>	<b>68.79</b>	<b>239.40</b>	<b>23.96</b>	<b>772.75</b>
Iron and steel	32.90	-	4.46	21.33	-	-	-	0.15	28.00	0.74	87.60
Chemical and petrochem.	10.38	1.98	24.32	56.67	-	-	0.00	1.41	44.29	11.49	150.53
Non-ferrous metals	2.13	0.02	2.61	11.65	-	-	0.00	0.12	24.62	0.37	41.52
Non-metallic minerals	16.60	-	19.46	27.97	-	-	0.00	4.24	13.99	0.18	82.45
Transport equipment	0.18	-	1.20	8.59	-	-	0.00	0.01	9.23	0.75	19.96
Machinery	0.34	-	3.89	17.65	-	-	0.00	0.08	27.95	0.66	50.58
Mining and quarrying	0.61	0.01	6.87	12.51	-	-	-	0.02	9.17	0.16	29.35
Food and tobacco	5.48	-	8.70	29.34	-	-	0.00	4.76	19.67	1.73	69.68
Paper, pulp and printing	6.74	-	6.79	21.84	-	-	0.15	42.74	28.65	2.90	109.81
Wood and wood products	0.39	-	3.45	2.61	-	-	-	10.29	4.67	0.74	22.16
Construction	2.25	-	10.25	2.04	-	-	0.00	0.12	1.92	0.06	16.65
Textile and leather	0.40	0.01	1.20	5.65	-	-	0.00	0.08	6.26	1.00	14.60
Non-specified	12.03	-	18.36	18.43	-	-	0.14	4.77	20.97	3.17	77.87
<b>TRANSPORT</b>	<b>0.10</b>	<b>-</b>	<b>1105.78</b>	<b>20.82</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>35.30</b>	<b>9.56</b>	<b>-</b>	<b>1171.56</b>
Domestic aviation	-	-	67.36	-	-	-	-	-	-	-	67.36
Road	-	-	1004.18	2.59	-	-	-	35.29	0.00	-	1042.07
Rail	0.01	-	14.66	-	-	-	-	0.00	7.50	-	22.17
Pipeline transport	-	-	0.02	18.04	-	-	-	-	0.38	-	18.44
Domestic navigation	0.09	-	18.41	-	-	-	-	0.00	-	-	18.50
Non-specified	0.00	-	1.15	0.19	-	-	-	0.00	1.68	-	3.02
<b>OTHER</b>	<b>22.26</b>	<b>-</b>	<b>212.11</b>	<b>424.30</b>	<b>-</b>	<b>-</b>	<b>7.96</b>	<b>63.13</b>	<b>523.26</b>	<b>35.25</b>	<b>1288.27</b>
Residential	16.19	-	95.31	265.25	-	-	6.74	56.36	250.71	19.57	710.12
Comm. and public services	4.68	-	67.90	146.39	-	-	0.73	4.63	249.64	10.54	484.52
Agriculture/forestry	1.16	-	41.58	4.22	-	-	0.17	2.12	7.70	0.29	57.23
Fishing	0.01	-	4.41	0.01	-	-	0.03	-	0.24	0.02	4.71
Non-specified	0.23	-	2.92	8.43	-	-	0.28	0.02	14.97	4.84	31.70
<b>NON-ENERGY USE</b>	<b>2.04</b>	<b>2.81</b>	<b>317.27</b>	<b>27.22</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>349.35</b>
in industry/transf./energy	1.88	2.81	309.52	27.22	-	-	-	-	-	-	341.43
of which: feedstocks	0.85	2.81	222.45	26.18	-	-	-	-	-	-	252.30
in transport	-	-	4.16	-	-	-	-	-	-	-	4.16
in other	0.16	-	3.59	-	-	-	-	-	-	-	3.76
<b>Electricity and Heat Output</b>											
<b>Elec. generated - TWh</b>	<b>3620.29</b>	<b>16.36</b>	<b>308.04</b>	<b>2361.02</b>	<b>2242.47</b>	<b>1320.74</b>	<b>294.80</b>	<b>238.82</b>	<b>-</b>	<b>0.55</b>	<b>10403.09</b>
Electricity plants	3316.95	16.36	251.07	1828.89	2232.65	1320.74	290.89	133.70	-	0.19	9391.43
CHP plants	303.35	-	56.98	532.13	9.82	-	3.91	105.12	-	0.35	1011.66
<b>Heat generated - PJ</b>	<b>854.34</b>	<b>-</b>	<b>267.52</b>	<b>1363.79</b>	<b>5.06</b>	<b>-</b>	<b>17.39</b>	<b>491.81</b>	<b>7.40</b>	<b>44.74</b>	<b>3052.05</b>
CHP plants	716.16	-	231.38	1107.15	5.06	-	10.32	340.20	0.32	14.74	2425.33
Heat plants	138.18	-	36.14	256.64	-	-	7.07	151.62	7.08	30.00	626.72

\* Includes crude oil, NGL, refinery feedstocks, additives and other hydrocarbons.



## OECD Total

### Estimated energy supply balance for 2010

Million tonnes of oil equivalent											
SUPPLY	Coal & peat	Crude oil*	Oil products	Natural gas	Nuclear	Hydro	Geotherm. solar etc.	Biofuels & waste	Electricity	Heat	Total
Production	1003.03	895.15	-	967.18	596.41	115.20	61.64	249.97	-	0.50	3889.08
Imports	370.30	1529.09	557.34	638.14	-	-	-	8.78	34.36	0.00	3138.01
Exports	-299.76	-350.25	-497.59	-292.87	-	-	-	-4.00	-33.97	-0.01	-1478.45
Intl. marine bunkers	-	-	-85.91	-	-	-	-	-	-	-	-85.91
Intl. aviation bunkers	-	-	-83.96	-	-	-	-	-	-	-	-83.96
Stock changes	22.07	-1.17	1.65	11.40	-	-	-	0.09	-	-	34.03
<b>TPES</b>	<b>1095.65</b>	<b>2072.81</b>	<b>-108.47</b>	<b>1323.83</b>	<b>596.41</b>	<b>115.20</b>	<b>61.64</b>	<b>254.85</b>	<b>0.39</b>	<b>0.50</b>	<b>5412.81</b>
Electricity and Heat Output											
Elec. generated - TWh	3734.75	19.53	282.58	2515.53	2288.01	1339.51	338.52	253.04	-	0.78	10772.24
Heat generated - PJ	900.11	-	277.36	1426.69	5.96	-	17.49	534.59	7.52	29.77	3199.49

\* Includes crude oil, NGL, refinery feedstocks, additives and other hydrocarbons.

### Key indicators

	1960	1971	1980	1990	2000	2008	2009	2010e
Energy production (Mtoe)	..	2355.0	2913.3	3440.9	3829.4	3877.5	3806.7	3889.1
Net imports (Mtoe)	..	1144.7	1304.8	1251.0	1574.9	1816.8	1644.5	1659.6
Total primary energy supply (Mtoe)	..	3372.3	4068.3	4522.1	5292.2	5480.8	5237.7	5412.8
Net oil imports (Mtoe)	..	1124.8	1228.6	1084.7	1246.3	1361.9	1237.9	1238.6
Oil supply (Mtoe)	..	1707.5	1945.5	1869.9	2114.9	2059.2	1958.2	1964.3
Electricity consumption (TWh)*	..	3551.6	5259.9	7104.2	9173.4	10216.1	9813.1	10181.6
GDP (billion 2000 USD)	..	10790.4	14688.8	20182.0	26223.1	30711.6	29633.4	30508.2
GDP PPP (billion 2000 USD)	..	11553.0	15738.9	21349.1	28058.4	33241.7	32113.9	33068.9
Population (millions)	..	894.70	979.95	1064.06	1151.82	1217.46	1224.87	1230.86
Industrial production index (2005=100)	..	..	57.60	73.00	94.90	105.00	92.20	99.40
Total self-sufficiency**	..	0.6983	0.7161	0.7609	0.7236	0.7075	0.7268	0.7185
Coal and peat self-sufficiency**	..	0.9938	1.0031	0.9929	0.8782	0.9078	0.9503	0.9155
Oil self-sufficiency**	..	0.4061	0.4358	0.4937	0.4917	0.4339	0.4558	0.4557
Natural gas self-sufficiency**	..	1.0038	0.9243	0.8515	0.7811	0.7431	0.7524	0.7306
TPES/GDP (toe per thousand 2000 USD)	..	0.3125	0.2770	0.2241	0.2018	0.1785	0.1768	0.1774
TPES/GDP PPP (toe per thousand 2000 USD)	..	0.2919	0.2585	0.2118	0.1886	0.1649	0.1631	0.1637
TPES/population (toe per capita)	..	3.7692	4.1515	4.2499	4.5946	4.5018	4.2761	4.3976
Net oil imports/GDP (toe per thousand 2000 USD)	..	0.1042	0.0836	0.0537	0.0475	0.0443	0.0418	0.0406
Oil supply/GDP (toe per thousand 2000 USD)	..	0.1582	0.1324	0.0927	0.0806	0.0670	0.0661	0.0644
Oil supply/population (toe per capita)	..	1.9085	1.9853	1.7573	1.8361	1.6914	1.5987	1.5959
Elect. cons./GDP (kWh per 2000 USD)	..	0.3291	0.3581	0.3520	0.3498	0.3326	0.3312	0.3337
Elect. cons./population (kWh per capita)	..	3970	5368	6677	7964	8391	8012	8272
Industry cons.***/industrial production (2005=100)	..	..	163.02	121.20	106.93	92.15	96.35	..
Industry oil cons.***/industrial production (2005=100)	..	..	176.31	115.55	99.38	87.64	94.72	..

\* Electricity consumption equals domestic supply less losses.

\*\* Production divided by TPES.

\*\*\* Includes non-energy use.

Note: OECD Total excludes Estonia and Slovenia prior to 1990.

OECD Total

Figure 1. Energy production

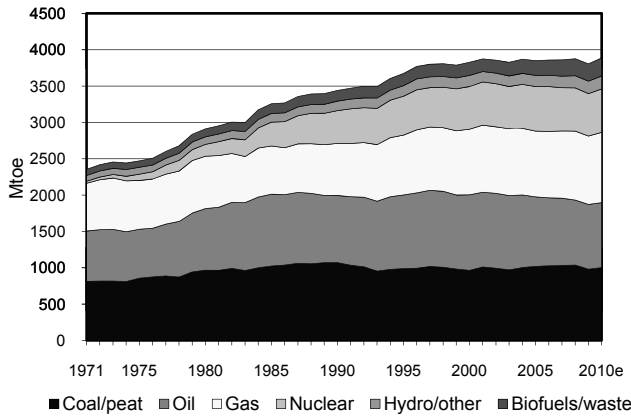


Figure 2. Total primary energy supply\*

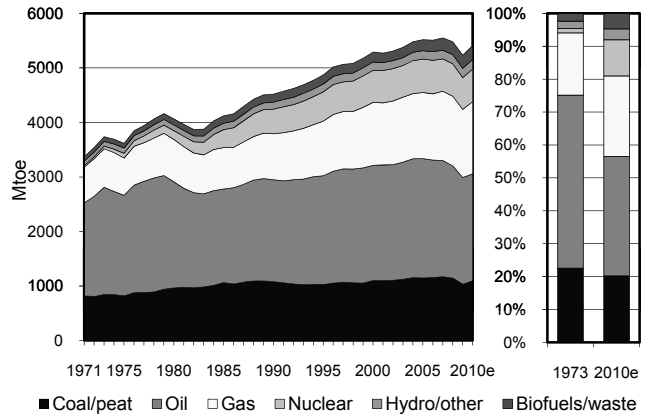


Figure 3. Energy self-sufficiency

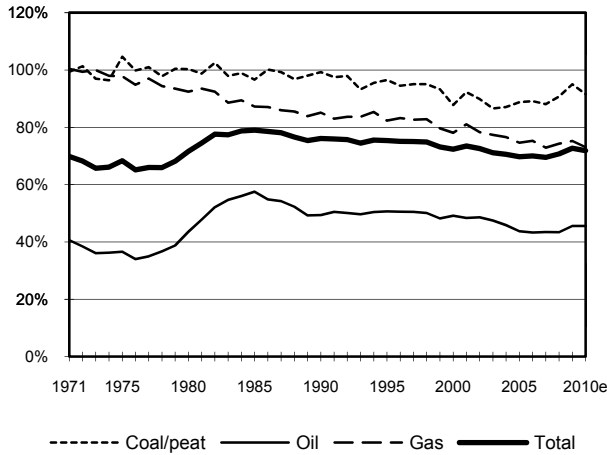


Figure 4. Breakdown of sectorial final consumption by source in 1973 and 2009\*\*

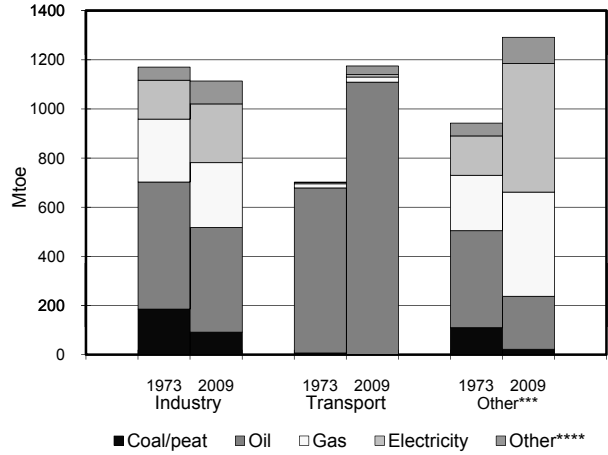


Figure 5. Electricity generation by fuel

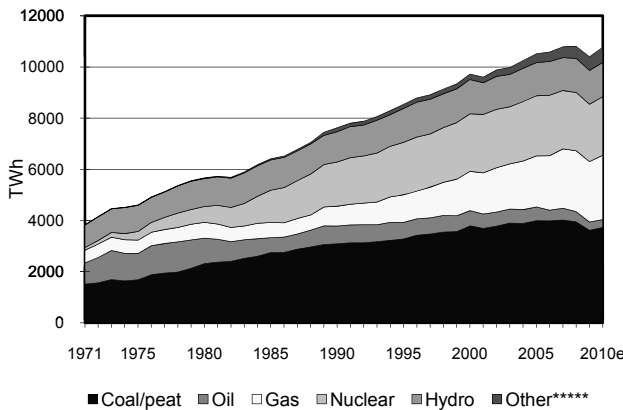
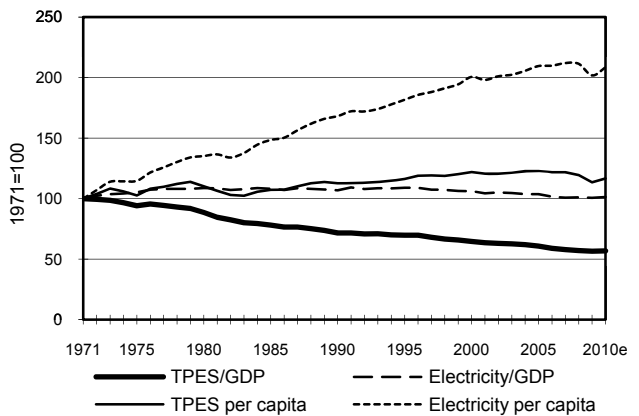


Figure 6. Selected indicators



\* Excluding electricity trade.  
 \*\* Includes non-energy use.  
 \*\*\* Includes residential, commercial and public services, agriculture/forestry, fishing and non-specified.  
 \*\*\*\* Includes biofuels and waste, direct use of geothermal/solar thermal and heat produced in CHP/heat plants.  
 \*\*\*\*\* Includes geothermal, solar, wind, biofuels and waste, etc.

## OECD Americas : 2008

Million tonnes of oil equivalent											
<b>SUPPLY AND CONSUMPTION</b>	Coal & peat	Crude oil*	Oil products	Natural gas	Nuclear	Hydro	Geotherm. solar etc.	Biofuels & waste	Electricity	Heat	Total
Production	619.41	640.18	-	654.02	245.38	59.72	21.11	110.46	-	-	2350.27
Imports	40.10	642.38	143.19	117.34	-	-	-	2.43	7.09	-	952.53
Exports	-67.57	-186.49	-115.27	-107.67	-	-	-	-2.58	-6.96	-	-486.54
Intl. marine bunkers	-	-	-28.43	-	-	-	-	-	-	-	-28.43
Intl. aviation bunkers	-	-	-28.08	-	-	-	-	-	-	-	-28.08
Stock changes	-6.26	-4.79	-0.78	6.34	-	-	-	-0.30	-	-	-5.80
<b>TPES</b>	<b>585.68</b>	<b>1091.27</b>	<b>-29.36</b>	<b>670.03</b>	<b>245.38</b>	<b>59.72</b>	<b>21.11</b>	<b>110.01</b>	<b>0.12</b>	<b>-</b>	<b>2753.95</b>
Transfers	-	-38.51	43.86	-	-	-	-	-	-	-	5.35
Statistical differences	-9.72	-16.61	-2.81	1.44	-	-	-	0.00	0.06	-0.05	-27.68
Electricity plants	-512.27	-	-27.04	-160.09	-245.38	-59.72	-19.37	-14.81	428.07	-	-610.59
CHP plants	-14.57	-	-2.96	-41.58	-	-	-	-7.83	28.20	13.52	-25.21
Heat plants	-	-	-	-	-	-	-	-0.06	-	0.03	-0.03
Blast furnaces	-6.58	-	-0.02	-	-	-	-	-	-	-	-6.60
Gas works	-1.86	-	-0.98	1.74	-	-	-	-0.00	-	-	-1.10
Coke/pat. fuel/BKB plants	-3.32	-	-	-	-	-	-	-	-	-	-3.32
Oil refineries	-	-1036.73	1040.66	-0.57	-	-	-	-	-	-	3.36
Petrochemical plants	-	-	-	-	-	-	-	-	-	-	-
Liquefaction plants	-	0.57	-	-1.71	-	-	-	-	-	-	-1.14
Other transformation	-	-	-	-	-	-	-	-	-	-	-
Energy industry own use	-2.23	-	-65.74	-73.41	-	-	-	-0.00	-33.12	-4.25	-178.75
Losses	-0.03	-	-	-	-	-	-	-	-30.45	-1.53	-32.01
<b>TFC</b>	<b>35.11</b>	<b>-</b>	<b>955.61</b>	<b>395.85</b>	<b>-</b>	<b>-</b>	<b>1.75</b>	<b>87.31</b>	<b>392.88</b>	<b>7.72</b>	<b>1876.23</b>
<b>INDUSTRY</b>	<b>33.01</b>	<b>-</b>	<b>47.73</b>	<b>146.29</b>	<b>-</b>	<b>-</b>	<b>0.12</b>	<b>42.53</b>	<b>106.65</b>	<b>6.17</b>	<b>382.51</b>
Iron and steel	7.46	-	1.41	12.20	-	-	-	0.00	8.37	0.20	29.64
Chemical and petrochem.	5.03	-	9.52	39.94	-	-	-	0.23	23.70	3.57	81.99
Non-ferrous metals	-	-	0.45	6.30	-	-	-	-	11.63	0.11	18.49
Non-metallic minerals	7.23	-	7.53	13.45	-	-	-	0.57	4.30	0.00	33.09
Transport equipment	0.12	-	0.66	6.18	-	-	-	0.00	4.14	0.13	11.24
Machinery	0.13	-	1.09	10.12	-	-	-	-	9.84	0.10	21.27
Mining and quarrying	0.45	-	4.21	9.09	-	-	-	-	7.21	-	20.97
Food and tobacco	3.88	-	3.52	16.91	-	-	-	1.79	7.55	0.61	34.25
Paper, pulp and printing	4.70	-	4.79	14.38	-	-	-	31.83	15.14	0.84	71.69
Wood and wood products	0.04	-	3.56	2.14	-	-	-	5.15	2.49	0.28	13.65
Construction	-	-	2.56	0.40	-	-	-	-	0.04	-	3.00
Textile and leather	0.19	-	0.24	2.96	-	-	-	-	2.45	0.16	6.00
Non-specified	3.79	-	8.18	12.22	-	-	0.12	2.95	9.80	0.16	37.23
<b>TRANSPORT</b>	<b>-</b>	<b>-</b>	<b>676.14</b>	<b>18.92</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>20.28</b>	<b>1.13</b>	<b>-</b>	<b>716.47</b>
Domestic aviation	-	-	58.53	-	-	-	-	-	-	-	58.53
Road	-	-	597.22	0.67	-	-	-	20.28	-	-	618.18
Rail	-	-	12.76	-	-	-	-	-	0.79	-	13.56
Pipeline transport	-	-	0.02	18.25	-	-	-	-	0.28	-	18.54
Domestic navigation	-	-	6.72	-	-	-	-	-	-	-	6.72
Non-specified	-	-	0.88	-	-	-	-	-	0.06	-	0.94
<b>OTHER</b>	<b>1.80</b>	<b>-</b>	<b>77.12</b>	<b>213.87</b>	<b>-</b>	<b>-</b>	<b>1.62</b>	<b>24.50</b>	<b>285.10</b>	<b>1.55</b>	<b>605.58</b>
Residential	0.04	-	32.76	129.82	-	-	1.48	21.83	137.23	-	323.17
Comm. and public services	1.75	-	23.80	83.56	-	-	0.14	2.31	130.30	1.55	243.42
Agriculture/forestry	-	-	20.43	0.49	-	-	-	0.36	1.52	0.00	22.79
Fishing	0.01	-	0.13	0.00	-	-	-	-	0.02	-	0.15
Non-specified	-	-	-	-	-	-	-	-	16.04	-	16.04
<b>NON-ENERGY USE</b>	<b>0.29</b>	<b>-</b>	<b>154.61</b>	<b>16.77</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>171.68</b>
in industry/transf./energy	0.29	-	151.34	16.77	-	-	-	-	-	-	168.41
of which: feedstocks	-	-	91.49	15.62	-	-	-	-	-	-	107.11
in transport	-	-	0.31	-	-	-	-	-	-	-	0.31
in other	-	-	2.96	-	-	-	-	-	-	-	2.96
<b>Electricity and Heat Output</b>											
<b>Elec. generated - TWh</b>	<b>2280.13</b>	<b>-</b>	<b>132.17</b>	<b>1085.50</b>	<b>941.56</b>	<b>694.38</b>	<b>86.59</b>	<b>85.16</b>	<b>-</b>	<b>-</b>	<b>5305.49</b>
Electricity plants	2218.23	-	116.90	876.33	941.56	694.38	86.23	43.94	-	-	4977.57
CHP plants	61.90	-	15.27	209.17	-	-	0.36	41.22	-	-	327.91
<b>Heat generated - PJ</b>	<b>96.44</b>	<b>-</b>	<b>42.15</b>	<b>382.38</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>46.52</b>	<b>-</b>	<b>-</b>	<b>567.48</b>
CHP plants	96.44	-	42.15	382.38	-	-	-	45.25	-	-	566.22
Heat plants	-	-	-	-	-	-	-	1.27	-	-	1.27

\* Includes crude oil, NGL, refinery feedstocks, additives and other hydrocarbons.

## OECD Americas : 2009

Million tonnes of oil equivalent											
<b>SUPPLY AND CONSUMPTION</b>	Coal & peat	Crude oil*	Oil products	Natural gas	Nuclear	Hydro	Geotherm. solar etc.	Biofuels & waste	Electricity	Heat	Total
Production	567.01	651.23	-	653.21	242.66	59.46	22.67	109.30	-	-	2305.54
Imports	27.29	587.03	123.89	116.07	-	-	-	0.90	6.20	-	861.38
Exports	-51.84	-178.89	-123.69	-103.87	-	-	-	-1.30	-6.12	-	-465.71
Intl. marine bunkers	-	-	-26.14	-	-	-	-	-	-	-	-26.14
Intl. aviation bunkers	-	-	-25.38	-	-	-	-	-	-	-	-25.38
Stock changes	-22.27	-2.02	-2.86	-1.79	-	-	-	-0.29	-	-	-29.24
<b>TPES</b>	<b>520.19</b>	<b>1057.35</b>	<b>-54.18</b>	<b>663.61</b>	<b>242.66</b>	<b>59.46</b>	<b>22.67</b>	<b>108.62</b>	<b>0.08</b>	<b>-</b>	<b>2620.46</b>
Transfers	-	-37.54	43.39	-	-	-	-	-	-	-	5.85
Statistical differences	-14.18	-11.53	-0.85	-3.64	-	-	-	0.09	0.16	-0.05	-29.99
Electricity plants	-456.36	-	-23.83	-164.05	-242.66	-59.46	-20.92	-14.43	410.40	-	-571.32
CHP plants	-12.47	-	-3.08	-41.33	-	-	-	-8.14	27.36	13.11	-24.55
Heat plants	-	-	-	-	-	-	-	-0.06	-	0.03	-0.03
Blast furnaces	-4.07	-	-0.00	-	-	-	-	-	-	-	-4.07
Gas works	-1.93	-	-0.94	1.84	-	-	-	-0.01	-	-	-1.02
Coke/pat. fuel/BKB plants	-2.19	-	-	-	-	-	-	-	-	-	-2.19
Oil refineries	-	-1008.86	1012.85	-0.59	-	-	-	-	-	-	3.40
Petrochemical plants	-	-	-	-	-	-	-	-	-	-	-
Liquefaction plants	-	0.59	-	-1.96	-	-	-	-	-	-	-1.37
Other transformation	-	-	-	-	-	-	-	-	-	-	-
Energy industry own use	-1.39	-	-63.20	-73.94	-	-	-	-0.00	-31.04	-4.15	-173.72
Losses	-0.02	-	-	-	-	-	-	-	-30.73	-1.49	-32.25
<b>TFC</b>	<b>27.59</b>	<b>-</b>	<b>910.17</b>	<b>379.94</b>	<b>-</b>	<b>-</b>	<b>1.76</b>	<b>86.06</b>	<b>376.23</b>	<b>7.46</b>	<b>1789.19</b>
<b>INDUSTRY</b>	<b>25.72</b>	<b>-</b>	<b>41.16</b>	<b>138.07</b>	<b>-</b>	<b>-</b>	<b>0.11</b>	<b>39.15</b>	<b>94.87</b>	<b>5.98</b>	<b>345.07</b>
Iron and steel	5.48	-	1.12	10.72	-	-	-	0.00	7.26	0.20	24.79
Chemical and petrochem.	4.19	-	7.67	36.63	-	-	-	0.17	20.74	3.47	72.88
Non-ferrous metals	-	-	0.42	5.73	-	-	-	-	10.60	0.11	16.86
Non-metallic minerals	4.85	-	7.12	12.30	-	-	-	0.54	3.69	0.00	28.50
Transport equipment	0.08	-	0.57	5.61	-	-	-	0.00	3.63	0.13	10.02
Machinery	0.09	-	0.97	9.17	-	-	-	-	8.59	0.10	18.92
Mining and quarrying	0.34	-	4.13	11.31	-	-	-	-	6.63	-	22.40
Food and tobacco	3.40	-	3.04	15.35	-	-	-	1.51	6.62	0.59	30.50
Paper, pulp and printing	3.89	-	3.83	13.28	-	-	-	28.95	13.10	0.76	63.82
Wood and wood products	0.03	-	3.17	1.94	-	-	-	4.80	2.18	0.27	12.39
Construction	-	-	2.34	0.31	-	-	-	-	0.04	-	2.69
Textile and leather	0.10	-	0.20	2.68	-	-	-	-	2.14	0.16	5.28
Non-specified	3.28	-	6.57	13.03	-	-	0.11	3.17	9.64	0.20	36.01
<b>TRANSPORT</b>	<b>-</b>	<b>-</b>	<b>648.94</b>	<b>17.33</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>22.96</b>	<b>1.12</b>	<b>-</b>	<b>690.35</b>
Domestic aviation	-	-	52.52	-	-	-	-	-	-	-	52.52
Road	-	-	578.82	0.75	-	-	-	22.96	-	-	602.54
Rail	-	-	10.67	-	-	-	-	-	0.80	-	11.47
Pipeline transport	-	-	0.02	16.58	-	-	-	-	0.25	-	16.86
Domestic navigation	-	-	6.13	-	-	-	-	-	-	-	6.13
Non-specified	-	-	0.78	-	-	-	-	-	0.06	-	0.83
<b>OTHER</b>	<b>1.65</b>	<b>-</b>	<b>75.90</b>	<b>209.78</b>	<b>-</b>	<b>-</b>	<b>1.64</b>	<b>23.94</b>	<b>280.24</b>	<b>1.47</b>	<b>594.63</b>
Residential	0.04	-	31.32	126.31	-	-	1.50	21.34	135.93	-	316.43
Comm. and public services	1.60	-	25.65	82.96	-	-	0.14	2.27	128.75	1.47	242.84
Agriculture/forestry	-	-	18.79	0.51	-	-	-	0.34	1.63	0.00	21.28
Fishing	0.01	-	0.15	0.01	-	-	-	-	0.01	-	0.17
Non-specified	-	-	-	-	-	-	-	-	13.91	-	13.91
<b>NON-ENERGY USE</b>	<b>0.22</b>	<b>-</b>	<b>144.18</b>	<b>14.75</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>159.14</b>
in industry/transf./energy	0.22	-	140.89	14.75	-	-	-	-	-	-	155.86
<i>of which: feedstocks</i>	-	-	90.84	13.70	-	-	-	-	-	-	104.54
in transport	-	-	0.29	-	-	-	-	-	-	-	0.29
in other	-	-	2.99	-	-	-	-	-	-	-	2.99
<b>Electricity and Heat Output</b>											
<b>Elec. generated - TWh</b>	<b>2028.72</b>	<b>-</b>	<b>116.64</b>	<b>1129.67</b>	<b>931.13</b>	<b>691.45</b>	<b>106.65</b>	<b>85.99</b>	<b>-</b>	<b>-</b>	<b>5090.26</b>
Electricity plants	1978.23	-	100.67	920.50	931.13	691.45	106.29	43.84	-	-	4772.09
CHP plants	50.50	-	15.97	209.18	-	-	0.37	42.16	-	-	318.17
<b>Heat generated - PJ</b>	<b>104.04</b>	<b>-</b>	<b>40.14</b>	<b>356.66</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>49.55</b>	<b>-</b>	<b>-</b>	<b>550.39</b>
CHP plants	104.04	-	40.14	356.66	-	-	-	48.14	-	-	548.98
Heat plants	-	-	-	-	-	-	-	1.41	-	-	1.41

\* Includes crude oil, NGL, refinery feedstocks, additives and other hydrocarbons.

## OECD Americas

## Estimated energy supply balance for 2010

Million tonnes of oil equivalent											
SUPPLY	Coal & peat	Crude oil*	Oil products	Natural gas	Nuclear	Hydro	Geotherm. solar etc.	Biofuels & waste	Electricity	Heat	Total
Production	578.02	670.09	-	675.17	243.70	57.58	24.77	114.59	-	-	2363.92
Imports	27.45	584.81	130.45	119.67	-	-	-	0.47	5.29	-	868.14
Exports	-67.97	-187.88	-135.68	-104.17	-	-	-	-0.89	-5.93	-	-502.53
Intl. marine bunkers	-	-	-25.78	-	-	-	-	-	-	-	-25.78
Intl. aviation bunkers	-	-	-25.83	-	-	-	-	-	-	-	-25.83
Stock changes	11.08	-0.78	-1.39	4.68	-	-	-	-0.10	-	-	13.48
<b>TPES</b>	<b>548.57</b>	<b>1066.24</b>	<b>-58.23</b>	<b>695.35</b>	<b>243.70</b>	<b>57.58</b>	<b>24.77</b>	<b>114.07</b>	<b>-0.64</b>	<b>-</b>	<b>2691.41</b>
Electricity and Heat Output											
Elec. generated - TWh	2138.27	-	108.37	1202.06	935.14	669.57	129.12	83.42	-	-	5265.94
Heat generated - PJ	106.77	-	38.09	374.93	-	-	-	52.80	-	-	572.59

\* Includes crude oil, NGL, refinery feedstocks, additives and other hydrocarbons.

## Key indicators

	1960	1971	1980	1990	2000	2008	2009	2010e
Energy production (Mtoe)	..	1641.0	1913.5	2128.4	2270.4	2350.3	2305.5	2363.9
Net imports (Mtoe)	..	168.5	249.8	219.7	424.8	466.0	395.7	365.6
Total primary energy supply (Mtoe)	..	1780.5	2101.9	2259.6	2694.6	2754.0	2620.5	2691.4
Net oil imports (Mtoe)	..	195.8	304.3	295.1	446.0	483.8	408.3	391.7
Oil supply (Mtoe)	..	824.3	955.0	920.1	1059.0	1061.9	1003.2	1008.0
Electricity consumption (TWh)*	..	1796.9	2625.3	3487.5	4595.2	4978.2	4756.7	4925.5
GDP (billion 2000 USD)	..	4386.5	5960.5	8100.8	11335.8	13412.4	13031.5	13426.9
GDP PPP (billion 2000 USD)	..	4581.0	6278.6	8498.1	11903.1	14109.4	13697.2	14124.6
Population (millions)	..	289.31	329.13	372.30	426.76	461.50	465.60	469.81
Industrial production index (2005=100)	..	..	..	..	..	..	..	..
Total self-sufficiency**	..	0.9216	0.9104	0.9419	0.8426	0.8534	0.8798	0.8783
Coal and peat self-sufficiency**	..	1.0912	1.1743	1.1930	1.0030	1.0576	1.0900	1.0537
Oil self-sufficiency**	..	0.7876	0.7314	0.7397	0.6285	0.6029	0.6492	0.6648
Natural gas self-sufficiency**	..	1.0150	0.9968	1.0263	0.9505	0.9761	0.9843	0.9710
TPES/GDP (toe per thousand 2000 USD)	..	0.4059	0.3526	0.2789	0.2377	0.2053	0.2011	0.2004
TPES/GDP PPP (toe per thousand 2000 USD)	..	0.3887	0.3348	0.2659	0.2264	0.1952	0.1913	0.1905
TPES/population (toe per capita)	..	6.1544	6.3861	6.0693	6.3141	5.9675	5.6282	5.7287
Net oil imports/GDP (toe per thousand 2000 USD)	..	0.0446	0.0511	0.0364	0.0393	0.0361	0.0313	0.0292
Oil supply/GDP (toe per thousand 2000 USD)	..	0.1879	0.1602	0.1136	0.0934	0.0792	0.0770	0.0751
Oil supply/population (toe per capita)	..	2.8493	2.9015	2.4714	2.4814	2.3010	2.1546	2.1455
Elect. cons./GDP (kWh per 2000 USD)	..	0.4096	0.4404	0.4305	0.4054	0.3712	0.3650	0.3668
Elect. cons./population (kWh per capita)	..	6211	7976	9368	10768	10787	10217	10484
Industry cons.***/industrial production (2005=100)	..	..	..	..	..	..	..	..
Industry oil cons.***/industrial production (2005=100)	..	..	..	..	..	..	..	..

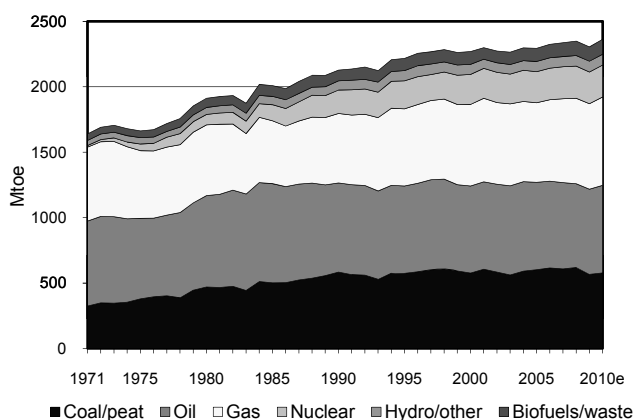
\* Electricity consumption equals domestic supply less losses.

\*\* Production divided by TPES.

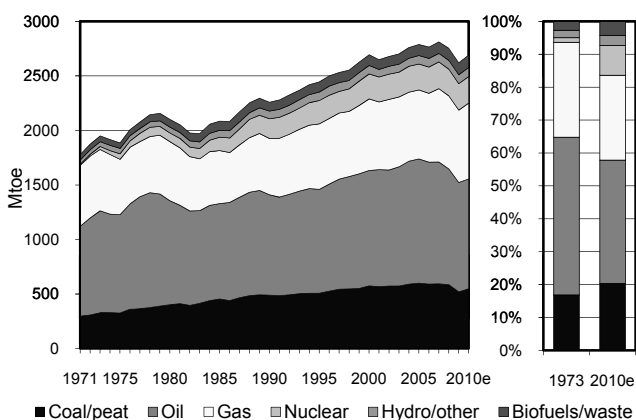
\*\*\* Includes non-energy use.

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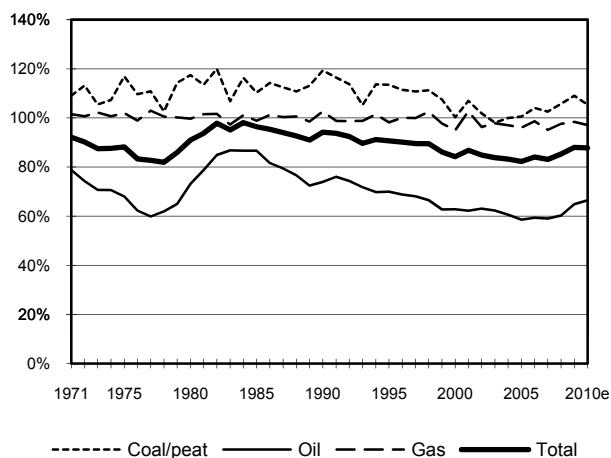
**Figure 1. Energy production**



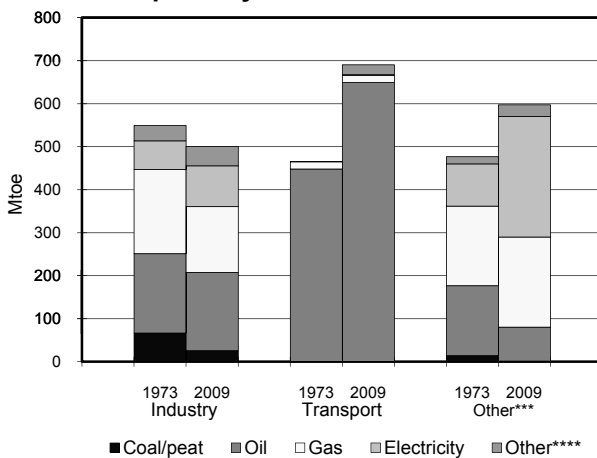
**Figure 2. Total primary energy supply\***



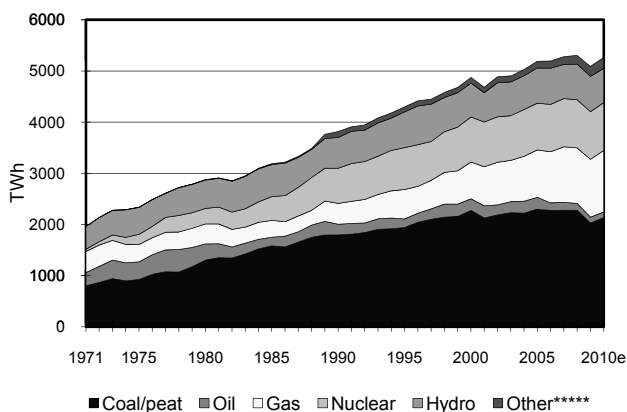
**Figure 3. Energy self-sufficiency**



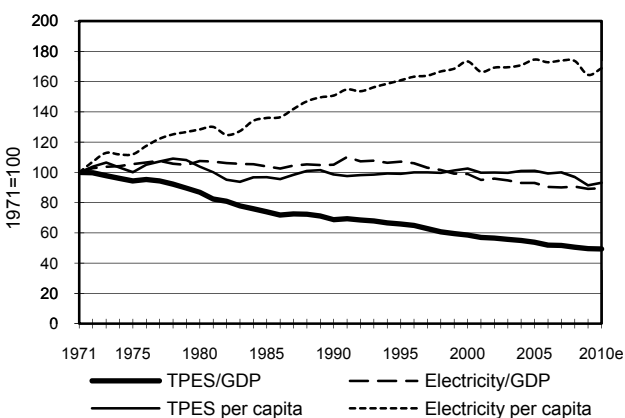
**Figure 4. Breakdown of sectorial final consumption by source in 1973 and 2009\*\***



**Figure 5. Electricity generation by fuel**



**Figure 6. Selected indicators**



\* Excluding electricity trade.

\*\* Includes non-energy use.

\*\*\* Includes residential, commercial and public services, agriculture/forestry, fishing and non-specified.

\*\*\*\* Includes biofuels and waste, direct use of geothermal/solar thermal and heat produced in CHP/heat plants.

\*\*\*\*\* Includes geothermal, solar, wind, biofuels and waste, etc.

## OECD Asia Oceania : 2008

Million tonnes of oil equivalent											
<b>SUPPLY AND CONSUMPTION</b>	Coal & peat	Crude oil*	Oil products	Natural gas	Nuclear	Hydro	Geotherm. solar etc.	Biofuels & waste	Electricity	Heat	Total
Production	234.60	28.10	-	49.37	106.61	9.79	7.76	17.05	-	0.08	453.35
Imports	184.48	359.78	87.86	117.82	-	-	-	0.03	-	-	749.98
Exports	-175.05	-17.89	-69.63	-15.99	-	-	-	-	-0.32	-	-278.88
Intl. marine bunkers	-	-	-16.12	-	-	-	-	-	-	-	-16.12
Intl. aviation bunkers	-	-	-14.40	-	-	-	-	-	-	-	-14.40
Stock changes	-3.10	1.40	0.68	-1.45	-	-	-	0.00	-	-	-2.47
<b>TPES</b>	<b>240.92</b>	<b>371.39</b>	<b>-11.61</b>	<b>149.76</b>	<b>106.61</b>	<b>9.79</b>	<b>7.76</b>	<b>17.09</b>	<b>-0.32</b>	<b>0.08</b>	<b>891.47</b>
Transfers	-	1.22	3.59	-	-	-	-	-	-	-	4.81
Statistical differences	-5.32	-3.77	-3.41	0.72	-	-	-0.00	-0.00	-0.18	0.00	-11.96
Electricity plants	-156.08	-6.91	-23.78	-72.83	-106.61	-9.79	-5.55	-5.27	156.75	-0.05	-230.12
CHP plants	-5.92	-	-1.54	-5.70	-	-	-0.03	-1.15	4.70	4.46	-5.19
Heat plants	-0.01	-	-0.37	-0.42	-	-	-	-0.35	-0.10	0.91	-0.35
Blast furnaces	-23.77	-	-	-0.08	-	-	-	-	-	-	-23.85
Gas works	0.08	-	-1.77	1.41	-	-	-	-	-	-	-0.29
Coke/pat. fuel/BKB plants	-1.31	-	-0.42	-	-	-	-	-	-	-	-1.73
Oil refineries	-	-374.29	371.07	-	-	-	-	-	-	-	-3.22
Petrochemical plants	-	12.89	-12.89	-	-	-	-	-	-	-	0.00
Liquefaction plants	-	-	-	-	-	-	-	-	-	-	-
Other transformation	-	-	-	-	-	-	-	-0.02	-	-	-0.02
Energy industry own use	-5.69	-0.13	-16.96	-8.10	-	-	-	-	-10.29	-0.02	-41.20
Losses	-0.01	-	-	-0.02	-	-	-	-	-7.44	-0.08	-7.55
<b>TFC</b>	<b>42.89</b>	<b>0.40</b>	<b>301.90</b>	<b>64.73</b>	<b>-</b>	<b>-</b>	<b>2.19</b>	<b>10.30</b>	<b>143.12</b>	<b>5.29</b>	<b>570.82</b>
<b>INDUSTRY</b>	<b>40.18</b>	<b>0.06</b>	<b>33.94</b>	<b>21.87</b>	<b>-</b>	<b>-</b>	<b>0.15</b>	<b>7.97</b>	<b>54.08</b>	<b>2.99</b>	<b>161.25</b>
Iron and steel	16.70	-	2.13	3.84	-	-	-	0.11	10.18	-	32.96
Chemical and petrochem.	3.43	0.02	9.39	3.53	-	-	-	0.25	7.96	1.87	26.45
Non-ferrous metals	1.95	0.02	1.55	3.16	-	-	-	0.06	6.63	0.07	13.44
Non-metallic minerals	8.02	-	2.99	2.13	-	-	-	0.73	3.40	-	17.27
Transport equipment	-	-	0.23	0.52	-	-	-	-	1.56	-	2.31
Machinery	0.11	-	1.27	2.23	-	-	-	0.01	11.32	0.05	14.99
Mining and quarrying	0.14	0.01	1.95	0.74	-	-	-	-	1.31	-	4.15
Food and tobacco	0.27	-	2.39	2.43	-	-	-	2.06	3.06	0.13	10.34
Paper, pulp and printing	1.69	-	1.73	1.12	-	-	0.15	2.92	4.39	0.31	12.30
Wood and wood products	-	-	0.04	0.06	-	-	-	1.17	0.27	-	1.55
Construction	0.00	-	4.55	0.78	-	-	-	-	0.18	-	5.50
Textile and leather	0.13	0.01	0.52	0.54	-	-	-	0.01	1.19	0.57	2.96
Non-specified	7.74	-	5.21	0.80	-	-	0.00	0.66	2.61	-	17.03
<b>TRANSPORT</b>	<b>0.08</b>	<b>-</b>	<b>142.16</b>	<b>1.12</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.31</b>	<b>2.06</b>	<b>-</b>	<b>145.74</b>
Domestic aviation	-	-	6.24	-	-	-	-	-	-	-	6.24
Road	-	-	129.45	0.75	-	-	-	0.31	-	-	130.51
Rail	-	-	1.22	-	-	-	-	-	2.02	-	3.24
Pipeline transport	-	-	0.00	0.35	-	-	-	-	0.00	-	0.35
Domestic navigation	0.08	-	5.00	-	-	-	-	-	-	-	5.08
Non-specified	0.00	-	0.26	0.02	-	-	-	-	0.04	-	0.33
<b>OTHER</b>	<b>1.79</b>	<b>-</b>	<b>50.94</b>	<b>40.32</b>	<b>-</b>	<b>-</b>	<b>2.04</b>	<b>2.01</b>	<b>86.98</b>	<b>2.30</b>	<b>186.39</b>
Residential	1.07	-	17.72	20.36	-	-	1.72	1.63	36.85	1.50	80.86
Comm. and public services	0.68	-	23.50	19.92	-	-	0.22	0.38	48.38	0.80	93.87
Agriculture/forestry	0.04	-	5.13	0.04	-	-	0.10	-	1.10	-	6.42
Fishing	-	-	2.65	-	-	-	-	-	0.17	-	2.82
Non-specified	-	-	1.94	-	-	-	-	0.01	0.48	-	2.42
<b>NON-ENERGY USE</b>	<b>0.83</b>	<b>0.34</b>	<b>74.85</b>	<b>1.42</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>77.45</b>
in industry/transf./energy	0.83	0.34	73.43	1.42	-	-	-	-	-	-	76.02
of which: feedstocks	0.83	0.34	64.03	1.42	-	-	-	-	-	-	66.63
in transport	-	-	1.35	-	-	-	-	-	-	-	1.35
in other	-	-	0.07	-	-	-	-	-	-	-	0.07
<b>Electricity and Heat Output</b>											
<b>Elec. generated - TWh</b>	<b>721.50</b>	<b>35.09</b>	<b>128.21</b>	<b>425.73</b>	<b>409.09</b>	<b>113.79</b>	<b>17.43</b>	<b>26.42</b>	<b>-</b>	<b>0.12</b>	<b>1877.37</b>
Electricity plants	697.69	35.09	124.43	400.37	409.09	113.79	17.38	24.78	-	0.04	1822.66
CHP plants	23.82	-	3.78	25.36	-	-	0.05	1.64	-	0.08	54.72
<b>Heat generated - PJ</b>	<b>42.51</b>	<b>-</b>	<b>87.29</b>	<b>72.09</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>19.26</b>	<b>3.68</b>	<b>3.20</b>	<b>228.04</b>
CHP plants	42.01	-	84.82	54.64	-	-	-	5.22	-	2.77	189.46
Heat plants	0.50	-	2.47	17.45	-	-	-	14.04	3.68	0.44	38.58

\* Includes crude oil, NGL, refinery feedstocks, additives and other hydrocarbons.

## OECD Asia Oceania : 2009

Million tonnes of oil equivalent											
<b>SUPPLY AND CONSUMPTION</b>	Coal & peat	Crude oil*	Oil products	Natural gas	Nuclear	Hydro	Geotherm. solar etc.	Biofuels & waste	Electricity	Heat	Total
Production	240.46	29.66	-	50.76	111.41	9.84	8.52	16.51	-	0.11	467.28
Imports	172.51	336.70	92.65	114.34	-	-	-	0.03	-	-	716.22
Exports	-181.40	-18.10	-65.94	-18.02	-	-	-	-	-0.33	-	-283.78
Intl. marine bunkers	-	-	-14.62	-	-	-	-	-	-	-	-14.62
Intl. aviation bunkers	-	-	-13.56	-	-	-	-	-	-	-	-13.56
Stock changes	-1.49	-0.67	1.39	0.44	-	-	-	-0.01	-	-	-0.35
<b>TPES</b>	<b>230.09</b>	<b>347.59</b>	<b>-0.09</b>	<b>147.52</b>	<b>111.41</b>	<b>9.84</b>	<b>8.52</b>	<b>16.53</b>	<b>-0.33</b>	<b>0.11</b>	<b>871.19</b>
Transfers	-	1.79	3.84	-	-	-	-	-	-	-	5.63
Statistical differences	3.58	-0.17	-6.02	2.44	-	-	-	0.01	0.00	0.04	-0.12
Electricity plants	-160.39	-3.18	-18.01	-71.66	-111.41	-9.84	-6.27	-5.04	154.93	-0.06	-230.94
CHP plants	-5.86	-	-1.39	-5.19	-	-	-0.03	-1.11	4.34	4.05	-5.19
Heat plants	-	-	-0.38	-0.43	-	-	-	-0.41	-0.09	0.99	-0.32
Blast furnaces	-21.29	-	-	-0.05	-	-	-	-	-	-	-21.34
Gas works	0.06	-	-1.79	1.43	-	-	-	-	-	-	-0.30
Coke/pat. fuel/BKB plants	-2.27	-	-0.43	-	-	-	-	-	-	-	-2.70
Oil refineries	-	-357.51	356.30	-	-	-	-	-	-	-	-1.21
Petrochemical plants	-	12.09	-12.06	-	-	-	-	-	-	-	0.03
Liquefaction plants	-	-	-	-	-	-	-	-	-	-	-
Other transformation	-	-	-	-	-	-	-	-0.02	-	-	-0.02
Energy industry own use	-5.31	-0.14	-16.62	-8.66	-	-	-	-	-10.41	-0.02	-41.15
Losses	-0.01	-	-	-0.02	-	-	-	-	-7.67	-0.12	-7.81
<b>TFC</b>	<b>38.61</b>	<b>0.48</b>	<b>303.35</b>	<b>65.38</b>	<b>-</b>	<b>-</b>	<b>2.22</b>	<b>9.95</b>	<b>140.78</b>	<b>4.99</b>	<b>565.76</b>
<b>INDUSTRY</b>	<b>36.27</b>	<b>0.06</b>	<b>34.29</b>	<b>22.17</b>	<b>-</b>	<b>-</b>	<b>0.15</b>	<b>7.46</b>	<b>50.50</b>	<b>2.70</b>	<b>153.61</b>
Iron and steel	15.50	-	1.80	3.68	-	-	-	0.11	10.14	0.01	31.25
Chemical and petrochem.	3.12	0.02	10.61	3.71	-	-	-	0.25	7.81	1.49	27.01
Non-ferrous metals	1.70	0.02	1.42	3.19	-	-	-	0.08	5.94	0.08	12.43
Non-metallic minerals	6.97	-	2.97	2.16	-	-	-	0.67	3.27	-	16.03
Transport equipment	-	-	0.20	0.49	-	-	-	-	1.51	-	2.20
Machinery	0.11	-	1.15	2.05	-	-	-	0.02	10.77	0.04	14.13
Mining and quarrying	0.14	0.01	2.01	0.75	-	-	-	-	1.30	-	4.21
Food and tobacco	0.52	-	2.36	2.62	-	-	-	2.00	3.09	0.20	10.80
Paper, pulp and printing	1.68	-	1.43	1.15	-	-	0.15	2.76	4.20	0.16	11.53
Wood and wood products	0.02	-	0.04	0.10	-	-	-	1.07	0.27	0.02	1.51
Construction	0.00	-	4.59	0.80	-	-	-	-	0.17	-	5.55
Textile and leather	0.13	0.01	0.42	0.52	-	-	-	0.01	1.15	0.70	2.94
Non-specified	6.39	-	5.28	0.96	-	-	0.00	0.50	0.88	-	14.01
<b>TRANSPORT</b>	<b>0.09</b>	<b>-</b>	<b>140.30</b>	<b>1.31</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.46</b>	<b>2.11</b>	<b>-</b>	<b>144.28</b>
Domestic aviation	-	-	6.06	-	-	-	-	-	-	-	6.06
Road	-	-	128.02	0.93	-	-	-	0.46	-	-	129.41
Rail	-	-	1.22	-	-	-	-	-	2.07	-	3.29
Pipeline transport	-	-	0.00	0.36	-	-	-	-	0.00	-	0.36
Domestic navigation	0.09	-	4.75	-	-	-	-	-	-	-	4.84
Non-specified	0.00	-	0.25	0.02	-	-	-	-	0.04	-	0.32
<b>OTHER</b>	<b>1.54</b>	<b>-</b>	<b>48.44</b>	<b>40.44</b>	<b>-</b>	<b>-</b>	<b>2.07</b>	<b>2.03</b>	<b>88.16</b>	<b>2.29</b>	<b>184.97</b>
Residential	0.92	-	17.05	20.46	-	-	1.74	1.55	37.07	1.57	80.36
Comm. and public services	0.60	-	21.45	19.94	-	-	0.23	0.47	49.28	0.72	92.70
Agriculture/forestry	0.02	-	5.18	0.05	-	-	0.10	-	1.14	-	6.48
Fishing	-	-	2.78	-	-	-	-	-	0.17	-	2.95
Non-specified	-	-	1.98	-	-	-	-	0.01	0.50	-	2.48
<b>NON-ENERGY USE</b>	<b>0.71</b>	<b>0.43</b>	<b>80.32</b>	<b>1.45</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>82.90</b>
in industry/transf./energy	0.71	0.43	78.88	1.45	-	-	-	-	-	-	81.46
of which: feedstocks	0.71	0.43	69.27	1.45	-	-	-	-	-	-	71.85
in transport	-	-	1.40	-	-	-	-	-	-	-	1.40
in other	-	-	0.03	-	-	-	-	-	-	-	0.03
<b>Electricity and Heat Output</b>											
<b>Elec. generated - TWh</b>	<b>729.34</b>	<b>16.36</b>	<b>99.94</b>	<b>418.07</b>	<b>427.52</b>	<b>114.48</b>	<b>20.65</b>	<b>25.53</b>	<b>-</b>	<b>0.14</b>	<b>1852.04</b>
Electricity plants	707.98	16.36	95.19	395.40	427.52	114.48	20.60	23.90	-	-	1801.43
CHP plants	21.36	-	4.75	22.67	-	-	0.05	1.64	-	0.14	50.61
<b>Heat generated - PJ</b>	<b>51.18</b>	<b>-</b>	<b>67.58</b>	<b>68.70</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>20.25</b>	<b>3.49</b>	<b>4.48</b>	<b>215.67</b>
CHP plants	51.18	-	63.46	51.12	-	-	-	3.85	-	4.48	174.09
Heat plants	-	-	4.12	17.58	-	-	-	16.40	3.49	-	41.58

\* Includes crude oil, NGL, refinery feedstocks, additives and other hydrocarbons.



## OECD Asia Oceania

## Estimated energy supply balance for 2010

Million tonnes of oil equivalent											
SUPPLY	Coal & peat	Crude oil*	Oil products	Natural gas	Nuclear	Hydro	Geotherm. solar etc.	Biofuels & waste	Electricity	Heat	Total
Production	254.46	28.03	-	53.03	113.84	9.89	9.06	15.57	-	0.10	483.98
Imports	196.23	343.35	97.57	127.16	-	-	-	0.02	-	-	764.32
Exports	-205.75	-19.51	-67.10	-21.63	-	-	-	-	-0.33	-	-314.32
Intl. marine bunkers	-	-	-14.92	-	-	-	-	-	-	-	-14.92
Intl. aviation bunkers	-	-	-14.00	-	-	-	-	-	-	-	-14.00
Stock changes	4.68	-0.72	-0.36	-1.20	-	-	-	0.00	-	-	2.40
<b>TPES</b>	<b>249.61</b>	<b>351.15</b>	<b>1.20</b>	<b>157.35</b>	<b>113.84</b>	<b>9.89</b>	<b>9.06</b>	<b>15.59</b>	<b>-0.33</b>	<b>0.10</b>	<b>907.47</b>
Electricity and Heat Output											
Elec. generated - TWh	728.71	19.53	94.81	464.20	436.83	115.05	23.07	25.27	-	0.14	1907.61
Heat generated - PJ	51.18	-	68.05	70.34	-	-	-	18.62	3.85	4.37	216.41

\* Includes crude oil, NGL, refinery feedstocks, additives and other hydrocarbons.

## Key indicators

	1960	1971	1980	1990	2000	2008	2009	2010e
Energy production (Mtoe)	..	105.4	143.6	267.2	388.5	453.4	467.3	484.0
Net imports (Mtoe)	..	266.4	345.7	396.9	489.1	471.1	432.4	450.0
Total primary energy supply (Mtoe)	..	348.8	472.1	642.9	850.2	891.5	871.2	907.5
Net oil imports (Mtoe)	..	246.3	303.0	331.5	399.8	360.1	345.3	354.3
Oil supply (Mtoe)	..	242.7	302.1	343.7	405.4	359.8	347.5	352.4
Electricity consumption (TWh)*	..	439.7	704.2	1097.9	1560.5	1796.9	1768.9	1826.0
GDP (billion 2000 USD)	..	2066.8	3048.2	4833.0	5789.9	6648.3	6389.9	6651.1
GDP PPP (billion 2000 USD)	..	1625.9	2399.3	3843.9	4828.3	5706.4	5532.7	5766.2
Population (millions)	..	157.02	177.03	191.70	203.36	209.35	209.95	209.83
Industrial production index (2005=100)	..	..	..	..	..	..	..	..
Total self-sufficiency**	..	0.3021	0.3041	0.4156	0.4570	0.5085	0.5364	0.5333
Coal and peat self-sufficiency**	..	0.7514	0.7116	0.8503	0.8837	0.9737	1.0451	1.0194
Oil self-sufficiency**	..	0.0886	0.0737	0.0922	0.0920	0.0781	0.0854	0.0796
Natural gas self-sufficiency**	..	0.7802	0.3467	0.3500	0.3354	0.3297	0.3441	0.3370
TPES/GDP (toe per thousand 2000 USD)	..	0.1687	0.1549	0.1330	0.1468	0.1341	0.1363	0.1364
TPES/GDP PPP (toe per thousand 2000 USD)	..	0.2145	0.1968	0.1673	0.1761	0.1562	0.1575	0.1574
TPES/population (toe per capita)	..	2.2211	2.6670	3.3538	4.1807	4.2583	4.1495	4.3249
Net oil imports/GDP (toe per thousand 2000 USD)	..	0.1192	0.0994	0.0686	0.0691	0.0542	0.0540	0.0533
Oil supply/GDP (toe per thousand 2000 USD)	..	0.1174	0.0991	0.0711	0.0700	0.0541	0.0544	0.0530
Oil supply/population (toe per capita)	..	1.5458	1.7066	1.7931	1.9933	1.7186	1.6551	1.6792
Elect. cons./GDP (kWh per 2000 USD)	..	0.2127	0.2310	0.2272	0.2695	0.2703	0.2768	0.2745
Elect. cons./population (kWh per capita)	..	2800	3978	5727	7674	8583	8425	8702
Industry cons.***/industrial production (2005=100)	..	..	..	..	..	..	..	..
Industry oil cons.***/industrial production (2005=100)	..	..	..	..	..	..	..	..

\* Electricity consumption equals domestic supply less losses.

\*\* Production divided by TPES.

\*\*\* Includes non-energy use.

## OECD Asia Oceania

Figure 1. Energy production

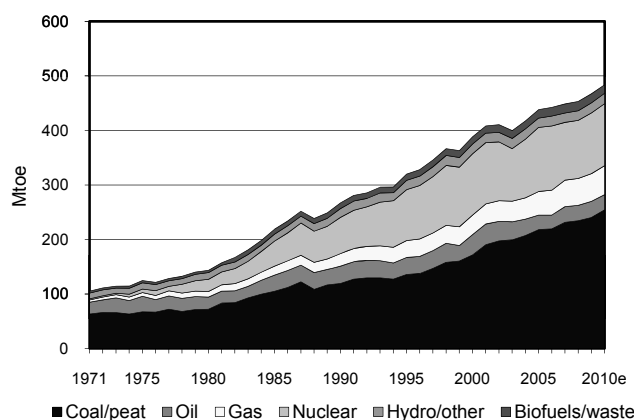


Figure 2. Total primary energy supply\*

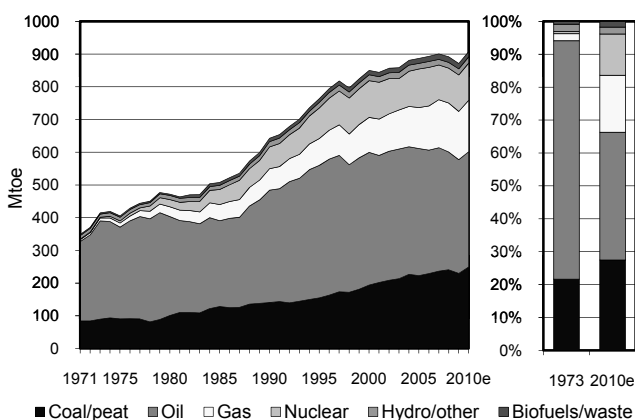


Figure 3. Energy self-sufficiency

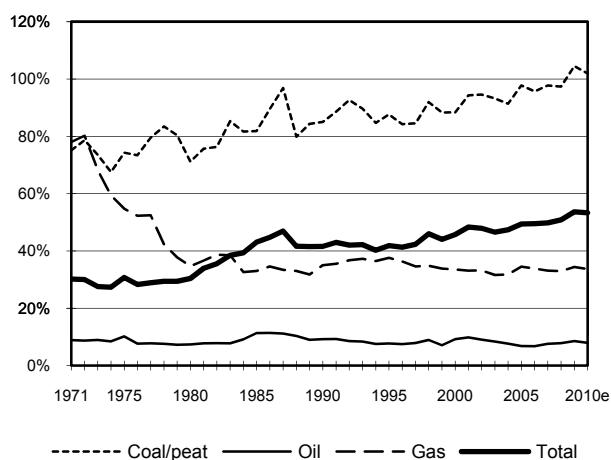


Figure 4. Breakdown of sectorial final consumption by source in 1973 and 2009\*\*

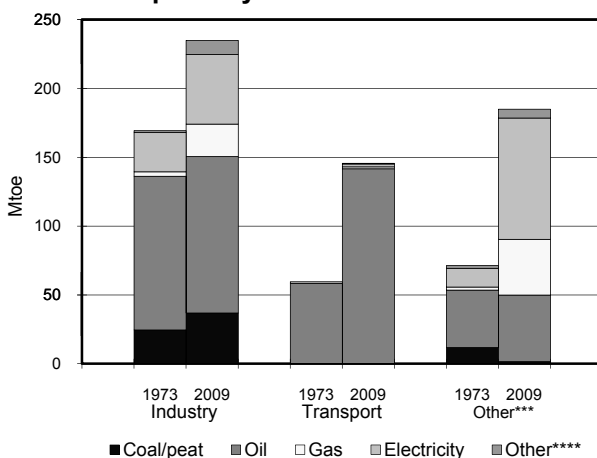


Figure 5. Electricity generation by fuel

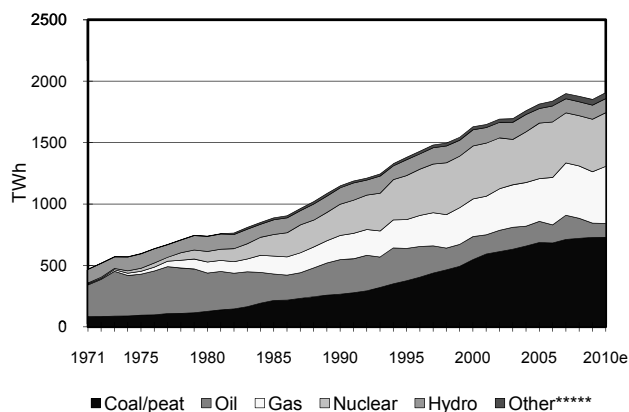
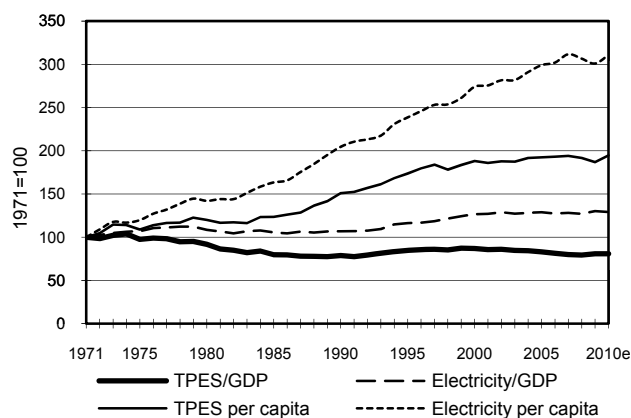


Figure 6. Selected indicators



\* Excluding electricity trade.

\*\* Includes non-energy use.

\*\*\* Includes residential, commercial and public services, agriculture/forestry, fishing and non-specified.

\*\*\*\* Includes biofuels and waste, direct use of geothermal/solar thermal and heat produced in CHP/heat plants.

\*\*\*\*\* Includes geothermal, solar, wind, biofuels and waste, etc.

## OECD Europe : 2008

Million tonnes of oil equivalent											
<b>SUPPLY AND CONSUMPTION</b>	Coal & peat	Crude oil*	Oil products	Natural gas	Nuclear	Hydro	Geotherm. solar etc.	Biofuels & waste	Electricity	Heat	Total
Production	185.03	225.31	-	246.85	241.97	45.07	22.91	106.17	-	0.54	1073.85
Imports	169.80	656.27	317.47	371.35	-	-	-	5.84	28.09	0.00	1548.83
Exports	-27.69	-163.81	-292.00	-156.05	-	-	-	-2.28	-27.25	-0.01	-669.09
Intl. marine bunkers	-	-	-52.77	-	-	-	-	-	-	-	-52.77
Intl. aviation bunkers	-	-	-47.98	-	-	-	-	-	-	-	-47.98
Stock changes	-9.18	-2.14	-2.84	-3.10	-	-	-	-0.23	-	-	-17.49
<b>TPES</b>	<b>317.96</b>	<b>715.64</b>	<b>-78.11</b>	<b>459.05</b>	<b>241.97</b>	<b>45.07</b>	<b>22.91</b>	<b>109.49</b>	<b>0.84</b>	<b>0.54</b>	<b>1835.35</b>
Transfers	-	6.17	-3.61	-	-	-	-	-	-	-	2.56
Statistical differences	0.99	-0.35	-1.86	1.70	-	-	-0.00	0.05	-0.02	-0.00	0.50
Electricity plants	-161.22	-	-15.29	-91.97	-238.42	-45.07	-17.89	-18.75	255.21	-0.19	-333.59
CHP plants	-65.42	-	-11.32	-60.17	-3.54	-	-1.03	-17.87	56.71	40.85	-61.79
Heat plants	-4.41	-	-0.75	-7.39	-	-	-0.12	-3.93	-0.23	13.66	-3.17
Blast furnaces	-19.09	-	-1.19	-0.03	-	-	-	-	-	-	-20.31
Gas works	-0.19	-	-0.23	0.11	-	-	-	-0.01	-	-	-0.32
Coke/pat. fuel/BKB plants	-4.16	-	-0.74	-0.04	-	-	-	-	-	-	-4.95
Oil refineries	-	-731.17	726.83	-	-	-	-	-	-	-	-4.34
Petrochemical plants	-	13.83	-14.30	-	-	-	-	-	-	-	-0.47
Liquefaction plants	-0.54	0.41	-	-	-	-	-	-	-	-	-0.13
Other transformation	0.01	0.15	-	-0.43	-	-	-	-0.11	-	-0.22	-0.61
Energy industry own use	-6.91	-	-38.20	-17.80	-	-	-0.00	-0.20	-25.00	-3.89	-92.00
Losses	-0.90	-	-0.01	-2.79	-	-	-0.14	-0.03	-19.72	-3.46	-27.06
<b>TFC</b>	<b>56.13</b>	<b>4.67</b>	<b>561.21</b>	<b>280.23</b>	<b>-</b>	<b>-</b>	<b>3.74</b>	<b>68.63</b>	<b>267.77</b>	<b>47.29</b>	<b>1289.68</b>
<b>INDUSTRY</b>	<b>35.73</b>	<b>2.07</b>	<b>42.59</b>	<b>86.95</b>	<b>-</b>	<b>-</b>	<b>0.16</b>	<b>22.96</b>	<b>107.53</b>	<b>15.88</b>	<b>313.86</b>
Iron and steel	16.74	-	1.78	9.53	-	-	-	0.12	12.84	0.31	41.33
Chemical and petrochem.	3.16	2.07	7.22	18.29	-	-	0.00	1.26	17.54	6.43	55.96
Non-ferrous metals	0.49	-	0.92	2.75	-	-	0.00	0.04	9.91	0.19	14.30
Non-metallic minerals	6.48	-	11.46	16.23	-	-	0.00	2.81	7.96	0.21	45.15
Transport equipment	0.11	-	0.51	2.80	-	-	0.00	0.01	4.71	0.66	8.80
Machinery	0.17	-	2.26	7.51	-	-	0.00	0.05	9.80	0.58	20.37
Mining and quarrying	0.17	-	0.83	0.51	-	-	-	0.01	1.38	0.22	3.11
Food and tobacco	1.62	-	3.99	11.82	-	-	0.00	1.25	10.04	1.00	29.73
Paper, pulp and printing	1.34	-	1.86	8.37	-	-	0.00	11.65	12.71	2.42	38.35
Wood and wood products	0.11	-	0.27	0.62	-	-	-	4.38	2.42	0.48	8.28
Construction	2.88	-	3.59	1.06	-	-	0.00	0.12	1.70	0.05	9.41
Textile and leather	0.21	-	0.73	2.58	-	-	0.00	0.07	3.30	0.19	7.08
Non-specified	2.24	-	7.18	4.88	-	-	0.15	1.20	13.23	3.11	31.99
<b>TRANSPORT</b>	<b>0.01</b>	<b>-</b>	<b>325.81</b>	<b>2.31</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>9.42</b>	<b>6.59</b>	<b>-</b>	<b>344.14</b>
Domestic aviation	-	-	9.58	-	-	-	-	-	-	-	9.58
Road	-	-	305.25	0.84	-	-	-	9.42	0.00	-	315.51
Rail	0.01	-	3.00	-	-	-	-	0.00	4.80	-	7.81
Pipeline transport	-	-	0.00	1.35	-	-	-	-	0.11	-	1.46
Domestic navigation	-	-	7.88	-	-	-	-	0.00	-	-	7.88
Non-specified	-	-	0.11	0.12	-	-	-	0.00	1.68	-	1.91
<b>OTHER</b>	<b>18.59</b>	<b>-</b>	<b>94.68</b>	<b>178.28</b>	<b>-</b>	<b>-</b>	<b>3.58</b>	<b>36.25</b>	<b>153.65</b>	<b>31.40</b>	<b>516.43</b>
Residential	14.20	-	51.07	121.32	-	-	2.90	32.89	76.70	17.35	316.44
Comm. and public services	2.47	-	22.70	44.72	-	-	0.33	1.73	71.21	9.04	152.19
Agriculture/forestry	1.16	-	18.56	3.62	-	-	0.06	1.61	5.15	0.29	30.46
Fishing	-	-	1.43	0.00	-	-	0.03	-	0.06	0.02	1.53
Non-specified	0.76	-	0.91	8.62	-	-	0.27	0.01	0.53	4.71	15.82
<b>NON-ENERGY USE</b>	<b>1.81</b>	<b>2.61</b>	<b>98.14</b>	<b>12.68</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>115.24</b>
in industry/transf./energy	1.55	2.61	94.69	12.68	-	-	-	-	-	-	111.52
of which: feedstocks	0.25	2.61	65.51	12.68	-	-	-	-	-	-	81.05
in transport	-	-	2.80	-	-	-	-	-	-	-	2.80
in other	0.26	-	0.66	-	-	-	-	-	-	-	0.92
<b>Electricity and Heat Output</b>											
<b>Elec. generated - TWh</b>	<b>947.50</b>	<b>0.00</b>	<b>103.92</b>	<b>868.81</b>	<b>928.03</b>	<b>524.09</b>	<b>140.46</b>	<b>113.38</b>	<b>-</b>	<b>0.75</b>	<b>3626.95</b>
Electricity plants	703.61	-	63.85	564.71	914.88	524.09	138.51	57.16	-	0.38	2967.19
CHP plants	243.89	0.00	40.07	304.10	13.15	-	1.96	56.22	-	0.37	659.76
<b>Heat generated - PJ</b>	<b>733.40</b>	<b>0.01</b>	<b>145.15</b>	<b>957.87</b>	<b>4.82</b>	<b>-</b>	<b>23.89</b>	<b>400.12</b>	<b>3.21</b>	<b>36.98</b>	<b>2305.45</b>
CHP plants	585.72	0.01	119.16	712.26	4.82	-	10.11	276.43	0.19	13.12	1721.82
Heat plants	147.68	-	26.00	245.61	-	-	13.77	123.68	3.02	23.87	583.63

\* Includes crude oil, NGL, refinery feedstocks, additives and other hydrocarbons.

## OECD Europe : 2009

Million tonnes of oil equivalent											
<b>SUPPLY AND CONSUMPTION</b>	Coal & peat	Crude oil*	Oil products	Natural gas	Nuclear	Hydro	Geotherm. solar etc.	Biofuels & waste	Electricity	Heat	Total
Production	174.43	211.68	-	235.29	230.45	44.27	25.46	111.85	-	0.42	1033.85
Imports	143.16	600.42	323.06	365.87	-	-	-	6.86	26.73	0.00	1466.11
Exports	-23.65	-155.63	-283.58	-159.21	-	-	-	-1.98	-25.71	-0.01	-649.77
Intl. marine bunkers	-	-	-47.00	-	-	-	-	-	-	-	-47.00
Intl. aviation bunkers	-	-	-44.80	-	-	-	-	-	-	-	-44.80
Stock changes	-10.93	3.31	0.05	-4.71	-	-	-	-0.04	-	-	-12.32
<b>TPES</b>	<b>283.02</b>	<b>659.78</b>	<b>-52.28</b>	<b>437.25</b>	<b>230.45</b>	<b>44.27</b>	<b>25.46</b>	<b>116.68</b>	<b>1.02</b>	<b>0.41</b>	<b>1746.08</b>
Transfers	-	7.44	-5.14	-	-	-	-	-	-	-	2.30
Statistical differences	0.35	3.50	-6.48	-2.41	-	-	-0.01	-0.07	0.00	-0.00	-5.12
Electricity plants	-144.41	-	-13.69	-84.17	-227.77	-44.27	-19.74	-21.11	242.36	-0.09	-312.89
CHP plants	-62.25	-	-10.10	-59.96	-2.68	-	-1.03	-19.66	55.27	40.44	-59.96
Heat plants	-4.45	-	-0.93	-6.87	-	-	-0.14	-4.29	-0.24	13.73	-3.19
Blast furnaces	-14.32	-	-0.62	-0.01	-	-	-	-	-	-	-14.95
Gas works	-0.17	-	-0.20	0.10	-	-	-	-0.01	-	-	-0.28
Coke/pat. fuel/BKB plants	-2.25	-	-0.50	-0.04	-	-	-	-	-	-	-2.79
Oil refineries	-	-680.54	674.69	-	-	-	-	-	-	-	-5.84
Petrochemical plants	-	13.56	-14.03	-	-	-	-	-	-	-	-0.47
Liquefaction plants	-0.71	0.46	-	-	-	-	-	-	-	-	-0.26
Other transformation	0.03	0.14	-0.09	-0.43	-	-	-	-0.11	-	-0.34	-0.81
Energy industry own use	-5.47	-	-37.42	-17.21	-	-	-0.13	-0.19	-24.46	-3.90	-88.79
Losses	-0.73	-	-0.01	-2.93	-	-	-0.14	-0.03	-18.73	-3.49	-26.06
<b>TFC</b>	<b>48.64</b>	<b>4.35</b>	<b>533.21</b>	<b>263.33</b>	<b>-</b>	<b>-</b>	<b>4.28</b>	<b>71.20</b>	<b>255.22</b>	<b>46.76</b>	<b>1226.98</b>
<b>INDUSTRY</b>	<b>28.44</b>	<b>1.96</b>	<b>36.11</b>	<b>76.06</b>	<b>-</b>	<b>-</b>	<b>0.03</b>	<b>22.18</b>	<b>94.02</b>	<b>15.27</b>	<b>274.08</b>
Iron and steel	11.93	-	1.53	6.93	-	-	-	0.04	10.60	0.53	31.56
Chemical and petrochem.	3.07	1.96	6.04	16.33	-	-	0.00	0.98	15.73	6.53	50.63
Non-ferrous metals	0.43	-	0.77	2.73	-	-	0.00	0.05	8.07	0.18	12.23
Non-metallic minerals	4.79	-	9.38	13.51	-	-	0.00	3.03	7.03	0.18	37.91
Transport equipment	0.10	-	0.43	2.49	-	-	0.00	0.00	4.09	0.62	7.73
Machinery	0.14	-	1.77	6.43	-	-	0.00	0.07	8.59	0.53	17.52
Mining and quarrying	0.14	-	0.73	0.46	-	-	-	0.02	1.24	0.16	2.75
Food and tobacco	1.55	-	3.30	11.37	-	-	0.00	1.25	9.96	0.94	28.38
Paper, pulp and printing	1.17	-	1.54	7.41	-	-	0.00	11.03	11.35	1.98	34.47
Wood and wood products	0.34	-	0.24	0.58	-	-	-	4.43	2.23	0.45	8.26
Construction	2.25	-	3.32	0.93	-	-	0.00	0.12	1.71	0.06	8.40
Textile and leather	0.17	-	0.57	2.45	-	-	0.00	0.07	2.97	0.15	6.38
Non-specified	2.37	-	6.50	4.44	-	-	0.03	1.09	10.45	2.97	27.84
<b>TRANSPORT</b>	<b>0.01</b>	<b>-</b>	<b>316.54</b>	<b>2.17</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>11.88</b>	<b>6.33</b>	<b>-</b>	<b>336.93</b>
Domestic aviation	-	-	8.78	-	-	-	-	-	-	-	8.78
Road	-	-	297.34	0.91	-	-	-	11.87	0.00	-	310.12
Rail	0.01	-	2.78	-	-	-	-	0.00	4.63	-	7.41
Pipeline transport	-	-	0.00	1.10	-	-	-	-	0.12	-	1.22
Domestic navigation	-	-	7.52	-	-	-	-	0.00	-	-	7.52
Non-specified	-	-	0.12	0.17	-	-	-	0.00	1.58	-	1.87
<b>OTHER</b>	<b>19.08</b>	<b>-</b>	<b>87.77</b>	<b>174.07</b>	<b>-</b>	<b>-</b>	<b>4.25</b>	<b>37.15</b>	<b>154.86</b>	<b>31.49</b>	<b>508.67</b>
Residential	15.23	-	46.94	118.48	-	-	3.51	33.47	77.71	17.99	313.34
Comm. and public services	2.48	-	20.80	43.49	-	-	0.36	1.89	71.61	8.35	148.98
Agriculture/forestry	1.14	-	17.61	3.66	-	-	0.06	1.78	4.93	0.29	29.46
Fishing	-	-	1.48	0.00	-	-	0.03	-	0.06	0.02	1.58
Non-specified	0.23	-	0.94	8.43	-	-	0.28	0.01	0.56	4.84	15.31
<b>NON-ENERGY USE</b>	<b>1.11</b>	<b>2.39</b>	<b>92.78</b>	<b>11.03</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>107.31</b>
in industry/transf./energy	0.95	2.39	89.75	11.03	-	-	-	-	-	-	104.11
of which: feedstocks	0.14	2.39	62.34	11.03	-	-	-	-	-	-	75.90
in transport	-	-	2.46	-	-	-	-	-	-	-	2.46
in other	0.16	-	0.57	-	-	-	-	-	-	-	0.73
<b>Electricity and Heat Output</b>											
<b>Elec. generated - TWh</b>	<b>862.23</b>	<b>-</b>	<b>91.46</b>	<b>813.28</b>	<b>883.82</b>	<b>514.82</b>	<b>167.49</b>	<b>127.30</b>	<b>-</b>	<b>0.41</b>	<b>3460.80</b>
Electricity plants	630.75	-	55.20	512.99	874.00	514.82	164.00	65.97	-	0.19	2817.92
CHP plants	231.49	-	36.26	300.28	9.82	-	3.49	61.33	-	0.21	642.88
<b>Heat generated - PJ</b>	<b>699.13</b>	<b>-</b>	<b>159.81</b>	<b>938.43</b>	<b>5.06</b>	<b>-</b>	<b>17.39</b>	<b>422.01</b>	<b>3.91</b>	<b>40.26</b>	<b>2285.99</b>
CHP plants	560.94	-	127.78	699.37	5.06	-	10.32	288.21	0.32	10.26	1702.26
Heat plants	138.18	-	32.02	239.06	-	-	7.07	133.80	3.59	30.00	583.73

\* Includes crude oil, NGL, refinery feedstocks, additives and other hydrocarbons.

## OECD Europe

### Estimated energy supply balance for 2010

Million tonnes of oil equivalent											
SUPPLY	Coal & peat	Crude oil*	Oil products	Natural gas	Nuclear	Hydro	Geotherm. solar etc.	Biofuels & waste	Electricity	Heat	Total
Production	170.56	197.02	-	238.98	238.87	47.72	27.81	119.81	-	0.40	1041.18
Imports	146.63	600.93	329.32	391.30	-	-	-	8.30	29.07	0.00	1505.55
Exports	-26.03	-142.85	-294.81	-167.07	-	-	-	-3.11	-27.71	-0.01	-661.60
Intl. marine bunkers	-	-	-45.21	-	-	-	-	-	-	-	-45.21
Intl. aviation bunkers	-	-	-44.13	-	-	-	-	-	-	-	-44.13
Stock changes	6.31	0.32	3.40	7.92	-	-	-	0.19	-	-	18.15
<b>TPES</b>	<b>297.47</b>	<b>655.43</b>	<b>-51.44</b>	<b>471.14</b>	<b>238.87</b>	<b>47.72</b>	<b>27.81</b>	<b>125.19</b>	<b>1.35</b>	<b>0.39</b>	<b>1813.93</b>
Electricity and Heat Output											
Elec. generated - TWh	867.77	-	79.41	849.26	916.05	554.89	186.33	144.35	-	0.64	3598.69
Heat generated - PJ	742.17	-	171.22	981.43	5.96	-	17.49	463.17	3.67	25.40	2410.50

\* Includes crude oil, NGL, refinery feedstocks, additives and other hydrocarbons.

### Key indicators

	1960	1971	1980	1990	2000	2008	2009	2010e
Energy production (Mtoe)	..	608.7	856.2	1045.3	1170.5	1073.9	1033.9	1041.2
Net imports (Mtoe)	..	709.8	709.4	634.4	661.1	879.7	816.3	843.9
Total primary energy supply (Mtoe)	..	1243.0	1494.2	1619.6	1747.3	1835.4	1746.1	1813.9
Net oil imports (Mtoe)	..	682.8	621.3	458.1	400.5	517.9	484.3	492.6
Oil supply (Mtoe)	..	640.4	688.4	606.1	650.6	637.5	607.5	604.0
Electricity consumption (TWh)*	..	1315.0	1930.4	2518.8	3017.7	3441.0	3287.5	3430.1
GDP (billion 2000 USD)	2639.8	4337.1	5680.1	7248.3	9097.3	10650.9	10211.9	10430.2
GDP PPP (billion 2000 USD)	3221.4	5346.2	7060.9	9007.1	11327.1	13425.9	12884.0	13178.0
Population (millions)	405.46	448.37	473.78	500.06	521.70	546.61	549.33	551.22
Industrial production index (2005=100)	28.40	50.40	64.60	78.50	94.60	107.20	93.10	99.50
Total self-sufficiency**	..	0.4897	0.5730	0.6454	0.6699	0.5851	0.5921	0.5740
Coal and peat self-sufficiency**	..	0.9742	0.9189	0.8191	0.6581	0.5819	0.6163	0.5734
Oil self-sufficiency**	..	0.0353	0.1847	0.3480	0.5179	0.3534	0.3484	0.3262
Natural gas self-sufficiency**	..	0.9496	0.8169	0.6302	0.6198	0.5377	0.5381	0.5073
TPES/GDP (toe per thousand 2000 USD)	..	0.2866	0.2631	0.2234	0.1921	0.1723	0.1710	0.1739
TPES/GDP PPP (toe per thousand 2000 USD)	..	0.2325	0.2116	0.1798	0.1543	0.1367	0.1355	0.1376
TPES/population (toe per capita)	..	2.7723	3.1538	3.2388	3.3493	3.3577	3.1786	3.2907
Net oil imports/GDP (toe per thousand 2000 USD)	..	0.1574	0.1094	0.0632	0.0440	0.0486	0.0474	0.0472
Oil supply/GDP (toe per thousand 2000 USD)	..	0.1477	0.1212	0.0836	0.0715	0.0599	0.0595	0.0579
Oil supply/population (toe per capita)	..	1.4284	1.4530	1.2120	1.2470	1.1663	1.1059	1.0957
Elect. cons./GDP (kWh per 2000 USD)	..	0.3032	0.3399	0.3475	0.3317	0.3231	0.3219	0.3289
Elect. cons./population (kWh per capita)	..	2933	4075	5037	5784	6295	5985	6223
Industry cons.***/industrial production (2005=100)	..	183.74	155.84	120.90	103.47	89.94	92.07	..
Industry oil cons.***/industrial production (2005=100)	..	270.53	199.47	119.57	104.66	89.80	94.84	..

\* Electricity consumption equals domestic supply less losses.

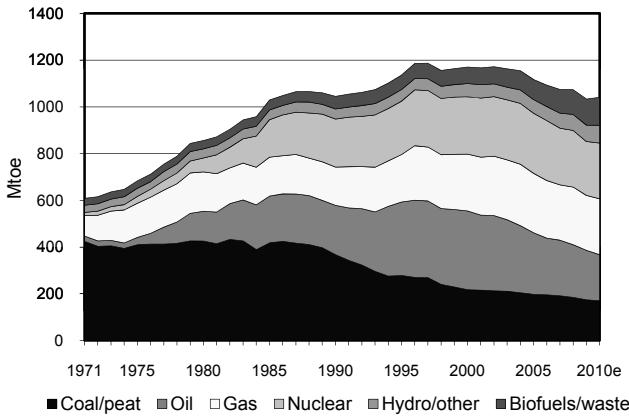
\*\* Production divided by TPES.

\*\*\* Includes non-energy use.

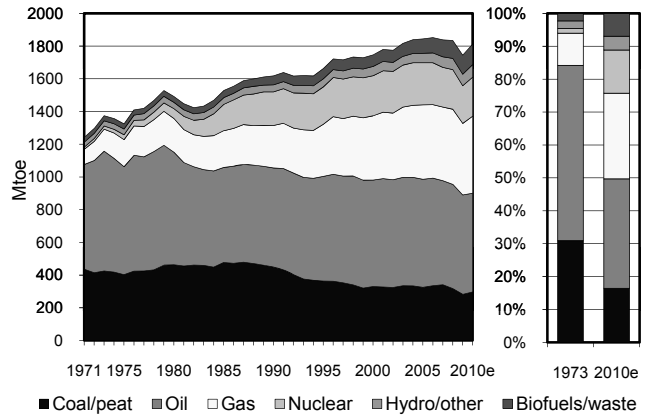
Note: OECD Europe excludes Estonia and Slovenia prior to 1990.

### OECD Europe

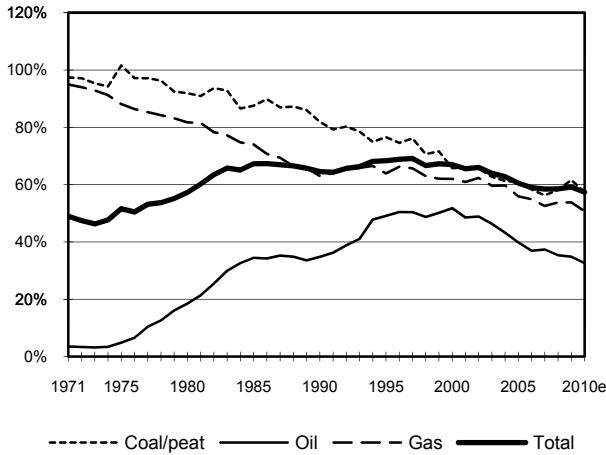
**Figure 1. Energy production**



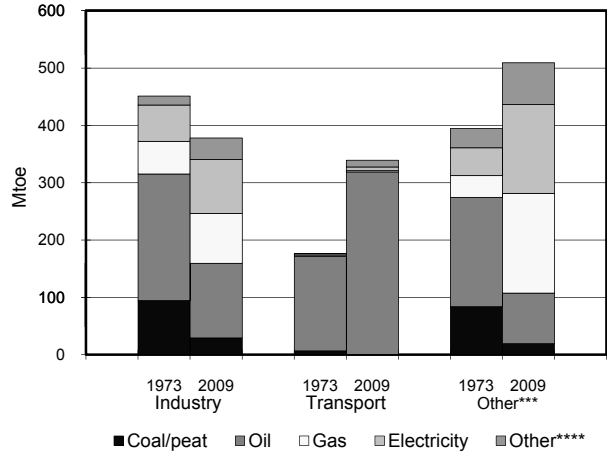
**Figure 2. Total primary energy supply\***



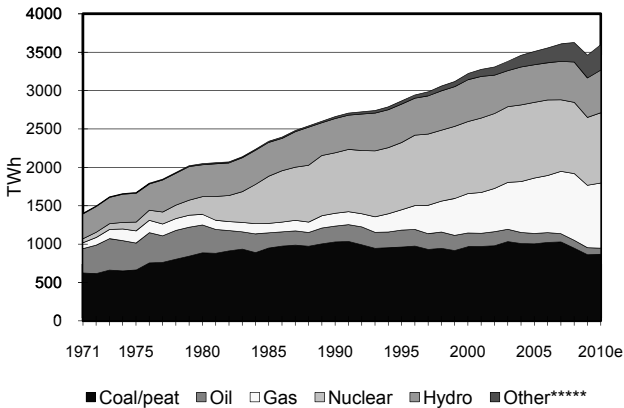
**Figure 3. Energy self-sufficiency**



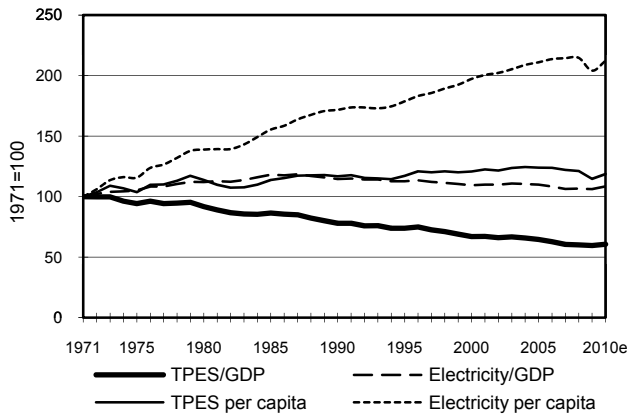
**Figure 4. Breakdown of sectorial final consumption by source in 1973 and 2009\*\***



**Figure 5. Electricity generation by fuel**



**Figure 6. Selected indicators**



\* Excluding electricity trade.  
 \*\* Includes non-energy use.  
 \*\*\* Includes residential, commercial and public services, agriculture/forestry, fishing and non-specified.  
 \*\*\*\* Includes biofuels and waste, direct use of geothermal/solar thermal and heat produced in CHP/heat plants.  
 \*\*\*\*\* Includes geothermal, solar, wind, biofuels and waste, etc.

## IEA : 2008

Million tonnes of oil equivalent											
<b>SUPPLY AND CONSUMPTION</b>	Coal & peat	Crude oil*	Oil products	Natural gas	Nuclear	Hydro	Geotherm. solar etc.	Biofuels & waste	Electricity	Heat	Total
Production	1028.61	724.05	-	908.06	589.76	107.71	41.20	218.91	-	0.62	3618.92
Imports	379.44	1634.58	505.55	592.39	-	-	-	8.27	34.40	0.00	3154.64
Exports	-270.23	-287.11	-464.86	-278.82	-	-	-	-4.76	-33.22	-0.01	-1339.01
Intl. marine bunkers	-	-	-94.40	-	-	-	-	-	-	-	-94.40
Intl. aviation bunkers	-	-	-85.71	-	-	-	-	-	-	-	-85.71
Stock changes	-18.22	-4.85	-2.82	1.63	-	-	-	-0.52	-	-	-24.78
<b>TPES</b>	<b>1119.59</b>	<b>2066.67</b>	<b>-142.24</b>	<b>1223.27</b>	<b>589.76</b>	<b>107.71</b>	<b>41.20</b>	<b>221.90</b>	<b>1.17</b>	<b>0.61</b>	<b>5229.66</b>
Transfers	-	-19.90	31.46	-	-	-	-	-	-	-	11.57
Statistical differences	-13.31	-20.31	-6.55	4.51	-	-	-0.00	0.05	-0.17	-0.05	-35.82
Electricity plants	-810.51	-6.91	-50.57	-297.95	-586.22	-107.71	-34.99	-37.78	804.68	-0.23	-1128.18
CHP plants	-84.39	-	-15.82	-107.25	-3.54	-	-0.03	-26.27	88.67	58.26	-90.37
Heat plants	-4.37	-	-1.07	-7.46	-	-	-0.08	-4.24	-0.31	14.09	-3.45
Blast furnaces	-49.12	-	-1.19	-0.11	-	-	-	-	-	-	-50.42
Gas works	-1.89	-	-2.00	2.63	-	-	-	-0.01	-	-	-1.27
Coke/pat. fuel/BKB plants	-8.48	-	-1.16	-0.04	-	-	-	-	-	-	-9.69
Oil refineries	-	-2041.81	2046.21	-0.57	-	-	-	-	-	-	3.83
Petrochemical plants	-	26.72	-27.19	-	-	-	-	-	-	-	-0.47
Liquefaction plants	-	0.57	-	-1.71	-	-	-	-	-	-	-1.14
Other transformation	0.01	0.15	-	-0.43	-	-	-	-0.13	-	-0.22	-0.63
Energy industry own use	-14.67	-0.13	-112.41	-86.24	-	-	-0.00	-0.20	-66.08	-8.14	-287.87
Losses	-0.90	-	-0.01	-2.81	-	-	-0.00	-0.03	-53.30	-4.94	-62.00
<b>TFC</b>	<b>131.95</b>	<b>5.07</b>	<b>1717.48</b>	<b>725.82</b>	<b>-</b>	<b>-</b>	<b>6.11</b>	<b>153.29</b>	<b>774.66</b>	<b>59.38</b>	<b>3573.76</b>
<b>INDUSTRY</b>	<b>106.81</b>	<b>2.13</b>	<b>113.63</b>	<b>245.73</b>	<b>-</b>	<b>-</b>	<b>0.41</b>	<b>70.35</b>	<b>252.51</b>	<b>24.92</b>	<b>816.49</b>
Iron and steel	39.62	-	4.91	22.69	-	-	-	0.23	30.37	0.51	98.33
Chemical and petrochem.	11.60	2.09	25.44	59.96	-	-	0.00	1.73	48.15	11.82	160.79
Non-ferrous metals	2.44	0.02	2.91	12.16	-	-	0.00	0.10	26.99	0.37	44.99
Non-metallic minerals	21.17	-	18.86	30.61	-	-	0.00	4.09	15.02	0.21	89.97
Transport equipment	0.24	-	1.39	9.44	-	-	0.00	0.01	10.20	0.79	22.05
Machinery	0.42	-	4.55	19.80	-	-	0.00	0.06	30.77	0.71	56.30
Mining and quarrying	0.66	0.01	5.18	9.63	-	-	-	0.01	7.53	0.22	23.24
Food and tobacco	5.77	-	9.40	30.86	-	-	0.00	3.83	20.15	1.73	71.74
Paper, pulp and printing	7.70	-	7.85	23.18	-	-	0.15	45.21	31.34	3.57	118.99
Wood and wood products	0.15	-	3.86	2.80	-	-	-	10.57	5.13	0.76	23.27
Construction	2.89	-	10.29	2.23	-	-	0.00	0.12	1.78	0.05	17.36
Textile and leather	0.53	0.01	1.48	6.06	-	-	0.00	0.07	6.87	0.91	15.93
Non-specified	13.64	-	17.52	16.32	-	-	0.26	4.31	18.21	3.25	73.52
<b>TRANSPORT</b>	<b>0.09</b>	<b>-</b>	<b>1076.92</b>	<b>22.33</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>29.99</b>	<b>9.63</b>	<b>-</b>	<b>1138.95</b>
Domestic aviation	-	-	73.93	-	-	-	-	-	-	-	73.93
Road	-	-	967.30	2.24	-	-	-	29.99	0.00	-	999.52
Rail	0.01	-	16.32	-	-	-	-	0.00	7.46	-	23.79
Pipeline transport	-	-	0.02	19.95	-	-	-	-	0.39	-	20.36
Domestic navigation	0.08	-	18.10	-	-	-	-	0.00	-	-	18.18
Non-specified	0.00	-	1.25	0.14	-	-	-	0.00	1.78	-	3.17
<b>OTHER</b>	<b>22.13</b>	<b>-</b>	<b>207.45</b>	<b>430.85</b>	<b>-</b>	<b>-</b>	<b>5.70</b>	<b>52.95</b>	<b>512.53</b>	<b>34.46</b>	<b>1266.07</b>
Residential	15.30	-	92.64	270.26	-	-	4.71	46.58	244.13	18.26	691.87
Comm. and public services	4.87	-	67.93	147.83	-	-	0.57	4.39	245.54	11.21	482.33
Agriculture/forestry	1.20	-	41.24	4.15	-	-	0.15	1.97	6.88	0.28	55.87
Fishing	-	-	3.90	0.00	-	-	-	0.00	-	0.22	4.13
Non-specified	0.76	-	1.74	8.62	-	-	0.27	0.01	15.75	4.71	31.87
<b>NON-ENERGY USE</b>	<b>2.92</b>	<b>2.94</b>	<b>319.48</b>	<b>26.91</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>352.26</b>
in industry/transf./energy	2.66	2.94	311.38	26.91	-	-	-	-	-	-	343.90
of which: feedstocks	1.08	2.94	215.86	25.76	-	-	-	-	-	-	245.64
in transport	-	-	4.46	-	-	-	-	-	-	-	4.46
in other	0.26	-	3.64	-	-	-	-	-	-	-	3.90
<b>Electricity and Heat Output</b>											
<b>Elec. generated - TWh</b>	<b>3862.99</b>	<b>35.10</b>	<b>292.70</b>	<b>2229.35</b>	<b>2262.60</b>	<b>1252.40</b>	<b>232.72</b>	<b>219.08</b>	<b>-</b>	<b>0.87</b>	<b>10387.80</b>
Electricity plants	3538.51	35.09	233.60	1691.61	2249.45	1252.40	231.90	123.34	-	0.42	9356.32
CHP plants	324.48	0.00	59.10	537.74	13.15	-	0.81	95.74	-	0.44	1031.48
<b>Heat generated - PJ</b>	<b>860.03</b>	<b>0.01</b>	<b>272.80</b>	<b>1395.78</b>	<b>4.82</b>	<b>-</b>	<b>13.69</b>	<b>462.02</b>	<b>6.26</b>	<b>40.19</b>	<b>3055.59</b>
CHP plants	713.29	0.01	246.06	1146.06	4.82	-	0.61	326.56	0.19	15.88	2453.50
Heat plants	146.74	-	26.74	249.71	-	-	13.08	135.46	6.07	24.30	602.09

\* Includes crude oil, NGL, refinery feedstocks, additives and other hydrocarbons.

## IEA : 2009

Million tonnes of oil equivalent											
<b>SUPPLY AND CONSUMPTION</b>	Coal & peat	Crude oil*	Oil products	Natural gas	Nuclear	Hydro	Geotherm. solar etc.	Biofuels & waste	Electricity	Heat	Total
Production	972.01	734.70	-	897.70	580.29	107.65	46.23	222.88	-	0.52	3561.98
Imports	328.91	1501.26	500.97	581.68	-	-	-	7.76	31.99	0.00	2952.57
Exports	-256.85	-282.05	-458.03	-280.51	-	-	-	-3.15	-30.67	-0.01	-1311.26
Intl. marine bunkers	-	-	-85.51	-	-	-	-	-	-	-	-85.51
Intl. aviation bunkers	-	-	-79.67	-	-	-	-	-	-	-	-79.67
Stock changes	-34.08	0.10	-1.98	-6.01	-	-	-	-0.33	-	-	-42.30
<b>TPES</b>	<b>1009.98</b>	<b>1954.02</b>	<b>-124.22</b>	<b>1192.86</b>	<b>580.29</b>	<b>107.65</b>	<b>46.23</b>	<b>227.16</b>	<b>1.32</b>	<b>0.52</b>	<b>4995.81</b>
Transfers	-	-18.52	31.06	-	-	-	-	-	-	-	12.54
Statistical differences	-11.73	-7.54	-10.72	-3.26	-	-	-0.01	0.03	-0.03	-0.01	-33.27
Electricity plants	-740.96	-3.18	-41.99	-292.07	-577.61	-107.65	-39.32	-39.42	772.73	-0.15	-1069.61
CHP plants	-79.19	-	-14.51	-106.27	-2.68	-	-0.03	-28.05	85.92	56.97	-87.84
Heat plants	-4.41	-	-1.26	-7.03	-	-	-0.11	-4.66	-0.32	14.32	-3.46
Blast furnaces	-39.39	-	-0.62	-0.06	-	-	-	-	-	-	-40.07
Gas works	-1.95	-	-1.99	2.71	-	-	-	-0.01	-	-	-1.24
Coke/pat. fuel/BKB plants	-6.46	-	-0.93	-0.04	-	-	-	-	-	-	-7.43
Oil refineries	-	-1946.19	1949.65	-0.59	-	-	-	-	-	-	2.87
Petrochemical plants	-	25.65	-26.09	-	-	-	-	-	-	-	-0.44
Liquefaction plants	-	0.59	-	-1.96	-	-	-	-	-	-	-1.37
Other transformation	0.03	0.14	-0.09	-0.43	-	-	-	-0.12	-	-0.34	-0.82
Energy industry own use	-11.98	-0.14	-108.97	-86.55	-	-	-0.13	-0.19	-63.55	-8.05	-279.57
Losses	-0.74	-	-0.01	-2.94	-	-	-0.00	-0.03	-52.59	-4.95	-61.27
<b>TFC</b>	<b>113.20</b>	<b>4.83</b>	<b>1649.31</b>	<b>694.37</b>	<b>-</b>	<b>-</b>	<b>6.64</b>	<b>154.69</b>	<b>743.48</b>	<b>58.30</b>	<b>3424.82</b>
<b>INDUSTRY</b>	<b>88.86</b>	<b>2.01</b>	<b>101.83</b>	<b>227.19</b>	<b>-</b>	<b>-</b>	<b>0.28</b>	<b>66.10</b>	<b>224.30</b>	<b>23.84</b>	<b>734.41</b>
Iron and steel	31.78	-	4.14	19.09	-	-	-	0.15	27.08	0.74	82.98
Chemical and petrochem.	10.38	1.98	23.91	55.05	-	-	0.00	1.39	43.25	11.45	147.41
Non-ferrous metals	2.13	0.02	2.60	11.59	-	-	0.00	0.12	23.46	0.37	40.28
Non-metallic minerals	16.32	-	16.41	26.79	-	-	0.00	4.22	13.49	0.18	77.41
Transport equipment	0.18	-	1.19	8.53	-	-	0.00	0.01	9.02	0.75	19.67
Machinery	0.34	-	3.85	17.62	-	-	0.00	0.08	27.80	0.65	50.34
Mining and quarrying	0.54	0.01	4.93	11.79	-	-	-	0.02	6.78	0.16	24.24
Food and tobacco	5.48	-	8.28	29.05	-	-	0.00	3.81	19.19	1.71	67.52
Paper, pulp and printing	6.71	-	6.24	21.05	-	-	0.15	41.57	27.77	2.90	106.39
Wood and wood products	0.39	-	3.45	2.60	-	-	-	10.20	4.63	0.73	22.01
Construction	2.25	-	9.86	2.04	-	-	0.00	0.12	1.79	0.06	16.12
Textile and leather	0.40	0.01	1.19	5.64	-	-	0.00	0.08	6.20	0.99	14.51
Non-specified	11.96	-	15.78	16.35	-	-	0.12	4.32	13.86	3.15	65.54
<b>TRANSPORT</b>	<b>0.10</b>	<b>-</b>	<b>1040.16</b>	<b>20.79</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>35.27</b>	<b>9.41</b>	<b>-</b>	<b>1105.72</b>
Domestic aviation	-	-	67.02	-	-	-	-	-	-	-	67.02
Road	-	-	940.69	2.56	-	-	-	35.26	0.00	-	978.52
Rail	0.01	-	14.02	-	-	-	-	0.00	7.36	-	21.39
Pipeline transport	-	-	0.02	18.04	-	-	-	-	0.38	-	18.44
Domestic navigation	0.09	-	17.26	-	-	-	-	0.00	-	-	17.35
Non-specified	0.00	-	1.15	0.19	-	-	-	0.00	1.68	-	3.01
<b>OTHER</b>	<b>22.22</b>	<b>-</b>	<b>197.11</b>	<b>422.68</b>	<b>-</b>	<b>-</b>	<b>6.36</b>	<b>53.32</b>	<b>509.77</b>	<b>34.46</b>	<b>1245.93</b>
Residential	16.17	-	86.61	264.03	-	-	5.33	46.58	243.90	18.98	681.60
Comm. and public services	4.66	-	65.90	146.01	-	-	0.59	4.61	245.21	10.36	477.34
Agriculture/forestry	1.16	-	38.64	4.22	-	-	0.16	2.11	6.72	0.28	53.27
Fishing	-	-	4.10	0.00	-	-	0.00	-	0.22	0.00	4.33
Non-specified	0.23	-	1.86	8.43	-	-	0.28	0.01	13.72	4.84	29.38
<b>NON-ENERGY USE</b>	<b>2.02</b>	<b>2.81</b>	<b>310.21</b>	<b>23.71</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>338.75</b>
in industry/transf./energy	1.86	2.81	302.49	23.71	-	-	-	-	-	-	330.87
of which: feedstocks	0.85	2.81	218.30	22.66	-	-	-	-	-	-	244.62
in transport	-	-	4.16	-	-	-	-	-	-	-	4.16
in other	0.16	-	3.56	-	-	-	-	-	-	-	3.72
<b>Electricity and Heat Output</b>											
<b>Elec. generated - TWh</b>	<b>3528.26</b>	<b>16.36</b>	<b>247.84</b>	<b>2199.90</b>	<b>2226.23</b>	<b>1251.69</b>	<b>282.22</b>	<b>231.28</b>	<b>-</b>	<b>0.55</b>	<b>9984.33</b>
Electricity plants	3229.81	16.36	191.25	1668.49	2216.41	1251.69	279.86	130.82	-	0.19	8984.87
CHP plants	298.46	-	56.60	531.41	9.82	-	2.37	100.47	-	0.35	999.46
<b>Heat generated - PJ</b>	<b>842.30</b>	<b>-</b>	<b>265.59</b>	<b>1350.03</b>	<b>5.06</b>	<b>-</b>	<b>7.19</b>	<b>485.69</b>	<b>6.75</b>	<b>44.74</b>	<b>3007.34</b>
CHP plants	705.56	-	231.33	1103.36	5.06	-	0.82	337.75	0.32	14.74	2398.92
Heat plants	136.74	-	34.27	246.67	-	-	6.37	147.94	6.43	30.00	608.42

\* Includes crude oil, NGL, refinery feedstocks, additives and other hydrocarbons.



## IEA

## Estimated energy supply balance for 2010

Million tonnes of oil equivalent											
SUPPLY	Coal & peat	Crude oil*	Oil products	Natural gas	Nuclear	Hydro	Geotherm. solar etc.	Biofuels & waste	Electricity	Heat	Total
Production	992.79	739.08	-	924.59	593.41	108.66	51.15	234.93	-	0.50	3645.10
Imports	355.05	1508.06	513.87	620.80	-	-	-	8.75	33.46	0.00	3039.98
Exports	-299.70	-271.69	-483.22	-292.70	-	-	-	-3.84	-32.28	-0.01	-1383.43
Intl. marine bunkers	-	-	-84.11	-	-	-	-	-	-	-	-84.11
Intl. aviation bunkers	-	-	-79.81	-	-	-	-	-	-	-	-79.81
Stock changes	22.22	-1.52	1.95	11.40	-	-	-	0.11	-	-	34.16
<b>TPES</b>	<b>1070.36</b>	<b>1973.94</b>	<b>-131.32</b>	<b>1264.08</b>	<b>593.41</b>	<b>108.66</b>	<b>51.15</b>	<b>239.95</b>	<b>1.17</b>	<b>0.50</b>	<b>5171.89</b>
Electricity and Heat Output											
Elec. generated - TWh	3635.71	19.53	228.93	2341.96	2276.48	1263.46	326.01	245.00	-	0.78	10337.85
Heat generated - PJ	886.77	-	275.66	1413.43	5.96	-	7.43	527.56	6.89	29.77	3153.46

\* Includes crude oil, NGL, refinery feedstocks, additives and other hydrocarbons.

## Key indicators

	1960	1971	1980	1990	2000	2008	2009	2010e
Energy production (Mtoe)	..	2299.9	2759.5	3228.4	3589.8	3618.9	3562.0	3645.1
Net imports (Mtoe)	..	1139.4	1341.1	1294.5	1604.6	1815.6	1641.3	1656.6
Total primary energy supply (Mtoe)	..	3314.0	3954.3	4356.9	5089.8	5229.7	4995.8	5171.9
Net oil imports (Mtoe)	..	1119.5	1263.7	1134.3	1294.4	1388.2	1262.2	1267.0
Oil supply (Mtoe)	..	1671.0	1867.7	1769.0	1999.2	1924.4	1829.8	1842.6
Electricity consumption (TWh)*	..	3508.6	5174.8	6944.8	8893.5	9850.4	9453.6	9809.0
GDP (billion 2000 USD)	6140.5	10523.9	14228.6	19589.4	25352.0	29625.7	28598.6	29420.6
GDP PPP (billion 2000 USD)	6617.3	11145.5	15036.6	20437.9	26724.1	31574.5	30528.2	31401.6
Population (millions)	735.33	831.75	898.93	961.11	1028.23	1083.13	1089.36	1094.15
Industrial production index (2005=100)	..	..	..	..	..	..	..	..
Total self-sufficiency**	..	0.6940	0.6978	0.7410	0.7053	0.6920	0.7130	0.7048
Coal and peat self-sufficiency**	..	0.9943	1.0043	0.9971	0.8864	0.9187	0.9624	0.9275
Oil self-sufficiency**	..	0.3951	0.3916	0.4349	0.4343	0.3762	0.4015	0.4011
Natural gas self-sufficiency**	..	1.0031	0.9191	0.8492	0.7807	0.7423	0.7526	0.7314
TPES/GDP (toe per thousand 2000 USD)	..	0.3149	0.2779	0.2224	0.2008	0.1765	0.1747	0.1758
TPES/GDP PPP (toe per thousand 2000 USD)	..	0.2973	0.2630	0.2132	0.1905	0.1656	0.1636	0.1647
TPES/population (toe per capita)	..	3.9844	4.3989	4.5332	4.9501	4.8283	4.5860	4.7268
Net oil imports/GDP (toe per thousand 2000 USD)	..	0.1064	0.0888	0.0579	0.0511	0.0469	0.0441	0.0431
Oil supply/GDP (toe per thousand 2000 USD)	..	0.1588	0.1313	0.0903	0.0789	0.0650	0.0640	0.0626
Oil supply/population (toe per capita)	..	2.0090	2.0777	1.8406	1.9443	1.7767	1.6797	1.6841
Elect. cons./GDP (kWh per 2000 USD)	..	0.3334	0.3637	0.3545	0.3508	0.3325	0.3306	0.3334
Elect. cons./population (kWh per capita)	..	4218	5757	7226	8649	9094	8678	8965
Industry cons.***/industrial production (2005=100)	..	..	..	..	..	..	..	..
Industry oil cons.***/industrial production (2005=100)	..	..	..	..	..	..	..	..

\* Electricity consumption equals domestic supply less losses.

\*\* Production divided by TPES.

\*\*\* Includes non-energy use.

IEA Total

Figure 1. Energy production

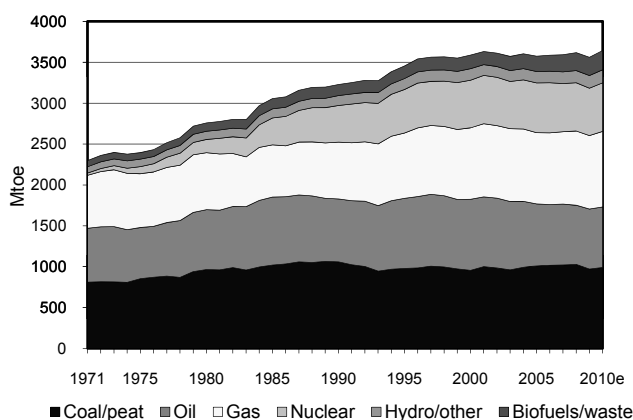


Figure 2. Total primary energy supply\*

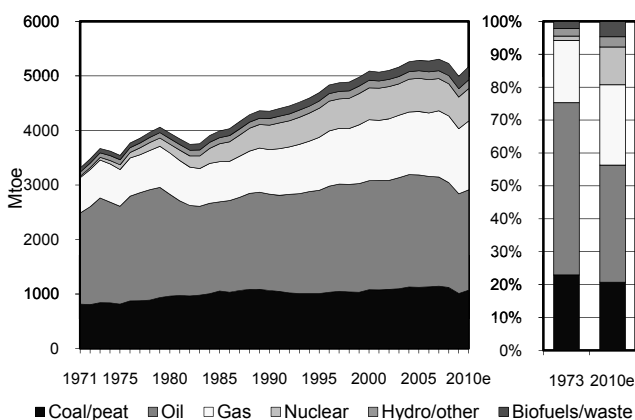


Figure 3. Energy self-sufficiency

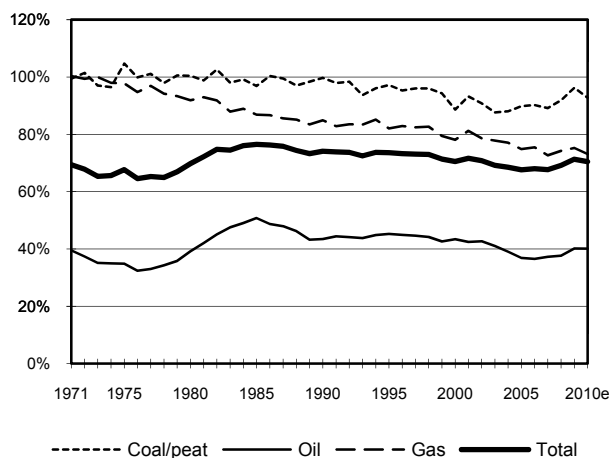


Figure 4. Breakdown of sectorial final consumption by source in 1973 and 2009\*\*

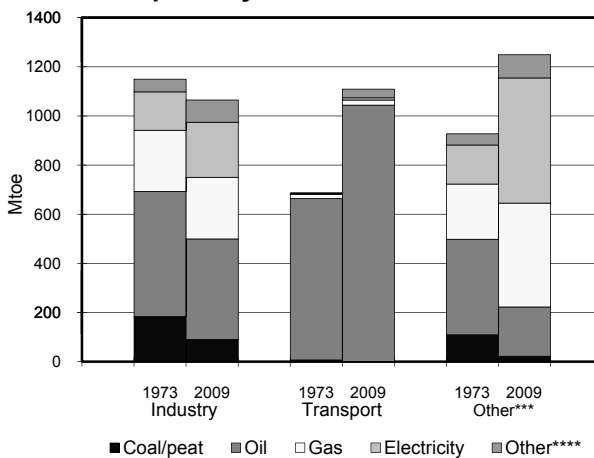


Figure 5. Electricity generation by fuel

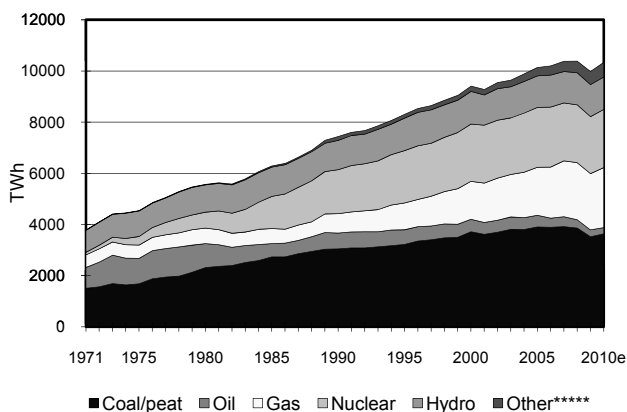
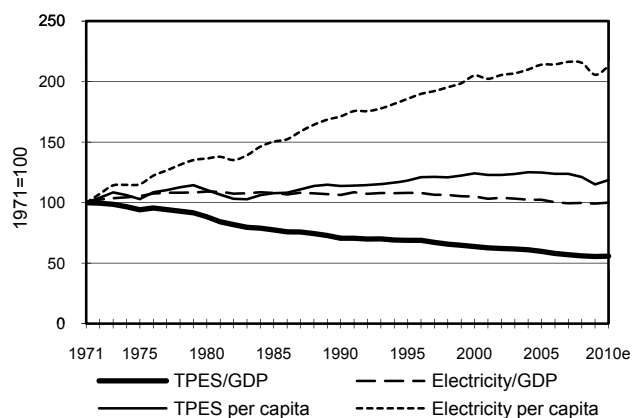


Figure 6. Selected indicators



\* Excluding electricity trade.

\*\* Includes non-energy use.

\*\*\* Includes residential, commercial and public services, agriculture/forestry, fishing and non-specified.

\*\*\*\* Includes biofuels and waste, direct use of geothermal/solar thermal and heat produced in CHP/heat plants.

\*\*\*\*\* Includes geothermal, solar, wind, biofuels and waste, etc.

## Australia : 2008

Million tonnes of oil equivalent

<b>SUPPLY AND CONSUMPTION</b>	Coal & peat	Crude oil*	Oil products	Natural gas	Nuclear	Hydro	Geotherm. solar etc.	Biofuels & waste	Electricity	Heat	Total
Production	230.46	23.86	-	39.38	-	1.02	0.44	5.89	-	-	301.04
Imports	0.00	21.34	14.39	4.34	-	-	-	-	-	-	40.07
Exports	-172.59	-14.99	-1.52	-15.99	-	-	-	-	-	-	-205.08
Intl. marine bunkers	-	-	-0.95	-	-	-	-	-	-	-	-0.95
Intl. aviation bunkers	-	-	-3.05	-	-	-	-	-	-	-	-3.05
Stock changes	-2.93	0.18	0.13	-	-	-	-	-	-	-	-2.62
<b>TPES</b>	<b>54.95</b>	<b>30.38</b>	<b>8.99</b>	<b>27.73</b>	-	<b>1.02</b>	<b>0.44</b>	<b>5.89</b>	-	-	<b>129.40</b>
Transfers	-	3.68	1.05	-	-	-	-	-	-	-	4.74
Statistical differences	0.53	-1.37	-1.98	-1.75	-	-	-	-	-	-	-4.57
Electricity plants	-48.12	-	-0.67	-6.33	-	-1.02	-0.28	-0.82	21.00	-	-36.24
CHP plants	-1.41	-	-	-1.48	-	-	-	-0.79	1.11	-	-2.57
Heat plants	-	-	-	-	-	-	-	-	-	-	-
Blast furnaces	-1.17	-	-	-0.08	-	-	-	-	-	-	-1.26
Gas works	0.08	-	-0.02	-0.27	-	-	-	-	-	-	-0.21
Coke/pat. fuel/BKB plants	-0.08	-	-0.02	-	-	-	-	-	-	-	-0.10
Oil refineries	-	-32.56	32.84	-	-	-	-	-	-	-	0.28
Petrochemical plants	-	-	-	-	-	-	-	-	-	-	-
Liquefaction plants	-	-	-	-	-	-	-	-	-	-	-
Other transformation	-	-	-	-	-	-	-	-	-	-	-
Energy industry own use	-0.69	-0.09	-2.20	-4.58	-	-	-	-	-2.42	-	-9.99
Losses	-	-	-	-	-	-	-	-	-1.45	-	-1.45
<b>TFC</b>	<b>4.08</b>	<b>0.04</b>	<b>38.00</b>	<b>13.24</b>	-	-	<b>0.16</b>	<b>4.28</b>	<b>18.24</b>	-	<b>78.04</b>
<b>INDUSTRY</b>	<b>3.94</b>	<b>0.04</b>	<b>3.90</b>	<b>8.29</b>	-	-	-	<b>2.68</b>	<b>8.16</b>	-	<b>27.00</b>
Iron and steel	0.51	-	0.06	0.57	-	-	-	-	0.71	-	1.85
Chemical and petrochem.	0.36	-	0.20	1.32	-	-	-	0.12	0.38	-	2.38
Non-ferrous metals	1.69	0.02	1.12	2.96	-	-	-	0.06	4.24	-	10.08
Non-metallic minerals	0.77	-	0.18	1.32	-	-	-	-	0.37	-	2.64
Transport equipment	-	-	-	-	-	-	-	-	-	-	-
Machinery	-	-	0.04	0.10	-	-	-	-	0.22	-	0.36
Mining and quarrying	0.13	0.01	1.67	0.66	-	-	-	-	0.98	-	3.45
Food and tobacco	0.25	-	0.06	0.71	-	-	-	2.04	0.64	-	3.71
Paper, pulp and printing	0.21	-	0.04	0.44	-	-	-	0.23	0.52	-	1.43
Wood and wood products	-	-	0.01	-	-	-	-	0.23	0.00	-	0.24
Construction	-	-	0.51	0.07	-	-	-	-	0.01	-	0.59
Textile and leather	0.02	0.01	0.01	0.13	-	-	-	-	0.07	-	0.24
Non-specified	-	-	-	0.01	-	-	-	-	0.02	-	0.03
<b>TRANSPORT</b>	<b>0.08</b>	-	<b>27.89</b>	<b>0.40</b>	-	-	-	<b>0.16</b>	<b>0.24</b>	-	<b>28.78</b>
Domestic aviation	-	-	2.13	-	-	-	-	-	-	-	2.13
Road	-	-	24.27	0.04	-	-	-	0.16	-	-	24.47
Rail	-	-	0.75	-	-	-	-	-	0.21	-	0.96
Pipeline transport	-	-	-	0.35	-	-	-	-	0.00	-	0.35
Domestic navigation	0.08	-	0.58	-	-	-	-	-	-	-	0.66
Non-specified	-	-	0.16	0.02	-	-	-	-	0.04	-	0.22
<b>OTHER</b>	<b>0.06</b>	-	<b>2.88</b>	<b>3.86</b>	-	-	<b>0.16</b>	<b>1.44</b>	<b>9.84</b>	-	<b>18.24</b>
Residential	0.01	-	0.35	2.94	-	-	0.15	1.43	5.00	-	9.88
Comm. and public services	0.05	-	0.59	0.92	-	-	0.00	0.01	4.68	-	6.25
Agriculture/forestry	-	-	1.95	0.00	-	-	-	-	0.16	-	2.11
Fishing	-	-	-	-	-	-	-	-	-	-	-
Non-specified	-	-	-	-	-	-	-	-	-	-	-
<b>NON-ENERGY USE</b>	-	-	<b>3.33</b>	<b>0.69</b>	-	-	-	-	-	-	<b>4.02</b>
in industry/transf./energy	-	-	3.33	0.69	-	-	-	-	-	-	4.02
of which: feedstocks	-	-	1.24	0.69	-	-	-	-	-	-	1.93
in transport	-	-	-	-	-	-	-	-	-	-	-
in other	-	-	-	-	-	-	-	-	-	-	-
<b>Electricity and Heat Output</b>											
<b>Elec. generated - TWh</b>	<b>200.84</b>	-	<b>2.78</b>	<b>35.52</b>	-	<b>11.91</b>	<b>3.25</b>	<b>2.80</b>	-	-	<b>257.10</b>
Electricity plants	195.43	-	2.78	29.02	-	11.91	3.25	1.77	-	-	244.17
CHP plants	5.41	-	-	6.50	-	-	-	1.03	-	-	12.93
<b>Heat generated - PJ</b>	-	-	-	-	-	-	-	-	-	-	-
CHP plants	-	-	-	-	-	-	-	-	-	-	-
Heat plants	-	-	-	-	-	-	-	-	-	-	-

\* Includes crude oil, NGL, refinery feedstocks, additives and other hydrocarbons.

## Australia : 2009

Million tonnes of oil equivalent											
SUPPLY AND CONSUMPTION	Coal & peat	Crude oil*	Oil products	Natural gas	Nuclear	Hydro	Geotherm. solar etc.	Biofuels & waste	Electricity	Heat	Total
Production	236.64	25.50	-	41.17	-	1.05	0.55	5.78	-	-	310.70
Imports	-	19.88	15.56	5.12	-	-	-	-	-	-	40.56
Exports	-179.12	-15.42	-1.00	-18.02	-	-	-	-	-	-	-213.56
Intl. marine bunkers	-	-	-0.83	-	-	-	-	-	-	-	-0.83
Intl. aviation bunkers	-	-	-3.12	-	-	-	-	-	-	-	-3.12
Stock changes	-2.46	0.04	-0.27	-	-	-	-	-	-	-	-2.69
<b>TPES</b>	<b>55.05</b>	<b>30.00</b>	<b>10.36</b>	<b>28.28</b>	-	<b>1.05</b>	<b>0.55</b>	<b>5.78</b>	-	-	<b>131.07</b>
Transfers	-	4.44	1.12	-	-	-	-	-	-	-	5.56
Statistical differences	0.60	-1.44	-3.87	-1.93	-	-	-	-	0.00	-	-6.63
Electricity plants	-48.73	-	-0.62	-6.40	-	-1.05	-0.35	-0.80	21.33	-	-36.63
CHP plants	-1.42	-	-	-1.50	-	-	-	-0.77	1.11	-	-2.59
Heat plants	-	-	-	-	-	-	-	-	-	-	-
Blast furnaces	-0.95 e	-	-	-0.05 e	-	-	-	-	-	-	-1.00
Gas works	0.06	-	-0.01	-0.26	-	-	-	-	-	-	-0.22
Coke/pat. fuel/BKB plants	-0.04	-	-0.02	-	-	-	-	-	-	-	-0.05
Oil refineries	-	-32.85	32.76	-	-	-	-	-	-	-	-0.09
Petrochemical plants	-	-	-	-	-	-	-	-	-	-	-
Liquefaction plants	-	-	-	-	-	-	-	-	-	-	-
Other transformation	-	-	-	-	-	-	-	-	-	-	-
Energy industry own use	-0.50	-0.11	-2.08	-4.97	-	-	-	-	-2.59	-	-10.25
Losses	-	-	-	-	-	-	-	-	-1.46	-	-1.46
<b>TFC</b>	<b>4.08</b>	<b>0.04</b>	<b>37.63</b>	<b>13.16</b>	-	-	<b>0.20</b>	<b>4.21</b>	<b>18.38</b>	-	<b>77.71</b>
<b>INDUSTRY</b>	<b>3.95</b>	<b>0.04</b>	<b>3.83</b>	<b>8.11</b>	-	-	-	<b>2.61</b>	<b>8.08</b>	-	<b>26.61</b>
Iron and steel	0.88 e	-	0.06	0.47 e	-	-	-	-	0.68	-	2.08
Chemical and petrochem.	0.28	-	0.17	1.23	-	-	-	0.11	0.36	-	2.16
Non-ferrous metals	1.47	0.02	1.04	2.96	-	-	-	0.06	4.21	-	9.75
Non-metallic minerals	0.73	-	0.19	1.29	-	-	-	-	0.35	-	2.56
Transport equipment	-	-	-	-	-	-	-	-	-	-	-
Machinery	-	-	0.04	0.10	-	-	-	-	0.21	-	0.35
Mining and quarrying	0.13	0.01	1.71	0.66	-	-	-	-	0.99	-	3.50
Food and tobacco	0.25	-	0.06	0.75	-	-	-	1.99	0.66	-	3.71
Paper, pulp and printing	0.20	-	0.04	0.46	-	-	-	0.21	0.52	-	1.43
Wood and wood products	-	-	0.01	-	-	-	-	0.23	0.00	-	0.24
Construction	-	-	0.50	0.07	-	-	-	-	0.01	-	0.58
Textile and leather	0.02	0.01	0.01	0.12	-	-	-	-	0.06	-	0.22
Non-specified	-	-	-	0.01	-	-	-	-	0.02	-	0.03
<b>TRANSPORT</b>	<b>0.09</b>	-	<b>27.61</b>	<b>0.42</b>	-	-	-	<b>0.24</b>	<b>0.25</b>	-	<b>28.60</b>
Domestic aviation	-	-	2.16	-	-	-	-	-	-	-	2.16
Road	-	-	23.93	0.04	-	-	-	0.24	-	-	24.21
Rail	-	-	0.77	-	-	-	-	-	0.21	-	0.98
Pipeline transport	-	-	-	0.36	-	-	-	-	0.00	-	0.36
Domestic navigation	0.09	-	0.59	-	-	-	-	-	-	-	0.68
Non-specified	-	-	0.16	0.02	-	-	-	-	0.04	-	0.21
<b>OTHER</b>	<b>0.05</b>	-	<b>2.96</b>	<b>4.02</b>	-	-	<b>0.20</b>	<b>1.37</b>	<b>10.06</b>	-	<b>18.66</b>
Residential	0.01	-	0.34	3.01	-	-	0.19	1.36	5.10	-	10.01
Comm. and public services	0.04	-	0.61	1.01	-	-	0.01	0.01	4.81	-	6.48
Agriculture/forestry	-	-	2.01	0.00	-	-	-	-	0.15	-	2.16
Fishing	-	-	-	-	-	-	-	-	-	-	-
Non-specified	-	-	-	-	-	-	-	-	-	-	-
<b>NON-ENERGY USE</b>	-	-	<b>3.23</b>	<b>0.62</b>	-	-	-	-	-	-	<b>3.85</b>
in industry/transf./energy	-	-	3.23	0.62	-	-	-	-	-	-	3.85
of which: feedstocks	-	-	1.18	0.62	-	-	-	-	-	-	1.80
in transport	-	-	-	-	-	-	-	-	-	-	-
in other	-	-	-	-	-	-	-	-	-	-	-
<b>Electricity and Heat Output</b>											
<b>Elec. generated - TWh</b>	<b>203.33</b>	-	<b>2.64</b>	<b>35.85</b>	-	<b>12.23</b>	<b>4.08</b>	<b>2.76</b>	-	-	<b>260.90</b>
Electricity plants	197.80	-	2.64	29.51	-	12.23	4.08	1.78	-	-	248.03
CHP plants	5.54	-	-	6.35	-	-	-	0.99	-	-	12.87
<b>Heat generated - PJ</b>	-	-	-	-	-	-	-	-	-	-	-
CHP plants	-	-	-	-	-	-	-	-	-	-	-
Heat plants	-	-	-	-	-	-	-	-	-	-	-

\* Includes crude oil, NGL, refinery feedstocks, additives and other hydrocarbons.

## Australia

## Estimated energy supply balance for 2010

Million tonnes of oil equivalent											
SUPPLY	Coal & peat	Crude oil*	Oil products	Natural gas	Nuclear	Hydro	Geotherm. solar etc.	Biofuels & waste	Electricity	Heat	Total
Production	250.35	23.99	-	43.08	-	1.07	0.59	4.94	-	-	324.02
Imports	-	22.29	15.65	4.56	-	-	-	-	-	-	42.51
Exports	-203.60	-16.67	-0.71	-21.63	-	-	-	-	-	-	-242.61
Intl. marine bunkers	-	-	-0.73	-	-	-	-	-	-	-	-0.73
Intl. aviation bunkers	-	-	-3.19	-	-	-	-	-	-	-	-3.19
Stock changes	6.15	-0.44	0.12	-	-	-	-	-	-	-	5.84
<b>TPES</b>	<b>52.91</b>	<b>29.17</b>	<b>11.15</b>	<b>26.01</b>	-	<b>1.07</b>	<b>0.59</b>	<b>4.94</b>	-	-	<b>125.84</b>
Electricity and Heat Output											
Elec. generated - TWh	194.21	-	1.74	41.59	-	12.46	4.08	2.11	-	-	256.20
Heat generated - PJ	-	-	-	-	-	-	-	-	-	-	-

\* Includes crude oil, NGL, refinery feedstocks, additives and other hydrocarbons.

## Key indicators

	1960	1971	1980	1990	2000	2008	2009	2010e
Energy production (Mtoe)	21.3	53.9	85.4	157.5	233.6	301.0	310.7	324.0
Net imports (Mtoe)	12.0	-1.7	-16.6	-64.5	-127.1	-165.0	-173.0	-200.1
Total primary energy supply (Mtoe)	31.5	51.6	69.6	86.2	108.1	129.4	131.1	125.8
Net oil imports (Mtoe)	12.7	11.3	11.3	5.1	3.6	19.2	19.0	20.6
Oil supply (Mtoe)	11.2	24.2	30.1	31.2	34.2	39.4	40.4	40.3
Electricity consumption (TWh)*	18.8	48.5	86.9	145.5	195.3	240.4	244.0	239.3
GDP (billion 2000 USD)	97.3 e	168.7	216.9	289.3	411.0	528.7	535.2	549.0
GDP PPP (billion 2000 USD)	128.0 e	221.8	285.2	380.4	540.4	695.2	703.8	722.0
Population (millions)	10.40 e	13.20	14.81	17.17	19.27	21.64	22.10	22.17
Industrial production index (2005=100)	..	..	57.00	73.20	94.10	108.00	106.20	110.80
Total self-sufficiency**	0.6767	1.0434	1.2271	1.8269	2.1603	2.3264	2.3705	2.5749
Coal and peat self-sufficiency**	1.0615	1.5473	1.8997	3.0332	3.4175 e	4.1942	4.2983	4.7319
Oil self-sufficiency**	..	0.6140	0.7084	0.9303	0.9929	0.6060	0.6320	0.5949
Natural gas self-sufficiency**	..	1.0000	1.0000	1.1589	1.4807	1.4199	1.4560	1.6564
TPES/GDP (toe per thousand 2000 USD)	0.3234 e	0.3060	0.3210	0.2981	0.2631	0.2448	0.2449	0.2292
TPES/GDP PPP (toe per thousand 2000 USD)	0.2460 e	0.2327	0.2441	0.2267	0.2000	0.1861	0.1862	0.1743
TPES/population (toe per capita)	3.0263 e	3.9107	4.7007	5.0219	5.6103	5.9792	5.9305	5.6750
Net oil imports/GDP (toe per thousand 2000 USD)	0.1308 e	0.0667	0.0519	0.0176	0.0086	0.0363	0.0355	0.0375
Oil supply/GDP (toe per thousand 2000 USD)	0.1146 e	0.1431	0.1387	0.1079	0.0831	0.0745	0.0754	0.0734
Oil supply/population (toe per capita)	1.0722 e	1.8296	2.0311	1.8172	1.7723	1.8194	1.8260	1.8185
Elect. cons./GDP (kWh per 2000 USD)	0.1927 e	0.2877	0.4008	0.5030	0.4751	0.4547	0.4558	0.4358
Elect. cons./population (kWh per capita)	1803 e	3678	5869	8475	10132	11108	11038	10790
Industry cons.***/industrial production (2005=100)	..	..	119.38	105.31	99.75	95.59	95.42	..
Industry oil cons.***/industrial production (2005=100)	..	..	202.81	127.09	118.20	98.08	97.39	..

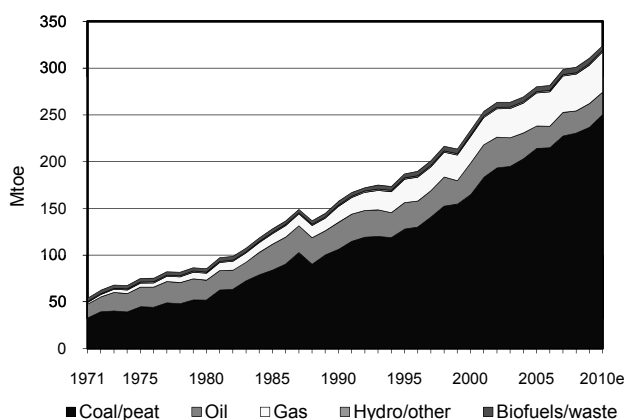
\* Electricity consumption equals domestic supply less losses.

\*\* Production divided by TPES.

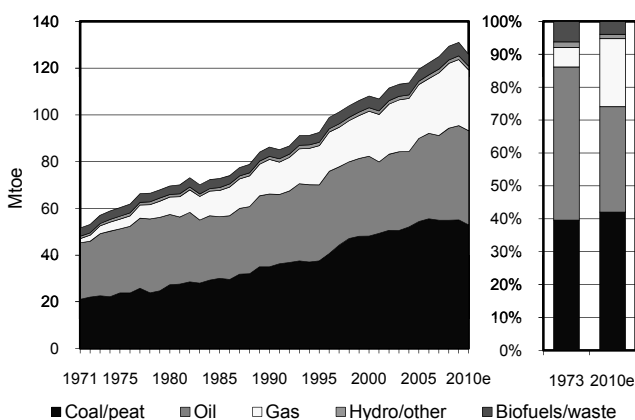
\*\*\* Includes non-energy use.

## Australia

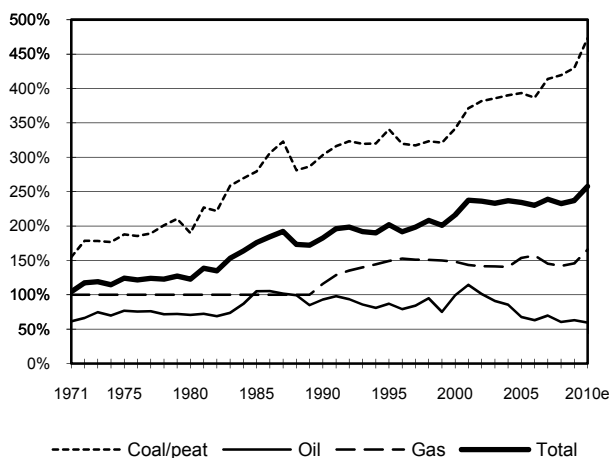
**Figure 1. Energy production**



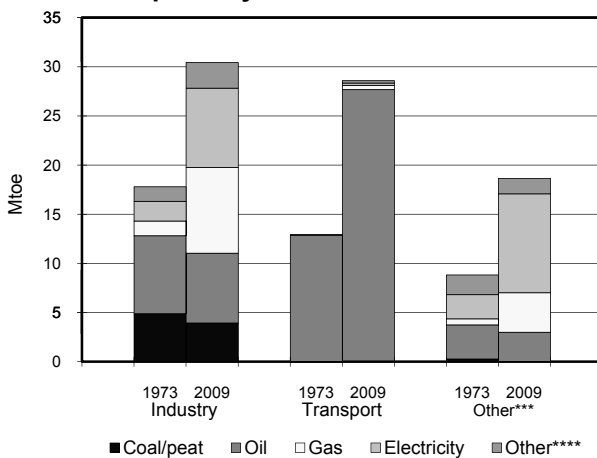
**Figure 2. Total primary energy supply\***



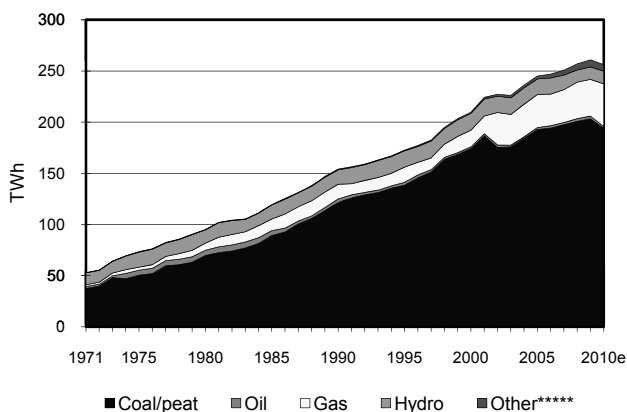
**Figure 3. Energy self-sufficiency**



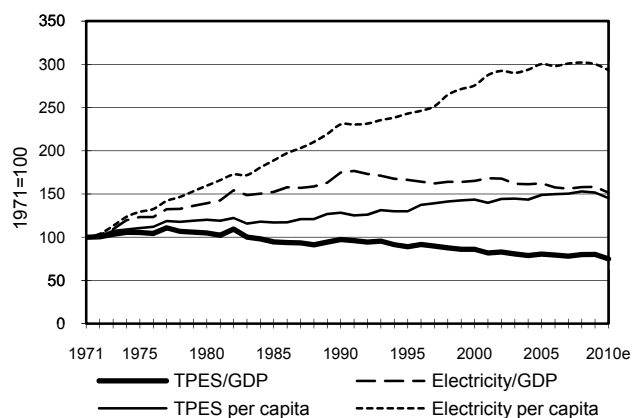
**Figure 4. Breakdown of sectorial final consumption by source in 1973 and 2009\*\***



**Figure 5. Electricity generation by fuel**



**Figure 6. Selected indicators**



\* Excluding electricity trade.

\*\* Includes non-energy use.

\*\*\* Includes residential, commercial and public services, agriculture/forestry, fishing and non-specified.

\*\*\*\* Includes biofuels and waste, direct use of geothermal/solar thermal and heat produced in CHP/heat plants.

\*\*\*\*\* Includes geothermal, solar, wind, biofuels and waste, etc.

## Austria : 2008

Million tonnes of oil equivalent											
SUPPLY AND CONSUMPTION	Coal & peat	Crude oil*	Oil products	Natural gas	Nuclear	Hydro	Geotherm. solar etc.	Biofuels & waste	Electricity	Heat	Total
Production	0.00	0.99	-	1.32	-	3.26	0.32	5.33	-	0.00	11.22
Imports	3.90	8.33	6.55	8.30	-	-	-	0.70	1.70	-	29.49
Exports	-0.00	-0.02	-2.41	-1.79	-	-	-	-0.48	-1.28	-	-5.98
Intl. marine bunkers	-	-	-	-	-	-	-	-	-	-	-
Intl. aviation bunkers	-	-	-0.60	-	-	-	-	-	-	-	-0.60
Stock changes	-0.13	0.01	-0.14	-0.36	-	-	-	-0.02	-	-	-0.64
<b>TPES</b>	<b>3.77</b>	<b>9.31</b>	<b>3.41</b>	<b>7.47</b>	-	<b>3.26</b>	<b>0.32</b>	<b>5.53</b>	<b>0.42</b>	<b>0.00</b>	<b>33.49</b>
Transfers	-	0.01	0.00	-	-	-	-	-	-	-	0.01
Statistical differences	-0.00	-0.00	0.00	-0.00	-	-	-	0.00	-	-	0.00
Electricity plants	-1.30	-	-0.10	-0.73	-	-3.26	-0.18	-0.56	4.59	-0.00	-1.55
CHP plants	-0.19	-	-0.25	-1.36	-	-	-	-0.85	0.92	1.06	-0.68
Heat plants	-	-	-0.05	-0.30	-	-	-0.03	-0.38	-	0.54	-0.21
Blast furnaces	-0.78	-	-0.22	-	-	-	-	-	-	-	-1.00
Gas works	-	-	-	-	-	-	-	-	-	-	-
Coke/pat. fuel/BKB plants	-0.05	-	-	-	-	-	-	-	-	-	-0.05
Oil refineries	-	-9.32	9.36	-	-	-	-	-	-	-	0.04
Petrochemical plants	-	-	-	-	-	-	-	-	-	-	-
Liquefaction plants	-	-	-	-	-	-	-	-	-	-	-
Other transformation	-	-	-	-	-	-	-	-0.00	-	-	-0.00
Energy industry own use	-0.68	-	-0.75	-0.37	-	-	-	-	-0.40	-	-2.19
Losses	-0.06	-	-	-	-	-	-	-	-0.30	-0.15	-0.51
<b>TFC</b>	<b>0.70</b>	-	<b>11.40</b>	<b>4.71</b>	-	-	<b>0.12</b>	<b>3.73</b>	<b>5.23</b>	<b>1.44</b>	<b>27.34</b>
<b>INDUSTRY</b>	<b>0.60</b>	-	<b>0.70</b>	<b>2.43</b>	-	-	-	<b>1.52</b>	<b>2.25</b>	<b>0.20</b>	<b>7.69</b>
Iron and steel	0.36	-	0.03	0.35	-	-	-	0.09	0.30	0.00	1.13
Chemical and petrochem.	0.01	-	0.02	0.38	-	-	-	0.19	0.33	0.04	0.97
Non-ferrous metals	0.00	-	0.01	0.09	-	-	-	0.00	0.07	0.00	0.18
Non-metallic minerals	0.16	-	0.09	0.33	-	-	-	0.25	0.18	0.00	1.00
Transport equipment	-	-	0.01	0.04	-	-	-	0.00	0.06	0.02	0.13
Machinery	-	-	0.04	0.17	-	-	-	0.01	0.28	0.03	0.53
Mining and quarrying	-	-	0.01	0.07	-	-	-	0.00	0.07	0.00	0.15
Food and tobacco	0.00	-	0.06	0.27	-	-	-	0.01	0.15	0.02	0.51
Paper, pulp and printing	0.06	-	0.02	0.52	-	-	-	0.57	0.41	0.02	1.61
Wood and wood products	-	-	0.00	0.08	-	-	-	0.33	0.15	0.05	0.62
Construction	-	-	0.39	0.04	-	-	-	0.04	0.05	0.01	0.53
Textile and leather	-	-	0.01	0.05	-	-	-	0.00	0.04	0.00	0.10
Non-specified	-	-	0.01	0.04	-	-	-	0.03	0.14	0.01	0.24
<b>TRANSPORT</b>	-	-	<b>7.20</b>	<b>0.25</b>	-	-	-	<b>0.39</b>	<b>0.30</b>	-	<b>8.14</b>
Domestic aviation	-	-	0.15	-	-	-	-	-	-	-	0.15
Road	-	-	6.99	0.00	-	-	-	0.38	-	-	7.38
Rail	-	-	0.05	-	-	-	-	0.00	0.16	-	0.21
Pipeline transport	-	-	-	0.25	-	-	-	-	0.01	-	0.26
Domestic navigation	-	-	0.01	-	-	-	-	0.00	-	-	0.01
Non-specified	-	-	-	-	-	-	-	0.00	0.13	-	0.13
<b>OTHER</b>	<b>0.09</b>	-	<b>2.10</b>	<b>1.77</b>	-	-	<b>0.12</b>	<b>1.82</b>	<b>2.68</b>	<b>1.24</b>	<b>9.82</b>
Residential	0.08	-	1.35	1.15	-	-	0.07	1.56	1.48	0.51	6.21
Comm. and public services	0.01	-	0.50	0.60	-	-	0.05	0.07	1.13	0.72	3.08
Agriculture/forestry	0.00	-	0.25	0.01	-	-	0.00	0.20	0.07	0.01	0.54
Fishing	-	-	-	-	-	-	-	-	-	-	-
Non-specified	-	-	-	-	-	-	-	-	-	-	-
<b>NON-ENERGY USE</b>	<b>0.02</b>	-	<b>1.40</b>	<b>0.27</b>	-	-	-	-	-	-	<b>1.68</b>
in industry/transf./energy	0.02	-	1.37	0.27	-	-	-	-	-	-	1.65
of which: feedstocks	0.02	-	0.84	0.27	-	-	-	-	-	-	1.12
in transport	-	-	0.03	-	-	-	-	-	-	-	0.03
in other	-	-	0.00	-	-	-	-	-	-	-	0.00
<b>Electricity and Heat Output</b>											
<b>Elec. generated - TWh</b>	<b>6.95</b>	-	<b>1.24</b>	<b>11.16</b>	-	<b>37.90</b>	<b>2.04</b>	<b>4.77</b>	-	<b>0.02</b>	<b>64.08</b>
Electricity plants	6.37	-	0.51	4.29	-	37.90	2.04	2.23	-	0.02	53.37
CHP plants	0.58	-	0.73	6.87	-	-	-	2.54	-	-	10.71
<b>Heat generated - PJ</b>	<b>3.37</b>	-	<b>5.82</b>	<b>29.23</b>	-	-	<b>0.54</b>	<b>27.77</b>	-	<b>0.16</b>	<b>66.88</b>
CHP plants	3.37	-	4.23	19.80	-	-	-	16.81	-	-	44.21
Heat plants	-	-	1.59	9.44	-	-	0.54	10.96	-	0.16	22.68

\* Includes crude oil, NGL, refinery feedstocks, additives and other hydrocarbons.

## Austria : 2009

Million tonnes of oil equivalent											
<b>SUPPLY AND CONSUMPTION</b>	Coal & peat	Crude oil*	Oil products	Natural gas	Nuclear	Hydro	Geotherm. solar etc.	Biofuels & waste	Electricity	Heat	Total
Production	0.00	1.06	-	1.43	-	3.47	0.33	5.11	-	0.00	11.40
Imports	2.79	7.71	6.06	9.50	-	-	-	0.82	1.68	-	28.57
Exports	-0.01	-0.00	-2.20	-3.40	-	-	-	-0.35	-1.61	-	-7.58
Intl. marine bunkers	-	-	-	-	-	-	-	-	-	-	-
Intl. aviation bunkers	-	-	-0.53	-	-	-	-	-	-	-	-0.53
Stock changes	0.12	0.02	0.03	-0.37	-	-	-	-0.00	-	-	-0.20
<b>TPES</b>	<b>2.90</b>	<b>8.79</b>	<b>3.37</b>	<b>7.16</b>	-	<b>3.47</b>	<b>0.33</b>	<b>5.57</b>	<b>0.07</b>	<b>0.00</b>	<b>31.66</b>
Transfers	-	-0.02	0.04	-	-	-	-	-	-	-	0.02
Statistical differences	-0.06	-0.00	-0.01	-0.00	-	-	-	0.00	-	-	-0.07
Electricity plants	-0.93	-	-0.09	-0.71	-	-3.47	-0.17	-0.61	4.64	-0.00	-1.35
CHP plants	-0.18	-	-0.30	-1.47	-	-	-	-0.86	1.01	1.07	-0.72
Heat plants	-	-	-0.06	-0.31	-	-	-0.03	-0.40	-	0.58	-0.21
Blast furnaces	-0.60	-	-0.11	-	-	-	-	-	-	-	-0.72
Gas works	-	-	-	-	-	-	-	-	-	-	-
Coke/pat. fuel/BKB plants	-0.07	-	-	-	-	-	-	-	-	-	-0.07
Oil refineries	-	-8.77	8.74	-	-	-	-	-	-	-	-0.03
Petrochemical plants	-	-	-	-	-	-	-	-	-	-	-
Liquefaction plants	-	-	-	-	-	-	-	-	-	-	-
Other transformation	-	-	-	-	-	-	-	-0.00	-	-	-0.00
Energy industry own use	-0.43	-	-0.59	-0.39	-	-	-	-	-0.37	-	-1.77
Losses	-0.03	-	-	..	-	-	-	-	-0.28	-0.13	-0.45
<b>TFC</b>	<b>0.61</b>	-	<b>10.99</b>	<b>4.28</b>	-	-	<b>0.13</b>	<b>3.71</b>	<b>5.06</b>	<b>1.52</b>	<b>26.28</b>
<b>INDUSTRY</b>	<b>0.51</b>	-	<b>0.72</b>	<b>2.27</b>	-	-	-	<b>1.39</b>	<b>2.20</b>	<b>0.24</b>	<b>7.33</b>
Iron and steel	0.26	-	0.06	0.39	-	-	-	0.01	0.31	0.00	1.05
Chemical and petrochem.	0.01	-	0.02	0.24	-	-	-	0.15	0.32	0.05	0.79
Non-ferrous metals	0.00	-	0.01	0.10	-	-	-	0.00	0.07	0.00	0.18
Non-metallic minerals	0.16	-	0.09	0.31	-	-	-	0.25	0.18	0.00	0.99
Transport equipment	-	-	0.00	0.03	-	-	-	0.00	0.06	0.03	0.14
Machinery	-	-	0.04	0.18	-	-	-	0.01	0.27	0.03	0.53
Mining and quarrying	-	-	0.01	0.04	-	-	-	0.00	0.06	0.00	0.11
Food and tobacco	0.00	-	0.06	0.27	-	-	-	0.01	0.16	0.03	0.54
Paper, pulp and printing	0.06	-	0.02	0.52	-	-	-	0.51	0.38	0.02	1.52
Wood and wood products	-	-	0.00	0.07	-	-	-	0.35	0.14	0.05	0.62
Construction	-	-	0.38	0.04	-	-	-	0.05	0.06	0.01	0.54
Textile and leather	-	-	0.01	0.04	-	-	-	0.00	0.04	0.00	0.10
Non-specified	-	-	0.01	0.04	-	-	-	0.04	0.13	0.01	0.23
<b>TRANSPORT</b>	-	-	<b>7.04</b>	<b>0.19</b>	-	-	-	<b>0.49</b>	<b>0.29</b>	-	<b>8.00</b>
Domestic aviation	-	-	0.12	-	-	-	-	-	-	-	0.12
Road	-	-	6.86	0.00	-	-	-	0.48	-	-	7.34
Rail	-	-	0.05	-	-	-	-	0.00	0.15	-	0.20
Pipeline transport	-	-	-	0.18	-	-	-	-	0.01	-	0.19
Domestic navigation	-	-	0.01	-	-	-	-	0.00	-	-	0.01
Non-specified	-	-	-	-	-	-	-	0.00	0.12	-	0.12
<b>OTHER</b>	<b>0.09</b>	-	<b>1.86</b>	<b>1.58</b>	-	-	<b>0.13</b>	<b>1.83</b>	<b>2.57</b>	<b>1.28</b>	<b>9.33</b>
Residential	0.08	-	1.35	1.17	-	-	0.08	1.56	1.49	0.51	6.24
Comm. and public services	0.01	-	0.27	0.39	-	-	0.05	0.07	1.01	0.76	2.56
Agriculture/forestry	0.00	-	0.24	0.01	-	-	0.00	0.20	0.07	0.01	0.53
Fishing	-	-	-	-	-	-	-	-	-	-	-
Non-specified	-	-	-	-	-	-	-	-	-	-	-
<b>NON-ENERGY USE</b>	<b>0.01</b>	-	<b>1.37</b>	<b>0.24</b>	-	-	-	-	-	-	<b>1.63</b>
in industry/transf./energy	0.01	-	1.34	0.24	-	-	-	-	-	-	1.60
<i>of which: feedstocks</i>	<i>0.01</i>	-	<i>0.83</i>	<i>0.24</i>	-	-	-	-	-	-	<i>1.09</i>
in transport	-	-	0.02	-	-	-	-	-	-	-	0.02
in other	-	-	0.00	-	-	-	-	-	-	-	0.00
<b>Electricity and Heat Output</b>											
<b>Elec. generated - TWh</b>	<b>5.03</b>	-	<b>1.14</b>	<b>12.34</b>	-	<b>40.29</b>	<b>2.00</b>	<b>4.80</b>	-	<b>0.02</b>	<b>65.62</b>
Electricity plants	4.49	-	0.42	4.37	-	40.29	2.00	2.32	-	0.02	53.91
CHP plants	0.55	-	0.71	7.97	-	-	-	2.48	-	-	11.71
<b>Heat generated - PJ</b>	<b>3.14</b>	-	<b>7.04</b>	<b>30.37</b>	-	-	<b>0.54</b>	<b>28.00</b>	-	<b>0.15</b>	<b>69.22</b>
CHP plants	3.14	-	5.25	19.76	-	-	-	16.77	-	-	44.92
Heat plants	-	-	1.79	10.61	-	-	0.54	11.23	-	0.15	24.30

\* Includes crude oil, NGL, refinery feedstocks, additives and other hydrocarbons.



## Austria

## Estimated energy supply balance for 2010

Million tonnes of oil equivalent											
SUPPLY	Coal & peat	Crude oil*	Oil products	Natural gas	Nuclear	Hydro	Geotherm. solar etc.	Biofuels & waste	Electricity	Heat	Total
Production	0.00	1.03	-	1.49	-	2.99	0.37	5.30	-	0.00	11.17
Imports	3.11	7.13	6.69	10.19	-	-	-	0.91	1.70	-	29.72
Exports	-0.01	-0.04	-2.11	-4.08	-	-	-	-0.44	-1.51	-	-8.17
Intl. marine bunkers	-	-	-	-	-	-	-	-	-	-	-
Intl. aviation bunkers	-	-	-0.57	-	-	-	-	-	-	-	-0.57
Stock changes	0.06	0.05	0.19	0.61	-	-	-	-	-	-	0.92
<b>TPES</b>	<b>3.16</b>	<b>8.17</b>	<b>4.20</b>	<b>8.21</b>	<b>-</b>	<b>2.99</b>	<b>0.37</b>	<b>5.77</b>	<b>0.19</b>	<b>0.00</b>	<b>33.07</b>
Electricity and Heat Output											
Elec. generated - TWh	6.28	-	1.26	14.46	-	34.77	2.06	8.17	-	0.02	67.02
Heat generated - PJ	3.56	-	7.98	34.42	-	-	0.61	31.73	-	0.15	78.44

\* Includes crude oil, NGL, refinery feedstocks, additives and other hydrocarbons.

## Key indicators

	1960	1971	1980	1990	2000	2008	2009	2010e
Energy production (Mtoe)	7.4	7.4	7.6	8.1	9.8	11.2	11.4	11.2
Net imports (Mtoe)	3.8	11.6	16.1	17.3	19.1	23.5	21.0	21.5
Total primary energy supply (Mtoe)	10.9	18.8	23.2	24.8	28.6	33.5	31.7	33.1
Net oil imports (Mtoe)	0.6	7.8	11.0	9.6	11.0	12.5	11.6	11.7
Oil supply (Mtoe)	3.0	10.0	12.1	10.3	11.8	12.7	12.2	12.4
Electricity consumption (TWh)*	12.8	24.1	35.4	46.9	57.0	68.3	66.5	69.7
GDP (billion 2000 USD)	53.2 e	88.6	120.3	149.0	191.2	227.2	218.4	222.6
GDP PPP (billion 2000 USD)	64.1 e	106.8	145.0	179.6	230.5	273.9	263.2	268.4
Population (millions)	7.05 e	7.50	7.55	7.68	8.01	8.34	8.36	8.39
Industrial production index (2005=100)	17.90	32.70	45.50	59.70	85.40	116.00	103.10	110.00
Total self-sufficiency**	0.6752	0.3915	0.3296	0.3271	0.3423	0.3352	0.3601	0.3379
Coal and peat self-sufficiency**	0.3642	0.2543	0.2306	0.1556	0.0814	0.0001	0.0001	0.0001
Oil self-sufficiency**	0.8370	0.2617	0.1260	0.1169	0.0929	0.0782	0.0868	0.0830
Natural gas self-sufficiency**	1.0000	0.5768	0.4019	0.2115	0.2351	0.1762	0.2000	0.1809
TPES/GDP (toe per thousand 2000 USD)	0.2049 e	0.2124	0.1925	0.1663	0.1494	0.1474	0.1450	0.1485
TPES/GDP PPP (toe per thousand 2000 USD)	0.1699 e	0.1762	0.1597	0.1380	0.1240	0.1223	0.1203	0.1232
TPES/population (toe per capita)	1.5464 e	2.5083	3.0672	3.2277	3.5659	4.0166	3.7854	3.9416
Net oil imports/GDP (toe per thousand 2000 USD)	0.0105 e	0.0881	0.0914	0.0646	0.0574	0.0548	0.0530	0.0524
Oil supply/GDP (toe per thousand 2000 USD)	0.0561 e	0.1134	0.1004	0.0694	0.0614	0.0560	0.0557	0.0556
Oil supply/population (toe per capita)	0.4236 e	1.3390	1.6004	1.3463	1.4662	1.5253	1.4535	1.4745
Elect. cons./GDP (kWh per 2000 USD)	0.2404 e	0.2720	0.2940	0.3146	0.2979	0.3005	0.3044	0.3132
Elect. cons./population (kWh per capita)	1815 e	3213	4685	6104	7109	8190	7947	8312
Industry cons.***/industrial production (2005=100)	242.18	189.49	155.82	124.69	98.98	90.09	96.84	..
Industry oil cons.***/industrial production (2005=100)	325.20	399.47	199.56	144.22	103.44	85.48	96.04	..

\* Electricity consumption equals domestic supply less losses.

\*\* Production divided by TPES.

\*\*\* Includes non-energy use.

## Austria

Figure 1. Energy production

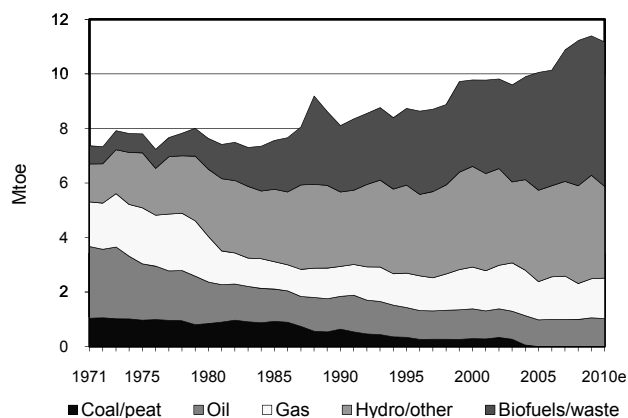


Figure 2. Total primary energy supply\*

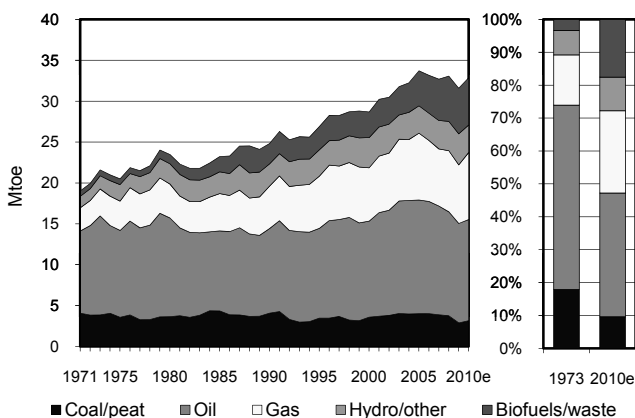


Figure 3. Energy self-sufficiency

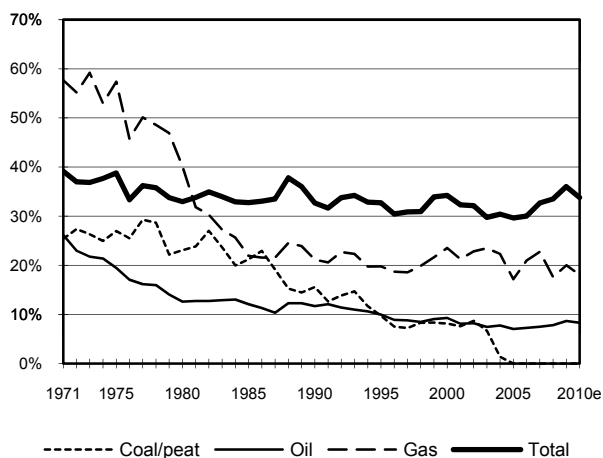


Figure 4. Breakdown of sectorial final consumption by source in 1973 and 2009\*\*

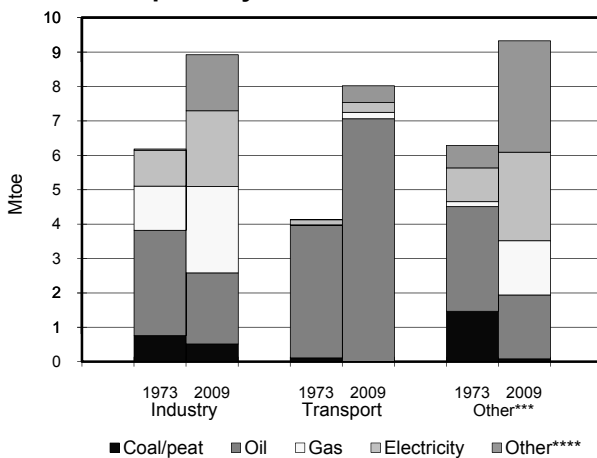


Figure 5. Electricity generation by fuel

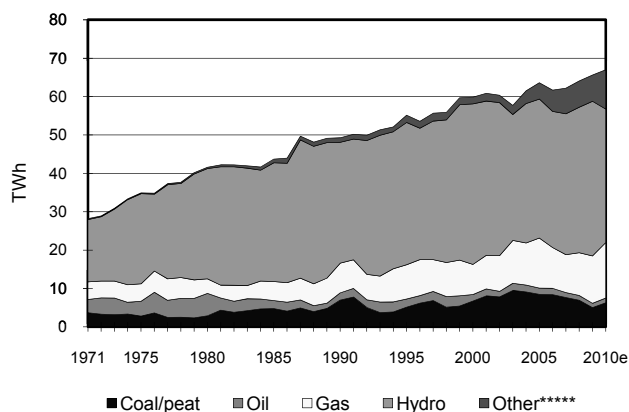
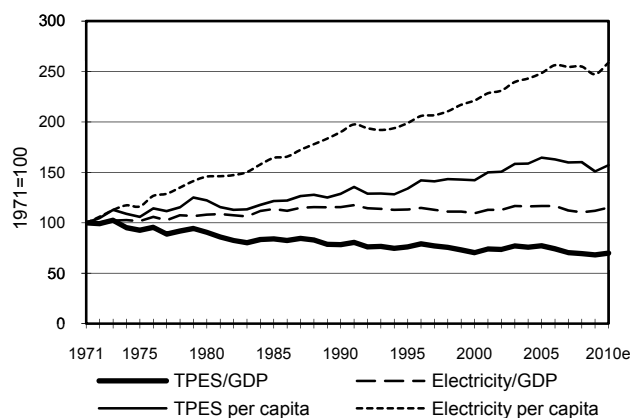


Figure 6. Selected indicators



\* Excluding electricity trade.

\*\* Includes non-energy use.

\*\*\* Includes residential, commercial and public services, agriculture/forestry, fishing and non-specified.

\*\*\*\* Includes biofuels and waste, direct use of geothermal/solar thermal and heat produced in CHP/heat plants.

\*\*\*\*\* Includes geothermal, solar, wind, biofuels and waste, etc.

## Belgium : 2008

Million tonnes of oil equivalent											
SUPPLY AND CONSUMPTION	Coal & peat	Crude oil*	Oil products	Natural gas	Nuclear	Hydro	Geotherm. solar etc.	Biofuels & waste	Electricity	Heat	Total
Production	-	0.51	-	-	11.88	0.04	0.07	1.99	-	0.06	14.54
Imports	5.45	37.53	22.79	15.49	-	-	-	0.55	1.48	-	83.29
Exports	-0.82	-3.94	-20.81	-0.59	-	-	-	-0.17	-0.56	-	-26.90
Intl. marine bunkers	-	-	-9.52	-	-	-	-	-	-	-	-9.52
Intl. aviation bunkers	-	-	-2.04	-	-	-	-	-	-	-	-2.04
Stock changes	-0.29	-0.04	-0.39	-0.06	-	-	-	-	-	-	-0.78
<b>TPES</b>	<b>4.35</b>	<b>34.05</b>	<b>-9.97</b>	<b>14.83</b>	<b>11.88</b>	<b>0.04</b>	<b>0.07</b>	<b>2.37</b>	<b>0.91</b>	<b>0.06</b>	<b>58.58</b>
Transfers	-	4.94	-4.65	-	-	-	-	-	-	-	0.29
Statistical differences	0.11	0.05	0.27	0.13	-	-	-	0.00	-0.01	-	0.55
Electricity plants	-1.53	-	-0.06	-2.36	-11.88	-0.04	-0.06	-1.16	6.18	-0.06	-10.96
CHP plants	-0.34	-	-0.02	-1.87	-	-	-	-0.23	1.01	0.68	-0.77
Heat plants	-	-	-	-0.00	-	-	-0.00	-	-	0.00	-0.00
Blast furnaces	-1.16 e	-	-	-	-	-	-	-	-	-	-1.16
Gas works	-	-	-	-	-	-	-	-	-	-	-
Coke/pat. fuel/BKB plants	-0.08	-	-	-	-	-	-	-	-	-	-0.08
Oil refineries	-	-39.04	37.91	-	-	-	-	-	-	-	-1.13
Petrochemical plants	-	-	-	-	-	-	-	-	-	-	-
Liquefaction plants	-	-	-	-	-	-	-	-	-	-	-
Other transformation	-	-	-	-	-	-	-	-	-	-	-
Energy industry own use	-0.14	-	-1.56	-0.07	-	-	-	-	-0.61	-0.19	-2.57
Losses	-	-	-	-	-	-	-0.00	-	-0.37	-0.02	-0.39
<b>TFC</b>	<b>1.21</b>	<b>-</b>	<b>21.92</b>	<b>10.66</b>	<b>-</b>	<b>-</b>	<b>0.01</b>	<b>0.97</b>	<b>7.11</b>	<b>0.47</b>	<b>42.36</b>
<b>INDUSTRY</b>	<b>1.03</b>	<b>-</b>	<b>0.71</b>	<b>4.61</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.62</b>	<b>3.36</b>	<b>0.37</b>	<b>10.71</b>
Iron and steel	0.79 e	-	0.01	0.63	-	-	-	-	0.55	-	1.98
Chemical and petrochem.	-	-	0.06	2.04	-	-	-	0.01	1.05	0.28	3.45
Non-ferrous metals	0.01	-	0.01	0.09	-	-	-	-	0.19	-	0.30
Non-metallic minerals	0.16	-	0.27	0.50	-	-	-	0.22	0.21	-	1.38
Transport equipment	-	-	-	0.10	-	-	-	-	0.09	-	0.20
Machinery	-	-	0.02	0.09	-	-	-	0.00	0.19	-	0.29
Mining and quarrying	-	-	0.00	0.01	-	-	-	-	0.07	-	0.08
Food and tobacco	0.03	-	0.04	0.46	-	-	-	0.01	0.38	0.03	0.95
Paper, pulp and printing	0.03	-	0.02	0.13	-	-	-	0.28	0.23	0.04	0.73
Wood and wood products	-	-	-	0.01	-	-	-	0.10	0.12	-	0.23
Construction	-	-	0.05	0.14	-	-	-	-	0.07	-	0.26
Textile and leather	0.00	-	0.00	0.12	-	-	-	-	0.13	-	0.26
Non-specified	0.01	-	0.22	0.29	-	-	-	-	0.07	0.01	0.60
<b>TRANSPORT</b>	<b>-</b>	<b>-</b>	<b>8.92</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.10</b>	<b>0.15</b>	<b>-</b>	<b>9.17</b>
Domestic aviation	-	-	0.00	-	-	-	-	-	-	-	0.00
Road	-	-	8.76	-	-	-	-	0.10	-	-	8.86
Rail	-	-	0.04	-	-	-	-	-	0.14	-	0.18
Pipeline transport	-	-	-	-	-	-	-	-	0.00	-	0.00
Domestic navigation	-	-	0.12	-	-	-	-	-	-	-	0.12
Non-specified	-	-	-	-	-	-	-	-	-	-	-
<b>OTHER</b>	<b>0.15</b>	<b>-</b>	<b>5.06</b>	<b>5.16</b>	<b>-</b>	<b>-</b>	<b>0.01</b>	<b>0.25</b>	<b>3.61</b>	<b>0.10</b>	<b>14.34</b>
Residential	0.15	-	3.36	3.30	-	-	0.01	0.22	1.72	0.01	8.78
Comm. and public services	-	-	1.16	1.70	-	-	0.00	0.01	1.79	0.07	4.72
Agriculture/forestry	-	-	0.53	0.17	-	-	-	0.02	0.09	0.02	0.83
Fishing	-	-	-	-	-	-	-	-	-	-	-
Non-specified	0.00	-	-	-	-	-	-	-	0.00	-	0.01
<b>NON-ENERGY USE</b>	<b>0.02</b>	<b>-</b>	<b>7.23</b>	<b>0.89</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>8.14</b>
in industry/transf./energy	0.02	-	7.17	0.89	-	-	-	-	-	-	8.08
of which: feedstocks	0.02	-	6.32	0.89	-	-	-	-	-	-	7.23
in transport	-	-	0.02	-	-	-	-	-	-	-	0.02
in other	-	-	0.05	-	-	-	-	-	-	-	0.05
<b>Electricity and Heat Output</b>											
<b>Elec. generated - TWh</b>	<b>7.24</b>	<b>-</b>	<b>0.41</b>	<b>24.65</b>	<b>45.57</b>	<b>0.41</b>	<b>0.68</b>	<b>4.39</b>	<b>-</b>	<b>0.24</b>	<b>83.58</b>
Electricity plants	6.66	-	0.30	14.61	45.57	0.41	0.68	3.37	-	0.13	71.73
CHP plants	0.58	-	0.11	10.04	-	-	-	1.02	-	0.11	11.85
<b>Heat generated - PJ</b>	<b>-</b>	<b>-</b>	<b>0.00</b>	<b>27.56</b>	<b>-</b>	<b>-</b>	<b>0.07</b>	<b>1.01</b>	<b>-</b>	<b>2.66</b>	<b>31.30</b>
CHP plants	-	-	0.00	27.51	-	-	-	1.01	-	2.66	31.18
Heat plants	-	-	-	0.05	-	-	0.07	-	-	-	0.12

\* Includes crude oil, NGL, refinery feedstocks, additives and other hydrocarbons.

## Belgium : 2009

Million tonnes of oil equivalent											
<b>SUPPLY AND CONSUMPTION</b>	Coal & peat	Crude oil*	Oil products	Natural gas	Nuclear	Hydro	Geotherm. solar etc.	Biofuels & waste	Electricity	Heat	Total
Production	-	0.62	-	-	12.31	0.03	0.12	2.23	-	0.02	15.32
Imports	3.25	34.18	20.31	17.99	-	-	-	0.60	0.82	-	77.13
Exports	-0.81	-4.41	-18.31	-3.03	-	-	-	-0.01	-0.97	-	-27.55
Intl. marine bunkers	-	-	-6.99	-	-	-	-	-	-	-	-6.99
Intl. aviation bunkers	-	-	-1.93	-	-	-	-	-	-	-	-1.93
Stock changes	0.54	0.09	0.46	0.15	-	-	-	-0.01	-	-	1.23
<b>TPES</b>	<b>2.98</b>	<b>30.47</b>	<b>-6.46</b>	<b>15.11</b>	<b>12.31</b>	<b>0.03</b>	<b>0.12</b>	<b>2.81</b>	<b>-0.16</b>	<b>0.02</b>	<b>57.22</b>
Transfers	-	5.12	-4.84	-	-	-	-	-	-	-	0.28
Statistical differences	-0.01	0.17	-0.60	-0.00	-	-	0.00	-0.04	-0.01	-	-0.50
Electricity plants	-1.37	-	-0.04	-3.20	-12.31	-0.03	-0.10	-1.06	6.59	-0.02	-11.52
CHP plants	-0.08	-	-0.02	-1.78	-	-	-	-0.50	1.13	0.74	-0.51
Heat plants	-	-	-	-0.00	-	-	-0.00	-	-	0.00	-0.00
Blast furnaces	-0.51 e	-	-	-	-	-	-	-	-	-	-0.51
Gas works	-	-	-	-	-	-	-	-	-	-	-
Coke/pat. fuel/BKB plants	-0.17	-	-	-	-	-	-	-	-	-	-0.17
Oil refineries	-	-35.76	33.40	-	-	-	-	-	-	-	-2.36
Petrochemical plants	-	-	-	-	-	-	-	-	-	-	-
Liquefaction plants	-	-	-	-	-	-	-	-	-	-	-
Other transformation	-	-	-	-	-	-	-	-	-	-	-
Energy industry own use	-0.09	-	-1.51	-0.01	-	-	-	-	-0.56	-0.16	-2.35
Losses	-	-	-	-	-	-	-0.00	-	-0.35	-0.01	-0.36
<b>TFC</b>	<b>0.75</b>	<b>-</b>	<b>19.93</b>	<b>10.11</b>	<b>-</b>	<b>-</b>	<b>0.01</b>	<b>1.21</b>	<b>6.64</b>	<b>0.57</b>	<b>39.22</b>
<b>INDUSTRY</b>	<b>0.50</b>	<b>-</b>	<b>0.65</b>	<b>3.99</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.65</b>	<b>2.81</b>	<b>0.47</b>	<b>9.08</b>
Iron and steel	0.24 e	-	0.01	0.45	-	-	-	-	0.45	-	1.15
Chemical and petrochem.	0.00	-	0.01	1.97	-	-	-	0.02	0.75	0.37	3.12
Non-ferrous metals	0.02	-	-	0.10	-	-	-	-	0.11	-	0.23
Non-metallic minerals	0.15	-	0.27	0.29	-	-	-	0.21	0.17	-	1.08
Transport equipment	-	-	0.00	0.09	-	-	-	-	0.09	-	0.18
Machinery	0.00	-	0.02	0.07	-	-	-	0.00	0.15	-	0.24
Mining and quarrying	-	-	-	0.01	-	-	-	-	0.05	-	0.06
Food and tobacco	0.05	-	0.05	0.53	-	-	-	0.02	0.40	0.03	1.08
Paper, pulp and printing	0.03	-	0.01	0.15	-	-	-	0.31	0.20	0.05	0.75
Wood and wood products	-	-	-	0.01	-	-	-	0.10	0.07	-	0.18
Construction	-	-	0.06	0.20	-	-	-	-	0.11	-	0.37
Textile and leather	0.00	-	0.00	0.10	-	-	-	-	0.11	0.00	0.21
Non-specified	0.01	-	0.22	0.04	-	-	-	-	0.15	0.01	0.43
<b>TRANSPORT</b>	<b>-</b>	<b>-</b>	<b>8.71</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.29</b>	<b>0.15</b>	<b>-</b>	<b>9.14</b>
Domestic aviation	-	-	0.00	-	-	-	-	-	-	-	0.00
Road	-	-	8.50	-	-	-	-	0.29	-	-	8.78
Rail	-	-	0.03	-	-	-	-	-	0.14	-	0.18
Pipeline transport	-	-	-	-	-	-	-	-	0.01	-	0.01
Domestic navigation	-	-	0.17	-	-	-	-	-	-	-	0.17
Non-specified	-	-	-	-	-	-	-	-	-	-	-
<b>OTHER</b>	<b>0.24</b>	<b>-</b>	<b>4.18</b>	<b>5.27</b>	<b>-</b>	<b>-</b>	<b>0.01</b>	<b>0.27</b>	<b>3.68</b>	<b>0.11</b>	<b>13.75</b>
Residential	0.23	-	2.75	3.31	-	-	0.01	0.23	1.74	0.01	8.28
Comm. and public services	-	-	0.95	1.72	-	-	0.00	0.01	1.85	0.07	4.60
Agriculture/forestry	-	-	0.43	0.23	-	-	0.00	0.03	0.09	0.02	0.81
Fishing	-	-	-	-	-	-	-	-	0.00	-	0.00
Non-specified	0.01	-	0.05	-	-	-	-	-	0.01	-	0.06
<b>NON-ENERGY USE</b>	<b>0.01</b>	<b>-</b>	<b>6.39</b>	<b>0.85</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>7.25</b>
in industry/transf./energy	0.01	-	6.33	0.85	-	-	-	-	-	-	7.19
<i>of which: feedstocks</i>	<i>0.01</i>	-	<i>5.50</i>	<i>0.85</i>	-	-	-	-	-	-	<i>6.36</i>
in transport	-	-	0.01	-	-	-	-	-	-	-	0.01
in other	-	-	0.05	-	-	-	-	-	-	-	0.05
<b>Electricity and Heat Output</b>											
<b>Elec. generated - TWh</b>	<b>6.15</b>	<b>-</b>	<b>0.28</b>	<b>29.31</b>	<b>47.22</b>	<b>0.33</b>	<b>1.16</b>	<b>5.26</b>	<b>-</b>	<b>0.08</b>	<b>89.80</b>
Electricity plants	5.95	-	0.16	18.24	47.22	0.33	1.16	3.49	-	0.06	76.61
CHP plants	0.20	-	0.12	11.07	-	-	-	1.77	-	0.03	13.19
<b>Heat generated - PJ</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>27.61</b>	<b>-</b>	<b>-</b>	<b>0.09</b>	<b>3.40</b>	<b>-</b>	<b>0.89</b>	<b>31.98</b>
CHP plants	-	-	-	27.54	-	-	-	3.40	-	0.89	31.83
Heat plants	-	-	-	0.07	-	-	0.09	-	-	-	0.16

\* Includes crude oil, NGL, refinery feedstocks, additives and other hydrocarbons.

## Belgium

## Estimated energy supply balance for 2010

Million tonnes of oil equivalent											
SUPPLY	Coal & peat	Crude oil*	Oil products	Natural gas	Nuclear	Hydro	Geotherm. solar etc.	Biofuels & waste	Electricity	Heat	Total
Production	-	0.35	-	-	12.49	0.03	0.19	2.23	-	0.06	15.35
Imports	1.80	35.53	17.13	17.76	-	-	-	0.60	1.07	-	73.89
Exports	-0.38	-4.69	-18.13	-0.44	-	-	-	-0.01	-1.02	-	-24.66
Intl. marine bunkers	-	-	-6.34	-	-	-	-	-	-	-	-6.34
Intl. aviation bunkers	-	-	-1.86	-	-	-	-	-	-	-	-1.86
Stock changes	0.48	-0.02	-0.20	0.17	-	-	-	-0.00	-	-	0.42
<b>TPES</b>	<b>1.91</b>	<b>31.16</b>	<b>-9.40</b>	<b>17.49</b>	<b>12.49</b>	<b>0.03</b>	<b>0.19</b>	<b>2.82</b>	<b>0.05</b>	<b>0.06</b>	<b>56.80</b>
Electricity and Heat Output											
Elec. generated - TWh	7.75	-	0.33	31.11	47.94	0.32	2.03	5.36	-	0.26	95.08
Heat generated - PJ	-	-	-	29.30	-	-	0.09	3.51	-	2.55	35.45

\* Includes crude oil, NGL, refinery feedstocks, additives and other hydrocarbons.

## Key indicators

	1960	1971	1980	1990	2000	2008	2009	2010e
Energy production (Mtoe)	14.0	6.8	8.1	13.1	13.7	14.5	15.3	15.4
Net imports (Mtoe)	8.2	37.0	42.3	40.1	51.1	56.4	49.6	49.2
Total primary energy supply (Mtoe)	23.1	39.7	46.8	48.3	58.5	58.6	57.2	56.8
Net oil imports (Mtoe)	7.7	28.8	26.4	22.6	30.1	35.6	31.8	29.8
Oil supply (Mtoe)	7.0	24.8	23.3	18.0	23.3	24.1	24.0	21.8
Electricity consumption (TWh)*	14.4	31.1	48.3	63.6	84.6	91.3	85.3	92.9
GDP (billion 2000 USD)	68.8 e	113.9	152.9	186.5	232.4	268.2	260.8	266.4
GDP PPP (billion 2000 USD)	83.8 e	138.7	186.2	227.2	283.0	326.7	317.7	324.5
Population (millions)	9.13 e	9.66	9.86	9.97	10.25	10.71	10.79	10.86
Industrial production index (2005=100)	33.40	55.40	67.90	82.70	96.30	107.30	92.90	..
Total self-sufficiency**	0.6070	0.1726	0.1730	0.2714	0.2347	0.2483	0.2677	0.2703
Coal and peat self-sufficiency**	0.8737	0.6692	0.4131	0.1117	0.0261	-	-	-
Oil self-sufficiency**	..	..	-	-	-	0.0211	0.0257	0.0162
Natural gas self-sufficiency**	1.0000	0.0080	0.0037	0.0012	0.0002	-	-	-
TPES/GDP (toe per thousand 2000 USD)	0.3354 e	0.3484	0.3060	0.2589	0.2518	0.2184	0.2194	0.2132
TPES/GDP PPP (toe per thousand 2000 USD)	0.2753 e	0.2860	0.2512	0.2125	0.2067	0.1793	0.1801	0.1751
TPES/population (toe per capita)	2.5270 e	4.1055	4.7437	4.8439	5.7104	5.4706	5.3029	5.2320
Net oil imports/GDP (toe per thousand 2000 USD)	0.1126 e	0.2530	0.1728	0.1212	0.1296	0.1326	0.1218	0.1120
Oil supply/GDP (toe per thousand 2000 USD)	0.1025 e	0.2180	0.1527	0.0963	0.1001	0.0898	0.0921	0.0817
Oil supply/population (toe per capita)	0.7720 e	2.5698	2.3673	1.8013	2.2705	2.2486	2.2253	2.0047
Elect. cons./GDP (kWh per 2000 USD)	0.2099 e	0.2733	0.3157	0.3410	0.3639	0.3403	0.3271	0.3489
Elect. cons./population (kWh per capita)	1581 e	3221	4894	6380	8252	8523	7908	8561
Industry cons.***/industrial production (2005=100)	121.58	143.52	112.68	91.15	113.16	97.79	97.83	..
Industry oil cons.***/industrial production (2005=100)	96.45	175.59	85.88	66.21	103.04	96.30	98.61	..

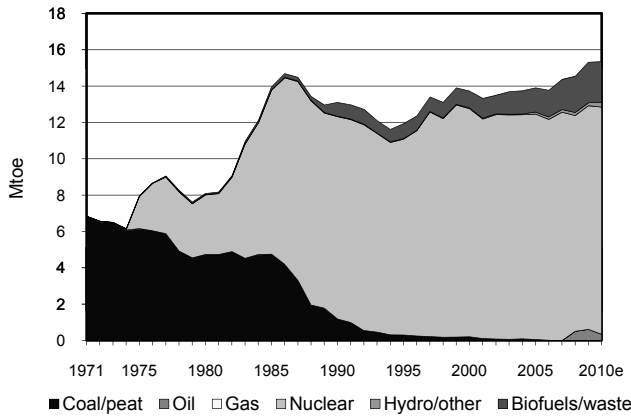
\* Electricity consumption equals domestic supply less losses.

\*\* Production divided by TPES.

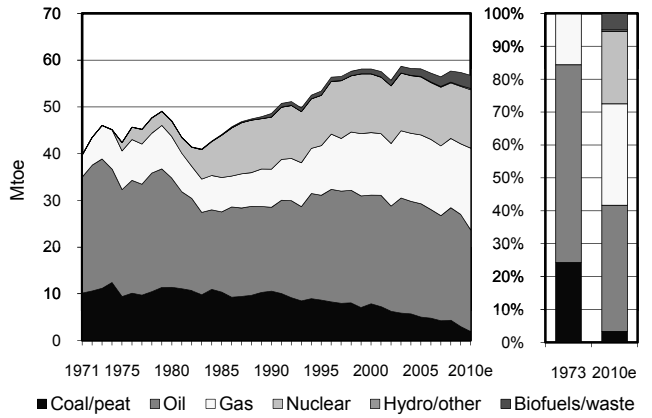
\*\*\* Includes non-energy use.

## Belgium

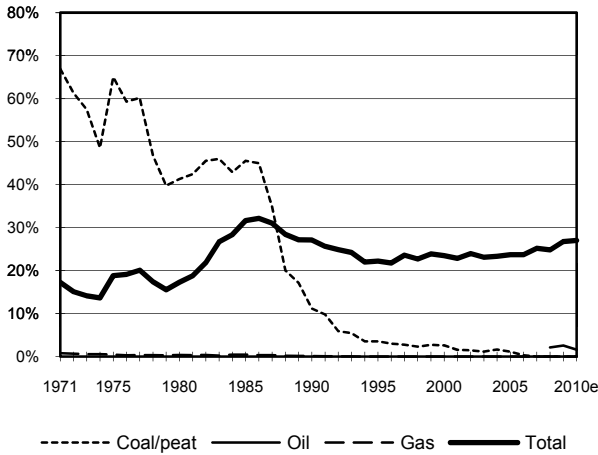
**Figure 1. Energy production**



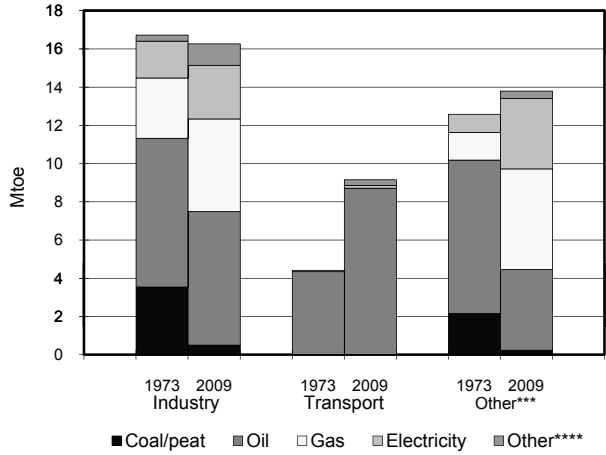
**Figure 2. Total primary energy supply\***



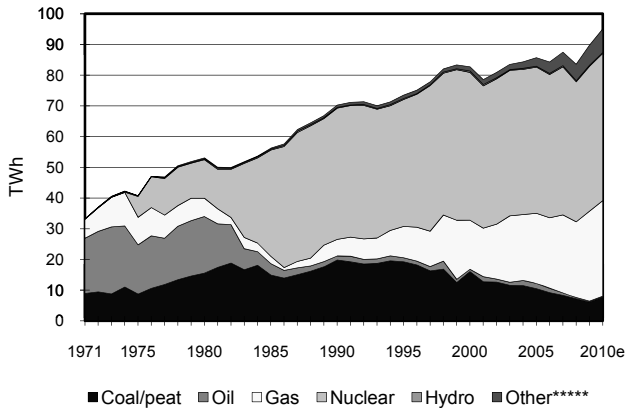
**Figure 3. Energy self-sufficiency**



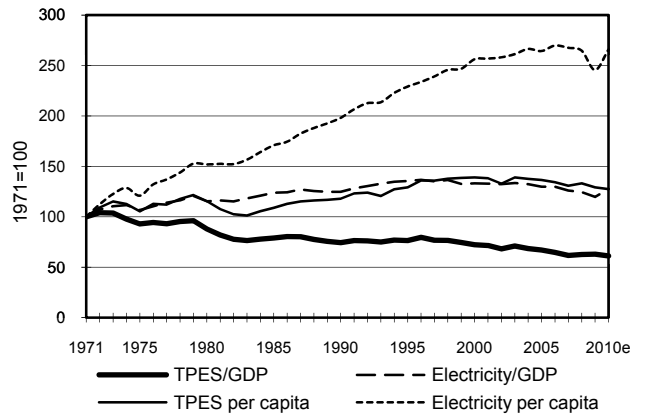
**Figure 4. Breakdown of sectorial final consumption by source in 1973 and 2010\*\***



**Figure 5. Electricity generation by fuel**



**Figure 6. Selected indicators**



\* Excluding electricity trade.

\*\* Includes non-energy use.

\*\*\* Includes residential, commercial and public services, agriculture/forestry, fishing and non-specified.

\*\*\*\* Includes biofuels and waste, direct use of geothermal/solar thermal and heat produced in CHP/heat plants.

\*\*\*\*\* Includes geothermal, solar, wind, biofuels and waste, etc.

## Canada : 2008

Million tonnes of oil equivalent											
SUPPLY AND CONSUMPTION	Coal & peat	Crude oil*	Oil products	Natural gas	Nuclear	Hydro	Geotherm. solar etc.	Biofuels & waste	Electricity	Heat	Total
Production	34.37	157.73	-	144.98	24.48	32.19	0.32	11.99 e	-	-	406.07
Imports	12.33	42.56	15.82	12.83	-	-	-	0.39	2.05	-	85.99
Exports	-19.33	-99.19	-21.86	-84.69	-	-	-	-0.37	-4.76	-	-230.20
Intl. marine bunkers	-	-	-0.52	-	-	-	-	-	-	-	-0.52
Intl. aviation bunkers	-	-	-0.54	-	-	-	-	-	-	-	-0.54
Stock changes	0.43	0.35	-0.17	5.14	-	-	-	-	-	-	5.76
<b>TPES</b>	<b>27.80</b>	<b>101.46</b>	<b>-7.28</b>	<b>78.26</b>	<b>24.48</b>	<b>32.19</b>	<b>0.32</b>	<b>12.00</b>	<b>-2.71</b>	<b>-</b>	<b>266.54</b>
Transfers	-	-2.94	6.43	-	-	-	-	-	-	-	3.49
Statistical differences	-0.40	-0.93	0.85	2.08	-	-	-	-0.00	-	-0.05	1.56
Electricity plants	-22.95	-	-2.54	-6.88	-24.48	-32.19	-0.32	-1.60 e	54.54 e	-	-36.43
CHP plants	-	-	-0.05	-2.50	-	-	-	-0.04 e	0.58 e	0.78 e	-1.23
Heat plants	-	-	-	-	-	-	-	-0.06	-	0.03 e	-0.03
Blast furnaces	-0.76 e	-	-	-	-	-	-	-	-	-	-0.76
Gas works	-	-	-	-	-	-	-	-	-	-	-
Coke/pat. fuel/BKB plants	-0.41	-	-	-	-	-	-	-	-	-	-0.41
Oil refineries	-	-98.17	101.89	-0.57	-	-	-	-	-	-	3.14
Petrochemical plants	-	-	-	-	-	-	-	-	-	-	-
Liquefaction plants	-	0.57	-	-1.71	-	-	-	-	-	-	-1.14
Other transformation	-	-	-	-	-	-	-	-	-	-	-
Energy industry own use	-0.07	-	-9.33	-15.46	-	-	-	-0.00 e	-4.14	-	-29.00
Losses	-	-	-	-	-	-	-	-	-5.29	-0.00	-5.29
<b>TFC</b>	<b>3.21</b>	<b>-</b>	<b>89.97</b>	<b>53.22</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>10.31</b>	<b>42.98</b>	<b>0.76</b>	<b>200.46</b>
<b>INDUSTRY</b>	<b>2.89</b>	<b>-</b>	<b>5.83</b>	<b>21.01</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>7.60</b>	<b>15.16</b>	<b>0.67</b>	<b>53.15</b>
Iron and steel	1.42 e	-	-	1.27	-	-	-	0.00 e	0.75	-	3.45
Chemical and petrochem.	-	-	-	2.61	-	-	-	-	1.26	0.20	4.07
Non-ferrous metals	-	-	0.00	0.57	-	-	-	-	4.55	-	5.13
Non-metallic minerals	-	-	0.04	0.05	-	-	-	0.10 e	0.17	-	0.36
Transport equipment	-	-	-	-	-	-	-	-	-	-	-
Machinery	-	-	-	-	-	-	-	-	-	-	-
Mining and quarrying	0.36	-	2.41	8.39	-	-	-	-	2.76	-	13.92
Food and tobacco	-	-	-	-	-	-	-	-	-	-	-
Paper, pulp and printing	-	-	0.48	1.19	-	-	-	7.49	3.90	0.33	13.38
Wood and wood products	-	-	0.41	-	-	-	-	-	-	-	0.41
Construction	-	-	0.95	0.40	-	-	-	-	-	-	1.35
Textile and leather	-	-	-	-	-	-	-	-	-	-	-
Non-specified	1.12	-	1.53	6.53	-	-	-	-	1.76	0.14	11.08
<b>TRANSPORT</b>	<b>-</b>	<b>-</b>	<b>52.53</b>	<b>3.20</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.70</b>	<b>0.33</b>	<b>-</b>	<b>56.76</b>
Domestic aviation	-	-	5.38	-	-	-	-	-	-	-	5.38
Road	-	-	43.36	0.04	-	-	-	0.70	-	-	44.10
Rail	-	-	2.06	-	-	-	-	-	-	-	2.06
Pipeline transport	-	-	0.02	3.16	-	-	-	-	0.28	-	3.45
Domestic navigation	-	-	1.71	-	-	-	-	-	-	-	1.71
Non-specified	-	-	-	-	-	-	-	-	0.06	-	0.06
<b>OTHER</b>	<b>0.03</b>	<b>-</b>	<b>12.87</b>	<b>25.89</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>2.01</b>	<b>27.49</b>	<b>0.09</b>	<b>68.40</b>
Residential	0.03	-	2.07	14.81	-	-	-	2.01	13.72	-	32.63
Comm. and public services	-	-	8.28	10.60	-	-	-	0.00 e	12.96	0.09	31.94
Agriculture/forestry	-	-	2.52	0.49	-	-	-	0.00 e	0.82	0.00 e	3.83
Fishing	-	-	-	-	-	-	-	-	-	-	-
Non-specified	-	-	-	-	-	-	-	-	-	-	-
<b>NON-ENERGY USE</b>	<b>0.29</b>	<b>-</b>	<b>18.74</b>	<b>3.11</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>22.15</b>
in industry/transf./energy	0.29	-	15.65	3.11	-	-	-	-	-	-	19.06
of which: feedstocks	-	-	11.12	3.11	-	-	-	-	-	-	14.23
in transport	-	-	0.13	-	-	-	-	-	-	-	0.13
in other	-	-	2.96	-	-	-	-	-	-	-	2.96
<b>Electricity and Heat Output</b>											
<b>Elec. generated - TWh</b>	<b>112.02</b>	<b>-</b>	<b>8.85</b>	<b>40.91</b>	<b>93.95</b>	<b>374.30</b>	<b>3.77</b>	<b>7.14</b>	<b>-</b>	<b>-</b>	<b>640.94</b>
Electricity plants	112.02	-	8.84	34.32	93.95	374.30	3.77	6.98 e	-	-	634.18
CHP plants	-	-	0.01	6.59	-	-	-	0.16 e	-	-	6.76
<b>Heat generated - PJ</b>	<b>-</b>	<b>-</b>	<b>1.01</b>	<b>30.83</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1.97</b>	<b>-</b>	<b>-</b>	<b>33.82</b>
CHP plants	-	-	1.01	30.83	-	-	-	0.71 e	-	-	32.55
Heat plants	-	-	-	-	-	-	-	1.27	-	-	1.27

\* Includes crude oil, NGL, refinery feedstocks, additives and other hydrocarbons.

## Canada : 2009

Million tonnes of oil equivalent											
<b>SUPPLY AND CONSUMPTION</b>	Coal & peat	Crude oil*	Oil products	Natural gas	Nuclear	Hydro	Geotherm. solar etc.	Biofuels & waste	Electricity	Heat	Total
Production	31.46	156.30	-	135.25	23.56	31.29	0.40	11.54 e	-	-	389.81
Imports	8.23	40.80	12.02	17.06	-	-	-	0.27	1.56	-	79.95
Exports	-16.97	-100.10	-20.80	-78.66	-	-	-	-0.43	-4.45	-	-221.41
Intl. marine bunkers	-	-	-0.47	-	-	-	-	-	-	-	-0.47
Intl. aviation bunkers	-	-	-0.68	-	-	-	-	-	-	-	-0.68
Stock changes	1.10	0.19	0.63	5.00	-	-	-	-	-	-	6.93
<b>TPES</b>	<b>23.82</b>	<b>97.18</b>	<b>-9.30</b>	<b>78.66</b>	<b>23.56</b>	<b>31.29</b>	<b>0.40</b>	<b>11.38</b>	<b>-2.89</b>	<b>-</b>	<b>254.12</b>
Transfers	-	-2.32	5.83	-	-	-	-	-	-	-	3.51
Statistical differences	-1.62	-0.21	2.18	1.43	-	-	-	-0.00	-	-0.05	1.74
Electricity plants	-18.61	-	-2.46	-5.49	-23.56	-31.29	-0.40	-1.50 e	51.26 e	-	-32.05
CHP plants	-	-	-0.04	-2.78	-	-	-	-0.04 e	0.60 e	0.68 e	-1.58
Heat plants	-	-	-	-	-	-	-	-0.06	-	0.03 e	-0.03
Blast furnaces	-0.67 e	-	-	-	-	-	-	-	-	-	-0.67
Gas works	-	-	-	-	-	-	-	-	-	-	-
Coke/pat. fuel/BKB plants	-0.20	-	-	-	-	-	-	-	-	-	-0.20
Oil refineries	-	-95.24	98.89	-0.59	-	-	-	-	-	-	3.06
Petrochemical plants	-	-	-	-	-	-	-	-	-	-	-
Liquefaction plants	-	0.59	-	-1.96	-	-	-	-	-	-	-1.37
Other transformation	-	-	-	-	-	-	-	-	-	-	-
Energy industry own use	-0.05	-	-9.79	-14.58	-	-	-	-0.00 e	-3.81	-	-28.24
Losses	-	-	-	-	-	-	-	-	-4.11	-0.00	-4.11
<b>TFC</b>	<b>2.67</b>	<b>-</b>	<b>85.32</b>	<b>54.70</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>9.77</b>	<b>41.06</b>	<b>0.66</b>	<b>194.17</b>
<b>INDUSTRY</b>	<b>2.42</b>	<b>-</b>	<b>4.36</b>	<b>23.98</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>6.97</b>	<b>13.72</b>	<b>0.62</b>	<b>52.07</b>
Iron and steel	1.27 e	-	-	1.18	-	-	-	0.00 e	0.56	-	3.00
Chemical and petrochem.	-	-	-	2.78	-	-	-	-	1.05	0.18	4.01
Non-ferrous metals	-	-	0.01	0.54	-	-	-	-	4.41	-	4.96
Non-metallic minerals	-	-	0.03	0.03	-	-	-	0.11 e	0.12	-	0.30
Transport equipment	-	-	-	-	-	-	-	-	-	-	-
Machinery	-	-	-	-	-	-	-	-	-	-	-
Mining and quarrying	0.27	-	2.20	10.59	-	-	-	-	2.42	-	15.49
Food and tobacco	-	-	-	-	-	-	-	-	-	-	-
Paper, pulp and printing	-	-	0.35	1.17	-	-	-	6.86	3.20	0.26	11.83
Wood and wood products	-	-	0.29	-	-	-	-	-	-	-	0.29
Construction	-	-	0.79	0.31	-	-	-	-	-	-	1.10
Textile and leather	-	-	-	-	-	-	-	-	-	-	-
Non-specified	0.88	-	0.70	7.39	-	-	-	-	1.95	0.17	11.09
<b>TRANSPORT</b>	<b>-</b>	<b>-</b>	<b>51.40</b>	<b>2.72</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.79</b>	<b>0.31</b>	<b>-</b>	<b>55.23</b>
Domestic aviation	-	-	4.44	-	-	-	-	-	-	-	4.44
Road	-	-	43.47	0.04	-	-	-	0.79	-	-	44.30
Rail	-	-	1.99	-	-	-	-	-	-	-	1.99
Pipeline transport	-	-	0.02	2.68	-	-	-	-	0.25	-	2.96
Domestic navigation	-	-	1.48	-	-	-	-	-	-	-	1.48
Non-specified	-	-	-	-	-	-	-	-	0.06	-	0.06
<b>OTHER</b>	<b>0.03</b>	<b>-</b>	<b>11.92</b>	<b>25.64</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>2.01</b>	<b>27.03</b>	<b>0.05</b>	<b>66.67</b>
Residential	0.03	-	1.75	14.19	-	-	-	2.00	13.78	-	31.76
Comm. and public services	-	-	8.15	10.93	-	-	-	0.00 e	12.41	0.04	31.54
Agriculture/forestry	-	-	2.02	0.51	-	-	-	0.00 e	0.83	0.00 e	3.37
Fishing	-	-	-	-	-	-	-	-	-	-	-
Non-specified	-	-	-	-	-	-	-	-	-	-	-
<b>NON-ENERGY USE</b>	<b>0.22</b>	<b>-</b>	<b>17.63</b>	<b>2.35</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>20.20</b>
in industry/transf./energy	0.22	-	14.51	2.35	-	-	-	-	-	-	17.08
of which: feedstocks	-	-	10.14	2.35	-	-	-	-	-	-	12.49
in transport	-	-	0.13	-	-	-	-	-	-	-	0.13
in other	-	-	2.99	-	-	-	-	-	-	-	2.99
<b>Electricity and Heat Output</b>											
<b>Elec. generated - TWh</b>	<b>91.64</b>	<b>-</b>	<b>8.30</b>	<b>37.50</b>	<b>90.42</b>	<b>363.85</b>	<b>4.71</b>	<b>6.71</b>	<b>-</b>	<b>-</b>	<b>603.12</b>
Electricity plants	91.64	-	8.29	30.64	90.42	363.85	4.71	6.55 e	-	-	596.09
CHP plants	-	-	0.01	6.86	-	-	-	0.16 e	-	-	7.03
<b>Heat generated - PJ</b>	<b>-</b>	<b>-</b>	<b>0.81</b>	<b>26.90</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>2.16</b>	<b>-</b>	<b>-</b>	<b>29.87</b>
CHP plants	-	-	0.81	26.90	-	-	-	0.75 e	-	-	28.46
Heat plants	-	-	-	-	-	-	-	1.41	-	-	1.41

\* Includes crude oil, NGL, refinery feedstocks, additives and other hydrocarbons.



## Canada

## Estimated energy supply balance for 2010

Million tonnes of oil equivalent											
SUPPLY	Coal & peat	Crude oil*	Oil products	Natural gas	Nuclear	Hydro	Geotherm. solar etc.	Biofuels & waste	Electricity	Heat	Total
Production	34.52	163.07	-	132.16	23.54	30.23	0.51	11.75	-	-	395.77
Imports	8.21	39.57	11.62	18.68	-	-	-	0.38	1.60	-	80.05
Exports	-19.75	-100.95	-20.10	-77.87	-	-	-	-0.55	-3.85	-	-223.07
Intl. marine bunkers	-	-	-0.52	-	-	-	-	-	-	-	-0.52
Intl. aviation bunkers	-	-	-0.70	-	-	-	-	-	-	-	-0.70
Stock changes	-0.11	-0.40	0.17	4.13	-	-	-	-	-	-	3.80
<b>TPES</b>	<b>22.87</b>	<b>101.29</b>	<b>-9.53</b>	<b>77.09</b>	<b>23.54</b>	<b>30.23</b>	<b>0.51</b>	<b>11.58</b>	<b>-2.25</b>	<b>-</b>	<b>255.32</b>
Electricity and Heat Output											
Elec. generated - TWh	94.58	-	8.81	39.82	90.33	351.50	5.96	6.99	-	-	597.99
Heat generated - PJ	-	-	0.84	28.57	-	-	-	2.25	-	-	31.66

\* Includes crude oil, NGL, refinery feedstocks, additives and other hydrocarbons.

## Key indicators

	1960	1971	1980	1990	2000	2008	2009	2010e
Energy production (Mtoe)	57.1	155.8	207.4	273.7	372.7	406.1	389.8	395.8
Net imports (Mtoe)	20.4	-12.3	-11.9	-59.3	-127.7	-144.2	-141.5	-143.0
Total primary energy supply (Mtoe)	76.1	141.4	192.6	208.6	251.5	266.5	254.1	255.3
Net oil imports (Mtoe)	16.2	1.8	8.4	-14.9	-39.0	-62.7	-68.1	-69.9
Oil supply (Mtoe)	42.0	71.9	88.5	76.5	87.1	94.2	87.9	91.8
Electricity consumption (TWh)*	100.8	201.3	313.9	447.7	522.8	548.1	521.9	524.1
GDP (billion 2000 USD)	168.9 e	288.3	412.0	543.6	724.9	868.2	846.8	872.8
GDP PPP (billion 2000 USD)	203.7 e	347.7	496.7	655.5	874.1	1046.9	1021.1	1052.5
Population (millions)	17.89 e	21.96	24.52	27.69	30.69	33.33	33.74	33.92
Industrial production index (2005=100)	..	41.80	55.60	68.30	98.90	93.10	83.10	88.10
Total self-sufficiency**	0.7498	1.1025	1.0769	1.3124	1.4822	1.5235	1.5340	1.5501
Coal and peat self-sufficiency**	0.4564	0.5960	0.9663	1.5623	1.0867	1.2363	1.3205	1.5096
Oil self-sufficiency**	0.6334	1.0069	0.9449	1.2305	1.4745	1.6747	1.7784	1.7772
Natural gas self-sufficiency**	1.3103	1.6447	1.3967	1.6181	1.9979	1.8525	1.7194	1.7143
TPES/GDP (toe per thousand 2000 USD)	0.4507 e	0.4902	0.4675	0.3836	0.3469	0.3070	0.3001	0.2925
TPES/GDP PPP (toe per thousand 2000 USD)	0.3738 e	0.4066	0.3877	0.3182	0.2877	0.2546	0.2489	0.2426
TPES/population (toe per capita)	4.2550 e	6.4360	7.8561	7.5319	8.1943	7.9977	7.5317	7.5263
Net oil imports/GDP (toe per thousand 2000 USD)	0.0956 e	0.0062	0.0205	-0.0273	-0.0539	-0.0722	-0.0804	-0.0800
Oil supply/GDP (toe per thousand 2000 USD)	0.2485 e	0.2494	0.2149	0.1407	0.1201	0.1085	0.1038	0.1051
Oil supply/population (toe per capita)	2.3461 e	3.2743	3.6108	2.7631	2.8384	2.8260	2.6048	2.7047
Elect. cons./GDP (kWh per 2000 USD)	0.5970 e	0.6982	0.7620	0.8235	0.7212	0.6313	0.6162	0.6005
Elect. cons./population (kWh per capita)	5636 e	9167	12804	16168	17037	16445	15467	15449
Industry cons.***/industrial production (2005=100)	..	131.65	139.72	113.65	94.14	98.43	105.62	..
Industry oil cons.***/industrial production (2005=100)	..	137.72	139.12	95.69	79.00	88.03	86.64	..

\* Electricity consumption equals domestic supply less losses.

\*\* Production divided by TPES.

\*\*\* Includes non-energy use.

Canada

Figure 1. Energy production

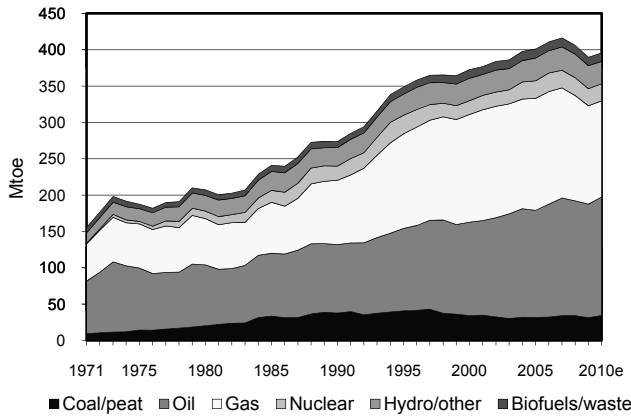


Figure 2. Total primary energy supply\*

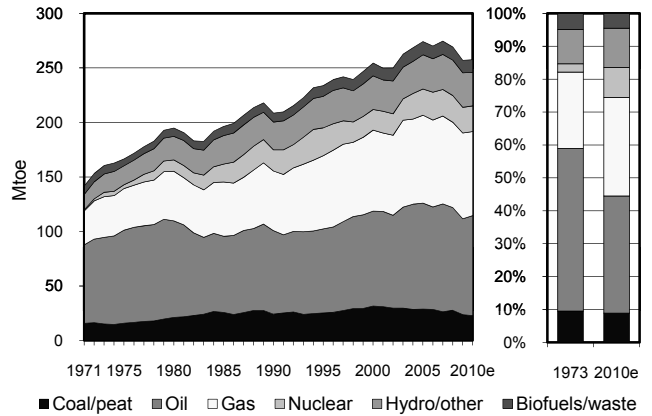


Figure 3. Energy self-sufficiency

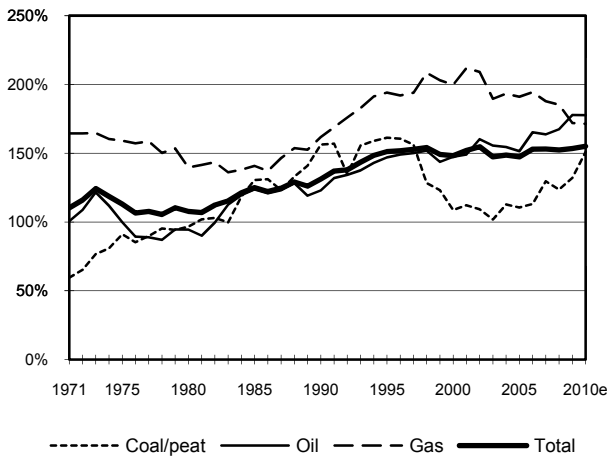


Figure 4. Breakdown of sectorial final consumption by source in 1973 and 2010e\*\*

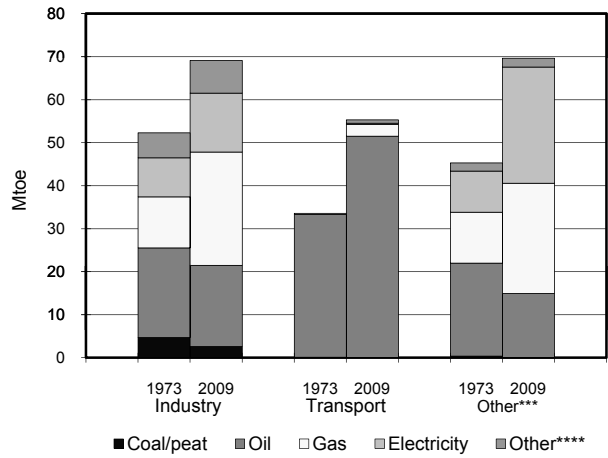


Figure 5. Electricity generation by fuel

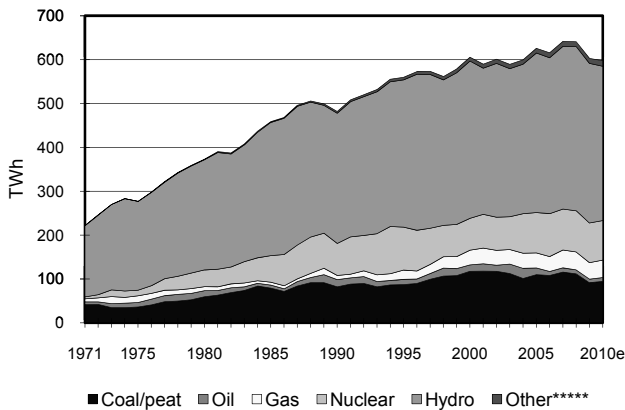
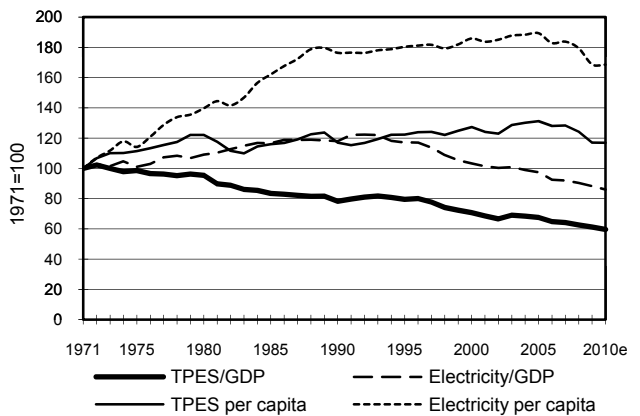


Figure 6. Selected indicators



\* Excluding electricity trade.  
 \*\* Includes non-energy use.  
 \*\*\* Includes residential, commercial and public services, agriculture/forestry, fishing and non-specified.  
 \*\*\*\* Includes biofuels and waste, direct use of geothermal/solar thermal and heat produced in CHP/heat plants.  
 \*\*\*\*\* Includes geothermal, solar, wind, biofuels and waste, etc.

## Chile : 2008

Million tonnes of oil equivalent											
<b>SUPPLY AND CONSUMPTION</b>	Coal & peat	Crude oil*	Oil products	Natural gas	Nuclear	Hydro	Geotherm. solar etc.	Biofuels & waste	Electricity	Heat	Total
Production	0.26	0.60	-	1.25	-	2.08	0.00	4.86	-	-	9.06
Imports	4.16	10.33	7.92	0.66	-	-	-	-	0.10	-	23.17
Exports	-0.01	-	-1.29	-	-	-	-	-	-	-	-1.30
Intl. marine bunkers	-	-	-1.14	-	-	-	-	-	-	-	-1.14
Intl. aviation bunkers	-	-	-0.54	-	-	-	-	-	-	-	-0.54
Stock changes	-0.01	-0.02	0.10	-0.04	-	-	-	-	-	-	0.03
<b>TPES</b>	<b>4.40</b>	<b>10.91</b>	<b>5.07</b>	<b>1.86</b>	-	<b>2.08</b>	<b>0.00</b>	<b>4.86</b>	<b>0.10</b>	-	<b>29.29</b>
Transfers	-	-0.47	0.46	-	-	-	-	-	-	-	-0.01
Statistical differences	-0.07	0.00	0.00	0.02	-	-	-	-	-0.00	-	-0.05
Electricity plants	-3.48	-	-3.12	-0.47	-	-2.08	-0.00	-	4.87	-	-4.28
CHP plants	-	-	-	-	-	-	-	-0.52	0.27	-	-0.25
Heat plants	-	-	-	-	-	-	-	-	-	-	-
Blast furnaces	-0.17 e	-	-0.02	-	-	-	-	-	-	-	-0.19
Gas works	0.02	-	-0.09	-0.02	-	-	-	-0.00	-	-	-0.08
Coke/pat. fuel/BKB plants	-0.02	-	-	-	-	-	-	-	-	-	-0.02
Oil refineries	-	-10.44	10.33	-	-	-	-	-	-	-	-0.11
Petrochemical plants	-	-	-	-	-	-	-	-	-	-	-
Liquefaction plants	-	-	-	-	-	-	-	-	-	-	-
Other transformation	-	-	-	-	-	-	-	-	-	-	-
Energy industry own use	-0.11	-	-1.06	-0.00	-	-	-	-	-0.20	-	-1.37
Losses	-0.03	-	-	-	-	-	-	-	-0.44	-	-0.46
<b>TFC</b>	<b>0.55</b>	-	<b>11.57</b>	<b>1.40</b>	-	-	-	<b>4.35</b>	<b>4.60</b>	-	<b>22.46</b>
<b>INDUSTRY</b>	<b>0.51</b>	-	<b>3.28</b>	<b>0.06</b>	-	-	-	<b>1.54</b>	<b>3.14</b>	-	<b>8.54</b>
Iron and steel	0.13 e	-	0.05	-	-	-	-	-	0.05	-	0.23
Chemical and petrochem.	-	-	0.01	0.00	-	-	-	-	0.05	-	0.06
Non-ferrous metals	-	-	-	-	-	-	-	-	-	-	-
Non-metallic minerals	0.20	-	0.07	0.00	-	-	-	-	0.05	-	0.32
Transport equipment	-	-	-	-	-	-	-	-	-	-	-
Machinery	-	-	-	-	-	-	-	-	-	-	-
Mining and quarrying	0.06	-	1.45	0.03	-	-	-	-	1.74	-	3.29
Food and tobacco	-	-	-	-	-	-	-	-	-	-	-
Paper, pulp and printing	0.01	-	0.23	0.00	-	-	-	1.18	0.46	-	1.88
Wood and wood products	-	-	-	-	-	-	-	-	-	-	-
Construction	-	-	-	-	-	-	-	-	-	-	-
Textile and leather	-	-	-	-	-	-	-	-	-	-	-
Non-specified	0.11	-	1.47	0.03	-	-	-	0.37	0.78	-	2.75
<b>TRANSPORT</b>	-	-	<b>6.79</b>	<b>0.01</b>	-	-	-	-	<b>0.04</b>	-	<b>6.84</b>
Domestic aviation	-	-	0.38	-	-	-	-	-	-	-	0.38
Road	-	-	5.78	0.01	-	-	-	-	-	-	5.80
Rail	-	-	0.05	-	-	-	-	-	0.04	-	0.08
Pipeline transport	-	-	-	-	-	-	-	-	-	-	-
Domestic navigation	-	-	0.58	-	-	-	-	-	-	-	0.58
Non-specified	-	-	-	-	-	-	-	-	-	-	-
<b>OTHER</b>	<b>0.04</b>	-	<b>1.37</b>	<b>0.47</b>	-	-	-	<b>2.80</b>	<b>1.43</b>	-	<b>6.10</b>
Residential	0.01	-	0.90	0.36	-	-	-	2.80	0.75	-	4.81
Comm. and public services	0.02	-	0.34	0.12	-	-	-	-	0.66	-	1.13
Agriculture/forestry	-	-	-	-	-	-	-	-	-	-	-
Fishing	0.01	-	0.13	0.00	-	-	-	-	0.02	-	0.15
Non-specified	-	-	-	-	-	-	-	-	-	-	-
<b>NON-ENERGY USE</b>	-	-	<b>0.14</b>	<b>0.85</b>	-	-	-	-	-	-	<b>0.99</b>
in industry/transf./energy	-	-	0.14	0.85	-	-	-	-	-	-	0.99
of which: feedstocks	-	-	-	0.85	-	-	-	-	-	-	0.85
in transport	-	-	-	-	-	-	-	-	-	-	-
in other	-	-	-	-	-	-	-	-	-	-	-
<b>Electricity and Heat Output</b>											
<b>Elec. generated - TWh</b>	<b>14.11</b>	-	<b>16.09</b>	<b>2.19</b>	-	<b>24.19</b>	<b>0.04</b>	<b>3.08</b>	-	-	<b>59.70</b>
Electricity plants	14.11 e	-	16.09	2.19	-	24.19	0.04	-	-	-	56.62
CHP plants	-	-	-	-	-	-	-	3.08	-	-	3.08
<b>Heat generated - PJ</b>	-	-	-	-	-	-	-	-	-	-	-
CHP plants	-	-	-	-	-	-	-	-	-	-	-
Heat plants	-	-	-	-	-	-	-	-	-	-	-

0

\* Includes crude oil, NGL, refinery feedstocks, additives and other hydrocarbons.

## Chile : 2009

Million tonnes of oil equivalent											
<b>SUPPLY AND CONSUMPTION</b>	Coal & peat	Crude oil*	Oil products	Natural gas	Nuclear	Hydro	Geotherm. solar etc.	Biofuels & waste	Electricity	Heat	Total
Production	0.35	0.72	-	0.99	-	2.18	0.01	5.05	-	-	9.30
Imports	3.34	10.15	6.76	1.22	-	-	-	-	0.12	-	21.59
Exports	-	-	-1.13	-	-	-	-	-	-	-	-1.13
Intl. marine bunkers	-	-	-0.82	-	-	-	-	-	-	-	-0.82
Intl. aviation bunkers	-	-	-0.44	-	-	-	-	-	-	-	-0.44
Stock changes	-0.05	0.07	0.25	0.02	-	-	-	-	-	-	0.28
<b>TPES</b>	<b>3.64</b>	<b>10.94</b>	<b>4.62</b>	<b>2.23</b>	-	<b>2.18</b>	<b>0.01</b>	<b>5.05</b>	<b>0.12</b>	-	<b>28.78</b>
Transfers	-	1.02	-0.93	-	-	-	-	-	-	-	0.09
Statistical differences	0.27	0.01	1.10	-0.09	-	-	-	-	0.01	-	1.30
Electricity plants	-3.35	-	-2.41	-0.75	-	-2.18	-0.01	-	4.82	-	-3.87
CHP plants	-	-	-0.05	-0.01	-	-	-	-0.73	0.40	-	-0.39
Heat plants	-	-	-	-	-	-	-	-	-	-	-
Blast furnaces	-0.16 e	-	-0.00	-	-	-	-	-	-	-	-0.16
Gas works	0.02	-	-0.08	0.06	-	-	-	-0.01	-	-	-0.01
Coke/pat. fuel/BKB plants	-0.00	-	-	-	-	-	-	-	-	-	-0.00
Oil refineries	-	-11.97	10.35	-	-	-	-	-	-	-	-1.62
Petrochemical plants	-	-	-	-	-	-	-	-	-	-	-
Liquefaction plants	-	-	-	-	-	-	-	-	-	-	-
Other transformation	-	-	-	-	-	-	-	-	-	-	-
Energy industry own use	-0.10	-	-0.90	-0.00	-	-	-	-	-0.15	-	-1.15
Losses	-0.02	-	-	-	-	-	-	-	-0.55	-	-0.57
<b>TFC</b>	<b>0.29</b>	-	<b>11.70</b>	<b>1.45</b>	-	-	-	<b>4.31</b>	<b>4.65</b>	-	<b>22.40</b>
<b>INDUSTRY</b>	<b>0.26</b>	-	<b>3.19</b>	<b>0.15</b>	-	-	-	<b>1.50</b>	<b>3.15</b>	-	<b>8.25</b>
Iron and steel	0.12 e	-	0.03	0.00	-	-	-	-	0.04	-	0.20
Chemical and petrochem.	-	-	0.01	0.02	-	-	-	-	0.04	-	0.07
Non-ferrous metals	-	-	-	-	-	-	-	-	-	-	-
Non-metallic minerals	0.03	-	0.23	0.00	-	-	-	-	0.04	-	0.31
Transport equipment	-	-	-	-	-	-	-	-	-	-	-
Machinery	-	-	-	-	-	-	-	-	-	-	-
Mining and quarrying	0.04	-	1.60	0.06	-	-	-	-	1.80	-	3.51
Food and tobacco	-	-	-	-	-	-	-	-	-	-	-
Paper, pulp and printing	0.01	-	0.26	0.05	-	-	-	1.16	0.45	-	1.91
Wood and wood products	-	-	-	-	-	-	-	-	0.00	-	0.00
Construction	-	-	-	-	-	-	-	-	-	-	-
Textile and leather	-	-	-	-	-	-	-	-	-	-	-
Non-specified	0.06	-	1.06	0.02	-	-	-	0.34	0.77	-	2.25
<b>TRANSPORT</b>	-	-	<b>6.84</b>	<b>0.02</b>	-	-	-	-	<b>0.04</b>	-	<b>6.89</b>
Domestic aviation	-	-	0.31	-	-	-	-	-	-	-	0.31
Road	-	-	6.00	0.02	-	-	-	-	-	-	6.02
Rail	-	-	0.04	-	-	-	-	-	0.04	-	0.08
Pipeline transport	-	-	-	-	-	-	-	-	-	-	-
Domestic navigation	-	-	0.48	-	-	-	-	-	-	-	0.48
Non-specified	-	-	-	-	-	-	-	-	-	-	-
<b>OTHER</b>	<b>0.03</b>	-	<b>1.43</b>	<b>0.51</b>	-	-	-	<b>2.82</b>	<b>1.46</b>	-	<b>6.25</b>
Residential	0.01	-	0.96	0.37	-	-	-	2.82	0.77	-	4.92
Comm. and public services	0.01	-	0.33	0.13	-	-	-	-	0.68	-	1.16
Agriculture/forestry	-	-	-	-	-	-	-	-	-	-	-
Fishing	0.01	-	0.15	0.01	-	-	-	-	0.01	-	0.17
Non-specified	-	-	-	-	-	-	-	-	-	-	-
<b>NON-ENERGY USE</b>	-	-	<b>0.25</b>	<b>0.77</b>	-	-	-	-	-	-	<b>1.01</b>
in industry/transf./energy	-	-	0.25	0.77	-	-	-	-	-	-	1.01
of which: feedstocks	-	-	-	0.77	-	-	-	-	-	-	0.77
in transport	-	-	-	-	-	-	-	-	-	-	-
in other	-	-	-	-	-	-	-	-	-	-	-
<b>Electricity and Heat Output</b>											
<b>Elec. generated - TWh</b>	<b>14.90</b>	-	<b>12.15</b>	<b>3.93</b>	-	<b>25.30</b>	<b>0.18</b>	<b>4.27</b>	-	-	<b>60.72</b>
Electricity plants	14.90	-	11.79	3.90	-	25.30	0.18	-	-	-	56.06
CHP plants	-	-	0.36	0.03	-	-	-	4.27	-	-	4.66
<b>Heat generated - PJ</b>	-	-	-	-	-	-	-	-	-	-	-
CHP plants	-	-	-	-	-	-	-	-	-	-	-
Heat plants	-	-	-	-	-	-	-	-	-	-	-

0

\* Includes crude oil, NGL, refinery feedstocks, additives and other hydrocarbons.

## Chile

## Estimated energy supply balance for 2010

Million tonnes of oil equivalent											
SUPPLY	Coal & peat	Crude oil*	Oil products	Natural gas	Nuclear	Hydro	Geotherm. solar etc.	Biofuels & waste	Electricity	Heat	Total
Production	0.34	0.61	-	1.51	-	1.87	0.03	5.19	-	-	9.56
Imports	3.79	8.66	7.35	2.89	-	-	-	-	0.08	-	22.77
Exports	-	-	-0.64	-	-	-	-	-	-	-	-0.64
Intl. marine bunkers	-	-	-0.40	-	-	-	-	-	-	-	-0.40
Intl. aviation bunkers	-	-	-0.46	-	-	-	-	-	-	-	-0.46
Stock changes	-	0.29	0.14	-	-	-	-	-	-	-	0.43
<b>TPES</b>	<b>4.13</b>	<b>9.55</b>	<b>5.99</b>	<b>4.40</b>	-	<b>1.87</b>	<b>0.03</b>	<b>5.19</b>	<b>0.08</b>	-	<b>31.26</b>
Electricity and Heat Output											
Elec. generated - TWh	16.76	-	8.26	10.91	-	21.79	0.43	4.31	-	-	62.45
Heat generated - PJ	-	-	-	-	-	-	-	-	-	-	-

\* Includes crude oil, NGL, refinery feedstocks, additives and other hydrocarbons.

## Key indicators

	1960	1971	1980	1990	2000	2008	2009	2010e
Energy production (Mtoe)	..	5.3	5.8	7.5	8.1	9.1	9.3	9.6
Net imports (Mtoe)	..	4.0	4.0	7.0	17.7	21.9	20.5	22.1
Total primary energy supply (Mtoe)	..	8.7	9.5	13.6	24.7	29.3	28.8	31.3
Net oil imports (Mtoe)	..	3.8	3.4	5.9	11.1	17.0	15.8	15.4
Oil supply (Mtoe)	..	4.9	5.1	6.5	10.5	16.0	15.6	15.5
Electricity consumption (TWh)*	..	7.6	10.3	16.4	38.4	55.8	55.7	57.0
GDP (billion 2000 USD)	..	23.0	28.0	40.6	75.4	105.1	103.3	108.7
GDP PPP (billion 2000 USD)	..	43.7	53.2	77.0	143.1	199.4	196.1	206.2
Population (millions)	..	9.77	11.19	13.18	15.40	16.76	16.93	17.10
Industrial production index (2005=100)	..	..	..	..	79.90	107.70	100.40	101.00
Total self-sufficiency**	..	0.6140	0.6120	0.5512	0.3285	0.3092	0.3231	0.3057
Coal and peat self-sufficiency**	..	0.8555	0.6391	0.5810	0.0792	0.0596	0.0968	0.0830
Oil self-sufficiency**	..	0.3578	0.3612	0.1802	0.0408	0.0377	0.0463	0.0389
Natural gas self-sufficiency**	..	1.0000	1.0000	1.2349	0.3069	0.6687	0.4446	0.3430
TPES/GDP (toe per thousand 2000 USD)	..	0.3777	0.3382	0.3341	0.3277	0.2788	0.2787	0.2877
TPES/GDP PPP (toe per thousand 2000 USD)	..	0.1990	0.1782	0.1760	0.1726	0.1469	0.1468	0.1515
TPES/population (toe per capita)	..	0.8906	0.8467	1.0284	1.6043	1.7471	1.7002	1.8282
Net oil imports/GDP (toe per thousand 2000 USD)	..	0.1667	0.1213	0.1453	0.1466	0.1615	0.1529	0.1414
Oil supply/GDP (toe per thousand 2000 USD)	..	0.2142	0.1808	0.1595	0.1390	0.1521	0.1507	0.1430
Oil supply/population (toe per capita)	..	0.5050	0.4527	0.4910	0.6803	0.9531	0.9193	0.9090
Elect. cons./GDP (kWh per 2000 USD)	..	0.3285	0.3679	0.4051	0.5086	0.5310	0.5390	0.5247
Elect. cons./population (kWh per capita)	..	775	921	1247	2490	3327	3288	3335
Industry cons.***/industrial production (2005=100)	..	..	..	..	116.28	90.95	94.83	..
Industry oil cons.***/industrial production (2005=100)	..	..	..	..	118.85	141.25	152.42	..

\* Electricity consumption equals domestic supply less losses.

\*\* Production divided by TPES.

\*\*\* Includes non-energy use.

## Chile

Figure 1. Energy production

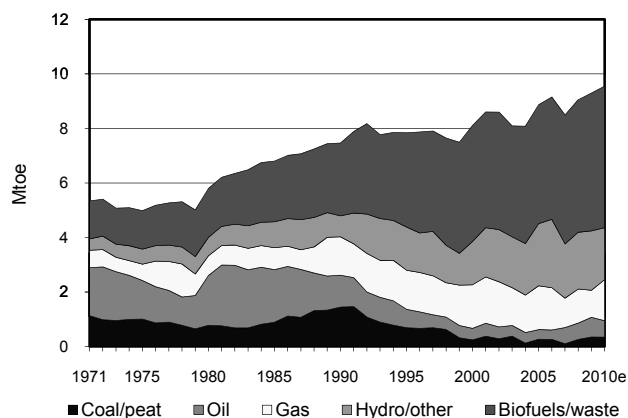


Figure 2. Total primary energy supply\*

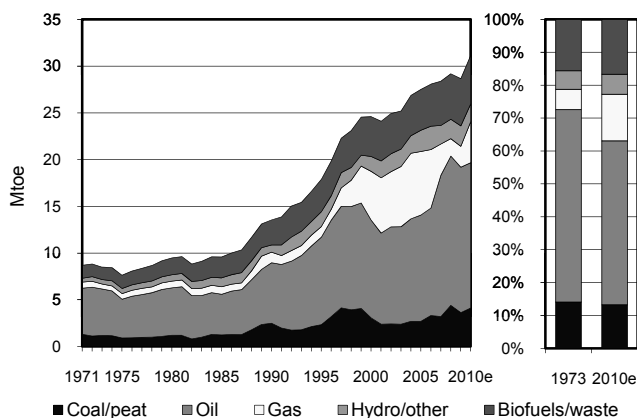


Figure 3. Energy self-sufficiency

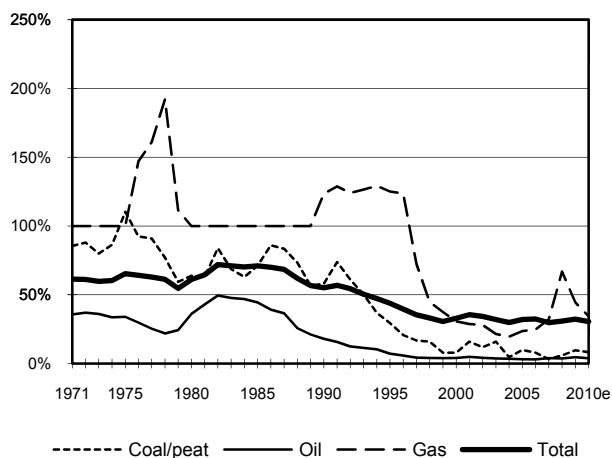


Figure 4. Breakdown of sectorial final consumption by source in 1973 and 2009\*\*

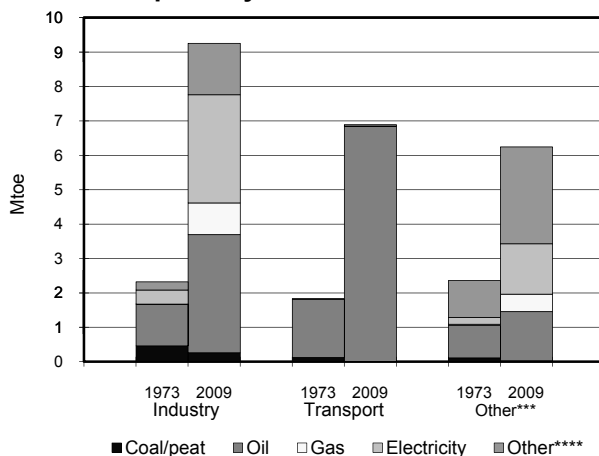


Figure 5. Electricity generation by fuel

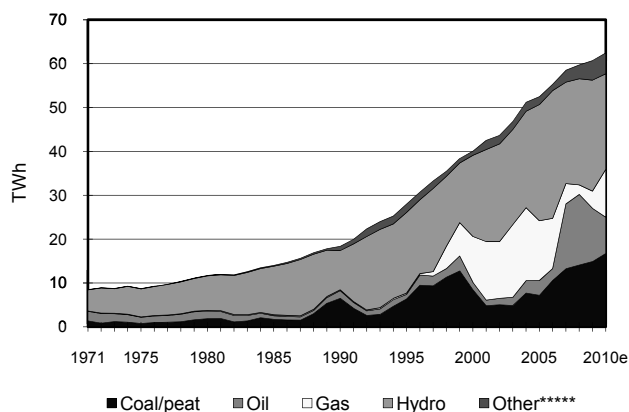
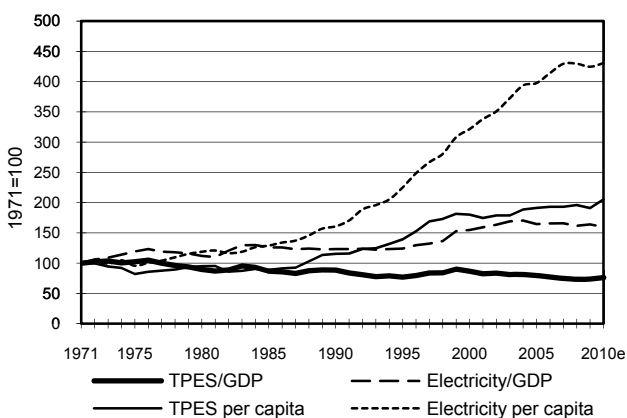


Figure 6. Selected indicators



\* Excluding electricity trade.

\*\* Includes non-energy use.

\*\*\* Includes residential, commercial and public services, agriculture/forestry, fishing and non-specified.

\*\*\*\* Includes biofuels and waste, direct use of geothermal/solar thermal and heat produced in CHP/heat plants.

\*\*\*\*\* Includes geothermal, solar, wind, biofuels and waste, etc.

## Czech Republic : 2008

Million tonnes of oil equivalent											
<b>SUPPLY AND CONSUMPTION</b>	Coal & peat	Crude oil*	Oil products	Natural gas	Nuclear	Hydro	Geotherm. solar etc.	Biofuels & waste	Electricity	Heat	Total
Production	22.79	0.31	-	0.16	6.94	0.17	0.03	2.40	-	0.02	32.82
Imports	2.04	8.24	2.74	7.81	-	-	-	0.10	0.73	-	21.66
Exports	-5.13	-0.02	-1.33	-0.79	-	-	-	-0.30	-1.72	-0.00	-9.30
Intl. marine bunkers	-	-	-	-	-	-	-	-	-	-	-
Intl. aviation bunkers	-	-	-0.33	-	-	-	-	-	-	-	-0.33
Stock changes	-0.03	-0.09	-0.03	-0.06	-	-	-	-0.00	-	-	-0.22
<b>TPES</b>	<b>19.66</b>	<b>8.44</b>	<b>1.05</b>	<b>7.12</b>	<b>6.94</b>	<b>0.17</b>	<b>0.03</b>	<b>2.20</b>	<b>-0.99</b>	<b>0.02</b>	<b>44.63</b>
Transfers	-	0.15	-0.12	-	-	-	-	-	-	-	0.03
Statistical differences	-0.26	0.00	-	-0.03	-	-	-	0.00	-	-	-0.29
Electricity plants	-8.41	-	-0.01	-0.01	-6.92	-0.17	-0.02	-0.14	5.38	-0.00	-10.31
CHP plants	-6.23	-	-0.07	-0.37	-0.02	-	-	-0.22	1.77	2.39	-2.75
Heat plants	-0.10	-	-0.06	-0.58	-	-	-	-0.08	..	0.68	-0.13
Blast furnaces	-0.96	-	-	-	-	-	-	-	-	-	-0.96
Gas works	-0.18	-	-	-	-	-	-	-	-	-	-0.18
Coke/pat. fuel/BKB plants	-0.08	-	-	-	-	-	-	-	-	-	-0.08
Oil refineries	-	-8.66	8.72	-	-	-	-	-	-	-	0.07
Petrochemical plants	-	0.08	-0.07	-	-	-	-	-	-	-	0.00
Liquefaction plants	-	-	-	-	-	-	-	-	-	-	-
Other transformation	-	-	-	-	-	-	-	-	-	-	-
Energy industry own use	-0.37	-	-0.30	-0.11	-	-	-	-	-0.77	-0.42	-1.98
Losses	-0.09	-	-	-0.08	-	-	-	-	-0.40	-0.44	-1.01
<b>TFC</b>	<b>2.97</b>	<b>-</b>	<b>9.13</b>	<b>5.94</b>	<b>-</b>	<b>-</b>	<b>0.00</b>	<b>1.76</b>	<b>4.99</b>	<b>2.23</b>	<b>27.03</b>
<b>INDUSTRY</b>	<b>2.08</b>	<b>-</b>	<b>0.41</b>	<b>2.24</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.52</b>	<b>2.09</b>	<b>0.64</b>	<b>7.99</b>
Iron and steel	1.10	-	0.03	0.28	-	-	-	0.00	0.27	0.05	1.74
Chemical and petrochem.	0.57	-	0.05	0.19	-	-	-	0.01	0.31	0.20	1.33
Non-ferrous metals	0.00	-	-	0.04	-	-	-	-	0.03	0.00	0.07
Non-metallic minerals	0.21	-	0.03	0.65	-	-	-	0.12	0.23	0.01	1.25
Transport equipment	0.01	-	0.00	0.14	-	-	-	-	0.20	0.06	0.41
Machinery	0.05	-	0.01	0.27	-	-	-	0.00	0.34	0.11	0.79
Mining and quarrying	0.00	-	0.01	0.03	-	-	-	0.00	0.03	0.00	0.07
Food and tobacco	0.04	-	0.03	0.28	-	-	-	0.00	0.15	0.11	0.60
Paper, pulp and printing	0.06	-	0.02	0.10	-	-	-	0.24	0.16	0.04	0.61
Wood and wood products	0.00	-	0.01	0.02	-	-	-	0.13	0.05	0.01	0.22
Construction	0.01	-	0.06	0.08	-	-	-	0.00	0.04	0.03	0.23
Textile and leather	0.02	-	0.00	0.06	-	-	-	0.00	0.08	0.02	0.18
Non-specified	0.00	-	0.16	0.10	-	-	-	0.01	0.21	0.00	0.49
<b>TRANSPORT</b>	<b>0.00</b>	<b>-</b>	<b>5.83</b>	<b>0.07</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.11</b>	<b>0.18</b>	<b>-</b>	<b>6.19</b>
Domestic aviation	-	-	0.07	-	-	-	-	-	-	-	0.07
Road	-	-	5.65	0.01	-	-	-	0.11	-	-	5.77
Rail	0.00	-	0.11	-	-	-	-	-	0.09	-	0.20
Pipeline transport	-	-	-	0.06	-	-	-	-	0.00	-	0.07
Domestic navigation	-	-	0.00	-	-	-	-	-	-	-	0.00
Non-specified	-	-	-	-	-	-	-	-	0.09	-	0.09
<b>OTHER</b>	<b>0.56</b>	<b>-</b>	<b>0.40</b>	<b>3.53</b>	<b>-</b>	<b>-</b>	<b>0.00</b>	<b>1.13</b>	<b>2.71</b>	<b>1.59</b>	<b>9.92</b>
Residential	0.46	-	0.02	2.05	-	-	0.00	1.05	1.26	1.15	5.99
Comm. and public services	0.08	-	0.02	1.33	-	-	0.00	0.05	1.20	0.43	3.11
Agriculture/forestry	0.01	-	0.34	0.05	-	-	-	0.02	0.09	0.01	0.52
Fishing	-	-	-	-	-	-	-	-	0.00	-	0.00
Non-specified	0.00	-	0.03	0.10	-	-	-	-	0.16	0.00	0.30
<b>NON-ENERGY USE</b>	<b>0.34</b>	<b>-</b>	<b>2.49</b>	<b>0.10</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>2.93</b>
in industry/transf./energy	0.34	-	2.36	0.10	-	-	-	-	-	-	2.79
<i>of which: feedstocks</i>	-	-	1.79	0.10	-	-	-	-	-	-	1.88
in transport	-	-	0.13	-	-	-	-	-	-	-	0.13
in other	-	-	-	-	-	-	-	-	-	-	-
<b>Electricity and Heat Output</b>											
<b>Elec. generated - TWh</b>	<b>51.72</b>	<b>-</b>	<b>0.13</b>	<b>1.02</b>	<b>26.55</b>	<b>2.02</b>	<b>0.26</b>	<b>1.46</b>	<b>-</b>	<b>0.00</b>	<b>83.17</b>
Electricity plants	33.08	-	0.03	0.04	26.55	2.02	0.26	0.58	-	-	62.56
CHP plants	18.65	-	0.10	0.98	-	-	-	0.88	-	0.00	20.61
<b>Heat generated - PJ</b>	<b>90.92</b>	<b>-</b>	<b>3.20</b>	<b>28.38</b>	<b>0.97</b>	<b>-</b>	<b>0.20</b>	<b>5.01</b>	<b>-</b>	<b>1.00</b>	<b>129.68</b>
CHP plants	87.72	-	1.18	7.43	0.97	-	0.20	2.58	-	0.90	100.98
Heat plants	3.20	-	2.02	20.96	-	-	-	2.43	-	0.10	28.71

\* Includes crude oil, NGL, refinery feedstocks, additives and other hydrocarbons.

## Czech Republic : 2009

Million tonnes of oil equivalent											
<b>SUPPLY AND CONSUMPTION</b>	Coal & peat	Crude oil*	Oil products	Natural gas	Nuclear	Hydro	Geotherm. solar etc.	Biofuels & waste	Electricity	Heat	Total
Production	20.85	0.28	-	0.15	7.11	0.21	0.04	2.54	-	0.02	31.20
Imports	1.89	7.30	3.04	7.93	-	-	-	0.11	0.74	-	21.00
Exports	-5.38	-0.02	-1.13	-0.91	-	-	-	-0.28	-1.91	-	-9.63
Intl. marine bunkers	-	-	-	-	-	-	-	-	-	-	-
Intl. aviation bunkers	-	-	-0.34	-	-	-	-	-	-	-	-0.34
Stock changes	0.20	-0.01	-0.00	-0.44	-	-	-	0.00	-	-	-0.25
<b>TPES</b>	<b>17.56</b>	<b>7.55</b>	<b>1.57</b>	<b>6.72</b>	<b>7.11</b>	<b>0.21</b>	<b>0.04</b>	<b>2.37</b>	<b>-1.17</b>	<b>0.02</b>	<b>41.99</b>
Transfers	-	0.13	-0.11	-	-	-	-	-	-	-	0.02
Statistical differences	0.31	0.01	0.00	-0.02	-	-	-	-	-	-	0.30
Electricity plants	-7.51	-	-0.01	-0.01	-7.09	-0.21	-0.03	-0.18	5.34	-0.00	-9.70
CHP plants	-6.14	-	-0.09	-0.39	-0.02	-	-	-0.25	1.69	2.22	-2.99
Heat plants	-0.10	-	-0.04	-0.56	-	-	-	-0.09	..	0.66	-0.13
Blast furnaces	-0.76	-	-	-	-	-	-	-	-	-	-0.76
Gas works	-0.14	-	-	-	-	-	-	-	-	-	-0.14
Coke/pat. fuel/BKB plants	0.02	-	-	-	-	-	-	-	-	-	0.02
Oil refineries	-	-7.76	7.78	-	-	-	-	-	-	-	0.02
Petrochemical plants	-	0.08	-0.07	-	-	-	-	-	-	-	0.00
Liquefaction plants	-	-	-	-	-	-	-	-	-	-	-
Other transformation	-	-	-	-	-	-	-	-	-	-	-
Energy industry own use	-0.31	-	-0.27	-0.11	-	-	-	-	-0.74	-0.41	-1.84
Losses	-0.05	-	-	-0.17	-	-	-	-	-0.39	-0.42	-1.03
<b>TFC</b>	<b>2.88</b>	<b>-</b>	<b>8.76</b>	<b>5.46</b>	<b>-</b>	<b>-</b>	<b>0.01</b>	<b>1.85</b>	<b>4.72</b>	<b>2.07</b>	<b>25.75</b>
<b>INDUSTRY</b>	<b>2.09</b>	<b>-</b>	<b>0.43</b>	<b>1.92</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.53</b>	<b>1.88</b>	<b>0.53</b>	<b>7.38</b>
Iron and steel	0.97	-	0.02	0.24	-	-	-	0.00	0.27	0.05	1.54
Chemical and petrochem.	0.81	-	0.03	0.18	-	-	-	0.00	0.29	0.19	1.51
Non-ferrous metals	-	-	-	0.03	-	-	-	-	0.02	0.00	0.06
Non-metallic minerals	0.14	-	0.04	0.48	-	-	-	0.13	0.17	0.01	0.98
Transport equipment	0.01	-	0.00	0.14	-	-	-	-	0.19	0.04	0.38
Machinery	0.03	-	0.01	0.27	-	-	-	0.00	0.27	0.10	0.67
Mining and quarrying	0.00	-	0.01	0.03	-	-	-	0.00	0.02	0.00	0.06
Food and tobacco	0.03	-	0.02	0.28	-	-	-	0.00	0.14	0.07	0.55
Paper, pulp and printing	0.08	-	0.01	0.09	-	-	-	0.25	0.15	0.02	0.59
Wood and wood products	0.00	-	0.01	0.03	-	-	-	0.13	0.04	0.01	0.21
Construction	0.01	-	0.05	0.06	-	-	-	0.00	0.04	0.02	0.19
Textile and leather	0.01	-	0.00	0.04	-	-	-	0.00	0.06	0.02	0.13
Non-specified	0.00	-	0.22	0.05	-	-	-	0.01	0.21	0.00	0.50
<b>TRANSPORT</b>	<b>0.00</b>	<b>-</b>	<b>5.78</b>	<b>0.07</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.20</b>	<b>0.18</b>	<b>-</b>	<b>6.22</b>
Domestic aviation	-	-	0.03	-	-	-	-	-	-	-	0.03
Road	-	-	5.64	0.01	-	-	-	0.20	-	-	5.84
Rail	0.00	-	0.10	-	-	-	-	-	0.09	-	0.19
Pipeline transport	-	-	-	0.07	-	-	-	-	0.00	-	0.07
Domestic navigation	-	-	0.01	-	-	-	-	-	-	-	0.01
Non-specified	-	-	-	-	-	-	-	-	0.08	-	0.08
<b>OTHER</b>	<b>0.55</b>	<b>-</b>	<b>0.37</b>	<b>3.41</b>	<b>-</b>	<b>-</b>	<b>0.01</b>	<b>1.12</b>	<b>2.67</b>	<b>1.54</b>	<b>9.66</b>
Residential	0.50	-	0.01	2.06	-	-	0.00	1.04	1.26	1.11	5.99
Comm. and public services	0.03	-	0.01	1.25	-	-	0.00	0.06	1.17	0.42	2.94
Agriculture/forestry	0.01	-	0.33	0.05	-	-	-	0.03	0.08	0.01	0.51
Fishing	-	-	-	-	-	-	-	-	0.00	-	0.00
Non-specified	-	-	0.02	0.05	-	-	-	-	0.15	0.00	0.22
<b>NON-ENERGY USE</b>	<b>0.24</b>	<b>-</b>	<b>2.19</b>	<b>0.06</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>2.49</b>
in industry/transf./energy	0.24	-	2.06	0.06	-	-	-	-	-	-	2.36
of which: feedstocks	-	-	1.60	0.06	-	-	-	-	-	-	1.66
in transport	-	-	0.13	-	-	-	-	-	-	-	0.13
in other	-	-	-	-	-	-	-	-	-	-	-
<b>Electricity and Heat Output</b>											
<b>Elec. generated - TWh</b>	<b>48.70</b>	<b>-</b>	<b>0.16</b>	<b>0.98</b>	<b>27.21</b>	<b>2.43</b>	<b>0.38</b>	<b>1.86</b>	<b>-</b>	<b>-</b>	<b>81.70</b>
Electricity plants	31.24	-	0.04	0.04	27.21	2.43	0.38	0.76	-	-	62.09
CHP plants	17.46	-	0.12	0.94	-	-	-	1.09	-	-	19.61
<b>Heat generated - PJ</b>	<b>83.23</b>	<b>-</b>	<b>2.85</b>	<b>28.45</b>	<b>0.99</b>	<b>-</b>	<b>0.22</b>	<b>4.81</b>	<b>-</b>	<b>1.03</b>	<b>121.57</b>
CHP plants	80.04	-	1.42	8.04	0.99	-	0.22	2.11	-	0.94	93.74
Heat plants	3.19	-	1.43	20.41	-	-	-	2.70	-	0.10	27.83

\* Includes crude oil, NGL, refinery feedstocks, additives and other hydrocarbons.



## Czech Republic

## Estimated energy supply balance for 2010

Million tonnes of oil equivalent											
SUPPLY	Coal & peat	Crude oil*	Oil products	Natural gas	Nuclear	Hydro	Geotherm. solar etc.	Biofuels & waste	Electricity	Heat	Total
Production	20.65	0.23	-	0.17	7.32	0.24	0.09	2.71	-	0.02	31.44
Imports	1.40	7.84	2.47	6.97	-	-	-	0.15	0.57	-	19.40
Exports	-5.55	-0.02	-1.61	-0.13	-	-	-	-0.29	-1.86	-	-9.46
Intl. marine bunkers	-	-	-	-	-	-	-	-	-	-	-
Intl. aviation bunkers	-	-	-0.32	-	-	-	-	-	-	-	-0.32
Stock changes	0.62	0.02	0.02	0.62	-	-	-	-0.00	-	-	1.27
<b>TPES</b>	<b>17.12</b>	<b>8.07</b>	<b>0.56</b>	<b>7.63</b>	<b>7.32</b>	<b>0.24</b>	<b>0.09</b>	<b>2.56</b>	<b>-1.29</b>	<b>0.02</b>	<b>42.33</b>
Electricity and Heat Output											
Elec. generated - TWh	50.17	-	0.16	1.07	28.00	2.79	0.95	2.17	-	-	85.32
Heat generated - PJ	83.29	-	2.82	28.76	1.07	-	0.20	4.88	-	1.04	122.06

\* Includes crude oil, NGL, refinery feedstocks, additives and other hydrocarbons.

## Key indicators

	1960	1971	1980	1990	2000	2008	2009	2010e
Energy production (Mtoe)	..	40.0	41.2	40.9	30.7	32.8	31.2	31.4
Net imports (Mtoe)	..	5.7	6.4	7.6	9.4	12.4	11.4	9.9
Total primary energy supply (Mtoe)	..	45.4	47.0	49.6	41.0	44.6	42.0	42.3
Net oil imports (Mtoe)	..	7.4	10.9	8.6	7.5	9.6	9.2	8.7
Oil supply (Mtoe)	..	7.2	10.8	8.7	7.7	9.5	9.1	8.6
Electricity consumption (TWh)*	..	33.7	47.3	57.9	58.5	67.4	64.1	66.5
GDP (billion 2000 USD)	27.8 e	38.3 e	48.7 e	55.3	56.7	79.2	75.9	77.6
GDP PPP (billion 2000 USD)	75.5 e	104.1 e	132.2 e	150.2	154.0	214.9	206.0	210.8
Population (millions)	9.58 e	9.83	10.33	10.36	10.27	10.43	10.51	10.48
Industrial production index (2005=100)	..	..	..	89.90	74.90	117.70	101.60	111.70
Total self-sufficiency**	..	0.8802	0.8778	0.8254	0.7480	0.7354	0.7430	0.7426
Coal and peat self-sufficiency**	..	1.0570	1.2094	1.1540	1.1607	1.1592	1.1875	1.2062
Oil self-sufficiency**	..	0.0049	0.0218	0.0236	0.0491	0.0323	0.0302	0.0271
Natural gas self-sufficiency**	..	0.4563	0.1220	0.0382	0.0226	0.0225	0.0217	0.0219
TPES/GDP (toe per thousand 2000 USD)	..	1.1842	0.9646 e	0.8963	0.7225	0.5639	0.5535	0.5454
TPES/GDP PPP (toe per thousand 2000 USD)	..	0.4361	0.3552 e	0.3301	0.2661	0.2077	0.2038	0.2008
TPES/population (toe per capita)	..	4.6164	4.5460	4.7827	3.9890	4.2790	3.9964	4.0399
Net oil imports/GDP (toe per thousand 2000 USD)	..	0.1918	0.2237 e	0.1552	0.1324	0.1216	0.1212	0.1117
Oil supply/GDP (toe per thousand 2000 USD)	..	0.1866	0.2226 e	0.1577	0.1359	0.1198	0.1202	0.1111
Oil supply/population (toe per capita)	..	0.7274	1.0492	0.8415	0.7502	0.9090	0.8682	0.8233
Elect. cons./GDP (kWh per 2000 USD)	..	0.8780	0.9708 e	1.0466	1.0313	0.8514	0.8452	0.8564
Elect. cons./population (kWh per capita)	..	3423	4575	5584	5694	6461	6103	6344
Industry cons.***/industrial production (2005=100)	..	..	..	168.97	128.60	79.80	83.49	..
Industry oil cons.***/industrial production (2005=100)	..	..	..	161.44	113.29	77.34	80.35	..

\* Electricity consumption equals domestic supply less losses.

\*\* Production divided by TPES.

\*\*\* Includes non-energy use.

### Czech Republic

Figure 1. Energy production

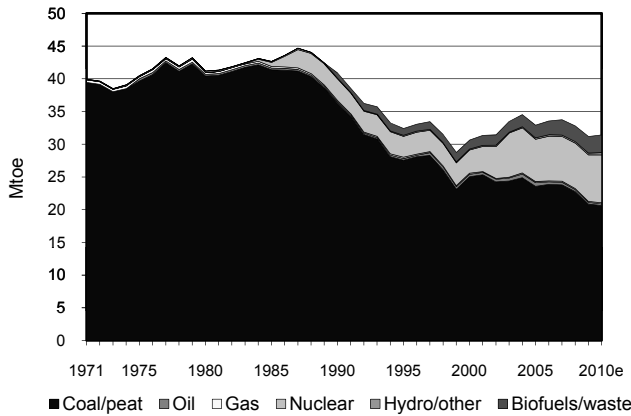


Figure 2. Total primary energy supply\*

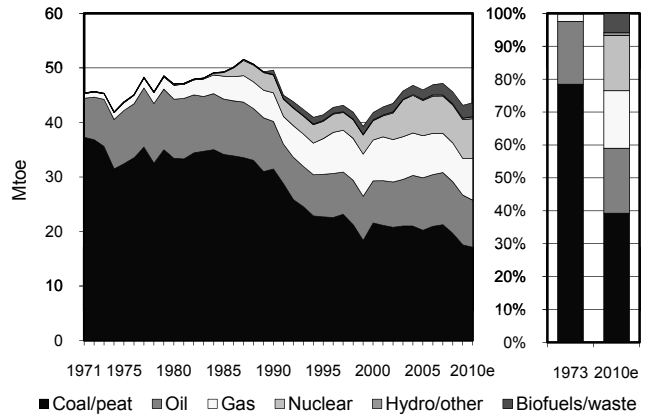


Figure 3. Energy self-sufficiency

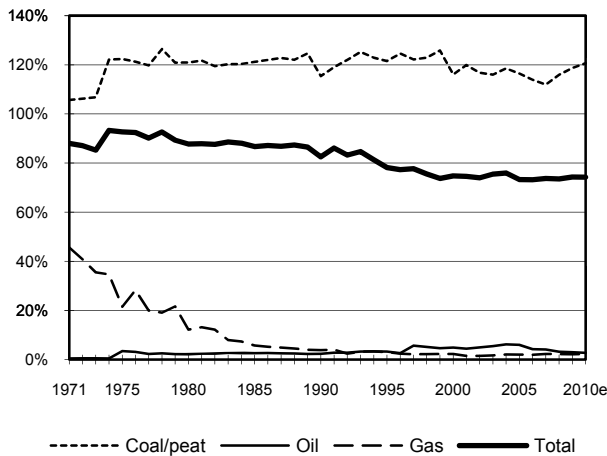


Figure 4. Breakdown of sectorial final consumption by source in 1973 and 2009\*\*

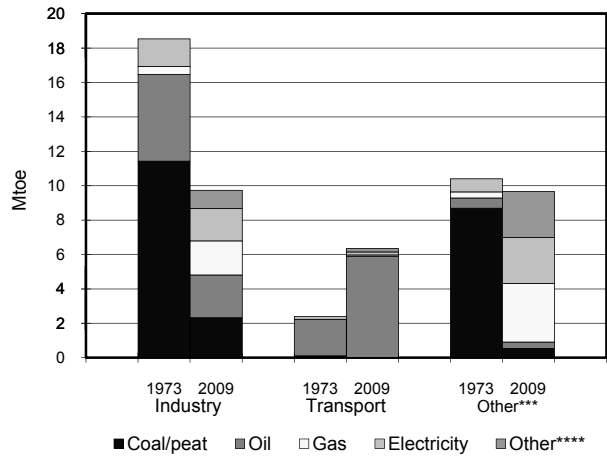


Figure 5. Electricity generation by fuel

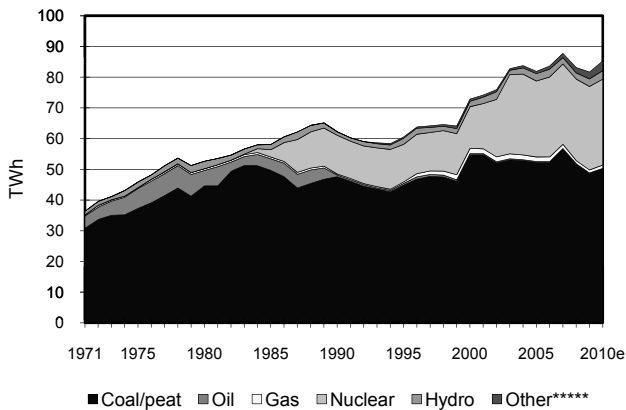
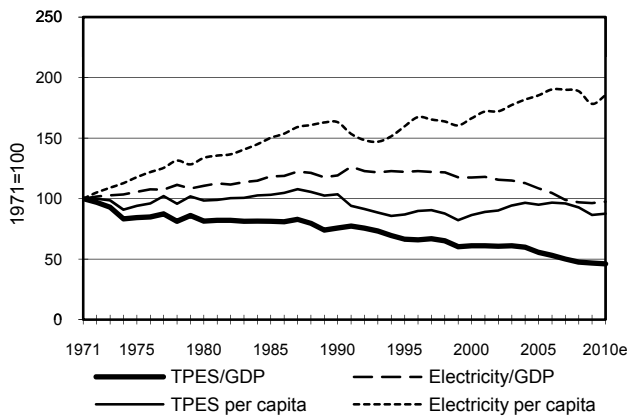


Figure 6. Selected indicators



\* Excluding electricity trade.  
 \*\* Includes non-energy use.  
 \*\*\* Includes residential, commercial and public services, agriculture/forestry, fishing and non-specified.  
 \*\*\*\* Includes biofuels and waste, direct use of geothermal/solar thermal and heat produced in CHP/heat plants.  
 \*\*\*\*\* Includes geothermal, solar, wind, biofuels and waste, etc.

## Denmark : 2008

Million tonnes of oil equivalent											
SUPPLY AND CONSUMPTION	Coal & peat	Crude oil*	Oil products	Natural gas	Nuclear	Hydro	Geotherm. solar etc.	Biofuels & waste	Electricity	Heat	Total
Production	-	14.41	-	9.02	-	0.00	0.62	2.57	-	0.00	26.62
Imports	4.44	2.55	7.04	-	-	-	-	0.52	1.10	0.00	15.67
Exports	-0.09	-9.38	-4.76	-4.93	-	-	-	-0.09	-0.98	-	-20.23
Intl. marine bunkers	-	-	-0.91	-	-	-	-	-	-	-	-0.91
Intl. aviation bunkers	-	-	-0.88	-	-	-	-	-	-	-	-0.88
Stock changes	-0.34	-0.04	-0.66	-0.01	-	-	-	-	-	-	-1.05
<b>TPES</b>	<b>4.01</b>	<b>7.55</b>	<b>-0.18</b>	<b>4.08</b>	<b>-</b>	<b>0.00</b>	<b>0.62</b>	<b>3.01</b>	<b>0.13</b>	<b>0.00</b>	<b>19.22</b>
Transfers	-	-	0.01	-	-	-	-	-	-	-	0.01
Statistical differences	0.09	0.45	-0.14	0.04	-	-	-	-	-0.00	-0.00	0.42
Electricity plants	-	-	-0.02	-	-	-0.00	-0.60	-0.00	0.60	-	-0.02
CHP plants	-3.88	-	-0.25	-1.65	-	-	-	-1.37	2.55	2.38	-2.22
Heat plants	-0.00	-	-0.03	-0.16	-	-	-0.01	-0.46	-0.00	0.66	-0.00
Blast furnaces	-	-	-	-	-	-	-	-	-	-	-
Gas works	0.01	-	-	-0.01	-	-	-	-	-	-	-0.00
Coke/pat. fuel/BKB plants	-	-	-	-	-	-	-	-	-	-	-
Oil refineries	-	-7.99	7.49	-	-	-	-	-	-	-	-0.50
Petrochemical plants	-	-	-	-	-	-	-	-	-	-	-
Liquefaction plants	-	-	-	-	-	-	-	-	-	-	-
Other transformation	-	-	-	-	-	-	-	-	-	-	-
Energy industry own use	-	-	-0.31	-0.67	-	-	-	-	-0.24	-0.04	-1.25
Losses	-0.00	-	-	-0.00	-	-	-	-	-0.18	-0.60	-0.78
<b>TFC</b>	<b>0.23</b>	<b>-</b>	<b>6.58</b>	<b>1.61</b>	<b>-</b>	<b>-</b>	<b>0.01</b>	<b>1.18</b>	<b>2.86</b>	<b>2.41</b>	<b>14.88</b>
<b>INDUSTRY</b>	<b>0.18</b>	<b>-</b>	<b>0.65</b>	<b>0.72</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.17</b>	<b>0.83</b>	<b>0.14</b>	<b>2.70</b>
Iron and steel	-	-	0.00	0.04	-	-	-	-	0.02	0.00	0.06
Chemical and petrochem.	-	-	0.01	0.05	-	-	-	0.00	0.10	0.02	0.19
Non-ferrous metals	-	-	0.00	0.00	-	-	-	-	0.01	0.00	0.01
Non-metallic minerals	0.14	-	0.22	0.13	-	-	-	0.02	0.08	0.01	0.59
Transport equipment	-	-	0.01	0.01	-	-	-	0.00	0.03	0.00	0.05
Machinery	0.00	-	0.06	0.08	-	-	-	0.01	0.15	0.03	0.31
Mining and quarrying	0.00	-	0.03	0.04	-	-	-	0.01	0.01	0.00	0.08
Food and tobacco	0.04	-	0.12	0.27	-	-	-	0.01	0.20	0.04	0.67
Paper, pulp and printing	0.00	-	0.01	0.04	-	-	-	0.00	0.07	0.01	0.14
Wood and wood products	-	-	0.01	0.01	-	-	-	0.08	0.03	0.00	0.13
Construction	-	-	0.16	0.01	-	-	-	-	0.04	-	0.20
Textile and leather	-	-	0.00	0.01	-	-	-	-	0.01	0.00	0.03
Non-specified	-	-	0.02	0.04	-	-	-	0.06	0.10	0.02	0.23
<b>TRANSPORT</b>	<b>-</b>	<b>-</b>	<b>4.60</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.01</b>	<b>0.03</b>	<b>-</b>	<b>4.64</b>
Domestic aviation	-	-	0.04	-	-	-	-	-	-	-	0.04
Road	-	-	4.26	-	-	-	-	0.01	-	-	4.26
Rail	-	-	0.08	-	-	-	-	-	0.03	-	0.11
Pipeline transport	-	-	-	-	-	-	-	-	-	-	-
Domestic navigation	-	-	0.19	-	-	-	-	-	-	-	0.19
Non-specified	-	-	0.03	-	-	-	-	-	-	-	0.03
<b>OTHER</b>	<b>0.05</b>	<b>-</b>	<b>1.07</b>	<b>0.90</b>	<b>-</b>	<b>-</b>	<b>0.01</b>	<b>1.00</b>	<b>1.99</b>	<b>2.26</b>	<b>7.28</b>
Residential	0.01	-	0.48	0.62	-	-	0.01	0.89	0.88	1.52	4.42
Comm. and public services	0.00	-	0.08	0.22	-	-	0.00	0.05	0.94	0.70	1.99
Agriculture/forestry	0.04	-	0.36	0.04	-	-	-	0.05	0.17	0.05	0.70
Fishing	-	-	0.15	-	-	-	-	-	-	-	0.15
Non-specified	-	-	-	0.01	-	-	-	-	-	-	0.01
<b>NON-ENERGY USE</b>	<b>-</b>	<b>-</b>	<b>0.26</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.26</b>
in industry/transf./energy	-	-	0.22	-	-	-	-	-	-	-	0.22
of which: feedstocks	-	-	-	-	-	-	-	-	-	-	-
in transport	-	-	0.03	-	-	-	-	-	-	-	0.03
in other	-	-	0.01	-	-	-	-	-	-	-	0.01
<b>Electricity and Heat Output</b>											
<b>Elec. generated - TWh</b>	<b>17.45</b>	<b>-</b>	<b>1.14</b>	<b>7.09</b>	<b>-</b>	<b>0.03</b>	<b>6.93</b>	<b>4.00</b>	<b>-</b>	<b>-</b>	<b>36.64</b>
Electricity plants	-	-	0.06	-	-	0.03	6.93	0.00	-	-	7.02
CHP plants	17.45	-	1.08	7.09	-	-	-	4.00	-	-	29.62
<b>Heat generated - PJ</b>	<b>32.99</b>	<b>-</b>	<b>4.44</b>	<b>37.33</b>	<b>-</b>	<b>-</b>	<b>3.02</b>	<b>49.70</b>	<b>-</b>	<b>0.06</b>	<b>127.54</b>
CHP plants	32.90	-	3.40	30.75	-	-	-	32.64	-	-	99.69
Heat plants	0.09	-	1.04	6.58	-	-	3.02	17.06	-	0.06	27.85

\* Includes crude oil, NGL, refinery feedstocks, additives and other hydrocarbons.

## Denmark : 2009

Million tonnes of oil equivalent											
<b>SUPPLY AND CONSUMPTION</b>	Coal & peat	Crude oil*	Oil products	Natural gas	Nuclear	Hydro	Geotherm. solar etc.	Biofuels & waste	Electricity	Heat	Total
Production	-	13.25	-	7.53	-	0.00	0.60	2.53	-	0.00	23.91
Imports	3.97	3.61	5.37	-	-	-	-	0.56	0.96	0.00	14.47
Exports	-0.04	-9.08	-4.50	-3.58	-	-	-	-0.07	-0.94	-	-18.21
Intl. marine bunkers	-	-	-0.51	-	-	-	-	-	-	-	-0.51
Intl. aviation bunkers	-	-	-0.78	-	-	-	-	-	-	-	-0.78
Stock changes	0.08	-0.03	-0.29	-0.05	-	-	-	-	-	-	-0.28
<b>TPES</b>	<b>4.01</b>	<b>7.75</b>	<b>-0.71</b>	<b>3.90</b>	<b>-</b>	<b>0.00</b>	<b>0.60</b>	<b>3.02</b>	<b>0.03</b>	<b>0.00</b>	<b>18.61</b>
Transfers	-	-	-0.00	-	-	-	-	-	-	-	-0.00
Statistical differences	0.02	0.27	-0.11	0.05	-	-	0.00	-0.00	-0.00	-0.00	0.22
Electricity plants	-	-	-0.02	-	-	-0.00	-0.58	-0.00	0.58	-	-0.02
CHP plants	-3.90	-	-0.29	-1.54	-	-	-	-1.45	2.54	2.41	-2.23
Heat plants	-0.00	-	-0.05	-0.21	-	-	-0.01	-0.44	-0.00	0.71	0.01
Blast furnaces	-	-	-	-	-	-	-	-	-	-	-
Gas works	0.01	-	-	-0.01	-	-	-	-	-	-	-0.00
Coke/pat. fuel/BKB plants	-	-	-	-	-	-	-	-	-	-	-
Oil refineries	-	-8.02	7.71	-	-	-	-	-	-	-	-0.31
Petrochemical plants	-	-	-	-	-	-	-	-	-	-	-
Liquefaction plants	-	-	-	-	-	-	-	-	-	-	-
Other transformation	-	-	-	-	-	-	-	-	-	-	-
Energy industry own use	-	-	-0.32	-0.64	-	-	-	-	-0.25	-0.04	-1.24
Losses	-0.00	-	-	-0.00	-	-	-	-	-0.19	-0.62	-0.81
<b>TFC</b>	<b>0.14</b>	<b>-</b>	<b>6.22</b>	<b>1.55</b>	<b>-</b>	<b>-</b>	<b>0.01</b>	<b>1.13</b>	<b>2.72</b>	<b>2.47</b>	<b>14.22</b>
<b>INDUSTRY</b>	<b>0.10</b>	<b>-</b>	<b>0.55</b>	<b>0.66</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.15</b>	<b>0.73</b>	<b>0.14</b>	<b>2.33</b>
Iron and steel	-	-	0.00	0.03	-	-	-	-	0.02	0.00	0.06
Chemical and petrochem.	-	-	0.01	0.05	-	-	-	0.00	0.09	0.02	0.17
Non-ferrous metals	-	-	0.00	0.00	-	-	-	-	0.01	0.00	0.01
Non-metallic minerals	0.08	-	0.18	0.11	-	-	-	0.02	0.07	0.01	0.48
Transport equipment	-	-	0.01	0.01	-	-	-	0.00	0.02	0.00	0.05
Machinery	0.00	-	0.05	0.07	-	-	-	0.00	0.13	0.03	0.28
Mining and quarrying	0.00	-	0.02	0.04	-	-	-	0.00	0.01	0.00	0.07
Food and tobacco	0.02	-	0.10	0.24	-	-	-	0.01	0.17	0.04	0.58
Paper, pulp and printing	0.00	-	0.01	0.04	-	-	-	0.00	0.06	0.01	0.12
Wood and wood products	-	-	0.01	0.01	-	-	-	0.07	0.02	0.00	0.11
Construction	-	-	0.13	0.01	-	-	-	-	0.03	-	0.17
Textile and leather	-	-	0.00	0.01	-	-	-	-	0.01	0.00	0.02
Non-specified	-	-	0.02	0.04	-	-	-	0.05	0.09	0.02	0.21
<b>TRANSPORT</b>	<b>-</b>	<b>-</b>	<b>4.36</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.01</b>	<b>0.03</b>	<b>-</b>	<b>4.41</b>
Domestic aviation	-	-	0.03	-	-	-	-	-	-	-	0.03
Road	-	-	4.01	-	-	-	-	0.01	-	-	4.02
Rail	-	-	0.07	-	-	-	-	-	0.03	-	0.11
Pipeline transport	-	-	-	-	-	-	-	-	-	-	-
Domestic navigation	-	-	0.19	-	-	-	-	-	-	-	0.19
Non-specified	-	-	0.05	-	-	-	-	-	-	-	0.05
<b>OTHER</b>	<b>0.04</b>	<b>-</b>	<b>1.05</b>	<b>0.89</b>	<b>-</b>	<b>-</b>	<b>0.01</b>	<b>0.97</b>	<b>1.95</b>	<b>2.32</b>	<b>7.24</b>
Residential	0.01	-	0.46	0.63	-	-	0.01	0.87	0.87	1.56	4.40
Comm. and public services	0.00	-	0.07	0.21	-	-	0.00	0.05	0.92	0.72	1.97
Agriculture/forestry	0.03	-	0.37	0.04	-	-	-	0.06	0.16	0.05	0.71
Fishing	-	-	0.14	-	-	-	-	-	-	-	0.14
Non-specified	-	-	-	0.01	-	-	-	-	-	-	0.01
<b>NON-ENERGY USE</b>	<b>-</b>	<b>-</b>	<b>0.25</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.25</b>
in industry/transf./energy	-	-	0.21	-	-	-	-	-	-	-	0.21
of which: feedstocks	-	-	-	-	-	-	-	-	-	-	-
in transport	-	-	0.03	-	-	-	-	-	-	-	0.03
in other	-	-	0.01	-	-	-	-	-	-	-	0.01
<b>Electricity and Heat Output</b>											
<b>Elec. generated - TWh</b>	<b>17.69</b>	<b>-</b>	<b>1.18</b>	<b>6.73</b>	<b>-</b>	<b>0.02</b>	<b>6.73</b>	<b>4.02</b>	<b>-</b>	<b>-</b>	<b>36.36</b>
Electricity plants	-	-	0.06	-	-	0.02	6.73	0.00	-	-	6.80
CHP plants	17.69	-	1.12	6.73	-	-	-	4.02	-	-	29.56
<b>Heat generated - PJ</b>	<b>34.14</b>	<b>-</b>	<b>5.91</b>	<b>36.04</b>	<b>-</b>	<b>-</b>	<b>2.91</b>	<b>51.60</b>	<b>-</b>	<b>0.06</b>	<b>130.66</b>
CHP plants	34.05	-	4.60	27.41	-	-	-	34.75	-	-	100.81
Heat plants	0.09	-	1.32	8.62	-	-	2.91	16.84	-	0.06	29.85

\* Includes crude oil, NGL, refinery feedstocks, additives and other hydrocarbons.

## Denmark

## Estimated energy supply balance for 2010

Million tonnes of oil equivalent											
SUPPLY	Coal & peat	Crude oil*	Oil products	Natural gas	Nuclear	Hydro	Geotherm. solar etc.	Biofuels & waste	Electricity	Heat	Total
Production	-	12.48	-	7.30	-	0.00	0.70	2.73	-	0.00	23.21
Imports	2.71	2.79	6.50	0.14	-	-	-	0.72	0.91	0.00	13.77
Exports	-0.04	-7.99	-4.90	-3.16	-	-	-	-0.07	-1.01	-	-17.18
Intl. marine bunkers	-	-	-0.59	-	-	-	-	-	-	-	-0.59
Intl. aviation bunkers	-	-	-0.83	-	-	-	-	-	-	-	-0.83
Stock changes	1.18	0.07	-0.05	0.10	-	-	-	-	-	-	1.30
<b>TPES</b>	<b>3.84</b>	<b>7.34</b>	<b>0.14</b>	<b>4.38</b>	<b>-</b>	<b>0.00</b>	<b>0.70</b>	<b>3.37</b>	<b>-0.10</b>	<b>0.00</b>	<b>19.68</b>
Electricity and Heat Output											
Elec. generated - TWh	16.94	-	0.84	7.86	-	0.02	7.81	5.09	-	-	38.57
Heat generated - PJ	33.80	-	4.73	38.80	-	-	2.96	54.19	-	0.06	134.54

\* Includes crude oil, NGL, refinery feedstocks, additives and other hydrocarbons.

## Key indicators

	1960	1971	1980	1990	2000	2008	2009	2010e
Energy production (Mtoe)	1.0	0.3	1.0	10.1	27.7	26.6	23.9	23.2
Net imports (Mtoe)	8.6	19.9	19.2	8.7	-7.5	-4.6	-3.7	-3.4
Total primary energy supply (Mtoe)	8.8	18.5	19.1	17.4	18.6	19.2	18.6	19.7
Net oil imports (Mtoe)	5.2	18.7	13.2	2.8	-8.5	-4.6	-4.6	-3.6
Oil supply (Mtoe)	4.7	16.9	12.7	7.7	8.0	7.4	7.0	7.5
Electricity consumption (TWh)*	5.0	15.2	23.6	30.6	34.6	36.1	34.5	35.2
GDP (billion 2000 USD)	50.4 e	83.2	100.9	123.9	160.1	177.0	167.7	171.2
GDP PPP (billion 2000 USD)	48.5 e	80.0	97.0	119.1	153.9	170.1	161.2	164.6
Population (millions)	4.59 e	4.96	5.12	5.14	5.34	5.49	5.52	5.53
Industrial production index (2005=100)	..	..	54.70	72.10	96.50	101.00	85.80	87.30
Total self-sufficiency**	0.1130	0.0178	0.0498	0.5806	1.4884	1.3854	1.2853	1.1790
Coal and peat self-sufficiency**	0.2415	..	-	-	-	-	-	-
Oil self-sufficiency**	..	..	0.0239	0.7993	2.2782	1.9555	1.8825	1.6675
Natural gas self-sufficiency**	..	..	1.0000	1.5239	1.6659	2.2118	1.9289	1.6667
TPES/GDP (toe per thousand 2000 USD)	0.1746 e	0.2224	0.1897	0.1402	0.1164	0.1086	0.1109	0.1149
TPES/GDP PPP (toe per thousand 2000 USD)	0.1817 e	0.2314	0.1974	0.1458	0.1211	0.1130	0.1154	0.1196
TPES/population (toe per capita)	1.9186 e	3.7286	3.7344	3.3781	3.4908	3.4990	3.3693	3.5586
Net oil imports/GDP (toe per thousand 2000 USD)	0.1027 e	0.2244	0.1313	0.0222	-0.0530	-0.0257	-0.0275	-0.0210
Oil supply/GDP (toe per thousand 2000 USD)	0.0929 e	0.2030	0.1261	0.0617	0.0501	0.0417	0.0420	0.0437
Oil supply/population (toe per capita)	1.0206 e	3.4048	2.4817	1.4880	1.5016	1.3422	1.2748	1.3526
Elect. cons./GDP (kWh per 2000 USD)	0.0989 e	0.1825	0.2336	0.2467	0.2162	0.2037	0.2057	0.2058
Elect. cons./population (kWh per capita)	1087 e	3059	4598	5946	6485	6564	6248	6371
Industry cons.***/industrial production (2005=100)	..	..	209.88	132.00	106.33	92.95	95.48	..
Industry oil cons.***/industrial production (2005=100)	..	..	458.25	162.82	103.15	85.22	88.40	..

\* Electricity consumption equals domestic supply less losses.

\*\* Production divided by TPES.

\*\*\* Includes non-energy use.

Denmark

Figure 1. Energy production

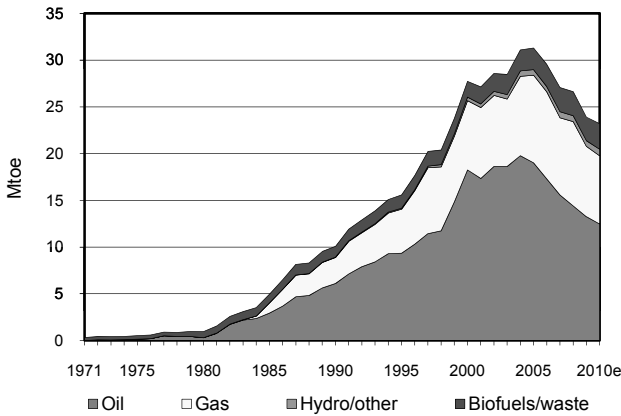


Figure 2. Total primary energy supply\*

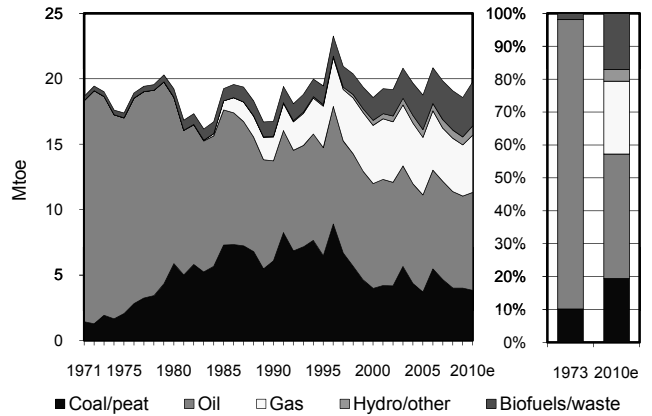


Figure 3. Energy self-sufficiency

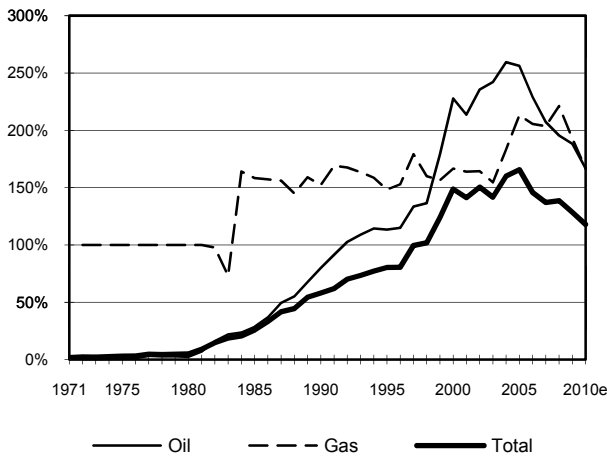


Figure 4. Breakdown of sectorial final consumption by source in 1973 and 2009\*\*

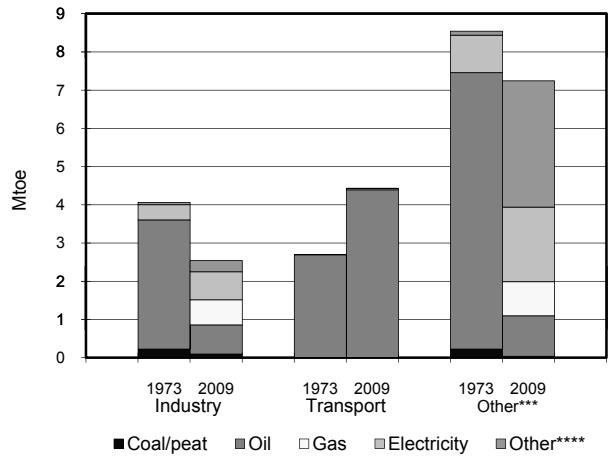


Figure 5. Electricity generation by fuel

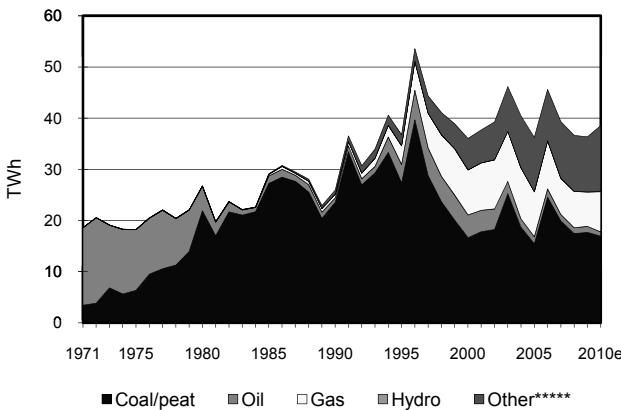
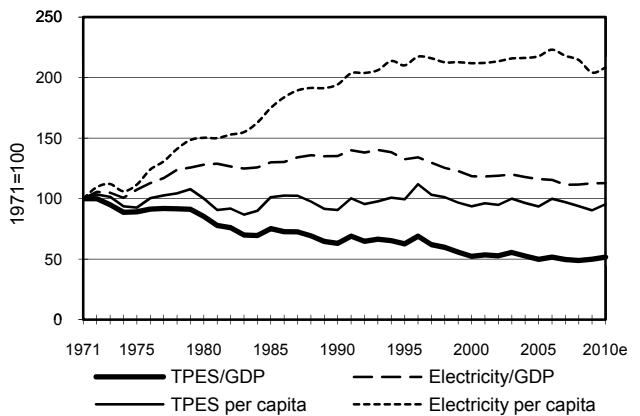


Figure 6. Selected indicators



\* Excluding electricity trade.

\*\* Includes non-energy use.

\*\*\* Includes residential, commercial and public services, agriculture/forestry, fishing and non-specified.

\*\*\*\* Includes biofuels and waste, direct use of geothermal/solar thermal and heat produced in CHP/heat plants.

\*\*\*\*\* Includes geothermal, solar, wind, biofuels and waste, etc.

## Estonia : 2008

Million tonnes of oil equivalent											
<b>SUPPLY AND CONSUMPTION</b>	Coal & peat	Crude oil*	Oil products	Natural gas	Nuclear	Hydro	Geotherm. solar etc.	Biofuels & waste	Electricity	Heat	Total
Production	3.47	-	-	-	-	0.00	0.01	0.74	-	-	4.23
Imports	0.09	-	1.16	0.77	-	-	-	-	0.12	-	2.14
Exports	-0.06	-0.27	-	-	-	-	-	-0.10	-0.20	-	-0.64
Intl. marine bunkers	-	-	-0.25	-	-	-	-	-	-	-	-0.25
Intl. aviation bunkers	-	-	-0.03	-	-	-	-	-	-	-	-0.03
Stock changes	-0.05	-	0.04	-	-	-	-	-0.01	-	-	-0.01
<b>TPES</b>	<b>3.45</b>	<b>-0.27</b>	<b>0.93</b>	<b>0.77</b>	<b>-</b>	<b>0.00</b>	<b>0.01</b>	<b>0.63</b>	<b>-0.08</b>	<b>-</b>	<b>5.44</b>
Transfers	-	-0.14	0.15	-	-	-	-	-	-	-	0.01
Statistical differences	0.23	-	-0.00	-	-	-	-	-	-	-	0.23
Electricity plants	-2.49	-	-0.01	-	-	-0.00	-0.01	-0.00	0.83	-	-1.68
CHP plants	-0.25	-	-0.00	-0.10	-	-	-	-0.01	0.08	0.17	-0.11
Heat plants	-0.05	-	-0.05	-0.31	-	-	-	-0.09	-	0.43	-0.07
Blast furnaces	-	-	-	-	-	-	-	-	-	-	-
Gas works	-0.11	-	-	-	-	-	-	-	-	-	-0.11
Coke/pat. fuel/BKB plants	-0.02	-	-	-	-	-	-	-	-	-	-0.02
Oil refineries	-	-	-	-	-	-	-	-	-	-	-
Petrochemical plants	-	-	-	-	-	-	-	-	-	-	-
Liquefaction plants	-0.54	0.41	-	-	-	-	-	-	-	-	-0.13
Other transformation	-	-	-	-	-	-	-	-	-	-	-
Energy industry own use	-0.02	-	-0.01	-0.01	-	-	-	-0.00	-0.13	-0.01	-0.19
Losses	-	-	-	-	-	-	-	-	-0.10	-0.08	-0.18
<b>TFC</b>	<b>0.19</b>	<b>-</b>	<b>1.00</b>	<b>0.35</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.53</b>	<b>0.60</b>	<b>0.51</b>	<b>3.18</b>
<b>INDUSTRY</b>	<b>0.17</b>	<b>-</b>	<b>0.07</b>	<b>0.14</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.12</b>	<b>0.20</b>	<b>0.05</b>	<b>0.76</b>
Iron and steel	-	-	-	-	-	-	-	-	0.00	0.00	0.00
Chemical and petrochem.	0.02	-	0.00	0.04	-	-	-	0.00	0.03	0.02	0.11
Non-ferrous metals	-	-	-	0.00	-	-	-	-	0.00	-	0.00
Non-metallic minerals	0.15	-	0.01	0.02	-	-	-	0.00	0.02	0.00	0.20
Transport equipment	-	-	0.00	0.00	-	-	-	0.00	0.00	0.00	0.01
Machinery	-	-	0.00	0.01	-	-	-	0.00	0.02	0.00	0.04
Mining and quarrying	-	-	0.01	0.01	-	-	-	-	0.00	0.00	0.01
Food and tobacco	-	-	0.01	0.02	-	-	-	0.00	0.03	0.01	0.07
Paper, pulp and printing	-	-	0.00	0.02	-	-	-	0.00	0.03	0.00	0.05
Wood and wood products	-	-	0.00	0.01	-	-	-	0.09	0.02	0.00	0.13
Construction	-	-	0.03	0.00	-	-	-	0.00	0.01	0.00	0.04
Textile and leather	-	-	0.00	0.00	-	-	-	0.00	0.01	0.01	0.03
Non-specified	-	-	0.00	0.00	-	-	-	0.02	0.02	0.01	0.06
<b>TRANSPORT</b>	<b>-</b>	<b>-</b>	<b>0.78</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.01</b>	<b>-</b>	<b>0.79</b>
Domestic aviation	-	-	0.00	-	-	-	-	-	-	-	0.00
Road	-	-	0.73	-	-	-	-	-	-	-	0.73
Rail	-	-	0.03	-	-	-	-	-	0.00	-	0.03
Pipeline transport	-	-	-	-	-	-	-	-	-	-	-
Domestic navigation	-	-	0.02	-	-	-	-	-	-	-	0.02
Non-specified	-	-	-	-	-	-	-	-	0.01	-	0.01
<b>OTHER</b>	<b>0.01</b>	<b>-</b>	<b>0.11</b>	<b>0.09</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.41</b>	<b>0.39</b>	<b>0.45</b>	<b>1.48</b>
Residential	0.01	-	0.01	0.05	-	-	-	0.39	0.16	0.33	0.95
Comm. and public services	0.00	-	0.04	0.03	-	-	-	0.02	0.22	0.12	0.43
Agriculture/forestry	-	-	0.07	0.01	-	-	-	0.00	0.02	0.00	0.10
Fishing	-	-	-	-	-	-	-	-	0.00	-	0.00
Non-specified	-	-	-	-	-	-	-	-	-	-	-
<b>NON-ENERGY USE</b>	<b>0.00</b>	<b>-</b>	<b>0.04</b>	<b>0.12</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.16</b>
in industry/transf./energy	0.00	-	0.04	0.12	-	-	-	-	-	-	0.16
<i>of which: feedstocks</i>	-	-	-	0.12	-	-	-	-	-	-	0.12
in transport	-	-	0.00	-	-	-	-	-	-	-	0.00
in other	-	-	0.00	-	-	-	-	-	-	-	0.00
<b>Electricity and Heat Output</b>											
<b>Elec. generated - TWh</b>	<b>9.92</b>	<b>-</b>	<b>0.04</b>	<b>0.42</b>	<b>-</b>	<b>0.03</b>	<b>0.13</b>	<b>0.04</b>	<b>-</b>	<b>-</b>	<b>10.58</b>
Electricity plants	9.47	-	0.03	-	-	0.03	0.13	0.00	-	-	9.67
CHP plants	0.46	-	0.00	0.42	-	-	-	0.03	-	-	0.92
<b>Heat generated - PJ</b>	<b>6.32</b>	<b>-</b>	<b>1.59</b>	<b>13.91</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>3.32</b>	<b>-</b>	<b>-</b>	<b>25.15</b>
CHP plants	4.90	-	0.04	2.26	-	-	-	0.03	-	-	7.23
Heat plants	1.42	-	1.55	11.66	-	-	-	3.28	-	-	17.91

\* Includes crude oil, NGL, refinery feedstocks, additives and other hydrocarbons.

## Estonia : 2009

Million tonnes of oil equivalent											
SUPPLY AND CONSUMPTION	Coal & peat	Crude oil*	Oil products	Natural gas	Nuclear	Hydro	Geotherm. solar etc.	Biofuels & waste	Electricity	Heat	Total
Production	3.29	-	-	-	-	0.00	0.02	0.84	-	-	4.16
Imports	0.02	-	1.18	0.52	-	-	-	-	0.26	-	1.99
Exports	-0.03	-0.37	-	-	-	-	-	-0.14	-0.25	-	-0.79
Intl. marine bunkers	-	-	-0.22	-	-	-	-	-	-	-	-0.22
Intl. aviation bunkers	-	-	-0.03	-	-	-	-	-	-	-	-0.03
Stock changes	-0.29	-	-0.06	-	-	-	-	-0.01	-	-	-0.35
<b>TPES</b>	<b>3.00</b>	<b>-0.37</b>	<b>0.87</b>	<b>0.52</b>	<b>-</b>	<b>0.00</b>	<b>0.02</b>	<b>0.70</b>	<b>0.01</b>	<b>-</b>	<b>4.75</b>
Transfers	-	-0.09	0.09	-	-	-	-	-	-	-	0.00
Statistical differences	0.32	-0.00	-	-	-	-	-	-	-	-	0.32
Electricity plants	-2.11	-	-0.01	-	-	-0.00	-0.02	-0.01	0.69	-	-1.46
CHP plants	-0.22	-	-0.00	-0.09	-	-	-	-0.07	0.07	0.23	-0.07
Heat plants	-0.04	-	-0.05	-0.23	-	-	-	-0.10	-	0.36	-0.06
Blast furnaces	-	-	-	-	-	-	-	-	-	-	-
Gas works	-0.10	-	-	-	-	-	-	-	-	-	-0.10
Coke/pat. fuel/BKB plants	-0.01	-	-	-	-	-	-	-	-	-	-0.01
Oil refineries	-	-	-	-	-	-	-	-	-	-	-
Petrochemical plants	-	-	-	-	-	-	-	-	-	-	-
Liquefaction plants	-0.71	0.46	-	-	-	-	-	-	-	-	-0.26
Other transformation	-	-	-	-	-	-	-	-	-	-	-
Energy industry own use	-0.02	-	-0.01	-0.01	-	-	-	-0.00	-0.11	-0.01	-0.17
Losses	-	-	-	-	-	-	-	-	-0.08	-0.09	-0.16
<b>TFC</b>	<b>0.11</b>	<b>-</b>	<b>0.89</b>	<b>0.20</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.52</b>	<b>0.57</b>	<b>0.49</b>	<b>2.78</b>
<b>INDUSTRY</b>	<b>0.09</b>	<b>-</b>	<b>0.05</b>	<b>0.10</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.09</b>	<b>0.17</b>	<b>0.04</b>	<b>0.54</b>
Iron and steel	-	-	-	0.00	-	-	-	-	0.00	-	0.00
Chemical and petrochem.	-	-	0.00	0.01	-	-	-	0.00	0.03	0.01	0.05
Non-ferrous metals	0.00	-	-	0.00	-	-	-	-	0.00	0.00	0.00
Non-metallic minerals	0.09	-	0.00	0.02	-	-	-	0.00	0.02	0.00	0.13
Transport equipment	-	-	0.00	0.00	-	-	-	0.00	0.00	0.00	0.01
Machinery	-	-	0.01	0.00	-	-	-	0.00	0.02	0.00	0.04
Mining and quarrying	-	-	0.00	0.00	-	-	-	0.00	0.00	0.00	0.01
Food and tobacco	-	-	0.01	0.02	-	-	-	0.00	0.02	0.00	0.06
Paper, pulp and printing	-	-	0.00	0.02	-	-	-	0.00	0.02	0.00	0.05
Wood and wood products	-	-	0.00	0.01	-	-	-	0.06	0.02	0.00	0.09
Construction	-	-	0.02	0.00	-	-	-	0.00	0.01	0.00	0.04
Textile and leather	-	-	0.00	0.00	-	-	-	0.00	0.01	0.01	0.02
Non-specified	-	-	0.00	0.00	-	-	-	0.02	0.01	0.01	0.04
<b>TRANSPORT</b>	<b>-</b>	<b>-</b>	<b>0.71</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.01</b>	<b>-</b>	<b>0.71</b>
Domestic aviation	-	-	0.00	-	-	-	-	-	-	-	0.00
Road	-	-	0.66	-	-	-	-	-	-	-	0.66
Rail	-	-	0.04	-	-	-	-	-	0.00	-	0.04
Pipeline transport	-	-	-	-	-	-	-	-	-	-	-
Domestic navigation	-	-	0.01	-	-	-	-	-	-	-	0.01
Non-specified	-	-	-	-	-	-	-	-	0.00	-	0.00
<b>OTHER</b>	<b>0.01</b>	<b>-</b>	<b>0.11</b>	<b>0.09</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.43</b>	<b>0.40</b>	<b>0.45</b>	<b>1.48</b>
Residential	0.01	-	0.01	0.05	-	-	-	0.41	0.16	0.33	0.97
Comm. and public services	0.00	-	0.03	0.03	-	-	-	0.01	0.22	0.12	0.42
Agriculture/forestry	-	-	0.06	0.01	-	-	-	0.00	0.02	0.00	0.09
Fishing	-	-	-	-	-	-	-	-	0.00	-	0.00
Non-specified	-	-	-	-	-	-	-	-	-	-	-
<b>NON-ENERGY USE</b>	<b>0.01</b>	<b>-</b>	<b>0.02</b>	<b>0.01</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.05</b>
in industry/transf./energy	0.01	-	0.02	0.01	-	-	-	-	-	-	0.04
<i>of which: feedstocks</i>	-	-	-	0.01	-	-	-	-	-	-	0.01
in transport	-	-	0.00	-	-	-	-	-	-	-	0.00
in other	-	-	0.00	-	-	-	-	-	-	-	0.00
<b>Electricity and Heat Output</b>											
<b>Elec. generated - TWh</b>	<b>8.09</b>	<b>-</b>	<b>0.05</b>	<b>0.11</b>	<b>-</b>	<b>0.03</b>	<b>0.20</b>	<b>0.31</b>	<b>-</b>	<b>-</b>	<b>8.78</b>
Electricity plants	7.62	-	0.04	-	-	0.03	0.20	0.11	-	-	8.00
CHP plants	0.47	-	0.00	0.11	-	-	-	0.21	-	-	0.78
<b>Heat generated - PJ</b>	<b>6.51</b>	<b>-</b>	<b>1.64</b>	<b>11.25</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>5.32</b>	<b>-</b>	<b>-</b>	<b>24.73</b>
CHP plants	5.07	-	0.03	2.86	-	-	-	1.86	-	-	9.81
Heat plants	1.44	-	1.62	8.40	-	-	-	3.47	-	-	14.92

\* Includes crude oil, NGL, refinery feedstocks, additives and other hydrocarbons.



## Estonia

## Estimated energy supply balance for 2010

Million tonnes of oil equivalent											
SUPPLY	Coal & peat	Crude oil*	Oil products	Natural gas	Nuclear	Hydro	Geotherm. solar etc.	Biofuels & waste	Electricity	Heat	Total
Production	3.95	-	-	-	-	0.00	0.02	0.93	-	-	4.90
Imports	0.05	-	1.10	0.56	-	-	-	-	0.09	-	1.81
Exports	-0.06	-0.40	-	-	-	-	-	-0.15	-0.37	-	-0.99
Intl. marine bunkers	-	-	-0.23	-	-	-	-	-	-	-	-0.23
Intl. aviation bunkers	-	-	-0.03	-	-	-	-	-	-	-	-0.03
Stock changes	-0.00	-	0.04	-	-	-	-	-0.01	-	-	0.03
<b>TPES</b>	<b>3.92</b>	<b>-0.40</b>	<b>0.88</b>	<b>0.56</b>	<b>-</b>	<b>0.00</b>	<b>0.02</b>	<b>0.76</b>	<b>-0.28</b>	<b>-</b>	<b>5.47</b>
Electricity and Heat Output											
Elec. generated - TWh	11.57	-	0.04	0.30	-	0.03	0.28	0.74	-	-	12.96
Heat generated - PJ	7.32	-	1.51	10.66	-	-	-	6.07	-	-	25.55

\* Includes crude oil, NGL, refinery feedstocks, additives and other hydrocarbons.

## Key indicators

	1960	1971	1980	1990	2000	2008	2009	2010e
Energy production (Mtoe)	..	..	..	5.4	3.2	4.2	4.2	4.9
Net imports (Mtoe)	..	..	..	4.6	1.6	1.5	1.2	0.8
Total primary energy supply (Mtoe)	..	..	..	9.9	4.7	5.4	4.8	5.5
Net oil imports (Mtoe)	..	..	..	3.3	0.8	0.9	0.8	0.7
Oil supply (Mtoe)	..	..	..	3.0	0.7	0.7	0.5	0.5
Electricity consumption (TWh)*	..	..	..	9.2	6.3	8.5	8.0	8.8
GDP (billion 2000 USD)	..	..	..	5.9	5.7	9.3	8.0	8.3
GDP PPP (billion 2000 USD)	..	..	..	13.9	13.5	22.2	19.2	19.8
Population (millions)	..	..	..	1.59	1.37	1.34	1.34	1.34
Industrial production index (2005=100)	..	..	..	..	62.30	111.00	84.30	101.90
Total self-sufficiency**	..	..	..	0.5463	0.6747	0.7767	0.8754	0.8949
Coal and peat self-sufficiency**	..	..	..	0.8517	0.8980	1.0073	1.0980	1.0054
Oil self-sufficiency**	..	..	..	-	-	-	-	-
Natural gas self-sufficiency**	..	..	..	-	-	-	-	-
TPES/GDP (toe per thousand 2000 USD)	..	..	..	1.6947	0.8300	0.5827	0.5907	0.6602
TPES/GDP PPP (toe per thousand 2000 USD)	..	..	..	0.7114	0.3484	0.2446	0.2479	0.2772
TPES/population (toe per capita)	..	..	..	6.2411	3.4363	4.0569	3.5436	4.0872
Net oil imports/GDP (toe per thousand 2000 USD)	..	..	..	0.5607	0.1385	0.0954	0.1008	0.0844
Oil supply/GDP (toe per thousand 2000 USD)	..	..	..	0.5072	0.1141	0.0707	0.0623	0.0580
Oil supply/population (toe per capita)	..	..	..	1.8678	0.4722	0.4921	0.3736	0.3588
Elect. cons./GDP (kWh per 2000 USD)	..	..	..	1.5805	1.1160	0.9114	0.9920	1.0645
Elect. cons./population (kWh per capita)	..	..	..	5821	4620	6346	5952	6590
Industry cons.***/industrial production (2005=100)	..	..	..	..	133.37	91.47	76.95	..
Industry oil cons.***/industrial production (2005=100)	..	..	..	..	161.90	71.59	64.46	..

\* Electricity consumption equals domestic supply less losses.

\*\* Production divided by TPES.

\*\*\* Includes non-energy use.

## Estonia

Figure 1. Energy production

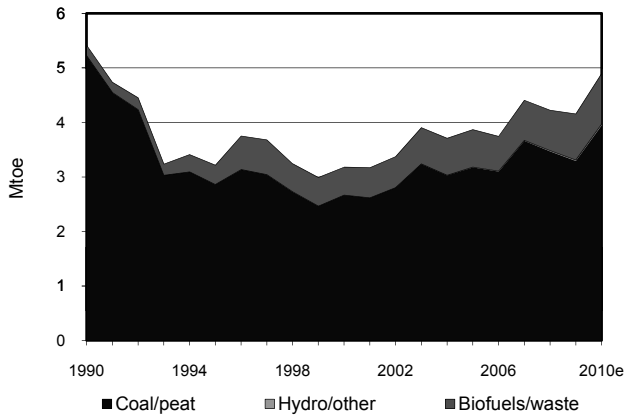


Figure 2. Total primary energy supply\*

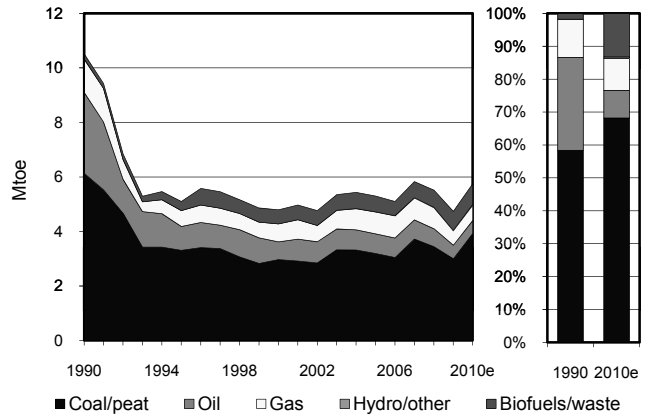


Figure 3. Energy self-sufficiency

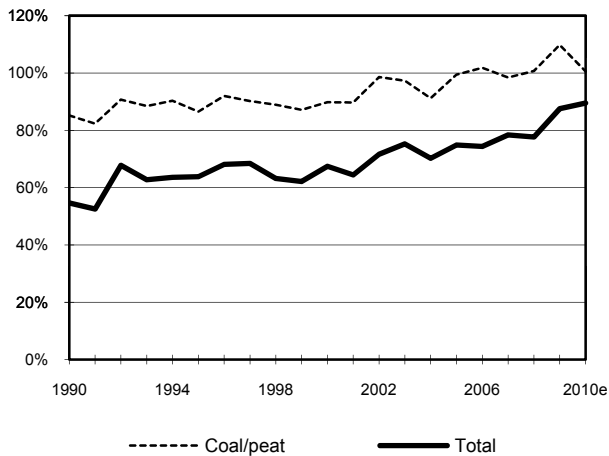


Figure 4. Breakdown of sectorial final consumption by source in 1990 and 2009\*\*

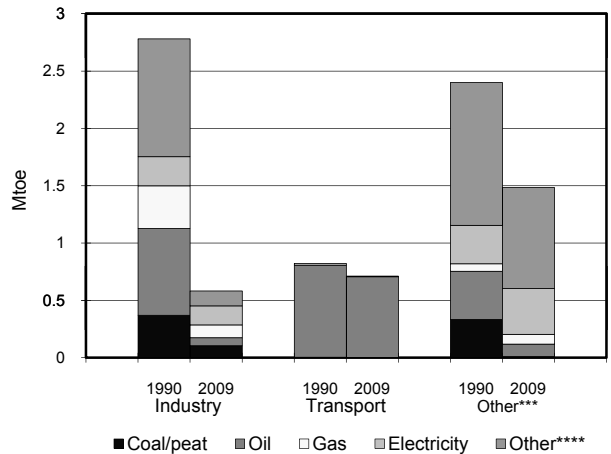


Figure 5. Electricity generation by fuel

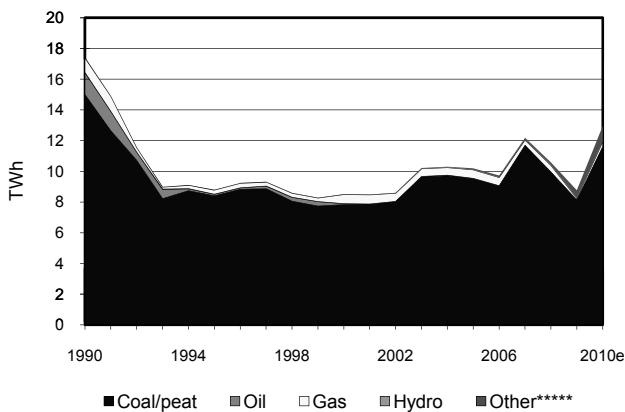
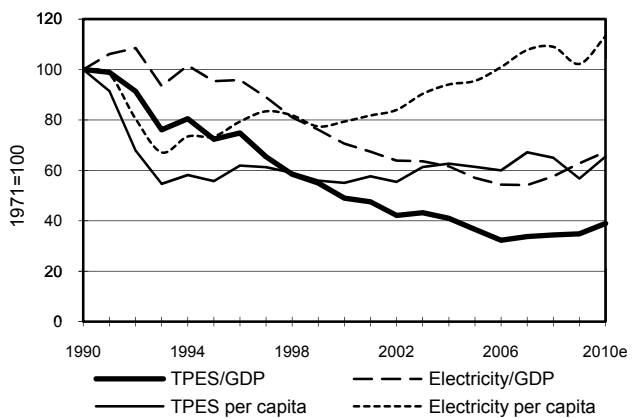


Figure 6. Selected indicators



\* Excluding electricity trade.

\*\* Includes non-energy use.

\*\*\* Includes residential, commercial and public services, agriculture/forestry, fishing and non-specified.

\*\*\*\* Includes biofuels and waste, direct use of geothermal/solar thermal and heat produced in CHP/heat plants.

\*\*\*\*\* Includes geothermal, solar, wind, biofuels and waste, etc.

## Finland : 2008

Million tonnes of oil equivalent											
<b>SUPPLY AND CONSUMPTION</b>	Coal & peat	Crude oil*	Oil products	Natural gas	Nuclear	Hydro	Geotherm. solar etc.	Biofuels & waste	Electricity	Heat	Total
Production	1.05	0.08	-	-	5.98	1.47	0.02	7.79	-	0.12	16.51
Imports	3.94	12.16	5.64	3.85	-	-	-	0.07	1.39	-	27.05
Exports	-0.01	-	-6.72	-	-	-	-	-0.17	-0.29	-	-7.18
Intl. marine bunkers	-	-	-0.40	-	-	-	-	-	-	-	-0.40
Intl. aviation bunkers	-	-	-0.58	-	-	-	-	-	-	-	-0.58
Stock changes	0.30	-0.20	-0.21	-	-	-	-	-	-	-	-0.12
<b>TPES</b>	<b>5.29</b>	<b>12.04</b>	<b>-2.28</b>	<b>3.85</b>	<b>5.98</b>	<b>1.47</b>	<b>0.02</b>	<b>7.69</b>	<b>1.10</b>	<b>0.12</b>	<b>35.28</b>
Transfers	-	2.62	-2.62	-	-	-	-	-	-	-	-0.00
Statistical differences	0.11	0.30	-0.74	-0.00	-	-	-	0.01	-	-	-0.32
Electricity plants	-1.52	-	-0.04	-0.08	-5.98	-1.47	-0.02	-0.39	4.31	-0.06	-5.26
CHP plants	-2.26	-	-0.09	-1.99	-	-	-	-2.28	2.35	3.31	-0.97
Heat plants	-0.18	-	-0.24	-0.30	-	-	-	-0.31	-0.01	1.09	0.06
Blast furnaces	-0.35 e	-	-0.28	-	-	-	-	-	-	-	-0.64
Gas works	-	-	-	-	-	-	-	-	-	-	-
Coke/pat. fuel/BKB plants	-0.11	-	-	-	-	-	-	-	-	-	-0.11
Oil refineries	-	-15.14	15.38	-	-	-	-	-	-	-	0.24
Petrochemical plants	-	0.18	-0.20	-	-	-	-	-	-	-	-0.02
Liquefaction plants	-	-	-	-	-	-	-	-	-	-	-
Other transformation	-	-	-	-	-	-	-	-	-	-	-
Energy industry own use	-0.17	-	-0.59	-0.38	-	-	-	-	-0.36	-0.00	-1.51
Losses	-0.03	-	-	-	-	-	-	-	-0.29	-0.26	-0.58
<b>TFC</b>	<b>0.77</b>	<b>-</b>	<b>8.30</b>	<b>1.10</b>	<b>-</b>	<b>-</b>	<b>0.00</b>	<b>4.72</b>	<b>7.10</b>	<b>4.19</b>	<b>26.19</b>
<b>INDUSTRY</b>	<b>0.74</b>	<b>-</b>	<b>1.35</b>	<b>0.75</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>3.33</b>	<b>3.72</b>	<b>1.89</b>	<b>11.78</b>
Iron and steel	0.33 e	-	0.11	0.05	-	-	-	-	0.28	0.04	0.82
Chemical and petrochem.	0.02	-	0.34	0.04	-	-	-	0.01	0.41	0.35	1.17
Non-ferrous metals	0.00	-	0.01	0.00	-	-	-	0.00	0.16	0.03	0.21
Non-metallic minerals	0.13	-	0.10	0.07	-	-	-	0.00	0.09	0.02	0.41
Transport equipment	-	-	0.02	0.00	-	-	-	-	0.03	0.02	0.07
Machinery	-	-	0.01	0.01	-	-	-	0.00	0.20	0.10	0.32
Mining and quarrying	-	-	0.01	-	-	-	-	-	0.07	0.01	0.08
Food and tobacco	0.01	-	0.03	0.03	-	-	-	0.00	0.13	0.17	0.36
Paper, pulp and printing	0.24	-	0.21	0.54	-	-	-	3.09	2.03	0.81	6.91
Wood and wood products	0.00	-	0.02	0.00	-	-	-	0.08	0.14	0.29	0.53
Construction	-	-	0.34	-	-	-	-	-	0.03	-	0.36
Textile and leather	-	-	0.02	0.01	-	-	-	-	0.01	0.01	0.05
Non-specified	-	-	0.13	-	-	-	-	0.15	0.14	0.05	0.47
<b>TRANSPORT</b>	<b>-</b>	<b>-</b>	<b>4.28</b>	<b>0.01</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.07</b>	<b>0.06</b>	<b>-</b>	<b>4.43</b>
Domestic aviation	-	-	0.14	-	-	-	-	-	-	-	0.14
Road	-	-	3.94	0.00	-	-	-	0.07	-	-	4.02
Rail	-	-	0.04	-	-	-	-	-	0.06	-	0.09
Pipeline transport	-	-	-	0.01	-	-	-	-	-	-	0.01
Domestic navigation	-	-	0.16	-	-	-	-	-	-	-	0.16
Non-specified	-	-	-	-	-	-	-	-	0.01	-	0.01
<b>OTHER</b>	<b>0.03</b>	<b>-</b>	<b>1.48</b>	<b>0.07</b>	<b>-</b>	<b>-</b>	<b>0.00</b>	<b>1.31</b>	<b>3.32</b>	<b>2.31</b>	<b>8.52</b>
Residential	0.01	-	0.62	0.04	-	-	0.00	1.13	1.82	1.43	5.04
Comm. and public services	0.00	-	0.25	0.03	-	-	-	0.07	1.42	-	1.76
Agriculture/forestry	0.02	-	0.58	0.01	-	-	-	0.12	0.08	-	0.80
Fishing	-	-	0.04	-	-	-	-	-	-	-	0.04
Non-specified	-	-	-	-	-	-	-	0.00	-	0.88	0.88
<b>NON-ENERGY USE</b>	<b>-</b>	<b>-</b>	<b>1.20</b>	<b>0.26</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1.46</b>
in industry/transf./energy	-	-	1.20	0.26	-	-	-	-	-	-	1.46
of which: feedstocks	-	-	0.66	0.26	-	-	-	-	-	-	0.92
in transport	-	-	-	-	-	-	-	-	-	-	-
in other	-	-	-	-	-	-	-	-	-	-	-
<b>Electricity and Heat Output</b>											
<b>Elec. generated - TWh</b>	<b>14.31</b>	<b>-</b>	<b>0.43</b>	<b>11.25</b>	<b>22.96</b>	<b>17.11</b>	<b>0.41</b>	<b>10.61</b>	<b>-</b>	<b>0.36</b>	<b>77.44</b>
Electricity plants	7.04	-	0.16	0.39	22.96	17.11	0.36	1.74	-	0.10	49.87
CHP plants	7.27	-	0.26	10.86	-	-	0.05	8.88	-	0.26	27.57
<b>Heat generated - PJ</b>	<b>61.15</b>	<b>-</b>	<b>10.99</b>	<b>45.42</b>	<b>-</b>	<b>-</b>	<b>8.32</b>	<b>57.85</b>	<b>0.10</b>	<b>5.22</b>	<b>189.04</b>
CHP plants	54.62	-	2.39	34.19	-	-	0.42	46.80	-	2.01	140.43
Heat plants	6.53	-	8.60	11.23	-	-	7.91	11.04	0.10	3.21	48.60

\* Includes crude oil, NGL, refinery feedstocks, additives and other hydrocarbons.

## Finland : 2009

Million tonnes of oil equivalent											
<b>SUPPLY AND CONSUMPTION</b>	Coal & peat	Crude oil*	Oil products	Natural gas	Nuclear	Hydro	Geotherm. solar etc.	Biofuels & waste	Electricity	Heat	Total
Production	2.18	0.08	-	-	6.13	1.09	0.03	6.98	-	0.05	16.55
Imports	3.80	11.76	5.08	3.48	-	-	-	0.10	1.33	-	25.55
Exports	-0.01	-0.12	-6.62	-	-	-	-	-0.16	-0.29	-	-7.20
Intl. marine bunkers	-	-	-0.25	-	-	-	-	-	-	-	-0.25
Intl. aviation bunkers	-	-	-0.51	-	-	-	-	-	-	-	-0.51
Stock changes	-0.75	0.24	-0.47	-	-	-	-	-	-	-	-0.98
<b>TPES</b>	<b>5.22</b>	<b>11.97</b>	<b>-2.77</b>	<b>3.48</b>	<b>6.13</b>	<b>1.09</b>	<b>0.03</b>	<b>6.92</b>	<b>1.04</b>	<b>0.05</b>	<b>33.17</b>
Transfers	-	2.75	-2.75	-	-	-	-	-	-	-	0.01
Statistical differences	0.19	0.35	-0.41	-0.00	-	-	-	-0.03	-	-	0.10
Electricity plants	-1.72	-	-0.05	-0.03	-6.13	-1.09	-0.02	-0.22	3.99	-0.03	-5.30
CHP plants	-2.36	-	-0.10	-1.84	-	-	-	-2.07	2.20	3.25	-0.92
Heat plants	-0.21	-	-0.30	-0.36	-	-	-	-0.32	-0.01	1.09	-0.11
Blast furnaces	-0.28 e	-	-0.13	-	-	-	-	-	-	-	-0.41
Gas works	-	-	-	-	-	-	-	-	-	-	-
Coke/pat. fuel/BKB plants	-0.09	-	-	-	-	-	-	-	-	-	-0.09
Oil refineries	-	-15.26	15.17	-	-	-	-	-	-	-	-0.09
Petrochemical plants	-	0.18	-0.20	-	-	-	-	-	-	-	-0.02
Liquefaction plants	-	-	-	-	-	-	-	-	-	-	-
Other transformation	-	-	-	-	-	-	-	-	-	-	-
Energy industry own use	-0.13	-	-0.62	-0.29	-	-	-	-	-0.36	-0.01	-1.41
Losses	-0.04	-	-	-	-	-	-	-	-0.24	-0.28	-0.56
<b>TFC</b>	<b>0.58</b>	<b>-</b>	<b>7.85</b>	<b>0.95</b>	<b>-</b>	<b>-</b>	<b>0.00</b>	<b>4.29</b>	<b>6.63</b>	<b>4.08</b>	<b>24.38</b>
<b>INDUSTRY</b>	<b>0.55</b>	<b>-</b>	<b>1.14</b>	<b>0.59</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>2.72</b>	<b>3.11</b>	<b>1.54</b>	<b>9.65</b>
Iron and steel	0.27 e	-	0.09	0.04	-	-	-	-	0.23	0.04	0.67
Chemical and petrochem.	0.00	-	0.29	0.02	-	-	-	0.01	0.36	0.30	0.97
Non-ferrous metals	0.00	-	0.01	0.00	-	-	-	0.01	0.16	0.03	0.21
Non-metallic minerals	0.07	-	0.09	0.04	-	-	-	0.00	0.08	0.01	0.28
Transport equipment	-	-	0.02	0.00	-	-	-	-	0.03	0.02	0.06
Machinery	-	-	0.01	0.03	-	-	-	-	0.22	0.10	0.37
Mining and quarrying	-	-	0.01	-	-	-	-	-	0.04	0.01	0.05
Food and tobacco	0.01	-	0.03	0.04	-	-	-	0.00	0.18	0.19	0.46
Paper, pulp and printing	0.20	-	0.20	0.41	-	-	-	2.46	1.53	0.54	5.34
Wood and wood products	-	-	0.02	0.00	-	-	-	0.08	0.14	0.23	0.47
Construction	-	-	0.27	-	-	-	-	-	0.03	-	0.29
Textile and leather	-	-	0.01	0.01	-	-	-	-	0.02	0.01	0.05
Non-specified	-	-	0.10	0.00	-	-	-	0.16	0.10	0.05	0.42
<b>TRANSPORT</b>	<b>-</b>	<b>-</b>	<b>4.08</b>	<b>0.01</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.13</b>	<b>0.06</b>	<b>-</b>	<b>4.29</b>
Domestic aviation	-	-	0.14	-	-	-	-	-	-	-	0.14
Road	-	-	3.75	0.01	-	-	-	0.13	-	-	3.89
Rail	-	-	0.03	-	-	-	-	-	0.06	-	0.09
Pipeline transport	-	-	-	0.01	-	-	-	-	-	-	0.01
Domestic navigation	-	-	0.17	-	-	-	-	-	-	-	0.17
Non-specified	-	-	-	-	-	-	-	-	0.01	-	0.01
<b>OTHER</b>	<b>0.04</b>	<b>-</b>	<b>1.52</b>	<b>0.08</b>	<b>-</b>	<b>-</b>	<b>0.00</b>	<b>1.43</b>	<b>3.46</b>	<b>2.54</b>	<b>9.06</b>
Residential	0.01	-	0.65	0.04	-	-	0.00	1.22	1.90	1.55	5.37
Comm. and public services	0.00	-	0.27	0.02	-	-	-	0.08	1.48	-	1.85
Agriculture/forestry	0.02	-	0.57	0.01	-	-	-	0.13	0.08	-	0.81
Fishing	-	-	0.04	-	-	-	-	-	-	-	0.04
Non-specified	-	-	-	-	-	-	-	0.00	-	0.99	1.00
<b>NON-ENERGY USE</b>	<b>-</b>	<b>-</b>	<b>1.11</b>	<b>0.27</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1.38</b>
in industry/transf./energy	-	-	1.11	0.27	-	-	-	-	-	-	1.38
of which: feedstocks	-	-	0.64	0.27	-	-	-	-	-	-	0.91
in transport	-	-	-	-	-	-	-	-	-	-	-
in other	-	-	-	-	-	-	-	-	-	-	-
<b>Electricity and Heat Output</b>											
<b>Elec. generated - TWh</b>	<b>15.91</b>	<b>-</b>	<b>0.53</b>	<b>9.80</b>	<b>23.53</b>	<b>12.69</b>	<b>0.42</b>	<b>8.95</b>	<b>-</b>	<b>0.24</b>	<b>72.06</b>
Electricity plants	8.26	-	0.22	0.17	23.53	12.69	0.36	0.99	-	0.05	46.26
CHP plants	7.66	-	0.32	9.63	-	-	0.07	7.95	-	0.18	25.81
<b>Heat generated - PJ</b>	<b>64.70</b>	<b>-</b>	<b>13.91</b>	<b>46.47</b>	<b>-</b>	<b>-</b>	<b>1.90</b>	<b>54.25</b>	<b>0.11</b>	<b>2.55</b>	<b>183.89</b>
CHP plants	57.08	-	2.59	32.80	-	-	0.60	43.07	-	1.11	137.24
Heat plants	7.62	-	11.33	13.67	-	-	1.29	11.18	0.11	1.44	46.65

\* Includes crude oil, NGL, refinery feedstocks, additives and other hydrocarbons.

## Finland

## Estimated energy supply balance for 2010

Million tonnes of oil equivalent											
SUPPLY	Coal & peat	Crude oil*	Oil products	Natural gas	Nuclear	Hydro	Geotherm. solar etc.	Biofuels & waste	Electricity	Heat	Total
Production	1.91	0.08	-	-	5.94	1.11	0.03	8.03	-	0.06	17.15
Imports	3.97	11.43	4.87	3.83	-	-	-	0.08	1.35	-	25.54
Exports	-0.01	-	-7.03	-	-	-	-	-0.23	-0.45	-	-7.72
Intl. marine bunkers	-	-	-0.24	-	-	-	-	-	-	-	-0.24
Intl. aviation bunkers	-	-	-0.54	-	-	-	-	-	-	-	-0.54
Stock changes	0.86	-0.13	0.70	-	-	-	-	-	-	-	1.42
<b>TPES</b>	<b>6.73</b>	<b>11.38</b>	<b>-2.24</b>	<b>3.83</b>	<b>5.94</b>	<b>1.11</b>	<b>0.03</b>	<b>7.89</b>	<b>0.90</b>	<b>0.06</b>	<b>35.61</b>
Electricity and Heat Output											
Elec. generated - TWh	21.27	-	0.61	11.15	22.78	12.88	0.44	10.98	-	0.24	80.35
Heat generated - PJ	70.21	-	14.11	49.18	-	-	1.93	60.94	0.11	2.63	199.11

\* Includes crude oil, NGL, refinery feedstocks, additives and other hydrocarbons.

## Key indicators

	1960	1971	1980	1990	2000	2008	2009	2010e
Energy production (Mtoe)	5.3	5.0	6.9	12.1	15.1	16.5	16.6	17.2
Net imports (Mtoe)	4.7	14.4	18.3	17.8	18.4	19.9	18.4	17.8
Total primary energy supply (Mtoe)	9.7	18.2	24.6	28.4	32.3	35.3	33.2	35.6
Net oil imports (Mtoe)	2.7	11.9	13.7	10.3	10.4	11.1	10.1	9.3
Oil supply (Mtoe)	2.5	10.9	12.6	9.5	8.9	9.8	9.2	9.1
Electricity consumption (TWh)*	8.3	22.6	39.7	62.3	79.1	86.9	81.4	88.1
GDP (billion 2000 USD)	31.7 e	51.9	73.5	99.3	121.7	153.8	141.2	145.6
GDP PPP (billion 2000 USD)	34.6 e	56.6	80.1	108.3	132.8	167.7	154.0	158.8
Population (millions)	4.43 e	4.61	4.78	4.99	5.18	5.31	5.34	5.36
Industrial production index (2005=100)	13.80	29.80	44.50	58.90	91.20	115.50	94.60	100.40
Total self-sufficiency**	0.5438	0.2743	0.2810	0.4257	0.4673	0.4680	0.4990	0.4817
Coal and peat self-sufficiency**	0.0141	0.0126	0.1466	0.3406	0.2370	0.1982	0.4183	0.2841
Oil self-sufficiency**	..	..	-	-	0.0067	0.0084	0.0091	0.0087
Natural gas self-sufficiency**	..	..	-	-	-	-	-	-
TPES/GDP (toe per thousand 2000 USD)	0.3068 e	0.3501	0.3349	0.2858	0.2650	0.2295	0.2350	0.2446
TPES/GDP PPP (toe per thousand 2000 USD)	0.2813 e	0.3209	0.3070	0.2620	0.2429	0.2103	0.2154	0.2243
TPES/population (toe per capita)	2.1968 e	3.9393	5.1461	5.6921	6.2311	6.6412	6.2127	6.6463
Net oil imports/GDP (toe per thousand 2000 USD)	0.0841 e	0.2284	0.1862	0.1042	0.0854	0.0720	0.0716	0.0637
Oil supply/GDP (toe per thousand 2000 USD)	0.0788 e	0.2101	0.1715	0.0953	0.0732	0.0635	0.0652	0.0628
Oil supply/population (toe per capita)	0.5644 e	2.3641	2.6354	1.8974	1.7212	1.8372	1.7241	1.7054
Elect. cons./GDP (kWh per 2000 USD)	0.2616 e	0.4345	0.5398	0.6270	0.6501	0.5649	0.5765	0.6051
Elect. cons./population (kWh per capita)	1873 e	4890	8295	12487	15287	16351	15241	16439
Industry cons.***/industrial production (2005=100)	144.81	145.09	128.40	140.75	105.91	90.70	92.25	..
Industry oil cons.***/industrial production (2005=100)	234.73	469.43	337.53	175.65	83.41	88.70	95.50	..

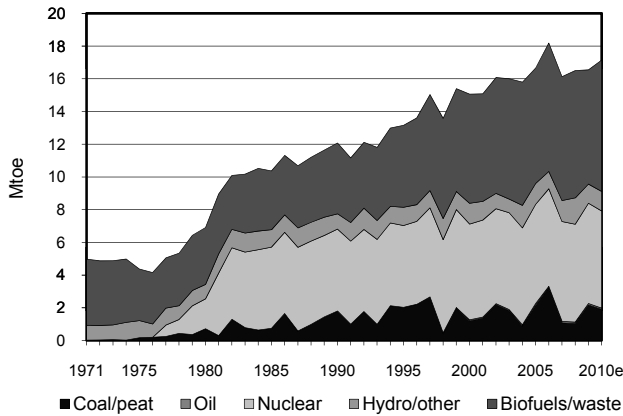
\* Electricity consumption equals domestic supply less losses.

\*\* Production divided by TPES.

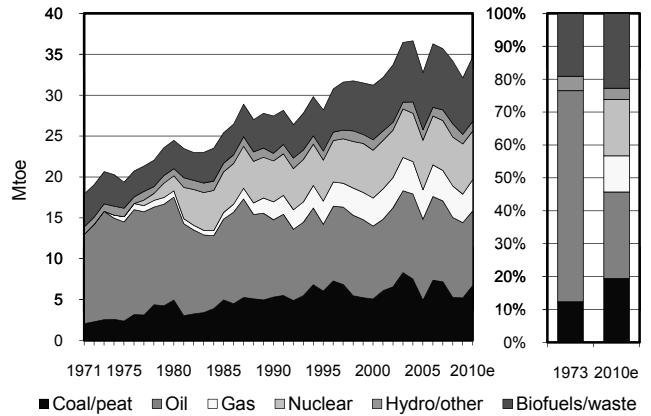
\*\*\* Includes non-energy use.

**Finland**

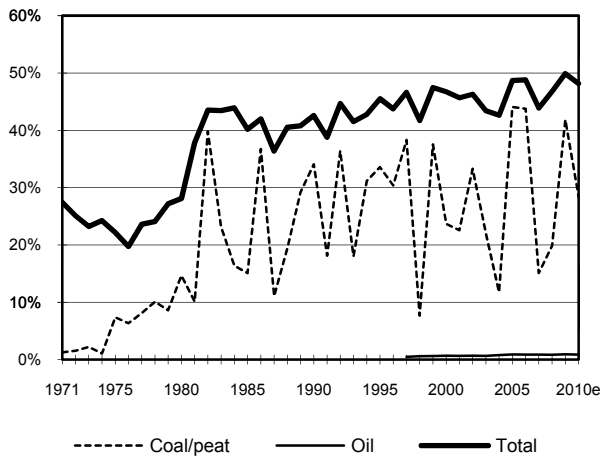
**Figure 1. Energy production**



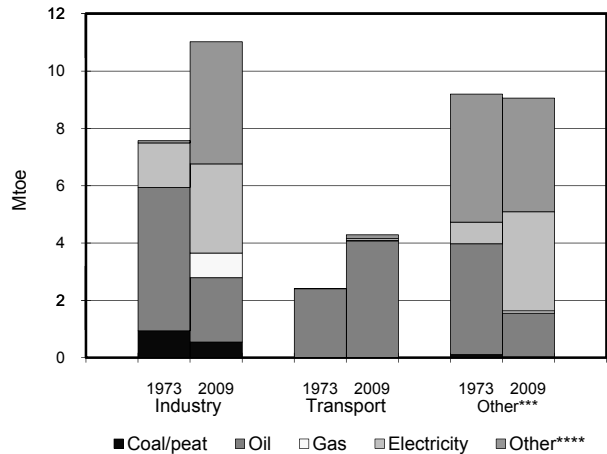
**Figure 2. Total primary energy supply\***



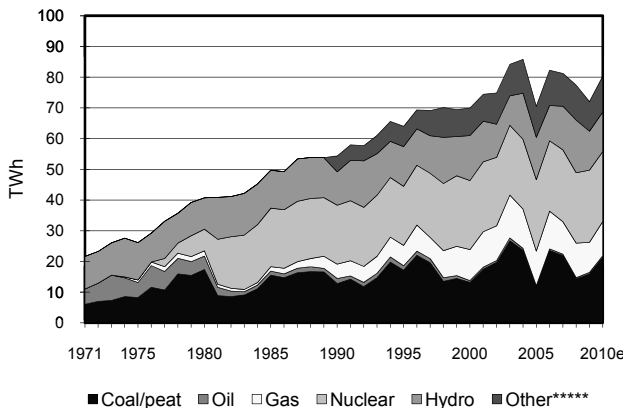
**Figure 3. Energy self-sufficiency**



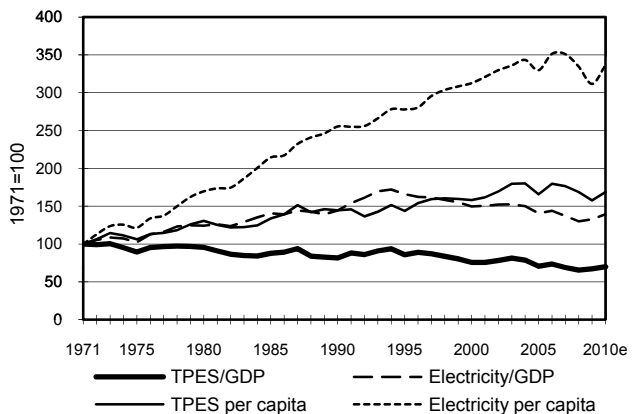
**Figure 4. Breakdown of sectorial final consumption by source in 1973 and 2009\*\***



**Figure 5. Electricity generation by fuel**



**Figure 6. Selected indicators**



\* Excluding electricity trade.  
 \*\* Includes non-energy use.  
 \*\*\* Includes residential, commercial and public services, agriculture/forestry, fishing and non-specified.  
 \*\*\*\* Includes biofuels and waste, direct use of geothermal/solar thermal and heat produced in CHP/heat plants.  
 \*\*\*\*\* Includes geothermal, solar, wind, biofuels and waste, etc.

## France : 2008

Million tonnes of oil equivalent											
SUPPLY AND CONSUMPTION	Coal & peat	Crude oil*	Oil products	Natural gas	Nuclear	Hydro	Geotherm. solar etc.	Biofuels & waste	Electricity	Heat	Total
Production	0.17	1.29	-	0.81	114.52	5.48	0.70	14.29	-	-	137.27
Imports	14.99	83.29	36.19	40.09	-	-	-	0.39	0.92	-	175.87
Exports	-0.78	-0.04	-29.51	-1.10	-	-	-	-0.06	-5.05	-	-36.53
Intl. marine bunkers	-	-	-2.53	-	-	-	-	-	-	-	-2.53
Intl. aviation bunkers	-	-	-5.93	-	-	-	-	-	-	-	-5.93
Stock changes	-1.44	0.06	0.38	0.07	-	-	-	-0.02	-	-	-0.95
<b>TPES</b>	<b>12.93</b>	<b>84.61</b>	<b>-1.41</b>	<b>39.87</b>	<b>114.52</b>	<b>5.48</b>	<b>0.70</b>	<b>14.61</b>	<b>-4.13</b>	<b>-</b>	<b>267.20</b>
Transfers	-	2.71	-2.42	-	-	-	-	-	-	-	0.29
Statistical differences	0.91	0.26	-2.23	0.04	-	-	-	0.00	-	-	-1.03
Electricity plants	-6.04	-	-1.32	-0.56 e	-114.52	-5.48	-0.54	-1.45	46.90	-	-83.01
CHP plants	-0.70	-	-0.84	-5.06 e	-	-	-	-0.97	2.08	3.69	-1.80
Heat plants	-	-	-	-	-	-	-	-0.20	-	0.11	-0.09
Blast furnaces	-2.10 e	-	-	-	-	-	-	-	-	-	-2.10
Gas works	-	-	-	-	-	-	-	-	-	-	-
Coke/pat. fuel/BKB plants	-0.53	-	-0.11	-	-	-	-	-	-	-	-0.64
Oil refineries	-	-89.00	90.11	-	-	-	-	-	-	-	1.11
Petrochemical plants	-	1.42	-1.49	-	-	-	-	-	-	-	-0.06
Liquefaction plants	-	-	-	-	-	-	-	-	-	-	-
Other transformation	-	-	-	-	-	-	-	-	-	-	-
Energy industry own use	-0.45	-	-4.67	-0.56 e	-	-	-	-	-4.80	-	-10.49
Losses	-	-	-	-0.68 e	-	-	-	-	-2.83	-	-3.51
<b>TFC</b>	<b>4.03</b>	<b>-</b>	<b>75.62</b>	<b>33.05</b>	<b>-</b>	<b>-</b>	<b>0.16</b>	<b>12.00</b>	<b>37.22</b>	<b>3.80</b>	<b>165.87</b>
<b>INDUSTRY</b>	<b>3.53</b>	<b>-</b>	<b>6.53</b>	<b>9.36</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>2.29</b>	<b>12.08</b>	<b>-</b>	<b>33.79</b>
Iron and steel	2.17 e	-	0.03	0.66	-	-	-	-	1.05	-	3.91
Chemical and petrochem.	0.49	-	2.83	1.79	-	-	-	-	2.25	-	7.36
Non-ferrous metals	0.00	-	0.05	0.24	-	-	-	-	0.91	-	1.21
Non-metallic minerals	0.35	-	1.13	1.68	-	-	-	-	0.99	-	4.14
Transport equipment	0.01	-	0.03	0.38	-	-	-	-	0.79	-	1.20
Machinery	0.03	-	0.16	0.57	-	-	-	-	1.56	-	2.32
Mining and quarrying	-	-	0.12	0.01	-	-	-	-	0.00	-	0.14
Food and tobacco	0.42	-	0.39	1.91	-	-	-	0.34	1.87	-	4.93
Paper, pulp and printing	0.04	-	0.10	0.85	-	-	-	0.56	1.01	-	2.56
Wood and wood products	-	-	0.03	0.08	-	-	-	1.38	0.21	-	1.70
Construction	-	-	1.29	0.33 e	-	-	-	-	0.18	-	1.81
Textile and leather	-	-	0.03	0.24	-	-	-	-	0.21	-	0.48
Non-specified	0.03	-	0.33	0.63 e	-	-	-	-	1.04	-	2.03
<b>TRANSPORT</b>	<b>-</b>	<b>-</b>	<b>41.04</b>	<b>0.08</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>2.27</b>	<b>1.14</b>	<b>-</b>	<b>44.54</b>
Domestic aviation	-	-	1.38	-	-	-	-	-	-	-	1.38
Road	-	-	39.15	0.08 e	-	-	-	2.27	-	-	41.51
Rail	-	-	0.20	-	-	-	-	-	0.81	-	1.01
Pipeline transport	-	-	-	-	-	-	-	-	-	-	-
Domestic navigation	-	-	0.31	-	-	-	-	-	-	-	0.31
Non-specified	-	-	-	-	-	-	-	-	0.33	-	0.33
<b>OTHER</b>	<b>0.40</b>	<b>-</b>	<b>15.99</b>	<b>21.99</b>	<b>-</b>	<b>-</b>	<b>0.16</b>	<b>7.44</b>	<b>24.00</b>	<b>3.80</b>	<b>73.78</b>
Residential	0.35	-	8.01	14.00	-	-	0.11	6.73	13.38	-	42.58
Comm. and public services	-	-	4.20	4.76	-	-	0.04	0.67	10.17	-	19.85
Agriculture/forestry	-	-	3.16	0.23	-	-	0.01	0.04	0.33	-	3.77
Fishing	-	-	0.30	-	-	-	-	-	0.01	-	0.31
Non-specified	0.05	-	0.31	3.00 e	-	-	-	-	0.10	3.80	7.27
<b>NON-ENERGY USE</b>	<b>0.10</b>	<b>-</b>	<b>12.06</b>	<b>1.61</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>13.76</b>
in industry/transf./energy	-	-	11.71	1.61	-	-	-	-	-	-	13.32
of which: feedstocks	-	-	7.95	1.61	-	-	-	-	-	-	9.56
in transport	-	-	0.27	-	-	-	-	-	-	-	0.27
in other	0.10	-	0.07	-	-	-	-	-	-	-	0.17
<b>Electricity and Heat Output</b>											
<b>Elec. generated - TWh</b>	<b>26.43</b>	<b>-</b>	<b>5.86</b>	<b>21.88</b>	<b>439.45</b>	<b>63.77</b>	<b>6.24</b>	<b>5.87</b>	<b>-</b>	<b>-</b>	<b>569.51</b>
Electricity plants	24.87	-	5.06	2.39	439.45	63.77	6.24	3.53	-	-	545.31
CHP plants	1.56	-	0.80	19.50 e	-	-	-	2.34	-	-	24.20
<b>Heat generated - PJ</b>	<b>17.34</b>	<b>-</b>	<b>23.36</b>	<b>97.97</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>20.65</b>	<b>-</b>	<b>-</b>	<b>159.32</b>
CHP plants	17.34	-	23.36	97.97	-	-	-	15.86	-	-	154.53
Heat plants	-	-	-	-	-	-	-	4.79	-	-	4.79

\* Includes crude oil, NGL, refinery feedstocks, additives and other hydrocarbons.

## France : 2009

Million tonnes of oil equivalent											
<b>SUPPLY AND CONSUMPTION</b>	Coal & peat	Crude oil*	Oil products	Natural gas	Nuclear	Hydro	Geotherm. solar etc.	Biofuels & waste	Electricity	Heat	Total
Production	0.09	1.11	-	0.76	106.78	4.91	0.90	14.95	-	-	129.50
Imports	10.78	71.78	39.05	40.71	-	-	-	0.41	1.59	-	164.32
Exports	-0.49	-0.07	-23.47	-1.93	-	-	-	-0.17	-3.82	-	-29.94
Intl. marine bunkers	-	-	-2.52	-	-	-	-	-	-	-	-2.52
Intl. aviation bunkers	-	-	-5.46	-	-	-	-	-	-	-	-5.46
Stock changes	0.84	0.43	0.16	-1.09	-	-	-	-0.00	-	-	0.33
<b>TPES</b>	<b>11.22</b>	<b>73.24</b>	<b>7.75</b>	<b>38.45</b>	<b>106.78</b>	<b>4.91</b>	<b>0.90</b>	<b>15.19</b>	<b>-2.23</b>	<b>-</b>	<b>256.22</b>
Transfers	-	4.49	-4.20	-	-	-	-	-	-	-	0.29
Statistical differences	0.67	-0.26	-2.84	-0.00	-	-	-	-	-	-	-2.43
Electricity plants	-5.70	-	-1.22	-0.72	-106.78	-4.91	-0.74	-1.46	44.18	-	-77.35
CHP plants	-0.66	-	-0.80	-5.67	-	-	-	-1.02	2.04	3.70	-2.41
Heat plants	-	-	-	-	-	-	-	-0.21	-	0.12	-0.09
Blast furnaces	-1.50 e	-	-	-	-	-	-	-	-	-	-1.50
Gas works	-	-	-	-	-	-	-	-	-	-	-
Coke/pat. fuel/BKB plants	-0.42	-	-0.06	-	-	-	-	-	-	-	-0.48
Oil refineries	-	-78.82	79.85	-	-	-	-	-	-	-	1.03
Petrochemical plants	-	1.34	-1.40	-	-	-	-	-	-	-	-0.06
Liquefaction plants	-	-	-	-	-	-	-	-	-	-	-
Other transformation	-	-	-	-	-	-	-	-	-	-	-
Energy industry own use	-0.34	-	-4.28	-0.21	-	-	-	-	-4.74	-	-9.57
Losses	-	-	-	-0.58	-	-	-	-	-2.83	-	-3.41
<b>TFC</b>	<b>3.27</b>	<b>-</b>	<b>72.80</b>	<b>31.28</b>	<b>-</b>	<b>-</b>	<b>0.16</b>	<b>12.51</b>	<b>36.42</b>	<b>3.82</b>	<b>160.26</b>
<b>INDUSTRY</b>	<b>2.83</b>	<b>-</b>	<b>5.86</b>	<b>6.61</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>2.35</b>	<b>9.96</b>	<b>-</b>	<b>27.60</b>
Iron and steel	1.62 e	-	0.03	0.50	-	-	-	-	0.79	-	2.94
Chemical and petrochem.	0.25	-	2.46	0.75	-	-	-	-	2.32	-	5.79
Non-ferrous metals	0.00	-	0.04	0.26	-	-	-	-	0.61	-	0.92
Non-metallic minerals	0.41	-	0.96	1.12	-	-	-	-	0.75	-	3.24
Transport equipment	0.00	-	0.03	0.38	-	-	-	-	0.66	-	1.08
Machinery	0.02	-	0.12	0.59	-	-	-	-	1.25	-	1.98
Mining and quarrying	-	-	0.11	0.01	-	-	-	-	0.05	-	0.18
Food and tobacco	0.42	-	0.32	1.72	-	-	-	0.33	1.74	-	4.53
Paper, pulp and printing	0.03	-	0.08	0.57	-	-	-	0.59	0.81	-	2.08
Wood and wood products	-	-	0.02	0.06	-	-	-	1.42	0.21	-	1.71
Construction	-	-	1.21	0.19	-	-	-	-	0.19	-	1.59
Textile and leather	-	-	0.02	0.17	-	-	-	-	0.15	-	0.34
Non-specified	0.07	-	0.45	0.28	-	-	-	-	0.42	-	1.23
<b>TRANSPORT</b>	<b>-</b>	<b>-</b>	<b>40.75</b>	<b>0.12</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>2.45</b>	<b>1.08</b>	<b>-</b>	<b>44.40</b>
Domestic aviation	-	-	1.32	-	-	-	-	-	-	-	1.32
Road	-	-	38.94	0.06	-	-	-	2.45	-	-	41.46
Rail	-	-	0.18	-	-	-	-	-	0.76	-	0.94
Pipeline transport	-	-	-	0.00	-	-	-	-	-	-	0.00
Domestic navigation	-	-	0.31	-	-	-	-	-	-	-	0.31
Non-specified	-	-	-	0.06	-	-	-	-	0.32	-	0.38
<b>OTHER</b>	<b>0.38</b>	<b>-</b>	<b>15.53</b>	<b>23.39</b>	<b>-</b>	<b>-</b>	<b>0.16</b>	<b>7.71</b>	<b>25.38</b>	<b>3.82</b>	<b>76.37</b>
Residential	0.34	-	7.82	14.59	-	-	0.11	6.96	14.64	-	44.46
Comm. and public services	-	-	4.15	5.54	-	-	0.04	0.71	10.30	-	20.74
Agriculture/forestry	-	-	3.00	0.20	-	-	0.01	0.04	0.27	-	3.53
Fishing	-	-	0.31	-	-	-	-	-	0.01	-	0.32
Non-specified	0.04	-	0.26	3.05	-	-	-	-	0.16	3.82	7.33
<b>NON-ENERGY USE</b>	<b>0.06</b>	<b>-</b>	<b>10.66</b>	<b>1.16</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>11.88</b>
in industry/transf./energy	-	-	10.33	1.16	-	-	-	-	-	-	11.50
of which: feedstocks	-	-	6.83	1.16	-	-	-	-	-	-	7.99
in transport	-	-	0.25	-	-	-	-	-	-	-	0.25
in other	0.06	-	0.07	-	-	-	-	-	-	-	0.13
<b>Electricity and Heat Output</b>											
<b>Elec. generated - TWh</b>	<b>28.71</b>	<b>-</b>	<b>6.17</b>	<b>21.01</b>	<b>409.74</b>	<b>57.14</b>	<b>8.56</b>	<b>6.09</b>	<b>-</b>	<b>-</b>	<b>537.41</b>
Electricity plants	26.98	-	5.30	2.37	409.74	57.14	8.56	3.61	-	-	513.69
CHP plants	1.73	-	0.87	18.65	-	-	-	2.48	-	-	23.72
<b>Heat generated - PJ</b>	<b>15.75</b>	<b>-</b>	<b>24.98</b>	<b>98.01</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>21.23</b>	<b>-</b>	<b>-</b>	<b>159.95</b>
CHP plants	15.75	-	24.98	98.01	-	-	-	16.34	-	-	155.06
Heat plants	-	-	-	-	-	-	-	4.89	-	-	4.89

\* Includes crude oil, NGL, refinery feedstocks, additives and other hydrocarbons.



## France

## Estimated energy supply balance for 2010

Million tonnes of oil equivalent											
SUPPLY	Coal & peat	Crude oil*	Oil products	Natural gas	Nuclear	Hydro	Geotherm. solar etc.	Biofuels & waste	Electricity	Heat	Total
Production	0.16	1.23	-	0.62	111.69	5.40	1.08	15.61	-	-	135.79
Imports	12.33	64.28	41.48	42.25	-	-	-	0.36	3.19	-	163.89
Exports	-0.18	-0.05	-21.92	-2.46	-	-	-	-0.31	-5.73	-	-30.64
Intl. marine bunkers	-	-	-2.45	-	-	-	-	-	-	-	-2.45
Intl. aviation bunkers	-	-	-5.43	-	-	-	-	-	-	-	-5.43
Stock changes	-0.28	0.60	0.31	2.41	-	-	-	-	-	-	3.05
<b>TPES</b>	<b>12.04</b>	<b>66.07</b>	<b>12.00</b>	<b>42.82</b>	<b>111.69</b>	<b>5.40</b>	<b>1.08</b>	<b>15.67</b>	<b>-2.54</b>	<b>-</b>	<b>264.23</b>
Electricity and Heat Output											
Elec. generated - TWh	26.53	-	6.34	26.20	428.59	62.79	10.82	6.38	-	-	567.64
Heat generated - PJ	15.75	-	24.98	98.01	-	-	-	21.23	-	-	159.95

\* Includes crude oil, NGL, refinery feedstocks, additives and other hydrocarbons.

## Key indicators

	1960	1971	1980	1990	2000	2008	2009	2010e
Energy production (Mtoe)	45.3	47.6	52.6	111.9	130.8	137.3	129.5	135.8
Net imports (Mtoe)	38.5	117.8	149.0	119.4	132.6	139.3	134.4	133.3
Total primary energy supply (Mtoe)	79.2	158.6	191.8	223.9	251.9	267.2	256.2	264.2
Net oil imports (Mtoe)	29.0	103.9	112.3	85.9	89.8	89.9	87.3	83.8
Oil supply (Mtoe)	28.6	99.3	106.3	83.9	82.0	83.2	81.0	78.1
Electricity consumption (TWh)*	68.2	144.1	243.9	347.6	440.8	493.2	483.3	510.5
GDP (billion 2000 USD)	342.8 e	630.8	861.1	1091.8	1328.0	1512.6	1472.8	1496.0
GDP PPP (billion 2000 USD)	396.2 e	729.0	995.2	1261.8	1534.7	1748.0	1702.0	1728.8
Population (millions)	46.71 e	52.41	55.11	58.17	60.73	64.14	64.49	64.67
Industrial production index (2005=100)	33.70	59.70	75.60	88.50	99.40	99.50	87.10	92.30
Total self-sufficiency**	0.5718	0.3002	0.2743	0.4997	0.5193	0.5137	0.5054	0.5139
Coal and peat self-sufficiency**	0.8324	0.6847	0.4067	0.4077	0.1650	0.0133	0.0081	0.0135
Oil self-sufficiency**	0.0707	0.0252	0.0212	0.0414	0.0221	0.0155	0.0137	0.0158
Natural gas self-sufficiency**	1.0397	0.6215	0.2923	0.0966	0.0421	0.0203	0.0198	0.0144
TPES/GDP (toe per thousand 2000 USD)	0.2311 e	0.2514	0.2227	0.2051	0.1897	0.1767	0.1740	0.1766
TPES/GDP PPP (toe per thousand 2000 USD)	0.2000 e	0.2175	0.1927	0.1774	0.1641	0.1529	0.1505	0.1528
TPES/population (toe per capita)	1.6960 e	3.0258	3.4798	3.8488	4.1477	4.1658	3.9727	4.0861
Net oil imports/GDP (toe per thousand 2000 USD)	0.0846 e	0.1648	0.1304	0.0787	0.0677	0.0595	0.0593	0.0560
Oil supply/GDP (toe per thousand 2000 USD)	0.0833 e	0.1574	0.1235	0.0769	0.0618	0.0550	0.0550	0.0522
Oil supply/population (toe per capita)	0.6112 e	1.8951	1.9292	1.4426	1.3509	1.2972	1.2559	1.2072
Elect. cons./GDP (kWh per 2000 USD)	0.1989 e	0.2285	0.2833	0.3184	0.3320	0.3260	0.3282	0.3412
Elect. cons./population (kWh per capita)	1460 e	2750	4426	5975	7260	7689	7494	7894
Industry cons.***/industrial production (2005=100)	169.21	196.45	150.78	108.33	106.32	99.72	94.53	..
Industry oil cons.***/industrial production (2005=100)	149.50	320.73	210.86	103.48	100.25	97.53	98.90	..

\* Electricity consumption equals domestic supply less losses.

\*\* Production divided by TPES.

\*\*\* Includes non-energy use.

France

Figure 1. Energy production

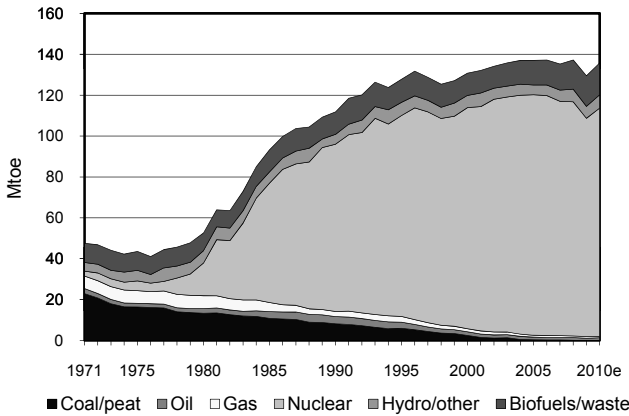


Figure 2. Total primary energy supply\*

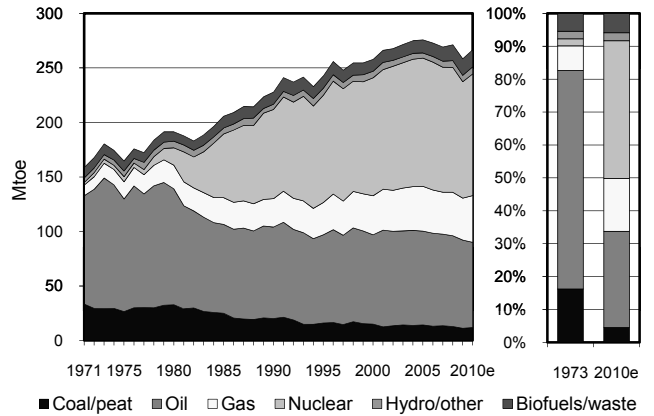


Figure 3. Energy self-sufficiency

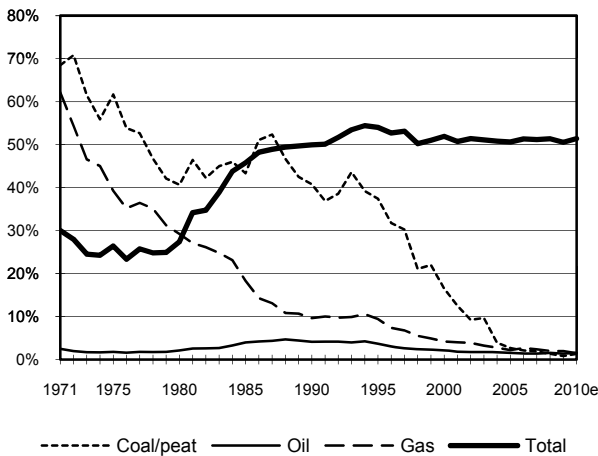


Figure 4. Breakdown of sectorial final consumption by source in 1973 and 2009\*\*

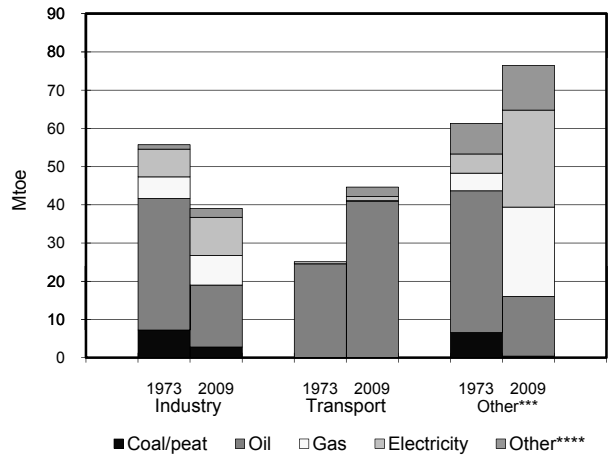


Figure 5. Electricity generation by fuel

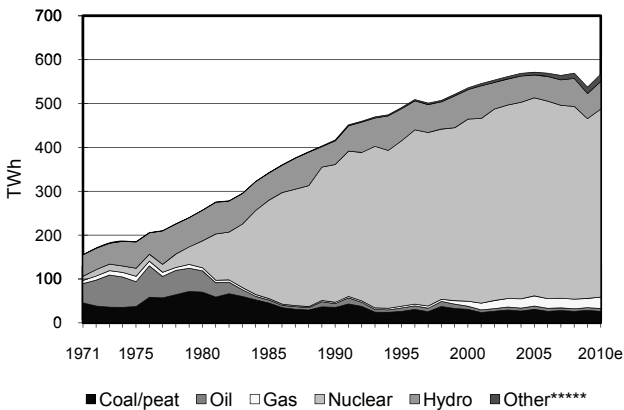
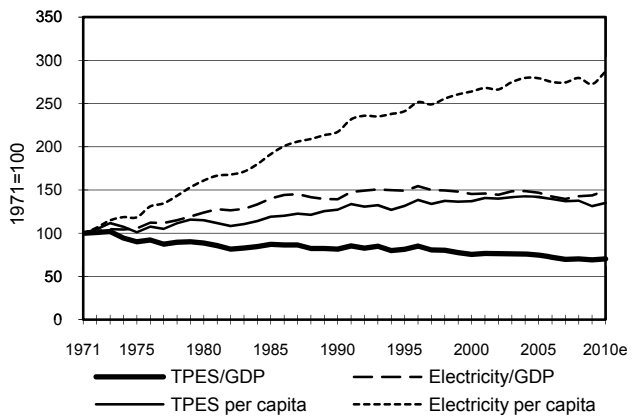


Figure 6. Selected indicators



\* Excluding electricity trade.

\*\* Includes non-energy use.

\*\*\* Includes residential, commercial and public services, agriculture/forestry, fishing and non-specified.

\*\*\*\* Includes biofuels and waste, direct use of geothermal/solar thermal and heat produced in CHP/heat plants.

\*\*\*\*\* Includes geothermal, solar, wind, biofuels and waste, etc.

## Germany : 2008

Million tonnes of oil equivalent

SUPPLY AND CONSUMPTION	Coal & peat	Crude oil*	Oil products	Natural gas	Nuclear	Hydro	Geotherm. solar etc.	Biofuels & waste	Electricity	Heat	Total
Production	50.05	4.24	-	11.31	38.70	1.80	4.47	22.96	-	-	133.53
Imports	32.09	107.60	35.17	74.80	-	-	-	0.02	3.58	-	253.26
Exports	-1.08	-0.14	-25.55	-10.13	-	-	-	-0.15	-5.31	-0.01	-42.36
Intl. marine bunkers	-	-	-2.94	-	-	-	-	-	-	-	-2.94
Intl. aviation bunkers	-	-	-7.33	-	-	-	-	-	-	-	-7.33
Stock changes	-0.09	-0.74	0.82	0.56	-	-	-	-	-	-	0.54
<b>TPES</b>	<b>80.97</b>	<b>110.97</b>	<b>0.16</b>	<b>76.53</b>	<b>38.70</b>	<b>1.80</b>	<b>4.47</b>	<b>22.84</b>	<b>-1.73</b>	<b>-0.01</b>	<b>334.70</b>
Transfers	-	3.74	-3.11	-	-	-	-	-	-	-	0.63
Statistical differences	0.44	-0.11	-0.23	1.61	-	-	-	-	-	-	1.72
Electricity plants	-59.61	-	-1.36	-5.81	-38.70	-1.80	-3.89	-7.89	47.45	-	-71.61
CHP plants	-6.68	-	-0.55	-10.58	-	-	-	-2.65	6.84	8.49	-5.13
Heat plants	-0.58	-	-0.14	-2.33	-	-	-0.03	-0.79	-	2.97	-0.90
Blast furnaces	-4.73	-	-0.53	-	-	-	-	-	-	-	-5.26
Gas works	0.01	-	-0.01	-	-	-	-	-	-	-	-0.00
Coke/pat. fuel/BKB plants	-0.01	-	-0.57	-0.04	-	-	-	-	-	-	-0.62
Oil refineries	-	-119.79	118.37	-	-	-	-	-	-	-	-1.42
Petrochemical plants	-	5.19	-5.31	-	-	-	-	-	-	-	-0.12
Liquefaction plants	-	-	-	-	-	-	-	-	-	-	-
Other transformation	-	-	-	-	-	-	-	-	-	-	-
Energy industry own use	-1.01	-	-6.54	-0.49	-	-	-	-0.06	-4.77	-0.12	-13.00
Losses	-0.26	-	-	-0.00	-	-	-	-0.03	-2.59	-0.90	-3.78
<b>TFC</b>	<b>8.53</b>	<b>-</b>	<b>100.19</b>	<b>58.89</b>	<b>-</b>	<b>-</b>	<b>0.56</b>	<b>11.41</b>	<b>45.20</b>	<b>10.43</b>	<b>235.20</b>
<b>INDUSTRY</b>	<b>6.93</b>	<b>-</b>	<b>3.53</b>	<b>17.27</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>3.54</b>	<b>20.82</b>	<b>3.16</b>	<b>55.25</b>
Iron and steel	4.27	-	0.61	2.37	-	-	-	-	2.44	0.01	9.70
Chemical and petrochem.	0.41	-	-	3.79	-	-	-	0.68	4.45	1.58	10.91
Non-ferrous metals	0.04	-	0.07	0.73	-	-	-	0.01	1.49	0.01	2.34
Non-metallic minerals	1.37	-	0.84	2.37	-	-	-	1.02	1.10	0.01	6.72
Transport equipment	0.03	-	0.09	0.81	-	-	-	0.01	1.59	0.35	2.88
Machinery	0.00	-	0.57	1.83	-	-	-	0.01	1.02	0.16	3.60
Mining and quarrying	0.07	-	0.06	0.05	-	-	-	0.00	0.21	0.00	0.39
Food and tobacco	0.20	-	0.62	2.01	-	-	-	0.06	1.31	0.14	4.35
Paper, pulp and printing	0.49	-	0.15	2.18	-	-	-	0.87	2.08	0.40	6.16
Wood and wood products	0.00	-	0.06	0.16	-	-	-	0.72	0.40	0.07	1.42
Construction	-	-	-	-	-	-	-	-	0.07	-	0.07
Textile and leather	0.02	-	0.08	0.26	-	-	-	0.00	0.23	0.02	0.61
Non-specified	0.02	-	0.37	0.72	-	-	-	0.16	4.43	0.39	6.10
<b>TRANSPORT</b>	<b>-</b>	<b>-</b>	<b>49.60</b>	<b>0.10</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>2.51</b>	<b>1.42</b>	<b>-</b>	<b>53.63</b>
Domestic aviation	-	-	1.85	-	-	-	-	-	-	-	1.85
Road	-	-	46.93	0.10	-	-	-	2.51	-	-	49.54
Rail	-	-	0.45	-	-	-	-	-	1.42	-	1.87
Pipeline transport	-	-	-	-	-	-	-	-	-	-	-
Domestic navigation	-	-	0.30	-	-	-	-	-	-	-	0.30
Non-specified	-	-	0.07	-	-	-	-	-	-	-	0.07
<b>OTHER</b>	<b>1.25</b>	<b>-</b>	<b>25.16</b>	<b>39.58</b>	<b>-</b>	<b>-</b>	<b>0.56</b>	<b>5.36</b>	<b>22.96</b>	<b>7.27</b>	<b>102.14</b>
Residential	0.97	-	16.33	29.01	-	-	0.56	5.35	12.00	3.93	68.15
Comm. and public services	0.28	-	8.82	6.66	-	-	-	0.01	10.21	3.34	29.32
Agriculture/forestry	-	-	-	0.26	-	-	-	-	0.75	-	1.01
Fishing	-	-	-	-	-	-	-	-	-	-	-
Non-specified	0.00	-	0.00	3.65	-	-	-	-	-	-	3.66
<b>NON-ENERGY USE</b>	<b>0.35</b>	<b>-</b>	<b>21.90</b>	<b>1.93</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>24.19</b>
in industry/transf./energy	0.35	-	21.54	1.93	-	-	-	-	-	-	23.82
of which: feedstocks	0.04	-	17.58	1.93	-	-	-	-	-	-	19.56
in transport	-	-	0.35	-	-	-	-	-	-	-	0.35
in other	-	-	0.01	-	-	-	-	-	-	-	0.01
<b>Electricity and Heat Output</b>											
<b>Elec. generated - TWh</b>	<b>290.65</b>	<b>-</b>	<b>9.24</b>	<b>87.65</b>	<b>148.50</b>	<b>20.94</b>	<b>45.01</b>	<b>29.22</b>	<b>-</b>	<b>-</b>	<b>631.21</b>
Electricity plants	272.03 e	-	6.55	35.88	148.50	20.94	45.01	22.81	-	-	551.73
CHP plants	18.61	-	2.69	51.78 e	-	-	-	6.41	-	-	79.49
<b>Heat generated - PJ</b>	<b>162.86</b>	<b>-</b>	<b>6.26</b>	<b>250.04</b>	<b>-</b>	<b>-</b>	<b>0.59</b>	<b>55.35</b>	<b>-</b>	<b>4.67</b>	<b>479.75</b>
CHP plants	143.26	-	1.02	171.77	-	-	-	37.04	-	2.30 e	355.39
Heat plants	19.60	-	5.24	78.26	-	-	0.59	18.31	-	2.37 e	124.37

\* Includes crude oil, NGL, refinery feedstocks, additives and other hydrocarbons.

## Germany : 2009

Million tonnes of oil equivalent											
<b>SUPPLY AND CONSUMPTION</b>	Coal & peat	Crude oil*	Oil products	Natural gas	Nuclear	Hydro	Geotherm. solar etc.	Biofuels & waste	Electricity	Heat	Total
Production	45.70	3.87	-	11.11	35.16	1.60	4.77	24.86	-	-	127.09
Imports	26.76	100.11	33.29	76.32	-	-	-	0.00	3.60	-	240.08
Exports	-0.87	-0.11	-22.45	-9.05	-	-	-	-	-4.66	-0.01	-37.15
Intl. marine bunkers	-	-	-2.70	-	-	-	-	-	-	-	-2.70
Intl. aviation bunkers	-	-	-7.13	-	-	-	-	-	-	-	-7.13
Stock changes	0.02	0.40	-0.25	-1.83	-	-	-	-	-	-	-1.66
<b>TPES</b>	<b>71.62</b>	<b>104.27</b>	<b>0.75</b>	<b>76.56</b>	<b>35.16</b>	<b>1.60</b>	<b>4.77</b>	<b>24.86</b>	<b>-1.06</b>	<b>-0.01</b>	<b>318.53</b>
Transfers	-	2.27	-1.64	-	-	-	-	-	-	-	0.63
Statistical differences	0.49	-0.18	0.63	-1.92	-	-	-0.01	-0.00	-	-	-0.99
Electricity plants	-53.86	-	-1.50	-4.58	-35.16	-1.60	-3.90	-9.44	43.81	-	-66.25
CHP plants	-6.63	-	-0.53	-10.10	-	-	-	-3.24	6.63	8.20	-5.68
Heat plants	-0.62	-	-0.18	-1.90	-	-	-0.05	-1.05	-	3.04	-0.76
Blast furnaces	-3.60	-	-0.25	-	-	-	-	-	-	-	-3.85
Gas works	-	-	-	-	-	-	-	-	-	-	-
Coke/pat. fuel/BKB plants	0.50	-	-0.40	-0.04	-	-	-	-	-	-	0.05
Oil refineries	-	-111.57	110.00	-	-	-	-	-	-	-	-1.57
Petrochemical plants	-	5.21	-5.32	-	-	-	-	-	-	-	-0.11
Liquefaction plants	-	-	-	-	-	-	-	-	-	-	-
Other transformation	-	-	-	-	-	-	-	-	-	-	-
Energy industry own use	-0.78	-	-6.47	-0.74	-	-	-	-0.00	-4.61	-0.12	-12.72
Losses	-0.32	-	-	-0.00	-	-	-	-0.02	-2.15	-0.87	-3.36
<b>TFC</b>	<b>6.81</b>	<b>-</b>	<b>95.08</b>	<b>57.27</b>	<b>-</b>	<b>-</b>	<b>0.81</b>	<b>11.09</b>	<b>42.62</b>	<b>10.24</b>	<b>223.92</b>
<b>INDUSTRY</b>	<b>5.36</b>	<b>-</b>	<b>3.08</b>	<b>15.16</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>3.31</b>	<b>17.38</b>	<b>3.63</b>	<b>47.91</b>
Iron and steel	3.07	-	0.48	1.58	-	-	-	0.00	1.93	0.04	7.09
Chemical and petrochem.	0.41	-	-	3.92	-	-	-	0.40	3.86	2.12	10.70
Non-ferrous metals	0.02	-	0.13	0.58	-	-	-	0.01	0.95	0.02	1.70
Non-metallic minerals	1.21	-	0.75	2.03	-	-	-	0.96	1.00	0.01	5.96
Transport equipment	0.03	-	0.06	0.68	-	-	-	0.00	1.36	0.35	2.48
Machinery	0.02	-	0.40	1.46	-	-	-	0.03	0.86	0.12	2.90
Mining and quarrying	0.05	-	0.08	0.13	-	-	-	0.02	0.18	0.00	0.46
Food and tobacco	0.17	-	0.52	2.06	-	-	-	0.08	1.53	0.16	4.53
Paper, pulp and printing	0.36	-	0.10	1.86	-	-	-	0.86	2.06	0.38	5.61
Wood and wood products	0.00	-	0.05	0.11	-	-	-	0.84	0.38	0.09	1.48
Construction	-	-	-	-	-	-	-	-	0.07	-	0.07
Textile and leather	0.01	-	0.04	0.21	-	-	-	0.00	0.20	0.01	0.47
Non-specified	0.01	-	0.47	0.54	-	-	-	0.12	2.99	0.32	4.44
<b>TRANSPORT</b>	<b>-</b>	<b>-</b>	<b>49.64</b>	<b>0.13</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>2.78</b>	<b>1.37</b>	<b>-</b>	<b>53.92</b>
Domestic aviation	-	-	1.80	-	-	-	-	-	-	-	1.80
Road	-	-	47.22	0.13	-	-	-	2.78	-	-	50.13
Rail	-	-	0.42	-	-	-	-	-	1.37	-	1.78
Pipeline transport	-	-	-	-	-	-	-	-	-	-	-
Domestic navigation	-	-	0.14	-	-	-	-	-	-	-	0.14
Non-specified	-	-	0.07	-	-	-	-	-	-	-	0.07
<b>OTHER</b>	<b>1.20</b>	<b>-</b>	<b>21.98</b>	<b>40.23</b>	<b>-</b>	<b>-</b>	<b>0.81</b>	<b>5.00</b>	<b>23.88</b>	<b>6.61</b>	<b>99.70</b>
Residential	0.96	-	14.02	28.80	-	-	0.79	4.99	11.97	4.21	65.74
Comm. and public services	0.24	-	7.95	7.52	-	-	0.01	0.01	11.17	2.40	29.31
Agriculture/forestry	-	-	-	0.26	-	-	-	-	0.74	-	1.00
Fishing	-	-	-	-	-	-	-	-	-	-	-
Non-specified	-	-	-	3.65	-	-	-	-	-	-	3.65
<b>NON-ENERGY USE</b>	<b>0.25</b>	<b>-</b>	<b>20.39</b>	<b>1.75</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>22.39</b>
in industry/transf./energy	0.25	-	20.07	1.75	-	-	-	-	-	-	22.07
of which: feedstocks	0.01	-	16.57	1.75	-	-	-	-	-	-	18.33
in transport	-	-	0.30	-	-	-	-	-	-	-	0.30
in other	-	-	0.01	-	-	-	-	-	-	-	0.01
<b>Electricity and Heat Output</b>											
<b>Elec. generated - TWh</b>	<b>257.14</b>	<b>-</b>	<b>9.64</b>	<b>78.88</b>	<b>134.93</b>	<b>18.66</b>	<b>51.60</b>	<b>35.56</b>	<b>-</b>	<b>-</b>	<b>586.41</b>
Electricity plants	238.87	-	7.22	31.28	134.93	18.66	50.10 e	28.32	-	-	509.38
CHP plants	18.27	-	2.42	47.60	-	-	1.50 e	7.24	-	-	77.04
<b>Heat generated - PJ</b>	<b>149.75</b>	<b>-</b>	<b>7.12</b>	<b>232.82</b>	<b>-</b>	<b>-</b>	<b>1.05</b>	<b>65.97</b>	<b>-</b>	<b>13.84</b>	<b>470.55</b>
CHP plants	139.53	-	1.83	157.20	-	-	-	42.88	-	1.85 e	343.30
Heat plants	10.21	-	5.29	75.62	-	-	1.05	23.09	-	11.99 e	127.25

\* Includes crude oil, NGL, refinery feedstocks, additives and other hydrocarbons.

## Germany

## Estimated energy supply balance for 2010

Million tonnes of oil equivalent											
SUPPLY	Coal & peat	Crude oil*	Oil products	Natural gas	Nuclear	Hydro	Geotherm. solar etc.	Biofuels & waste	Electricity	Heat	Total
Production	44.89	3.32	-	9.73	36.63	1.63	5.15	27.84	-	-	129.20
Imports	32.37	95.24	35.73	80.18	-	-	-	0.00	3.69	-	247.23
Exports	-0.95	-0.72	-17.87	-12.96	-	-	-	-	-4.98	-0.01	-37.48
Intl. marine bunkers	-	-	-2.75	-	-	-	-	-	-	-	-2.75
Intl. aviation bunkers	-	-	-7.35	-	-	-	-	-	-	-	-7.35
Stock changes	0.11	0.10	-0.28	2.73	-	-	-	-0.00	-	-	2.65
<b>TPES</b>	<b>76.42</b>	<b>97.95</b>	<b>7.48</b>	<b>79.69</b>	<b>36.63</b>	<b>1.63</b>	<b>5.15</b>	<b>27.84</b>	<b>-1.29</b>	<b>-0.01</b>	<b>331.50</b>
Electricity and Heat Output											
Elec. generated - TWh	270.53	-	7.50	84.50	140.56	19.00	51.55	40.44	-	-	614.07
Heat generated - PJ	161.33	-	8.19	250.28	-	-	1.06	73.16	-	-	494.02

\* Includes crude oil, NGL, refinery feedstocks, additives and other hydrocarbons.

## Key indicators

	1960	1971	1980	1990	2000	2008	2009	2010e
Energy production (Mtoe)	125.3	175.2	185.6	186.2	135.3	133.5	127.1	129.2
Net imports (Mtoe)	16.4	143.3	183.4	167.3	205.7	210.9	202.9	209.8
Total primary energy supply (Mtoe)	142.2	305.1	357.2	351.4	337.3	334.7	318.5	331.5
Net oil imports (Mtoe)	29.0	141.3	148.9	122.1	126.9	117.1	110.8	112.4
Oil supply (Mtoe)	30.6	140.6	143.9	121.6	125.4	111.1	105.0	105.4
Electricity consumption (TWh)*	115.5	318.3	453.9	527.4	545.5	587.0	555.2	581.0
GDP (billion 2000 USD)	597.2 e	950.5	1225.9	1543.2	1900.2	2097.7	1998.7	2071.2
GDP PPP (billion 2000 USD)	670.3 e	1066.8	1375.9	1732.0	2132.7	2354.3	2243.2	2324.6
Population (millions)	71.22 e	78.35	78.30	79.36	82.19	82.12	81.88	81.75
Industrial production index (2005=100)	33.80	59.60	71.00	85.70	93.90	113.70	94.10	105.00
Total self-sufficiency**	0.8810	0.5744	0.5197	0.5298	0.4012	0.3990	0.3990	0.3897
Coal and peat self-sufficiency**	1.0769	1.0585	1.0151	0.9472	0.7147	0.6181	0.6382	0.5874
Oil self-sufficiency**	0.1843	0.0549	0.0393	0.0387	0.0314	0.0382	0.0369	0.0315
Natural gas self-sufficiency**	1.0000	0.7212	0.3177	0.2461	0.2199	0.1478	0.1452	0.1221
TPES/GDP (toe per thousand 2000 USD)	0.2381 e	0.3209	0.2914	0.2277	0.1775	0.1596	0.1594	0.1600
TPES/GDP PPP (toe per thousand 2000 USD)	0.2121 e	0.2859	0.2596	0.2029	0.1582	0.1422	0.1420	0.1426
TPES/population (toe per capita)	1.9963 e	3.8937	4.5615	4.4278	4.1039	4.0758	3.8904	4.0552
Net oil imports/GDP (toe per thousand 2000 USD)	0.0486 e	0.1487	0.1214	0.0791	0.0668	0.0558	0.0555	0.0543
Oil supply/GDP (toe per thousand 2000 USD)	0.0512 e	0.1479	0.1174	0.0788	0.0660	0.0530	0.0525	0.0509
Oil supply/population (toe per capita)	0.4298 e	1.7943	1.8373	1.5327	1.5257	1.3532	1.2827	1.2897
Elect. cons./GDP (kWh per 2000 USD)	0.1935 e	0.3349	0.3702	0.3418	0.2871	0.2798	0.2778	0.2805
Elect. cons./population (kWh per capita)	1622 e	4063	5796	6646	6637	7148	6781	7108
Industry cons.***/industrial production (2005=100)	167.75	190.96	173.60	125.88	98.56	84.69	90.56	..
Industry oil cons.***/industrial production (2005=100)	98.72	257.34	195.16	118.35	112.05	84.72	94.51	..

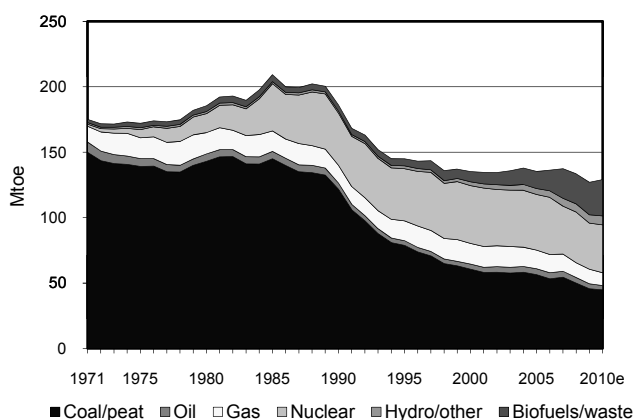
\* Electricity consumption equals domestic supply less losses.

\*\* Production divided by TPES.

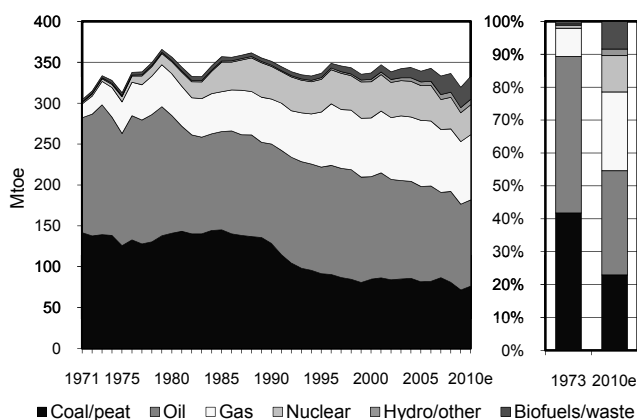
\*\*\* Includes non-energy use.

## Germany

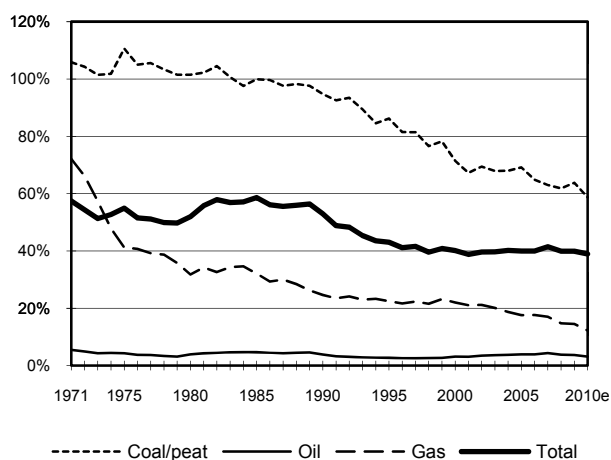
**Figure 1. Energy production**



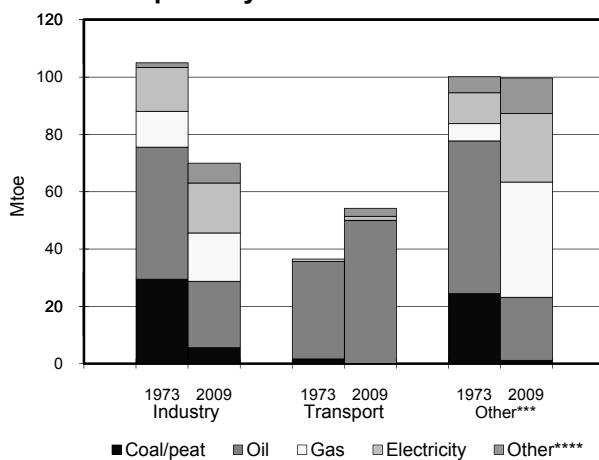
**Figure 2. Total primary energy supply\***



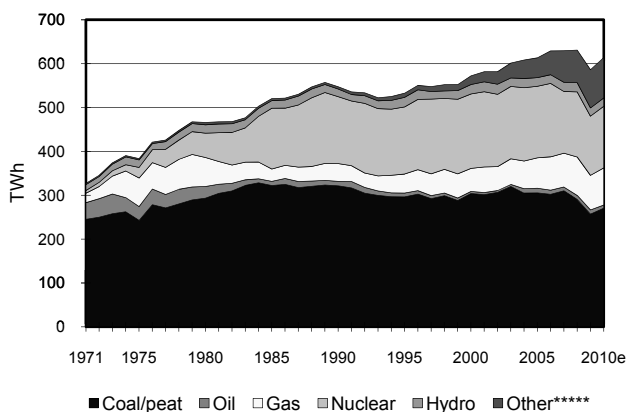
**Figure 3. Energy self-sufficiency**



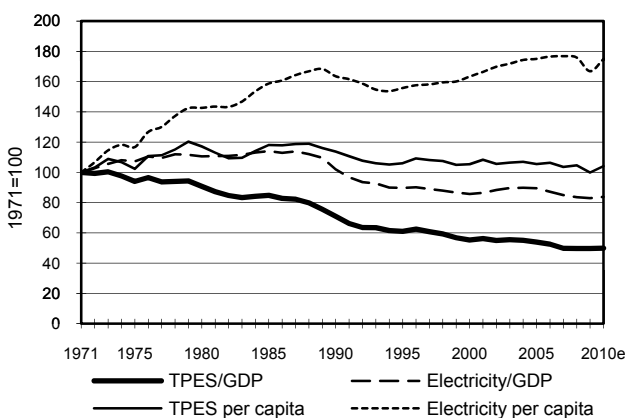
**Figure 4. Breakdown of sectorial final consumption by source in 1973 and 2009\*\***



**Figure 5. Electricity generation by fuel**



**Figure 6. Selected indicators**



\* Excluding electricity trade.

\*\* Includes non-energy use.

\*\*\* Includes residential, commercial and public services, agriculture/forestry, fishing and non-specified.

\*\*\*\* Includes biofuels and waste, direct use of geothermal/solar thermal and heat produced in CHP/heat plants.

\*\*\*\*\* Includes geothermal, solar, wind, biofuels and waste, etc.

## Greece : 2008

Million tonnes of oil equivalent											
<b>SUPPLY AND CONSUMPTION</b>	Coal & peat	Crude oil*	Oil products	Natural gas	Nuclear	Hydro	Geotherm. solar etc.	Biofuels & waste	Electricity	Heat	Total
Production	8.13	0.06	-	0.01	-	0.28	0.38	0.99 e	-	-	9.86
Imports	0.42	21.38	6.77	3.51	-	-	-	0.06	0.65	-	32.78
Exports	-0.00	-1.06	-6.38	-	-	-	-	-	-0.17	-	-7.61
Intl. marine bunkers	-	-	-3.06	-	-	-	-	-	-	-	-3.06
Intl. aviation bunkers	-	-	-0.99	-	-	-	-	-	-	-	-0.99
Stock changes	-0.22	-0.18	-0.14	-0.01	-	-	-	-	-	-	-0.56
<b>TPES</b>	<b>8.32</b>	<b>20.19</b>	<b>-3.80</b>	<b>3.51</b>	<b>-</b>	<b>0.28</b>	<b>0.38</b>	<b>1.05</b>	<b>0.48</b>	<b>-</b>	<b>30.42</b>
Transfers	-	1.57	-1.56	-	-	-	-	-	-	-	0.02
Statistical differences	0.23	-0.14	0.48	0.03	-	-	-	-	-	-	0.60
Electricity plants	-6.09	-	-2.07	-2.42	-	-0.28	-0.19	-0.03	4.56	-	-6.53
CHP plants	-2.07	-	-0.30	-0.07	-	-	-	-0.01	0.85	0.04	-1.55
Heat plants	-	-	-	-	-	-	-	-	-	-	-
Blast furnaces	-	-	-	-	-	-	-	-	-	-	-
Gas works	-	-	-	-	-	-	-	-	-	-	-
Coke/pat. fuel/BKB plants	0.00	-	-	-	-	-	-	-	-	-	0.00
Oil refineries	-	-21.62	22.04	-	-	-	-	-	-	-	0.42
Petrochemical plants	-	-	-	-	-	-	-	-	-	-	-
Liquefaction plants	-	-	-	-	-	-	-	-	-	-	-
Other transformation	-	-	-	-	-	-	-	-0.00 e	-	-	-0.00
Energy industry own use	-	-	-1.13	-0.03	-	-	-	-	-0.59	-	-1.75
Losses	-	-	-	-0.00	-	-	-	-	-0.43	-	-0.44
<b>TFC</b>	<b>0.40</b>	<b>-</b>	<b>13.67</b>	<b>1.00</b>	<b>-</b>	<b>-</b>	<b>0.19</b>	<b>1.01</b>	<b>4.87</b>	<b>0.04</b>	<b>21.19</b>
<b>INDUSTRY</b>	<b>0.39</b>	<b>-</b>	<b>1.77</b>	<b>0.45</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.26</b>	<b>1.33</b>	<b>-</b>	<b>4.21</b>
Iron and steel	-	-	0.00	0.07	-	-	-	-	0.15	-	0.23
Chemical and petrochem.	-	-	0.15	0.04	-	-	-	-	0.07	-	0.26
Non-ferrous metals	0.15	-	0.19	0.06	-	-	-	-	0.34	-	0.74
Non-metallic minerals	0.24	-	0.61	0.08	-	-	-	0.00	0.19	-	1.12
Transport equipment	-	-	0.02	-	-	-	-	-	0.01	-	0.03
Machinery	-	-	0.01	0.00	-	-	-	-	0.06	-	0.07
Mining and quarrying	-	-	0.06	-	-	-	-	-	0.03	-	0.09
Food and tobacco	-	-	0.15	0.08	-	-	-	0.24	0.19	-	0.66
Paper, pulp and printing	-	-	0.05	0.03	-	-	-	-	0.05	-	0.14
Wood and wood products	-	-	0.00	0.00	-	-	-	0.02	0.02	-	0.05
Construction	-	-	0.15	-	-	-	-	-	0.00	-	0.15
Textile and leather	-	-	0.04	0.06	-	-	-	-	0.07	-	0.17
Non-specified	0.00	-	0.34	0.01	-	-	-	-	0.14	-	0.50
<b>TRANSPORT</b>	<b>-</b>	<b>-</b>	<b>7.42</b>	<b>0.02</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.07</b>	<b>0.02</b>	<b>-</b>	<b>7.53</b>
Domestic aviation	-	-	0.34	-	-	-	-	-	-	-	0.34
Road	-	-	6.44	0.01	-	-	-	0.07	-	-	6.52
Rail	-	-	0.04	-	-	-	-	-	0.01	-	0.04
Pipeline transport	-	-	-	0.01	-	-	-	-	-	-	0.01
Domestic navigation	-	-	0.59	-	-	-	-	-	-	-	0.59
Non-specified	-	-	-	-	-	-	-	-	0.01	-	0.01
<b>OTHER</b>	<b>0.01</b>	<b>-</b>	<b>3.75</b>	<b>0.34</b>	<b>-</b>	<b>-</b>	<b>0.19</b>	<b>0.68</b>	<b>3.52</b>	<b>0.04</b>	<b>8.52</b>
Residential	0.01	-	2.56	0.21	-	-	0.18	0.66	1.56	0.04	5.21
Comm. and public services	-	-	0.39	0.13	-	-	0.00	0.00	1.69	-	2.22
Agriculture/forestry	-	-	0.80	-	-	-	0.01	0.01	0.27	-	1.09
Fishing	-	-	-	-	-	-	0.00	-	-	-	0.00
Non-specified	-	-	-	-	-	-	-	-	-	-	-
<b>NON-ENERGY USE</b>	<b>0.00</b>	<b>-</b>	<b>0.74</b>	<b>0.19</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.93</b>
in industry/transf./energy	0.00	-	0.68	0.19	-	-	-	-	-	-	0.87
of which: feedstocks	-	-	0.20	0.19	-	-	-	-	-	-	0.39
in transport	-	-	0.06	-	-	-	-	-	-	-	0.06
in other	-	-	0.00	-	-	-	-	-	-	-	0.00
<b>Electricity and Heat Output</b>											
<b>Elec. generated - TWh</b>	<b>33.36</b>	<b>-</b>	<b>9.99</b>	<b>13.80</b>	<b>-</b>	<b>3.31</b>	<b>2.25</b>	<b>0.21</b>	<b>-</b>	<b>-</b>	<b>62.91</b>
Electricity plants	24.77	-	9.17	13.31	-	3.31	2.25	0.17	-	-	52.98
CHP plants	8.58	-	0.82	0.49	-	-	-	0.04	-	-	9.93
<b>Heat generated - PJ</b>	<b>1.83</b>	<b>-</b>	<b>0.01</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1.84</b>
CHP plants	1.83	-	0.01	-	-	-	-	-	-	-	1.84
Heat plants	-	-	-	-	-	-	-	-	-	-	-

\* Includes crude oil, NGL, refinery feedstocks, additives and other hydrocarbons.

## Greece : 2009

Million tonnes of oil equivalent											
SUPPLY AND CONSUMPTION	Coal & peat	Crude oil*	Oil products	Natural gas	Nuclear	Hydro	Geotherm. solar etc.	Biofuels & waste	Electricity	Heat	Total
Production	8.18	0.07	-	0.01	-	0.46	0.43	0.93 e	-	-	10.08
Imports	0.17	20.47	6.99	2.96	-	-	-	0.06	0.65	-	31.30
Exports	-0.00	-1.00	-7.84	-	-	-	-	-	-0.28	-	-9.12
Intl. marine bunkers	-	-	-2.60	-	-	-	-	-	-	-	-2.60
Intl. aviation bunkers	-	-	-0.85	-	-	-	-	-	-	-	-0.85
Stock changes	0.08	0.13	0.42	-0.00	-	-	-	-	-	-	0.63
<b>TPES</b>	<b>8.43</b>	<b>19.67</b>	<b>-3.88</b>	<b>2.97</b>	<b>-</b>	<b>0.46</b>	<b>0.43</b>	<b>0.99</b>	<b>0.38</b>	<b>-</b>	<b>29.44</b>
Transfers	-	1.55	-1.55	-	-	-	-	-	-	-	-0.00
Statistical differences	0.04	-0.04	0.33	-0.03	-	-	-	-	-	-	0.29
Electricity plants	-6.48	-	-1.61	-1.65	-	-0.46	-0.22	-0.05	4.45	-	-6.02
CHP plants	-1.78	-	-0.24	-0.16	-	-	-	-0.01	0.80	0.05	-1.34
Heat plants	-	-	-	-	-	-	-	-	-	-	-
Blast furnaces	-	-	-	-	-	-	-	-	-	-	-
Gas works	-	-	-	-	-	-	-	-	-	-	-
Coke/pat. fuel/BKB plants	-	-	-	-	-	-	-	-	-	-	-
Oil refineries	-	-21.19	21.48	-	-	-	-	-	-	-	0.29
Petrochemical plants	-	-	-	-	-	-	-	-	-	-	-
Liquefaction plants	-	-	-	-	-	-	-	-	-	-	-
Other transformation	-	-	-	-	-	-	-	-0.00 e	-	-	-0.00
Energy industry own use	-0.03	-	-1.06	-0.03	-	-	-	-	-0.65	-	-1.77
Losses	-	-	-	-0.02	-	-	-	-	-0.28	-	-0.30
<b>TFC</b>	<b>0.17</b>	<b>-</b>	<b>13.46</b>	<b>1.07</b>	<b>-</b>	<b>-</b>	<b>0.20</b>	<b>0.93</b>	<b>4.71</b>	<b>0.05</b>	<b>20.59</b>
<b>INDUSTRY</b>	<b>0.17</b>	<b>-</b>	<b>1.43</b>	<b>0.41</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.24</b>	<b>1.21</b>	<b>-</b>	<b>3.46</b>
Iron and steel	-	-	0.00	0.06	-	-	-	-	0.12	-	0.19
Chemical and petrochem.	-	-	0.12	0.05	-	-	-	-	0.06	-	0.22
Non-ferrous metals	0.07	-	0.13	0.06	-	-	-	-	0.35	-	0.61
Non-metallic minerals	0.08	-	0.54	0.08	-	-	-	0.00	0.15	-	0.86
Transport equipment	-	-	0.02	-	-	-	-	-	0.01	-	0.03
Machinery	-	-	0.00	0.00	-	-	-	-	0.00	-	0.01
Mining and quarrying	-	-	0.05	-	-	-	-	-	0.02	-	0.08
Food and tobacco	-	-	0.11	0.10	-	-	-	0.22	0.19	-	0.62
Paper, pulp and printing	-	-	0.04	0.03	-	-	-	-	0.05	-	0.12
Wood and wood products	-	-	0.00	0.00	-	-	-	0.02	0.02	-	0.04
Construction	-	-	0.15	-	-	-	-	-	0.00	-	0.15
Textile and leather	-	-	0.02	0.02	-	-	-	-	0.05	-	0.09
Non-specified	0.01	-	0.23	0.01	-	-	-	-	0.17	-	0.43
<b>TRANSPORT</b>	<b>-</b>	<b>-</b>	<b>8.24</b>	<b>0.02</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.08</b>	<b>0.02</b>	<b>-</b>	<b>8.36</b>
Domestic aviation	-	-	0.29	-	-	-	-	-	-	-	0.29
Road	-	-	7.04	0.01	-	-	-	0.08	-	-	7.13
Rail	-	-	0.03	-	-	-	-	-	0.01	-	0.04
Pipeline transport	-	-	-	0.00	-	-	-	-	-	-	0.00
Domestic navigation	-	-	0.88	-	-	-	-	-	-	-	0.88
Non-specified	-	-	-	-	-	-	-	-	0.01	-	0.01
<b>OTHER</b>	<b>0.00</b>	<b>-</b>	<b>3.13</b>	<b>0.40</b>	<b>-</b>	<b>-</b>	<b>0.20</b>	<b>0.61</b>	<b>3.48</b>	<b>0.05</b>	<b>7.87</b>
Residential	0.00	-	2.20	0.26	-	-	0.19	0.59	1.56	0.05	4.85
Comm. and public services	-	-	0.29	0.14	-	-	0.00	0.00	1.70	-	2.14
Agriculture/forestry	-	-	0.63	-	-	-	0.01	0.01	0.22	-	0.87
Fishing	-	-	-	-	-	-	0.00	-	-	-	0.00
Non-specified	-	-	-	-	-	-	-	-	-	-	-
<b>NON-ENERGY USE</b>	<b>-</b>	<b>-</b>	<b>0.66</b>	<b>0.25</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.91</b>
in industry/transf./energy	-	-	0.62	0.25	-	-	-	-	-	-	0.87
of which: feedstocks	-	-	0.23	0.25	-	-	-	-	-	-	0.48
in transport	-	-	0.03	-	-	-	-	-	-	-	0.03
in other	-	-	0.00	-	-	-	-	-	-	-	0.00
<b>Electricity and Heat Output</b>											
<b>Elec. generated - TWh</b>	<b>34.19</b>	<b>-</b>	<b>7.68</b>	<b>11.02</b>	<b>-</b>	<b>5.37</b>	<b>2.59</b>	<b>0.24</b>	<b>-</b>	<b>-</b>	<b>61.09</b>
Electricity plants	26.83	-	6.90	9.86	-	5.37	2.59	0.18	-	-	51.75
CHP plants	7.35	-	0.78	1.16	-	-	-	0.05	-	-	9.34
<b>Heat generated - PJ</b>	<b>2.02</b>	<b>-</b>	<b>0.03</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>2.05</b>
CHP plants	2.02	-	0.03	-	-	-	-	-	-	-	2.05
Heat plants	-	-	-	-	-	-	-	-	-	-	-

\* Includes crude oil, NGL, refinery feedstocks, additives and other hydrocarbons.



## Greece

## Estimated energy supply balance for 2010

Million tonnes of oil equivalent											
SUPPLY	Coal & peat	Crude oil*	Oil products	Natural gas	Nuclear	Hydro	Geotherm. solar etc.	Biofuels & waste	Electricity	Heat	Total
Production	7.12	0.10	-	0.00	-	0.57	0.42	0.97	-	-	9.19
Imports	0.39	21.31	5.75	3.20	-	-	-	0.06	0.73	-	31.44
Exports	-	-0.84	-8.86	-	-	-	-	-	-0.22	-	-9.93
Intl. marine bunkers	-	-	-2.82	-	-	-	-	-	-	-	-2.82
Intl. aviation bunkers	-	-	-0.78	-	-	-	-	-	-	-	-0.78
Stock changes	-0.21	0.33	-0.21	-0.00	-	-	-	-	-	-	-0.08
<b>TPES</b>	<b>7.31</b>	<b>20.91</b>	<b>-6.93</b>	<b>3.19</b>	<b>-</b>	<b>0.57</b>	<b>0.42</b>	<b>1.04</b>	<b>0.51</b>	<b>-</b>	<b>27.02</b>
Electricity and Heat Output											
Elec. generated - TWh	27.42	-	7.68	16.54	-	6.62	2.27	0.25	-	-	60.76
Heat generated - PJ	1.91	-	0.04	-	-	-	-	-	-	-	1.94

\* Includes crude oil, NGL, refinery feedstocks, additives and other hydrocarbons.

## Key indicators

	1960	1971	1980	1990	2000	2008	2009	2010e
Energy production (Mtoe)	0.3	2.1	3.7	9.2	10.0	9.9	10.1	9.2
Net imports (Mtoe)	2.7	7.7	13.7	15.3	21.8	25.2	22.2	21.5
Total primary energy supply (Mtoe)	2.4	8.7	15.0	21.4	27.1	30.4	29.4	27.0
Net oil imports (Mtoe)	2.6	7.4	13.2	14.3	19.3	20.7	18.6	17.4
Oil supply (Mtoe)	2.0	6.4	10.9	12.1	14.9	16.4	15.8	14.0
Electricity consumption (TWh)*	2.0	10.6	21.7	32.9	49.6	64.3	62.5	64.4
GDP (billion 2000 USD)	26.6 e	64.8	94.2	100.8	127.1	171.6	168.1	160.6
GDP PPP (billion 2000 USD)	42.1 e	102.5	148.9	159.5	201.0	271.4	265.9	254.0
Population (millions)	8.47 e	8.98	9.81	10.34	10.92	11.24	11.28	11.28
Industrial production index (2005=100)	..	43.60	76.10	83.70	100.60	102.40	92.40	86.90
Total self-sufficiency**	0.1338	0.2399	0.2467	0.4290	0.3687	0.3242	0.3424	0.3401
Coal and peat self-sufficiency**	0.7141	0.8671	0.9048	0.8825	0.9097	0.9769	0.9701	0.9748
Oil self-sufficiency**	..	..	-	0.0694	0.0172	0.0035	0.0046	0.0075
Natural gas self-sufficiency**	..	..	-	1.0000	0.0248	0.0042	0.0039	0.0004
TPES/GDP (toe per thousand 2000 USD)	0.0905 e	0.1342	0.1591	0.2127	0.2131	0.1773	0.1751	0.1682
TPES/GDP PPP (toe per thousand 2000 USD)	0.0572 e	0.0848	0.1006	0.1345	0.1348	0.1121	0.1107	0.1064
TPES/population (toe per capita)	0.2843 e	0.9673	1.5273	2.0742	2.4811	2.7071	2.6091	2.3944
Net oil imports/GDP (toe per thousand 2000 USD)	0.0990 e	0.1148	0.1404	0.1422	0.1520	0.1206	0.1107	0.1081
Oil supply/GDP (toe per thousand 2000 USD)	0.0741 e	0.0986	0.1160	0.1197	0.1171	0.0955	0.0939	0.0871
Oil supply/population (toe per capita)	0.2328 e	0.7113	1.1134	1.1677	1.3630	1.4588	1.3993	1.2393
Elect. cons./GDP (kWh per 2000 USD)	0.0757 e	0.1634	0.2302	0.3258	0.3900	0.3747	0.3718	0.4007
Elect. cons./population (kWh per capita)	238 e	1178	2209	3178	4540	5723	5540	5704
Industry cons.***/industrial production (2005=100)	..	125.88	118.73	112.91	105.24	102.70	97.08	..
Industry oil cons.***/industrial production (2005=100)	..	177.74	169.47	103.97	105.32	101.52	94.46	..

\* Electricity consumption equals domestic supply less losses.

\*\* Production divided by TPES.

\*\*\* Includes non-energy use.

Greece

Figure 1. Energy production

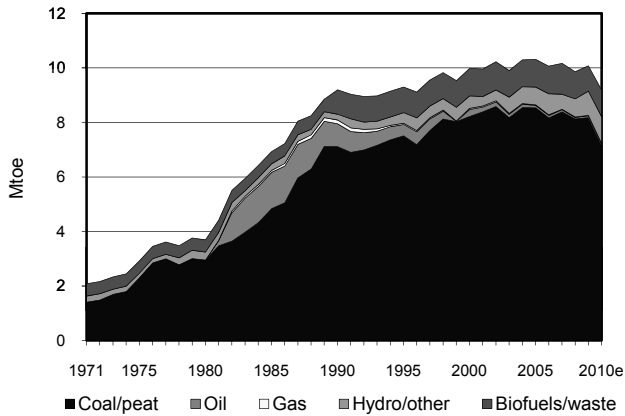


Figure 2. Total primary energy supply\*

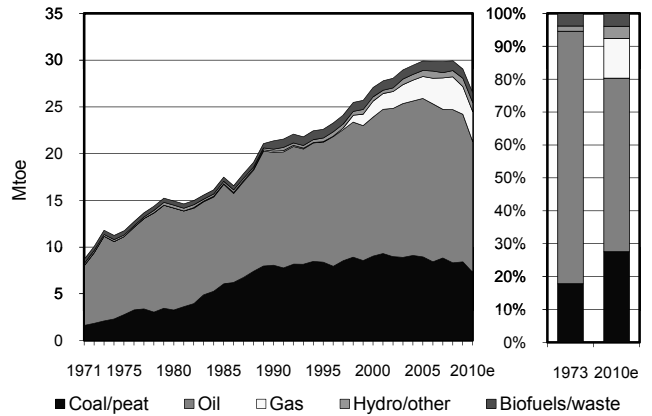


Figure 3. Energy self-sufficiency

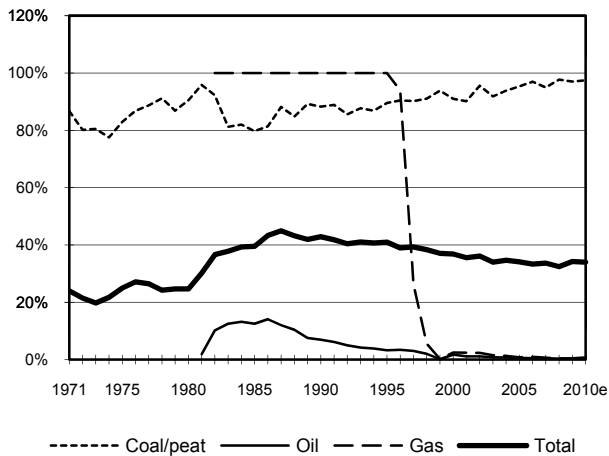


Figure 4. Breakdown of sectorial final consumption by source in 1973 and 2009\*\*

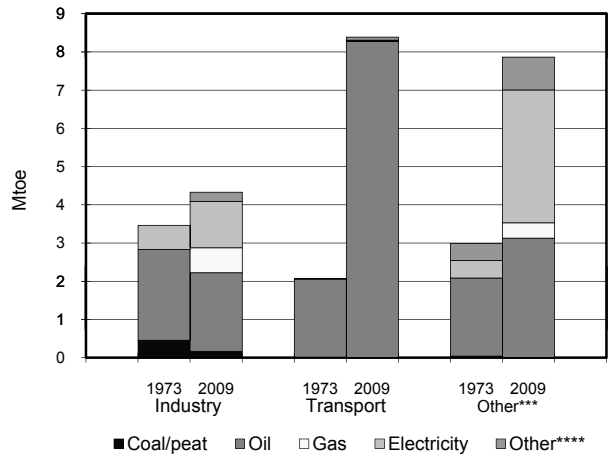


Figure 5. Electricity generation by fuel

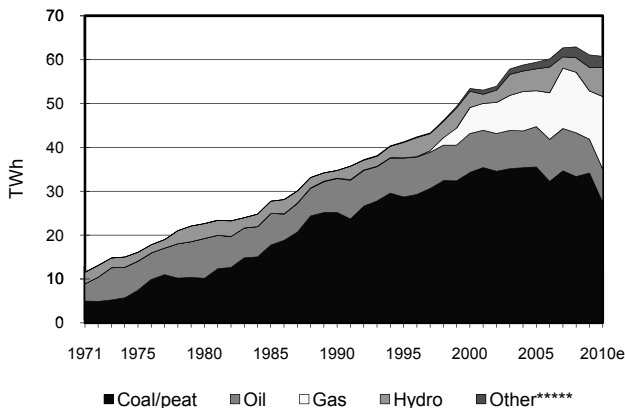
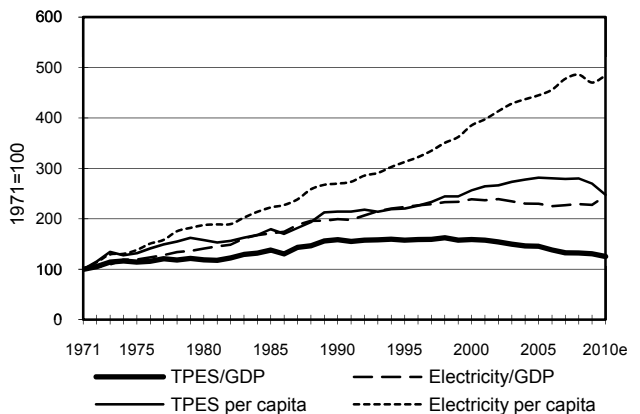


Figure 6. Selected indicators



\* Excluding electricity trade.  
 \*\* Includes non-energy use.  
 \*\*\* Includes residential, commercial and public services, agriculture/forestry, fishing and non-specified.  
 \*\*\*\* Includes biofuels and waste, direct use of geothermal/solar thermal and heat produced in CHP/heat plants.  
 \*\*\*\*\* Includes geothermal, solar, wind, biofuels and waste, etc.

## Hungary : 2008

Million tonnes of oil equivalent											
SUPPLY AND CONSUMPTION	Coal & peat	Crude oil*	Oil products	Natural gas	Nuclear	Hydro	Geotherm. solar etc.	Biofuels & waste	Electricity	Heat	Total
Production	1.69	1.25	-	2.01	3.87	0.02	0.12	1.54	-	-	10.50
Imports	1.70	6.88	2.39	9.32	-	-	-	0.07 e	1.10	-	21.46
Exports	-0.29	-0.49	-2.82	-0.02	-	-	-	-0.09 e	-0.76	-	-4.47
Intl. marine bunkers	-	-	-	-	-	-	-	-	-	-	-
Intl. aviation bunkers	-	-	-0.28	-	-	-	-	-	-	-	-0.28
Stock changes	-0.07	-0.01	0.08	-0.75	-	-	-	0.00 e	-	-	-0.75
<b>TPES</b>	<b>3.04</b>	<b>7.62</b>	<b>-0.63</b>	<b>10.56</b>	<b>3.87</b>	<b>0.02</b>	<b>0.12</b>	<b>1.52</b>	<b>0.34</b>	<b>-</b>	<b>26.46</b>
Transfers	-	0.54	-0.50	-	-	-	-	-	-	-	0.04
Statistical differences	-0.01	-0.01	0.01	-	-	-	-	-0.00	-	-	-0.02
Electricity plants	-1.73	-	-0.08	-1.54	-3.86	-0.02	-0.02	-0.53	2.69	-	-5.08
CHP plants	-0.22	-	-0.01	-1.84	-0.01	-	-	-0.14	0.75	0.94	-0.54
Heat plants	-0.12	-	-0.00	-0.34	-	-	-0.01	-0.01	-	0.40	-0.08
Blast furnaces	-0.24 e	-	-	-0.03	-	-	-	-	-	-	-0.27
Gas works	-	-	-	-	-	-	-	-	-	-	-
Coke/pat. fuel/BKB plants	-0.11	-	-0.01	-0.00	-	-	-	-	-	-	-0.12
Oil refineries	-	-8.52	8.51	-	-	-	-	-	-	-	-0.00
Petrochemical plants	-	0.37	-0.39	-	-	-	-	-	-	-	-0.02
Liquefaction plants	-	-	-	-	-	-	-	-	-	-	-
Other transformation	-	-	-	-	-	-	-	-	-	-	-
Energy industry own use	-0.09	-	-0.34	-0.16	-	-	-	-0.01	-0.49	-0.10	-1.19
Losses	-0.01	-	-	-0.18	-	-	-	-	-0.33	-0.08	-0.60
<b>TFC</b>	<b>0.51</b>	<b>0.01</b>	<b>6.55</b>	<b>6.47</b>	<b>-</b>	<b>-</b>	<b>0.09</b>	<b>0.84</b>	<b>2.95</b>	<b>1.16</b>	<b>18.58</b>
<b>INDUSTRY</b>	<b>0.35</b>	<b>-</b>	<b>0.20</b>	<b>1.21</b>	<b>-</b>	<b>-</b>	<b>0.00</b>	<b>0.12</b>	<b>0.85</b>	<b>0.36</b>	<b>3.10</b>
Iron and steel	0.23 e	-	0.00	0.06	-	-	-	-	0.06	0.02	0.37
Chemical and petrochem.	0.00	-	0.01	0.19	-	-	-	0.00	0.23	0.19	0.63
Non-ferrous metals	-	-	0.00	0.09	-	-	-	-	0.04	0.06	0.19
Non-metallic minerals	0.11	-	0.14	0.25	-	-	0.00	0.05	0.10	0.01	0.66
Transport equipment	-	-	0.00	0.06	-	-	0.00	-	0.08	0.01	0.15
Machinery	0.00	-	0.00	0.12	-	-	0.00	0.00	0.11	0.01	0.25
Mining and quarrying	-	-	0.01	0.00	-	-	-	-	0.00	-	0.01
Food and tobacco	0.00	-	0.01	0.29	-	-	-	0.03	0.11	0.02	0.45
Paper, pulp and printing	-	-	0.01	0.07	-	-	-	0.01	0.04	0.04	0.17
Wood and wood products	-	-	-	0.01	-	-	-	0.03	0.01	-	0.05
Construction	0.00	-	0.03	0.02	-	-	-	-	0.01	0.00	0.06
Textile and leather	-	-	-	0.01	-	-	0.00	0.00	0.01	0.00	0.02
Non-specified	-	-	-	0.04	-	-	-	0.00	0.04	0.01	0.09
<b>TRANSPORT</b>	<b>-</b>	<b>-</b>	<b>4.26</b>	<b>0.00</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.16</b>	<b>0.10</b>	<b>-</b>	<b>4.53</b>
Domestic aviation	-	-	-	-	-	-	-	-	-	-	-
Road	-	-	4.20	0.00	-	-	-	0.16	-	-	4.36
Rail	-	-	0.06	-	-	-	-	-	0.10	-	0.16
Pipeline transport	-	-	-	-	-	-	-	-	-	-	-
Domestic navigation	-	-	0.00	-	-	-	-	-	-	-	0.00
Non-specified	-	-	-	-	-	-	-	-	-	-	-
<b>OTHER</b>	<b>0.17</b>	<b>-</b>	<b>0.38</b>	<b>4.90</b>	<b>-</b>	<b>-</b>	<b>0.09</b>	<b>0.55</b>	<b>2.00</b>	<b>0.79</b>	<b>8.88</b>
Residential	0.16	-	0.10	3.29	-	-	0.00	0.46	0.99	0.55	5.57
Comm. and public services	0.00	-	0.02	1.44	-	-	0.08	0.08	0.93	0.24	2.79
Agriculture/forestry	0.00	-	0.26	0.17	-	-	0.01	0.01	0.08	0.00	0.53
Fishing	-	-	-	-	-	-	-	-	-	-	-
Non-specified	-	-	-	-	-	-	-	-	-	-	-
<b>NON-ENERGY USE</b>	<b>-</b>	<b>0.01</b>	<b>1.71</b>	<b>0.35</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>2.07</b>
in industry/transf./energy	-	0.01	1.65	0.35	-	-	-	-	-	-	2.00
of which: feedstocks	-	0.01	1.42	0.35	-	-	-	-	-	-	1.78
in transport	-	-	0.06	-	-	-	-	-	-	-	0.06
in other	-	-	-	-	-	-	-	-	-	-	-
<b>Electricity and Heat Output</b>											
<b>Elec. generated - TWh</b>	<b>7.21</b>	<b>-</b>	<b>0.36</b>	<b>15.18</b>	<b>14.82</b>	<b>0.21</b>	<b>0.21</b>	<b>2.05</b>	<b>-</b>	<b>-</b>	<b>40.03</b>
Electricity plants	6.76	-	0.33	7.26	14.82	0.21	0.21	1.74	-	-	31.33
CHP plants	0.44	-	0.02	7.92	-	-	-	0.31	-	-	8.70
<b>Heat generated - PJ</b>	<b>9.56</b>	<b>-</b>	<b>0.49</b>	<b>43.38</b>	<b>0.55</b>	<b>-</b>	<b>0.20</b>	<b>1.94</b>	<b>-</b>	<b>-</b>	<b>56.13</b>
CHP plants	5.53	-	0.39	31.22	0.55	-	-	1.74	-	-	39.44
Heat plants	4.03	-	0.10	12.16	-	-	0.20	0.20	-	-	16.68

\* Includes crude oil, NGL, refinery feedstocks, additives and other hydrocarbons.

## Hungary : 2009

Million tonnes of oil equivalent											
SUPPLY AND CONSUMPTION	Coal & peat	Crude oil*	Oil products	Natural gas	Nuclear	Hydro	Geotherm. solar etc.	Biofuels & waste	Electricity	Heat	Total
Production	1.56	1.21	-	2.29	4.03	0.02	0.13	1.77	-	-	11.00
Imports	1.11	5.68	2.23	7.90	-	-	-	0.05 e	0.94	-	17.91
Exports	-0.16	-0.02	-2.28	-0.07	-	-	-	-0.06 e	-0.47	-	-3.06
Intl. marine bunkers	-	-	-	-	-	-	-	-	-	-	-
Intl. aviation bunkers	-	-	-0.24	-	-	-	-	-	-	-	-0.24
Stock changes	0.06	0.10	0.05	-0.97	-	-	-	-0.00 e	-	-	-0.77
<b>TPES</b>	<b>2.56</b>	<b>6.97</b>	<b>-0.23</b>	<b>9.15</b>	<b>4.03</b>	<b>0.02</b>	<b>0.13</b>	<b>1.76</b>	<b>0.47</b>	<b>-</b>	<b>24.86</b>
Transfers	-	0.33	-0.12	-	-	-	-	-	-	-	0.21
Statistical differences	-0.01	0.01	-	-	-	-	-	0.00	-	-	0.00
Electricity plants	-1.56	-	-0.11	-0.85	-4.02	-0.02	-0.03	-0.59	2.46	-	-4.73
CHP plants	-0.18	-	-0.07	-1.55	-0.01	-	-	-0.16	0.63	0.92	-0.42
Heat plants	-0.08	-	-0.04	-0.30	-	-	-0.01	-0.00	-	0.35	-0.08
Blast furnaces	-0.24 e	-	-	-0.01	-	-	-	-	-	-	-0.25
Gas works	-	-	-	-	-	-	-	-	-	-	-
Coke/pat. fuel/BKB plants	-0.06	-	-0.01	-0.00	-	-	-	-	-	-	-0.07
Oil refineries	-	-7.65	7.64	-	-	-	-	-	-	-	-0.01
Petrochemical plants	-	0.35	-0.37	-	-	-	-	-	-	-	-0.02
Liquefaction plants	-	-	-	-	-	-	-	-	-	-	-
Other transformation	-	-	-	-	-	-	-	-	-	-	-
Energy industry own use	-0.07	-	-0.34	-0.17	-	-	-	-0.01	-0.40	-0.09	-1.08
Losses	-0.00	-	-	-0.17	-	-	-	-	-0.31	-0.09	-0.57
<b>TFC</b>	<b>0.35</b>	<b>0.01</b>	<b>6.36</b>	<b>6.09</b>	<b>-</b>	<b>-</b>	<b>0.10</b>	<b>1.00</b>	<b>2.85</b>	<b>1.09</b>	<b>17.84</b>
<b>INDUSTRY</b>	<b>0.21</b>	<b>-</b>	<b>0.15</b>	<b>0.89</b>	<b>-</b>	<b>-</b>	<b>0.00</b>	<b>0.12</b>	<b>0.74</b>	<b>0.33</b>	<b>2.43</b>
Iron and steel	0.15 e	-	0.00	0.03	-	-	-	-	0.04	0.02	0.24
Chemical and petrochem.	-	-	0.00	0.13	-	-	-	0.00	0.19	0.18	0.50
Non-ferrous metals	-	-	-	0.07	-	-	-	-	0.03	0.04	0.14
Non-metallic minerals	0.05	-	0.10	0.16	-	-	0.00	0.06	0.08	0.00	0.45
Transport equipment	-	-	0.00	0.04	-	-	0.00	-	0.07	0.01	0.12
Machinery	0.00	-	0.00	0.11	-	-	0.00	0.00	0.11	0.01	0.23
Mining and quarrying	-	-	0.01	0.00	-	-	-	-	0.01	-	0.02
Food and tobacco	0.00	-	0.01	0.22	-	-	-	0.04	0.11	0.02	0.40
Paper, pulp and printing	-	-	0.00	0.05	-	-	-	0.01	0.03	0.04	0.14
Wood and wood products	-	-	-	0.01	-	-	-	0.00	0.01	-	0.03
Construction	0.01	-	0.02	0.01	-	-	-	-	0.01	0.00	0.04
Textile and leather	-	-	-	0.01	-	-	-	0.00	0.01	0.00	0.02
Non-specified	-	-	-	0.04	-	-	-	0.00	0.05	0.01	0.10
<b>TRANSPORT</b>	<b>-</b>	<b>-</b>	<b>4.23</b>	<b>0.00</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.17</b>	<b>0.10</b>	<b>-</b>	<b>4.51</b>
Domestic aviation	-	-	-	-	-	-	-	-	-	-	-
Road	-	-	4.17	0.00	-	-	-	0.17	-	-	4.34
Rail	-	-	0.06	-	-	-	-	-	0.10	-	0.17
Pipeline transport	-	-	-	-	-	-	-	-	-	-	-
Domestic navigation	-	-	0.00	-	-	-	-	-	-	-	0.00
Non-specified	-	-	-	-	-	-	-	-	-	-	-
<b>OTHER</b>	<b>0.14</b>	<b>-</b>	<b>0.35</b>	<b>4.88</b>	<b>-</b>	<b>-</b>	<b>0.09</b>	<b>0.71</b>	<b>2.01</b>	<b>0.76</b>	<b>8.95</b>
Residential	0.14	-	0.10	3.18	-	-	0.00	0.58	0.97	0.54	5.52
Comm. and public services	0.00	-	0.02	1.57	-	-	0.08	0.12	0.98	0.22	2.99
Agriculture/forestry	0.00	-	0.23	0.12	-	-	0.01	0.01	0.07	0.00	0.44
Fishing	-	-	-	-	-	-	-	-	0.00	-	0.00
Non-specified	-	-	-	-	-	-	-	-	-	-	-
<b>NON-ENERGY USE</b>	<b>-</b>	<b>0.01</b>	<b>1.62</b>	<b>0.32</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1.95</b>
in industry/transf./energy	-	0.01	1.57	0.32	-	-	-	-	-	-	1.89
<i>of which: feedstocks</i>	-	0.01	1.35	0.32	-	-	-	-	-	-	1.68
in transport	-	-	0.06	-	-	-	-	-	-	-	0.06
in other	-	-	-	-	-	-	-	-	-	-	-
<b>Electricity and Heat Output</b>											
<b>Elec. generated - TWh</b>	<b>6.42</b>	<b>-</b>	<b>0.63</b>	<b>10.42</b>	<b>15.43</b>	<b>0.23</b>	<b>0.33</b>	<b>2.45</b>	<b>-</b>	<b>-</b>	<b>35.91</b>
Electricity plants	6.05	-	0.50	3.94	15.43	0.23	0.33	2.07	-	-	28.55
CHP plants	0.36	-	0.13	6.48	-	-	-	0.38	-	-	7.36
<b>Heat generated - PJ</b>	<b>6.71</b>	<b>-</b>	<b>3.05</b>	<b>40.45</b>	<b>0.51</b>	<b>-</b>	<b>0.22</b>	<b>2.22</b>	<b>-</b>	<b>-</b>	<b>53.16</b>
CHP plants	4.20	-	1.73	30.00	0.51	-	-	2.09	-	-	38.53
Heat plants	2.51	-	1.32	10.45	-	-	0.22	0.14	-	-	14.64

\* Includes crude oil, NGL, refinery feedstocks, additives and other hydrocarbons.

## Hungary

## Estimated energy supply balance for 2010

Million tonnes of oil equivalent											
SUPPLY	Coal & peat	Crude oil*	Oil products	Natural gas	Nuclear	Hydro	Geotherm. solar etc.	Biofuels & waste	Electricity	Heat	Total
Production	1.57	1.06	-	2.23	4.12	0.02	0.15	1.83	-	-	10.98
Imports	1.40	6.03	2.44	7.91	-	-	-	0.12	0.85	-	18.75
Exports	-0.28	-0.01	-2.69	-0.19	-	-	-	-0.11	-0.40	-	-3.68
Intl. marine bunkers	-	-	-	-	-	-	-	-	-	-	-
Intl. aviation bunkers	-	-	-0.23	-	-	-	-	-	-	-	-0.23
Stock changes	0.01	-0.11	-0.06	-0.22	-	-	-	-0.00	-	-	-0.38
<b>TPES</b>	<b>2.70</b>	<b>6.97</b>	<b>-0.53</b>	<b>9.74</b>	<b>4.12</b>	<b>0.02</b>	<b>0.15</b>	<b>1.84</b>	<b>0.45</b>	<b>-</b>	<b>25.44</b>
Electricity and Heat Output											
Elec. generated - TWh	6.30	-	0.46	11.61	15.76	0.19	0.54	2.51	-	-	37.38
Heat generated - PJ	6.35	-	2.76	42.77	0.50	-	0.24	2.59	-	-	55.21

\* Includes crude oil, NGL, refinery feedstocks, additives and other hydrocarbons.

## Key indicators

	1960	1971	1980	1990	2000	2008	2009	2010e
Energy production (Mtoe)	..	11.9	14.5	14.6	11.6	10.5	11.0	11.0
Net imports (Mtoe)	..	7.7	14.3	14.2	13.9	17.0	14.9	15.1
Total primary energy supply (Mtoe)	..	19.0	28.4	28.7	25.0	26.5	24.9	25.4
Net oil imports (Mtoe)	..	5.1	8.3	6.4	5.2	6.0	5.6	5.8
Oil supply (Mtoe)	..	7.0	10.8	8.4	6.6	7.0	6.7	6.4
Electricity consumption (TWh)*	..	17.7	28.9	35.6	33.8	40.0	37.8	39.0
GDP (billion 2000 USD)	13.4 e	26.1 e	39.9 e	44.6 e	47.4	60.5	56.4	57.1
GDP PPP (billion 2000 USD)	35.0 e	68.2 e	104.2 e	116.7 e	123.9	158.1	147.5	149.2
Population (millions)	9.98 e	10.37	10.71	10.37	10.21	10.04	10.02	9.99
Industrial production index (2005=100)	..	..	53.20	51.90	76.00	118.50	97.60	107.80
Total self-sufficiency**	..	0.6225	0.5110	0.5090	0.4647	0.3967	0.4427	0.4315
Coal and peat self-sufficiency**	..	0.7879	0.7522	0.6758	0.7515	0.5576	0.6080	0.5827
Oil self-sufficiency**	..	0.2841	0.2337	0.2723	0.2536	0.1781	0.1790	0.1651
Natural gas self-sufficiency**	..	0.9500	0.6385	0.4276	0.2563	0.1899	0.2499	0.2289
TPES/GDP (toe per thousand 2000 USD)	..	0.7298 e	0.7116 e	0.6422 e	0.5277	0.4377	0.4407	0.4458
TPES/GDP PPP (toe per thousand 2000 USD)	..	0.2791 e	0.2721 e	0.2456 e	0.2018	0.1674	0.1685	0.1705
TPES/population (toe per capita)	..	1.8364	2.6481	2.7648	2.4483	2.6358	2.4802	2.5464
Net oil imports/GDP (toe per thousand 2000 USD)	..	0.1964 e	0.2086 e	0.1441 e	0.1100	0.0985	0.0995	0.1011
Oil supply/GDP (toe per thousand 2000 USD)	..	0.2686 e	0.2708 e	0.1871 e	0.1400	0.1157	0.1194	0.1128
Oil supply/population (toe per capita)	..	0.6758	1.0079	0.8055	0.6494	0.6967	0.6719	0.6443
Elect. cons./GDP (kWh per 2000 USD)	..	0.6802 e	0.7252 e	0.7966 e	0.7132	0.6624	0.6705	0.6828
Elect. cons./population (kWh per capita)	..	1712	2699	3430	3309	3989	3773	3900
Industry cons.***/industrial production (2005=100)	..	..	348.04	281.16	119.76	80.84	83.22	..
Industry oil cons.***/industrial production (2005=100)	..	..	289.50	190.73	95.45	74.49	84.08	..

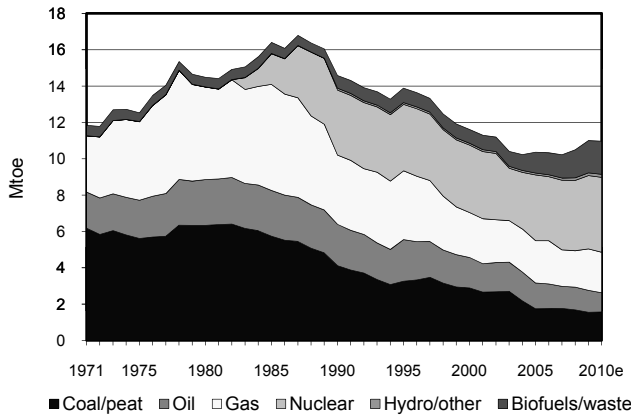
\* Electricity consumption equals domestic supply less losses.

\*\* Production divided by TPES.

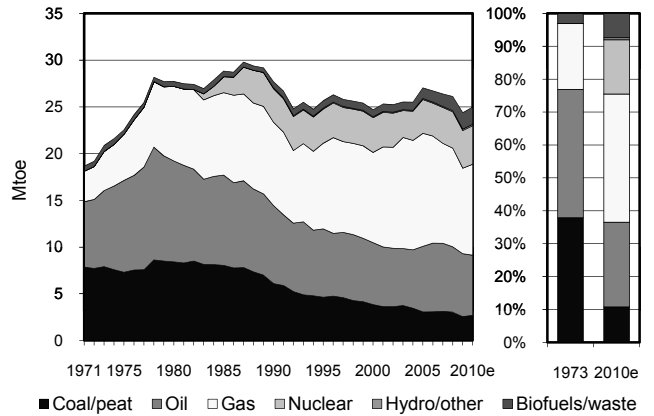
\*\*\* Includes non-energy use.

## Hungary

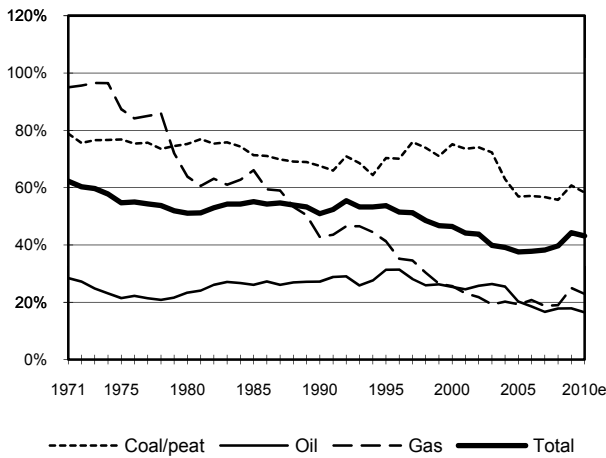
**Figure 1. Energy production**



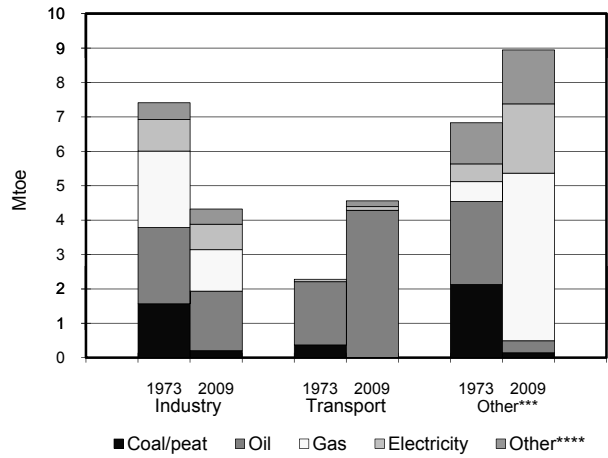
**Figure 2. Total primary energy supply\***



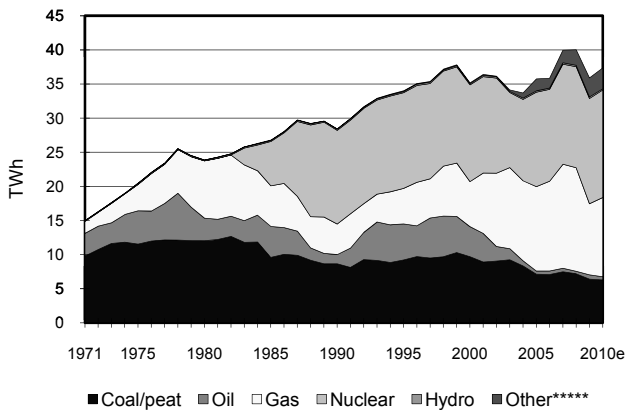
**Figure 3. Energy self-sufficiency**



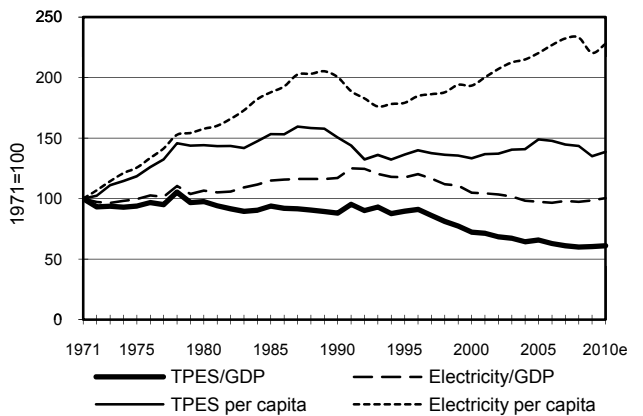
**Figure 4. Breakdown of sectorial final consumption by source in 1973 and 2010e\*\***



**Figure 5. Electricity generation by fuel**



**Figure 6. Selected indicators**



\* Excluding electricity trade.

\*\* Includes non-energy use.

\*\*\* Includes residential, commercial and public services, agriculture/forestry, fishing and non-specified.

\*\*\*\* Includes biofuels and waste, direct use of geothermal/solar thermal and heat produced in CHP/heat plants.

\*\*\*\*\* Includes geothermal, solar, wind, biofuels and waste, etc.

## Iceland : 2008

Million tonnes of oil equivalent											
<b>SUPPLY AND CONSUMPTION</b>	Coal & peat	Crude oil*	Oil products	Natural gas	Nuclear	Hydro	Geotherm. solar etc.	Biofuels & waste	Electricity	Heat	Total
Production	-	-	-	-	-	1.07	3.28 e	0.00	-	-	4.36
Imports	0.09 e	-	0.98	-	-	-	-	-	-	-	1.07
Exports	-	-	-	-	-	-	-	-	-	-	-
Intl. marine bunkers	-	-	-0.06	-	-	-	-	-	-	-	-0.06
Intl. aviation bunkers	-	-	-0.12	-	-	-	-	-	-	-	-0.12
Stock changes	-	-	0.00	-	-	-	-	-	-	-	0.00
<b>TPES</b>	<b>0.09</b>	-	<b>0.81</b>	-	-	<b>1.07</b>	<b>3.28</b>	<b>0.00</b>	-	-	<b>5.25</b>
Transfers	-	-	-	-	-	-	-	-	-	-	-
Statistical differences	-	-	-0.00	-	-	-	-0.00	-	-0.00	-	-0.00
Electricity plants	-	-	-0.00	-	-	-1.07	-1.71	-0.00	1.28	-	-1.50
CHP plants	-	-	-	-	-	-	-1.03	-	0.13	0.23	-0.67
Heat plants	-	-	-0.00	-	-	-	-0.03 e	-0.00	-0.02	0.03	-0.02
Blast furnaces	-	-	-	-	-	-	-	-	-	-	-
Gas works	-	-	-	-	-	-	-	-	-	-	-
Coke/pat. fuel/BKB plants	-	-	-	-	-	-	-	-	-	-	-
Oil refineries	-	-	-	-	-	-	-	-	-	-	-
Petrochemical plants	-	-	-	-	-	-	-	-	-	-	-
Liquefaction plants	-	-	-	-	-	-	-	-	-	-	-
Other transformation	-	-	-	-	-	-	-	-	-	-	-
Energy industry own use	-	-	-	-	-	-	-	-	-0.04	-	-0.04
Losses	-	-	-	-	-	-	-0.14	-	-0.05	-0.02	-0.21
<b>TFC</b>	<b>0.09</b>	-	<b>0.80</b>	-	-	-	<b>0.37</b>	<b>0.00</b>	<b>1.31</b>	<b>0.24</b>	<b>2.81</b>
<b>INDUSTRY</b>	<b>0.09</b>	-	<b>0.11</b>	-	-	-	<b>0.01</b>	-	<b>1.12</b>	<b>0.01</b>	<b>1.34</b>
Iron and steel	0.05 e	-	-	-	-	-	-	-	0.08	-	0.13
Chemical and petrochem.	-	-	-	-	-	-	-	-	0.00	-	0.00
Non-ferrous metals	-	-	0.00	-	-	-	-	-	0.99	-	0.99
Non-metallic minerals	0.03 e	-	-	-	-	-	-	-	0.00	-	0.04
Transport equipment	-	-	-	-	-	-	-	-	0.00	-	0.00
Machinery	-	-	-	-	-	-	-	-	0.00	-	0.00
Mining and quarrying	-	-	-	-	-	-	-	-	0.00	-	0.00
Food and tobacco	-	-	0.02	-	-	-	-	-	0.03	-	0.05
Paper, pulp and printing	-	-	-	-	-	-	-	-	0.00	-	0.00
Wood and wood products	-	-	-	-	-	-	-	-	0.00	-	0.00
Construction	-	-	0.08	-	-	-	-	-	0.01	-	0.09
Textile and leather	-	-	-	-	-	-	-	-	0.00	-	0.00
Non-specified	-	-	0.01	-	-	-	0.01	-	0.00	0.01	0.03
<b>TRANSPORT</b>	-	-	<b>0.31</b>	-	-	-	-	<b>0.00</b>	-	-	<b>0.31</b>
Domestic aviation	-	-	0.01	-	-	-	-	-	-	-	0.01
Road	-	-	0.28	-	-	-	-	0.00	-	-	0.28
Rail	-	-	-	-	-	-	-	-	-	-	-
Pipeline transport	-	-	-	-	-	-	-	-	-	-	-
Domestic navigation	-	-	0.02	-	-	-	-	-	-	-	0.02
Non-specified	-	-	-	-	-	-	-	-	-	-	-
<b>OTHER</b>	-	-	<b>0.19</b>	-	-	-	<b>0.36</b>	-	<b>0.19</b>	<b>0.23</b>	<b>0.97</b>
Residential	-	-	0.00	-	-	-	0.26	-	0.07	0.16	0.50
Comm. and public services	-	-	-	-	-	-	0.07	-	0.09	0.04	0.20
Agriculture/forestry	-	-	0.01	-	-	-	0.01	-	0.02	0.01	0.04
Fishing	-	-	0.18	-	-	-	0.03	-	0.00	0.02	0.22
Non-specified	-	-	-	-	-	-	-	-	-	-	-
<b>NON-ENERGY USE</b>	-	-	<b>0.20</b>	-	-	-	-	-	-	-	<b>0.20</b>
in industry/transf./energy	-	-	0.19	-	-	-	-	-	-	-	0.19
<i>of which: feedstocks</i>	-	-	-	-	-	-	-	-	-	-	-
in transport	-	-	-	-	-	-	-	-	-	-	-
in other	-	-	0.01	-	-	-	-	-	-	-	0.01
<b>Electricity and Heat Output</b>											
<b>Elec. generated - TWh</b>	-	-	<b>0.00</b>	-	-	<b>12.43</b>	<b>4.04</b>	<b>0.00</b>	-	-	<b>16.47</b>
Electricity plants	-	-	0.00	-	-	12.43	2.48	0.00	-	-	14.91
CHP plants	-	-	-	-	-	-	1.56	-	-	-	1.56
<b>Heat generated - PJ</b>	-	-	<b>0.04</b>	-	-	-	<b>10.20</b>	<b>0.03</b>	<b>0.64</b>	-	<b>10.90</b>
CHP plants	-	-	-	-	-	-	9.50	-	-	-	9.50
Heat plants	-	-	0.04	-	-	-	0.70	0.03	0.64	-	1.40

\* Includes crude oil, NGL, refinery feedstocks, additives and other hydrocarbons.

## Iceland : 2009

Million tonnes of oil equivalent											
<b>SUPPLY AND CONSUMPTION</b>	Coal & peat	Crude oil*	Oil products	Natural gas	Nuclear	Hydro	Geotherm. solar etc.	Biofuels & waste	Electricity	Heat	Total
Production	-	-	-	-	-	1.06	3.34	0.00	-	-	4.40
Imports	0.08 e	-	0.93	-	-	-	-	-	-	-	1.01
Exports	-	-	-0.05	-	-	-	-	-	-	-	-0.05
Intl. marine bunkers	-	-	-0.06	-	-	-	-	-	-	-	-0.06
Intl. aviation bunkers	-	-	-0.07	-	-	-	-	-	-	-	-0.07
Stock changes	-	-	0.00	-	-	-	-	-	-	-	0.00
<b>TPES</b>	<b>0.08</b>	-	<b>0.74</b>	-	-	<b>1.06</b>	<b>3.34</b>	<b>0.00</b>	-	-	<b>5.22</b>
Transfers	-	-	-	-	-	-	-	-	-	-	-
Statistical differences	-	-	-0.00	-	-	-	-	-	-	-	-0.00
Electricity plants	-	-	-0.00	-	-	-1.06	-1.73	-0.00	1.32	-	-1.47
CHP plants	-	-	-	-	-	-	-1.03	-	0.13	0.23	-0.67
Heat plants	-	-	-0.00	-	-	-	-0.03	-0.00	-0.02	0.03	-0.02
Blast furnaces	-	-	-	-	-	-	-	-	-	-	-
Gas works	-	-	-	-	-	-	-	-	-	-	-
Coke/pat. fuel/BKB plants	-	-	-	-	-	-	-	-	-	-	-
Oil refineries	-	-	-	-	-	-	-	-	-	-	-
Petrochemical plants	-	-	-	-	-	-	-	-	-	-	-
Liquefaction plants	-	-	-	-	-	-	-	-	-	-	-
Other transformation	-	-	-	-	-	-	-	-	-	-	-
Energy industry own use	-	-	-	-	-	-	-	-	-0.04	-	-0.04
Losses	-	-	-	-	-	-	-0.14	-	-0.04	-0.02	-0.21
<b>TFC</b>	<b>0.08</b>	-	<b>0.74</b>	-	-	-	<b>0.41</b>	<b>0.00</b>	<b>1.35</b>	<b>0.24</b>	<b>2.81</b>
<b>INDUSTRY</b>	<b>0.08</b>	-	<b>0.10</b>	-	-	-	<b>0.01</b>	-	<b>1.16</b>	<b>0.01</b>	<b>1.36</b>
Iron and steel	0.05 e	-	-	-	-	-	-	-	0.08	-	0.13
Chemical and petrochem.	-	-	-	-	-	-	-	-	0.00	-	0.00
Non-ferrous metals	-	-	0.00	-	-	-	-	-	1.03	-	1.04
Non-metallic minerals	0.03 e	-	-	-	-	-	-	-	0.00	-	0.03
Transport equipment	-	-	-	-	-	-	-	-	0.00	-	0.00
Machinery	-	-	-	-	-	-	-	-	0.00	-	0.00
Mining and quarrying	-	-	-	-	-	-	-	-	0.00	-	0.00
Food and tobacco	-	-	0.02	-	-	-	-	-	0.04	-	0.05
Paper, pulp and printing	-	-	-	-	-	-	-	-	0.00	-	0.00
Wood and wood products	-	-	-	-	-	-	-	-	0.00	-	0.00
Construction	-	-	0.06	-	-	-	-	-	0.00	-	0.07
Textile and leather	-	-	-	-	-	-	-	-	0.00	-	0.00
Non-specified	-	-	0.01	-	-	-	0.01	-	0.00	0.01	0.04
<b>TRANSPORT</b>	-	-	<b>0.29</b>	-	-	-	-	<b>0.00</b>	-	-	<b>0.29</b>
Domestic aviation	-	-	0.01	-	-	-	-	-	-	-	0.01
Road	-	-	0.26	-	-	-	-	0.00	-	-	0.26
Rail	-	-	-	-	-	-	-	-	-	-	-
Pipeline transport	-	-	-	-	-	-	-	-	-	-	-
Domestic navigation	-	-	0.02	-	-	-	-	-	-	-	0.02
Non-specified	-	-	-	-	-	-	-	-	-	-	-
<b>OTHER</b>	-	-	<b>0.16</b>	-	-	-	<b>0.40</b>	-	<b>0.19</b>	<b>0.23</b>	<b>0.98</b>
Residential	-	-	0.00	-	-	-	0.29	-	0.08	0.16	0.53
Comm. and public services	-	-	-	-	-	-	0.08	-	0.09	0.04	0.21
Agriculture/forestry	-	-	0.01	-	-	-	0.01	-	0.02	0.01	0.04
Fishing	-	-	0.16	-	-	-	0.03	-	0.00	0.02	0.20
Non-specified	-	-	-	-	-	-	-	-	-	-	-
<b>NON-ENERGY USE</b>	-	-	<b>0.19</b>	-	-	-	-	-	-	-	<b>0.19</b>
in industry/transf./energy	-	-	0.18	-	-	-	-	-	-	-	0.18
<i>of which: feedstocks</i>	-	-	-	-	-	-	-	-	-	-	-
in transport	-	-	-	-	-	-	-	-	-	-	-
in other	-	-	0.01	-	-	-	-	-	-	-	0.01
<b>Electricity and Heat Output</b>											
<b>Elec. generated - TWh</b>	-	-	<b>0.00</b>	-	-	<b>12.28</b>	<b>4.55</b>	-	-	-	<b>16.83</b>
Electricity plants	-	-	0.00	-	-	12.28	3.01	-	-	-	15.29
CHP plants	-	-	-	-	-	-	1.54	-	-	-	1.54
<b>Heat generated - PJ</b>	-	-	<b>0.02</b>	-	-	-	<b>10.20</b>	<b>0.03</b>	<b>0.65</b>	-	<b>10.89</b>
CHP plants	-	-	-	-	-	-	9.50	-	-	-	9.50
Heat plants	-	-	0.02	-	-	-	0.70	0.03	0.65	-	1.39

\* Includes crude oil, NGL, refinery feedstocks, additives and other hydrocarbons.



## Iceland

## Estimated energy supply balance for 2010

Million tonnes of oil equivalent											
SUPPLY	Coal & peat	Crude oil*	Oil products	Natural gas	Nuclear	Hydro	Geotherm. solar etc.	Biofuels & waste	Electricity	Heat	Total
Production	-	-	-	-	-	1.08	3.48	0.00	-	-	4.57
Imports	0.08	-	0.89	-	-	-	-	-	-	-	0.97
Exports	-	-	-0.04	-	-	-	-	-	-	-	-0.04
Intl. marine bunkers	-	-	-0.05	-	-	-	-	-	-	-	-0.05
Intl. aviation bunkers	-	-	-0.09	-	-	-	-	-	-	-	-0.09
Stock changes	-	-	-	-	-	-	-	-	-	-	-
<b>TPES</b>	<b>0.08</b>	<b>-</b>	<b>0.71</b>	<b>-</b>	<b>-</b>	<b>1.08</b>	<b>3.48</b>	<b>0.00</b>	<b>-</b>	<b>-</b>	<b>5.36</b>
Electricity and Heat Output											
Elec. generated - TWh	-	-	0.00	-	-	12.59	4.47	-	-	-	17.06
Heat generated - PJ	-	-	0.01	-	-	-	10.06	0.03	0.64	-	10.73

\* Includes crude oil, NGL, refinery feedstocks, additives and other hydrocarbons.

## Key indicators

	1960	1971	1980	1990	2000	2008	2009	2010e
Energy production (Mtoe)	0.2	0.4	0.9	1.4	2.3	4.4	4.4	4.6
Net imports (Mtoe)	0.4	0.6	0.6	0.8	1.0	1.1	1.0	0.9
Total primary energy supply (Mtoe)	0.5	0.9	1.5	2.1	3.1	5.3	5.2	5.4
Net oil imports (Mtoe)	0.4	0.6	0.6	0.7	0.9	1.0	0.9	0.9
Oil supply (Mtoe)	0.4	0.5	0.6	0.6	0.7	0.8	0.7	0.7
Electricity consumption (TWh)*	0.5	1.4	2.9	4.1	7.4	15.9	16.3	16.6
GDP (billion 2000 USD)	1.8 e	3.2	5.2	6.8	8.7	12.1	11.2	10.8
GDP PPP (billion 2000 USD)	1.7 e	2.9	4.8	6.3	8.1	11.2	10.5	10.1
Population (millions)	0.18 e	0.21	0.23	0.26	0.28	0.32	0.32	0.32
Industrial production index (2005=100)	..	..	..	..	..	..	..	..
Total self-sufficiency**	0.2787	0.4687	0.6040	0.6704	0.7438	0.8295	0.8426	0.8527
Coal and peat self-sufficiency**	..	..	-	-	-	-	-	-
Oil self-sufficiency**	..	..	-	-	-	-	-	-
Natural gas self-sufficiency**	..	..	-	-	-	-	-	-
TPES/GDP (toe per thousand 2000 USD)	0.3046 e	0.2859	0.2900	0.3088	0.3564	0.4356	0.4656	0.4945
TPES/GDP PPP (toe per thousand 2000 USD)	0.3266 e	0.3067	0.3111	0.3312	0.3823	0.4672	0.4994	0.5304
TPES/population (toe per capita)	3.0753 e	4.3804	6.5650	8.1901	11.0312	16.4595	16.3789	16.7913
Net oil imports/GDP (toe per thousand 2000 USD)	0.2143 e	0.1742	0.1119	0.1073	0.1077	0.0816	0.0781	0.0789
Oil supply/GDP (toe per thousand 2000 USD)	0.2091 e	0.1517	0.1114	0.0923	0.0801	0.0671	0.0662	0.0658
Oil supply/population (toe per capita)	2.1107 e	2.3242	2.5228	2.4477	2.4792	2.5362	2.3285	2.2330
Elect. cons./GDP (kWh per 2000 USD)	0.2583 e	0.4572	0.5606	0.6085	0.8472	1.3184	1.4548	1.5278
Elect. cons./population (kWh per capita)	2608 e	7005	12689	16137	26221	49818	51179	51884
Industry cons.***/industrial production (2005=100)	..	..	..	..	..	..	..	..
Industry oil cons.***/industrial production (2005=100)	..	..	..	..	..	..	..	..

\* Electricity consumption equals domestic supply less losses.

\*\* Production divided by TPES.

\*\*\* Includes non-energy use.

Iceland

Figure 1. Energy production

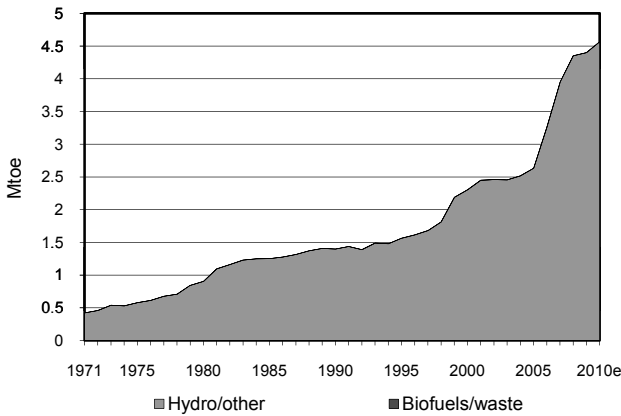


Figure 2. Total primary energy supply\*

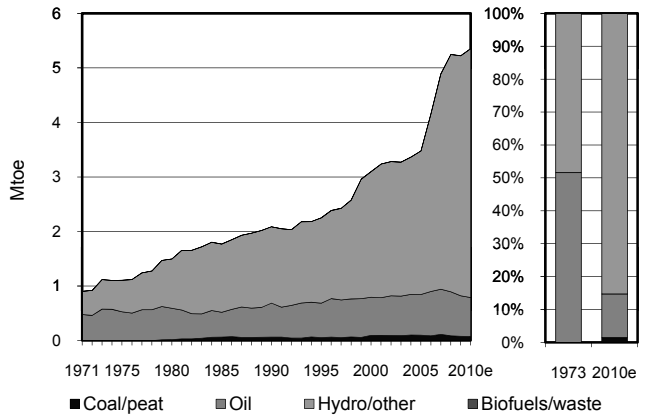


Figure 3. Energy self-sufficiency

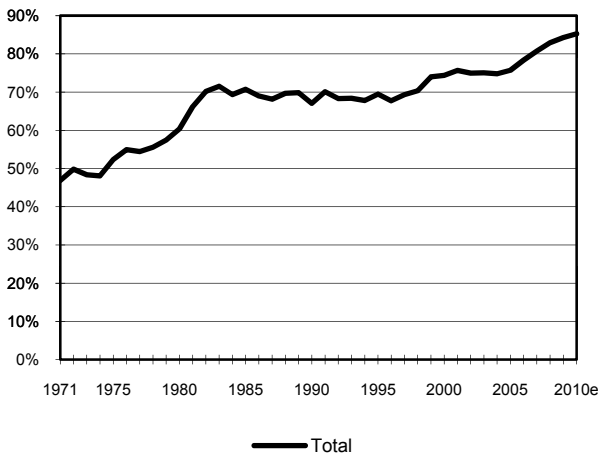


Figure 4. Breakdown of sectorial final consumption by source in 1973 and 2009\*\*

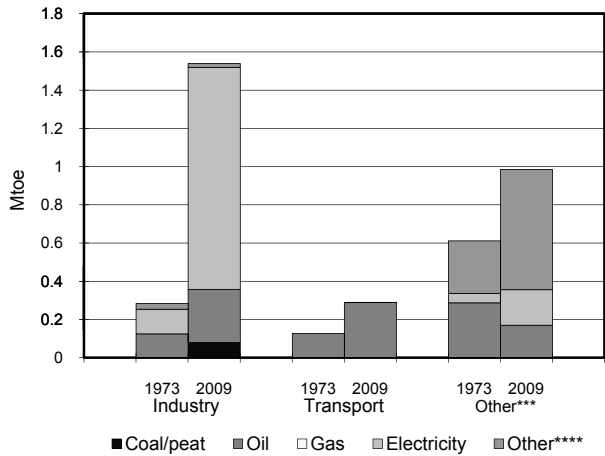


Figure 5. Electricity generation by fuel

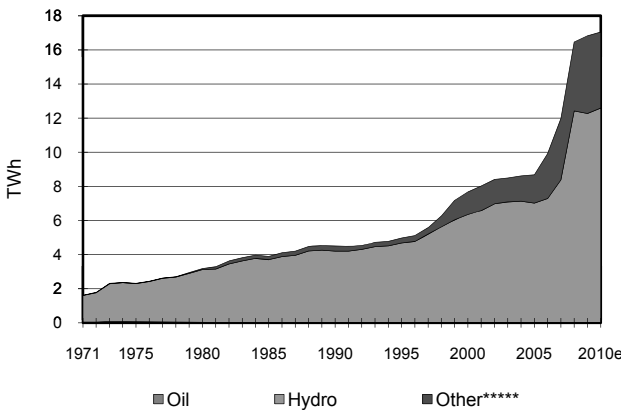
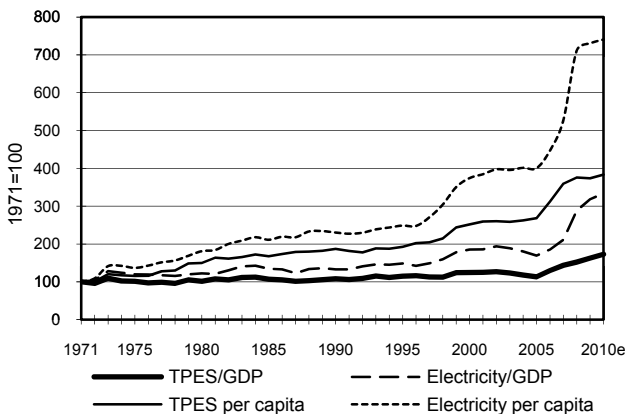


Figure 6. Selected indicators



\* Excluding electricity trade.

\*\* Includes non-energy use.

\*\*\* Includes residential, commercial and public services, agriculture/forestry, fishing and non-specified.

\*\*\*\* Includes biofuels and waste, direct use of geothermal/solar thermal and heat produced in CHP/heat plants.

\*\*\*\*\* Includes geothermal, solar, wind, biofuels and waste, etc.

## Ireland : 2008

Million tonnes of oil equivalent											
<b>SUPPLY AND CONSUMPTION</b>	Coal & peat	Crude oil*	Oil products	Natural gas	Nuclear	Hydro	Geotherm. solar etc.	Biofuels & waste	Electricity	Heat	Total
Production	0.65	-	-	0.35	-	0.08	0.21	0.22	-	-	1.52
Imports	1.72	3.36	6.35	4.13	-	-	-	0.04	0.06	-	15.66
Exports	-0.03	-	-1.21	-	-	-	-	-0.00	-0.03	-	-1.26
Intl. marine bunkers	-	-	-0.08	-	-	-	-	-	-	-	-0.08
Intl. aviation bunkers	-	-	-0.91	-	-	-	-	-	-	-	-0.91
Stock changes	0.07	-0.11	0.02	0.00	-	-	-	0.00	-	-	-0.02
<b>TPES</b>	<b>2.41</b>	<b>3.25</b>	<b>4.16</b>	<b>4.48</b>	-	<b>0.08</b>	<b>0.21</b>	<b>0.27</b>	<b>0.04</b>	-	<b>14.90</b>
Transfers	-	-	-0.00	-	-	-	-	-	-	-	-0.00
Statistical differences	-0.11	0.11	0.84	0.04	-	-	-	-0.00	0.02	-	0.90
Electricity plants	-1.61	-	-0.34	-2.57	-	-0.08	-0.21	-0.03	2.41	-	-2.44
CHP plants	-0.01	-	-0.01	-0.23	-	-	-	-0.01	0.16	-	-0.10
Heat plants	-	-	-	-	-	-	-	-	-	-	-
Blast furnaces	-	-	-	-	-	-	-	-	-	-	-
Gas works	-	-	-	-	-	-	-	-	-	-	-
Coke/pat. fuel/BKB plants	-0.03	-	-0.01	-	-	-	-	-	-	-	-0.04
Oil refineries	-	-3.36	3.24	-	-	-	-	-	-	-	-0.12
Petrochemical plants	-	-	-	-	-	-	-	-	-	-	-
Liquefaction plants	-	-	-	-	-	-	-	-	-	-	-
Other transformation	-	-	-	-	-	-	-	-	-	-	-
Energy industry own use	-0.02	-	-0.13	-	-	-	-	-	-0.14	-	-0.30
Losses	-	-	-	-0.06	-	-	-	-	-0.19	-	-0.25
<b>TFC</b>	<b>0.62</b>	-	<b>7.75</b>	<b>1.66</b>	-	-	<b>0.00</b>	<b>0.23</b>	<b>2.29</b>	-	<b>12.55</b>
<b>INDUSTRY</b>	<b>0.16</b>	-	<b>0.94</b>	<b>0.59</b>	-	-	-	<b>0.14</b>	<b>0.69</b>	-	<b>2.52</b>
Iron and steel	-	-	0.00	-	-	-	-	-	-	-	0.00
Chemical and petrochem.	-	-	0.10	0.08	-	-	-	-	0.11	-	0.29
Non-ferrous metals	-	-	0.19	0.16	-	-	-	-	0.04	-	0.39
Non-metallic minerals	0.14	-	0.28	0.04	-	-	-	0.01	0.08	-	0.55
Transport equipment	-	-	0.01	0.00	-	-	-	-	0.01	-	0.02
Machinery	-	-	0.03	0.15	-	-	-	-	0.12	-	0.30
Mining and quarrying	-	-	0.09	0.01	-	-	-	-	0.05	-	0.16
Food and tobacco	0.02	-	0.15	0.14	-	-	-	0.04	0.13	-	0.48
Paper, pulp and printing	-	-	0.01	0.00	-	-	-	-	0.02	-	0.03
Wood and wood products	-	-	0.01	0.00	-	-	-	0.09	0.03	-	0.13
Construction	-	-	-	-	-	-	-	-	0.01	-	0.01
Textile and leather	-	-	0.00	0.00	-	-	-	-	0.01	-	0.01
Non-specified	0.01	-	0.05	0.01	-	-	-	-	0.08	-	0.15
<b>TRANSPORT</b>	-	-	<b>4.47</b>	-	-	-	-	<b>0.05</b>	<b>0.00</b>	-	<b>4.53</b>
Domestic aviation	-	-	0.04	-	-	-	-	-	-	-	0.04
Road	-	-	4.36	-	-	-	-	0.05	-	-	4.41
Rail	-	-	0.04	-	-	-	-	-	-	-	0.04
Pipeline transport	-	-	-	-	-	-	-	-	-	-	-
Domestic navigation	-	-	0.02	-	-	-	-	-	-	-	0.02
Non-specified	-	-	0.00	-	-	-	-	-	0.00	-	0.01
<b>OTHER</b>	<b>0.45</b>	-	<b>2.05</b>	<b>1.06</b>	-	-	<b>0.00</b>	<b>0.04</b>	<b>1.60</b>	-	<b>5.21</b>
Residential	0.43	-	1.24	0.67	-	-	0.00	0.02	0.73	-	3.09
Comm. and public services	0.03	-	0.56	0.39	-	-	0.00	0.01	0.82	-	1.81
Agriculture/forestry	-	-	0.26	-	-	-	-	0.00	0.05	-	0.30
Fishing	-	-	-	-	-	-	-	-	-	-	-
Non-specified	-	-	-	-	-	-	-	-	-	-	-
<b>NON-ENERGY USE</b>	-	-	<b>0.30</b>	-	-	-	-	-	-	-	<b>0.30</b>
in industry/transf./energy	-	-	0.27	-	-	-	-	-	-	-	0.27
<i>of which: feedstocks</i>	-	-	-	-	-	-	-	-	-	-	-
in transport	-	-	0.03	-	-	-	-	-	-	-	0.03
in other	-	-	0.00	-	-	-	-	-	-	-	0.00
<b>Electricity and Heat Output</b>											
<b>Elec. generated - TWh</b>	<b>7.89</b>	-	<b>1.70</b>	<b>16.72</b>	-	<b>0.97</b>	<b>2.41</b>	<b>0.16</b>	-	-	<b>29.86</b>
Electricity plants	7.87	-	1.67	14.94	-	0.97	2.41	0.13	-	-	27.98
CHP plants	0.03	-	0.03	1.79	-	-	-	0.03	-	-	1.88
<b>Heat generated - PJ</b>	-	-	-	-	-	-	-	-	-	-	-
CHP plants	-	-	-	-	-	-	-	-	-	-	-
Heat plants	-	-	-	-	-	-	-	-	-	-	-

\* Includes crude oil, NGL, refinery feedstocks, additives and other hydrocarbons.

## Ireland : 2009

Million tonnes of oil equivalent											
<b>SUPPLY AND CONSUMPTION</b>	Coal & peat	Crude oil*	Oil products	Natural gas	Nuclear	Hydro	Geotherm. solar etc.	Biofuels & waste	Electricity	Heat	Total
Production	0.58	-	-	0.32	-	0.08	0.26	0.29	-	-	1.53
Imports	1.39	2.75	5.96	3.96	-	-	-	0.03	0.08	-	14.17
Exports	-0.02	-	-0.94	-	-	-	-	-0.00	-0.02	-	-0.97
Intl. marine bunkers	-	-	-0.11	-	-	-	-	-	-	-	-0.11
Intl. aviation bunkers	-	-	-0.55	-	-	-	-	-	-	-	-0.55
Stock changes	0.21	0.12	-0.05	0.00	-	-	-	-0.00	-	-	0.28
<b>TPES</b>	<b>2.16</b>	<b>2.87</b>	<b>4.31</b>	<b>4.28</b>	<b>-</b>	<b>0.08</b>	<b>0.26</b>	<b>0.32</b>	<b>0.07</b>	<b>-</b>	<b>14.34</b>
Transfers	-	-	-	-	-	-	-	-	-	-	-
Statistical differences	-0.12	0.02	0.05	0.11	-	-	-	-0.00	-0.01	-	0.05
Electricity plants	-1.42	-	-0.21	-2.51	-	-0.08	-0.25	-0.03	2.24	-	-2.26
CHP plants	-0.02	-	-0.01	-0.24	-	-	-	-0.01	0.16	-	-0.12
Heat plants	-	-	-	-	-	-	-	-	-	-	-
Blast furnaces	-	-	-	-	-	-	-	-	-	-	-
Gas works	-	-	-	-	-	-	-	-	-	-	-
Coke/pat. fuel/BKB plants	-0.03	-	-0.02	-	-	-	-	-	-	-	-0.05
Oil refineries	-	-2.89	2.76	-	-	-	-	-	-	-	-0.13
Petrochemical plants	-	-	-	-	-	-	-	-	-	-	-
Liquefaction plants	-	-	-	-	-	-	-	-	-	-	-
Other transformation	-	-	-	-	-	-	-	-	-	-	-
Energy industry own use	-0.03	-	-0.11	-	-	-	-	-	-0.13	-	-0.27
Losses	-	-	-	-0.06	-	-	-	-	-0.18	-	-0.25
<b>TFC</b>	<b>0.55</b>	<b>-</b>	<b>6.77</b>	<b>1.57</b>	<b>-</b>	<b>-</b>	<b>0.00</b>	<b>0.27</b>	<b>2.15</b>	<b>-</b>	<b>11.32</b>
<b>INDUSTRY</b>	<b>0.11</b>	<b>-</b>	<b>0.65</b>	<b>0.53</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.15</b>	<b>0.72</b>	<b>-</b>	<b>2.16</b>
Iron and steel	-	-	0.00	-	-	-	-	-	-	-	0.00
Chemical and petrochem.	-	-	0.11	0.07	-	-	-	0.00	0.12	-	0.29
Non-ferrous metals	-	-	0.13	0.14	-	-	-	-	0.04	-	0.31
Non-metallic minerals	0.09	-	0.15	0.04	-	-	-	0.03	0.08	-	0.39
Transport equipment	-	-	0.00	0.00	-	-	-	-	0.01	-	0.01
Machinery	-	-	0.03	0.13	-	-	-	-	0.13	-	0.28
Mining and quarrying	-	-	0.05	0.01	-	-	-	-	0.06	-	0.12
Food and tobacco	0.02	-	0.13	0.12	-	-	-	0.04	0.14	-	0.45
Paper, pulp and printing	-	-	0.01	0.00	-	-	-	-	0.02	-	0.02
Wood and wood products	-	-	0.01	0.00	-	-	-	0.08	0.03	-	0.13
Construction	-	-	-	-	-	-	-	-	0.01	-	0.01
Textile and leather	-	-	0.01	0.00	-	-	-	-	0.01	-	0.02
Non-specified	0.01	-	0.03	0.01	-	-	-	-	0.09	-	0.13
<b>TRANSPORT</b>	<b>-</b>	<b>-</b>	<b>4.03</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.07</b>	<b>0.00</b>	<b>-</b>	<b>4.11</b>
Domestic aviation	-	-	0.03	-	-	-	-	-	-	-	0.03
Road	-	-	3.94	-	-	-	-	0.07	-	-	4.01
Rail	-	-	0.04	-	-	-	-	-	-	-	0.04
Pipeline transport	-	-	-	-	-	-	-	-	-	-	-
Domestic navigation	-	-	0.02	-	-	-	-	-	-	-	0.02
Non-specified	-	-	-	-	-	-	-	-	0.00	-	0.00
<b>OTHER</b>	<b>0.44</b>	<b>-</b>	<b>1.92</b>	<b>1.04</b>	<b>-</b>	<b>-</b>	<b>0.00</b>	<b>0.05</b>	<b>1.43</b>	<b>-</b>	<b>4.89</b>
Residential	0.44	-	1.22	0.62	-	-	0.00	0.03	0.69	-	3.01
Comm. and public services	-	-	0.48	0.42	-	-	0.00	0.02	0.68	-	1.60
Agriculture/forestry	-	-	0.22	-	-	-	-	0.00	0.06	-	0.28
Fishing	-	-	-	-	-	-	-	-	-	-	-
Non-specified	-	-	-	-	-	-	-	-	-	-	-
<b>NON-ENERGY USE</b>	<b>-</b>	<b>-</b>	<b>0.16</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.16</b>
in industry/transf./energy	-	-	0.13	-	-	-	-	-	-	-	0.13
of which: feedstocks	-	-	-	-	-	-	-	-	-	-	-
in transport	-	-	0.03	-	-	-	-	-	-	-	0.03
in other	-	-	0.00	-	-	-	-	-	-	-	0.00
<b>Electricity and Heat Output</b>											
<b>Elec. generated - TWh</b>	<b>6.63</b>	<b>-</b>	<b>0.92</b>	<b>16.30</b>	<b>-</b>	<b>0.90</b>	<b>2.96</b>	<b>0.18</b>	<b>-</b>	<b>-</b>	<b>27.89</b>
Electricity plants	6.60	-	0.89	14.57	-	0.90	2.96	0.15	-	-	26.06
CHP plants	0.04	-	0.03	1.73	-	-	-	0.03	-	-	1.83
<b>Heat generated - PJ</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
CHP plants	-	-	-	-	-	-	-	-	-	-	-
Heat plants	-	-	-	-	-	-	-	-	-	-	-

\* Includes crude oil, NGL, refinery feedstocks, additives and other hydrocarbons.

## Ireland

## Estimated energy supply balance for 2010

Million tonnes of oil equivalent											
SUPPLY	Coal & peat	Crude oil*	Oil products	Natural gas	Nuclear	Hydro	Geotherm. solar etc.	Biofuels & waste	Electricity	Heat	Total
Production	1.05	-	-	0.32	-	0.05	0.25	0.28	-	-	1.95
Imports	1.06	3.13	6.13	4.51	-	-	-	0.03	0.07	-	14.92
Exports	-0.02	-0.02	-1.32	-	-	-	-	-0.00	-0.02	-	-1.39
Intl. marine bunkers	-	-	-0.12	-	-	-	-	-	-	-	-0.12
Intl. aviation bunkers	-	-	-0.60	-	-	-	-	-	-	-	-0.60
Stock changes	0.01	-0.06	0.23	0.00	-	-	-	-	-	-	0.18
<b>TPES</b>	<b>2.10</b>	<b>3.05</b>	<b>4.32</b>	<b>4.82</b>	-	<b>0.05</b>	<b>0.25</b>	<b>0.31</b>	<b>0.04</b>	-	<b>14.94</b>
Electricity and Heat Output											
Elec. generated - TWh	6.77	-	0.60	17.31	-	0.56	2.81	0.22	-	-	28.26
Heat generated - PJ	-	-	-	-	-	-	-	-	-	-	-

\* Includes crude oil, NGL, refinery feedstocks, additives and other hydrocarbons.

## Key indicators

	1960	1971	1980	1990	2000	2008	2009	2010e
Energy production (Mtoe)	1.4	1.4	1.9	3.5	2.2	1.5	1.5	2.0
Net imports (Mtoe)	2.6	5.8	6.6	7.1	12.2	14.4	13.2	13.5
Total primary energy supply (Mtoe)	3.7	6.7	8.2	10.0	13.7	14.9	14.3	14.9
Net oil imports (Mtoe)	1.4	5.1	5.8	5.1	8.0	8.5	7.8	7.9
Oil supply (Mtoe)	1.2	4.6	5.5	4.5	7.4	7.4	7.2	7.4
Electricity consumption (TWh)*	2.0	5.6	9.8	13.2	22.1	28.4	26.9	26.8
GDP (billion 2000 USD)	14.2 e	22.1	34.0	48.5	96.8	135.4	125.1	123.8
GDP PPP (billion 2000 USD)	16.0 e	25.0	38.4	54.7	109.2	152.7	141.2	139.7
Population (millions)	2.83 e	2.98	3.40	3.51	3.80	4.44	4.47	4.54
Industrial production index (2005=100)	..	..	12.80	23.60	74.90	106.10	101.40	..
Total self-sufficiency**	0.3705	0.2119	0.2299	0.3471	0.1576	0.1018	0.1066	0.1302
Coal and peat self-sufficiency**	0.5300	0.6696	0.5683	0.4108	0.3675	0.2680	0.2702	0.5013
Oil self-sufficiency**	..	..	-	-	-	-	-	-
Natural gas self-sufficiency**	..	..	1.0000	1.0000	0.2789	0.0790	0.0743	0.0656
TPES/GDP (toe per thousand 2000 USD)	0.2629 e	0.3034	0.2423	0.2059	0.1416	0.1101	0.1146	0.1206
TPES/GDP PPP (toe per thousand 2000 USD)	0.2330 e	0.2689	0.2148	0.1825	0.1255	0.0976	0.1016	0.1069
TPES/population (toe per capita)	1.3163 e	2.2559	2.4215	2.8487	3.6012	3.3540	3.2094	3.2874
Net oil imports/GDP (toe per thousand 2000 USD)	0.1007 e	0.2309	0.1715	0.1043	0.0829	0.0628	0.0622	0.0639
Oil supply/GDP (toe per thousand 2000 USD)	0.0841 e	0.2084	0.1624	0.0922	0.0764	0.0548	0.0574	0.0595
Oil supply/population (toe per capita)	0.4213 e	1.5495	1.6226	1.2762	1.9436	1.6686	1.6061	1.6208
Elect. cons./GDP (kWh per 2000 USD)	0.1385 e	0.2547	0.2880	0.2729	0.2279	0.2099	0.2150	0.2165
Elect. cons./population (kWh per capita)	694 e	1894	2878	3776	5798	6396	6022	5899
Industry cons.***/industrial production (2005=100)	..	..	631.95	340.13	139.80	91.17	78.22	..
Industry oil cons.***/industrial production (2005=100)	..	..	948.18	268.99	131.58	86.78	58.64	..

\* Electricity consumption equals domestic supply less losses.

\*\* Production divided by TPES.

\*\*\* Includes non-energy use.

## Ireland

Figure 1. Energy production

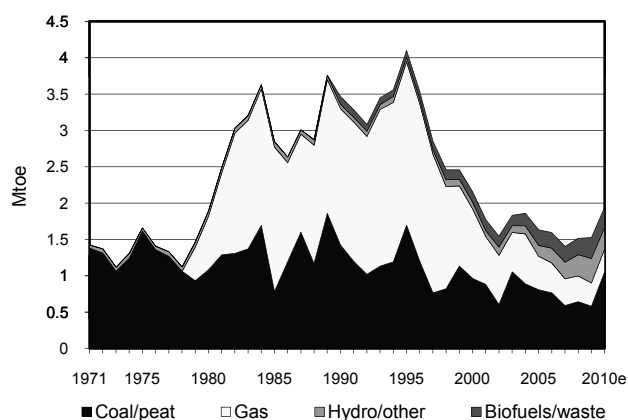


Figure 2. Total primary energy supply\*

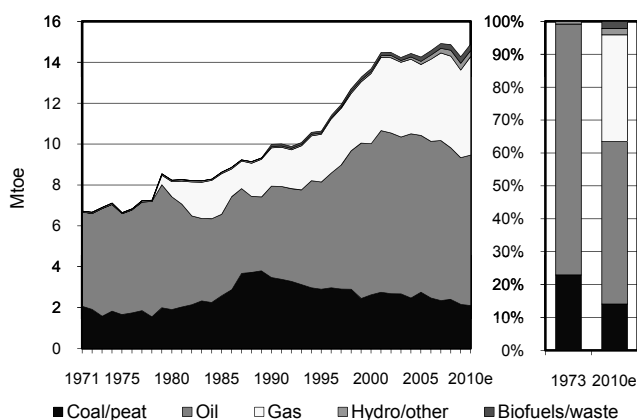


Figure 3. Energy self-sufficiency

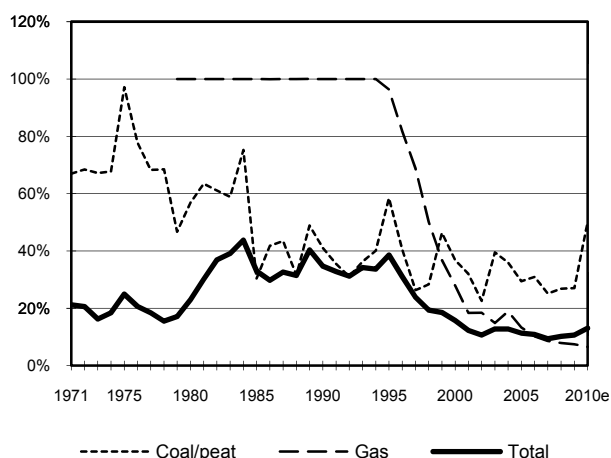


Figure 4. Breakdown of sectorial final consumption by source in 1973 and 2009\*\*

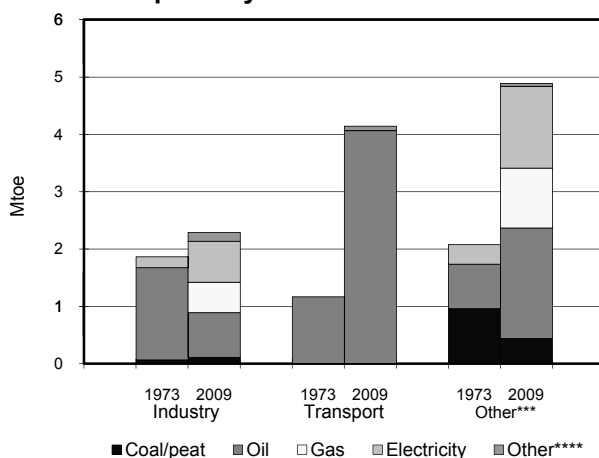


Figure 5. Electricity generation by fuel

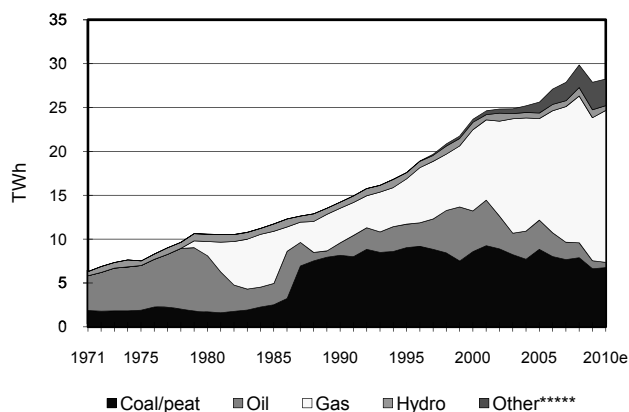
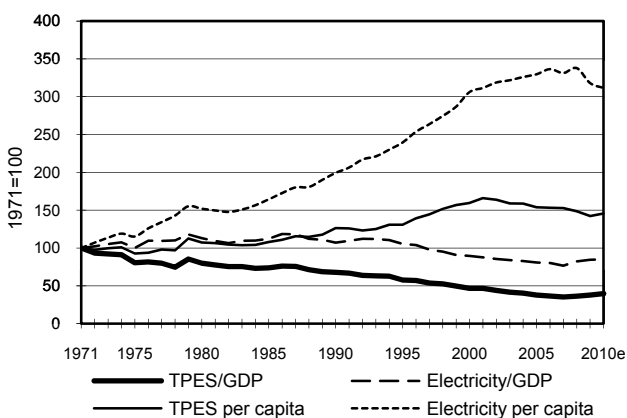


Figure 6. Selected indicators



\* Excluding electricity trade.

\*\* Includes non-energy use.

\*\*\* Includes residential, commercial and public services, agriculture/forestry, fishing and non-specified.

\*\*\*\* Includes biofuels and waste, direct use of geothermal/solar thermal and heat produced in CHP/heat plants.

\*\*\*\*\* Includes geothermal, solar, wind, biofuels and waste, etc.

## Israel : 2008

Million tonnes of oil equivalent											
<b>SUPPLY AND CONSUMPTION</b>	Coal & peat	Crude oil*	Oil products	Natural gas	Nuclear	Hydro	Geotherm. solar etc.	Biofuels & waste	Electricity	Heat	Total
Production	0.03	-	-	2.80	-	0.00	1.06	0.01	-	-	3.90
Imports	7.66	13.05	2.24	0.26	-	-	-	0.00	-	-	23.22
Exports	-	-	-3.37	-	-	-	-	-	-0.32	-	-3.69
Intl. marine bunkers	-	-	-0.38	-	-	-	-	-	-	-	-0.38
Intl. aviation bunkers	-	-	-0.84	-	-	-	-	-	-	-	-0.84
Stock changes	0.10	-	-	-	-	-	-	-	-	-	0.10
<b>TPES</b>	<b>7.79</b>	<b>13.05</b>	<b>-2.35</b>	<b>3.07</b>	<b>-</b>	<b>0.00</b>	<b>1.06</b>	<b>0.01</b>	<b>-0.32</b>	<b>-</b>	<b>22.31</b>
Transfers	-	-	-	-	-	-	-	-	-	-	-
Statistical differences	-0.16	-	-	-0.12	-	-	-	-	-0.03	-	-0.31
Electricity plants	-7.63	-	-1.34	-2.89	-	-0.00	-0.00	-	4.90	-	-6.97
CHP plants	-	-	-	-	-	-	-	-	-	-	-
Heat plants	-	-	-	-	-	-	-	-	-	-	-
Blast furnaces	-	-	-	-	-	-	-	-	-	-	-
Gas works	-	-	-	-	-	-	-	-	-	-	-
Coke/pat. fuel/BKB plants	-	-	-	-	-	-	-	-	-	-	-
Oil refineries	-	-13.05	13.22	-	-	-	-	-	-	-	0.18
Petrochemical plants	-	-	-	-	-	-	-	-	-	-	-
Liquefaction plants	-	-	-	-	-	-	-	-	-	-	-
Other transformation	-	-	-	-	-	-	-	-	-	-	-
Energy industry own use	-	-	-0.63	-0.05	-	-	-	-	-0.34	-	-1.02
Losses	-	-	-	-	-	-	-	-	-0.10	-	-0.10
<b>TFC</b>	<b>-</b>	<b>-</b>	<b>8.90</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1.06</b>	<b>0.01</b>	<b>4.11</b>	<b>-</b>	<b>14.08</b>
<b>INDUSTRY</b>	<b>-</b>	<b>-</b>	<b>0.06</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1.08</b>	<b>-</b>	<b>1.14</b>
Iron and steel	-	-	-	-	-	-	-	-	0.11	-	0.11
Chemical and petrochem.	-	-	-	-	-	-	-	-	0.19	-	0.19
Non-ferrous metals	-	-	-	-	-	-	-	-	-	-	-
Non-metallic minerals	-	-	-	-	-	-	-	-	0.06	-	0.06
Transport equipment	-	-	-	-	-	-	-	-	0.03	-	0.03
Machinery	-	-	-	-	-	-	-	-	0.09	-	0.09
Mining and quarrying	-	-	-	-	-	-	-	-	0.11	-	0.11
Food and tobacco	-	-	-	-	-	-	-	-	0.11	-	0.11
Paper, pulp and printing	-	-	-	-	-	-	-	-	0.04	-	0.04
Wood and wood products	-	-	-	-	-	-	-	-	0.01	-	0.01
Construction	-	-	-	-	-	-	-	-	0.08	-	0.08
Textile and leather	-	-	-	-	-	-	-	-	0.04	-	0.04
Non-specified	-	-	0.06	-	-	-	-	-	0.20	-	0.27
<b>TRANSPORT</b>	<b>-</b>	<b>-</b>	<b>5.63</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>5.63</b>
Domestic aviation	-	-	-	-	-	-	-	-	-	-	-
Road	-	-	5.63	-	-	-	-	-	-	-	5.63
Rail	-	-	-	-	-	-	-	-	-	-	-
Pipeline transport	-	-	-	-	-	-	-	-	-	-	-
Domestic navigation	-	-	-	-	-	-	-	-	-	-	-
Non-specified	-	-	-	-	-	-	-	-	-	-	-
<b>OTHER</b>	<b>-</b>	<b>-</b>	<b>2.06</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1.06</b>	<b>0.01</b>	<b>3.03</b>	<b>-</b>	<b>6.16</b>
Residential	-	-	0.97	-	-	-	1.06	0.00	1.31	-	3.34
Comm. and public services	-	-	-	-	-	-	-	-	1.33	-	1.33
Agriculture/forestry	-	-	-	-	-	-	-	-	0.16	-	0.16
Fishing	-	-	-	-	-	-	-	-	-	-	-
Non-specified	-	-	1.09	-	-	-	-	0.01	0.24	-	1.33
<b>NON-ENERGY USE</b>	<b>-</b>	<b>-</b>	<b>1.15</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1.15</b>
in industry/transf./energy	-	-	1.15	-	-	-	-	-	-	-	1.15
of which: feedstocks	-	-	0.94	-	-	-	-	-	-	-	0.94
in transport	-	-	-	-	-	-	-	-	-	-	-
in other	-	-	-	-	-	-	-	-	-	-	-
<b>Electricity and Heat Output</b>											
<b>Elec. generated - TWh</b>	<b>35.38</b>	<b>-</b>	<b>5.99</b>	<b>15.38</b>	<b>-</b>	<b>0.02</b>	<b>0.23</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>57.00</b>
Electricity plants	35.38	-	5.99	15.38	-	0.02	0.23	-	-	-	57.00
CHP plants	-	-	-	-	-	-	-	-	-	-	-
<b>Heat generated - PJ</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
CHP plants	-	-	-	-	-	-	-	-	-	-	-
Heat plants	-	-	-	-	-	-	-	-	-	-	-

0

\* Includes crude oil, NGL, refinery feedstocks, additives and other hydrocarbons.

## Israel : 2009

Million tonnes of oil equivalent											
<b>SUPPLY AND CONSUMPTION</b>	Coal & peat	Crude oil*	Oil products	Natural gas	Nuclear	Hydro	Geotherm. solar etc.	Biofuels & waste	Electricity	Heat	Total
Production	0.03	-	-	2.17	-	0.00	1.04	0.02 e	-	-	3.27
Imports	7.40	12.23	2.24	1.25	-	-	-	0.00	-	-	23.13
Exports	-	-	-3.37	-	-	-	-	-	-0.33	-	-3.70
Intl. marine bunkers	-	-	-0.35	-	-	-	-	-	-	-	-0.35
Intl. aviation bunkers	-	-	-0.81	-	-	-	-	-	-	-	-0.81
Stock changes	0.00	-	-	-	-	-	-	-	-	-	0.00
<b>TPES</b>	<b>7.43</b>	<b>12.23</b>	<b>-2.28</b>	<b>3.42</b>	<b>-</b>	<b>0.00</b>	<b>1.04</b>	<b>0.03</b>	<b>-0.33</b>	<b>-</b>	<b>21.55</b>
Transfers	-	-	-	-	-	-	-	-	-	-	-
Statistical differences	-0.01	-	-	0.19	-	-	-	-	0.04	-	0.22
Electricity plants	-7.43	-	-0.50	-3.34	-	-0.00	-0.00	-0.02 e	4.73	-	-6.56
CHP plants	-	-	-	-	-	-	-	-	-	-	-
Heat plants	-	-	-	-	-	-	-	-	-	-	-
Blast furnaces	-	-	-	-	-	-	-	-	-	-	-
Gas works	-	-	-	-	-	-	-	-	-	-	-
Coke/pat. fuel/BKB plants	-	-	-	-	-	-	-	-	-	-	-
Oil refineries	-	-12.23	12.43	-	-	-	-	-	-	-	0.19
Petrochemical plants	-	-	-	-	-	-	-	-	-	-	-
Liquefaction plants	-	-	-	-	-	-	-	-	-	-	-
Other transformation	-	-	-	-	-	-	-	-	-	-	-
Energy industry own use	-	-	-0.61	-0.10 e	-	-	-	-	-0.38	-	-1.09
Losses	-	-	-	-	-	-	-	-	-0.15	-	-0.15
<b>TFC</b>	<b>-</b>	<b>-</b>	<b>9.03</b>	<b>0.17</b>	<b>-</b>	<b>-</b>	<b>1.04</b>	<b>0.01</b>	<b>3.91</b>	<b>-</b>	<b>14.15</b>
<b>INDUSTRY</b>	<b>-</b>	<b>-</b>	<b>0.05</b>	<b>0.17</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.91</b>	<b>-</b>	<b>1.13</b>
Iron and steel	-	-	-	-	-	-	-	-	0.08	-	0.08
Chemical and petrochem.	-	-	-	-	-	-	-	-	0.18	-	0.18
Non-ferrous metals	-	-	-	-	-	-	-	-	-	-	-
Non-metallic minerals	-	-	-	-	-	-	-	-	0.06	-	0.06
Transport equipment	-	-	-	-	-	-	-	-	0.03	-	0.03
Machinery	-	-	-	-	-	-	-	-	0.07	-	0.07
Mining and quarrying	-	-	-	-	-	-	-	-	0.09	-	0.09
Food and tobacco	-	-	-	-	-	-	-	-	0.11	-	0.11
Paper, pulp and printing	-	-	-	-	-	-	-	-	0.05	-	0.05
Wood and wood products	-	-	-	-	-	-	-	-	0.01	-	0.01
Construction	-	-	-	-	-	-	-	-	0.08	-	0.08
Textile and leather	-	-	-	-	-	-	-	-	0.03	-	0.03
Non-specified	-	-	0.05	0.17	-	-	-	-	0.12	-	0.35
<b>TRANSPORT</b>	<b>-</b>	<b>-</b>	<b>5.74</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>5.74</b>
Domestic aviation	-	-	-	-	-	-	-	-	-	-	-
Road	-	-	5.74	-	-	-	-	-	-	-	5.74
Rail	-	-	-	-	-	-	-	-	-	-	-
Pipeline transport	-	-	-	-	-	-	-	-	-	-	-
Domestic navigation	-	-	-	-	-	-	-	-	-	-	-
Non-specified	-	-	-	-	-	-	-	-	-	-	-
<b>OTHER</b>	<b>-</b>	<b>-</b>	<b>2.02</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1.04</b>	<b>0.01</b>	<b>3.00</b>	<b>-</b>	<b>6.07</b>
Residential	-	-	0.98	-	-	-	1.04	0.00	1.30	-	3.33
Comm. and public services	-	-	-	-	-	-	-	-	1.34	-	1.34
Agriculture/forestry	-	-	-	-	-	-	-	-	0.15	-	0.15
Fishing	-	-	-	-	-	-	-	-	-	-	-
Non-specified	-	-	1.03	-	-	-	-	0.01	0.21	-	1.26
<b>NON-ENERGY USE</b>	<b>-</b>	<b>-</b>	<b>1.22</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1.22</b>
in industry/transf./energy	-	-	1.22	-	-	-	-	-	-	-	1.22
of which: feedstocks	-	-	0.94	-	-	-	-	-	-	-	0.94
in transport	-	-	-	-	-	-	-	-	-	-	-
in other	-	-	-	-	-	-	-	-	-	-	-
<b>Electricity and Heat Output</b>											
<b>Elec. generated - TWh</b>	<b>34.40</b>	<b>-</b>	<b>2.23</b>	<b>18.02</b>	<b>-</b>	<b>0.02</b>	<b>0.30</b>	<b>0.04</b>	<b>-</b>	<b>-</b>	<b>55.01</b>
Electricity plants	34.40	-	2.23	18.02	-	0.02	0.30	0.04	-	-	55.01
CHP plants	-	-	-	-	-	-	-	-	-	-	-
<b>Heat generated - PJ</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
CHP plants	-	-	-	-	-	-	-	-	-	-	-
Heat plants	-	-	-	-	-	-	-	-	-	-	-

0

\* Includes crude oil, NGL, refinery feedstocks, additives and other hydrocarbons.



## Israel

## Estimated energy supply balance for 2010

Million tonnes of oil equivalent											
SUPPLY	Coal & peat	Crude oil*	Oil products	Natural gas	Nuclear	Hydro	Geotherm. solar etc.	Biofuels & waste	Electricity	Heat	Total
Production	0.03	-	-	2.63	-	0.00	1.04	0.02	-	-	3.73
Imports	7.10	11.98	2.24	1.74	-	-	-	-	-	-	23.06
Exports	-	-	-3.37	-	-	-	-	-	-0.33	-	-3.70
Intl. marine bunkers	-	-	-0.33	-	-	-	-	-	-	-	-0.33
Intl. aviation bunkers	-	-	-0.86	-	-	-	-	-	-	-	-0.86
Stock changes	-	-	-	-	-	-	-	-	-	-	-
<b>TPES</b>	<b>7.13</b>	<b>11.98</b>	<b>-2.31</b>	<b>4.37</b>	<b>-</b>	<b>0.00</b>	<b>1.04</b>	<b>0.02</b>	<b>-0.33</b>	<b>-</b>	<b>21.91</b>
Electricity and Heat Output											
Elec. generated - TWh	33.03	-	2.23	21.62	-	0.02	0.30	0.04	-	-	57.24
Heat generated - PJ	-	-	-	-	-	-	-	-	-	-	-

\* Includes crude oil, NGL, refinery feedstocks, additives and other hydrocarbons.

## Key indicators

	1960	1971	1980	1990	2000	2008	2009	2010e
Energy production (Mtoe)	..	5.9	0.2	0.4	0.6	3.9	3.3	3.7
Net imports (Mtoe)	..	0.4	8.5	11.4	18.2	19.5	19.4	19.4
Total primary energy supply (Mtoe)	..	5.7	7.8	11.5	18.3	22.3	21.6	21.9
Net oil imports (Mtoe)	..	0.4	8.5	9.0	12.3	11.9	11.1	10.9
Oil supply (Mtoe)	..	5.6	7.7	8.8	11.3	10.7	10.0	9.7
Electricity consumption (TWh)*	..	7.0	11.7	19.5	39.8	52.1	49.5	51.7
GDP (billion 2000 USD)	..	32.4	48.7	70.4	124.7	160.9	162.2	169.6
GDP PPP (billion 2000 USD)	..	38.3	57.7	83.4	147.8	190.7	192.2	201.1
Population (millions)	..	3.09	3.90	4.68	6.29	7.31	7.44	7.57
Industrial production index (2005=100)	..	..	..	54.90	97.00	123.20	115.80	124.80
Total self-sufficiency**	..	1.0347	0.0196	0.0370	0.0352	0.1748	0.1516	0.1703
Coal and peat self-sufficiency**	..	..	-	0.0093	0.0042	0.0038	0.0042	0.0045
Oil self-sufficiency**	..	1.0358	0.0026	0.0015	0.0004	-	-	-
Natural gas self-sufficiency**	..	1.0000	1.0000	1.0000	1.0000	0.9136	0.6343	0.6021
TPES/GDP (toe per thousand 2000 USD)	..	0.1774	0.1608	0.1630	0.1464	0.1387	0.1329	0.1291
TPES/GDP PPP (toe per thousand 2000 USD)	..	0.1497	0.1357	0.1375	0.1235	0.1170	0.1121	0.1090
TPES/population (toe per capita)	..	1.8550	2.0069	2.4541	2.9017	3.0528	2.8959	2.8929
Net oil imports/GDP (toe per thousand 2000 USD)	..	0.0124	0.1741	0.1280	0.0983	0.0741	0.0685	0.0639
Oil supply/GDP (toe per thousand 2000 USD)	..	0.1740	0.1583	0.1255	0.0905	0.0665	0.0614	0.0570
Oil supply/population (toe per capita)	..	1.8191	1.9762	1.8904	1.7944	1.4639	1.3376	1.2762
Elect. cons./GDP (kWh per 2000 USD)	..	0.2171	0.2409	0.2764	0.3189	0.3240	0.3050	0.3047
Elect. cons./population (kWh per capita)	..	2270	3007	4162	6323	7133	6648	6826
Industry cons.***/industrial production (2005=100)	..	..	..	146.88	121.27	69.04	75.23	..
Industry oil cons.***/industrial production (2005=100)	..	..	..	182.04	137.92	58.78	65.51	..

\* Electricity consumption equals domestic supply less losses.

\*\* Production divided by TPES.

\*\*\* Includes non-energy use.

Israel

Figure 1. Energy production

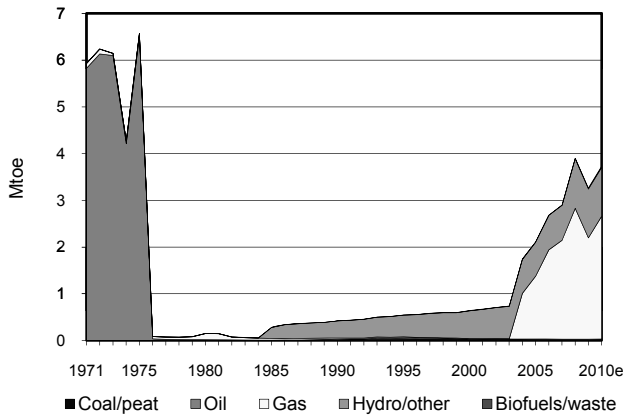


Figure 2. Total primary energy supply\*

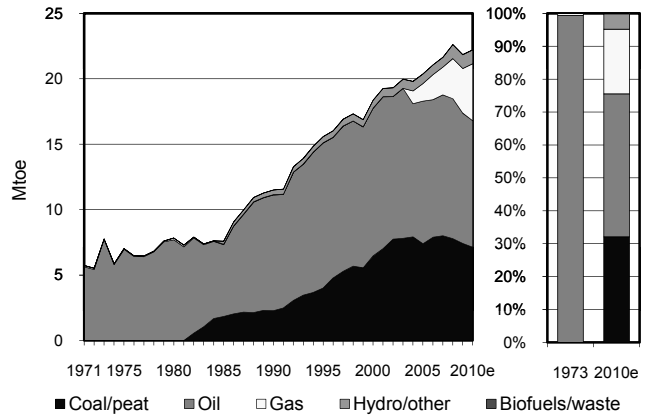


Figure 3. Energy self-sufficiency

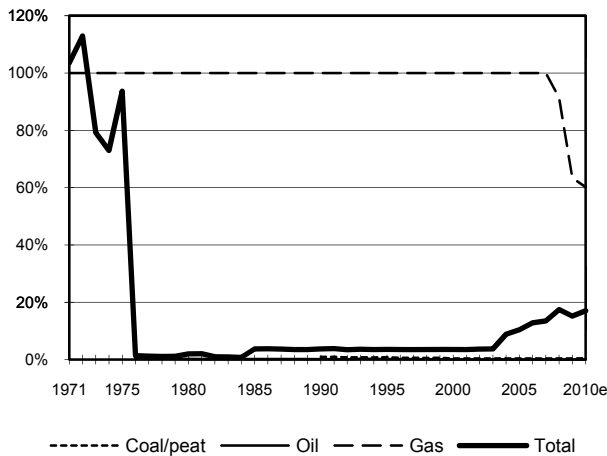


Figure 4. Breakdown of sectorial final consumption by source in 1973 and 2009\*\*

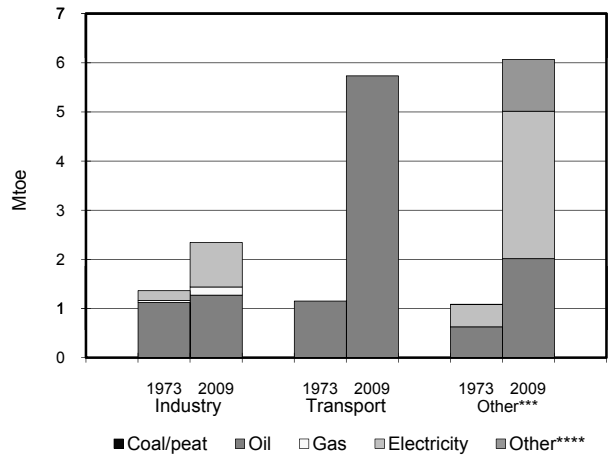


Figure 5. Electricity generation by fuel

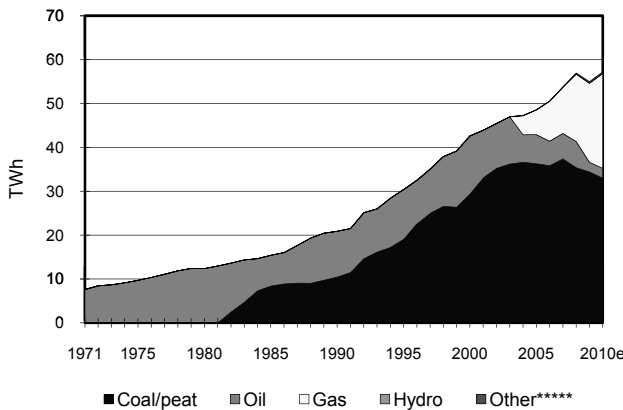
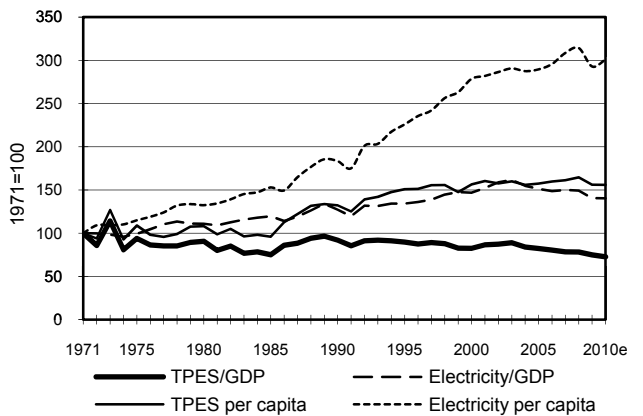


Figure 6. Selected indicators



\* Excluding electricity trade.  
 \*\* Includes non-energy use.  
 \*\*\* Includes residential, commercial and public services, agriculture/forestry, fishing and non-specified.  
 \*\*\*\* Includes biofuels and waste, direct use of geothermal/solar thermal and heat produced in CHP/heat plants.  
 \*\*\*\*\* Includes geothermal, solar, wind, biofuels and waste, etc.

## Italy : 2008

Million tonnes of oil equivalent											
SUPPLY AND CONSUMPTION	Coal & peat	Crude oil*	Oil products	Natural gas	Nuclear	Hydro	Geotherm. solar etc.	Biofuels & waste	Electricity	Heat	Total
Production	0.07	5.68	-	7.58	-	3.58	5.46	4.59	-	-	26.97
Imports	16.73	89.65	12.02	62.94	-	-	-	0.90	3.74	-	185.98
Exports	-0.17	-2.14	-27.50	-0.17	-	-	-	-0.10	-0.29	-	-30.38
Intl. marine bunkers	-	-	-2.52	-	-	-	-	-	-	-	-2.52
Intl. aviation bunkers	-	-	-3.29	-	-	-	-	-	-	-	-3.29
Stock changes	-0.36	0.40	0.16	-0.84	-	-	-	-0.05	-	-	-0.69
<b>TPES</b>	<b>16.28</b>	<b>93.59</b>	<b>-21.13</b>	<b>69.50</b>	<b>-</b>	<b>3.58</b>	<b>5.46</b>	<b>5.34</b>	<b>3.44</b>	<b>-</b>	<b>176.06</b>
Transfers	-	-	0.12	-	-	-	-	-	-	-	0.12
Statistical differences	-0.43	-0.10	1.12	0.00	-	-	-	-	-0.00	-	0.59
Electricity plants	-10.61	-	-3.51	-15.59	-	-3.58	-5.18	-1.53	18.11	-	-21.89
CHP plants	-0.98	-	-6.06	-15.38	-	-	-	-1.12	8.85	4.74	-9.94
Heat plants	-	-	-	-	-	-	-	-	-	-	-
Blast furnaces	-1.38 e	-	-	-	-	-	-	-	-	-	-1.38
Gas works	-	-	-	-	-	-	-	-	-	-	-
Coke/pat. fuel/BKB plants	-0.70	-	-	-	-	-	-	-	-	-	-0.70
Oil refineries	-	-94.90	96.14	-	-	-	-	-	-	-	1.23
Petrochemical plants	-	1.42	-1.49	-	-	-	-	-	-	-	-0.07
Liquefaction plants	-	-	-	-	-	-	-	-	-	-	-
Other transformation	-	-	-	-	-	-	-	-0.11	-	-	-0.11
Energy industry own use	-0.06	-	-4.92	-0.87	-	-	-	-	-2.05	-1.56	-9.46
Losses	-	-	-	-0.35	-	-	-	-	-1.76	-	-2.11
<b>TFC</b>	<b>2.12</b>	<b>-</b>	<b>60.26</b>	<b>37.31</b>	<b>-</b>	<b>-</b>	<b>0.28</b>	<b>2.58</b>	<b>26.60</b>	<b>3.17</b>	<b>132.33</b>
<b>INDUSTRY</b>	<b>1.95</b>	<b>-</b>	<b>6.30</b>	<b>11.30</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.34</b>	<b>12.18</b>	<b>3.03</b>	<b>35.11</b>
Iron and steel	1.32 e	-	0.10	1.84	-	-	-	-	1.86	0.01	5.13
Chemical and petrochem.	0.01	-	0.76	1.34	-	-	-	0.01	1.51	1.10	4.72
Non-ferrous metals	0.01	-	0.07	0.37	-	-	-	-	0.48	0.00	0.93
Non-metallic minerals	0.61	-	3.40	2.86	-	-	-	0.24	1.20	0.10	8.41
Transport equipment	-	-	-	-	-	-	-	-	0.37	0.10	0.46
Machinery	-	-	0.65	1.99	-	-	-	-	1.99	0.02	4.65
Mining and quarrying	-	-	0.04	0.04	-	-	-	-	0.09	0.01	0.18
Food and tobacco	-	-	0.67	1.26	-	-	-	0.03	1.10	0.22	3.29
Paper, pulp and printing	-	-	0.21	0.83	-	-	-	-	0.88	0.65	2.57
Wood and wood products	-	-	-	-	-	-	-	-	0.37	0.03	0.40
Construction	-	-	0.04	-	-	-	-	-	0.16	0.00	0.20
Textile and leather	-	-	0.23	0.71	-	-	-	-	0.65	0.06	1.65
Non-specified	0.01	-	0.15	0.05	-	-	-	0.06	1.52	0.73	2.51
<b>TRANSPORT</b>	<b>-</b>	<b>-</b>	<b>38.44</b>	<b>0.55</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.75</b>	<b>0.93</b>	<b>-</b>	<b>40.67</b>
Domestic aviation	-	-	0.78	-	-	-	-	-	-	-	0.78
Road	-	-	36.17	0.55	-	-	-	0.75	-	-	37.47
Rail	-	-	0.07	-	-	-	-	-	0.39	-	0.46
Pipeline transport	-	-	-	-	-	-	-	-	0.04	-	0.04
Domestic navigation	-	-	1.41	-	-	-	-	-	-	-	1.41
Non-specified	-	-	-	-	-	-	-	-	0.50	-	0.50
<b>OTHER</b>	<b>0.00</b>	<b>-</b>	<b>7.47</b>	<b>24.77</b>	<b>-</b>	<b>-</b>	<b>0.28</b>	<b>1.49</b>	<b>13.49</b>	<b>0.14</b>	<b>47.64</b>
Residential	0.00	-	3.94	16.01	-	-	0.07	1.33	5.88	0.04	27.27
Comm. and public services	-	-	1.05	8.62	-	-	-	-	7.12	0.07	16.86
Agriculture/forestry	-	-	2.16	0.14	-	-	-	0.16	0.48	0.00	2.94
Fishing	-	-	0.22	-	-	-	-	-	0.01	-	0.23
Non-specified	-	-	0.10	-	-	-	0.21	-	-	0.03	0.34
<b>NON-ENERGY USE</b>	<b>0.16</b>	<b>-</b>	<b>8.05</b>	<b>0.70</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>8.91</b>
in industry/transf./energy	-	-	7.81	0.70	-	-	-	-	-	-	8.50
of which: feedstocks	-	-	5.17	0.70	-	-	-	-	-	-	5.87
in transport	-	-	0.24	-	-	-	-	-	-	-	0.24
in other	0.16	-	-	-	-	-	-	-	-	-	0.16
<b>Electricity and Heat Output</b>											
<b>Elec. generated - TWh</b>	<b>48.59</b>	<b>0.00</b>	<b>31.46</b>	<b>172.70</b>	<b>-</b>	<b>41.62</b>	<b>11.49</b>	<b>7.66</b>	<b>-</b>	<b>-</b>	<b>313.53</b>
Electricity plants	44.38	-	13.37	95.13	-	41.62	11.49	4.61	-	-	210.60
CHP plants	4.21	0.00	18.09	77.57	-	-	-	3.05	-	-	102.93
<b>Heat generated - PJ</b>	<b>1.89</b>	<b>0.01</b>	<b>64.65</b>	<b>121.04</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>10.79</b>	<b>-</b>	<b>-</b>	<b>198.37</b>
CHP plants	1.89	0.01	64.65	121.04	-	-	-	10.79	-	-	198.37
Heat plants	-	-	-	-	-	-	-	-	-	-	-

\* Includes crude oil, NGL, refinery feedstocks, additives and other hydrocarbons.

**Italy : 2009**

Million tonnes of oil equivalent											
<b>SUPPLY AND CONSUMPTION</b>	Coal & peat	Crude oil*	Oil products	Natural gas	Nuclear	Hydro	Geotherm. solar etc.	Biofuels & waste	Electricity	Heat	Total
Production	0.05	4.92	-	6.56	-	4.23	5.51	5.75	-	-	27.01
Imports	12.61	82.52	11.63	56.70	-	-	-	1.35	4.05	-	168.86
Exports	-0.19	-2.30	-24.78	-0.10	-	-	-	-0.09	-0.18	-	-27.65
Intl. marine bunkers	-	-	-2.35	-	-	-	-	-	-	-	-2.35
Intl. aviation bunkers	-	-	-3.00	-	-	-	-	-	-	-	-3.00
Stock changes	0.29	-0.16	0.90	0.73	-	-	-	0.01	-	-	1.76
<b>TPES</b>	<b>12.75</b>	<b>84.97</b>	<b>-17.60</b>	<b>63.88</b>	<b>-</b>	<b>4.23</b>	<b>5.51</b>	<b>7.03</b>	<b>3.87</b>	<b>-</b>	<b>164.63</b>
Transfers	-	-	-	-	-	-	-	-	-	-	-
Statistical differences	-0.35	0.11	-0.38	-	-	-	-	-0.00	-	-	-0.62
Electricity plants	-9.29	-	-2.86	-11.35	-	-4.23	-5.21	-1.95	16.16	-	-18.73
CHP plants	-0.76	-	-4.71	-15.08	-	-	-	-1.15	8.64	4.32	-8.75
Heat plants	-	-	-	-	-	-	-	-	-	-	-
Blast furnaces	-0.86 e	-	-	-	-	-	-	-	-	-	-0.86
Gas works	-	-	-	-	-	-	-	-	-	-	-
Coke/pat. fuel/BKB plants	-0.33	-	-	-	-	-	-	-	-	-	-0.33
Oil refineries	-	-86.66	87.72	-	-	-	-	-	-	-	1.06
Petrochemical plants	-	1.57	-1.63	-	-	-	-	-	-	-	-0.06
Liquefaction plants	-	-	-	-	-	-	-	-	-	-	-
Other transformation	-	-	-	-	-	-	-	-0.10	-	-	-0.10
Energy industry own use	-0.04	-	-4.85	-0.46	-	-	-	-	-1.97	-1.22	-8.55
Losses	-	-	-	-0.37	-	-	-	-	-1.75	-	-2.12
<b>TFC</b>	<b>1.10</b>	<b>-</b>	<b>55.68</b>	<b>36.63</b>	<b>-</b>	<b>-</b>	<b>0.30</b>	<b>3.83</b>	<b>24.94</b>	<b>3.09</b>	<b>125.58</b>
<b>INDUSTRY</b>	<b>1.00</b>	<b>-</b>	<b>4.33</b>	<b>9.89</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.39</b>	<b>10.37</b>	<b>2.94</b>	<b>28.92</b>
Iron and steel	0.87 e	-	0.13	1.08	-	-	-	-	1.35	0.27	3.70
Chemical and petrochem.	0.00	-	0.43	1.59	-	-	-	0.00	1.25	1.09	4.36
Non-ferrous metals	0.01	-	0.05	0.36	-	-	-	-	0.44	0.00	0.86
Non-metallic minerals	0.11	-	2.37	2.27	-	-	-	0.37	1.01	0.07	6.20
Transport equipment	-	-	-	-	-	-	-	-	0.31	0.10	0.41
Machinery	-	-	0.46	1.61	-	-	-	-	1.64	0.02	3.73
Mining and quarrying	-	-	0.03	0.04	-	-	-	-	0.08	0.00	0.15
Food and tobacco	-	-	0.44	1.28	-	-	-	0.01	1.08	0.18	2.99
Paper, pulp and printing	-	-	0.13	0.95	-	-	-	-	0.81	0.54	2.43
Wood and wood products	-	-	-	-	-	-	-	-	0.33	0.03	0.36
Construction	-	-	0.04	-	-	-	-	-	0.16	0.00	0.19
Textile and leather	-	-	0.14	0.68	-	-	-	-	0.53	0.03	1.38
Non-specified	0.00	-	0.11	0.04	-	-	-	-	1.38	0.61	2.14
<b>TRANSPORT</b>	<b>-</b>	<b>-</b>	<b>36.40</b>	<b>0.60</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1.18</b>	<b>0.91</b>	<b>-</b>	<b>39.09</b>
Domestic aviation	-	-	0.69	-	-	-	-	-	-	-	0.69
Road	-	-	34.46	0.60	-	-	-	1.18	-	-	36.24
Rail	-	-	0.06	-	-	-	-	-	0.38	-	0.44
Pipeline transport	-	-	-	-	-	-	-	-	0.04	-	0.04
Domestic navigation	-	-	1.19	-	-	-	-	-	-	-	1.19
Non-specified	-	-	-	-	-	-	-	-	0.48	-	0.48
<b>OTHER</b>	<b>0.00</b>	<b>-</b>	<b>7.14</b>	<b>25.57</b>	<b>-</b>	<b>-</b>	<b>0.30</b>	<b>2.25</b>	<b>13.66</b>	<b>0.16</b>	<b>49.08</b>
Residential	0.00	-	3.79	16.82	-	-	0.08	2.00	5.93	0.05	28.68
Comm. and public services	-	-	0.84	8.61	-	-	-	-	7.25	0.06	16.76
Agriculture/forestry	-	-	2.18	0.14	-	-	-	0.25	0.48	0.01	3.06
Fishing	-	-	0.23	-	-	-	-	-	0.01	-	0.23
Non-specified	-	-	0.11	-	-	-	0.21	-	-	0.03	0.35
<b>NON-ENERGY USE</b>	<b>0.10</b>	<b>-</b>	<b>7.82</b>	<b>0.57</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>8.49</b>
in industry/transf./energy	-	-	7.61	0.57	-	-	-	-	-	-	8.18
<i>of which: feedstocks</i>	-	-	4.64	0.57	-	-	-	-	-	-	5.21
in transport	-	-	0.20	-	-	-	-	-	-	-	0.20
in other	0.10	-	0.01	-	-	-	-	-	-	-	0.11
<b>Electricity and Heat Output</b>											
<b>Elec. generated - TWh</b>	<b>43.42</b>	<b>-</b>	<b>25.95</b>	<b>147.27</b>	<b>-</b>	<b>49.14</b>	<b>13.16</b>	<b>9.40</b>	<b>-</b>	<b>-</b>	<b>288.34</b>
Electricity plants	40.07	-	10.84	68.54	-	49.14	13.16	6.15	-	-	187.90
CHP plants	3.35	-	15.11	78.73	-	-	-	3.25	-	-	100.44
<b>Heat generated - PJ</b>	<b>1.00</b>	<b>-</b>	<b>62.53</b>	<b>107.96</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>9.33</b>	<b>-</b>	<b>-</b>	<b>180.82</b>
CHP plants	1.00	-	62.53	107.96	-	-	-	9.33	-	-	180.82
Heat plants	-	-	-	-	-	-	-	-	-	-	-

\* Includes crude oil, NGL, refinery feedstocks, additives and other hydrocarbons.

## Italy

## Estimated energy supply balance for 2010

Million tonnes of oil equivalent											
SUPPLY	Coal & peat	Crude oil*	Oil products	Natural gas	Nuclear	Hydro	Geotherm. solar etc.	Biofuels & waste	Electricity	Heat	Total
Production	0.06	5.48	-	6.80	-	4.35	5.79	6.35	-	-	28.83
Imports	14.47	85.47	11.34	61.69	-	-	-	1.66	3.94	-	178.56
Exports	-0.21	-1.66	-28.45	-0.12	-	-	-	-0.10	-0.16	-	-30.69
Intl. marine bunkers	-	-	-2.41	-	-	-	-	-	-	-	-2.41
Intl. aviation bunkers	-	-	-3.16	-	-	-	-	-	-	-	-3.16
Stock changes	-0.39	-0.54	0.23	-0.43	-	-	-	0.17	-	-	-0.95
<b>TPES</b>	<b>13.93</b>	<b>88.75</b>	<b>-22.45</b>	<b>67.94</b>	<b>-</b>	<b>4.35</b>	<b>5.79</b>	<b>8.07</b>	<b>3.78</b>	<b>-</b>	<b>170.17</b>
Electricity and Heat Output											
Elec. generated - TWh	41.60	-	21.55	153.80	-	50.58	16.14	11.35	-	-	295.02
Heat generated - PJ	1.00	-	62.53	107.96	-	-	-	9.33	-	-	180.82

\* Includes crude oil, NGL, refinery feedstocks, additives and other hydrocarbons.

## Key indicators

	1960	1971	1980	1990	2000	2008	2009	2010e
Energy production (Mtoe)	13.8	19.5	19.9	25.3	28.2	27.0	27.0	28.8
Net imports (Mtoe)	31.0	96.4	116.8	127.3	152.4	155.6	141.2	147.9
Total primary energy supply (Mtoe)	39.9	105.4	130.8	146.6	171.5	176.1	164.6	170.2
Net oil imports (Mtoe)	23.8	87.9	92.8	85.1	88.0	72.0	67.1	66.7
Oil supply (Mtoe)	20.9	79.1	88.2	83.3	86.9	72.5	67.4	66.3
Electricity consumption (TWh)*	49.0	116.4	175.2	235.1	301.8	338.7	317.3	321.8
GDP (billion 2000 USD)	292.1 e	518.2	739.1	937.6	1097.3	1171.8	1110.7	1125.1
GDP PPP (billion 2000 USD)	388.0 e	688.2	981.6	1245.2	1457.4	1556.3	1475.1	1494.2
Population (millions)	49.94 e	54.07	56.43	56.72	56.94	59.83	60.19	60.00
Industrial production index (2005=100)	29.20	57.10	80.90	90.20	104.30	101.70	83.10	87.50
Total self-sufficiency**	0.3468	0.1853	0.1521	0.1727	0.1642	0.1532	0.1641	0.1694
Coal and peat self-sufficiency**	0.0889	0.0597	0.0275	0.0188	0.0003	0.0046	0.0036	0.0046
Oil self-sufficiency**	0.1003	0.0159	0.0197	0.0536	0.0540	0.0785	0.0730	0.0826
Natural gas self-sufficiency**	1.0000	1.0158	0.4516	0.3597	0.2351	0.1090	0.1027	0.1000
TPES/GDP (toe per thousand 2000 USD)	0.1366 e	0.2034	0.1770	0.1563	0.1563	0.1502	0.1482	0.1513
TPES/GDP PPP (toe per thousand 2000 USD)	0.1028 e	0.1531	0.1333	0.1177	0.1177	0.1131	0.1116	0.1139
TPES/population (toe per capita)	0.7989 e	1.9491	2.3184	2.5839	3.0122	2.9426	2.7350	2.8362
Net oil imports/GDP (toe per thousand 2000 USD)	0.0813 e	0.1696	0.1255	0.0908	0.0802	0.0615	0.0604	0.0593
Oil supply/GDP (toe per thousand 2000 USD)	0.0716 e	0.1527	0.1194	0.0889	0.0791	0.0618	0.0607	0.0589
Oil supply/population (toe per capita)	0.4189 e	1.4630	1.5635	1.4690	1.5253	1.2110	1.1191	1.1050
Elect. cons./GDP (kWh per 2000 USD)	0.1676 e	0.2246	0.2371	0.2507	0.2750	0.2891	0.2856	0.2860
Elect. cons./population (kWh per capita)	980 e	2153	3105	4145	5300	5661	5271	5363
Industry cons.***/industrial production (2005=100)	128.50	161.80	118.64	105.60	95.07	92.42	96.22	..
Industry oil cons.***/industrial production (2005=100)	200.30	356.48	204.31	135.95	96.00	103.09	106.71	..

\* Electricity consumption equals domestic supply less losses.

\*\* Production divided by TPES.

\*\*\* Includes non-energy use.

Italy

Figure 1. Energy production

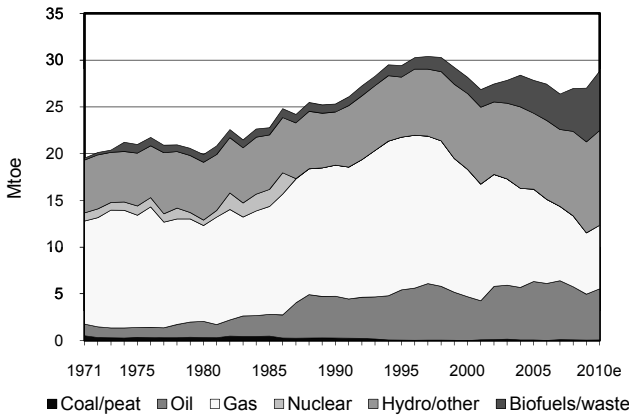


Figure 2. Total primary energy supply\*

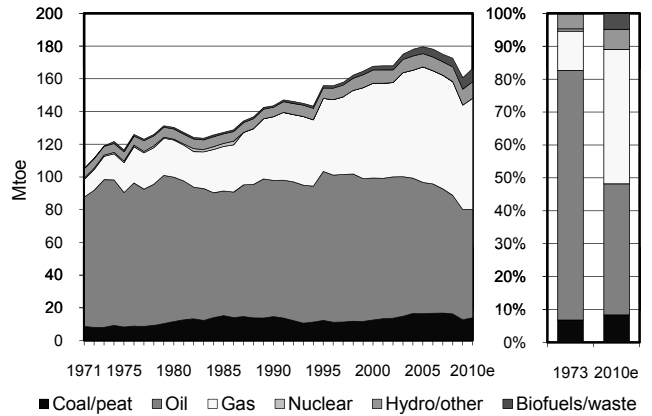


Figure 3. Energy self-sufficiency

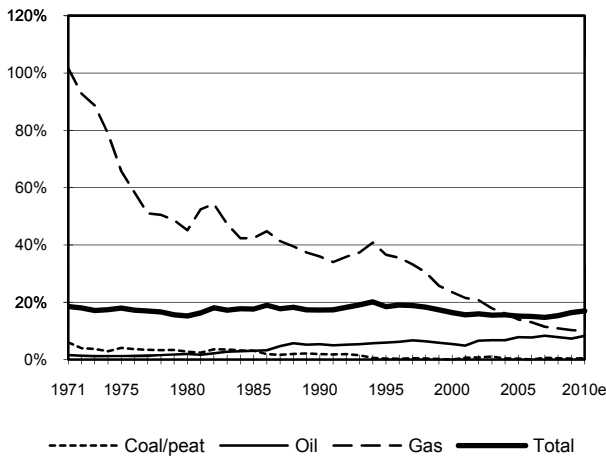


Figure 4. Breakdown of sectorial final consumption by source in 1973 and 2010\*\*

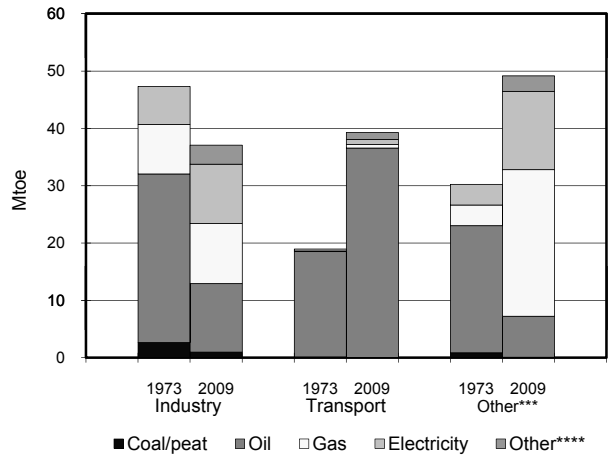


Figure 5. Electricity generation by fuel

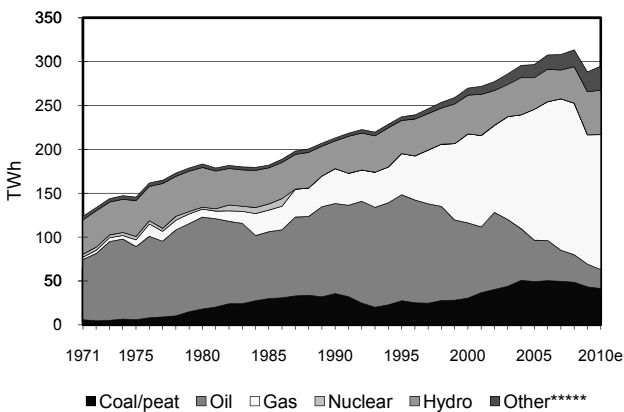
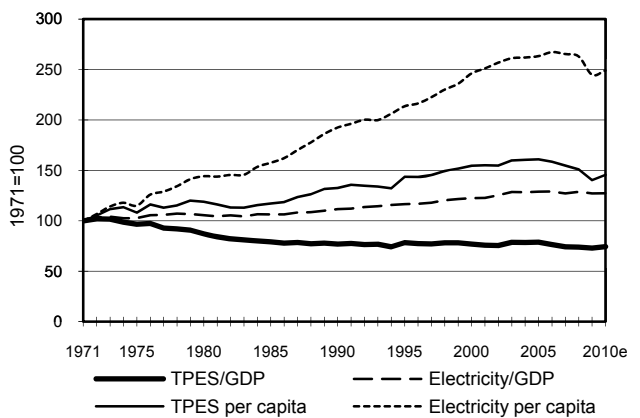


Figure 6. Selected indicators



\* Excluding electricity trade.  
 \*\* Includes non-energy use.  
 \*\*\* Includes residential, commercial and public services, agriculture/forestry, fishing and non-specified.  
 \*\*\*\* Includes biofuels and waste, direct use of geothermal/solar thermal and heat produced in CHP/heat plants.  
 \*\*\*\*\* Includes geothermal, solar, wind, biofuels and waste, etc.

## Japan : 2008

Million tonnes of oil equivalent											
SUPPLY AND CONSUMPTION	Coal & peat	Crude oil*	Oil products	Natural gas	Nuclear	Hydro	Geotherm. solar etc.	Biofuels & waste	Electricity	Heat	Total
Production	-	0.77	-	3.56	67.27	6.57	3.50 e	7.02	-	-	88.69
Imports	114.99	201.57	42.60	79.88	-	-	-	-	-	-	439.05
Exports	-0.67	-	-19.82	-	-	-	-	-	-	-	-20.49
Intl. marine bunkers	-	-	-5.31	-	-	-	-	-	-	-	-5.31
Intl. aviation bunkers	-	-	-5.92	-	-	-	-	-	-	-	-5.92
Stock changes	-0.68	0.26	-0.33	0.28	-	-	-	0.00	-	-	-0.47
<b>TPES</b>	<b>113.64</b>	<b>202.60</b>	<b>11.22</b>	<b>83.71</b>	<b>67.27</b>	<b>6.57</b>	<b>3.50 e</b>	<b>7.02</b>	<b>-</b>	<b>-</b>	<b>495.55</b>
Transfers	-	-	-0.02	-	-	-	-	-	-	-	-0.02
Statistical differences	-6.01	-2.48	-1.08	2.61	-	-	-0.00	-	-0.00	-	-6.96
Electricity plants	-60.63	-6.91	-19.32	-51.80	-67.27	-6.57	-2.81 e	-4.31	92.49 e	-	-127.12
CHP plants	-	-	-	-	-	-	-	-	-	-	-
Heat plants	-0.01	-	-0.01	-0.36	-	-	-	-0.14	-0.10	0.60	-0.03
Blast furnaces	-15.91 e	-	-	-	-	-	-	-	-	-	-15.91
Gas works	-	-	-1.54	1.47	-	-	-	-	-	-	-0.06
Coke/pat. fuel/BKB plants	0.08	-	-0.40	-	-	-	-	-	-	-	-0.32
Oil refineries	-	-198.18	196.02	-	-	-	-	-	-	-	-2.16
Petrochemical plants	-	5.33	-5.56	-	-	-	-	-	-	-	-0.23
Liquefaction plants	-	-	-	-	-	-	-	-	-	-	-
Other transformation	-	-	-	-	-	-	-	-0.02 e	-	-	-0.02
Energy industry own use	-2.95	-0.00	-8.17	-3.03	-	-	-	-	-5.04	-0.02	-19.21
Losses	-	-	-	-	-	-	-	-	-4.24	-	-4.24
<b>TFC</b>	<b>28.22</b>	<b>0.36</b>	<b>171.15</b>	<b>32.61</b>	<b>-</b>	<b>-</b>	<b>0.69</b>	<b>2.55</b>	<b>83.11</b>	<b>0.57</b>	<b>319.27</b>
<b>INDUSTRY</b>	<b>27.30</b>	<b>0.02</b>	<b>23.04</b>	<b>7.44</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>2.53</b>	<b>26.42</b>	<b>-</b>	<b>86.76</b>
Iron and steel	12.16 e	-	1.66	1.88	-	-	-	-	5.43	-	21.12
Chemical and petrochem.	3.00	0.02	7.92	0.96	-	-	-	0.01	4.40	-	16.31
Non-ferrous metals	0.26	-	0.33	0.05	-	-	-	-	1.43	-	2.06
Non-metallic minerals	4.17	-	1.90	0.37	-	-	-	0.10	1.95	-	8.48
Transport equipment	-	-	-	-	-	-	-	-	-	-	-
Machinery	0.11	-	0.88	1.47	-	-	-	-	6.69	-	9.15
Mining and quarrying	0.01	-	0.14	0.08	-	-	-	-	0.08	-	0.30
Food and tobacco	-	-	2.00	1.11	-	-	-	-	1.45	-	4.55
Paper, pulp and printing	1.46	-	1.12	0.44	-	-	-	2.42	2.79	-	8.23
Wood and wood products	-	-	-	-	-	-	-	-	-	-	-
Construction	0.00	-	3.19	0.71	-	-	-	-	0.08	-	3.97
Textile and leather	-	-	-	-	-	-	-	-	-	-	-
Non-specified	6.14	-	3.91	0.38	-	-	-	-	2.14	-	12.58
<b>TRANSPORT</b>	<b>-</b>	<b>-</b>	<b>76.21</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1.62</b>	<b>-</b>	<b>77.83</b>
Domestic aviation	-	-	3.47	-	-	-	-	-	-	-	3.47
Road	-	-	69.08	-	-	-	-	-	-	-	69.08
Rail	-	-	0.21	-	-	-	-	-	1.62	-	1.82
Pipeline transport	-	-	-	-	-	-	-	-	-	-	-
Domestic navigation	-	-	3.46	-	-	-	-	-	-	-	3.46
Non-specified	-	-	-	-	-	-	-	-	-	-	-
<b>OTHER</b>	<b>0.53</b>	<b>-</b>	<b>36.18</b>	<b>24.82</b>	<b>-</b>	<b>-</b>	<b>0.69</b>	<b>0.02</b>	<b>55.07</b>	<b>0.57</b>	<b>117.89</b>
Residential	-	-	13.20	9.07	-	-	0.47	0.02	24.61	0.03	47.40
Comm. and public services	0.53	-	19.48	15.76	-	-	0.13	-	30.19	0.54	66.63
Agriculture/forestry	-	-	1.70	-	-	-	0.09	-	0.08	-	1.87
Fishing	-	-	1.80	-	-	-	-	-	-	-	1.80
Non-specified	-	-	-	-	-	-	-	-	0.19 e	-	0.19
<b>NON-ENERGY USE</b>	<b>0.39</b>	<b>0.34</b>	<b>35.72</b>	<b>0.35</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>36.79</b>
in industry/transf./energy	0.39	0.34	34.94	0.35	-	-	-	-	-	-	36.01
of which: feedstocks	0.39	0.34	29.38	0.35	-	-	-	-	-	-	30.45
in transport	-	-	0.78	-	-	-	-	-	-	-	0.78
in other	-	-	-	-	-	-	-	-	-	-	-
<b>Electricity and Heat Output</b>											
<b>Elec. generated - TWh</b>	<b>288.70</b>	<b>35.09</b>	<b>103.95</b>	<b>282.84</b>	<b>258.13</b>	<b>76.45</b>	<b>7.95 e</b>	<b>22.39</b>	<b>-</b>	<b>-</b>	<b>1075.49</b>
Electricity plants	288.70	35.09	103.95	282.84	258.13	76.45	7.95 e	22.39	-	-	1075.49
CHP plants	-	-	-	-	-	-	-	-	-	-	-
<b>Heat generated - PJ</b>	<b>0.50</b>	<b>-</b>	<b>0.37</b>	<b>14.97</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>5.43</b>	<b>3.68</b>	<b>-</b>	<b>24.95</b>
CHP plants	-	-	-	-	-	-	-	-	-	-	-
Heat plants	0.50	-	0.37	14.97	-	-	-	5.43	3.68	-	24.95

\* Includes crude oil, NGL, refinery feedstocks, additives and other hydrocarbons.

## Japan : 2009

Million tonnes of oil equivalent											
SUPPLY AND CONSUMPTION	Coal & peat	Crude oil*	Oil products	Natural gas	Nuclear	Hydro	Geotherm. solar etc.	Biofuels & waste	Electricity	Heat	Total
Production	-	0.75	-	3.43	72.90	6.47	3.66 e	6.58	-	-	93.79
Imports	101.83	182.06	40.97	77.76	-	-	-	-	-	-	402.63
Exports	-0.81	-	-17.36	-	-	-	-	-	-	-	-18.17
Intl. marine bunkers	-	-	-4.72	-	-	-	-	-	-	-	-4.72
Intl. aviation bunkers	-	-	-5.21	-	-	-	-	-	-	-	-5.21
Stock changes	0.28	2.33	1.59	-0.53	-	-	-	-0.01	-	-	3.66
<b>TPES</b>	<b>101.30</b>	<b>185.14</b>	<b>15.28</b>	<b>80.66</b>	<b>72.90</b>	<b>6.47</b>	<b>3.66 e</b>	<b>6.57</b>	<b>-</b>	<b>-</b>	<b>471.99</b>
Transfers	-	-	-0.01	-	-	-	-	-	-	-	-0.01
Statistical differences	0.61	-0.27	-1.58	5.25	-	-	-	-	-0.00	0.02	4.03
Electricity plants	-58.14	-3.18	-13.62	-51.76	-72.90	-6.47	-2.97 e	-4.08	89.52 e	-	-123.61
CHP plants	-	-	-	-	-	-	-	-	-	-	-
Heat plants	-	-	-0.01	-0.35	-	-	-	-0.14	-0.09	0.56	-0.03
Blast furnaces	-14.35 e	-	-	-	-	-	-	-	-	-	-14.35
Gas works	-	-	-1.54	1.47	-	-	-	-	-	-	-0.07
Coke/pat. fuel/BKB plants	-0.70	-	-0.41	-	-	-	-	-	-	-	-1.11
Oil refineries	-	-185.56	185.81	-	-	-	-	-	-	-	0.26
Petrochemical plants	-	4.32	-4.51	-	-	-	-	-	-	-	-0.19
Liquefaction plants	-	-	-	-	-	-	-	-	-	-	-
Other transformation	-	-	-	-	-	-	-	-0.02 e	-	-	-0.02
Energy industry own use	-2.91	-0.00	-8.24	-3.05	-	-	-	-	-4.75	-0.02	-18.97
Losses	-	-	-	-	-	-	-	-	-4.34	-	-4.34
<b>TFC</b>	<b>25.81</b>	<b>0.44</b>	<b>171.18</b>	<b>32.23</b>	<b>-</b>	<b>-</b>	<b>0.69</b>	<b>2.34</b>	<b>80.34</b>	<b>0.56</b>	<b>313.58</b>
<b>INDUSTRY</b>	<b>24.97</b>	<b>0.02</b>	<b>24.18</b>	<b>7.40</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>2.31</b>	<b>23.23</b>	<b>-</b>	<b>82.13</b>
Iron and steel	11.12 e	-	1.49	1.77	-	-	-	-	5.04	-	19.43
Chemical and petrochem.	2.83	0.02	9.26	1.04	-	-	-	0.02	4.21	-	17.38
Non-ferrous metals	0.23	-	0.30	0.05	-	-	-	-	1.34	-	1.93
Non-metallic minerals	3.60	-	1.96	0.39	-	-	-	0.08	1.86	-	7.88
Transport equipment	-	-	-	-	-	-	-	-	-	-	-
Machinery	0.11	-	0.84	1.40	-	-	-	-	6.10	-	8.45
Mining and quarrying	0.01	-	0.14	0.09	-	-	-	-	0.07	-	0.31
Food and tobacco	-	-	1.99	1.18	-	-	-	-	1.44	-	4.61
Paper, pulp and printing	1.45	-	0.91	0.42	-	-	-	2.22	2.60	-	7.61
Wood and wood products	-	-	-	-	-	-	-	-	-	-	-
Construction	0.00	-	3.23	0.73	-	-	-	-	0.07	-	4.03
Textile and leather	-	-	-	-	-	-	-	-	-	-	-
Non-specified	5.62	-	4.06	0.33	-	-	-	-	0.50	-	10.51
<b>TRANSPORT</b>	<b>-</b>	<b>-</b>	<b>74.42</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1.67</b>	<b>-</b>	<b>76.09</b>
Domestic aviation	-	-	3.31	-	-	-	-	-	-	-	3.31
Road	-	-	67.66	-	-	-	-	-	-	-	67.66
Rail	-	-	0.21	-	-	-	-	-	1.67	-	1.88
Pipeline transport	-	-	-	-	-	-	-	-	-	-	-
Domestic navigation	-	-	3.25	-	-	-	-	-	-	-	3.25
Non-specified	-	-	-	-	-	-	-	-	-	-	-
<b>OTHER</b>	<b>0.51</b>	<b>-</b>	<b>33.63</b>	<b>24.52</b>	<b>-</b>	<b>-</b>	<b>0.69</b>	<b>0.02</b>	<b>55.43</b>	<b>0.56</b>	<b>115.36</b>
Residential	-	-	12.73	9.04	-	-	0.47	0.02	24.60	0.03	46.89
Comm. and public services	0.51	-	17.35	15.48	-	-	0.13	-	30.52	0.53	64.53
Agriculture/forestry	-	-	1.71	-	-	-	0.09	-	0.08	-	1.87
Fishing	-	-	1.83	-	-	-	-	-	-	-	1.83
Non-specified	-	-	-	-	-	-	-	-	0.24 e	-	0.24
<b>NON-ENERGY USE</b>	<b>0.33</b>	<b>0.43</b>	<b>38.94</b>	<b>0.31</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>40.00</b>
in industry/transf./energy	0.33	0.43	38.17	0.31	-	-	-	-	-	-	39.22
of which: feedstocks	0.33	0.43	32.68	0.31	-	-	-	-	-	-	33.73
in transport	-	-	0.78	-	-	-	-	-	-	-	0.78
in other	-	-	-	-	-	-	-	-	-	-	-
<b>Electricity and Heat Output</b>											
<b>Elec. generated - TWh</b>	<b>279.45</b>	<b>16.36</b>	<b>75.25</b>	<b>284.95</b>	<b>279.75</b>	<b>75.19</b>	<b>8.60 e</b>	<b>21.43</b>	<b>-</b>	<b>-</b>	<b>1040.98</b>
Electricity plants	279.45	16.36	75.25	284.95	279.75	75.19	8.60 e	21.43	-	-	1040.98
CHP plants	-	-	-	-	-	-	-	-	-	-	-
<b>Heat generated - PJ</b>	<b>-</b>	<b>-</b>	<b>0.29</b>	<b>14.54</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>5.27</b>	<b>3.49</b>	<b>-</b>	<b>23.59</b>
CHP plants	-	-	-	-	-	-	-	-	-	-	-
Heat plants	-	-	0.29	14.54	-	-	-	5.27	3.49	-	23.59

\* Includes crude oil, NGL, refinery feedstocks, additives and other hydrocarbons.



## Japan

## Estimated energy supply balance for 2010

Million tonnes of oil equivalent											
SUPPLY	Coal & peat	Crude oil*	Oil products	Natural gas	Nuclear	Hydro	Geotherm. solar etc.	Biofuels & waste	Electricity	Heat	Total
Production	-	0.69	-	3.21	75.11	6.38	3.45	6.22	-	-	95.06
Imports	116.08	183.48	45.02	82.72	-	-	-	-	-	-	427.30
Exports	-0.46	-	-17.65	-	-	-	-	-	-	-	-18.11
Intl. marine bunkers	-	-	-4.68	-	-	-	-	-	-	-	-4.68
Intl. aviation bunkers	-	-	-5.36	-	-	-	-	-	-	-	-5.36
Stock changes	-	0.56	0.10	0.02	-	-	-	-	-	-	0.68
<b>TPES</b>	<b>115.62</b>	<b>184.73</b>	<b>17.43</b>	<b>85.95</b>	<b>75.11</b>	<b>6.38</b>	<b>3.45</b>	<b>6.22</b>	-	-	<b>494.90</b>
Electricity and Heat Output											
Elec. generated - TWh	288.60	19.53	75.49	294.35	288.23	74.18	9.20	21.75	-	-	1071.32
Heat generated - PJ	-	-	0.75	16.19	-	-	-	3.64	3.85	-	24.43

\* Includes crude oil, NGL, refinery feedstocks, additives and other hydrocarbons.

## Key indicators

	1960	1971	1980	1990	2000	2008	2009	2010e
Energy production (Mtoe)	47.0	35.8	43.3	75.2	105.8	88.7	93.8	95.1
Net imports (Mtoe)	35.6	253.0	318.8	377.7	429.0	418.6	384.5	409.2
Total primary energy supply (Mtoe)	80.8	267.5	344.5	439.3	519.0	495.6	472.0	494.9
Net oil imports (Mtoe)	29.5	219.8	251.7	263.3	270.0	224.4	205.7	210.9
Oil supply (Mtoe)	27.7	198.9	233.7	250.4	255.2	213.8	200.4	202.2
Electricity consumption (TWh)*	102.7	361.0	550.9	801.3	1011.6	1033.3	997.4	1029.3
GDP (billion 2000 USD)	630.9 e	1785.0	2638.2	4150.3	4667.5	5140.4	4872.2	5064.1
GDP PPP (billion 2000 USD)	439.4 e	1243.0	1837.1	2890.1	3250.3	3579.6	3392.9	3526.5
Population (millions)	93.66 e	104.98	117.06	123.61	126.93	127.51	127.33	126.91
Industrial production index (2005=100)	12.40	45.10	65.80	96.90	98.40	103.80	81.70	94.30
Total self-sufficiency**	0.5812	0.1338	0.1257	0.1712	0.2039	0.1790	0.1987	0.1921
Coal and peat self-sufficiency**	0.8586	0.4187	0.1831	0.0583	0.0159	-	-	-
Oil self-sufficiency**	0.0184	0.0043	0.0024	0.0028	0.0030	0.0036	0.0037	0.0034
Natural gas self-sufficiency**	1.0028	0.6474	0.0905	0.0434	0.0348	0.0425	0.0425	0.0374
TPES/GDP (toe per thousand 2000 USD)	0.1281 e	0.1499	0.1306	0.1059	0.1112	0.0964	0.0969	0.0977
TPES/GDP PPP (toe per thousand 2000 USD)	0.1840 e	0.2152	0.1875	0.1520	0.1597	0.1384	0.1391	0.1403
TPES/population (toe per capita)	0.8631 e	2.5483	2.9431	3.5540	4.0886	3.8864	3.7069	3.8996
Net oil imports/GDP (toe per thousand 2000 USD)	0.0467 e	0.1232	0.0954	0.0634	0.0579	0.0436	0.0422	0.0416
Oil supply/GDP (toe per thousand 2000 USD)	0.0438 e	0.1114	0.0886	0.0603	0.0547	0.0416	0.0411	0.0399
Oil supply/population (toe per capita)	0.2952 e	1.8941	1.9962	2.0258	2.0107	1.6769	1.5740	1.5930
Elect. cons./GDP (kWh per 2000 USD)	0.1628 e	0.2023	0.2088	0.1931	0.2167	0.2010	0.2047	0.2033
Elect. cons./population (kWh per capita)	1097 e	3439	4707	6482	7970	8103	7833	8110
Industry cons.***/industrial production (2005=100)	208.40	193.29	130.08	101.50	102.79	85.26	107.07	..
Industry oil cons.***/industrial production (2005=100)	126.84	255.46	143.87	101.44	107.46	79.42	108.60	..

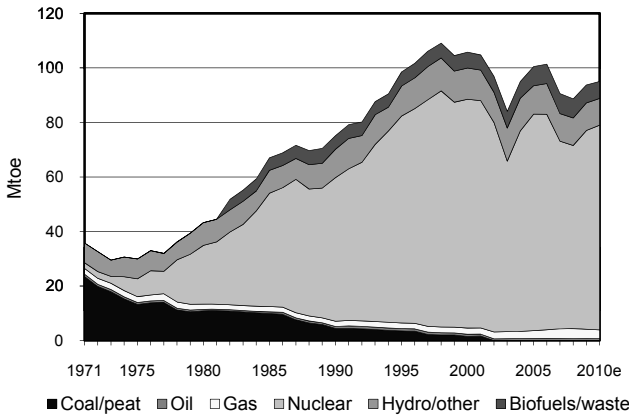
\* Electricity consumption equals domestic supply less losses.

\*\* Production divided by TPES.

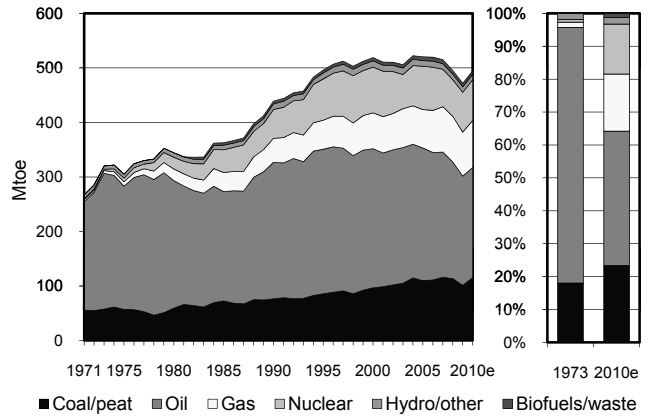
\*\*\* Includes non-energy use.

## Japan

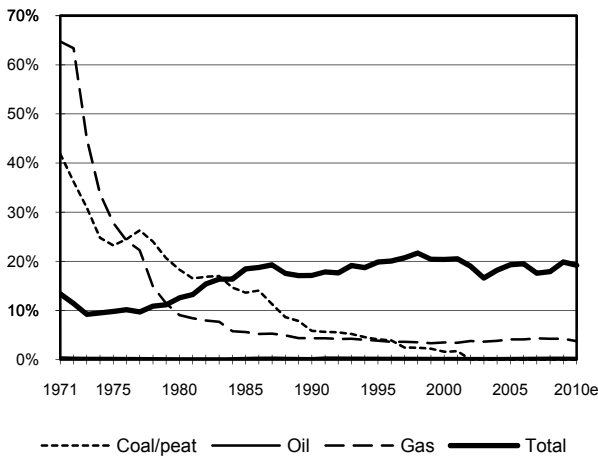
**Figure 1. Energy production**



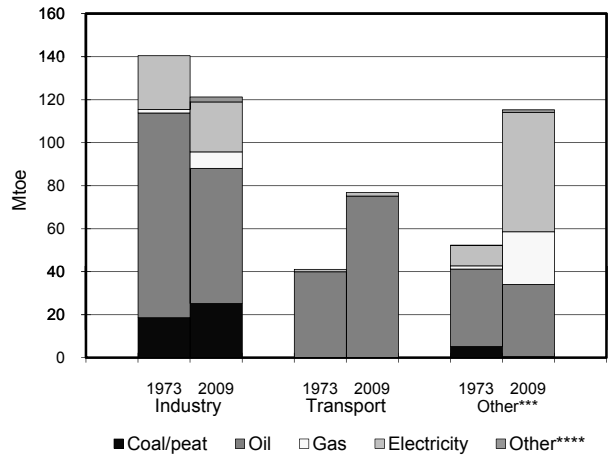
**Figure 2. Total primary energy supply\***



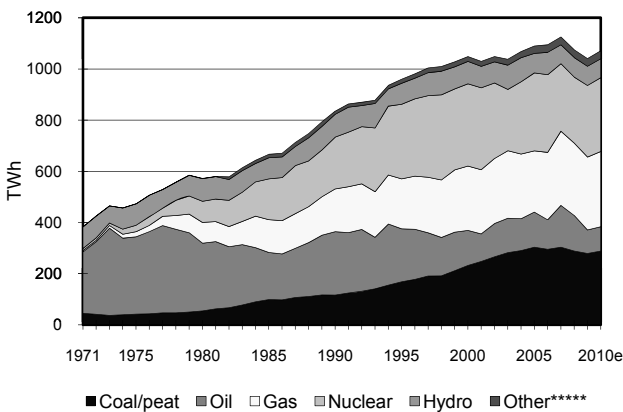
**Figure 3. Energy self-sufficiency**



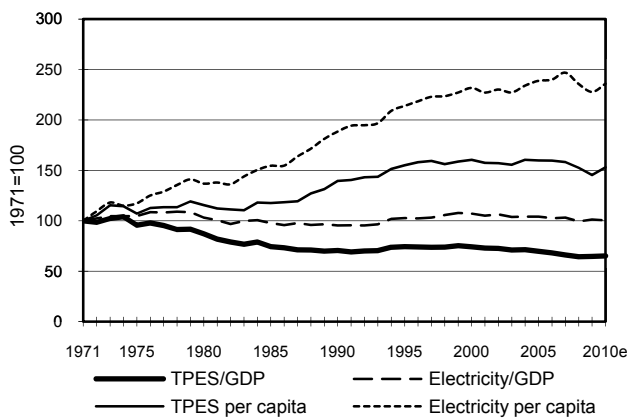
**Figure 4. Breakdown of sectorial final consumption by source in 1973 and 2009\*\***



**Figure 5. Electricity generation by fuel**



**Figure 6. Selected indicators**



\* Excluding electricity trade.

\*\* Includes non-energy use.

\*\*\* Includes residential, commercial and public services, agriculture/forestry, fishing and non-specified.

\*\*\*\* Includes biofuels and waste, direct use of geothermal/solar thermal and heat produced in CHP/heat plants.

\*\*\*\*\* Includes geothermal, solar, wind, biofuels and waste, etc.

## Korea : 2008

Million tonnes of oil equivalent

SUPPLY AND CONSUMPTION	Coal & peat	Crude oil*	Oil products	Natural gas	Nuclear	Hydro	Geotherm. solar etc.	Biofuels & waste	Electricity	Heat	Total
Production	1.28	0.54	-	0.19	39.34	0.26	0.11	2.97	-	0.04	44.73
Imports	61.51	118.86	26.34	33.34	-	-	-	0.03	-	-	240.07
Exports	-	-0.24	-44.71	-	-	-	-	-	-	-	-44.95
Intl. marine bunkers	-	-	-9.13	-	-	-	-	-	-	-	-9.13
Intl. aviation bunkers	-	-	-3.81	-	-	-	-	-	-	-	-3.81
Stock changes	-0.02	0.90	0.88	-1.72	-	-	-	-	-	-	0.04
<b>TPES</b>	<b>62.77</b>	<b>120.05</b>	<b>-30.43</b>	<b>31.81</b>	<b>39.34</b>	<b>0.26</b>	<b>0.11</b>	<b>3.00</b>	<b>-</b>	<b>0.04</b>	<b>226.95</b>
Transfers	-	-2.38	2.47	-	-	-	-	-	-	-	0.09
Statistical differences	0.20	-0.02	-0.41	0.05	-	-	-	-0.00	-0.11	0.00	-0.28
Electricity plants	-38.75	-	-2.42	-10.51	-39.34	-0.26	-0.06	-0.10	34.86	-0.01 e	-56.60
CHP plants	-4.34	-	-1.54	-3.72	-	-	-	-0.26	3.31	4.46 e	-2.09
Heat plants	-	-	-0.37	-0.06	-	-	-	-0.21	-	0.32 e	-0.32
Blast furnaces	-6.57 e	-	-	-	-	-	-	-	-	-	-6.57
Gas works	-	-	-0.22	0.20	-	-	-	-	-	-	-0.01
Coke/pat. fuel/BKB plants	-1.32	-	-	-	-	-	-	-	-	-	-1.32
Oil refineries	-	-125.19	123.62	-	-	-	-	-	-	-	-1.57
Petrochemical plants	-	7.57	-7.33	-	-	-	-	-	-	-	0.23
Liquefaction plants	-	-	-	-	-	-	-	-	-	-	-
Other transformation	-	-	-	-	-	-	-	-	-	-	-
Energy industry own use	-2.01	-0.03	-5.60	-0.20	-	-	-	-	-2.32	..	-10.16
Losses	-	-	-	-	-	-	-	-	-1.39	-0.08	-1.47
<b>TFC</b>	<b>9.98</b>	<b>-</b>	<b>77.77</b>	<b>17.58</b>	<b>-</b>	<b>-</b>	<b>0.04</b>	<b>2.43</b>	<b>34.37</b>	<b>4.72</b>	<b>146.89</b>
<b>INDUSTRY</b>	<b>8.49</b>	<b>-</b>	<b>6.46</b>	<b>5.47</b>	<b>-</b>	<b>-</b>	<b>0.00</b>	<b>1.89</b>	<b>17.23</b>	<b>2.99</b>	<b>42.53</b>
Iron and steel	3.98 e	-	0.42	1.32	-	-	-	0.11	3.81	-	9.65
Chemical and petrochem.	0.08	-	1.26	0.99	-	-	-	0.12	2.96	1.87	7.28
Non-ferrous metals	-	-	0.10	0.15	-	-	-	0.00	0.55	0.07	0.87
Non-metallic minerals	3.08	-	0.91	0.41	-	-	-	0.63	1.00	-	6.03
Transport equipment	-	-	0.23	0.52	-	-	-	-	1.53	-	2.28
Machinery	-	-	0.35	0.65	-	-	-	0.01	4.32	0.05	5.37
Mining and quarrying	-	-	0.05	-	-	-	-	-	0.12	-	0.17
Food and tobacco	0.02	-	0.33	0.42	-	-	-	0.02	0.67	0.13	1.59
Paper, pulp and printing	0.02	-	0.58	0.17	-	-	-	0.27	0.86	0.31	2.21
Wood and wood products	-	-	0.03	0.04	-	-	-	0.06	0.14	-	0.27
Construction	-	-	0.75	0.00	-	-	-	-	-	-	0.75
Textile and leather	0.11	-	0.51	0.40	-	-	-	0.01	1.07	0.57	2.66
Non-specified	1.19	-	0.95	0.41	-	-	0.00	0.66	0.20	-	3.40
<b>TRANSPORT</b>	<b>-</b>	<b>-</b>	<b>27.78</b>	<b>0.71</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.15</b>	<b>0.19</b>	<b>-</b>	<b>28.83</b>
Domestic aviation	-	-	0.28	-	-	-	-	-	-	-	0.28
Road	-	-	26.31	0.71	-	-	-	0.15	-	-	27.18
Rail	-	-	0.21	-	-	-	-	-	0.19	-	0.41
Pipeline transport	-	-	0.00	-	-	-	-	-	-	-	0.00
Domestic navigation	-	-	0.87	-	-	-	-	-	-	-	0.87
Non-specified	-	-	0.10	-	-	-	-	-	-	-	0.10
<b>OTHER</b>	<b>1.05</b>	<b>-</b>	<b>9.20</b>	<b>11.39</b>	<b>-</b>	<b>-</b>	<b>0.04</b>	<b>0.39</b>	<b>16.95</b>	<b>1.73</b>	<b>40.75</b>
Residential	1.05	-	3.15	8.23	-	-	0.02	0.03	4.84	1.47	18.79
Comm. and public services	-	-	3.31	3.15	-	-	0.02	0.36	11.39	0.26	18.49
Agriculture/forestry	-	-	1.13	0.01	-	-	-	-	0.56	-	1.70
Fishing	-	-	0.75	-	-	-	-	-	0.16	-	0.91
Non-specified	-	-	0.85	-	-	-	-	-	-	-	0.85
<b>NON-ENERGY USE</b>	<b>0.44</b>	<b>-</b>	<b>34.33</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>34.77</b>
in industry/transf./energy	0.44	-	33.68	-	-	-	-	-	-	-	34.12
<i>of which: feedstocks</i>	0.44	-	32.47	-	-	-	-	-	-	-	32.92
in transport	-	-	0.58	-	-	-	-	-	-	-	0.58
in other	-	-	0.07	-	-	-	-	-	-	-	0.07
<b>Electricity and Heat Output</b>											
<b>Elec. generated - TWh</b>	<b>191.76</b>	<b>-</b>	<b>15.35</b>	<b>81.33</b>	<b>150.96</b>	<b>3.07</b>	<b>0.74</b>	<b>0.67</b>	<b>-</b>	<b>0.06</b>	<b>443.94</b>
Electricity plants	173.96	-	11.58	64.56	150.96	3.07	0.74	0.47	-	0.04	405.38
CHP plants	17.80	-	3.78	16.78	-	-	-	0.19	-	0.02	38.56
<b>Heat generated - PJ</b>	<b>42.01</b>	<b>-</b>	<b>86.93</b>	<b>57.13</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>13.83</b>	<b>-</b>	<b>1.76</b>	<b>201.65</b>
CHP plants	42.01	-	84.82	54.64	-	-	-	5.22	-	1.33 e	188.01
Heat plants	-	-	2.11	2.49	-	-	-	8.61	-	0.44 e	13.64

\* Includes crude oil, NGL, refinery feedstocks, additives and other hydrocarbons.

## Korea : 2009

Million tonnes of oil equivalent											
SUPPLY AND CONSUMPTION	Coal & peat	Crude oil*	Oil products	Natural gas	Nuclear	Hydro	Geotherm. solar etc.	Biofuels & waste	Electricity	Heat	Total
Production	1.16	0.69	-	0.45	38.51	0.24	0.17	3.02	-	0.07	44.31
Imports	62.92	117.64	31.64	30.20	-	-	-	0.02	-	-	242.42
Exports	-	-0.32	-44.00	-	-	-	-	-	-	-	-44.33
Intl. marine bunkers	-	-	-8.40	-	-	-	-	-	-	-	-8.40
Intl. aviation bunkers	-	-	-3.69	-	-	-	-	-	-	-	-3.69
Stock changes	0.76	-2.99	0.04	1.05	-	-	-	-	-	-	-1.14
<b>TPES</b>	<b>64.84</b>	<b>115.01</b>	<b>-24.42</b>	<b>31.70</b>	<b>38.51</b>	<b>0.24</b>	<b>0.17</b>	<b>3.04</b>	<b>-</b>	<b>0.07</b>	<b>229.18</b>
Transfers	-	-2.57	2.65	-	-	-	-	-	-	-	0.08
Statistical differences	2.33	1.46	-0.44	-1.10	-	-	-	0.01	0.02	0.02	2.29
Electricity plants	-45.48	-	-3.25	-9.00	-38.51	-0.24	-0.12	-0.11	35.83	-0.02 e	-60.90
CHP plants	-4.27	-	-1.39	-3.31	-	-	-	-0.23	3.01	4.05 e	-2.13
Heat plants	-	-	-0.37	-0.08	-	-	-	-0.27	-	0.43	-0.30
Blast furnaces	-5.85 e	-	-	-	-	-	-	-	-	-	-5.85
Gas works	-	-	-0.24	0.22	-	-	-	-	-	-	-0.02
Coke/pat. fuel/BKB plants	-1.55	-	-	-	-	-	-	-	-	-	-1.55
Oil refineries	-	-121.65	120.04	-	-	-	-	-	-	-	-1.60
Petrochemical plants	-	7.77	-7.55	-	-	-	-	-	-	-	0.22
Liquefaction plants	-	-	-	-	-	-	-	-	-	-	-
Other transformation	-	-	-	-	-	-	-	-	-	-	-
Energy industry own use	-1.85	-0.02	-5.32	-0.32	-	-	-	-	-2.53	..	-10.04
Losses	-	-	-	-	-	-	-	-	-1.44	-0.12	-1.56
<b>TFC</b>	<b>8.18</b>	<b>-</b>	<b>79.70</b>	<b>18.12</b>	<b>-</b>	<b>-</b>	<b>0.05</b>	<b>2.44</b>	<b>34.89</b>	<b>4.44</b>	<b>147.82</b>
<b>INDUSTRY</b>	<b>6.91</b>	<b>-</b>	<b>5.83</b>	<b>5.63</b>	<b>-</b>	<b>-</b>	<b>0.00</b>	<b>1.74</b>	<b>17.14</b>	<b>2.70</b>	<b>39.96</b>
Iron and steel	3.46 e	-	0.26	1.37	-	-	-	0.11	4.22	0.01	9.44
Chemical and petrochem.	0.01	-	1.17	1.05	-	-	-	0.13	3.02	1.49	6.87
Non-ferrous metals	-	-	0.08	0.18	-	-	-	0.02	0.02	0.08	0.38
Non-metallic minerals	2.62	-	0.83	0.44	-	-	-	0.59	0.98	-	5.46
Transport equipment	-	-	0.20	0.49	-	-	-	-	1.47	-	2.17
Machinery	-	-	0.28	0.54	-	-	-	0.02	4.37	0.04	5.24
Mining and quarrying	-	-	0.06	-	-	-	-	-	0.12	-	0.17
Food and tobacco	0.02	-	0.31	0.45	-	-	-	0.00	0.70	0.20	1.69
Paper, pulp and printing	0.02	-	0.48	0.21	-	-	-	0.33	0.86	0.16	2.06
Wood and wood products	-	-	0.03	0.06	-	-	-	0.04	0.14	0.02	0.28
Construction	-	-	0.76	0.00	-	-	-	-	-	-	0.76
Textile and leather	0.12	-	0.42	0.39	-	-	-	0.01	1.05	0.70	2.67
Non-specified	0.65	-	0.98	0.45	-	-	0.00	0.50	0.19	-	2.78
<b>TRANSPORT</b>	<b>-</b>	<b>-</b>	<b>27.97</b>	<b>0.90</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.22</b>	<b>0.19</b>	<b>-</b>	<b>29.28</b>
Domestic aviation	-	-	0.27	-	-	-	-	-	-	-	0.27
Road	-	-	26.60	0.90	-	-	-	0.22	-	-	27.72
Rail	-	-	0.19	-	-	-	-	-	0.19	-	0.38
Pipeline transport	-	-	0.00	-	-	-	-	-	-	-	0.00
Domestic navigation	-	-	0.82	-	-	-	-	-	-	-	0.82
Non-specified	-	-	0.09	-	-	-	-	-	-	-	0.09
<b>OTHER</b>	<b>0.89</b>	<b>-</b>	<b>9.26</b>	<b>11.59</b>	<b>-</b>	<b>-</b>	<b>0.05</b>	<b>0.48</b>	<b>17.56</b>	<b>1.73</b>	<b>41.57</b>
Residential	0.89	-	2.93	8.26	-	-	0.02	0.02	4.96	1.54	18.64
Comm. and public services	-	-	3.40	3.32	-	-	0.03	0.46	11.81	0.19	19.21
Agriculture/forestry	-	-	1.14	0.00	-	-	-	-	0.63	-	1.77
Fishing	-	-	0.85	-	-	-	-	-	0.16	-	1.01
Non-specified	-	-	0.94	-	-	-	-	-	-	-	0.94
<b>NON-ENERGY USE</b>	<b>0.38</b>	<b>-</b>	<b>36.63</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>37.01</b>
in industry/transf./energy	0.38	-	35.97	-	-	-	-	-	-	-	36.35
<i>of which: feedstocks</i>	0.38	-	34.47	-	-	-	-	-	-	-	34.85
in transport	-	-	0.63	-	-	-	-	-	-	-	0.63
in other	-	-	0.03	-	-	-	-	-	-	-	0.03
<b>Electricity and Heat Output</b>											
<b>Elec. generated - TWh</b>	<b>208.86</b>	<b>-</b>	<b>19.81</b>	<b>70.28</b>	<b>147.77</b>	<b>2.81</b>	<b>1.34</b>	<b>0.72</b>	<b>-</b>	<b>0.08</b>	<b>451.68</b>
Electricity plants	193.63	-	15.07	55.45	147.77	2.81	1.34	0.50	-	-	416.56
CHP plants	15.24	-	4.75	14.83	-	-	-	0.21	-	0.08	35.11
<b>Heat generated - PJ</b>	<b>51.18</b>	<b>-</b>	<b>67.29</b>	<b>54.16</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>14.98</b>	<b>-</b>	<b>2.96</b>	<b>190.57</b>
CHP plants	51.18	-	63.46	51.12	-	-	-	3.85	-	2.96 e	172.57
Heat plants	-	-	3.83	3.04	-	-	-	11.13	-	-	18.00

\* Includes crude oil, NGL, refinery feedstocks, additives and other hydrocarbons.

## Korea

## Estimated energy supply balance for 2010

Million tonnes of oil equivalent											
SUPPLY	Coal & peat	Crude oil*	Oil products	Natural gas	Nuclear	Hydro	Geotherm. solar etc.	Biofuels & waste	Electricity	Heat	Total
Production	0.96	0.70	-	0.41	38.73	0.32	0.23	3.21	-	0.07	44.62
Imports	72.91	120.41	32.88	38.14	-	-	-	0.02	-	-	264.36
Exports	-	-0.48	-45.25	-	-	-	-	-	-	-	-45.74
Intl. marine bunkers	-	-	-8.90	-	-	-	-	-	-	-	-8.90
Intl. aviation bunkers	-	-	-3.87	-	-	-	-	-	-	-	-3.87
Stock changes	-1.49	-0.79	-0.58	-1.09	-	-	-	0.00	-	-	-3.95
<b>TPES</b>	<b>72.38</b>	<b>119.83</b>	<b>-25.72</b>	<b>37.45</b>	<b>38.73</b>	<b>0.32</b>	<b>0.23</b>	<b>3.23</b>	<b>-</b>	<b>0.07</b>	<b>246.52</b>
Electricity and Heat Output											
Elec. generated - TWh	210.82	-	15.35	96.79	148.60	3.68	1.97	0.75	-	0.08	478.04
Heat generated - PJ	51.18	-	67.29	54.16	-	-	-	14.98	-	2.96	190.57

\* Includes crude oil, NGL, refinery feedstocks, additives and other hydrocarbons.

## Key indicators

	1960	1971	1980	1990	2000	2008	2009	2010e
Energy production (Mtoe)	..	6.4	9.3	22.6	34.4	44.7	44.3	44.6
Net imports (Mtoe)	..	10.6	30.8	70.2	165.7	195.1	198.1	218.6
Total primary energy supply (Mtoe)	..	17.0	41.2	93.1	188.1	227.0	229.2	246.5
Net oil imports (Mtoe)	..	10.7	27.3	51.7	109.5	100.2	105.0	107.6
Oil supply (Mtoe)	..	10.6	26.7	49.7	99.0	89.6	90.6	94.1
Electricity consumption (TWh)*	..	9.7	34.8 e	101.7	277.7	430.3	437.7	464.1
GDP (billion 2000 USD)	21.6 e	52.5	112.0	283.3	533.4	751.4	752.8	799.2
GDP PPP (billion 2000 USD)	32.7 e	79.5	169.8	429.4	808.4	1138.8	1141.0	1211.3
Population (millions)	25.01 e	32.88	38.12	42.87	47.01	48.61	48.75	48.80
Industrial production index (2005=100)	..	..	10.53	31.70	74.30	119.80	119.70	139.10
Total self-sufficiency**	..	0.3758	0.2250	0.2430	0.1828	0.1971	0.1934	0.1810
Coal and peat self-sufficiency**	..	0.9990	0.6077	0.2964	0.0852	0.0203	0.0179	0.0132
Oil self-sufficiency**	..	..	-	-	0.0068	0.0060	0.0076	0.0074
Natural gas self-sufficiency**	..	..	-	-	-	0.0061	0.0141	0.0109
TPES/GDP (toe per thousand 2000 USD)	..	0.3236	0.3678	0.3285	0.3526	0.3020	0.3044	0.3084
TPES/GDP PPP (toe per thousand 2000 USD)	..	0.2135	0.2427	0.2168	0.2327	0.1993	0.2009	0.2035
TPES/population (toe per capita)	..	0.5161	1.0810	2.1714	4.0009	4.6690	4.7014	5.0517
Net oil imports/GDP (toe per thousand 2000 USD)	..	0.2046	0.2435	0.1825	0.2053	0.1334	0.1394	0.1346
Oil supply/GDP (toe per thousand 2000 USD)	..	0.2018	0.2379	0.1755	0.1857	0.1193	0.1203	0.1178
Oil supply/population (toe per capita)	..	0.3220	0.6990	1.1601	2.1069	1.8438	1.8585	1.9285
Elect. cons./GDP (kWh per 2000 USD)	..	0.1853	0.3109 e	0.3591	0.5206	0.5727	0.5815	0.5806
Elect. cons./population (kWh per capita)	..	296	914 e	2373	5907	8853	8980	9510
Industry cons.***/industrial production (2005=100)	..	..	185.57	119.81	123.88	93.51	93.16	..
Industry oil cons.***/industrial production (2005=100)	..	..	254.07	147.58	126.92	89.03	92.78	..

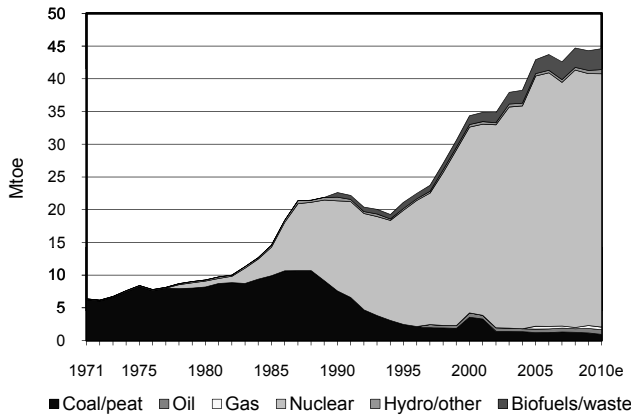
\* Electricity consumption equals domestic supply less losses.

\*\* Production divided by TPES.

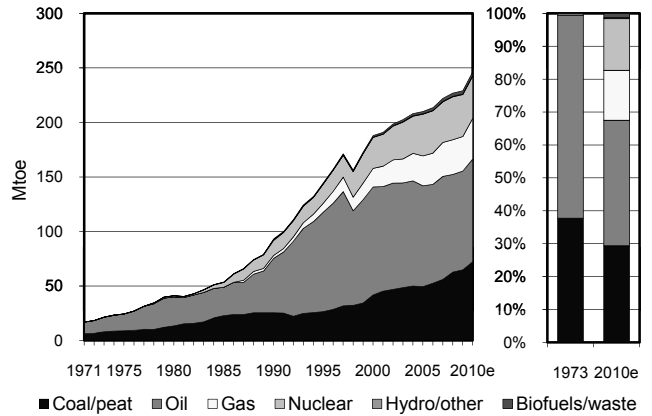
\*\*\* Includes non-energy use.

**Korea**

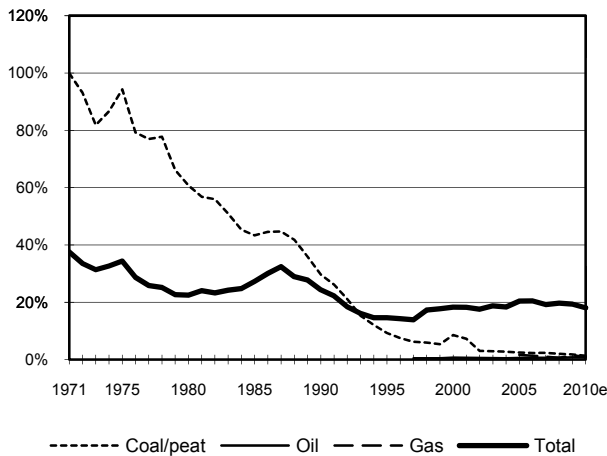
**Figure 1. Energy production**



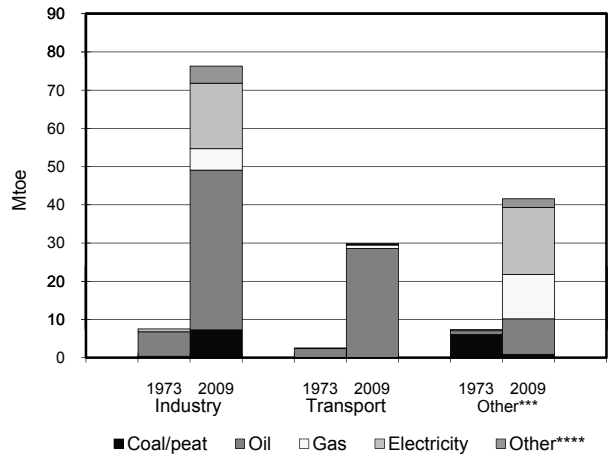
**Figure 2. Total primary energy supply\***



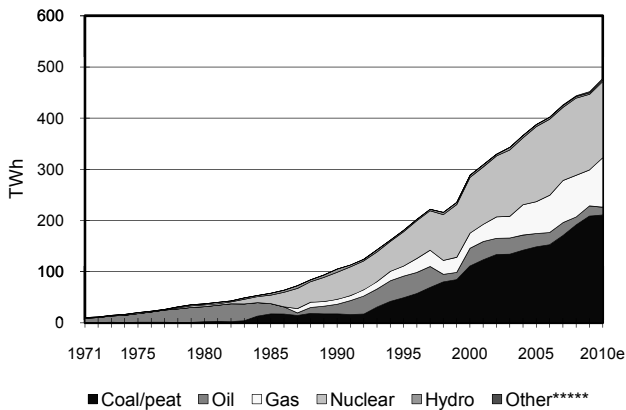
**Figure 3. Energy self-sufficiency**



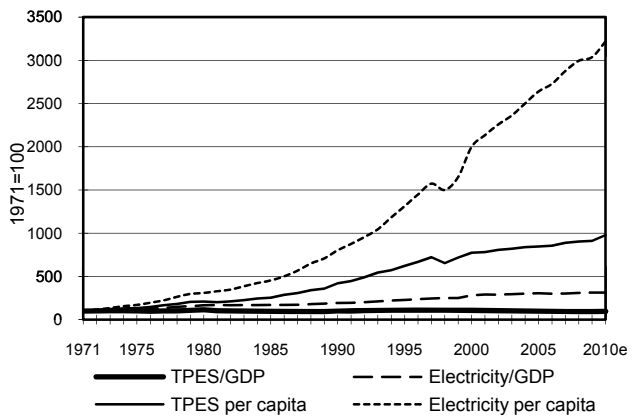
**Figure 4. Breakdown of sectorial final consumption by source in 1973 and 2009\*\***



**Figure 5. Electricity generation by fuel**



**Figure 6. Selected indicators**



\* Excluding electricity trade.  
 \*\* Includes non-energy use.  
 \*\*\* Includes residential, commercial and public services, agriculture/forestry, fishing and non-specified.  
 \*\*\*\* Includes biofuels and waste, direct use of geothermal/solar thermal and heat produced in CHP/heat plants.  
 \*\*\*\*\* Includes geothermal, solar, wind, biofuels and waste, etc.

## Luxembourg : 2008

Million tonnes of oil equivalent											
SUPPLY AND CONSUMPTION	Coal & peat	Crude oil*	Oil products	Natural gas	Nuclear	Hydro	Geotherm. solar etc.	Biofuels & waste	Electricity	Heat	Total
Production	-	-	-	-	-	0.01	0.01	0.08	-	-	0.10
Imports	0.08	-	2.95	1.09	-	-	-	0.04	0.59	-	4.75
Exports	-	-	-0.01	-	-	-	-	-	-0.21	-	-0.23
Intl. marine bunkers	-	-	-	-	-	-	-	-	-	-	-
Intl. aviation bunkers	-	-	-0.44	-	-	-	-	-	-	-	-0.44
Stock changes	-	-	-0.01	-	-	-	-	-	-	-	-0.01
<b>TPES</b>	<b>0.08</b>	-	<b>2.50</b>	<b>1.09</b>	-	<b>0.01</b>	<b>0.01</b>	<b>0.12</b>	<b>0.37</b>	-	<b>4.19</b>
Transfers	-	-	-	-	-	-	-	-	-	-	-
Statistical differences	-	-	0.00	-	-	-	-	-	-0.00	-	0.00
Electricity plants	-	-	-	-0.32	-	-0.01	-0.01	-0.03	0.20	-	-0.17
CHP plants	-	-	-	-0.10	-	-	-	-0.01	0.04	0.01	-0.07
Heat plants	-	-	-	-	-	-	-	-0.00	-	0.00	-0.00
Blast furnaces	-	-	-	-	-	-	-	-	-	-	-
Gas works	-	-	-	-	-	-	-	-	-	-	-
Coke/pat. fuel/BKB plants	-	-	-	-	-	-	-	-	-	-	-
Oil refineries	-	-	-	-	-	-	-	-	-	-	-
Petrochemical plants	-	-	-	-	-	-	-	-	-	-	-
Liquefaction plants	-	-	-	-	-	-	-	-	-	-	-
Other transformation	-	-	-	-	-	-	-	-	-	-	-
Energy industry own use	-	-	-	-	-	-	-	-	-0.03	-	-0.03
Losses	-	-	-	-	-	-	-	-	-0.01	-	-0.01
<b>TFC</b>	<b>0.08</b>	-	<b>2.50</b>	<b>0.67</b>	-	-	<b>0.00</b>	<b>0.08</b>	<b>0.57</b>	<b>0.01</b>	<b>3.90</b>
<b>INDUSTRY</b>	<b>0.08</b>	-	<b>0.01</b>	<b>0.32</b>	-	-	-	<b>0.02</b>	<b>0.30</b>	-	<b>0.74</b>
Iron and steel	0.03	-	0.00	0.21	-	-	-	-	0.21	-	0.45
Chemical and petrochem.	-	-	0.00	0.01	-	-	-	-	0.02	-	0.04
Non-ferrous metals	-	-	-	c	-	-	-	-	-	-	-
Non-metallic minerals	0.05	-	-	0.07	-	-	-	-	0.01	-	0.13
Transport equipment	-	-	-	0.00	-	-	-	-	0.00	-	0.00
Machinery	-	-	-	0.00	-	-	-	-	0.00	-	0.01
Mining and quarrying	-	-	-	0.00	-	-	-	-	0.00	-	0.00
Food and tobacco	-	-	0.00	0.00	-	-	-	-	0.01	-	0.01
Paper, pulp and printing	-	-	-	0.00	-	-	-	-	0.01	-	0.01
Wood and wood products	-	-	-	0.00	-	-	-	0.02	0.00	-	0.02
Construction	0.00	-	0.00	0.00	-	-	-	-	0.02	-	0.02
Textile and leather	-	-	-	0.02	-	-	-	-	0.01	-	0.03
Non-specified	-	-	0.00	0.00	-	-	-	-	0.01	-	0.01
<b>TRANSPORT</b>	-	-	<b>2.20</b>	-	-	-	-	<b>0.04</b>	<b>0.01</b>	-	<b>2.25</b>
Domestic aviation	-	-	-	-	-	-	-	-	-	-	-
Road	-	-	2.19	-	-	-	-	0.04	-	-	2.23
Rail	-	-	0.01	-	-	-	-	-	0.01	-	0.01
Pipeline transport	-	-	-	-	-	-	-	-	-	-	-
Domestic navigation	-	-	0.00	-	-	-	-	-	-	-	0.00
Non-specified	-	-	-	-	-	-	-	-	-	-	-
<b>OTHER</b>	<b>0.00</b>	-	<b>0.27</b>	<b>0.36</b>	-	-	<b>0.00</b>	<b>0.02</b>	<b>0.26</b>	<b>0.01</b>	<b>0.91</b>
Residential	0.00	-	0.24	0.17	-	-	0.00	0.02	0.07	-	0.51
Comm. and public services	-	-	0.01	0.18	-	-	-	-	0.18	0.00	0.38
Agriculture/forestry	-	-	0.02	0.00	-	-	-	-	0.00	0.01	0.03
Fishing	-	-	-	-	-	-	-	-	-	-	-
Non-specified	-	-	-	-	-	-	-	-	-	-	-
<b>NON-ENERGY USE</b>	-	-	<b>0.01</b>	-	-	-	-	-	-	-	<b>0.01</b>
in industry/transf./energy	-	-	0.01	-	-	-	-	-	-	-	0.01
of which: feedstocks	-	-	-	-	-	-	-	-	-	-	-
in transport	-	-	0.00	-	-	-	-	-	-	-	0.00
in other	-	-	-	-	-	-	-	-	-	-	-
<b>Electricity and Heat Output</b>											
<b>Elec. generated - TWh</b>	-	-	-	<b>2.40</b>	-	<b>0.13</b>	<b>0.08</b>	<b>0.11</b>	-	-	<b>2.73</b>
Electricity plants	-	-	-	2.02	-	0.13	0.08	0.07	-	-	2.30
CHP plants	-	-	-	0.38	-	-	-	0.04	-	-	0.42
<b>Heat generated - PJ</b>	-	-	-	-	-	-	-	<b>0.24</b>	-	-	<b>0.24</b>
CHP plants	-	-	-	-	-	-	-	0.21	-	-	0.21
Heat plants	-	-	-	-	-	-	-	0.03	-	-	0.03

\* Includes crude oil, NGL, refinery feedstocks, additives and other hydrocarbons.

## Luxembourg : 2009

Million tonnes of oil equivalent											
<b>SUPPLY AND CONSUMPTION</b>	Coal & peat	Crude oil*	Oil products	Natural gas	Nuclear	Hydro	Geotherm. solar etc.	Biofuels & waste	Electricity	Heat	Total
Production	-	-	-	-	-	0.01	0.01	0.09	-	-	0.11
Imports	0.08	-	2.75	1.11	-	-	-	0.04	0.52	-	4.50
Exports	-	-	-0.01	-	-	-	-	-	-0.22	-	-0.23
Intl. marine bunkers	-	-	-	-	-	-	-	-	-	-	-
Intl. aviation bunkers	-	-	-0.42	-	-	-	-	-	-	-	-0.42
Stock changes	-	-	-0.00	-	-	-	-	-	-	-	-0.00
<b>TPES</b>	<b>0.08</b>	-	<b>2.32</b>	<b>1.11</b>	-	<b>0.01</b>	<b>0.01</b>	<b>0.13</b>	<b>0.29</b>	-	<b>3.95</b>
Transfers	-	-	-	-	-	-	-	-	-	-	-
Statistical differences	-	-	-0.01	-	-	-	-	-	-	-	-0.01
Electricity plants	-	-	-	-0.40	-	-0.01	-0.01	-0.04	0.24	-	-0.22
CHP plants	-	-	-0.00	-0.08	-	-	-	-0.01	0.03	0.01	-0.06
Heat plants	-	-	-	-	-	-	-	-0.00	-	0.00	-0.00
Blast furnaces	-	-	-	-	-	-	-	-	-	-	-
Gas works	-	-	-	-	-	-	-	-	-	-	-
Coke/pat. fuel/BKB plants	-	-	-	-	-	-	-	-	-	-	-
Oil refineries	-	-	-	-	-	-	-	-	-	-	-
Petrochemical plants	-	-	-	-	-	-	-	-	-	-	-
Liquefaction plants	-	-	-	-	-	-	-	-	-	-	-
Other transformation	-	-	-	-	-	-	-	-	-	-	-
Energy industry own use	-	-	-	-	-	-	-	-	-0.03	-	-0.03
Losses	-	-	-	-	-	-	-	-	-0.01	-	-0.01
<b>TFC</b>	<b>0.08</b>	-	<b>2.31</b>	<b>0.63</b>	-	-	<b>0.00</b>	<b>0.07</b>	<b>0.53</b>	<b>0.01</b>	<b>3.63</b>
<b>INDUSTRY</b>	<b>0.08</b>	-	<b>0.00</b>	<b>0.24</b>	-	-	-	<b>0.02</b>	<b>0.27</b>	-	<b>0.61</b>
Iron and steel	0.02	-	-	0.14	-	-	-	-	0.18	-	0.34
Chemical and petrochem.	-	-	-	0.01	-	-	-	-	0.02	-	0.03
Non-ferrous metals	-	-	-	c	-	-	-	-	-	-	-
Non-metallic minerals	0.05	-	-	0.05	-	-	-	-	0.01	-	0.12
Transport equipment	-	-	-	0.00	-	-	-	-	0.00	-	0.00
Machinery	-	-	-	0.00	-	-	-	-	0.00	-	0.01
Mining and quarrying	-	-	-	0.00	-	-	-	-	0.00	-	0.00
Food and tobacco	-	-	-	0.00	-	-	-	-	0.01	-	0.02
Paper, pulp and printing	-	-	-	0.01	-	-	-	-	0.01	-	0.01
Wood and wood products	-	-	-	0.00	-	-	-	0.02	0.00	-	0.02
Construction	0.00	-	-	0.00	-	-	-	-	0.01	-	0.02
Textile and leather	-	-	-	0.01	-	-	-	-	0.01	-	0.02
Non-specified	-	-	0.00	0.00	-	-	-	-	0.01	-	0.02
<b>TRANSPORT</b>	-	-	<b>2.01</b>	-	-	-	-	<b>0.04</b>	<b>0.01</b>	-	<b>2.06</b>
Domestic aviation	-	-	-	-	-	-	-	-	-	-	-
Road	-	-	2.01	-	-	-	-	0.04	-	-	2.05
Rail	-	-	0.01	-	-	-	-	-	0.01	-	0.02
Pipeline transport	-	-	-	-	-	-	-	-	-	-	-
Domestic navigation	-	-	-	-	-	-	-	-	-	-	-
Non-specified	-	-	-	-	-	-	-	-	-	-	-
<b>OTHER</b>	<b>0.00</b>	-	<b>0.28</b>	<b>0.39</b>	-	-	<b>0.00</b>	<b>0.02</b>	<b>0.24</b>	<b>0.01</b>	<b>0.94</b>
Residential	0.00	-	0.25	0.20	-	-	0.00	0.02	0.07	-	0.54
Comm. and public services	-	-	0.01	0.19	-	-	-	-	0.17	0.00	0.36
Agriculture/forestry	-	-	0.02	0.00	-	-	-	-	0.00	0.01	0.03
Fishing	-	-	-	-	-	-	-	-	-	-	-
Non-specified	-	-	0.00	-	-	-	-	-	-	-	0.00
<b>NON-ENERGY USE</b>	-	-	<b>0.01</b>	-	-	-	-	-	-	-	<b>0.01</b>
in industry/transf./energy	-	-	0.01	-	-	-	-	-	-	-	0.01
of which: feedstocks	-	-	-	-	-	-	-	-	-	-	-
in transport	-	-	-	-	-	-	-	-	-	-	-
in other	-	-	-	-	-	-	-	-	-	-	-
<b>Electricity and Heat Output</b>											
<b>Elec. generated - TWh</b>	-	-	-	<b>2.84</b>	-	<b>0.11</b>	<b>0.08</b>	<b>0.12</b>	-	-	<b>3.15</b>
Electricity plants	-	-	-	2.51	-	0.11	0.08	0.07	-	-	2.76
CHP plants	-	-	-	0.34	-	-	-	0.05	-	-	0.39
<b>Heat generated - PJ</b>	-	-	-	-	-	-	-	<b>0.29</b>	-	-	<b>0.29</b>
CHP plants	-	-	-	-	-	-	-	0.26	-	-	0.26
Heat plants	-	-	-	-	-	-	-	0.03	-	-	0.03

\* Includes crude oil, NGL, refinery feedstocks, additives and other hydrocarbons.



## Luxembourg

## Estimated energy supply balance for 2010

Million tonnes of oil equivalent											
SUPPLY	Coal & peat	Crude oil*	Oil products	Natural gas	Nuclear	Hydro	Geotherm. solar etc.	Biofuels & waste	Electricity	Heat	Total
Production	-	-	-	-	-	0.01	0.01	0.09	-	-	0.10
Imports	0.08	-	2.89	1.20	-	-	-	0.04	0.63	-	4.82
Exports	-	-	-0.00	-	-	-	-	-	-0.28	-	-0.28
Intl. marine bunkers	-	-	-	-	-	-	-	-	-	-	-
Intl. aviation bunkers	-	-	-0.46	-	-	-	-	-	-	-	-0.46
Stock changes	-	-	0.02	-	-	-	-	-	-	-	0.02
<b>TPES</b>	<b>0.08</b>	<b>-</b>	<b>2.44</b>	<b>1.20</b>	<b>-</b>	<b>0.01</b>	<b>0.01</b>	<b>0.13</b>	<b>0.35</b>	<b>-</b>	<b>4.20</b>
Electricity and Heat Output											
Elec. generated - TWh	-	-	-	2.92	-	0.11	0.08	0.13	-	-	3.23
Heat generated - PJ	-	-	-	-	-	-	-	0.30	-	-	0.30

\* Includes crude oil, NGL, refinery feedstocks, additives and other hydrocarbons.

## Key indicators

	1960	1971	1980	1990	2000	2008	2009	2010e
Energy production (Mtoe)	-	-	0.0	0.0	0.1	0.1	0.1	0.1
Net imports (Mtoe)	3.3	4.1	3.6	3.5	3.6	4.5	4.3	4.5
Total primary energy supply (Mtoe)	3.3	4.1	3.6	3.4	3.3	4.2	4.0	4.2
Net oil imports (Mtoe)	0.2	1.4	1.1	1.6	2.3	2.9	2.7	2.9
Oil supply (Mtoe)	0.2	1.4	1.0	1.5	2.0	2.5	2.3	2.4
Electricity consumption (TWh)*	1.4	4.1	3.9	5.2	6.4	7.8	7.2	8.5
GDP (billion 2000 USD)	4.2 e	6.1	7.7	12.4	20.3	27.5	26.5	27.4
GDP PPP (billion 2000 USD)	4.8 e	7.0	8.8	14.3	23.4	31.7	30.6	31.6
Population (millions)	0.31 e	0.34	0.36	0.38	0.44	0.49	0.50	0.51
Industrial production index (2005=100)	36.40	45.80	46.40	66.50	83.70	96.30	80.50	89.50
Total self-sufficiency**	0.0005	0.0012	0.0083	0.0084	0.0175	0.0242	0.0269	0.0247
Coal and peat self-sufficiency**	..	..	-	-	-	-	-	-
Oil self-sufficiency**	..	..	-	-	-	-	-	-
Natural gas self-sufficiency**	..	..	-	-	-	-	-	-
TPES/GDP (toe per thousand 2000 USD)	0.7880 e	0.6678	0.4653	0.2750	0.1619	0.1524	0.1493	0.1535
TPES/GDP PPP (toe per thousand 2000 USD)	0.6825 e	0.5783	0.4030	0.2382	0.1402	0.1320	0.1293	0.1330
TPES/population (toe per capita)	10.5224 e	11.8777	9.7787	8.9284	7.5250	8.5759	7.9466	8.3099
Net oil imports/GDP (toe per thousand 2000 USD)	0.0548 e	0.2312	0.1443	0.1310	0.1155	0.1071	0.1036	0.1053
Oil supply/GDP (toe per thousand 2000 USD)	0.0540 e	0.2254	0.1356	0.1195	0.0973	0.0909	0.0877	0.0891
Oil supply/population (toe per capita)	0.7210 e	4.0097	2.8498	3.8791	4.5229	5.1150	4.6677	4.8210
Elect. cons./GDP (kWh per 2000 USD)	0.3406 e	0.6683	0.5134	0.4209	0.3165	0.2837	0.2714	0.3119
Elect. cons./population (kWh per capita)	4548 e	11886	10789	13662	14713	15959	14447	16879
Industry cons.***/industrial production (2005=100)	463.77	533.59	484.17	272.51	117.43	103.98	104.08	..
Industry oil cons.***/industrial production (2005=100)	332.67	3422.01	976.82	975.17	147.00	48.60	50.28	..

\* Electricity consumption equals domestic supply less losses.

\*\* Production divided by TPES.

\*\*\* Includes non-energy use.

## Luxembourg

Figure 1. Energy production

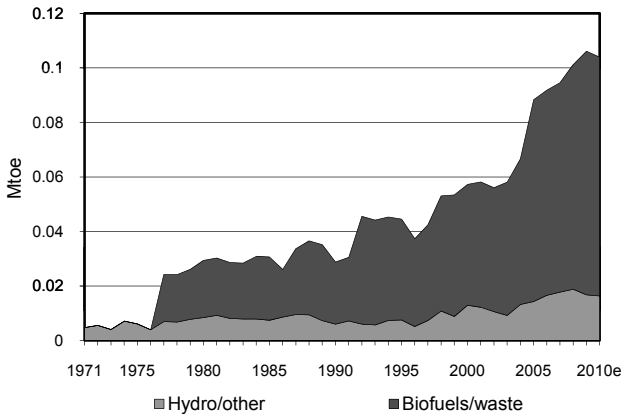


Figure 2. Total primary energy supply\*

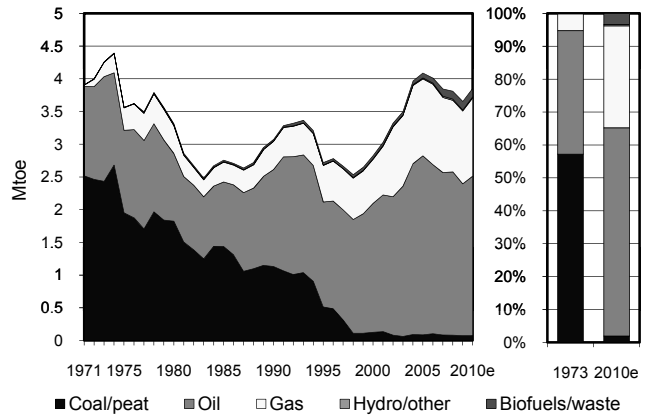


Figure 3. Energy self-sufficiency

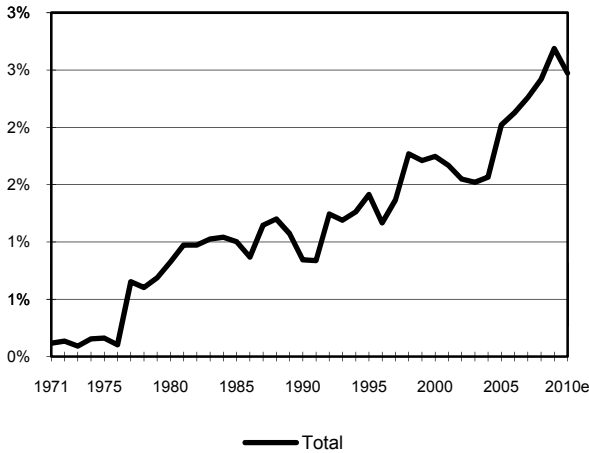


Figure 4. Breakdown of sectorial final consumption by source in 1973 and 2009\*\*

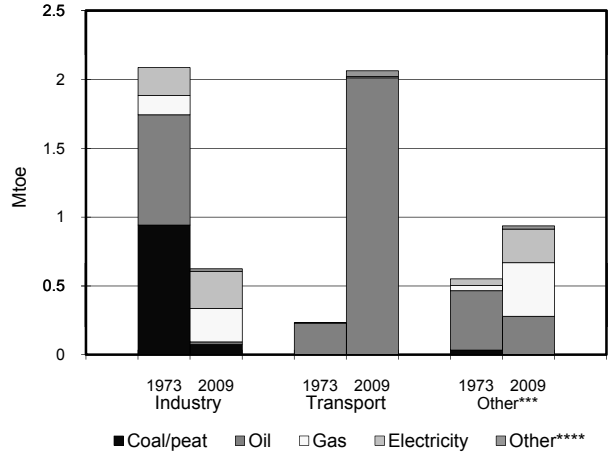


Figure 5. Electricity generation by fuel

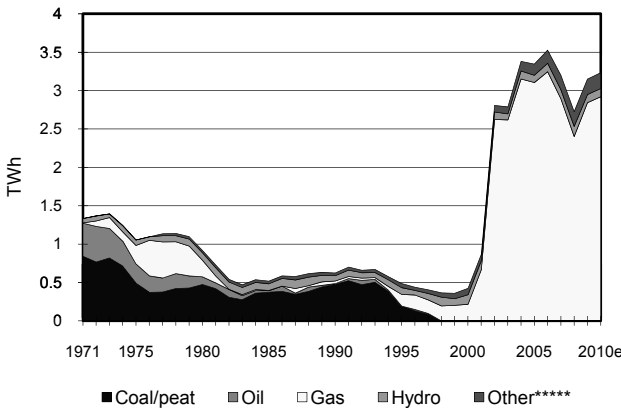
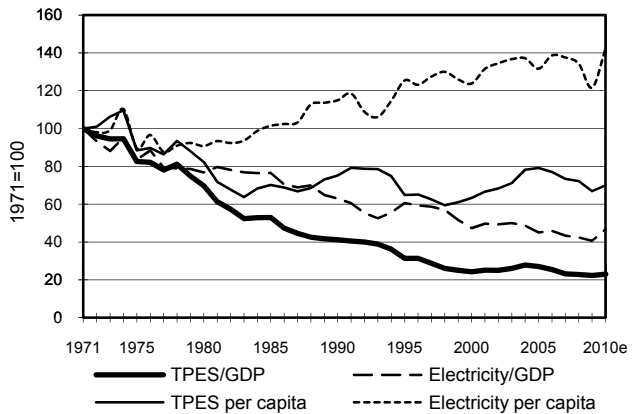


Figure 6. Selected indicators



\* Excluding electricity trade.

\*\* Includes non-energy use.

\*\*\* Includes residential, commercial and public services, agriculture/forestry, fishing and non-specified.

\*\*\*\* Includes biofuels and waste, direct use of geothermal/solar thermal and heat produced in CHP/heat plants.

\*\*\*\*\* Includes geothermal, solar, wind, biofuels and waste, etc.

## Mexico : 2008

Million tonnes of oil equivalent											
<b>SUPPLY AND CONSUMPTION</b>	Coal & peat	Crude oil*	Oil products	Natural gas	Nuclear	Hydro	Geotherm. solar etc.	Biofuels & waste	Electricity	Heat	Total
Production	5.48	168.93	-	38.14	2.55	3.37	6.22	8.65	-	-	233.35
Imports	2.51	0.47	26.99	11.56	-	-	-	-	0.03	-	41.56
Exports	-0.01	-80.80	-6.82	-0.89	-	-	-	-	-0.12	-	-88.65
Intl. marine bunkers	-	-	-1.03	-	-	-	-	-	-	-	-1.03
Intl. aviation bunkers	-	-	-3.18	-	-	-	-	-	-	-	-3.18
Stock changes	-0.27	-0.66	-0.22	0.20	-	-	-	-	-	-	-0.96
<b>TPES</b>	<b>7.71</b>	<b>87.93</b>	<b>15.74</b>	<b>49.00</b>	<b>2.55</b>	<b>3.37</b>	<b>6.22</b>	<b>8.65</b>	<b>-0.09</b>	-	<b>181.09</b>
Transfers	-	-10.62	11.76	-	-	-	-	-	-	-	1.14
Statistical differences	-0.71	-0.42	-1.53	-0.56	-	-	-	-	0.06	-	-3.16
Electricity plants	-5.29	-	-11.07	-23.57	-2.55	-3.37	-6.09	-1.04	22.52	-	-30.47
CHP plants	-	-	-	-	-	-	-	-	-	-	-
Heat plants	-	-	-	-	-	-	-	-	-	-	-
Blast furnaces	-0.15	-	-	-	-	-	-	-	-	-	-0.15
Gas works	-	-	-0.89	0.64	-	-	-	-	-	-	-0.25
Coke/pat. fuel/BKB plants	-0.27	-	-	-	-	-	-	-	-	-	-0.27
Oil refineries	-	-76.90	68.80	-	-	-	-	-	-	-	-8.10
Petrochemical plants	-	-	-	-	-	-	-	-	-	-	-
Liquefaction plants	-	-	-	-	-	-	-	-	-	-	-
Other transformation	-	-	-	-	-	-	-	-	-	-	-
Energy industry own use	-0.03	-	-6.79	-13.00	-	-	-	-	-1.53	-	-21.35
Losses	-	-	-	-	-	-	-	-	-3.56	-	-3.56
<b>TFC</b>	<b>1.26</b>	-	<b>76.02</b>	<b>12.50</b>	-	-	<b>0.13</b>	<b>7.62</b>	<b>17.40</b>	-	<b>114.93</b>
<b>INDUSTRY</b>	<b>1.26</b>	-	<b>6.93</b>	<b>8.63</b>	-	-	<b>0.01</b>	<b>1.36</b>	<b>9.67</b>	-	<b>27.87</b>
Iron and steel	1.09	-	0.37	2.80	-	-	-	-	0.71	-	4.97
Chemical and petrochem.	-	-	0.66	1.69	-	-	-	-	0.73	-	3.07
Non-ferrous metals	-	-	0.00	0.02	-	-	-	-	0.07	-	0.10
Non-metallic minerals	0.11	-	3.00	1.07	-	-	-	-	0.45	-	4.64
Transport equipment	-	-	0.01	0.04	-	-	-	-	0.17	-	0.23
Machinery	-	-	0.05	-	-	-	-	-	-	-	0.05
Mining and quarrying	0.03	-	0.34	0.68	-	-	-	-	0.51	-	1.57
Food and tobacco	-	-	0.46	0.24	-	-	-	1.26	0.29	-	2.25
Paper, pulp and printing	-	-	0.29	0.57	-	-	-	0.01	0.30	-	1.17
Wood and wood products	-	-	-	-	-	-	-	-	-	-	-
Construction	-	-	0.25	-	-	-	-	-	0.04	-	0.29
Textile and leather	-	-	-	-	-	-	-	-	0.00	-	0.00
Non-specified	0.03	-	1.51	1.51	-	-	0.01	0.09	6.39	-	9.53
<b>TRANSPORT</b>	-	-	<b>51.71</b>	<b>0.01</b>	-	-	-	-	<b>0.10</b>	-	<b>51.82</b>
Domestic aviation	-	-	0.02	-	-	-	-	-	-	-	0.02
Road	-	-	50.23	0.01	-	-	-	-	-	-	50.24
Rail	-	-	0.58	-	-	-	-	-	0.10	-	0.67
Pipeline transport	-	-	-	-	-	-	-	-	-	-	-
Domestic navigation	-	-	0.89	-	-	-	-	-	-	-	0.89
Non-specified	-	-	-	-	-	-	-	-	-	-	-
<b>OTHER</b>	-	-	<b>10.95</b>	<b>0.95</b>	-	-	<b>0.13</b>	<b>6.26</b>	<b>7.62</b>	-	<b>25.91</b>
Residential	-	-	6.72	0.74	-	-	0.08	6.26	4.08	-	17.87
Comm. and public services	-	-	1.50	0.21	-	-	0.05	-	1.79	-	3.56
Agriculture/forestry	-	-	2.73	-	-	-	-	-	0.70	-	3.43
Fishing	-	-	-	-	-	-	-	-	-	-	-
Non-specified	-	-	-	-	-	-	-	-	1.06	-	1.06
<b>NON-ENERGY USE</b>	-	-	<b>6.42</b>	<b>2.90</b>	-	-	-	-	-	-	<b>9.32</b>
in industry/transf./energy	-	-	6.42	2.90	-	-	-	-	-	-	9.32
<i>of which: feedstocks</i>	-	-	4.22	2.90	-	-	-	-	-	-	7.13
in transport	-	-	-	-	-	-	-	-	-	-	-
in other	-	-	-	-	-	-	-	-	-	-	-
<b>Electricity and Heat Output</b>											
<b>Elec. generated - TWh</b>	<b>21.40</b>	-	<b>49.46</b>	<b>132.22</b>	<b>9.80</b>	<b>39.18</b>	<b>7.33</b>	<b>2.47</b>	-	-	<b>261.86</b>
Electricity plants	21.40	-	49.46	132.22	9.80	39.18	7.33	2.47	-	-	261.86
CHP plants	-	-	-	-	-	-	-	-	-	-	-
<b>Heat generated - PJ</b>	-	-	-	-	-	-	-	-	-	-	-
CHP plants	-	-	-	-	-	-	-	-	-	-	-
Heat plants	-	-	-	-	-	-	-	-	-	-	-

\* Includes crude oil, NGL, refinery feedstocks, additives and other hydrocarbons.

## Mexico : 2009

Million tonnes of oil equivalent											
<b>SUPPLY AND CONSUMPTION</b>	Coal & peat	Crude oil*	Oil products	Natural gas	Nuclear	Hydro	Geotherm. solar etc.	Biofuels & waste	Electricity	Heat	Total
Production	5.06	157.15	-	38.40	2.74	2.30	6.01	8.38	-	-	220.03
Imports	2.97	0.50	24.44	10.77	-	-	-	-	0.03	-	38.71
Exports	-0.00	-70.21	-10.15	-0.59	-	-	-	-	-0.11	-	-81.05
Intl. marine bunkers	-	-	-0.77	-	-	-	-	-	-	-	-0.77
Intl. aviation bunkers	-	-	-2.69	-	-	-	-	-	-	-	-2.69
Stock changes	-0.28	0.45	0.31	-0.07	-	-	-	-	-	-	0.41
<b>TPES</b>	<b>7.75</b>	<b>87.90</b>	<b>11.14</b>	<b>48.51</b>	<b>2.74</b>	<b>2.30</b>	<b>6.01</b>	<b>8.38</b>	<b>-0.08</b>	-	<b>174.64</b>
Transfers	-	-10.72	11.87	-	-	-	-	-	-	-	1.15
Statistical differences	0.91	-0.66	-3.72	-0.45	-	-	-	-	0.15	-	-3.76
Electricity plants	-7.14	-	-10.61	-23.73	-2.74	-2.30	-5.85	-1.13	22.45	-	-31.04
CHP plants	-	-	-	-	-	-	-	-	-	-	-
Heat plants	-	-	-	-	-	-	-	-	-	-	-
Blast furnaces	-0.13	-	-	-	-	-	-	-	-	-	-0.13
Gas works	-	-	-0.86	0.61	-	-	-	-	-	-	-0.25
Coke/pat. fuel/BKB plants	-0.24	-	-	-	-	-	-	-	-	-	-0.24
Oil refineries	-	-76.52	71.42	-	-	-	-	-	-	-	-5.10
Petrochemical plants	-	-	-	-	-	-	-	-	-	-	-
Liquefaction plants	-	-	-	-	-	-	-	-	-	-	-
Other transformation	-	-	-	-	-	-	-	-	-	-	-
Energy industry own use	-0.07	-	-6.73	-13.14	-	-	-	-	-1.58	-	-21.52
Losses	-	-	-	-	-	-	-	-	-3.65	-	-3.65
<b>TFC</b>	<b>1.09</b>	-	<b>72.50</b>	<b>11.80</b>	-	-	<b>0.16</b>	<b>7.25</b>	<b>17.29</b>	-	<b>110.10</b>
<b>INDUSTRY</b>	<b>1.09</b>	-	<b>6.18</b>	<b>8.24</b>	-	-	<b>0.01</b>	<b>1.03</b>	<b>9.29</b>	-	<b>25.84</b>
Iron and steel	0.95	-	0.29	2.18	-	-	-	-	0.68	-	4.09
Chemical and petrochem.	-	-	0.39	1.54	-	-	-	-	0.73	-	2.66
Non-ferrous metals	-	-	0.00	0.02	-	-	-	-	0.07	-	0.09
Non-metallic minerals	0.10	-	2.78	1.09	-	-	-	-	0.36	-	4.33
Transport equipment	-	-	0.01	0.04	-	-	-	-	0.16	-	0.22
Machinery	-	-	0.01	-	-	-	-	-	-	-	0.01
Mining and quarrying	0.03	-	0.33	0.65	-	-	-	-	0.48	-	1.49
Food and tobacco	-	-	0.38	0.23	-	-	-	0.95	0.29	-	1.85
Paper, pulp and printing	-	-	0.29	0.62	-	-	-	-	0.30	-	1.22
Wood and wood products	-	-	-	-	-	-	-	-	-	-	-
Construction	-	-	0.26	-	-	-	-	-	0.04	-	0.30
Textile and leather	-	-	-	-	-	-	-	-	0.01	-	0.01
Non-specified	0.01	-	1.45	1.86	-	-	0.01	0.08	6.17	-	9.58
<b>TRANSPORT</b>	-	-	<b>50.37</b>	<b>0.01</b>	-	-	-	-	<b>0.10</b>	-	<b>50.47</b>
Domestic aviation	-	-	0.02	-	-	-	-	-	-	-	0.02
Road	-	-	49.15	0.01	-	-	-	-	-	-	49.16
Rail	-	-	0.55	-	-	-	-	-	0.10	-	0.65
Pipeline transport	-	-	-	-	-	-	-	-	-	-	-
Domestic navigation	-	-	0.64	-	-	-	-	-	-	-	0.64
Non-specified	-	-	-	-	-	-	-	-	-	-	-
<b>OTHER</b>	-	-	<b>10.70</b>	<b>0.90</b>	-	-	<b>0.15</b>	<b>6.22</b>	<b>7.91</b>	-	<b>25.88</b>
Residential	-	-	6.45	0.69	-	-	0.09	6.22	4.23	-	17.69
Comm. and public services	-	-	1.45	0.21	-	-	0.06	-	1.84	-	3.56
Agriculture/forestry	-	-	2.80	-	-	-	-	-	0.80	-	3.60
Fishing	-	-	-	-	-	-	-	-	-	-	-
Non-specified	-	-	-	-	-	-	-	-	1.04	-	1.04
<b>NON-ENERGY USE</b>	-	-	<b>5.25</b>	<b>2.65</b>	-	-	-	-	-	-	<b>7.90</b>
in industry/transf./energy	-	-	5.25	2.65	-	-	-	-	-	-	7.90
of which: feedstocks	-	-	3.21	2.65	-	-	-	-	-	-	5.86
in transport	-	-	-	-	-	-	-	-	-	-	-
in other	-	-	-	-	-	-	-	-	-	-	-
<b>Electricity and Heat Output</b>											
<b>Elec. generated - TWh</b>	<b>29.52</b>	-	<b>45.75</b>	<b>138.47</b>	<b>10.50</b>	<b>26.71</b>	<b>7.35</b>	<b>2.72</b>	-	-	<b>261.02</b>
Electricity plants	29.52	-	45.75	138.47	10.50	26.71	7.35	2.72	-	-	261.02
CHP plants	-	-	-	-	-	-	-	-	-	-	-
<b>Heat generated - PJ</b>	-	-	-	-	-	-	-	-	-	-	-
CHP plants	-	-	-	-	-	-	-	-	-	-	-
Heat plants	-	-	-	-	-	-	-	-	-	-	-

\* Includes crude oil, NGL, refinery feedstocks, additives and other hydrocarbons.

## Mexico

## Estimated energy supply balance for 2010

Million tonnes of oil equivalent											
SUPPLY	Coal & peat	Crude oil*	Oil products	Natural gas	Nuclear	Hydro	Geotherm. solar etc.	Biofuels & waste	Electricity	Heat	Total
Production	4.77	155.46	-	38.44	1.53	3.19	5.92	8.38	-	-	217.69
Imports	3.97	0.40	28.57	11.28	-	-	-	-	0.03	-	44.26
Exports	-0.00	-78.16	-9.63	-0.17	-	-	-	-	-0.12	-	-88.08
Intl. marine bunkers	-	-	-0.77	-	-	-	-	-	-	-	-0.77
Intl. aviation bunkers	-	-	-2.68	-	-	-	-	-	-	-	-2.68
Stock changes	-0.16	0.05	-0.48	-	-	-	-	-	-	-	-0.58
<b>TPES</b>	<b>8.58</b>	<b>77.75</b>	<b>15.01</b>	<b>49.56</b>	<b>1.53</b>	<b>3.19</b>	<b>5.92</b>	<b>8.38</b>	<b>-0.08</b>	<b>-</b>	<b>169.83</b>
Electricity and Heat Output											
Elec. generated - TWh	32.40	-	43.12	140.19	5.88	37.11	7.03	2.72	-	-	268.43
Heat generated - PJ	-	-	-	-	-	-	-	-	-	-	-

\* Includes crude oil, NGL, refinery feedstocks, additives and other hydrocarbons.

## Key indicators

	1960	1971	1980	1990	2000	2008	2009	2010e
Energy production (Mtoe)	..	43.4	147.0	194.7	222.3	233.4	220.0	217.7
Net imports (Mtoe)	..	0.3	-49.4	-69.9	-71.6	-47.1	-42.3	-43.8
Total primary energy supply (Mtoe)	..	43.0	95.1	122.5	145.1	181.1	174.6	169.8
Net oil imports (Mtoe)	..	0.6	-47.6	-70.4	-75.6	-60.2	-55.4	-58.8
Oil supply (Mtoe)	..	25.5	64.5	80.3	90.2	103.7	99.0	92.8
Electricity consumption (TWh)*	..	26.9	60.1	99.5	176.6	219.4	217.7	225.0
GDP (billion 2000 USD)	104.1 e	208.0	378.4	452.6	636.7	770.6	724.4	764.2
GDP PPP (billion 2000 USD)	161.4 e	322.5	586.6	701.6	987.1	1194.7	1123.0	1184.7
Population (millions)	34.58 e	49.88	65.70	81.25	98.26	106.57	107.44	108.32
Industrial production index (2005=100)	..	..	56.37	67.13	99.67	107.77	99.83	105.87
Total self-sufficiency**	..	1.0088	1.5458	1.5891	1.5318	1.2886	1.2599	1.2818
Coal and peat self-sufficiency**	..	0.8226	0.7322	0.9771	0.7909	0.7103	0.6536	0.5559
Oil self-sufficiency**	..	1.0071	1.7787	1.9032	1.8964	1.6294	1.5868	1.6758
Natural gas self-sufficiency**	..	1.0547	1.1264	0.9840	0.9239	0.7784	0.7915	0.7757
TPES/GDP (toe per thousand 2000 USD)	..	0.2066	0.2514	0.2707	0.2279	0.2350	0.2411	0.2222
TPES/GDP PPP (toe per thousand 2000 USD)	..	0.1333	0.1622	0.1746	0.1470	0.1516	0.1555	0.1434
TPES/population (toe per capita)	..	0.8618	1.4478	1.5076	1.4770	1.6992	1.6254	1.5679
Net oil imports/GDP (toe per thousand 2000 USD)	..	0.0026	-0.1257	-0.1555	-0.1187	-0.0781	-0.0765	-0.0770
Oil supply/GDP (toe per thousand 2000 USD)	..	0.1225	0.1703	0.1774	0.1417	0.1345	0.1367	0.1214
Oil supply/population (toe per capita)	..	0.5107	0.9810	0.9879	0.9183	0.9728	0.9217	0.8564
Elect. cons./GDP (kWh per 2000 USD)	..	0.1295	0.1589	0.2198	0.2773	0.2846	0.3005	0.2945
Elect. cons./population (kWh per capita)	..	540	915	1224	1797	2058	2026	2077
Industry cons.***/industrial production (2005=100)	..	..	136.00	148.66	106.43	97.24	95.22	..
Industry oil cons.***/industrial production (2005=100)	..	..	117.98	152.11	103.24	90.55	83.73	..

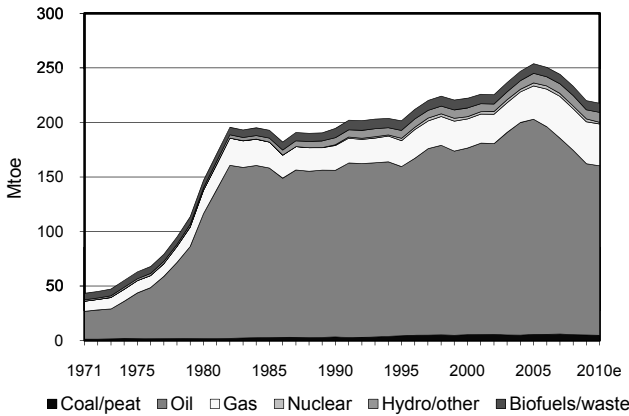
\* Electricity consumption equals domestic supply less losses.

\*\* Production divided by TPES.

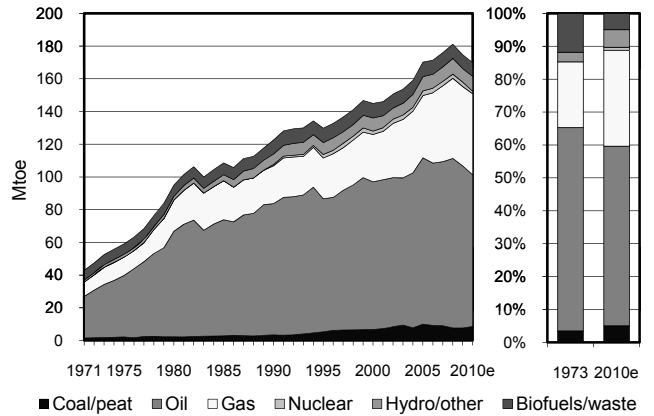
\*\*\* Includes non-energy use.

## Mexico

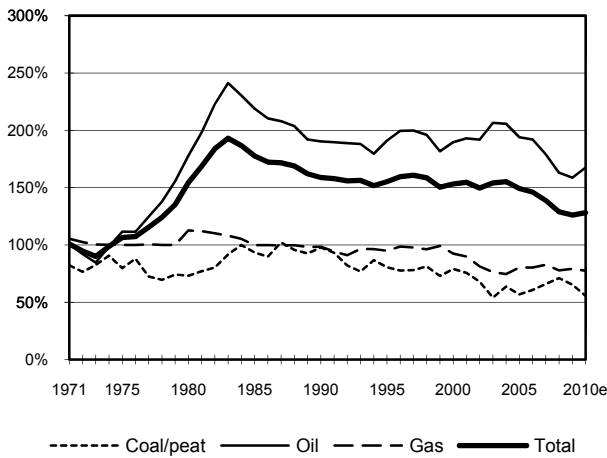
**Figure 1. Energy production**



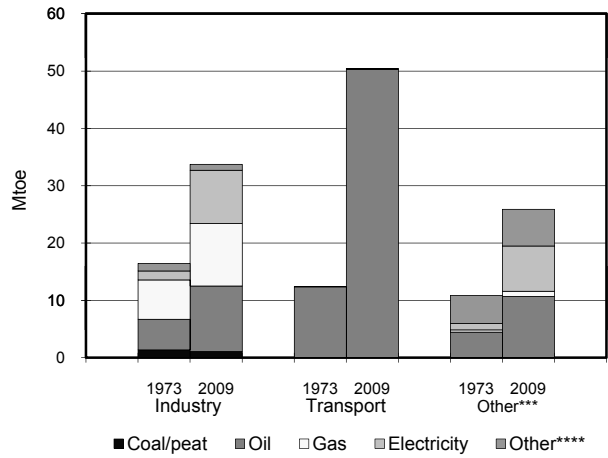
**Figure 2. Total primary energy supply\***



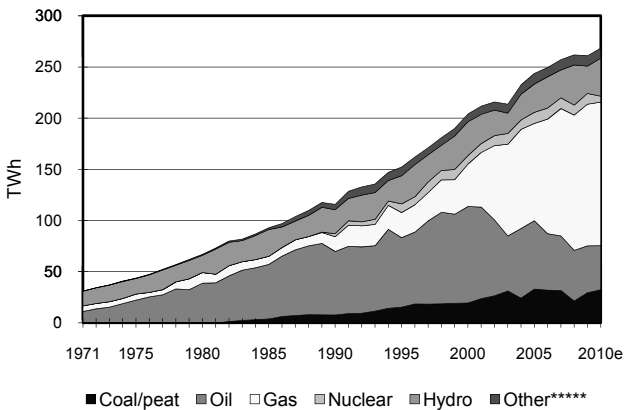
**Figure 3. Energy self-sufficiency**



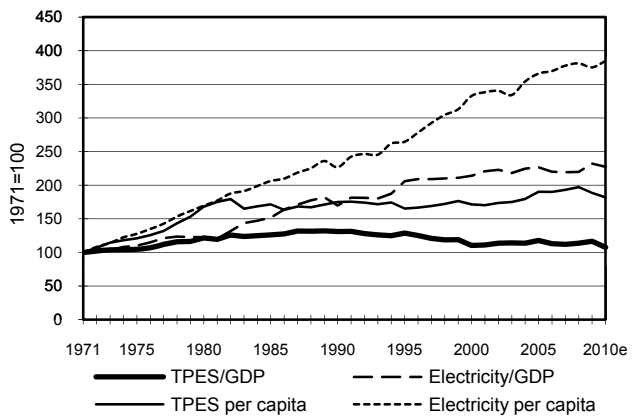
**Figure 4. Breakdown of sectorial final consumption by source in 1973 and 2009\*\***



**Figure 5. Electricity generation by fuel**



**Figure 6. Selected indicators**



\* Excluding electricity trade.

\*\* Includes non-energy use.

\*\*\* Includes residential, commercial and public services, agriculture/forestry, fishing and non-specified.

\*\*\*\* Includes biofuels and waste, direct use of geothermal/solar thermal and heat produced in CHP/heat plants.

\*\*\*\*\* Includes geothermal, solar, wind, biofuels and waste, etc.

## Netherlands : 2008

Million tonnes of oil equivalent											
<b>SUPPLY AND CONSUMPTION</b>	Coal & peat	Crude oil*	Oil products	Natural gas	Nuclear	Hydro	Geotherm. solar etc.	Biofuels & waste	Electricity	Heat	Total
Production	-	2.43	-	59.88	1.09	0.01	0.41	2.80	-	-	66.61
Imports	13.18	61.30	69.57	18.96	-	-	-	0.84	2.15	-	165.99
Exports	-4.61	-2.90	-78.95	-44.22	-	-	-	-0.39	-0.78	-	-131.85
Intl. marine bunkers	-	-	-15.26	-	-	-	-	-	-	-	-15.26
Intl. aviation bunkers	-	-	-3.72	-	-	-	-	-	-	-	-3.72
Stock changes	-0.48	0.45	-2.12	0.03	-	-	-	-0.10	-	-	-2.22
<b>TPES</b>	<b>8.08</b>	<b>61.28</b>	<b>-30.47</b>	<b>34.65</b>	<b>1.09</b>	<b>0.01</b>	<b>0.41</b>	<b>3.15</b>	<b>1.36</b>	<b>-</b>	<b>79.55</b>
Transfers	-	-1.06	1.29	-	-	-	-	-	-	-	0.23
Statistical differences	0.00	-0.41	0.45	0.00	-	-	-	0.00	-	-	0.05
Electricity plants	-3.10	-	-	-3.06	-1.09	-0.01	-0.38	-0.74	3.95	-	-4.43
CHP plants	-2.38	-	-0.59	-8.43	-	-	-	-1.41	5.30	2.91	-4.58
Heat plants	-	-	-	-0.24	-	-	-	-0.18	-	0.36	-0.06
Blast furnaces	-1.31	-	-	-	-	-	-	-	-	-	-1.31
Gas works	-	-	-0.14	0.12	-	-	-	-0.01	-	-	-0.02
Coke/pat. fuel/BKB plants	-0.15	-	-	-	-	-	-	-	-	-	-0.15
Oil refineries	-	-58.98	58.88	-	-	-	-	-	-	-	-0.10
Petrochemical plants	-	3.82	-3.93	-	-	-	-	-	-	-	-0.11
Liquefaction plants	-	-	-	-	-	-	-	-	-	-	-
Other transformation	-	-	-	-	-	-	-	-0.00	-	-0.22	-0.23
Energy industry own use	-0.19	-	-2.40	-1.47	-	-	-	-	-0.83	-0.17	-5.06
Losses	-	-	-	-	-	-	-	-	-0.40	-0.49	-0.89
<b>TFC</b>	<b>0.95</b>	<b>4.65</b>	<b>23.09</b>	<b>21.57</b>	<b>-</b>	<b>-</b>	<b>0.02</b>	<b>0.80</b>	<b>9.39</b>	<b>2.39</b>	<b>62.87</b>
<b>INDUSTRY</b>	<b>0.58</b>	<b>2.05</b>	<b>0.79</b>	<b>5.28</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.14</b>	<b>3.62</b>	<b>1.43</b>	<b>13.89</b>
Iron and steel	0.51	-	0.00	0.26	-	-	-	-	0.23	0.00	1.01
Chemical and petrochem.	-	2.05	0.59	1.84	-	-	-	0.00	1.09	0.96	6.54
Non-ferrous metals	-	-	-	0.10	-	-	-	-	0.55	0.03	0.68
Non-metallic minerals	0.04	-	0.03	0.56	-	-	-	-	0.13	0.00	0.76
Transport equipment	-	-	0.01	0.06	-	-	-	-	0.06	0.00	0.14
Machinery	-	-	0.02	0.28	-	-	-	-	0.29	0.01	0.59
Mining and quarrying	0.00	-	0.01	0.09	-	-	-	-	0.03	0.09	0.22
Food and tobacco	0.03	-	0.00	1.29	-	-	-	0.02	0.59	0.12	2.05
Paper, pulp and printing	-	-	-	0.40	-	-	-	0.00	0.32	0.19	0.91
Wood and wood products	-	-	-	0.01	-	-	-	0.02	0.02	0.00	0.06
Construction	-	-	0.12	0.10	-	-	-	0.00	0.04	-	0.26
Textile and leather	-	-	-	0.08	-	-	-	-	0.03	0.00	0.11
Non-specified	-	-	0.02	0.19	-	-	-	0.08	0.24	0.01	0.55
<b>TRANSPORT</b>	<b>-</b>	<b>-</b>	<b>11.68</b>	<b>0.00</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.29</b>	<b>0.14</b>	<b>-</b>	<b>12.11</b>
Domestic aviation	-	-	0.05	-	-	-	-	-	-	-	0.05
Road	-	-	11.36	0.00	-	-	-	0.29	0.00	-	11.65
Rail	-	-	0.03	-	-	-	-	-	0.14	-	0.17
Pipeline transport	-	-	-	-	-	-	-	-	-	-	-
Domestic navigation	-	-	0.24	-	-	-	-	-	-	-	0.24
Non-specified	-	-	-	-	-	-	-	-	-	-	-
<b>OTHER</b>	<b>0.02</b>	<b>-</b>	<b>1.16</b>	<b>14.30</b>	<b>-</b>	<b>-</b>	<b>0.02</b>	<b>0.38</b>	<b>5.62</b>	<b>0.97</b>	<b>22.48</b>
Residential	0.01	-	0.06	7.10	-	-	0.02	0.30	2.13	0.24	9.86
Comm. and public services	0.01	-	0.56	5.42	-	-	0.00	0.04	2.82	0.58	9.43
Agriculture/forestry	-	-	0.49	1.78	-	-	0.00	0.04	0.67	0.16	3.14
Fishing	-	-	0.05	-	-	-	-	-	-	-	0.05
Non-specified	-	-	-	-	-	-	-	-	-	-	-
<b>NON-ENERGY USE</b>	<b>0.35</b>	<b>2.60</b>	<b>9.45</b>	<b>1.99</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>14.40</b>
in industry/transf./energy	0.35	2.60	9.21	1.99	-	-	-	-	-	-	14.16
<i>of which: feedstocks</i>	<i>0.11</i>	<i>2.60</i>	<i>7.73</i>	<i>1.99</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>12.44</i>
in transport	-	-	0.09	-	-	-	-	-	-	-	0.09
in other	-	-	0.16	-	-	-	-	-	-	-	0.16
<b>Electricity and Heat Output</b>											
<b>Elec. generated - TWh</b>	<b>26.80</b>	<b>-</b>	<b>2.07</b>	<b>63.47</b>	<b>4.17</b>	<b>0.10</b>	<b>4.45</b>	<b>6.60</b>	<b>-</b>	<b>-</b>	<b>107.65</b>
Electricity plants	15.17	-	-	19.61	4.17	0.10	4.45	2.47	-	-	45.96
CHP plants	11.63	-	2.07	43.86	-	-	-	4.13	-	-	61.69
<b>Heat generated - PJ</b>	<b>17.64</b>	<b>-</b>	<b>8.22</b>	<b>101.48</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>9.89</b>	<b>-</b>	<b>-</b>	<b>137.24</b>
CHP plants	17.64	-	8.22	91.88	-	-	-	4.28	-	-	122.03
Heat plants	-	-	-	9.60	-	-	-	5.61	-	-	15.21

\* Includes crude oil, NGL, refinery feedstocks, additives and other hydrocarbons.

## Netherlands : 2009

Million tonnes of oil equivalent											
<b>SUPPLY AND CONSUMPTION</b>	Coal & peat	Crude oil*	Oil products	Natural gas	Nuclear	Hydro	Geotherm. solar etc.	Biofuels & waste	Electricity	Heat	Total
Production	-	2.03	-	56.39	1.10	0.01	0.43	3.08	-	-	63.05
Imports	12.22	61.20	77.35	18.38	-	-	-	0.71	1.33	-	171.19
Exports	-2.92	-2.50	-89.58	-39.84	-	-	-	-0.32	-0.91	-	-136.07
Intl. marine bunkers	-	-	-14.00	-	-	-	-	-	-	-	-14.00
Intl. aviation bunkers	-	-	-3.46	-	-	-	-	-	-	-	-3.46
Stock changes	-1.84	-0.41	-0.30	0.03	-	-	-	-0.01	-	-	-2.53
<b>TPES</b>	<b>7.46</b>	<b>60.32</b>	<b>-29.99</b>	<b>34.96</b>	<b>1.10</b>	<b>0.01</b>	<b>0.43</b>	<b>3.46</b>	<b>0.42</b>	<b>-</b>	<b>78.17</b>
Transfers	-	-0.44	0.50	-	-	-	-	-	-	-	0.06
Statistical differences	-0.01	0.41	-0.67	-	-	-	-	-	-	-	-0.27
Electricity plants	-3.39	-	-	-3.88	-1.10	-0.01	-0.41	-0.84	4.52	-	-5.10
CHP plants	-2.02	-	-0.41	-8.45	-	-	-	-1.47	5.24	2.97	-4.14
Heat plants	-	-	-	-0.25	-	-	-	-0.23	-	0.40	-0.08
Blast furnaces	-1.00 e	-	-	-	-	-	-	-	-	-	-1.00
Gas works	-	-	-0.13	0.12	-	-	-	-0.01	-	-	-0.02
Coke/pat. fuel/BKB plants	-0.14	-	-	-	-	-	-	-	-	-	-0.14
Oil refineries	-	-59.50	58.76	-	-	-	-	-	-	-	-0.74
Petrochemical plants	-	3.53	-3.66	-	-	-	-	-	-	-	-0.13
Liquefaction plants	-	-	-	-	-	-	-	-	-	-	-
Other transformation	-	-	-	-	-	-	-	-0.00	-	-0.34	-0.35
Energy industry own use	-0.15	-	-2.34	-1.46	-	-	-	-	-0.86	-0.47	-5.28
Losses	-	-	-	-	-	-	-	-	-0.38	-0.51	-0.88
<b>TFC</b>	<b>0.76</b>	<b>4.33</b>	<b>22.05</b>	<b>21.03</b>	<b>-</b>	<b>-</b>	<b>0.03</b>	<b>0.90</b>	<b>8.94</b>	<b>2.06</b>	<b>60.10</b>
<b>INDUSTRY</b>	<b>0.55</b>	<b>1.95</b>	<b>0.29</b>	<b>4.78</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.13</b>	<b>3.12</b>	<b>1.04</b>	<b>11.85</b>
Iron and steel	0.49 e	-	0.01	0.23	-	-	-	-	0.21	0.00	0.93
Chemical and petrochem.	-	1.95	0.13	1.74	-	-	-	0.00	1.06	0.66	5.55
Non-ferrous metals	-	-	0.01	0.07	-	-	-	-	0.33	0.03	0.44
Non-metallic minerals	0.03	-	0.01	0.51	-	-	-	-	0.13	0.00	0.67
Transport equipment	-	-	0.01	0.06	-	-	-	-	0.06	0.00	0.13
Machinery	-	-	0.01	0.34	-	-	-	-	0.30	0.01	0.65
Mining and quarrying	0.00	-	0.00	0.03	-	-	-	-	0.02	0.09	0.14
Food and tobacco	0.03	-	0.00	1.15	-	-	-	0.01	0.53	0.10	1.82
Paper, pulp and printing	-	-	-	0.34	-	-	-	0.00	0.24	0.14	0.72
Wood and wood products	-	-	-	0.02	-	-	-	0.02	0.02	0.00	0.07
Construction	-	-	0.11	0.09	-	-	-	0.00	0.04	-	0.25
Textile and leather	-	-	-	0.07	-	-	-	-	0.03	0.00	0.10
Non-specified	-	-	-	0.12	-	-	-	0.08	0.16	0.01	0.37
<b>TRANSPORT</b>	<b>-</b>	<b>-</b>	<b>10.97</b>	<b>0.00</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.37</b>	<b>0.14</b>	<b>-</b>	<b>11.49</b>
Domestic aviation	-	-	0.05	-	-	-	-	-	-	-	0.05
Road	-	-	10.75	0.00	-	-	-	0.37	0.00	-	11.13
Rail	-	-	0.02	-	-	-	-	-	0.14	-	0.16
Pipeline transport	-	-	-	-	-	-	-	-	-	-	-
Domestic navigation	-	-	0.15	-	-	-	-	-	-	-	0.15
Non-specified	-	-	-	-	-	-	-	-	-	-	-
<b>OTHER</b>	<b>0.01</b>	<b>-</b>	<b>1.04</b>	<b>14.27</b>	<b>-</b>	<b>-</b>	<b>0.03</b>	<b>0.40</b>	<b>5.68</b>	<b>1.02</b>	<b>22.45</b>
Residential	0.00	-	0.06	7.46	-	-	0.02	0.30	2.08	0.27	10.19
Comm. and public services	0.00	-	0.42	4.95	-	-	0.00	0.04	2.90	0.62	8.94
Agriculture/forestry	-	-	0.50	1.86	-	-	0.00	0.06	0.70	0.14	3.25
Fishing	-	-	0.05	-	-	-	-	-	-	-	0.05
Non-specified	-	-	0.01	-	-	-	-	-	-	-	0.01
<b>NON-ENERGY USE</b>	<b>0.20</b>	<b>2.38</b>	<b>9.75</b>	<b>1.98</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>14.31</b>
in industry/transf./energy	0.20	2.38	9.52	1.98	-	-	-	-	-	-	14.08
<i>of which: feedstocks</i>	0.11	2.38	8.07	1.98	-	-	-	-	-	-	12.54
in transport	-	-	0.08	-	-	-	-	-	-	-	0.08
in other	-	-	0.16	-	-	-	-	-	-	-	0.16
<b>Electricity and Heat Output</b>											
<b>Elec. generated - TWh</b>	<b>26.61</b>	<b>-</b>	<b>1.49</b>	<b>68.71</b>	<b>4.23</b>	<b>0.10</b>	<b>4.76</b>	<b>7.62</b>	<b>-</b>	<b>-</b>	<b>113.50</b>
Electricity plants	16.62	-	-	24.18	4.23	0.10	4.76	2.71	-	-	52.59
CHP plants	9.99	-	1.49	44.53	-	-	-	4.91	-	-	60.91
<b>Heat generated - PJ</b>	<b>15.42</b>	<b>-</b>	<b>6.08</b>	<b>108.04</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>11.68</b>	<b>-</b>	<b>-</b>	<b>141.22</b>
CHP plants	15.42	-	6.08	98.03	-	-	-	4.99	-	-	124.52
Heat plants	-	-	-	10.01	-	-	-	6.69	-	-	16.70

\* Includes crude oil, NGL, refinery feedstocks, additives and other hydrocarbons.



## Netherlands

## Estimated energy supply balance for 2010

Million tonnes of oil equivalent											
SUPPLY	Coal & peat	Crude oil*	Oil products	Natural gas	Nuclear	Hydro	Geotherm. solar etc.	Biofuels & waste	Electricity	Heat	Total
Production	-	1.69	-	63.42	1.03	0.01	0.39	3.20	-	-	69.74
Imports	12.82	62.92	84.91	18.45	-	-	-	0.66	1.34	-	181.10
Exports	-3.59	-2.42	-100.16	-42.65	-	-	-	-0.56	-1.10	-	-150.49
Intl. marine bunkers	-	-	-13.56	-	-	-	-	-	-	-	-13.56
Intl. aviation bunkers	-	-	-3.35	-	-	-	-	-	-	-	-3.35
Stock changes	-1.30	-0.01	1.13	-0.01	-	-	-	0.06	-	-	-0.12
<b>TPES</b>	<b>7.93</b>	<b>62.18</b>	<b>-31.03</b>	<b>39.20</b>	<b>1.03</b>	<b>0.01</b>	<b>0.39</b>	<b>3.37</b>	<b>0.24</b>	<b>-</b>	<b>83.33</b>
Electricity and Heat Output											
Elec. generated - TWh	25.19	-	1.34	71.31	3.97	0.11	4.19	8.64	-	-	114.73
Heat generated - PJ	14.59	-	5.41	108.67	-	-	-	12.56	-	-	141.22

\* Includes crude oil, NGL, refinery feedstocks, additives and other hydrocarbons.

## Key indicators

	1960	1971	1980	1990	2000	2008	2009	2010e
Energy production (Mtoe)	10.2	37.3	71.8	60.5	57.6	66.6	63.1	69.7
Net imports (Mtoe)	13.7	24.0	3.4	17.6	34.7	34.1	35.1	30.6
Total primary energy supply (Mtoe)	21.0	50.9	64.4	65.7	73.2	79.6	78.2	83.3
Net oil imports (Mtoe)	12.1	36.0	38.2	31.2	42.3	49.0	46.5	45.3
Oil supply (Mtoe)	10.8	27.5	28.9	23.3	25.9	30.8	30.3	31.2
Electricity consumption (TWh)*	15.6	41.5	61.8	78.0	104.5	118.8	114.0	113.1
GDP (billion 2000 USD)	101.1 e	173.6	226.2	282.0	385.1	450.1	432.5	440.1
GDP PPP (billion 2000 USD)	122.9 e	211.0	275.0	342.8	468.2	547.3	525.8	535.1
Population (millions)	11.48 e	13.19	14.15	14.95	15.92	16.44	16.53	16.65
Industrial production index (2005=100)	27.10	58.00	73.30	77.90	95.20	105.30	97.60	104.40
Total self-sufficiency**	0.4864	0.7341	1.1158	0.9217	0.7862	0.8373	0.8065	0.8369
Coal and peat self-sufficiency**	0.8027	0.6973	-	-	-	-	-	-
Oil self-sufficiency**	0.1821	0.0635	0.0557	0.1748	0.0937	0.0790	0.0669	0.0541
Natural gas self-sufficiency**	1.0000	1.6604	2.2645	1.7726	1.4913	1.7282	1.6131	1.6177
TPES/GDP (toe per thousand 2000 USD)	0.2075 e	0.2931	0.2846	0.2330	0.1902	0.1767	0.1808	0.1893
TPES/GDP PPP (toe per thousand 2000 USD)	0.1707 e	0.2410	0.2341	0.1916	0.1564	0.1454	0.1487	0.1557
TPES/population (toe per capita)	1.8268 e	3.8555	4.5494	4.3945	4.5988	4.8388	4.7301	5.0059
Net oil imports/GDP (toe per thousand 2000 USD)	0.1197 e	0.2075	0.1687	0.1105	0.1099	0.1089	0.1075	0.1028
Oil supply/GDP (toe per thousand 2000 USD)	0.1065 e	0.1586	0.1276	0.0826	0.0672	0.0684	0.0701	0.0708
Oil supply/population (toe per capita)	0.9378 e	2.0859	2.0396	1.5573	1.6261	1.8741	1.8350	1.8717
Elect. cons./GDP (kWh per 2000 USD)	0.1538 e	0.2392	0.2730	0.2767	0.2713	0.2640	0.2636	0.2570
Elect. cons./population (kWh per capita)	1354 e	3147	4365	5220	6561	7229	6897	6795
Industry cons.***/industrial production (2005=100)	74.71	99.19	127.78	99.59	94.11	98.78	98.54	..
Industry oil cons.***/industrial production (2005=100)	95.18	100.66	154.33	83.54	77.31	114.60	119.24	..

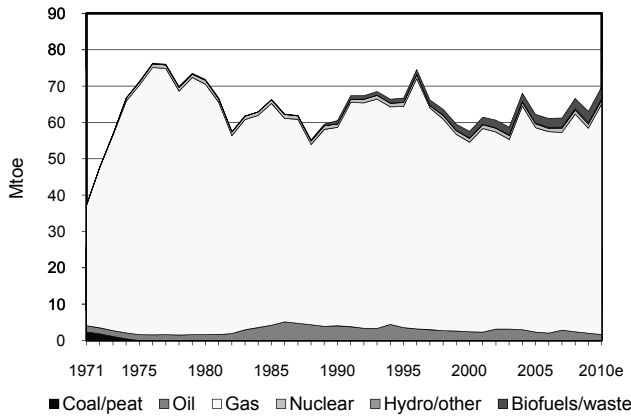
\* Electricity consumption equals domestic supply less losses.

\*\* Production divided by TPES.

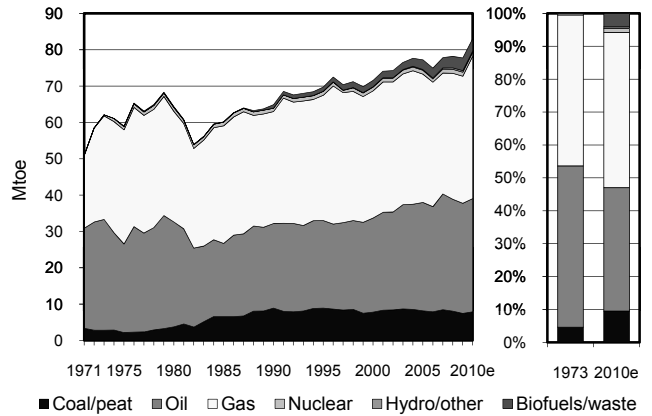
\*\*\* Includes non-energy use.

## Netherlands

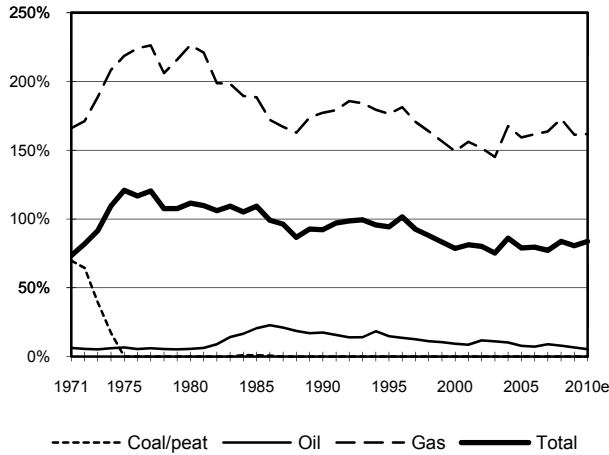
**Figure 1. Energy production**



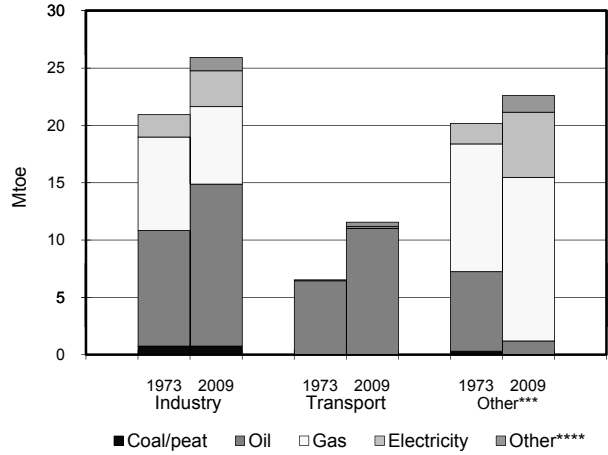
**Figure 2. Total primary energy supply\***



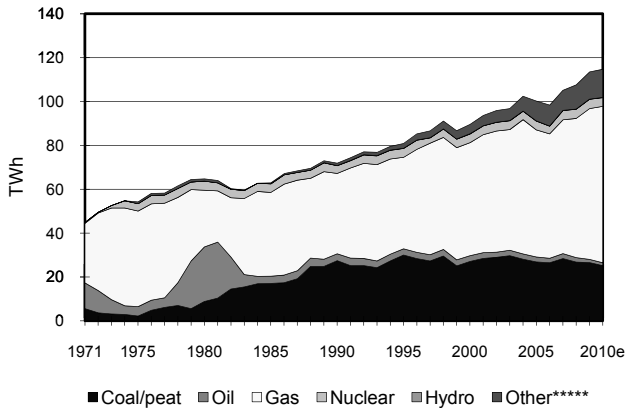
**Figure 3. Energy self-sufficiency**



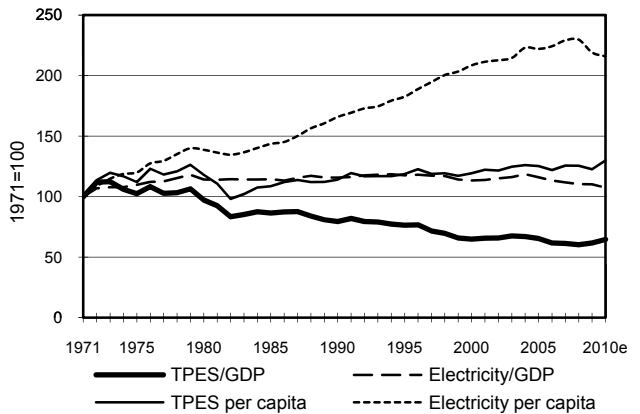
**Figure 4. Breakdown of sectorial final consumption by source in 1973 and 2009\*\***



**Figure 5. Electricity generation by fuel**



**Figure 6. Selected indicators**



\* Excluding electricity trade.

\*\* Includes non-energy use.

\*\*\* Includes residential, commercial and public services, agriculture/forestry, fishing and non-specified.

\*\*\*\* Includes biofuels and waste, direct use of geothermal/solar thermal and heat produced in CHP/heat plants.

\*\*\*\*\* Includes geothermal, solar, wind, biofuels and waste, etc.

## New Zealand : 2008

Million tonnes of oil equivalent											
SUPPLY AND CONSUMPTION	Coal & peat	Crude oil*	Oil products	Natural gas	Nuclear	Hydro	Geotherm. solar etc.	Biofuels & waste	Electricity	Heat	Total
Production	2.83	2.93	-	3.44	-	1.92	2.66	1.17	-	0.03	14.99
Imports	0.32	4.97	2.28	-	-	-	-	0.00	-	-	7.57
Exports	-1.80	-2.65	-0.21	-	-	-	-	-	-	-	-4.66
Intl. marine bunkers	-	-	-0.35	-	-	-	-	-	-	-	-0.35
Intl. aviation bunkers	-	-	-0.77	-	-	-	-	-	-	-	-0.77
Stock changes	0.43	0.06	0.00	-0.00	-	-	-	-	-	-	0.49
<b>TPES</b>	<b>1.78</b>	<b>5.30</b>	<b>0.96</b>	<b>3.44</b>	-	<b>1.92</b>	<b>2.66</b>	<b>1.17</b>	-	<b>0.03</b>	<b>17.26</b>
Transfers	-	-0.08	0.08	-	-	-	-	-	-	-	-0.00
Statistical differences	0.13	0.10	0.06	-0.08	-	-	-	-	-0.04	-	0.17
Electricity plants	-0.97	-	-0.03	-1.31	-	-1.92	-2.39	-0.04	3.50	-0.03	-3.19
CHP plants	-0.17	-	-	-0.50	-	-	-0.03	-0.10	0.27	-	-0.53
Heat plants	-	-	-	-	-	-	-	-	-	-	-
Blast furnaces	-0.12	-	-	-	-	-	-	-	-	-	-0.12
Gas works	-	-	-	-	-	-	-	-	-	-	-
Coke/pat. fuel/BKB plants	0.01	-	-	-	-	-	-	-	-	-	0.01
Oil refineries	-	-5.32	5.38	-	-	-	-	-	-	-	0.06
Petrochemical plants	-	-	-	-	-	-	-	-	-	-	-
Liquefaction plants	-	-	-	-	-	-	-	-	-	-	-
Other transformation	-	-	-	-	-	-	-	-	-	-	-
Energy industry own use	-0.05	-	-0.36	-0.24	-	-	-	-	-0.17	-	-0.82
Losses	-0.01	-	-	-0.02	-	-	-	-	-0.27	-	-0.29
<b>TFC</b>	<b>0.60</b>	-	<b>6.08</b>	<b>1.30</b>	-	-	<b>0.24</b>	<b>1.03</b>	<b>3.29</b>	-	<b>12.54</b>
<b>INDUSTRY</b>	<b>0.46</b>	-	<b>0.47</b>	<b>0.67</b>	-	-	<b>0.15</b>	<b>0.88</b>	<b>1.20</b>	-	<b>3.82</b>
Iron and steel	0.04	-	-	0.07	-	-	-	-	0.13	-	0.23
Chemical and petrochem.	-	-	-	0.25	-	-	-	-	0.04	-	0.29
Non-ferrous metals	-	-	-	0.00	-	-	-	-	0.42	-	0.42
Non-metallic minerals	-	-	-	0.03	-	-	-	-	0.02	-	0.06
Transport equipment	-	-	-	-	-	-	-	-	0.00	-	0.00
Machinery	-	-	-	0.01	-	-	-	-	0.02	-	0.03
Mining and quarrying	-	-	0.09	0.00	-	-	-	-	0.03	-	0.13
Food and tobacco	-	-	0.00	0.19	-	-	-	-	0.18	-	0.37
Paper, pulp and printing	-	-	-	0.07	-	-	0.15	-	0.17	-	0.38
Wood and wood products	-	-	-	0.03	-	-	-	0.88	0.12	-	1.02
Construction	-	-	0.09	0.00	-	-	-	-	0.02	-	0.11
Textile and leather	-	-	-	0.01	-	-	-	-	0.01	-	0.03
Non-specified	0.42	-	0.28	0.00	-	-	-	-	0.05	-	0.75
<b>TRANSPORT</b>	<b>0.00</b>	-	<b>4.65</b>	<b>0.00</b>	-	-	-	<b>0.00</b>	<b>0.01</b>	-	<b>4.67</b>
Domestic aviation	-	-	0.36	-	-	-	-	-	-	-	0.36
Road	-	-	4.15	0.00	-	-	-	0.00	-	-	4.16
Rail	-	-	0.05	-	-	-	-	-	-	-	0.05
Pipeline transport	-	-	-	-	-	-	-	-	-	-	-
Domestic navigation	-	-	0.09	-	-	-	-	-	-	-	0.09
Non-specified	0.00	-	-	-	-	-	-	-	0.01	-	0.01
<b>OTHER</b>	<b>0.15</b>	-	<b>0.63</b>	<b>0.25</b>	-	-	<b>0.09</b>	<b>0.15</b>	<b>2.08</b>	-	<b>3.35</b>
Residential	0.01	-	0.06	0.12	-	-	0.01	0.14	1.09	-	1.44
Comm. and public services	0.10	-	0.11	0.09	-	-	0.06	0.01	0.79	-	1.16
Agriculture/forestry	0.04	-	0.35	0.03	-	-	0.02	-	0.14	-	0.59
Fishing	-	-	0.10	-	-	-	-	-	0.01	-	0.11
Non-specified	-	-	-	-	-	-	-	-	0.05	-	0.05
<b>NON-ENERGY USE</b>	-	-	<b>0.32</b>	<b>0.38</b>	-	-	-	-	-	-	<b>0.71</b>
in industry/transf./energy	-	-	0.32	0.38	-	-	-	-	-	-	0.71
of which: feedstocks	-	-	-	0.38	-	-	-	-	-	-	0.38
in transport	-	-	-	-	-	-	-	-	-	-	-
in other	-	-	-	-	-	-	-	-	-	-	-
<b>Electricity and Heat Output</b>											
<b>Elec. generated - TWh</b>	<b>4.83</b>	-	<b>0.13</b>	<b>10.65</b>	-	<b>22.35</b>	<b>5.26</b>	<b>0.57</b>	-	<b>0.06</b>	<b>43.85</b>
Electricity plants	4.22	-	0.13	8.57	-	22.35	5.21	0.15	-	-	40.63
CHP plants	0.61	-	-	2.08	-	-	0.05	0.42	-	0.06	3.22
<b>Heat generated - PJ</b>	-	-	-	-	-	-	-	-	-	<b>1.44</b>	<b>1.44</b>
CHP plants	-	-	-	-	-	-	-	-	-	1.44	1.44
Heat plants	-	-	-	-	-	-	-	-	-	-	-

\* Includes crude oil, NGL, refinery feedstocks, additives and other hydrocarbons.

## New Zealand : 2009

Million tonnes of oil equivalent											
<b>SUPPLY AND CONSUMPTION</b>	Coal & peat	Crude oil*	Oil products	Natural gas	Nuclear	Hydro	Geotherm. solar etc.	Biofuels & waste	Electricity	Heat	Total
Production	2.64	2.72	-	3.55	-	2.08	3.10	1.09	-	0.04	15.21
Imports	0.36	4.89	2.22	-	-	-	-	-	-	-	7.48
Exports	-1.47	-2.35	-0.21	-	-	-	-	-	-	-	-4.03
Intl. marine bunkers	-	-	-0.34	-	-	-	-	-	-	-	-0.34
Intl. aviation bunkers	-	-	-0.74	-	-	-	-	-	-	-	-0.74
Stock changes	-0.07	-0.05	0.03	-0.09	-	-	-	-	-	-	-0.18
<b>TPES</b>	<b>1.46</b>	<b>5.21</b>	<b>0.97</b>	<b>3.46</b>	-	<b>2.08</b>	<b>3.10</b>	<b>1.09</b>	-	<b>0.04</b>	<b>17.40</b>
Transfers	-	-0.08	0.08	-	-	-	-	-	-	-	0.00
Statistical differences	0.04	0.09	-0.13	0.03	-	-	-	-	-0.05	-	-0.02
Electricity plants	-0.62	-	-0.00	-1.15	-	-2.08	-2.82	-0.04	3.52	-0.04	-3.24
CHP plants	-0.16	-	-	-0.39	-	-	-0.03	-0.11	0.22	-	-0.47
Heat plants	-	-	-	-	-	-	-	-	-	-	-
Blast furnaces	-0.14	-	-	-	-	-	-	-	-	-	-0.14
Gas works	-	-	-	-	-	-	-	-	-	-	-
Coke/pat. fuel/BKB plants	0.01	-	-	-	-	-	-	-	-	-	0.01
Oil refineries	-	-5.22	5.25	-	-	-	-	-	-	-	0.03
Petrochemical plants	-	-	-	-	-	-	-	-	-	-	-
Liquefaction plants	-	-	-	-	-	-	-	-	-	-	-
Other transformation	-	-	-	-	-	-	-	-	-	-	-
Energy industry own use	-0.05	-	-0.35	-0.23	-	-	-	-	-0.16	-	-0.79
Losses	-0.01	-	-	-0.02	-	-	-	-	-0.27	-	-0.29
<b>TFC</b>	<b>0.53</b>	-	<b>5.81</b>	<b>1.70</b>	-	-	<b>0.24</b>	<b>0.95</b>	<b>3.26</b>	-	<b>12.49</b>
<b>INDUSTRY</b>	<b>0.45</b>	-	<b>0.39</b>	<b>0.86</b>	-	-	<b>0.15</b>	<b>0.80</b>	<b>1.15</b>	-	<b>3.79</b>
Iron and steel	0.04	-	-	0.06	-	-	-	-	0.12	-	0.21
Chemical and petrochem.	-	-	-	0.38	-	-	-	-	0.04	-	0.42
Non-ferrous metals	-	-	-	0.01	-	-	-	-	0.36	-	0.37
Non-metallic minerals	0.02	-	-	0.03	-	-	-	-	0.02	-	0.08
Transport equipment	-	-	-	-	-	-	-	-	0.00	-	0.00
Machinery	0.00	-	-	0.01	-	-	-	-	0.02	-	0.03
Mining and quarrying	0.00	-	0.10	0.00	-	-	-	-	0.03	-	0.14
Food and tobacco	0.25	-	-	0.24	-	-	-	-	0.18	-	0.67
Paper, pulp and printing	-	-	-	0.07	-	-	0.15	-	0.17	-	0.39
Wood and wood products	0.02	-	-	0.04	-	-	-	0.80	0.12	-	0.98
Construction	-	-	0.10	0.00	-	-	-	-	0.02	-	0.12
Textile and leather	0.00	-	-	0.01	-	-	-	-	0.01	-	0.02
Non-specified	0.11	-	0.19	0.01	-	-	-	-	0.05	-	0.36
<b>TRANSPORT</b>	<b>0.00</b>	-	<b>4.56</b>	<b>0.00</b>	-	-	-	<b>0.00</b>	<b>0.01</b>	-	<b>4.57</b>
Domestic aviation	-	-	0.33	-	-	-	-	-	-	-	0.33
Road	-	-	4.09	0.00	-	-	-	0.00	-	-	4.09
Rail	-	-	0.05	-	-	-	-	-	-	-	0.05
Pipeline transport	-	-	-	-	-	-	-	-	-	-	-
Domestic navigation	-	-	0.09	-	-	-	-	-	-	-	0.09
Non-specified	0.00	-	-	-	-	-	-	-	0.01	-	0.01
<b>OTHER</b>	<b>0.08</b>	-	<b>0.57</b>	<b>0.32</b>	-	-	<b>0.09</b>	<b>0.15</b>	<b>2.10</b>	-	<b>3.31</b>
Residential	0.02	-	0.06	0.15	-	-	0.01	0.14	1.10	-	1.49
Comm. and public services	0.05	-	0.10	0.13	-	-	0.06	0.01	0.79	-	1.14
Agriculture/forestry	0.02	-	0.30	0.04	-	-	0.02	-	0.14	-	0.52
Fishing	-	-	0.10	-	-	-	-	-	0.01	-	0.11
Non-specified	-	-	-	-	-	-	-	-	0.05	-	0.05
<b>NON-ENERGY USE</b>	-	-	<b>0.29</b>	<b>0.53</b>	-	-	-	-	-	-	<b>0.82</b>
in industry/transf./energy	-	-	0.29	0.53	-	-	-	-	-	-	0.82
<i>of which: feedstocks</i>	-	-	-	0.53	-	-	-	-	-	-	0.53
in transport	-	-	-	-	-	-	-	-	-	-	-
in other	-	-	-	-	-	-	-	-	-	-	-
<b>Electricity and Heat Output</b>											
<b>Elec. generated - TWh</b>	<b>3.30</b>	-	<b>0.01</b>	<b>8.97</b>	-	<b>24.22</b>	<b>6.33</b>	<b>0.59</b>	-	<b>0.06</b>	<b>43.47</b>
Electricity plants	2.71	-	0.01	7.48	-	24.22	6.28	0.15	-	-	40.84
CHP plants	0.59	-	-	1.49	-	-	0.05	0.44	-	0.06	2.63
<b>Heat generated - PJ</b>	-	-	-	-	-	-	-	-	-	<b>1.52</b>	<b>1.52</b>
CHP plants	-	-	-	-	-	-	-	-	-	1.52	1.52
Heat plants	-	-	-	-	-	-	-	-	-	-	-

\* Includes crude oil, NGL, refinery feedstocks, additives and other hydrocarbons.

## New Zealand

## Estimated energy supply balance for 2010

Million tonnes of oil equivalent											
SUPPLY	Coal & peat	Crude oil*	Oil products	Natural gas	Nuclear	Hydro	Geotherm. solar etc.	Biofuels & waste	Electricity	Heat	Total
Production	3.11	2.65	-	3.70	-	2.13	3.76	1.18	-	0.03	16.56
Imports	0.13	5.19	1.77	-	-	-	-	-	-	-	7.10
Exports	-1.70	-2.36	-0.12	-	-	-	-	-	-	-	-4.17
Intl. marine bunkers	-	-	-0.28	-	-	-	-	-	-	-	-0.28
Intl. aviation bunkers	-	-	-0.72	-	-	-	-	-	-	-	-0.72
Stock changes	0.02	-0.05	-0.01	-0.13	-	-	-	0.00	-	-	-0.16
<b>TPES</b>	<b>1.57</b>	<b>5.44</b>	<b>0.64</b>	<b>3.57</b>	<b>-</b>	<b>2.13</b>	<b>3.76</b>	<b>1.18</b>	<b>-</b>	<b>0.03</b>	<b>18.31</b>
Electricity and Heat Output											
Elec. generated - TWh	2.07	-	0.00	9.85	-	24.72	7.52	0.61	-	0.06	44.82
Heat generated - PJ	-	-	-	-	-	-	-	-	-	1.41	1.41

\* Includes crude oil, NGL, refinery feedstocks, additives and other hydrocarbons.

## Key indicators

	1960	1971	1980	1990	2000	2008	2009	2010e
Energy production (Mtoe)	2.5	3.4	5.5	11.5	14.1	15.0	15.2	16.6
Net imports (Mtoe)	1.8	4.1	4.2	2.1	3.4	2.9	3.5	2.9
Total primary energy supply (Mtoe)	4.1	6.9	9.0	12.8	16.8	17.3	17.4	18.3
Net oil imports (Mtoe)	1.9	4.1	4.3	2.4	4.5	4.4	4.6	4.5
Oil supply (Mtoe)	1.7	3.5	4.0	3.6	5.7	6.3	6.2	6.1
Electricity consumption (TWh)*	5.8	13.4	19.8	29.9	36.2	40.7	40.3	41.7
GDP (billion 2000 USD)	19.1 e	28.3	32.5	39.7	53.4	67.0	67.5	69.2
GDP PPP (billion 2000 USD)	29.1 e	43.2	49.5	60.5	81.4	102.1	102.9	105.4
Population (millions)	2.38 e	2.86	3.14	3.37	3.87	4.28	4.33	4.37
Industrial production index (2005=100)	..	..	64.90	73.00	88.00	96.80	88.90	90.10
Total self-sufficiency**	0.6055	0.4943	0.6089	0.8935	0.8394	0.8686	0.8743	0.9040
Coal and peat self-sufficiency**	1.0186	1.0160	1.1202	1.1880	1.9728	1.5953	1.8093	1.9882
Oil self-sufficiency**	..	..	0.0922	0.5536	0.3423	0.4686	0.4405	0.4361
Natural gas self-sufficiency**	1.0000	1.0000	1.0033	0.9999	0.9998	1.0002	1.0254	1.0353
TPES/GDP (toe per thousand 2000 USD)	0.2153 e	0.2439	0.2765	0.3229	0.3151	0.2577	0.2579	0.2648
TPES/GDP PPP (toe per thousand 2000 USD)	0.1412 e	0.1600	0.1814	0.2119	0.2067	0.1691	0.1692	0.1737
TPES/population (toe per capita)	1.7278 e	2.4134	2.8578	3.8024	4.3485	4.0311	4.0173	4.1897
Net oil imports/GDP (toe per thousand 2000 USD)	0.0967 e	0.1430	0.1313	0.0593	0.0835	0.0655	0.0675	0.0649
Oil supply/GDP (toe per thousand 2000 USD)	0.0865 e	0.1239	0.1234	0.0894	0.1064	0.0935	0.0915	0.0880
Oil supply/population (toe per capita)	0.6939 e	1.2264	1.2749	1.0526	1.4683	1.4619	1.4253	1.3919
Elect. cons./GDP (kWh per 2000 USD)	0.3055 e	0.4726	0.6077	0.7522	0.6781	0.6082	0.5977	0.6027
Elect. cons./population (kWh per capita)	2452 e	4676	6281	8857	9359	9512	9311	9537
Industry cons.***/industrial production (2005=100)	..	..	92.81	137.73	146.18	107.31	119.01	..
Industry oil cons.***/industrial production (2005=100)	..	..	179.01	115.73	102.60	115.84	108.41	..

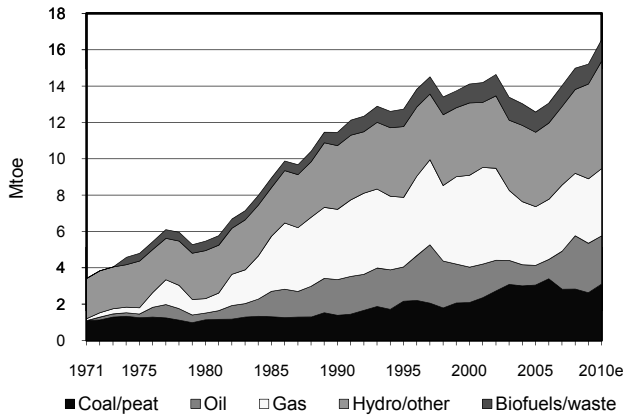
\* Electricity consumption equals domestic supply less losses.

\*\* Production divided by TPES.

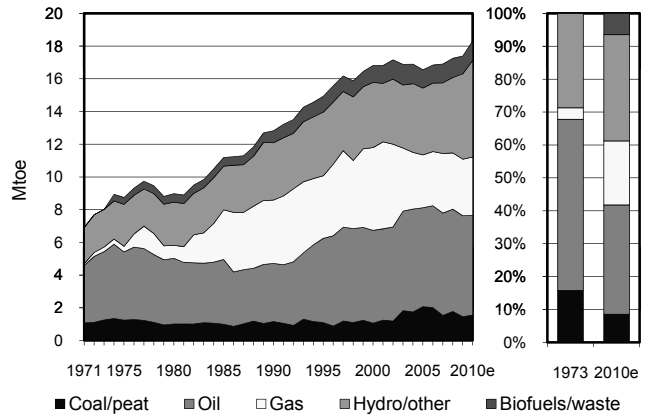
\*\*\* Includes non-energy use.

## New Zealand

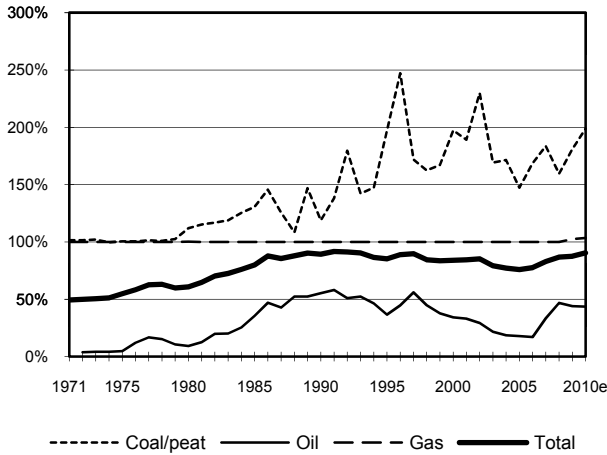
**Figure 1. Energy production**



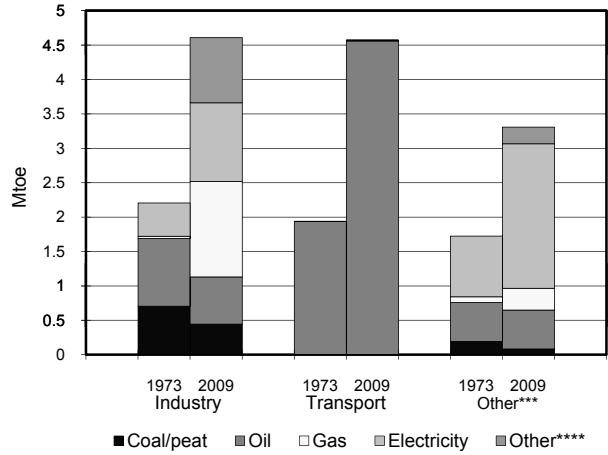
**Figure 2. Total primary energy supply\***



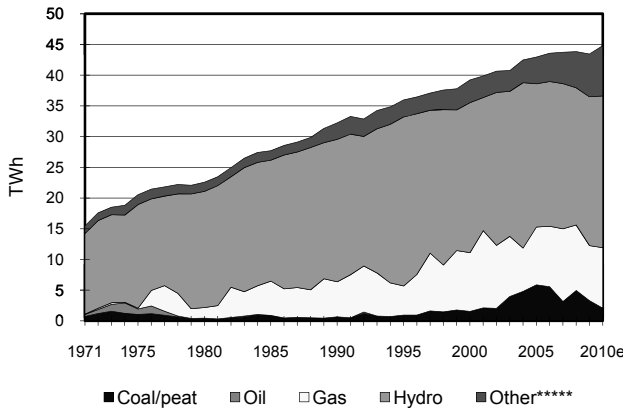
**Figure 3. Energy self-sufficiency**



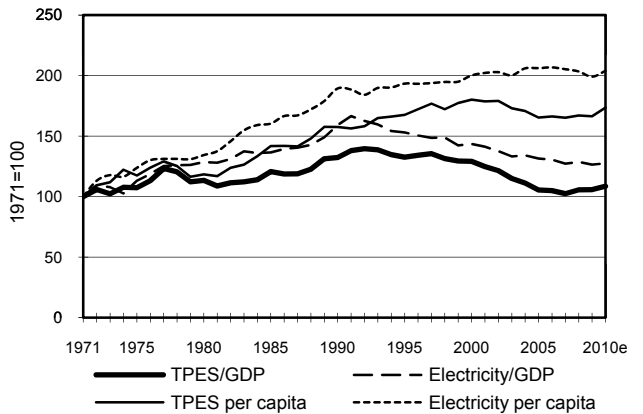
**Figure 4. Breakdown of sectorial final consumption by source in 1973 and 2009\*\***



**Figure 5. Electricity generation by fuel**



**Figure 6. Selected indicators**



\* Excluding electricity trade.  
 \*\* Includes non-energy use.  
 \*\*\* Includes residential, commercial and public services, agriculture/forestry, fishing and non-specified.  
 \*\*\*\* Includes biofuels and waste, direct use of geothermal/solar thermal and heat produced in CHP/heat plants.  
 \*\*\*\*\* Includes geothermal, solar, wind, biofuels and waste, etc.

## Norway : 2008

Million tonnes of oil equivalent

SUPPLY AND CONSUMPTION	Coal & peat	Crude oil*	Oil products	Natural gas	Nuclear	Hydro	Geotherm. solar etc.	Biofuels & waste	Electricity	Heat	Total
Production	2.30	116.16	-	87.10	-	11.96	0.08	1.34	-	0.05	218.99
Imports	0.74	0.87	4.24	-	-	-	-	0.11	0.29	-	6.25
Exports	-2.25	-92.29	-15.89	-82.24	-	-	-	-0.00	-1.49	-	-194.16
Intl. marine bunkers	-	-	-0.48	-	-	-	-	-	-	-	-0.48
Intl. aviation bunkers	-	-	-0.38	-	-	-	-	-	-	-	-0.38
Stock changes	0.06	-0.52	0.03	-	-	-	-	-	-	-	-0.42
<b>TPES</b>	<b>0.86</b>	<b>24.21</b>	<b>-12.48</b>	<b>4.86</b>	<b>-</b>	<b>11.96</b>	<b>0.08</b>	<b>1.46</b>	<b>-1.19</b>	<b>0.05</b>	<b>29.80</b>
Transfers	-	-7.67	8.16	-	-	-	-	-	-	-	0.49
Statistical differences	-0.10	-1.23	-1.77	0.07	-	-	-	-	-	-	-3.02
Electricity plants	-0.01	-	-0.00	-0.06	-	-11.96	-0.08	-0.05	12.13	-0.06	-0.09
CHP plants	-0.01	-	-	-	-	-	-	-0.10	0.01	0.08	-0.02
Heat plants	-0.00	-	-0.02	-0.02	-	-	-	-0.16	-0.06	0.22	-0.03
Blast furnaces	-0.07 e	-	-	-	-	-	-	-	-	-	-0.07
Gas works	-	-	-	-	-	-	-	-	-	-	-
Coke/pat. fuel/BKB plants	-	-	-	-	-	-	-	-	-	-	-
Oil refineries	-	-15.36	15.36	-	-	-	-	-	-	-	-0.00
Petrochemical plants	-	0.05	-0.05	-	-	-	-	-	-	-	-0.01
Liquefaction plants	-	-	-	-	-	-	-	-	-	-	-
Other transformation	-	-	-	-	-	-	-	-	-	-	-
Energy industry own use	-	-	-0.80	-4.00	-	-	-	-	-0.42	-0.01	-5.23
Losses	-0.01	-	-	-	-	-	-	-0.01	-0.83	-0.03	-0.87
<b>TFC</b>	<b>0.66</b>	<b>-</b>	<b>8.40</b>	<b>0.85</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1.15</b>	<b>9.63</b>	<b>0.26</b>	<b>20.96</b>
<b>INDUSTRY</b>	<b>0.66</b>	<b>-</b>	<b>0.99</b>	<b>0.21</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.43</b>	<b>4.36</b>	<b>0.03</b>	<b>6.67</b>
Iron and steel	0.30 e	-	0.02	0.00	-	-	-	-	0.45	0.00	0.76
Chemical and petrochem.	0.22	-	0.40	0.08	-	-	-	0.01	0.68	0.01	1.40
Non-ferrous metals	-	-	0.05	0.05	-	-	-	-	1.98	0.00	2.07
Non-metallic minerals	0.15	-	0.07	0.03	-	-	-	0.04	0.08	0.00	0.36
Transport equipment	-	-	0.02	0.00	-	-	-	-	0.06	0.00	0.08
Machinery	-	-	0.02	0.00	-	-	-	0.00	0.11	0.00	0.14
Mining and quarrying	-	-	0.06	0.00	-	-	-	0.00	0.04	0.00	0.10
Food and tobacco	-	-	0.10	0.03	-	-	-	0.00	0.25	0.00	0.38
Paper, pulp and printing	-	-	0.09	0.00	-	-	-	0.31	0.49	-	0.90
Wood and wood products	-	-	0.01	-	-	-	-	0.07	0.06	0.00	0.15
Construction	-	-	0.15	0.00	-	-	-	0.00	0.09	-	0.25
Textile and leather	-	-	0.00	0.00	-	-	-	-	0.01	-	0.02
Non-specified	-	-	0.00	0.00	-	-	-	0.00	0.05	0.00	0.06
<b>TRANSPORT</b>	<b>-</b>	<b>-</b>	<b>4.55</b>	<b>0.05</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.08</b>	<b>0.06</b>	<b>-</b>	<b>4.74</b>
Domestic aviation	-	-	0.34	-	-	-	-	-	-	-	0.34
Road	-	-	3.40	0.00	-	-	-	0.08	-	-	3.49
Rail	-	-	0.01	-	-	-	-	-	0.05	-	0.07
Pipeline transport	-	-	-	-	-	-	-	-	-	-	-
Domestic navigation	-	-	0.79	-	-	-	-	-	-	-	0.79
Non-specified	-	-	-	0.04	-	-	-	-	0.01	-	0.05
<b>OTHER</b>	<b>0.00</b>	<b>-</b>	<b>0.96</b>	<b>0.04</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.63</b>	<b>5.22</b>	<b>0.24</b>	<b>7.08</b>
Residential	-	-	0.17	0.00	-	-	-	0.61	3.00	0.06	3.84
Comm. and public services	0.00	-	0.21	0.02	-	-	-	0.03	2.03	0.17	2.47
Agriculture/forestry	-	-	0.15	0.02	-	-	-	0.00	0.17	0.00	0.34
Fishing	-	-	0.39	0.00	-	-	-	-	0.02	-	0.41
Non-specified	-	-	0.04	-	-	-	-	-	-	-	0.04
<b>NON-ENERGY USE</b>	<b>-</b>	<b>-</b>	<b>1.90</b>	<b>0.56</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>2.46</b>
in industry/transf./energy	-	-	1.90	0.56	-	-	-	-	-	-	2.46
of which: feedstocks	-	-	0.98	0.56	-	-	-	-	-	-	1.54
in transport	-	-	-	-	-	-	-	-	-	-	-
in other	-	-	-	-	-	-	-	-	-	-	-
<b>Electricity and Heat Output</b>											
<b>Elec. generated - TWh</b>	<b>0.13</b>	<b>-</b>	<b>0.03</b>	<b>0.44</b>	<b>-</b>	<b>139.02</b>	<b>0.96</b>	<b>0.46</b>	<b>-</b>	<b>0.13</b>	<b>141.17</b>
Electricity plants	0.09	-	0.03	0.44	-	139.02	0.96	0.35	-	0.13	141.01
CHP plants	0.04	-	-	-	-	-	-	0.12	-	-	0.15
<b>Heat generated - PJ</b>	<b>0.25</b>	<b>-</b>	<b>0.64</b>	<b>0.63</b>	<b>-</b>	<b>-</b>	<b>0.38</b>	<b>8.59</b>	<b>1.96</b>	<b>2.58</b>	<b>15.02</b>
CHP plants	0.23	-	-	-	-	-	-	3.30	-	-	3.54
Heat plants	0.01	-	0.64	0.63	-	-	0.38	5.28	1.96	2.58	11.49

\* Includes crude oil, NGL, refinery feedstocks, additives and other hydrocarbons.

## Norway : 2009

Million tonnes of oil equivalent											
<b>SUPPLY AND CONSUMPTION</b>	Coal & peat	Crude oil*	Oil products	Natural gas	Nuclear	Hydro	Geotherm. solar etc.	Biofuels & waste	Electricity	Heat	Total
Production	1.77	108.91	-	90.66	-	10.86	0.08	1.31	-	0.04	213.64
Imports	0.47	1.00	4.76	-	-	-	-	0.12	0.49	-	6.83
Exports	-1.61	-88.14	-16.16	-85.17	-	-	-	-0.00	-1.26	-	-192.35
Intl. marine bunkers	-	-	-0.49	-	-	-	-	-	-	-	-0.49
Intl. aviation bunkers	-	-	-0.36	-	-	-	-	-	-	-	-0.36
Stock changes	-0.08	0.95	0.09	-	-	-	-	-	-	-	0.97
<b>TPES</b>	<b>0.56</b>	<b>22.72</b>	<b>-12.16</b>	<b>5.49</b>	<b>-</b>	<b>10.86</b>	<b>0.08</b>	<b>1.43</b>	<b>-0.77</b>	<b>0.04</b>	<b>28.24</b>
Transfers	-	-7.99	8.50	-	-	-	-	-	-	-	0.52
Statistical differences	-0.01	0.57	-2.51	-0.41	-	-	-	-	-	-	-2.36
Electricity plants	-0.01	-	-0.00	-0.65	-	-10.86	-0.08	-0.02	11.34	-0.03	-0.33
CHP plants	-0.02	-	-	-0.00	-	-	-	-0.08	0.01	0.07	-0.02
Heat plants	-0.00	-	-0.03	-0.02	-	-	-	-0.20	-0.07	0.28	-0.05
Blast furnaces	-0.05	-	-	-	-	-	-	-	-	-	-0.05
Gas works	-	-	-	-	-	-	-	-	-	-	-
Coke/pat. fuel/BKB plants	-	-	-	-	-	-	-	-	-	-	-
Oil refineries	-	-15.35	15.35	-	-	-	-	-	-	-	-0.00
Petrochemical plants	-	0.05	-0.05	-	-	-	-	-	-	-	-0.01
Liquefaction plants	-	-	-	-	-	-	-	-	-	-	-
Other transformation	-	-	-	-	-	-	-	-	-	-	-
Energy industry own use	-	-	-0.88	-3.71	-	-	-	-	-0.58	-0.01	-5.17
Losses	-0.00	-	-	-	-	-	-	-0.01	-0.87	-0.05	-0.93
<b>TFC</b>	<b>0.47</b>	<b>-</b>	<b>8.21</b>	<b>0.70</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1.12</b>	<b>9.06</b>	<b>0.30</b>	<b>19.85</b>
<b>INDUSTRY</b>	<b>0.47</b>	<b>-</b>	<b>0.90</b>	<b>0.21</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.36</b>	<b>3.62</b>	<b>0.03</b>	<b>5.59</b>
Iron and steel	0.20	-	0.01	0.00	-	-	-	0.01	0.32	0.00	0.54
Chemical and petrochem.	0.14	-	0.39	0.10	-	-	-	0.01	0.57	0.01	1.21
Non-ferrous metals	-	-	0.04	0.04	-	-	-	-	1.65	0.00	1.73
Non-metallic minerals	0.13	-	0.03	0.02	-	-	-	0.04	0.05	0.00	0.27
Transport equipment	-	-	0.02	0.00	-	-	-	0.00	0.06	0.00	0.08
Machinery	-	-	0.02	0.00	-	-	-	0.00	0.10	0.00	0.13
Mining and quarrying	-	-	0.05	0.00	-	-	-	0.00	0.04	0.00	0.09
Food and tobacco	-	-	0.08	0.04	-	-	-	0.00	0.22	0.00	0.35
Paper, pulp and printing	-	-	0.09	0.00	-	-	-	0.23	0.42	0.00	0.75
Wood and wood products	-	-	0.01	0.00	-	-	-	0.07	0.05	0.00	0.14
Construction	-	-	0.15	0.00	-	-	-	0.00	0.08	-	0.24
Textile and leather	-	-	0.00	0.00	-	-	-	-	0.01	0.00	0.01
Non-specified	-	-	0.00	0.00	-	-	-	0.00	0.04	0.00	0.05
<b>TRANSPORT</b>	<b>-</b>	<b>-</b>	<b>4.45</b>	<b>0.05</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.09</b>	<b>0.06</b>	<b>-</b>	<b>4.65</b>
Domestic aviation	-	-	0.35	-	-	-	-	-	-	-	0.35
Road	-	-	3.30	0.00	-	-	-	0.09	-	-	3.40
Rail	-	-	0.02	-	-	-	-	-	0.05	-	0.06
Pipeline transport	-	-	-	-	-	-	-	-	-	-	-
Domestic navigation	-	-	0.78	-	-	-	-	-	-	-	0.78
Non-specified	-	-	-	0.05	-	-	-	-	0.01	-	0.05
<b>OTHER</b>	<b>0.00</b>	<b>-</b>	<b>1.08</b>	<b>0.04</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.66</b>	<b>5.38</b>	<b>0.27</b>	<b>7.43</b>
Residential	-	-	0.17	0.00	-	-	-	0.63	3.13	0.06	3.99
Comm. and public services	0.00	-	0.24	0.02	-	-	-	0.03	2.08	0.20	2.57
Agriculture/forestry	-	-	0.15	0.01	-	-	-	0.00	0.16	0.00	0.33
Fishing	-	-	0.45	0.00	-	-	-	-	0.02	-	0.46
Non-specified	-	-	0.08	-	-	-	-	-	-	-	0.08
<b>NON-ENERGY USE</b>	<b>-</b>	<b>-</b>	<b>1.77</b>	<b>0.40</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>2.17</b>
in industry/transf./energy	-	-	1.77	0.40	-	-	-	-	-	-	2.17
of which: feedstocks	-	-	0.94	0.40	-	-	-	-	-	-	1.34
in transport	-	-	-	-	-	-	-	-	-	-	-
in other	-	-	-	-	-	-	-	-	-	-	-
<b>Electricity and Heat Output</b>											
<b>Elec. generated - TWh</b>	<b>0.10</b>	<b>-</b>	<b>0.03</b>	<b>4.24</b>	<b>-</b>	<b>126.24</b>	<b>0.99</b>	<b>0.29</b>	<b>-</b>	<b>0.07</b>	<b>131.95</b>
Electricity plants	0.06	-	0.03	4.24	-	126.24	0.99	0.19	-	0.07	131.81
CHP plants	0.04	-	-	0.00	-	-	-	0.10	-	-	0.14
<b>Heat generated - PJ</b>	<b>0.25</b>	<b>-</b>	<b>1.22</b>	<b>0.63</b>	<b>-</b>	<b>-</b>	<b>0.05</b>	<b>9.18</b>	<b>2.52</b>	<b>2.12</b>	<b>15.97</b>
CHP plants	0.23	-	-	0.01	-	-	-	2.52	0.03	0.04	2.83
Heat plants	0.02	-	1.22	0.62	-	-	0.05	6.66	2.49	2.09	13.14

\* Includes crude oil, NGL, refinery feedstocks, additives and other hydrocarbons.



## Norway

## Estimated energy supply balance for 2010

Million tonnes of oil equivalent											
SUPPLY	Coal & peat	Crude oil*	Oil products	Natural gas	Nuclear	Hydro	Geotherm. solar etc.	Biofuels & waste	Electricity	Heat	Total
Production	1.30	101.08	-	91.14	-	10.11	0.08	1.35	-	0.04	205.09
Imports	0.75	0.57	4.73	0.01	-	-	-	0.14	1.26	-	7.46
Exports	-1.11	-79.68	-13.75	-85.67	-	-	-	-0.00	-0.61	-	-180.83
Intl. marine bunkers	-	-	-0.44	-	-	-	-	-	-	-	-0.44
Intl. aviation bunkers	-	-	-0.41	-	-	-	-	-	-	-	-0.41
Stock changes	-0.11	-0.15	0.32	-	-	-	-	-0.01	-	-	0.06
<b>TPES</b>	<b>0.84</b>	<b>21.81</b>	<b>-9.54</b>	<b>5.47</b>	<b>-</b>	<b>10.11</b>	<b>0.08</b>	<b>1.49</b>	<b>0.65</b>	<b>0.04</b>	<b>30.94</b>
Electricity and Heat Output											
Elec. generated - TWh	0.12	-	0.03	4.89	-	117.54	0.92	0.43	-	0.13	124.05
Heat generated - PJ	0.25	-	1.22	0.63	-	-	0.05	9.18	2.52	2.12	15.97

\* Includes crude oil, NGL, refinery feedstocks, additives and other hydrocarbons.

## Key indicators

	1960	1971	1980	1990	2000	2008	2009	2010e
Energy production (Mtoe)	3.0	6.0	55.0	119.1	227.0	219.0	213.6	205.1
Net imports (Mtoe)	4.2	7.8	-35.8	-95.4	-199.6	-187.9	-185.5	-173.4
Total primary energy supply (Mtoe)	6.8	13.3	18.3	21.0	25.9	29.8	28.2	30.9
Net oil imports (Mtoe)	3.7	7.5	-14.6	-72.5	-156.4	-103.1	-98.6	-88.1
Oil supply (Mtoe)	3.3	7.2	8.7	8.1	9.0	11.7	10.6	12.3
Electricity consumption (TWh)*	27.5	55.0	76.5	99.1	112.3 e	118.6	113.7	121.9
GDP (billion 2000 USD)	38.3 e	61.0	91.2	117.0	168.3	198.8	196.0	196.8
GDP PPP (billion 2000 USD)	36.9 e	58.8	88.0	112.8	162.2	191.7	188.9	189.8
Population (millions)	3.58 e	3.90	4.09	4.24	4.49	4.77	4.83	4.84
Industrial production index (2005=100)	16.80	29.70	48.00	74.20	104.50	97.10	93.30	88.10
Total self-sufficiency**	0.4346	0.4534	3.0011	5.6693	8.7742	7.3489	7.5637	6.6295
Coal and peat self-sufficiency**	0.3585	0.3242	0.2005	0.2357	0.3945	2.6789	3.1584	1.5479
Oil self-sufficiency**	..	0.0399	2.7828	10.3253	18.6485	9.8991	10.3155	8.2396
Natural gas self-sufficiency**	..	..	26.2068	12.2201	11.1669	17.9318	16.5126	16.6636
TPES/GDP (toe per thousand 2000 USD)	0.1782 e	0.2181	0.2008	0.1796	0.1537	0.1499	0.1441	0.1572
TPES/GDP PPP (toe per thousand 2000 USD)	0.1849 e	0.2262	0.2083	0.1863	0.1594	0.1555	0.1495	0.1630
TPES/population (toe per capita)	1.9052 e	3.4071	4.4827	4.9523	5.7595	6.2483	5.8514	6.3889
Net oil imports/GDP (toe per thousand 2000 USD)	0.0965 e	0.1223	-0.1602	-0.6198	-0.9293	-0.5185	-0.5029	-0.4478
Oil supply/GDP (toe per thousand 2000 USD)	0.0873 e	0.1176	0.0954	0.0689	0.0532	0.0590	0.0539	0.0623
Oil supply/population (toe per capita)	0.9336 e	1.8371	2.1308	1.9013	1.9932	2.4605	2.1873	2.5336
Elect. cons./GDP (kWh per 2000 USD)	0.7181 e	0.9016	0.8386	0.8469	0.6670 e	0.5964	0.5803	0.6194
Elect. cons./population (kWh per capita)	7677 e	14085	18724	23357	24994 e	24862	23558	25181
Industry cons.***/industrial production (2005=100)	208.51	230.12	184.97	117.71	95.79	104.34	92.38	..
Industry oil cons.***/industrial production (2005=100)	252.62	343.56	270.88	136.78	85.34	109.12	105.27	..

\* Electricity consumption equals domestic supply less losses.

\*\* Production divided by TPES.

\*\*\* Includes non-energy use.

Norway

Figure 1. Energy production

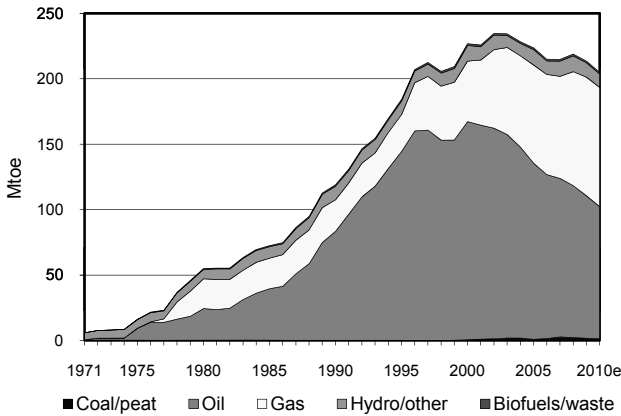


Figure 2. Total primary energy supply\*

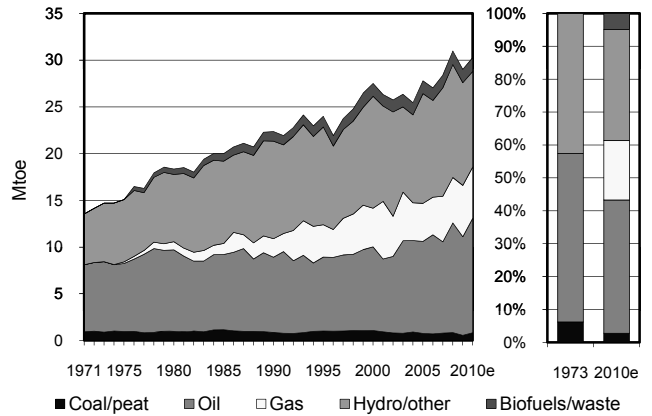


Figure 3. Energy self-sufficiency

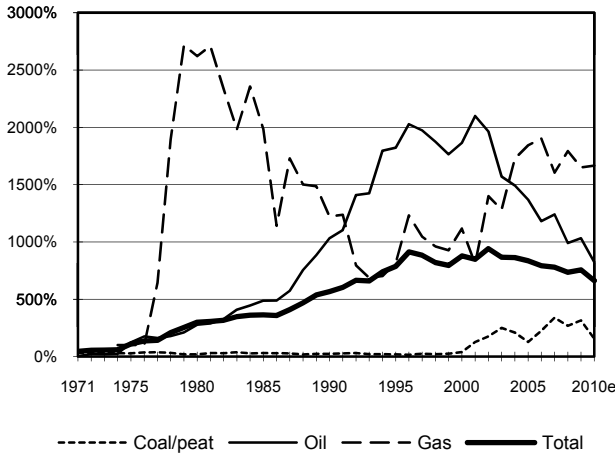


Figure 4. Breakdown of sectorial final consumption by source in 1973 and 2009\*\*

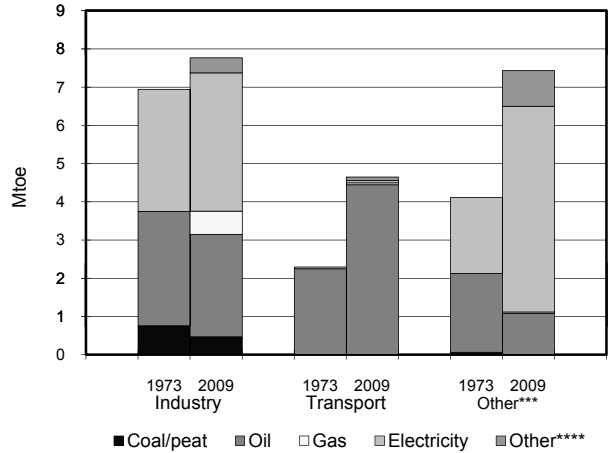


Figure 5. Electricity generation by fuel

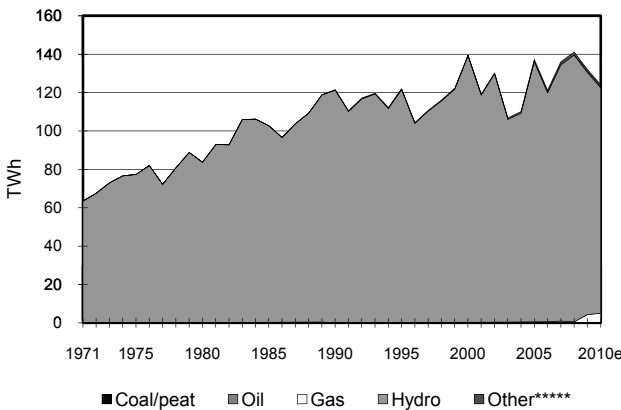
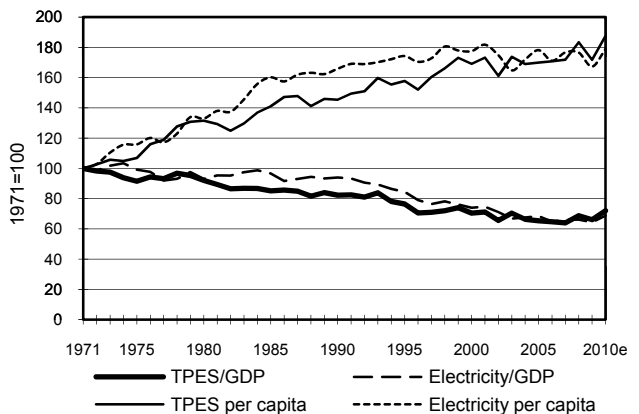


Figure 6. Selected indicators



\* Excluding electricity trade.  
 \*\* Includes non-energy use.  
 \*\*\* Includes residential, commercial and public services, agriculture/forestry, fishing and non-specified.  
 \*\*\*\* Includes biofuels and waste, direct use of geothermal/solar thermal and heat produced in CHP/heat plants.  
 \*\*\*\*\* Includes geothermal, solar, wind, biofuels and waste, etc.

## Poland : 2008

Million tonnes of oil equivalent											
SUPPLY AND CONSUMPTION	Coal & peat	Crude oil*	Oil products	Natural gas	Nuclear	Hydro	Geotherm. solar etc.	Biofuels & waste	Electricity	Heat	Total
Production	60.91	0.79	-	3.69	-	0.19	0.09	5.70	-	-	71.36
Imports	6.49	22.11	5.85	9.15	-	-	-	0.16	0.78	-	44.54
Exports	-10.07	-0.25	-3.02	-0.03	-	-	-	-	-0.83	-	-14.20
Intl. marine bunkers	-	-	-0.27	-	-	-	-	-	-	-	-0.27
Intl. aviation bunkers	-	-	-0.54	-	-	-	-	-	-	-	-0.54
Stock changes	-2.60	-0.26	0.13	-0.27	-	-	-	-0.00	-	-	-3.00
<b>TPES</b>	<b>54.74</b>	<b>22.38</b>	<b>2.16</b>	<b>12.54</b>	-	<b>0.19</b>	<b>0.09</b>	<b>5.86</b>	<b>-0.06</b>	-	<b>97.88</b>
Transfers	-	0.07	-0.03	-	-	-	-	-	-	-	0.05
Statistical differences	-1.25	-0.24	-0.02	-0.15	-	-	-	-0.00	-	-	-1.66
Electricity plants	-	-	-	-	-	-0.19	-0.07	-	0.26	-	-
CHP plants	-35.51	-	-0.51	-0.96	-	-	-	-1.06	13.05	4.79	-20.20
Heat plants	-2.92	-	-0.03	-0.25	-	-	-	-0.05	-	2.67	-0.59
Blast furnaces	-1.02 e	-	-	-	-	-	-	-	-	-	-1.02
Gas works	0.00	-	-0.00	-	-	-	-	-	-	-	-0.00
Coke/pat. fuel/BKB plants	-0.58	-	-	-	-	-	-	-	-	-	-0.58
Oil refineries	-	-22.80	22.25	-	-	-	-	-	-	-	-0.55
Petrochemical plants	-	0.59	-0.62	-	-	-	-	-	-	-	-0.03
Liquefaction plants	-	-	-	-	-	-	-	-	-	-	-
Other transformation	-	-	-	-0.25	-	-	-	-	-	-	-0.25
Energy industry own use	-1.34	-	-1.19	-0.67	-	-	-	-0.00	-2.05	-1.07	-6.32
Losses	-0.05	-	-	-0.06	-	-	-	-	-1.08	-	-1.19
<b>TFC</b>	<b>12.06</b>	-	<b>22.01</b>	<b>10.21</b>	-	-	<b>0.01</b>	<b>4.74</b>	<b>10.12</b>	<b>6.39</b>	<b>65.55</b>
<b>INDUSTRY</b>	<b>4.41</b>	-	<b>1.24</b>	<b>3.03</b>	-	-	-	<b>1.26</b>	<b>3.81</b>	<b>1.58</b>	<b>15.33</b>
Iron and steel	0.93 e	-	0.00	0.49	-	-	-	0.02	0.58	0.17	2.19
Chemical and petrochem.	1.14	-	0.56	0.19	-	-	-	0.17	0.73	0.86	3.65
Non-ferrous metals	0.16	-	0.01	0.16	-	-	-	0.03	0.25	0.06	0.67
Non-metallic minerals	0.99	-	0.16	0.95	-	-	-	0.19	0.35	0.03	2.66
Transport equipment	0.03	-	0.02	0.11	-	-	-	0.00	0.21	0.09	0.45
Machinery	0.07	-	0.03	0.21	-	-	-	0.00	0.33	0.09	0.74
Mining and quarrying	0.01	-	0.07	0.03	-	-	-	-	0.12	0.08	0.32
Food and tobacco	0.66	-	0.18	0.49	-	-	-	0.01	0.44	0.06	1.83
Paper, pulp and printing	0.19	-	0.05	0.12	-	-	-	0.47	0.27	0.08	1.18
Wood and wood products	0.11	-	0.03	0.11	-	-	-	0.30	0.16	0.00	0.71
Construction	0.01	-	0.10	0.03	-	-	-	0.00	0.06	0.01	0.22
Textile and leather	0.03	-	0.01	0.05	-	-	-	0.00	0.07	0.01	0.17
Non-specified	0.09	-	0.02	0.10	-	-	-	0.05	0.24	0.04	0.55
<b>TRANSPORT</b>	-	-	<b>14.58</b>	<b>0.33</b>	-	-	-	<b>0.44</b>	<b>0.31</b>	-	<b>15.66</b>
Domestic aviation	-	-	-	-	-	-	-	-	-	-	-
Road	-	-	14.44	-	-	-	-	0.44	-	-	14.89
Rail	-	-	0.13	-	-	-	-	-	0.27	-	0.40
Pipeline transport	-	-	0.00	0.33	-	-	-	-	0.03	-	0.37
Domestic navigation	-	-	0.01	-	-	-	-	-	-	-	0.01
Non-specified	-	-	-	-	-	-	-	-	-	-	-
<b>OTHER</b>	<b>7.50</b>	-	<b>3.29</b>	<b>4.87</b>	-	-	<b>0.01</b>	<b>3.04</b>	<b>6.00</b>	<b>4.82</b>	<b>29.55</b>
Residential	5.68	-	0.83	3.14	-	-	0.01	2.45	2.33	4.18	18.62
Comm. and public services	0.74	-	0.59	1.69	-	-	0.00	0.14	3.53	0.61	7.31
Agriculture/forestry	1.08	-	1.87	0.05	-	-	-	0.45	0.14	0.02	3.62
Fishing	-	-	-	0.00	-	-	-	-	0.00	0.00	0.00
Non-specified	-	-	0.00	-	-	-	-	-	-	-	0.00
<b>NON-ENERGY USE</b>	<b>0.15</b>	-	<b>2.90</b>	<b>1.97</b>	-	-	-	-	-	-	<b>5.02</b>
in industry/transf./energy	0.15	-	2.59	1.97	-	-	-	-	-	-	4.70
of which: feedstocks	-	-	1.28	1.97	-	-	-	-	-	-	3.24
in transport	-	-	0.18	-	-	-	-	-	-	-	0.18
in other	-	-	0.13	-	-	-	-	-	-	-	0.13
<b>Electricity and Heat Output</b>											
<b>Elec. generated - TWh</b>	<b>140.49</b>	-	<b>2.73</b>	<b>4.68</b>	-	<b>2.15</b>	<b>0.84</b>	<b>3.83</b>	-	-	<b>154.71</b>
Electricity plants	-	-	-	-	-	2.15	0.84	-	-	-	2.99
CHP plants	140.49	-	2.73	4.68	-	-	-	3.83	-	-	151.72
<b>Heat generated - PJ</b>	<b>281.16</b>	-	<b>4.21</b>	<b>19.15</b>	-	-	-	<b>8.13</b>	-	-	<b>312.65</b>
CHP plants	181.01	-	3.06	10.32	-	-	-	6.36	-	-	200.75
Heat plants	100.15	-	1.15	8.84	-	-	-	1.77	-	-	111.90

\* Includes crude oil, NGL, refinery feedstocks, additives and other hydrocarbons.

## Poland : 2009

Million tonnes of oil equivalent											
SUPPLY AND CONSUMPTION	Coal & peat	Crude oil*	Oil products	Natural gas	Nuclear	Hydro	Geotherm. solar etc.	Biofuels & waste	Electricity	Heat	Total
Production	56.42	0.70	-	3.68	-	0.20	0.11	6.42	-	-	67.52
Imports	6.54	21.79	5.64	8.15	-	-	-	0.24	0.64	-	43.00
Exports	-9.18	-0.23	-2.50	-0.03	-	-	-	-0.01	-0.83	-	-12.77
Intl. marine bunkers	-	-	-0.25	-	-	-	-	-	-	-	-0.25
Intl. aviation bunkers	-	-	-0.49	-	-	-	-	-	-	-	-0.49
Stock changes	-2.64	-0.28	-0.31	0.20	-	-	-	0.00	-	-	-3.03
<b>TPES</b>	<b>51.13</b>	<b>21.98</b>	<b>2.10</b>	<b>12.00</b>	<b>-</b>	<b>0.20</b>	<b>0.11</b>	<b>6.66</b>	<b>-0.19</b>	<b>-</b>	<b>93.99</b>
Transfers	-	0.07	-0.03	-	-	-	-	-	-	-	0.03
Statistical differences	-1.04	0.02	0.06	-0.06	-	-	-	-	-	-	-1.01
Electricity plants	-	-	-	-	-	-0.20	-0.09	-	0.30	-	-
CHP plants	-33.95	-	-0.50	-0.98	-	-	-	-1.47	12.70	4.71	-19.48
Heat plants	-3.02	-	-0.03	-0.26	-	-	-	-0.05	-	2.74	-0.61
Blast furnaces	-0.63 e	-	-	-	-	-	-	-	-	-	-0.63
Gas works	0.00	-	-0.00	-	-	-	-	-	-	-	-0.00
Coke/pat. fuel/BKB plants	-0.40	-	-	-	-	-	-	-	-	-	-0.40
Oil refineries	-	-22.62	22.28	-	-	-	-	-	-	-	-0.34
Petrochemical plants	-	0.55	-0.58	-	-	-	-	-	-	-	-0.03
Liquefaction plants	-	-	-	-	-	-	-	-	-	-	-
Other transformation	-	-	-	-0.24	-	-	-	-	-	-	-0.24
Energy industry own use	-0.89	-	-1.15	-0.63	-	-	-	-0.00	-2.04	-1.08	-5.79
Losses	-0.02	-	-	-0.13	-	-	-	-	-1.08	-	-1.23
<b>TFC</b>	<b>11.18</b>	<b>-</b>	<b>22.14</b>	<b>9.71</b>	<b>-</b>	<b>-</b>	<b>0.02</b>	<b>5.13</b>	<b>9.69</b>	<b>6.38</b>	<b>64.25</b>
<b>INDUSTRY</b>	<b>3.62</b>	<b>-</b>	<b>1.31</b>	<b>2.93</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1.37</b>	<b>3.42</b>	<b>1.42</b>	<b>14.07</b>
Iron and steel	0.56 e	-	0.00	0.40	-	-	-	0.01	0.43	0.11	1.51
Chemical and petrochem.	1.08	-	0.64	0.23	-	-	-	0.21	0.69	0.82	3.67
Non-ferrous metals	0.14	-	0.01	0.14	-	-	-	0.03	0.20	0.06	0.58
Non-metallic minerals	0.71	-	0.20	0.99	-	-	-	0.30	0.36	0.03	2.59
Transport equipment	0.02	-	0.01	0.09	-	-	-	0.00	0.14	0.07	0.34
Machinery	0.05	-	0.03	0.19	-	-	-	0.00	0.28	0.09	0.63
Mining and quarrying	0.01	-	0.06	0.02	-	-	-	-	0.12	0.04	0.26
Food and tobacco	0.63	-	0.13	0.50	-	-	-	0.01	0.43	0.05	1.75
Paper, pulp and printing	0.20	-	0.05	0.12	-	-	-	0.46	0.29	0.09	1.21
Wood and wood products	0.08	-	0.03	0.10	-	-	-	0.31	0.16	0.01	0.68
Construction	0.03	-	0.10	0.04	-	-	-	0.00	0.06	0.02	0.26
Textile and leather	0.02	-	0.01	0.04	-	-	-	-	0.05	0.01	0.13
Non-specified	0.06	-	0.03	0.07	-	-	-	0.05	0.21	0.03	0.45
<b>TRANSPORT</b>	<b>-</b>	<b>-</b>	<b>14.74</b>	<b>0.28</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.66</b>	<b>0.28</b>	<b>-</b>	<b>15.96</b>
Domestic aviation	-	-	-	-	-	-	-	-	-	-	-
Road	-	-	14.61	-	-	-	-	0.66	-	-	15.28
Rail	-	-	0.12	-	-	-	-	-	0.25	-	0.37
Pipeline transport	-	-	0.00	0.28	-	-	-	-	0.03	-	0.31
Domestic navigation	-	-	0.00	-	-	-	-	-	-	-	0.00
Non-specified	-	-	-	-	-	-	-	-	-	-	-
<b>OTHER</b>	<b>7.53</b>	<b>-</b>	<b>3.09</b>	<b>4.94</b>	<b>-</b>	<b>-</b>	<b>0.02</b>	<b>3.09</b>	<b>5.99</b>	<b>4.96</b>	<b>29.63</b>
Residential	5.66	-	0.79	3.22	-	-	0.01	2.45	2.37	4.24	18.74
Comm. and public services	0.80	-	0.49	1.68	-	-	0.01	0.19	3.49	0.69	7.35
Agriculture/forestry	1.07	-	1.81	0.04	-	-	-	0.45	0.14	0.02	3.54
Fishing	-	-	-	-	-	-	-	-	0.00	0.00	0.00
Non-specified	-	-	0.00	-	-	-	-	-	-	-	0.00
<b>NON-ENERGY USE</b>	<b>0.03</b>	<b>-</b>	<b>3.00</b>	<b>1.57</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>4.59</b>
in industry/transf./energy	0.03	-	2.72	1.57	-	-	-	-	-	-	4.31
of which: feedstocks	-	-	1.20	1.57	-	-	-	-	-	-	2.76
in transport	-	-	0.19	-	-	-	-	-	-	-	0.19
in other	-	-	0.09	-	-	-	-	-	-	-	0.09
<b>Electricity and Heat Output</b>											
<b>Elec. generated - TWh</b>	<b>134.70</b>	<b>-</b>	<b>2.72</b>	<b>4.79</b>	<b>-</b>	<b>2.38</b>	<b>1.08</b>	<b>5.46</b>	<b>-</b>	<b>-</b>	<b>151.12</b>
Electricity plants	-	-	-	-	-	2.38	1.08	-	-	-	3.45
CHP plants	134.70	-	2.72	4.79	-	-	-	5.46	-	-	147.67
<b>Heat generated - PJ</b>	<b>274.96</b>	<b>-</b>	<b>4.32</b>	<b>19.76</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>13.18</b>	<b>-</b>	<b>-</b>	<b>312.21</b>
CHP plants	171.81	-	3.20	10.82	-	-	-	11.53	-	-	197.37
Heat plants	103.15	-	1.12	8.94	-	-	-	1.64	-	-	114.84

\* Includes crude oil, NGL, refinery feedstocks, additives and other hydrocarbons.

## Poland

## Estimated energy supply balance for 2010

Million tonnes of oil equivalent											
SUPPLY	Coal & peat	Crude oil*	Oil products	Natural gas	Nuclear	Hydro	Geotherm. solar etc.	Biofuels & waste	Electricity	Heat	Total
Production	56.04	0.75	-	3.69	-	0.25	0.16	6.90	-	-	67.79
Imports	8.32	23.66	5.43	8.91	-	-	-	0.45	0.54	-	47.32
Exports	-11.37	-0.21	-3.32	-0.04	-	-	-	-0.01	-0.66	-	-15.61
Intl. marine bunkers	-	-	-0.21	-	-	-	-	-	-	-	-0.21
Intl. aviation bunkers	-	-	-0.50	-	-	-	-	-	-	-	-0.50
Stock changes	3.07	-0.33	-0.03	0.22	-	-	-	-0.01	-	-	2.92
<b>TPES</b>	<b>56.06</b>	<b>23.86</b>	<b>1.38</b>	<b>12.79</b>	<b>-</b>	<b>0.25</b>	<b>0.16</b>	<b>7.34</b>	<b>-0.12</b>	<b>-</b>	<b>101.71</b>
Electricity and Heat Output											
Elec. generated - TWh	138.26	-	2.88	4.81	-	2.92	1.66	6.46	-	-	156.97
Heat generated - PJ	295.47	-	4.39	20.00	-	-	-	14.14	-	-	334.00

\* Includes crude oil, NGL, refinery feedstocks, additives and other hydrocarbons.

## Key indicators

	1960	1971	1980	1990	2000	2008	2009	2010e
Energy production (Mtoe)	64.8	99.3	126.6	103.9	79.6	71.4	67.5	67.8
Net imports (Mtoe)	-10.8	-10.7	1.5	0.9	9.6	30.3	30.2	31.7
Total primary energy supply (Mtoe)	54.2	86.1	126.6	103.1	89.1	97.9	94.0	101.7
Net oil imports (Mtoe)	2.0	8.8	17.7	14.3	19.8	24.7	24.7	25.6
Oil supply (Mtoe)	2.1	8.3	16.7	13.0	19.2	24.5	24.1	25.2
Electricity consumption (TWh)*	26.8	64.1	109.4	124.7	124.6	142.1	137.0	143.7
GDP (billion 2000 USD)	54.7 e	89.2 e	119.0 e	118.2	171.3	237.7	241.7	250.9
GDP PPP (billion 2000 USD)	129.2 e	210.5 e	280.8 e	278.9	404.3	561.1	570.4	592.2
Population (millions)	29.56 e	32.80	35.58	38.03	38.26	38.12	38.15	38.12
Industrial production index (2005=100)	..	..	..	47.30	76.80	125.80	121.00	134.40
Total self-sufficiency**	1.1962	1.1524	1.0002	1.0074	0.8930	0.7290	0.7184	0.6665
Coal and peat self-sufficiency**	1.2524	1.3142	1.2058	1.2548	1.2664	1.1128	1.1034	0.9997
Oil self-sufficiency**	0.0934	0.0475	0.0202	0.0134	0.0374	0.0321	0.0290	0.0297
Natural gas self-sufficiency**	0.7051	0.7939	0.5179	0.2661	0.3327	0.2941	0.3064	0.2889
TPES/GDP (toe per thousand 2000 USD)	0.9899 e	0.9656 e	1.0641 e	0.8725	0.5203	0.4117	0.3889	0.4054
TPES/GDP PPP (toe per thousand 2000 USD)	0.4194 e	0.4091 e	0.4509 e	0.3697	0.2204	0.1744	0.1648	0.1718
TPES/population (toe per capita)	1.8327 e	2.6257	3.5589	2.7111	2.3295	2.5680	2.4634	2.6679
Net oil imports/GDP (toe per thousand 2000 USD)	0.0366 e	0.0982 e	0.1491 e	0.1211	0.1158	0.1039	0.1022	0.1019
Oil supply/GDP (toe per thousand 2000 USD)	0.0381 e	0.0934 e	0.1399 e	0.1103	0.1118	0.1032	0.0996	0.1006
Oil supply/population (toe per capita)	0.0705 e	0.2541	0.4680	0.3428	0.5007	0.6437	0.6310	0.6620
Elect. cons./GDP (kWh per 2000 USD)	0.4899 e	0.7189 e	0.9198 e	1.0553	0.7273	0.5975	0.5669	0.5726
Elect. cons./population (kWh per capita)	907 e	1955	3076	3279	3256	3727	3591	3768
Industry cons.***/industrial production (2005=100)	..	..	..	286.86	139.55	79.57	75.94	..
Industry oil cons.***/industrial production (2005=100)	..	..	..	169.25	134.83	81.61	89.40	..

\* Electricity consumption equals domestic supply less losses.

\*\* Production divided by TPES.

\*\*\* Includes non-energy use.

Poland

Figure 1. Energy production

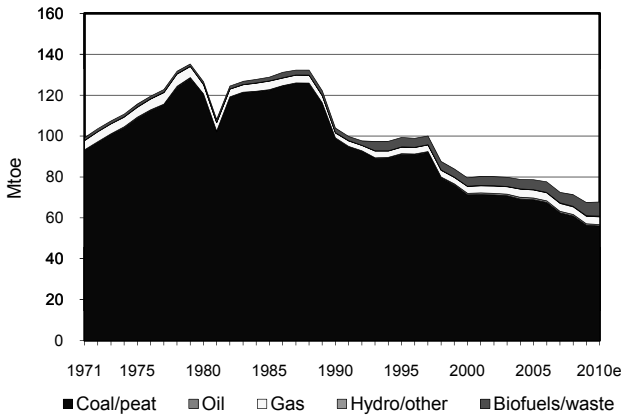


Figure 2. Total primary energy supply\*

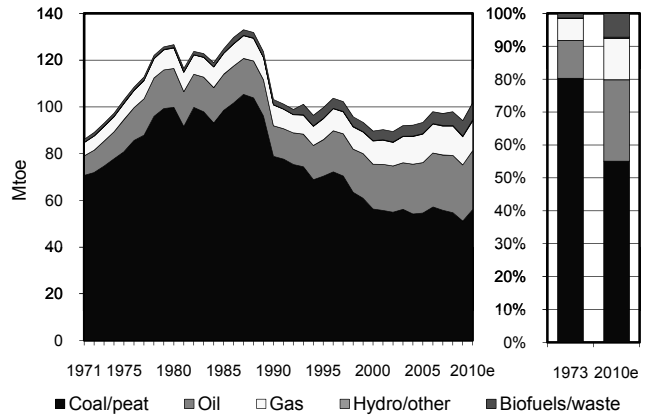


Figure 3. Energy self-sufficiency

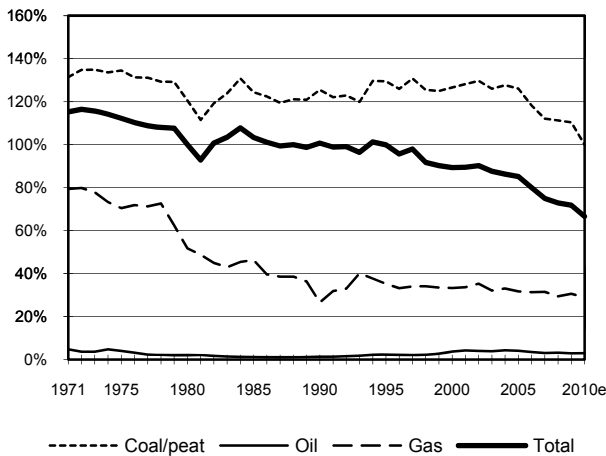


Figure 4. Breakdown of sectorial final consumption by source in 1973 and 2009\*\*

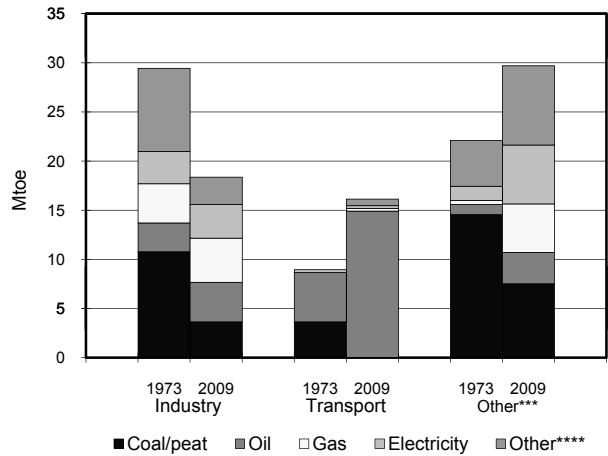


Figure 5. Electricity generation by fuel

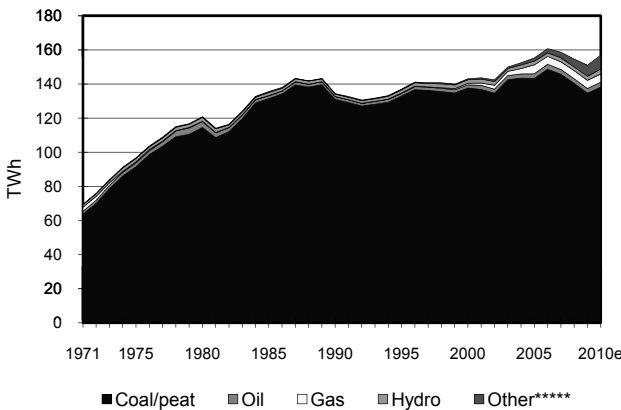
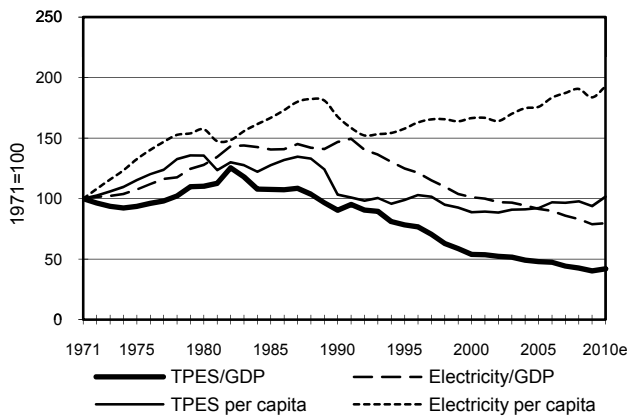


Figure 6. Selected indicators



\* Excluding electricity trade.  
 \*\* Includes non-energy use.  
 \*\*\* Includes residential, commercial and public services, agriculture/forestry, fishing and non-specified.  
 \*\*\*\* Includes biofuels and waste, direct use of geothermal/solar thermal and heat produced in CHP/heat plants.  
 \*\*\*\*\* Includes geothermal, solar, wind, biofuels and waste, etc.

## Portugal : 2008

Million tonnes of oil equivalent											
<b>SUPPLY AND CONSUMPTION</b>	Coal & peat	Crude oil*	Oil products	Natural gas	Nuclear	Hydro	Geotherm. solar etc.	Biofuels & waste	Electricity	Heat	Total
Production	-	-	-	-	-	0.58	0.71	3.19	-	-	4.49
Imports	2.33	12.68	4.06	4.14	-	-	-	-	0.92	-	24.14
Exports	-0.02	-	-2.55	-	-	-	-	-0.02	-0.11	-	-2.71
Intl. marine bunkers	-	-	-0.53	-	-	-	-	-	-	-	-0.53
Intl. aviation bunkers	-	-	-0.88	-	-	-	-	-	-	-	-0.88
Stock changes	0.23	0.02	-0.32	-0.01	-	-	-	-0.00	-	-	-0.09
<b>TPES</b>	<b>2.53</b>	<b>12.70</b>	<b>-0.21</b>	<b>4.14</b>	<b>-</b>	<b>0.58</b>	<b>0.71</b>	<b>3.17</b>	<b>0.81</b>	<b>-</b>	<b>24.43</b>
Transfers	-	0.05	-0.04	-	-	-	-	-	-	-	0.01
Statistical differences	-0.01	-	0.00	-0.03	-	-	-	-	-	-	-0.04
Electricity plants	-2.45	-	-0.48	-1.96	-	-0.58	-0.67	-0.27	3.42	-	-2.98
CHP plants	-	-	-0.45	-0.59	-	-	-	-0.18	0.49	0.32	-0.42
Heat plants	-	-	-	-	-	-	-	-	-	-	-
Blast furnaces	-	-	-	-	-	-	-	-	-	-	-
Gas works	-	-	-	-	-	-	-	-	-	-	-
Coke/pat. fuel/BKB plants	-	-	-	-	-	-	-	-	-	-	-
Oil refineries	-	-12.75	12.55	-	-	-	-	-	-	-	-0.20
Petrochemical plants	-	-	-	-	-	-	-	-	-	-	-
Liquefaction plants	-	-	-	-	-	-	-	-	-	-	-
Other transformation	-	-	-	-	-	-	-	-	-	-	-
Energy industry own use	-	-	-0.60	-0.09	-	-	-	-	-0.20	-	-0.89
Losses	-	-	-0.01	-0.02	-	-	-	-	-0.36	-	-0.39
<b>TFC</b>	<b>0.07</b>	<b>-</b>	<b>10.76</b>	<b>1.44</b>	<b>-</b>	<b>-</b>	<b>0.04</b>	<b>2.73</b>	<b>4.16</b>	<b>0.32</b>	<b>19.52</b>
<b>INDUSTRY</b>	<b>0.07</b>	<b>-</b>	<b>1.23</b>	<b>1.02</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1.43</b>	<b>1.52</b>	<b>0.30</b>	<b>5.57</b>
Iron and steel	0.01	-	0.01	0.05	-	-	-	-	0.13	-	0.19
Chemical and petrochem.	0.01	-	0.09	0.07	-	-	-	0.04	0.22	0.12	0.55
Non-ferrous metals	-	-	0.00	0.01	-	-	-	0.01	0.01	-	0.04
Non-metallic minerals	0.05	-	0.59	0.53	-	-	-	0.37	0.21	0.01	1.75
Transport equipment	-	-	0.01	0.02	-	-	-	-	0.04	-	0.07
Machinery	-	-	0.02	0.04	-	-	-	0.00	0.11	-	0.17
Mining and quarrying	-	-	0.05	0.01	-	-	-	-	0.05	0.02	0.13
Food and tobacco	-	-	0.15	0.08	-	-	-	0.09	0.15	0.04	0.51
Paper, pulp and printing	-	-	0.06	0.05	-	-	-	0.84	0.22	0.06	1.23
Wood and wood products	-	-	0.02	0.01	-	-	-	0.04	0.06	0.01	0.13
Construction	-	-	0.18	0.00	-	-	-	-	0.05	-	0.24
Textile and leather	-	-	0.04	0.14	-	-	-	0.06	0.13	0.04	0.41
Non-specified	-	-	0.01	0.01	-	-	-	0.00	0.13	-	0.15
<b>TRANSPORT</b>	<b>-</b>	<b>-</b>	<b>6.32</b>	<b>0.01</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.13</b>	<b>0.04</b>	<b>-</b>	<b>6.50</b>
Domestic aviation	-	-	0.15	-	-	-	-	-	-	-	0.15
Road	-	-	6.01	0.01	-	-	-	0.13	-	-	6.15
Rail	-	-	0.02	-	-	-	-	-	0.04	-	0.07
Pipeline transport	-	-	-	-	-	-	-	-	-	-	-
Domestic navigation	-	-	0.14	-	-	-	-	-	-	-	0.14
Non-specified	-	-	-	-	-	-	-	-	-	-	-
<b>OTHER</b>	<b>-</b>	<b>-</b>	<b>1.27</b>	<b>0.42</b>	<b>-</b>	<b>-</b>	<b>0.04</b>	<b>1.16</b>	<b>2.60</b>	<b>0.01</b>	<b>5.51</b>
Residential	-	-	0.55	0.23	-	-	0.02	1.16	1.16	0.01	3.12
Comm. and public services	-	-	0.39	0.18	-	-	0.02	-	1.36	0.01	1.95
Agriculture/forestry	-	-	0.27	0.01	-	-	-	-	0.08	0.00	0.36
Fishing	-	-	0.07	0.00	-	-	-	-	0.01	-	0.07
Non-specified	-	-	-	-	-	-	-	0.00	-	-	0.00
<b>NON-ENERGY USE</b>	<b>-</b>	<b>-</b>	<b>1.94</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1.94</b>
in industry/transf./energy	-	-	1.88	-	-	-	-	-	-	-	1.88
<i>of which: feedstocks</i>	-	-	1.46	-	-	-	-	-	-	-	1.46
in transport	-	-	0.05	-	-	-	-	-	-	-	0.05
in other	-	-	0.01	-	-	-	-	-	-	-	0.01
<b>Electricity and Heat Output</b>											
<b>Elec. generated - TWh</b>	<b>11.20</b>	<b>-</b>	<b>4.15</b>	<b>15.20</b>	<b>-</b>	<b>6.80</b>	<b>5.99</b>	<b>2.14</b>	<b>-</b>	<b>-</b>	<b>45.47</b>
Electricity plants	11.20	-	2.16	12.89	-	6.80	5.99	0.79	-	-	39.82
CHP plants	-	-	1.98	2.31	-	-	-	1.36	-	-	5.65
<b>Heat generated - PJ</b>	<b>-</b>	<b>-</b>	<b>3.99</b>	<b>9.26</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>13.25</b>
CHP plants	-	-	3.99	9.26	-	-	-	-	-	-	13.25
Heat plants	-	-	-	-	-	-	-	-	-	-	-

\* Includes crude oil, NGL, refinery feedstocks, additives and other hydrocarbons.

## Portugal : 2009

Million tonnes of oil equivalent											
<b>SUPPLY AND CONSUMPTION</b>	Coal & peat	Crude oil*	Oil products	Natural gas	Nuclear	Hydro	Geotherm. solar etc.	Biofuels & waste	Electricity	Heat	Total
Production	-	-	-	-	-	0.71	0.88	3.29	-	-	4.89
Imports	3.10	10.98	4.27	4.27	-	-	-	0.01	0.65	-	23.27
Exports	-0.04	-	-2.33	-	-	-	-	-0.00	-0.24	-	-2.61
Intl. marine bunkers	-	-	-0.47	-	-	-	-	-	-	-	-0.47
Intl. aviation bunkers	-	-	-0.82	-	-	-	-	-	-	-	-0.82
Stock changes	-0.19	0.08	0.02	-0.05	-	-	-	-0.02	-	-	-0.16
<b>TPES</b>	<b>2.86</b>	<b>11.06</b>	<b>0.67</b>	<b>4.22</b>	-	<b>0.71</b>	<b>0.88</b>	<b>3.29</b>	<b>0.41</b>	-	<b>24.10</b>
Transfers	-	0.04	-0.04	-	-	-	-	-	-	-	0.00
Statistical differences	-0.01	0.01	0.06	-0.08	-	-	-	0.00	-	-	-0.02
Electricity plants	-2.83	-	-0.34	-1.82	-	-0.71	-0.83	-0.34	3.73	-	-3.15
CHP plants	-	-	-0.42	-0.75	-	-	-	-0.20	0.53	0.38	-0.45
Heat plants	-	-	-	-	-	-	-	-	-	-	-
Blast furnaces	-	-	-	-	-	-	-	-	-	-	-
Gas works	-	-	-	-	-	-	-	-	-	-	-
Coke/pat. fuel/BKB plants	-	-	-	-	-	-	-	-	-	-	-
Oil refineries	-	-11.10	10.96	-	-	-	-	-	-	-	-0.14
Petrochemical plants	-	-	-	-	-	-	-	-	-	-	-
Liquefaction plants	-	-	-	-	-	-	-	-	-	-	-
Other transformation	-	-	-	-	-	-	-	-	-	-	-
Energy industry own use	-	-	-0.71	-0.09	-	-	-	-	-0.22	-0.07	-1.10
Losses	-	-	-0.01	-0.03	-	-	-	-	-0.33	-	-0.36
<b>TFC</b>	<b>0.02</b>	-	<b>10.19</b>	<b>1.44</b>	-	-	<b>0.05</b>	<b>2.75</b>	<b>4.12</b>	<b>0.31</b>	<b>18.88</b>
<b>INDUSTRY</b>	<b>0.02</b>	-	<b>1.15</b>	<b>0.95</b>	-	-	-	<b>1.36</b>	<b>1.39</b>	<b>0.30</b>	<b>5.18</b>
Iron and steel	0.00	-	0.00	0.04	-	-	-	-	0.09	-	0.14
Chemical and petrochem.	0.01	-	0.07	0.13	-	-	-	0.04	0.19	0.12	0.55
Non-ferrous metals	-	-	0.00	0.01	-	-	-	0.01	0.01	-	0.03
Non-metallic minerals	0.01	-	0.52	0.41	-	-	-	0.39	0.18	0.01	1.51
Transport equipment	-	-	0.01	0.01	-	-	-	-	0.04	-	0.06
Machinery	-	-	0.02	0.04	-	-	-	0.00	0.11	-	0.17
Mining and quarrying	-	-	0.05	0.01	-	-	-	-	0.04	0.03	0.14
Food and tobacco	-	-	0.15	0.09	-	-	-	0.10	0.16	0.04	0.53
Paper, pulp and printing	-	-	0.04	0.08	-	-	-	0.74	0.23	0.06	1.16
Wood and wood products	-	-	0.03	0.01	-	-	-	0.03	0.05	0.01	0.12
Construction	-	-	0.17	0.01	-	-	-	-	0.06	-	0.24
Textile and leather	-	-	0.06	0.11	-	-	-	0.06	0.11	0.04	0.39
Non-specified	-	-	0.02	0.01	-	-	-	0.00	0.13	-	0.16
<b>TRANSPORT</b>	-	-	<b>6.21</b>	<b>0.01</b>	-	-	-	<b>0.22</b>	<b>0.04</b>	-	<b>6.49</b>
Domestic aviation	-	-	0.14	-	-	-	-	-	-	-	0.14
Road	-	-	5.85	0.01	-	-	-	0.22 e	-	-	6.09
Rail	-	-	0.02	-	-	-	-	-	0.04	-	0.06
Pipeline transport	-	-	-	-	-	-	-	-	-	-	-
Domestic navigation	-	-	0.20	-	-	-	-	-	-	-	0.20
Non-specified	-	-	-	-	-	-	-	-	-	-	-
<b>OTHER</b>	-	-	<b>1.30</b>	<b>0.47</b>	-	-	<b>0.05</b>	<b>1.16</b>	<b>2.68</b>	<b>0.01</b>	<b>5.68</b>
Residential	-	-	0.53	0.26	-	-	0.02	1.16	1.22	0.00	3.20
Comm. and public services	-	-	0.44	0.20	-	-	0.03	-	1.37	0.01	2.05
Agriculture/forestry	-	-	0.26	0.01	-	-	-	-	0.08	0.00	0.35
Fishing	-	-	0.07	0.00	-	-	-	-	0.00	-	0.08
Non-specified	-	-	-	-	-	-	-	0.00	-	-	0.00
<b>NON-ENERGY USE</b>	-	-	<b>1.53</b>	-	-	-	-	-	-	-	<b>1.53</b>
in industry/transf./energy	-	-	1.48	-	-	-	-	-	-	-	1.48
of which: feedstocks	-	-	1.02	-	-	-	-	-	-	-	1.02
in transport	-	-	0.04	-	-	-	-	-	-	-	0.04
in other	-	-	0.01	-	-	-	-	-	-	-	0.01
<b>Electricity and Heat Output</b>											
<b>Elec. generated - TWh</b>	<b>12.90</b>	-	<b>3.29</b>	<b>14.71</b>	-	<b>8.28</b>	<b>7.92</b>	<b>2.38</b>	-	-	<b>49.48</b>
Electricity plants	12.90	-	1.46	11.78	-	8.28	7.92	1.00	-	-	43.35
CHP plants	-	-	1.82	2.93	-	-	-	1.38	-	-	6.14
<b>Heat generated - PJ</b>	-	-	<b>4.75</b>	<b>11.31</b>	-	-	-	-	-	-	<b>16.06</b>
CHP plants	-	-	4.75	11.31	-	-	-	-	-	-	16.06
Heat plants	-	-	-	-	-	-	-	-	-	-	-

\* Includes crude oil, NGL, refinery feedstocks, additives and other hydrocarbons.



## Portugal

## Estimated energy supply balance for 2010

Million tonnes of oil equivalent											
SUPPLY	Coal & peat	Crude oil*	Oil products	Natural gas	Nuclear	Hydro	Geotherm. solar etc.	Biofuels & waste	Electricity	Heat	Total
Production	-	-	-	-	-	1.39	1.03	3.54	-	-	5.96
Imports	1.69	11.85	3.68	4.47	-	-	-	0.06	0.50	-	22.25
Exports	-0.07	-	-2.86	-	-	-	-	-0.25	-0.27	-	-3.46
Intl. marine bunkers	-	-	-0.47	-	-	-	-	-	-	-	-0.47
Intl. aviation bunkers	-	-	-0.88	-	-	-	-	-	-	-	-0.88
Stock changes	0.03	0.04	0.06	-0.02	-	-	-	0.00	-	-	0.12
<b>TPES</b>	<b>1.65</b>	<b>11.89</b>	<b>-0.47</b>	<b>4.45</b>	<b>-</b>	<b>1.39</b>	<b>1.03</b>	<b>3.35</b>	<b>0.23</b>	<b>-</b>	<b>23.52</b>
Electricity and Heat Output											
Elec. generated - TWh	7.19	-	2.29	14.82	-	16.15	9.51	2.73	-	-	52.69
Heat generated - PJ	-	-	3.78	18.05	-	-	-	-	-	-	21.83

\* Includes crude oil, NGL, refinery feedstocks, additives and other hydrocarbons.

## Key indicators

	1960	1971	1980	1990	2000	2008	2009	2010e
Energy production (Mtoe)	1.3	1.4	1.5	3.4	3.9	4.5	4.9	6.0
Net imports (Mtoe)	2.0	5.7	9.9	14.9	22.1	21.4	20.7	18.8
Total primary energy supply (Mtoe)	3.0	6.3	10.0	16.7	24.7	24.4	24.1	23.5
Net oil imports (Mtoe)	1.8	5.4	9.4	11.9	16.0	14.2	12.9	12.7
Oil supply (Mtoe)	1.5	4.5	8.0	10.7	14.9	12.5	11.7	11.4
Electricity consumption (TWh)*	2.8	7.2	15.2	25.4	41.1	51.2	51.2	51.9
GDP (billion 2000 USD)	21.6 e	42.6	63.5	87.5	117.0	126.5	123.4	125.0
GDP PPP (billion 2000 USD)	33.5 e	66.1	98.5	135.7	181.5	196.2	191.3	193.9
Population (millions)	9.23 e	8.73	9.86	10.00	10.23	10.62	10.63	10.62
Industrial production index (2005=100)	19.20	33.60	58.60	93.30	107.10	98.80	90.60	92.20
Total self-sufficiency**	0.4243	0.2206	0.1483	0.2027	0.1559	0.1837	0.2027	0.2536
Coal and peat self-sufficiency**	0.5277	0.2608	0.1707	0.0418	-	-	-	-
Oil self-sufficiency**	..	..	-	-	-	-	-	-
Natural gas self-sufficiency**	..	..	-	-	-	-	-	-
TPES/GDP (toe per thousand 2000 USD)	0.1384 e	0.1472	0.1572	0.1914	0.2109	0.1931	0.1953	0.1882
TPES/GDP PPP (toe per thousand 2000 USD)	0.0892 e	0.0949	0.1014	0.1234	0.1359	0.1245	0.1259	0.1213
TPES/population (toe per capita)	0.3235 e	0.7190	1.0125	1.6748	2.4128	2.3000	2.2664	2.2150
Net oil imports/GDP (toe per thousand 2000 USD)	0.0819 e	0.1268	0.1486	0.1362	0.1370	0.1122	0.1047	0.1013
Oil supply/GDP (toe per thousand 2000 USD)	0.0675 e	0.1043	0.1259	0.1223	0.1274	0.0987	0.0951	0.0913
Oil supply/population (toe per capita)	0.1579 e	0.5094	0.8107	1.0706	1.4579	1.1757	1.1030	1.0753
Elect. cons./GDP (kWh per 2000 USD)	0.1315 e	0.1694	0.2396	0.2901	0.3508	0.4049	0.4150	0.4153
Elect. cons./population (kWh per capita)	307 e	827	1543	2539	4014	4822	4815	4889
Industry cons.***/industrial production (2005=100)	69.55	86.87	80.25	88.99	97.95	94.12	91.74	..
Industry oil cons.***/industrial production (2005=100)	47.78	106.98	111.87	105.23	109.64	81.26	74.82	..

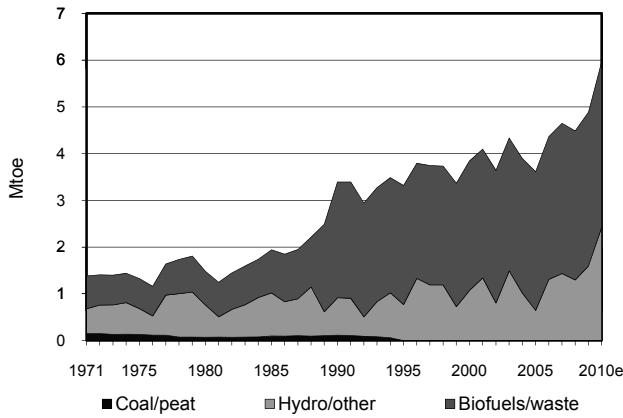
\* Electricity consumption equals domestic supply less losses.

\*\* Production divided by TPES.

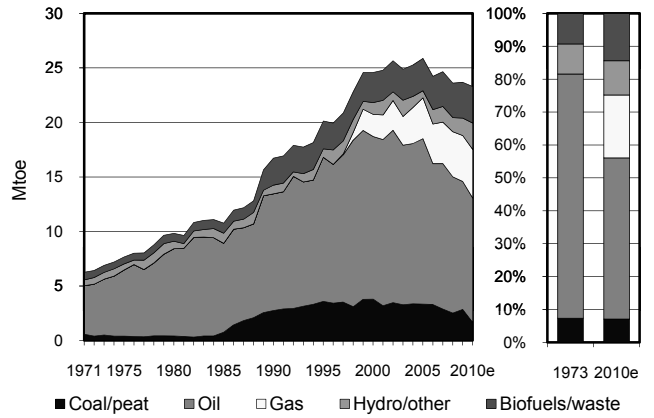
\*\*\* Includes non-energy use.

## Portugal

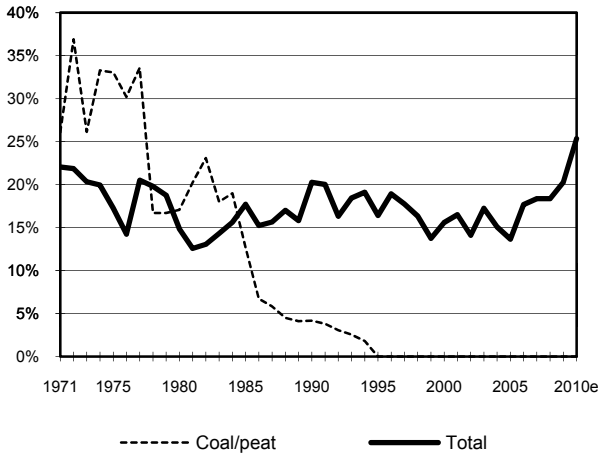
**Figure 1. Energy production**



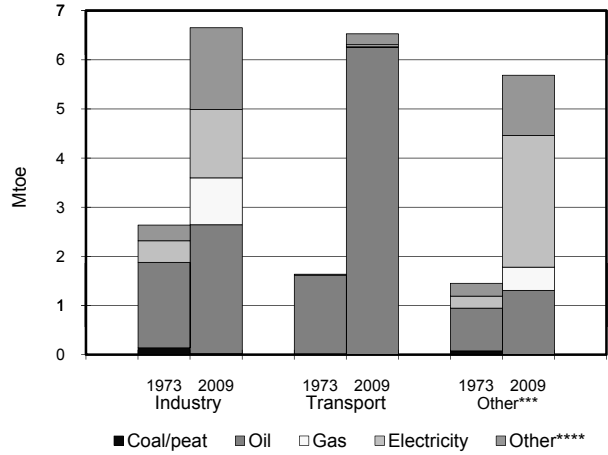
**Figure 2. Total primary energy supply\***



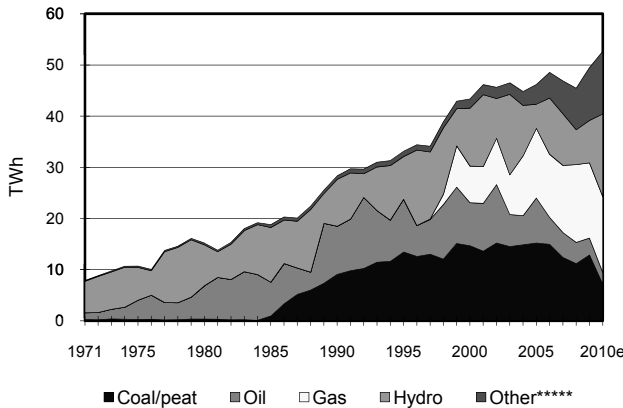
**Figure 3. Energy self-sufficiency**



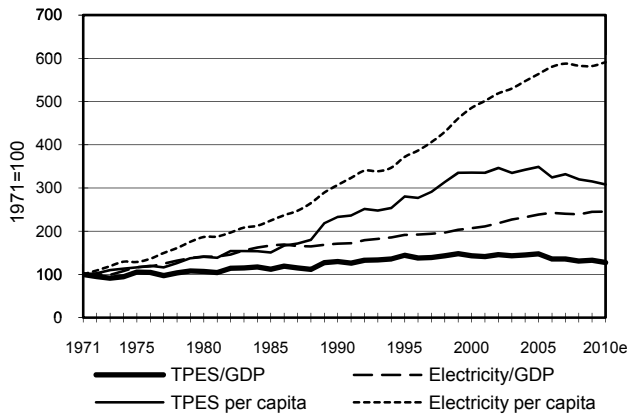
**Figure 4. Breakdown of sectorial final consumption by source in 1973 and 2009\*\***



**Figure 5. Electricity generation by fuel**



**Figure 6. Selected indicators**



\* Excluding electricity trade.  
 \*\* Includes non-energy use.  
 \*\*\* Includes residential, commercial and public services, agriculture/forestry, fishing and non-specified.  
 \*\*\*\* Includes biofuels and waste, direct use of geothermal/solar thermal and heat produced in CHP/heat plants.  
 \*\*\*\*\* Includes geothermal, solar, wind, biofuels and waste, etc.

## Slovak Republic : 2008

Million tonnes of oil equivalent											
<b>SUPPLY AND CONSUMPTION</b>	Coal & peat	Crude oil*	Oil products	Natural gas	Nuclear	Hydro	Geotherm. solar etc.	Biofuels & waste	Electricity	Heat	Total
Production	0.62	0.23	-	0.09	4.40	0.35	0.01	0.72	-	0.00	6.42
Imports	3.61	5.99	1.33	5.13	-	-	-	0.05	0.81	-	16.92
Exports	-0.17	-0.14	-3.65	-0.15	-	-	-	-0.08	-0.76	-	-4.95
Intl. marine bunkers	-	-	-	-	-	-	-	-	-	-	-
Intl. aviation bunkers	-	-	-0.06	-	-	-	-	-	-	-	-0.06
Stock changes	-0.06	-0.03	-0.03	0.10	-	-	-	-0.01	-	-	-0.03
<b>TPES</b>	<b>4.01</b>	<b>6.05</b>	<b>-2.41</b>	<b>5.16</b>	<b>4.40</b>	<b>0.35</b>	<b>0.01</b>	<b>0.68</b>	<b>0.04</b>	<b>0.00</b>	<b>18.30</b>
Transfers	-	0.10	-0.10	-	-	-	-	-	-	-	0.00
Statistical differences	-0.07	0.04	-	-	-	-	-	-	-	-	-0.03
Electricity plants	-0.19	-	-0.00	-	-0.93	-0.35	-0.00	-0.00	0.71	-	-0.75
CHP plants	-1.29	-	-0.11	-0.42	-3.48	-	-	-0.14	1.76	0.50	-3.16
Heat plants	-0.01	-	-	-0.44	-	-	-0.01	-0.04	-0.00	0.45	-0.05
Blast furnaces	-0.67	-	-	-	-	-	-	-	-	-	-0.67
Gas works	-	-	-	-	-	-	-	-	-	-	-
Coke/pat. fuel/BKB plants	-0.10	-	-	-	-	-	-	-	-	-	-0.10
Oil refineries	-	-6.57	6.61	-	-	-	-	-	-	-	0.04
Petrochemical plants	-	0.22	-0.23	-	-	-	-	-	-	-	-0.00
Liquefaction plants	-	-	-	-	-	-	-	-	-	-	-
Other transformation	-	0.15	-	-0.18	-	-	-	-	-	-	-0.03
Energy industry own use	-0.35	-	-0.52	-0.12	-	-	-	-	-0.30	-0.10	-1.40
Losses	-0.03	-	-	-0.10	-	-	-	-0.00	-0.09	-0.13	-0.35
<b>TFC</b>	<b>1.31</b>	<b>-</b>	<b>3.25</b>	<b>3.90</b>	<b>-</b>	<b>-</b>	<b>0.00</b>	<b>0.50</b>	<b>2.13</b>	<b>0.71</b>	<b>11.81</b>
<b>INDUSTRY</b>	<b>0.97</b>	<b>-</b>	<b>0.27</b>	<b>0.95</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.32</b>	<b>1.08</b>	<b>0.07</b>	<b>3.65</b>
Iron and steel	0.71	-	-	0.15	-	-	-	0.00	0.21	-	1.06
Chemical and petrochem.	-	-	0.18	0.13	-	-	-	0.02	0.13	0.04	0.51
Non-ferrous metals	0.01	-	-	0.04	-	-	-	-	0.22	-	0.26
Non-metallic minerals	0.16	-	0.06	0.16	-	-	-	0.00	0.07	0.00	0.46
Transport equipment	-	-	-	0.06	-	-	-	-	0.06	0.00	0.13
Machinery	0.00	-	0.00	0.08	-	-	-	0.01	0.12	-	0.21
Mining and quarrying	-	-	0.01	0.02	-	-	-	0.00	0.01	0.00	0.04
Food and tobacco	0.00	-	0.00	0.11	-	-	-	0.00	0.05	0.00	0.16
Paper, pulp and printing	0.08	-	0.01	0.10	-	-	-	0.24	0.11	0.02	0.55
Wood and wood products	-	-	-	0.01	-	-	-	0.04	0.02	0.00	0.07
Construction	-	-	0.01	0.02	-	-	-	0.00	0.01	0.00	0.05
Textile and leather	0.00	-	0.00	0.02	-	-	-	0.00	0.01	0.00	0.04
Non-specified	0.01	-	0.00	0.04	-	-	-	0.01	0.06	-	0.13
<b>TRANSPORT</b>	<b>-</b>	<b>-</b>	<b>1.92</b>	<b>0.55</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.13</b>	<b>0.05</b>	<b>-</b>	<b>2.64</b>
Domestic aviation	-	-	-	-	-	-	-	-	-	-	-
Road	-	-	1.92	-	-	-	-	0.13	-	-	2.05
Rail	-	-	-	-	-	-	-	-	0.04	-	0.04
Pipeline transport	-	-	-	0.54	-	-	-	-	-	-	0.54
Domestic navigation	-	-	-	-	-	-	-	-	-	-	-
Non-specified	-	-	0.00	0.01	-	-	-	-	0.01	-	0.02
<b>OTHER</b>	<b>0.29</b>	<b>-</b>	<b>0.10</b>	<b>2.12</b>	<b>-</b>	<b>-</b>	<b>0.00</b>	<b>0.05</b>	<b>1.00</b>	<b>0.64</b>	<b>4.21</b>
Residential	0.06	-	0.02	1.18	-	-	-	0.04	0.39	0.44	2.13
Comm. and public services	0.23	-	0.01	0.91	-	-	0.00	0.01	0.58	0.20	1.94
Agriculture/forestry	0.00	-	0.07	0.03	-	-	0.00	0.00	0.03	0.00	0.14
Fishing	-	-	-	-	-	-	-	-	-	-	-
Non-specified	-	-	-	-	-	-	-	-	-	-	-
<b>NON-ENERGY USE</b>	<b>0.05</b>	<b>-</b>	<b>0.96</b>	<b>0.29</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1.31</b>
in industry/transf./energy	0.05	-	0.91	0.29	-	-	-	-	-	-	1.25
of which: feedstocks	-	-	0.69	0.29	-	-	-	-	-	-	0.99
in transport	-	-	-	-	-	-	-	-	-	-	-
in other	-	-	0.05	-	-	-	-	-	-	-	0.05
<b>Electricity and Heat Output</b>											
<b>Elec. generated - TWh</b>	<b>5.15</b>	<b>-</b>	<b>0.68</b>	<b>1.61</b>	<b>16.70</b>	<b>4.04</b>	<b>0.05</b>	<b>0.54</b>	<b>-</b>	<b>-</b>	<b>28.76</b>
Electricity plants	0.66	-	0.01	-	3.55	4.04	0.01	0.00	-	-	8.26
CHP plants	4.49	-	0.68	1.61	13.15	-	0.04	0.53	-	-	20.50
<b>Heat generated - PJ</b>	<b>9.87</b>	<b>-</b>	<b>0.62</b>	<b>24.40</b>	<b>2.00</b>	<b>-</b>	<b>0.38</b>	<b>2.52</b>	<b>0.00</b>	<b>0.00</b>	<b>39.80</b>
CHP plants	9.59	-	0.61	7.67	2.00	-	-	1.16	-	-	21.04
Heat plants	0.29	-	0.01	16.73	-	-	0.38	1.36	0.00	0.00	18.76

\* Includes crude oil, NGL, refinery feedstocks, additives and other hydrocarbons.

## Slovak Republic : 2009

Million tonnes of oil equivalent											
<b>SUPPLY AND CONSUMPTION</b>	Coal & peat	Crude oil*	Oil products	Natural gas	Nuclear	Hydro	Geotherm. solar etc.	Biofuels & waste	Electricity	Heat	Total
Production	0.65	0.20	-	0.09	3.72	0.38	0.01	0.88	-	-	5.94
Imports	3.37	5.73	1.28	4.82	-	-	-	0.05	0.77	-	16.02
Exports	-0.16	-0.02	-3.88	-0.01	-	-	-	-0.05	-0.66	-	-4.78
Intl. marine bunkers	-	-	-	-	-	-	-	-	-	-	-
Intl. aviation bunkers	-	-	-0.05	-	-	-	-	-	-	-	-0.05
Stock changes	0.00	-0.00	0.06	-0.47	-	-	-	-0.01	-	-	-0.42
<b>TPES</b>	<b>3.87</b>	<b>5.91</b>	<b>-2.58</b>	<b>4.42</b>	<b>3.72</b>	<b>0.38</b>	<b>0.01</b>	<b>0.88</b>	<b>0.11</b>	<b>-</b>	<b>16.72</b>
Transfers	-	0.15	-0.15	-	-	-	-	-	-	-	0.01
Statistical differences	-0.04	-0.00	-	-	-	-	-	0.00	-	-0.00	-0.04
Electricity plants	-0.22	-	-0.00	-0.08	-1.11	-0.38	-0.00	-0.00	0.84	-	-0.94
CHP plants	-1.06	-	-0.26	-0.40	-2.61	-	-	-0.18	1.39	0.60	-2.52
Heat plants	-0.01	-	-	-0.40	-	-	-0.01	-0.05	-0.00	0.41	-0.05
Blast furnaces	-0.76	-	-	-	-	-	-	-	-	-	-0.76
Gas works	-	-	-	-	-	-	-	-	-	-	-
Coke/pat. fuel/BKB plants	-0.03	-	-	-	-	-	-	-	-	-	-0.03
Oil refineries	-	-6.42	6.54	-	-	-	-	-	-	-	0.11
Petrochemical plants	-	0.22	-0.23	-	-	-	-	-	-	-	-0.00
Liquefaction plants	-	-	-	-	-	-	-	-	-	-	-
Other transformation	-	0.14	-	-0.16	-	-	-	-	-	-	-0.03
Energy industry own use	-0.32	-	-0.52	-0.15	-	-	-	-	-0.29	-0.11	-1.40
Losses	-0.04	-	-0.00	-	-	-	-	-0.00	-0.07	-0.13	-0.24
<b>TFC</b>	<b>1.39</b>	<b>-</b>	<b>2.80</b>	<b>3.24</b>	<b>-</b>	<b>-</b>	<b>0.00</b>	<b>0.65</b>	<b>1.99</b>	<b>0.77</b>	<b>10.83</b>
<b>INDUSTRY</b>	<b>0.81</b>	<b>-</b>	<b>0.14</b>	<b>0.76</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.41</b>	<b>0.93</b>	<b>0.08</b>	<b>3.12</b>
Iron and steel	0.57	-	-	0.13	-	-	-	0.00	0.16	-	0.86
Chemical and petrochem.	-	-	0.05	0.11	-	-	-	0.02	0.12	0.05	0.35
Non-ferrous metals	0.00	-	-	0.03	-	-	-	-	0.19	-	0.22
Non-metallic minerals	0.14	-	0.05	0.13	-	-	-	0.00	0.06	0.01	0.37
Transport equipment	-	-	0.00	0.06	-	-	-	-	0.05	0.00	0.12
Machinery	0.00	-	0.00	0.05	-	-	-	0.01	0.08	-	0.15
Mining and quarrying	-	-	0.00	0.00	-	-	-	0.00	0.00	-	0.01
Food and tobacco	0.00	-	-	0.09	-	-	-	0.00	0.04	0.00	0.14
Paper, pulp and printing	0.09	-	0.01	0.08	-	-	-	0.33	0.10	0.02	0.63
Wood and wood products	-	-	-	0.01	-	-	-	0.04	0.02	0.00	0.07
Construction	-	-	0.01	0.02	-	-	-	0.00	0.02	0.00	0.05
Textile and leather	-	-	-	0.02	-	-	-	0.00	0.01	0.00	0.03
Non-specified	0.00	-	0.01	0.03	-	-	-	0.01	0.06	-	0.12
<b>TRANSPORT</b>	<b>-</b>	<b>-</b>	<b>1.67</b>	<b>0.41</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.17</b>	<b>0.04</b>	<b>-</b>	<b>2.29</b>
Domestic aviation	-	-	-	-	-	-	-	-	-	-	-
Road	-	-	1.67	-	-	-	-	0.17	-	-	1.83
Rail	-	-	-	-	-	-	-	-	0.04	-	0.04
Pipeline transport	-	-	-	0.41	-	-	-	-	-	-	0.41
Domestic navigation	-	-	-	-	-	-	-	-	-	-	-
Non-specified	-	-	0.00	0.01	-	-	-	-	0.01	-	0.02
<b>OTHER</b>	<b>0.54</b>	<b>-</b>	<b>0.10</b>	<b>1.81</b>	<b>-</b>	<b>-</b>	<b>0.00</b>	<b>0.07</b>	<b>1.02</b>	<b>0.69</b>	<b>4.22</b>
Residential	0.05	-	0.02	1.21	-	-	-	0.04	0.38	0.46	2.15
Comm. and public services	0.49	-	0.02	0.57	-	-	0.00	0.02	0.61	0.22	1.94
Agriculture/forestry	0.00	-	0.07	0.03	-	-	0.00	0.00	0.03	0.00	0.13
Fishing	-	-	-	-	-	-	-	-	-	-	-
Non-specified	-	-	-	-	-	-	-	-	-	-	-
<b>NON-ENERGY USE</b>	<b>0.04</b>	<b>-</b>	<b>0.89</b>	<b>0.26</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1.20</b>
in industry/transf./energy	0.04	-	0.86	0.26	-	-	-	-	-	-	1.17
<i>of which: feedstocks</i>	-	-	0.67	0.26	-	-	-	-	-	-	0.94
in transport	-	-	-	-	-	-	-	-	-	-	-
in other	-	-	0.03	-	-	-	-	-	-	-	0.03
<b>Electricity and Heat Output</b>											
<b>Elec. generated - TWh</b>	<b>4.28</b>	<b>-</b>	<b>0.63</b>	<b>1.97</b>	<b>14.08</b>	<b>4.37</b>	<b>0.05</b>	<b>0.55</b>	<b>-</b>	<b>-</b>	<b>25.92</b>
Electricity plants	0.76	-	0.01	0.38	4.26	4.37	0.01	0.00	-	-	9.78
CHP plants	3.52	-	0.62	1.59	9.82	-	0.04	0.55	-	-	16.14
<b>Heat generated - PJ</b>	<b>9.50</b>	<b>-</b>	<b>5.22</b>	<b>22.24</b>	<b>2.27</b>	<b>-</b>	<b>0.23</b>	<b>2.74</b>	<b>0.00</b>	<b>0.00</b>	<b>42.21</b>
CHP plants	9.34	-	5.21	7.11	2.27	-	-	1.26	-	-	25.19
Heat plants	0.16	-	0.01	15.14	-	-	0.23	1.48	0.00	0.00	17.02

\* Includes crude oil, NGL, refinery feedstocks, additives and other hydrocarbons.

## Slovak Republic

## Estimated energy supply balance for 2010

Million tonnes of oil equivalent											
SUPPLY	Coal & peat	Crude oil*	Oil products	Natural gas	Nuclear	Hydro	Geotherm. solar etc.	Biofuels & waste	Electricity	Heat	Total
Production	0.60	0.28	-	0.09	3.87	0.47	0.01	0.81	-	0.00	6.14
Imports	2.94	5.46	1.36	4.85	-	-	-	0.04	0.63	-	15.28
Exports	-0.26	-0.01	-3.48	-	-	-	-	-0.13	-0.54	-	-4.44
Intl. marine bunkers	-	-	-	-	-	-	-	-	-	-	-
Intl. aviation bunkers	-	-	-0.04	-	-	-	-	-	-	-	-0.04
Stock changes	0.16	-0.01	0.02	0.16	-	-	-	-0.00	-	-	0.33
<b>TPES</b>	<b>3.44</b>	<b>5.72</b>	<b>-2.14</b>	<b>5.10</b>	<b>3.87</b>	<b>0.47</b>	<b>0.01</b>	<b>0.71</b>	<b>0.09</b>	<b>0.00</b>	<b>17.27</b>
Electricity and Heat Output											
Elec. generated - TWh	4.16	-	0.61	1.92	14.57	5.49	0.04	0.54	-	-	27.33
Heat generated - PJ	12.96	-	7.12	30.33	3.09	-	0.31	3.74	0.00	0.00	57.55

\* Includes crude oil, NGL, refinery feedstocks, additives and other hydrocarbons.

## Key indicators

	1960	1971	1980	1990	2000	2008	2009	2010e
Energy production (Mtoe)	..	2.7	3.5	5.3	6.3	6.4	5.9	6.1
Net imports (Mtoe)	..	11.6	16.2	16.4	11.5	12.0	11.3	10.9
Total primary energy supply (Mtoe)	..	14.3	19.9	21.3	17.7	18.3	16.7	17.3
Net oil imports (Mtoe)	..	4.2	7.5	4.5	2.6	3.5	3.1	3.3
Oil supply (Mtoe)	..	4.4	7.5	4.5	2.8	3.6	3.3	3.6
Electricity consumption (TWh)*	..	12.3	21.7	29.4 e	26.7 e	28.5	26.7	27.7
GDP (billion 2000 USD)	9.3 e	12.9 e	16.3 e	18.9 e	20.4	32.9	31.3	32.6
GDP PPP (billion 2000 USD)	27.1 e	37.4 e	47.5 e	55.0 e	59.3	95.6	91.0	94.7
Population (millions)	3.99	4.56	4.98	5.30	5.40	5.41	5.42	5.41
Industrial production index (2005=100)	..	..	..	86.60	77.20	136.70	119.10	143.20
Total self-sufficiency**	..	0.1887	0.1746	0.2478	0.3565	0.3507	0.3550	0.3554
Coal and peat self-sufficiency**	..	0.2114	0.2070	0.1783	0.2384	0.1556	0.1687	0.1756
Oil self-sufficiency**	..	0.0373	0.0059	0.0172	0.0208	0.0636	0.0611	0.0791
Natural gas self-sufficiency**	..	0.3785	0.0738	0.0665	0.0230	0.0169	0.0198	0.0173
TPES/GDP (toe per thousand 2000 USD)	..	1.1090	1.2156 e	1.1278 e	0.8696	0.5564	0.5339	0.5299
TPES/GDP PPP (toe per thousand 2000 USD)	..	0.3816	0.4182 e	0.3880 e	0.2992	0.1914	0.1837	0.1823
TPES/population (toe per capita)	..	3.1275	3.9825	4.0256	3.2858	3.3865	3.0871	3.1940
Net oil imports/GDP (toe per thousand 2000 USD)	..	0.3260	0.4576 e	0.2380 e	0.1291	0.1074	0.0995	0.1021
Oil supply/GDP (toe per thousand 2000 USD)	..	0.3397	0.4590 e	0.2375 e	0.1382	0.1108	0.1063	0.1098
Oil supply/population (toe per capita)	..	0.9579	1.5036	0.8476	0.5223	0.6742	0.6144	0.6617
Elect. cons./GDP (kWh per 2000 USD)	..	0.9559	1.3293 e	1.5531 e	1.3089 e	0.8658	0.8520	0.8512
Elect. cons./population (kWh per capita)	..	2696	4355	5543 e	4946 e	5269	4926	5130
Industry cons.***/industrial production (2005=100)	..	..	..	181.92	131.67	73.96	74.32	..
Industry oil cons.***/industrial production (2005=100)	..	..	..	301.40	173.05	77.76	75.70	..

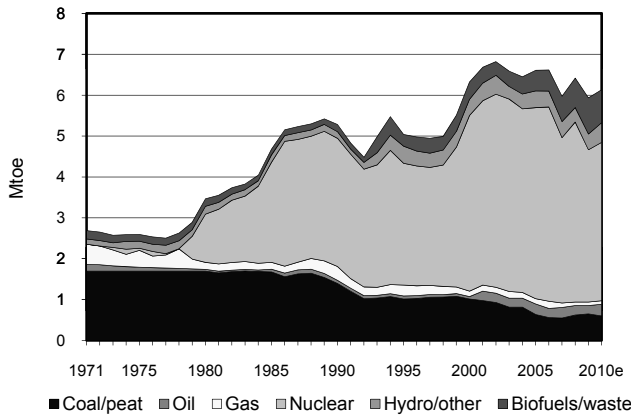
\* Electricity consumption equals domestic supply less losses.

\*\* Production divided by TPES.

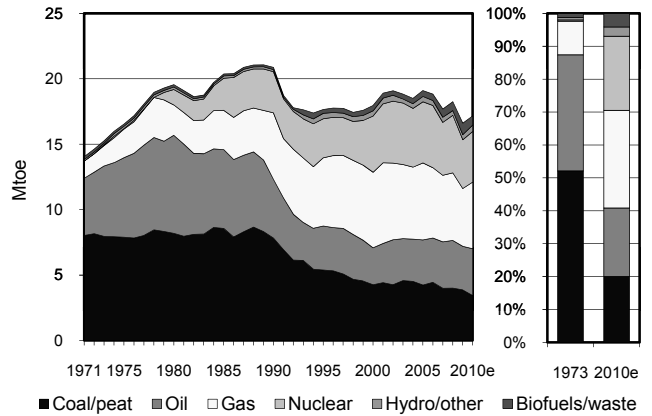
\*\*\* Includes non-energy use.

## Slovak Republic

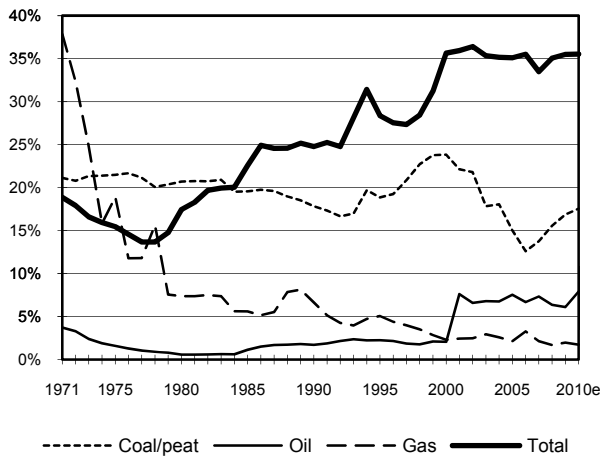
**Figure 1. Energy production**



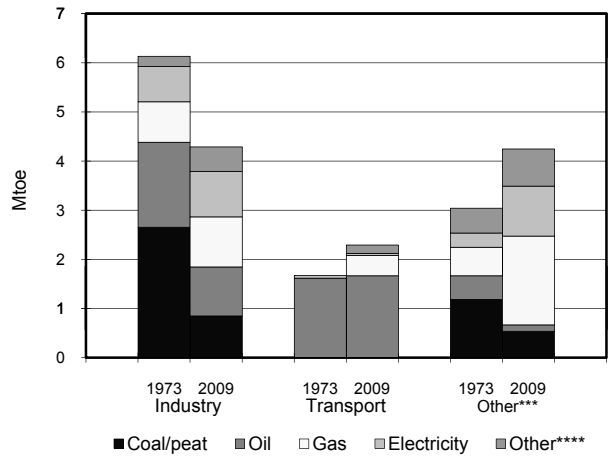
**Figure 2. Total primary energy supply\***



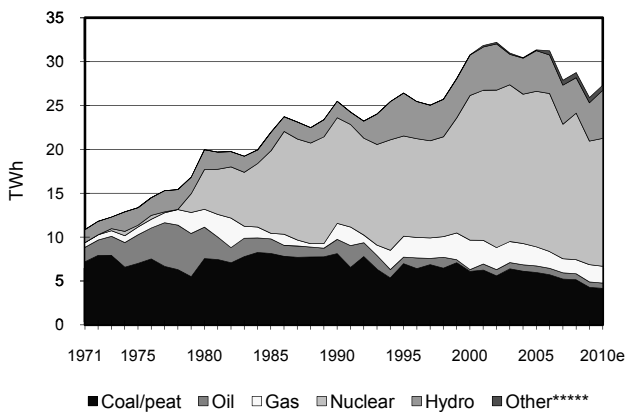
**Figure 3. Energy self-sufficiency**



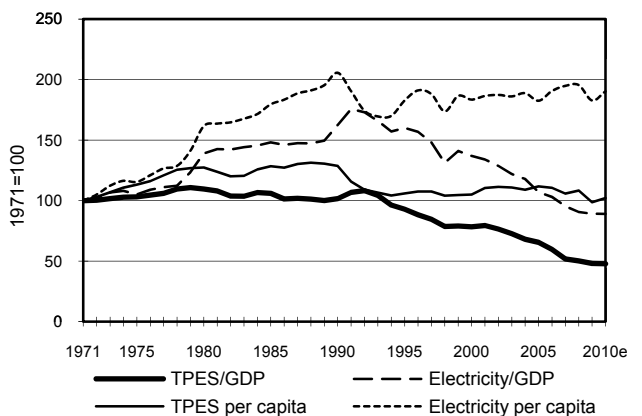
**Figure 4. Breakdown of sectorial final consumption by source in 1973 and 2009\*\***



**Figure 5. Electricity generation by fuel**



**Figure 6. Selected indicators**



\* Excluding electricity trade.

\*\* Includes non-energy use.

\*\*\* Includes residential, commercial and public services, agriculture/forestry, fishing and non-specified.

\*\*\*\* Includes biofuels and waste, direct use of geothermal/solar thermal and heat produced in CHP/heat plants.

\*\*\*\*\* Includes geothermal, solar, wind, biofuels and waste, etc.

## Slovenia : 2008

Million tonnes of oil equivalent											
<b>SUPPLY AND CONSUMPTION</b>	Coal & peat	Crude oil*	Oil products	Natural gas	Nuclear	Hydro	Geotherm. solar etc.	Biofuels & waste	Electricity	Heat	Total
Production	1.18	-	-	0.00	1.63	0.35	0.00	0.50	-	-	3.67
Imports	0.44	-	3.66	0.88	-	-	-	0.02	0.53	-	5.53
Exports	-0.00	-	-0.56	-	-	-	-	-	-0.67	-	-1.23
Intl. marine bunkers	-	-	-0.06	-	-	-	-	-	-	-	-0.06
Intl. aviation bunkers	-	-	-0.03	-	-	-	-	-	-	-	-0.03
Stock changes	-0.09	-	-0.05	-	-	-	-	-	-	-	-0.14
<b>TPES</b>	<b>1.54</b>	<b>-</b>	<b>2.96</b>	<b>0.88</b>	<b>1.63</b>	<b>0.35</b>	<b>0.00</b>	<b>0.52</b>	<b>-0.14</b>	<b>-</b>	<b>7.74</b>
Transfers	-	-	-	-	-	-	-	-	-	-	-
Statistical differences	-0.02	-	-	-	-	-	-	0.00	-0.00	-	-0.02
Electricity plants	-0.16	-	-0.00	-0.00	-1.63	-0.35	-0.00	-0.01	0.95	-	-1.21
CHP plants	-1.27	-	-0.00	-0.09	-	-	-	-0.06	0.46	0.17	-0.79
Heat plants	-0.00	-	-0.00	-0.04	-	-	-	-0.01	-	0.05	-0.00
Blast furnaces	-	-	-	-	-	-	-	-	-	-	-
Gas works	-	-	-	-	-	-	-	-	-	-	-
Coke/pat. fuel/BKB plants	-	-	-	-	-	-	-	-	-	-	-
Oil refineries	-	-	-	-	-	-	-	-	-	-	-
Petrochemical plants	-	-	-	-	-	-	-	-	-	-	-
Liquefaction plants	-	-	-	-	-	-	-	-	-	-	-
Other transformation	-	-	-	-	-	-	-	-	-	-	-
Energy industry own use	-	-	-	-0.00	-	-	-	-	-0.10	-0.01	-0.11
Losses	-	-	-	-	-	-	-	-	-0.07	-0.03	-0.10
<b>TFC</b>	<b>0.09</b>	<b>-</b>	<b>2.95</b>	<b>0.74</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.44</b>	<b>1.10</b>	<b>0.18</b>	<b>5.50</b>
<b>INDUSTRY</b>	<b>0.08</b>	<b>-</b>	<b>0.18</b>	<b>0.53</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.09</b>	<b>0.54</b>	<b>0.07</b>	<b>1.48</b>
Iron and steel	0.01	-	0.01	0.07	-	-	-	-	0.07	0.00	0.16
Chemical and petrochem.	-	-	0.01	0.06	-	-	-	0.01	0.05	0.03	0.16
Non-ferrous metals	0.00	-	0.00	0.03	-	-	-	-	0.11	0.00	0.14
Non-metallic minerals	0.05	-	0.05	0.11	-	-	-	0.01	0.04	0.00	0.27
Transport equipment	-	-	0.00	0.01	-	-	-	-	0.02	0.00	0.04
Machinery	-	-	0.02	0.05	-	-	-	0.00	0.08	0.02	0.16
Mining and quarrying	-	-	0.01	0.00	-	-	-	-	0.01	-	0.02
Food and tobacco	-	-	0.02	0.04	-	-	-	-	0.03	0.00	0.08
Paper, pulp and printing	0.02	-	0.00	0.10	-	-	-	0.01	0.06	0.00	0.19
Wood and wood products	-	-	0.00	0.01	-	-	-	0.04	0.02	0.00	0.06
Construction	-	-	0.05	0.00	-	-	-	0.00	0.01	0.00	0.06
Textile and leather	-	-	0.00	0.02	-	-	-	0.00	0.02	0.00	0.04
Non-specified	-	-	0.00	0.03	-	-	-	0.02	0.04	0.01	0.10
<b>TRANSPORT</b>	<b>-</b>	<b>-</b>	<b>1.98</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.02</b>	<b>0.02</b>	<b>-</b>	<b>2.02</b>
Domestic aviation	-	-	0.00	-	-	-	-	-	-	-	0.00
Road	-	-	1.96	-	-	-	-	0.02	-	-	1.99
Rail	-	-	0.01	-	-	-	-	-	0.02	-	0.03
Pipeline transport	-	-	-	-	-	-	-	-	-	-	-
Domestic navigation	-	-	-	-	-	-	-	-	-	-	-
Non-specified	-	-	-	-	-	-	-	0.00	-	-	0.00
<b>OTHER</b>	<b>-</b>	<b>-</b>	<b>0.61</b>	<b>0.11</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.33</b>	<b>0.54</b>	<b>0.12</b>	<b>1.71</b>
Residential	-	-	0.32	0.10	-	-	-	0.32	0.27	0.10	1.12
Comm. and public services	-	-	0.20	0.01	-	-	-	0.00	0.27	0.02	0.50
Agriculture/forestry	-	-	0.08	-	-	-	-	-	-	-	0.08
Fishing	-	-	-	-	-	-	-	-	-	-	-
Non-specified	-	-	0.02	-	-	-	-	-	-	-	0.02
<b>NON-ENERGY USE</b>	<b>0.00</b>	<b>-</b>	<b>0.18</b>	<b>0.10</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.28</b>
in industry/transf./energy	0.00	-	0.14	0.10	-	-	-	-	-	-	0.24
<i>of which: feedstocks</i>	-	-	0.00	0.10	-	-	-	-	-	-	0.10
in transport	-	-	-	-	-	-	-	-	-	-	-
in other	-	-	0.04	-	-	-	-	-	-	-	0.04
<b>Electricity and Heat Output</b>											
<b>Elec. generated - TWh</b>	<b>5.32</b>	<b>-</b>	<b>0.02</b>	<b>0.48</b>	<b>6.27</b>	<b>4.02</b>	<b>0.00</b>	<b>0.29</b>	<b>-</b>	<b>-</b>	<b>16.40</b>
Electricity plants	0.66	-	0.01	0.01	6.27	4.02	0.00	0.07	-	-	11.04
CHP plants	4.66	-	0.01	0.46	-	-	-	0.23	-	-	5.36
<b>Heat generated - PJ</b>	<b>5.99</b>	<b>-</b>	<b>0.17</b>	<b>2.65</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.52</b>	<b>-</b>	<b>-</b>	<b>9.33</b>
CHP plants	5.97	-	0.03	0.95	-	-	-	0.31	-	-	7.27
Heat plants	0.02	-	0.14	1.70	-	-	-	0.21	-	-	2.06

\* Includes crude oil, NGL, refinery feedstocks, additives and other hydrocarbons.

## Slovenia : 2009

Million tonnes of oil equivalent											
<b>SUPPLY AND CONSUMPTION</b>	Coal & peat	Crude oil*	Oil products	Natural gas	Nuclear	Hydro	Geotherm. solar etc.	Biofuels & waste	Electricity	Heat	Total
Production	1.16	-	-	0.00	1.50	0.41	0.00	0.48	-	-	3.54
Imports	0.26	-	3.08	0.83	-	-	-	0.02	0.53	-	4.72
Exports	-0.00	-	-0.49	-	-	-	-	-	-0.79	-	-1.28
Intl. marine bunkers	-	-	-0.03	-	-	-	-	-	-	-	-0.03
Intl. aviation bunkers	-	-	-0.03	-	-	-	-	-	-	-	-0.03
Stock changes	0.01	-	0.05	-	-	-	-	-	-	-	0.05
<b>TPES</b>	<b>1.42</b>	-	<b>2.57</b>	<b>0.83</b>	<b>1.50</b>	<b>0.41</b>	<b>0.00</b>	<b>0.50</b>	<b>-0.26</b>	-	<b>6.97</b>
Transfers	-	-	-	-	-	-	-	-	-	-	-
Statistical differences	-0.02	-	-	-	-	-	-	-	-	-	-0.02
Electricity plants	-0.17	-	-0.00	-0.00	-1.50	-0.41	-0.00	-0.00	0.96	-	-1.12
CHP plants	-1.17	-	-0.00	-0.12	-	-	-	-0.05	0.45	0.17	-0.74
Heat plants	-	-	-0.01	-0.04	-	-	-	-0.01	-	0.05	-0.00
Blast furnaces	-	-	-	-	-	-	-	-	-	-	-
Gas works	-	-	-	-	-	-	-	-	-	-	-
Coke/pat. fuel/BKB plants	-	-	-	-	-	-	-	-	-	-	-
Oil refineries	-	-	-	-	-	-	-	-	-	-	-
Petrochemical plants	-	-	-	-	-	-	-	-	-	-	-
Liquefaction plants	-	-	-	-	-	-	-	-	-	-	-
Other transformation	-	-	-	-	-	-	-	-	-	-	-
Energy industry own use	-	-	-	-0.00	-	-	-	-	-0.10	-0.01	-0.11
Losses	-	-	-	-	-	-	-	-	-0.08	-0.03	-0.11
<b>TFC</b>	<b>0.06</b>	-	<b>2.56</b>	<b>0.66</b>	-	-	-	<b>0.44</b>	<b>0.97</b>	<b>0.18</b>	<b>4.87</b>
<b>INDUSTRY</b>	<b>0.05</b>	-	<b>0.15</b>	<b>0.45</b>	-	-	-	<b>0.08</b>	<b>0.43</b>	<b>0.07</b>	<b>1.23</b>
Iron and steel	0.00	-	0.00	0.06	-	-	-	-	0.05	0.00	0.12
Chemical and petrochem.	-	-	0.01	0.06	-	-	-	0.01	0.05	0.03	0.16
Non-ferrous metals	0.00	-	0.01	0.03	-	-	-	-	0.06	0.00	0.10
Non-metallic minerals	0.03	-	0.04	0.07	-	-	-	0.02	0.03	0.00	0.19
Transport equipment	-	-	0.00	0.02	-	-	-	-	0.02	0.00	0.03
Machinery	-	-	0.02	0.03	-	-	-	0.00	0.07	0.01	0.12
Mining and quarrying	-	-	0.01	0.00	-	-	-	-	0.01	-	0.02
Food and tobacco	-	-	0.01	0.03	-	-	-	0.00	0.02	0.01	0.08
Paper, pulp and printing	0.02	-	0.01	0.10	-	-	-	0.01	0.06	0.00	0.19
Wood and wood products	-	-	0.00	0.00	-	-	-	0.03	0.01	0.00	0.05
Construction	-	-	0.04	0.00	-	-	-	0.00	0.01	0.00	0.05
Textile and leather	-	-	0.00	0.01	-	-	-	0.00	0.01	0.00	0.03
Non-specified	-	-	0.00	0.03	-	-	-	0.01	0.03	0.01	0.08
<b>TRANSPORT</b>	-	-	<b>1.69</b>	-	-	-	-	<b>0.03</b>	<b>0.01</b>	-	<b>1.73</b>
Domestic aviation	-	-	0.00	-	-	-	-	-	-	-	0.00
Road	-	-	1.68	-	-	-	-	0.03	-	-	1.71
Rail	-	-	0.01	-	-	-	-	-	0.01	-	0.02
Pipeline transport	-	-	-	-	-	-	-	-	-	-	-
Domestic navigation	-	-	-	-	-	-	-	-	-	-	-
Non-specified	-	-	-	-	-	-	-	-	0.00	-	0.00
<b>OTHER</b>	-	-	<b>0.58</b>	<b>0.12</b>	-	-	-	<b>0.33</b>	<b>0.53</b>	<b>0.11</b>	<b>1.68</b>
Residential	-	-	0.30	0.11	-	-	-	0.32	0.27	0.10	1.09
Comm. and public services	-	-	0.19	0.02	-	-	-	0.00	0.26	0.02	0.48
Agriculture/forestry	-	-	0.08	-	-	-	-	-	-	-	0.08
Fishing	-	-	-	-	-	-	-	-	-	-	-
Non-specified	-	-	0.02	-	-	-	-	-	-	-	0.02
<b>NON-ENERGY USE</b>	<b>0.00</b>	-	<b>0.14</b>	<b>0.09</b>	-	-	-	-	-	-	<b>0.23</b>
in industry/transf./energy	0.00	-	0.11	0.09	-	-	-	-	-	-	0.21
<i>of which: feedstocks</i>	-	-	0.00	0.09	-	-	-	-	-	-	0.09
in transport	-	-	-	-	-	-	-	-	-	-	-
in other	-	-	0.02	-	-	-	-	-	-	-	0.02
<b>Electricity and Heat Output</b>											
<b>Elec. generated - TWh</b>	<b>5.13</b>	-	<b>0.03</b>	<b>0.59</b>	<b>5.74</b>	<b>4.71</b>	<b>0.00</b>	<b>0.19</b>	-	-	<b>16.40</b>
Electricity plants	0.71	-	0.01	0.00	5.74	4.71	0.00	0.02	-	-	11.20
CHP plants	4.42	-	0.02	0.59	-	-	-	0.18	-	-	5.21
<b>Heat generated - PJ</b>	<b>5.53</b>	-	<b>0.26</b>	<b>2.51</b>	-	-	-	<b>0.78</b>	-	-	<b>9.09</b>
CHP plants	5.53	-	0.03	0.94	-	-	-	0.60	-	-	7.10
Heat plants	-	-	0.23	1.57	-	-	-	0.19	-	-	1.99

\* Includes crude oil, NGL, refinery feedstocks, additives and other hydrocarbons.



## Slovenia

## Estimated energy supply balance for 2010

Million tonnes of oil equivalent											
SUPPLY	Coal & peat	Crude oil*	Oil products	Natural gas	Nuclear	Hydro	Geotherm. solar etc.	Biofuels & waste	Electricity	Heat	Total
Production	1.16	-	-	0.01	1.47	0.39	0.00	0.52	-	-	3.54
Imports	0.28	-	3.30	0.86	-	-	-	0.04	0.69	-	5.16
Exports	-	-	-0.69	-	-	-	-	-0.01	-0.87	-	-1.57
Intl. marine bunkers	-	-	-0.02	-	-	-	-	-	-	-	-0.02
Intl. aviation bunkers	-	-	-0.03	-	-	-	-	-	-	-	-0.03
Stock changes	0.01	-	-0.01	-	-	-	-	-0.00	-	-	0.00
<b>TPES</b>	<b>1.45</b>	<b>-</b>	<b>2.56</b>	<b>0.86</b>	<b>1.47</b>	<b>0.39</b>	<b>0.00</b>	<b>0.54</b>	<b>-0.18</b>	<b>-</b>	<b>7.09</b>
Electricity and Heat Output											
Elec. generated - TWh	5.29	-	0.01	0.55	5.66	4.51	0.01	0.22	-	-	16.25
Heat generated - PJ	6.03	-	0.19	2.60	-	-	-	0.93	-	-	9.75

\* Includes crude oil, NGL, refinery feedstocks, additives and other hydrocarbons.

## Key indicators

	1960	1971	1980	1990	2000	2008	2009	2010e
Energy production (Mtoe)	..	..	..	3.1	3.1	3.7	3.5	3.5
Net imports (Mtoe)	..	..	..	2.6	3.4	4.3	3.4	3.6
Total primary energy supply (Mtoe)	..	..	..	5.7	6.4	7.7	7.0	7.1
Net oil imports (Mtoe)	..	..	..	1.8	2.4	3.1	2.6	2.6
Oil supply (Mtoe)	..	..	..	1.7	2.4	3.0	2.6	2.6
Electricity consumption (TWh)*	..	..	..	10.7	11.5	14.0	12.5	13.4
GDP (billion 2000 USD)	..	..	..	16.6	19.9	28.0	25.7	26.0
GDP PPP (billion 2000 USD)	..	..	..	28.9	34.8	48.9	44.9	45.4
Population (millions)	..	..	..	2.00	1.99	2.02	2.04	2.06
Industrial production index (2005=100)	..	..	..	..	86.20	116.10	96.00	102.40
Total self-sufficiency**	..	..	..	0.5374	0.4830	0.4747	0.5081	0.4997
Coal and peat self-sufficiency**	..	..	..	0.8573	0.8132	0.7715	0.8144	0.8006
Oil self-sufficiency**	..	..	..	0.0018	0.0004	-	-	-
Natural gas self-sufficiency**	..	..	..	0.0265	0.0073	0.0029	0.0031	0.0069
TPES/GDP (toe per thousand 2000 USD)	..	..	..	0.3451	0.3224	0.2766	0.2712	0.2728
TPES/GDP PPP (toe per thousand 2000 USD)	..	..	..	0.1975	0.1845	0.1583	0.1552	0.1561
TPES/population (toe per capita)	..	..	..	2.8592	3.2243	3.8257	3.4127	3.4399
Net oil imports/GDP (toe per thousand 2000 USD)	..	..	..	0.1093	0.1221	0.1111	0.1007	0.1005
Oil supply/GDP (toe per thousand 2000 USD)	..	..	..	0.1047	0.1190	0.1057	0.1002	0.0985
Oil supply/population (toe per capita)	..	..	..	0.8673	1.1899	1.4623	1.2607	1.2426
Elect. cons./GDP (kWh per 2000 USD)	..	..	..	0.6443	0.5778	0.5001	0.4845	0.5163
Elect. cons./population (kWh per capita)	..	..	..	5338	5778	6918	6097	6511
Industry cons.***/industrial production (2005=100)	..	..	..	..	99.88	77.03	77.52	..
Industry oil cons.***/industrial production (2005=100)	..	..	..	..	127.96	77.44	78.25	..

\* Electricity consumption equals domestic supply less losses.

\*\* Production divided by TPES.

\*\*\* Includes non-energy use.

Slovenia

Figure 1. Energy production

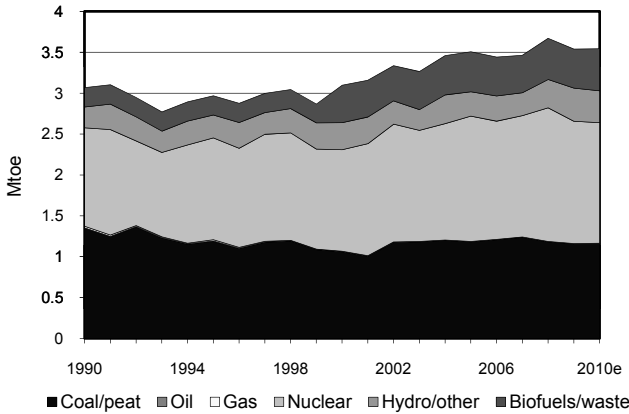


Figure 2. Total primary energy supply\*

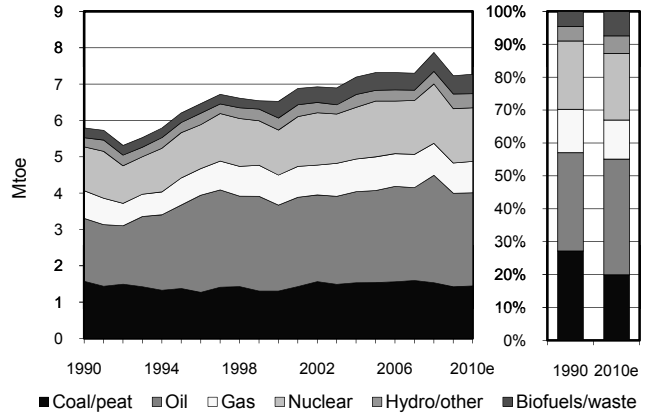


Figure 3. Energy self-sufficiency

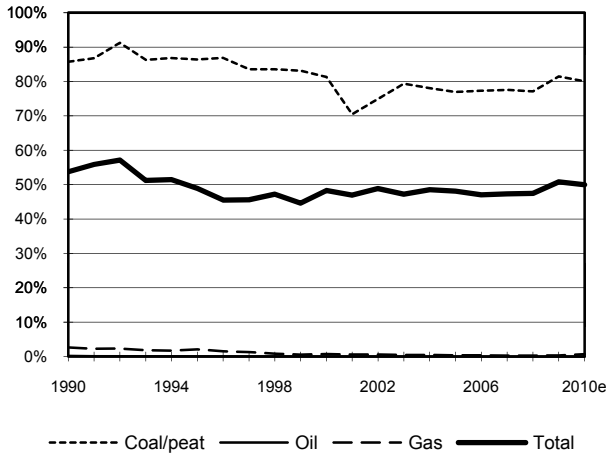


Figure 4. Breakdown of sectorial final consumption by source in 1990 and 2009\*\*

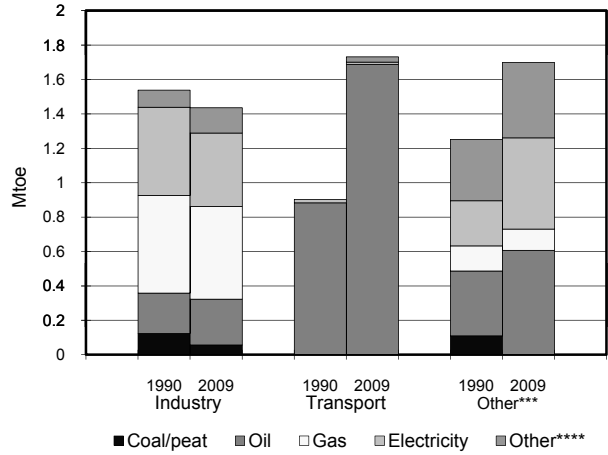


Figure 5. Electricity generation by fuel

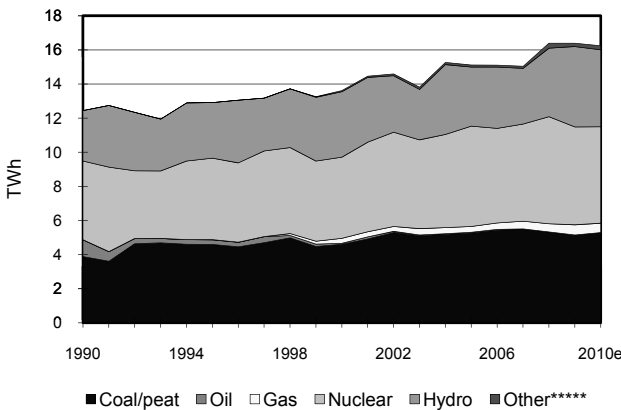
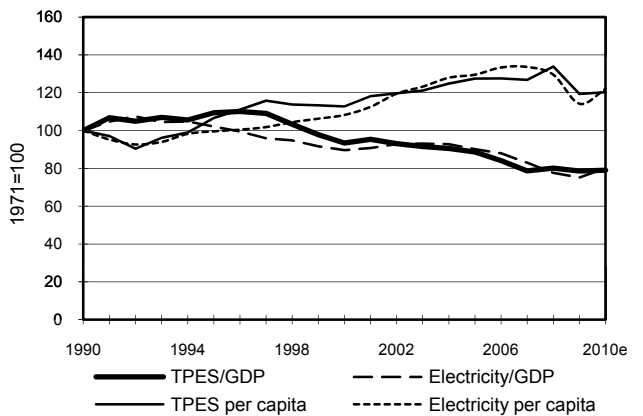


Figure 6. Selected indicators



\* Excluding electricity trade.

\*\* Includes non-energy use.

\*\*\* Includes residential, commercial and public services, agriculture/forestry, fishing and non-specified.

\*\*\*\* Includes biofuels and waste, direct use of geothermal/solar thermal and heat produced in CHP/heat plants.

\*\*\*\*\* Includes geothermal, solar, wind, biofuels and waste, etc.

## Spain : 2008

Million tonnes of oil equivalent											
<b>SUPPLY AND CONSUMPTION</b>	Coal & peat	Crude oil*	Oil products	Natural gas	Nuclear	Hydro	Geotherm. solar etc.	Biofuels & waste	Electricity	Heat	Total
Production	4.19	0.13	-	0.01	15.37	2.02	3.19	5.51	-	-	30.44
Imports	12.55	61.66	26.02	35.27	-	-	-	0.32	0.51	-	136.32
Exports	-1.50	-	-10.24	-0.04	-	-	-	-0.08	-1.46	-	-13.32
Intl. marine bunkers	-	-	-8.70	-	-	-	-	-	-	-	-8.70
Intl. aviation bunkers	-	-	-3.41	-	-	-	-	-	-	-	-3.41
Stock changes	-1.76	-0.34	-0.07	-0.34	-	-	-	-	-	-	-2.51
<b>TPES</b>	<b>13.48</b>	<b>61.45</b>	<b>3.60</b>	<b>34.90</b>	<b>15.37</b>	<b>2.02</b>	<b>3.19</b>	<b>5.75</b>	<b>-0.95</b>	-	<b>138.81</b>
Transfers	-	0.72	-0.73	-	-	-	-	-	-	-	-0.01
Statistical differences	0.41	-	-0.45	-0.01	-	-	-	0.01	-0.03	-	-0.06
Electricity plants	-11.20	-	-3.35	-14.80	-15.37	-2.02	-3.06	-1.00	24.01	-	-26.79
CHP plants	-0.04	-	-0.63	-3.23	-	-	-	-0.19	2.75	-	-1.35
Heat plants	-	-	-	-	-	-	-	-	-	-	-
Blast furnaces	-0.63 e	-	-	-	-	-	-	-	-	-	-0.63
Gas works	0.04	-	-0.06	-	-	-	-	-	-	-	-0.01
Coke/pat. fuel/BKB plants	-0.05	-	-	-	-	-	-	-	-	-	-0.05
Oil refineries	-	-62.24	61.09	-	-	-	-	-	-	-	-1.14
Petrochemical plants	-	0.09	-0.09	-	-	-	-	-	-	-	-0.00
Liquefaction plants	-	-	-	-	-	-	-	-	-	-	-
Other transformation	-	-	-	-	-	-	-	-	-	-	-
Energy industry own use	-0.52	-	-4.23	-1.66	-	-	-0.00	-0.13	-1.68	-	-8.22
Losses	-0.03	-	-	-0.13	-	-	-	-	-0.99	-	-1.15
<b>TFC</b>	<b>1.47</b>	<b>0.01</b>	<b>55.15</b>	<b>15.07</b>	-	-	<b>0.14</b>	<b>4.44</b>	<b>23.11</b>	-	<b>99.39</b>
<b>INDUSTRY</b>	<b>1.12</b>	<b>0.01</b>	<b>5.26</b>	<b>9.35</b>	-	-	<b>0.00</b>	<b>1.64</b>	<b>8.53</b>	-	<b>25.91</b>
Iron and steel	0.69 e	-	0.35	0.66	-	-	-	0.00	1.55	-	3.25
Chemical and petrochem.	0.16	0.01	0.60	2.46	-	-	0.00	0.01	1.00	-	4.24
Non-ferrous metals	0.04	-	0.13	0.13	-	-	0.00	-	0.91	-	1.21
Non-metallic minerals	0.16	-	2.54	2.52	-	-	0.00	0.14	0.96	-	6.31
Transport equipment	-	-	0.15	0.27	-	-	0.00	-	0.33	-	0.75
Machinery	-	-	0.21	0.42	-	-	0.00	0.00	0.59	-	1.23
Mining and quarrying	-	-	0.11	0.09	-	-	-	0.00	0.12	-	0.32
Food and tobacco	0.04	-	0.46	0.48	-	-	0.00	0.34	0.94	-	2.26
Paper, pulp and printing	-	-	0.28	0.75	-	-	0.00	0.64	0.69	-	2.35
Wood and wood products	-	-	0.04	0.07	-	-	-	0.41	0.19	-	0.71
Construction	-	-	0.12	0.07	-	-	0.00	0.01	0.29	-	0.49
Textile and leather	-	-	0.12	0.15	-	-	0.00	0.01	0.23	-	0.50
Non-specified	0.02	-	0.17	1.28	-	-	0.00	0.09	0.73	-	2.29
<b>TRANSPORT</b>	-	-	<b>35.86</b>	<b>0.07</b>	-	-	-	<b>0.62</b>	<b>0.28</b>	-	<b>36.83</b>
Domestic aviation	-	-	2.39	-	-	-	-	-	-	-	2.39
Road	-	-	31.44	-	-	-	-	0.62	-	-	32.06
Rail	-	-	0.72	-	-	-	-	-	0.27	-	0.99
Pipeline transport	-	-	-	-	-	-	-	-	-	-	-
Domestic navigation	-	-	1.32	-	-	-	-	-	-	-	1.32
Non-specified	-	-	-	0.07	-	-	-	-	0.01	-	0.08
<b>OTHER</b>	<b>0.27</b>	-	<b>6.82</b>	<b>5.26</b>	-	-	<b>0.13</b>	<b>2.18</b>	<b>14.29</b>	-	<b>28.96</b>
Residential	0.22	-	3.52	3.61	-	-	0.10	2.05	6.29	-	15.80
Comm. and public services	0.02	-	1.46	0.83	-	-	0.03	0.09	7.23	-	9.65
Agriculture/forestry	-	-	1.83	0.32	-	-	0.01	0.03	0.52	-	2.71
Fishing	-	-	-	-	-	-	-	-	-	-	-
Non-specified	0.04	-	-	0.50	-	-	0.00	0.01	0.26	-	0.80
<b>NON-ENERGY USE</b>	<b>0.08</b>	-	<b>7.22</b>	<b>0.39</b>	-	-	-	-	-	-	<b>7.69</b>
in industry/transf./energy	0.08	-	6.96	0.39	-	-	-	-	-	-	7.44
<i>of which: feedstocks</i>	0.06	-	4.04	0.39	-	-	-	-	-	-	4.50
in transport	-	-	0.22	-	-	-	-	-	-	-	0.22
in other	-	-	0.03	-	-	-	-	-	-	-	0.03
<b>Electricity and Heat Output</b>											
<b>Elec. generated - TWh</b>	<b>49.97</b>	-	<b>18.00</b>	<b>120.80</b>	<b>58.97</b>	<b>23.53</b>	<b>35.83</b>	<b>4.04</b>	-	-	<b>311.15</b>
Electricity plants	49.66	-	13.58	95.15	58.97	23.53	35.52	2.78	-	-	279.20
CHP plants	0.31	-	4.42	25.65	-	-	0.31	1.26	-	-	31.95
<b>Heat generated - PJ</b>	-	-	-	-	-	-	-	-	-	-	-
CHP plants	-	-	-	-	-	-	-	-	-	-	-
Heat plants	-	-	-	-	-	-	-	-	-	-	-

\* Includes crude oil, NGL, refinery feedstocks, additives and other hydrocarbons.

## Spain : 2009

Million tonnes of oil equivalent											
<b>SUPPLY AND CONSUMPTION</b>	Coal & peat	Crude oil*	Oil products	Natural gas	Nuclear	Hydro	Geotherm. solar etc.	Biofuels & waste	Electricity	Heat	Total
Production	3.63	0.11	-	0.01	13.75	2.26	3.94	6.02	-	-	29.72
Imports	9.91	56.98	25.45	31.76	-	-	-	0.45	0.58	-	125.13
Exports	-0.94	-	-11.07	-0.89	-	-	-	-0.27	-1.28	-	-14.44
Intl. marine bunkers	-	-	-8.64	-	-	-	-	-	-	-	-8.64
Intl. aviation bunkers	-	-	-3.17	-	-	-	-	-	-	-	-3.17
Stock changes	-3.12	0.82	-0.09	0.33	-	-	-	0.00	-	-	-2.07
<b>TPES</b>	<b>9.47</b>	<b>57.90</b>	<b>2.47</b>	<b>31.21</b>	<b>13.75</b>	<b>2.26</b>	<b>3.94</b>	<b>6.21</b>	<b>-0.70</b>	-	<b>126.52</b>
Transfers	-	0.83	-0.83	-	-	-	-	-	-	-	-0.01
Statistical differences	0.91	-	-0.27	0.07	-	-	-0.00	-	0.02	-	0.73
Electricity plants	-8.47	-	-3.26	-13.23	-13.75	-2.26	-3.77	-0.95	22.29	-	-23.41
CHP plants	-0.05	-	-0.67	-3.20	-	-	-	-0.24	2.74	-	-1.42
Heat plants	-	-	-	-	-	-	-	-	-	-	-
Blast furnaces	-0.52 e	-	-	-	-	-	-	-	-	-	-0.52
Gas works	0.04	-	-0.06	-	-	-	-	-	-	-	-0.02
Coke/pat. fuel/BKB plants	0.16	-	-	-	-	-	-	-	-	-	0.16
Oil refineries	-	-58.80	57.76	-	-	-	-	-	-	-	-1.05
Petrochemical plants	-	0.09	-0.09	-	-	-	-	-	-	-	-0.00
Liquefaction plants	-	-	-	-	-	-	-	-	-	-	-
Other transformation	-	-	-	-	-	-	-	-	-	-	-
Energy industry own use	-0.50	-	-4.05	-1.46	-	-	-0.00	-0.17	-1.53	-	-7.72
Losses	-0.01	-	-	-0.11	-	-	-	-	-0.86	-	-0.98
<b>TFC</b>	<b>1.03</b>	<b>0.01</b>	<b>51.00</b>	<b>13.28</b>	-	-	<b>0.16</b>	<b>4.84</b>	<b>21.96</b>	-	<b>92.29</b>
<b>INDUSTRY</b>	<b>0.70</b>	<b>0.01</b>	<b>4.71</b>	<b>8.26</b>	-	-	<b>0.00</b>	<b>1.56</b>	<b>8.11</b>	-	<b>23.35</b>
Iron and steel	0.44 e	-	0.32	0.57	-	-	-	0.00	1.48	-	2.81
Chemical and petrochem.	0.13	0.01	0.55	2.13	-	-	0.00	0.01	0.95	-	3.78
Non-ferrous metals	0.03	-	0.11	0.11	-	-	0.00	-	0.87	-	1.12
Non-metallic minerals	0.02	-	2.32	2.18	-	-	0.00	0.14	0.91	-	5.57
Transport equipment	-	-	0.13	0.24	-	-	0.00	0.00	0.31	-	0.68
Machinery	-	-	0.19	0.37	-	-	0.00	0.00	0.56	-	1.12
Mining and quarrying	-	-	0.10	0.07	-	-	-	0.00	0.11	-	0.28
Food and tobacco	0.03	-	0.39	0.44	-	-	0.00	0.34	0.90	-	2.09
Paper, pulp and printing	-	-	0.22	0.67	-	-	0.00	0.57	0.66	-	2.11
Wood and wood products	-	-	0.03	0.07	-	-	-	0.40	0.18	-	0.67
Construction	0.06	-	0.11	0.06	-	-	0.00	0.01	0.28	-	0.52
Textile and leather	-	-	0.11	0.13	-	-	0.00	0.01	0.22	-	0.46
Non-specified	-	-	0.14	1.22	-	-	0.00	0.09	0.69	-	2.14
<b>TRANSPORT</b>	-	-	<b>33.05</b>	<b>0.06</b>	-	-	-	<b>1.07</b>	<b>0.27</b>	-	<b>34.44</b>
Domestic aviation	-	-	2.11	-	-	-	-	-	-	-	2.11
Road	-	-	29.23	-	-	-	-	1.07	-	-	30.30
Rail	-	-	0.61	-	-	-	-	-	0.26	-	0.87
Pipeline transport	-	-	-	-	-	-	-	-	-	-	-
Domestic navigation	-	-	1.09	-	-	-	-	-	-	-	1.09
Non-specified	-	-	-	0.06	-	-	-	0.00	0.01	-	0.07
<b>OTHER</b>	<b>0.32</b>	-	<b>6.47</b>	<b>4.59</b>	-	-	<b>0.16</b>	<b>2.21</b>	<b>13.58</b>	-	<b>27.34</b>
Residential	0.26	-	3.32	3.13	-	-	0.13	2.07	5.98	-	14.89
Comm. and public services	0.02	-	1.42	0.68	-	-	0.03	0.09	6.87	-	9.11
Agriculture/forestry	-	-	1.72	0.28	-	-	0.01	0.04	0.49	-	2.54
Fishing	-	-	-	-	-	-	-	-	-	-	-
Non-specified	0.05	-	-	0.50	-	-	0.00	0.01	0.25	-	0.81
<b>NON-ENERGY USE</b>	-	-	<b>6.77</b>	<b>0.38</b>	-	-	-	-	-	-	<b>7.15</b>
in industry/transf./energy	-	-	6.54	0.38	-	-	-	-	-	-	6.91
of which: feedstocks	-	-	3.84	0.38	-	-	-	-	-	-	4.21
in transport	-	-	0.21	-	-	-	-	-	-	-	0.21
in other	-	-	0.02	-	-	-	-	-	-	-	0.02
<b>Electricity and Heat Output</b>											
<b>Elec. generated - TWh</b>	<b>37.17</b>	-	<b>18.97</b>	<b>107.45</b>	<b>52.76</b>	<b>26.33</b>	<b>44.15</b>	<b>4.19</b>	-	-	<b>291.02</b>
Electricity plants	36.81	-	14.27	82.59	52.76	26.33	43.81	2.63	-	-	259.20
CHP plants	0.36	-	4.70	24.85	-	-	0.34	1.56	-	-	31.81
<b>Heat generated - PJ</b>	-	-	-	-	-	-	-	-	-	-	-
CHP plants	-	-	-	-	-	-	-	-	-	-	-
Heat plants	-	-	-	-	-	-	-	-	-	-	-

\* Includes crude oil, NGL, refinery feedstocks, additives and other hydrocarbons.

## Spain

## Estimated energy supply balance for 2010

Million tonnes of oil equivalent											
SUPPLY	Coal & peat	Crude oil*	Oil products	Natural gas	Nuclear	Hydro	Geotherm. solar etc.	Biofuels & waste	Electricity	Heat	Total
Production	3.20	0.13	-	0.04	16.10	3.63	4.52	6.28	-	-	33.90
Imports	7.71	57.26	23.73	31.95	-	-	-	0.87	0.44	-	121.95
Exports	-1.13	-	-11.53	-1.00	-	-	-	-0.42	-1.16	-	-15.25
Intl. marine bunkers	-	-	-8.34	-	-	-	-	-	-	-	-8.34
Intl. aviation bunkers	-	-	-2.51	-	-	-	-	-	-	-	-2.51
Stock changes	-1.71	0.07	-0.12	0.14	-	-	-	-0.01	-	-	-1.63
<b>TPES</b>	<b>8.06</b>	<b>57.45</b>	<b>1.23</b>	<b>31.13</b>	<b>16.10</b>	<b>3.63</b>	<b>4.52</b>	<b>6.73</b>	<b>-0.72</b>	<b>-</b>	<b>128.14</b>
Electricity and Heat Output											
Elec. generated - TWh	26.12	-	16.51	93.38	61.79	42.22	50.58	4.71	-	-	295.30
Heat generated - PJ	-	-	-	-	-	-	-	-	-	-	-

\* Includes crude oil, NGL, refinery feedstocks, additives and other hydrocarbons.

## Key indicators

	1960	1971	1980	1990	2000	2008	2009	2010e
Energy production (Mtoe)	9.8	10.5	15.8	34.6	31.7	30.4	29.7	33.9
Net imports (Mtoe)	6.6	35.5	55.4	60.4	100.2	123.0	110.7	106.7
Total primary energy supply (Mtoe)	16.2	42.6	67.7	90.1	122.0	138.8	126.5	128.1
Net oil imports (Mtoe)	6.4	33.6	49.9	49.7	71.5	77.4	71.4	69.5
Oil supply (Mtoe)	6.0	30.1	49.8	45.5	62.1	65.1	60.4	58.7
Electricity consumption (TWh)*	15.1	52.5	99.1	137.5	209.7	291.2	275.7	280.1
GDP (billion 2000 USD)	113.2 e	241.9	330.0	440.6	580.7	741.0	713.4	712.3
GDP PPP (billion 2000 USD)	167.3 e	357.5	487.8	651.4	858.4	1095.4	1054.6	1053.1
Population (millions)	30.40 e	34.33	37.67	39.01	40.26	45.59	45.93	46.27
Industrial production index (2005=100)	..	43.10	65.60	79.10	97.80	98.40	82.80	83.50
Total self-sufficiency**	0.6088	0.2453	0.2330	0.3839	0.2597	0.2193	0.2349	0.2646
Coal and peat self-sufficiency**	0.9550	0.7733	0.7905	0.6089	0.3808	0.3113	0.3829	0.3965
Oil self-sufficiency**	0.0109	0.0042	0.0360	0.0257	0.0037	0.0020	0.0018	0.0021
Natural gas self-sufficiency**	..	0.0040	-	0.2562	0.0097	0.0004	0.0004	0.0014
TPES/GDP (toe per thousand 2000 USD)	0.1429 e	0.1762	0.2051	0.2044	0.2100	0.1873	0.1774	0.1799
TPES/GDP PPP (toe per thousand 2000 USD)	0.0966 e	0.1192	0.1388	0.1383	0.1421	0.1267	0.1200	0.1217
TPES/population (toe per capita)	0.5318 e	1.2409	1.7971	2.3091	3.0287	3.0446	2.7547	2.7695
Net oil imports/GDP (toe per thousand 2000 USD)	0.0567 e	0.1389	0.1513	0.1127	0.1231	0.1045	0.1000	0.0975
Oil supply/GDP (toe per thousand 2000 USD)	0.0531 e	0.1245	0.1508	0.1032	0.1070	0.0878	0.0846	0.0824
Oil supply/population (toe per capita)	0.1975 e	0.8770	1.3214	1.1655	1.5424	1.4268	1.3144	1.2684
Elect. cons./GDP (kWh per 2000 USD)	0.1332 e	0.2172	0.3004	0.3120	0.3610	0.3930	0.3865	0.3932
Elect. cons./population (kWh per capita)	496 e	1530	2632	3524	5207	6387	6004	6053
Industry cons.***/industrial production (2005=100)	..	105.68	93.04	82.04	89.87	88.17	95.10	..
Industry oil cons.***/industrial production (2005=100)	..	202.60	185.52	106.27	112.38	95.61	104.54	..

\* Electricity consumption equals domestic supply less losses.

\*\* Production divided by TPES.

\*\*\* Includes non-energy use.

Spain

Figure 1. Energy production

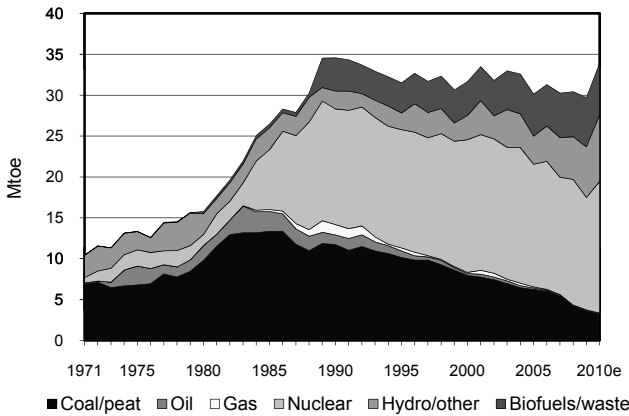


Figure 2. Total primary energy supply\*

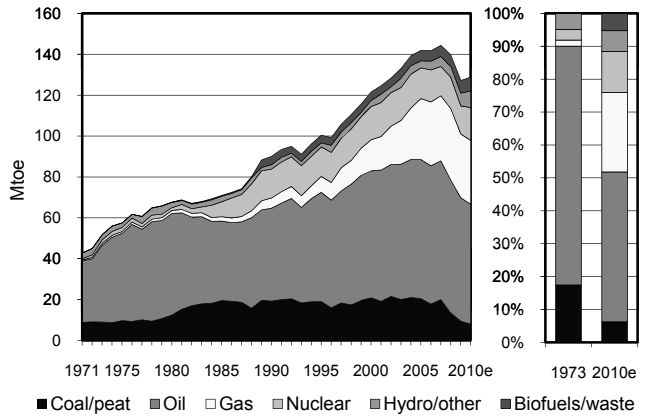


Figure 3. Energy self-sufficiency

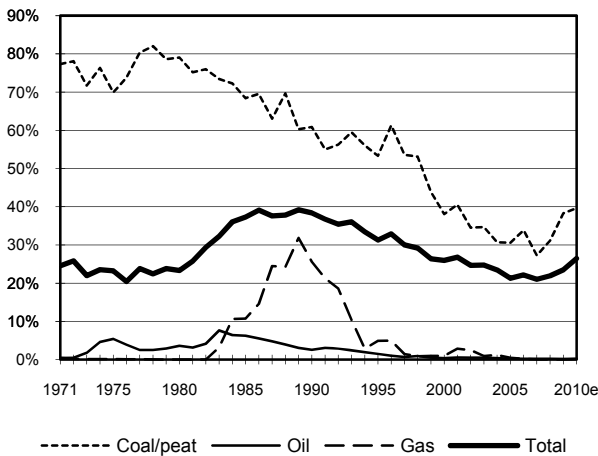


Figure 4. Breakdown of sectorial final consumption by source in 1973 and 2009\*\*

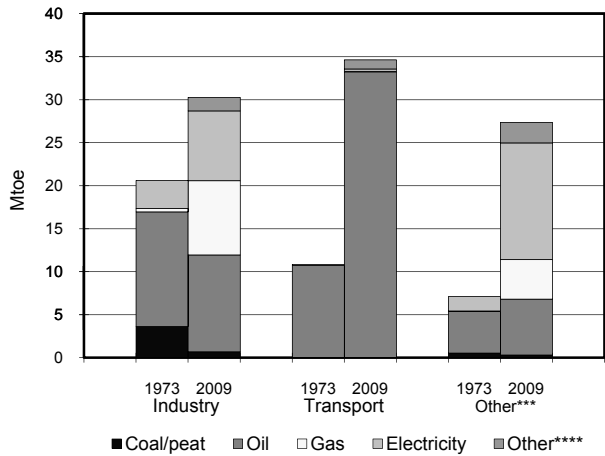


Figure 5. Electricity generation by fuel

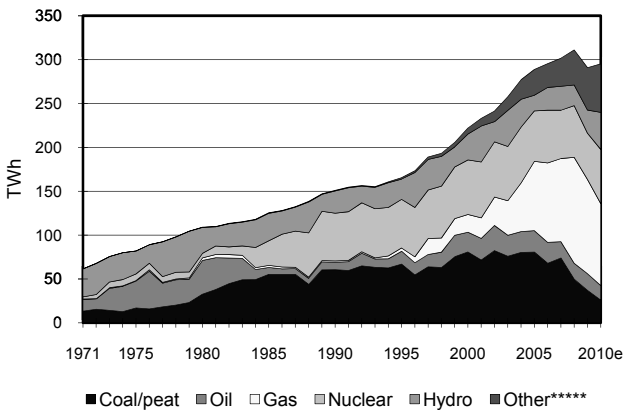
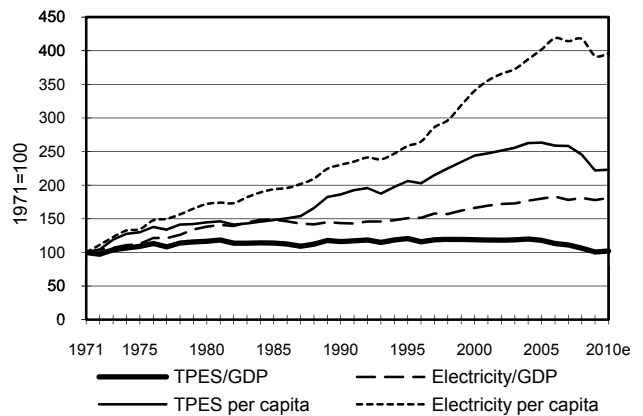


Figure 6. Selected indicators



\* Excluding electricity trade.

\*\* Includes non-energy use.

\*\*\* Includes residential, commercial and public services, agriculture/forestry, fishing and non-specified.

\*\*\*\* Includes biofuels and waste, direct use of geothermal/solar thermal and heat produced in CHP/heat plants.

\*\*\*\*\* Includes geothermal, solar, wind, biofuels and waste, etc.

## Sweden : 2008

Million tonnes of oil equivalent											
<b>SUPPLY AND CONSUMPTION</b>	Coal & peat	Crude oil*	Oil products	Natural gas	Nuclear	Hydro	Geotherm. solar etc.	Biofuels & waste	Electricity	Heat	Total
Production	0.25	-	-	-	16.65	5.94	0.18	9.93	-	0.28	33.23
Imports	2.30	21.74	7.41	0.83	-	-	-	-	1.10	-	33.38
Exports	-0.03	-0.47	-11.93	-	-	-	-	-	-1.27	-	-13.69
Intl. marine bunkers	-	-	-2.01	-	-	-	-	-	-	-	-2.01
Intl. aviation bunkers	-	-	-0.78	-	-	-	-	-	-	-	-0.78
Stock changes	-0.09	-0.44	0.01	-	-	-	-	-	-	-	-0.52
<b>TPES</b>	<b>2.43</b>	<b>20.83</b>	<b>-7.30</b>	<b>0.83</b>	<b>16.65</b>	<b>5.94</b>	<b>0.18</b>	<b>9.93</b>	<b>-0.17</b>	<b>0.28</b>	<b>49.60</b>
Transfers	-	1.06	-0.96	-	-	-	-	-	-	-	0.09
Statistical differences	0.37	-0.01	-0.24	-0.02	-	-	-	-0.00	-	-	0.10
Electricity plants	-	-	-0.03	-	-16.65	-5.94	-0.17	-	11.62	-	-11.17
CHP plants	-0.72	-	-0.12	-0.22	-	-	-	-3.50	1.27	2.61	-0.68
Heat plants	-0.10	-	-0.06	-0.01	-	-	-	-1.16	-0.15	1.35	-0.13
Blast furnaces	-0.61 e	-	-	-	-	-	-	-	-	-	-0.61
Gas works	0.02	-	-0.02	-0.01	-	-	-	-	-	-	0.00
Coke/pat. fuel/BKB plants	-0.41	-	-0.04	-	-	-	-	-	-	-	-0.45
Oil refineries	-	-21.88	21.09	-	-	-	-	-	-	-	-0.79
Petrochemical plants	-	-	-	-	-	-	-	-	-	-	-
Liquefaction plants	-	-	-	-	-	-	-	-	-	-	-
Other transformation	-	-	-	-	-	-	-	-	-	-	-
Energy industry own use	-0.10	-	-0.78	-0.01	-	-	-	-	-0.57	-	-1.46
Losses	-0.05	-	-	-	-	-	-	-	-0.94	-0.18	-1.17
<b>TFC</b>	<b>0.84</b>	<b>-</b>	<b>11.54</b>	<b>0.56</b>	<b>-</b>	<b>-</b>	<b>0.01</b>	<b>5.26</b>	<b>11.06</b>	<b>4.06</b>	<b>33.34</b>
<b>INDUSTRY</b>	<b>0.80</b>	<b>-</b>	<b>1.30</b>	<b>0.37</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>3.86</b>	<b>4.96</b>	<b>0.38</b>	<b>11.67</b>
Iron and steel	0.44 e	-	0.31	0.03 e	-	-	-	-	0.45	-	1.23
Chemical and petrochem.	0.01	-	0.09	0.16 e	-	-	-	0.01	0.51	-	0.77
Non-ferrous metals	0.04	-	0.03	0.01 e	-	-	-	-	0.26	-	0.33
Non-metallic minerals	0.20	-	0.11	0.03 e	-	-	-	-	0.11	-	0.44
Transport equipment	0.01	-	0.03	0.01 e	-	-	-	-	0.18	-	0.23
Machinery	0.00	-	0.07	0.01 e	-	-	-	-	0.13	-	0.21
Mining and quarrying	0.08	-	0.08	-	-	-	-	-	0.26	-	0.41
Food and tobacco	0.00	-	0.08	0.08 e	-	-	-	0.02	0.21	-	0.40
Paper, pulp and printing	0.01	-	0.37	0.02 e	-	-	-	3.44	2.11	-	5.96
Wood and wood products	0.00	-	0.02	0.00 e	-	-	-	0.38	0.19	-	0.59
Construction	-	-	-	0.00 e	-	-	-	-	0.08	-	0.08
Textile and leather	-	-	0.01	0.00 e	-	-	-	-	0.02	-	0.04
Non-specified	0.01	-	0.10	0.02 e	-	-	-	0.01	0.45	0.38	0.97
<b>TRANSPORT</b>	<b>-</b>	<b>-</b>	<b>7.26</b>	<b>0.02</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.36</b>	<b>0.20</b>	<b>-</b>	<b>7.85</b>
Domestic aviation	-	-	0.21	-	-	-	-	-	-	-	0.21
Road	-	-	6.96	0.02 e	-	-	-	0.36	-	-	7.35
Rail	-	-	0.00	-	-	-	-	-	0.20	-	0.21
Pipeline transport	-	-	-	-	-	-	-	-	-	-	-
Domestic navigation	-	-	0.08	-	-	-	-	-	-	-	0.08
Non-specified	-	-	-	-	-	-	-	-	-	-	-
<b>OTHER</b>	<b>0.02</b>	<b>-</b>	<b>0.67</b>	<b>0.16</b>	<b>-</b>	<b>-</b>	<b>0.01</b>	<b>1.04</b>	<b>5.90</b>	<b>3.69</b>	<b>11.49</b>
Residential	0.01	-	0.10	0.04 e	-	-	0.01	0.68	3.35	2.45	6.64
Comm. and public services	0.01	-	0.34	0.10 e	-	-	-	0.05	2.42	1.22	4.13
Agriculture/forestry	-	-	0.19	0.02 e	-	-	-	0.32	0.14	0.01	0.68
Fishing	-	-	0.04	-	-	-	-	-	-	-	0.04
Non-specified	-	-	0.01	-	-	-	-	-	-	-	0.01
<b>NON-ENERGY USE</b>	<b>0.02</b>	<b>-</b>	<b>2.31</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>2.33</b>
in industry/transf./energy	0.02	-	2.08	-	-	-	-	-	-	-	2.10
<i>of which: feedstocks</i>	-	-	1.33	-	-	-	-	-	-	-	1.33
in transport	-	-	0.23	-	-	-	-	-	-	-	0.23
in other	-	-	-	-	-	-	-	-	-	-	-
<b>Electricity and Heat Output</b>											
<b>Elec. generated - TWh</b>	<b>2.24</b>	<b>-</b>	<b>0.87</b>	<b>0.60</b>	<b>63.89</b>	<b>69.07</b>	<b>2.00</b>	<b>11.23</b>	<b>-</b>	<b>-</b>	<b>149.89</b>
Electricity plants	-	-	0.17	-	63.89	69.07	2.00	-	-	-	135.13
CHP plants	2.24	-	0.71	0.60	-	-	-	11.23	-	-	14.77
<b>Heat generated - PJ</b>	<b>20.83</b>	<b>-</b>	<b>4.06</b>	<b>6.25</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>125.46</b>	<b>0.52</b>	<b>20.51</b>	<b>177.63</b>
CHP plants	17.34	-	1.94	6.01	-	-	-	84.14	0.19	5.24	114.86
Heat plants	3.48	-	2.13	0.24	-	-	-	41.32	0.33	15.27	62.78

\* Includes crude oil, NGL, refinery feedstocks, additives and other hydrocarbons.

## Sweden : 2009

Million tonnes of oil equivalent											
SUPPLY AND CONSUMPTION	Coal & peat	Crude oil*	Oil products	Natural gas	Nuclear	Hydro	Geotherm. solar etc.	Biofuels & waste	Electricity	Heat	Total
Production	0.21	-	-	-	13.60	5.66	0.22	10.38	-	0.27	30.35
Imports	1.54	19.59	7.37	1.10	-	-	-	-	1.18	-	30.79
Exports	-0.19	-0.38	-11.68	-	-	-	-	-	-0.78	-	-13.03
Intl. marine bunkers	-	-	-2.09	-	-	-	-	-	-	-	-2.09
Intl. aviation bunkers	-	-	-0.71	-	-	-	-	-	-	-	-0.71
Stock changes	0.36	0.32	-0.58	-	-	-	-	-	-	-	0.11
<b>TPES</b>	<b>1.93</b>	<b>19.54</b>	<b>-7.70</b>	<b>1.10</b>	<b>13.60</b>	<b>5.66</b>	<b>0.22</b>	<b>10.38</b>	<b>0.40</b>	<b>0.27</b>	<b>45.41</b>
Transfers	-	1.05	-0.96	-	-	-	-	-	-	-	0.09
Statistical differences	0.06	0.27	-0.02	0.02	-	-	-	-	-	-	0.33
Electricity plants	-	-	-0.03	-	-13.60	-5.66	-0.21	-	10.38	-	-9.13
CHP plants	-0.66	-	-0.19	-0.54	-	-	-	-3.76	1.37	2.81	-0.97
Heat plants	-0.05	-	-0.09	-0.01	-	-	-	-1.16	-0.14	1.39	-0.07
Blast furnaces	-0.41	-	-	-	-	-	-	-	-	-	-0.41
Gas works	0.02	-	-0.01	-0.00	-	-	-	-	-	-	0.00
Coke/pat. fuel/BKB plants	-0.29	-	-0.01	-	-	-	-	-	-	-	-0.29
Oil refineries	-	-20.85	20.46	-	-	-	-	-	-	-	-0.39
Petrochemical plants	-	-	-	-	-	-	-	-	-	-	-
Liquefaction plants	-	-	-	-	-	-	-	-	-	-	-
Other transformation	-	-	-	-	-	-	-	-	-	-	-
Energy industry own use	-0.09	-	-0.84	-0.00	-	-	-	-	-0.55	-	-1.48
Losses	-0.04	-	-	-	-	-	-	-	-0.85	-0.21	-1.10
<b>TFC</b>	<b>0.47</b>	<b>-</b>	<b>10.61</b>	<b>0.57</b>	<b>-</b>	<b>-</b>	<b>0.01</b>	<b>5.45</b>	<b>10.61</b>	<b>4.26</b>	<b>31.98</b>
<b>INDUSTRY</b>	<b>0.44</b>	<b>-</b>	<b>1.06</b>	<b>0.41</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>4.03</b>	<b>4.42</b>	<b>0.38</b>	<b>10.74</b>
Iron and steel	0.17	-	0.21	0.03	-	-	-	-	0.31	-	0.73
Chemical and petrochem.	0.01	-	0.06	0.18	-	-	-	0.01	0.38	-	0.64
Non-ferrous metals	0.04	-	0.03	0.01	-	-	-	-	0.20	-	0.27
Non-metallic minerals	0.15	-	0.11	0.04	-	-	-	-	0.08	-	0.38
Transport equipment	0.01	-	0.02	0.01	-	-	-	-	0.15	-	0.19
Machinery	-	-	0.05	0.01	-	-	-	-	0.18	-	0.24
Mining and quarrying	0.06	-	0.06	-	-	-	-	-	0.21	-	0.33
Food and tobacco	0.00	-	0.08	0.10	-	-	-	0.02	0.21	-	0.41
Paper, pulp and printing	0.01	-	0.34	0.01	-	-	-	3.64	1.92	-	5.92
Wood and wood products	0.00	-	0.02	0.00	-	-	-	0.34	0.18	-	0.54
Construction	-	-	-	0.00	-	-	-	-	0.09	-	0.09
Textile and leather	-	-	0.01	0.00	-	-	-	-	0.01	-	0.03
Non-specified	0.00	-	0.07	0.01	-	-	-	0.02	0.50	0.38	0.98
<b>TRANSPORT</b>	<b>-</b>	<b>-</b>	<b>7.06</b>	<b>0.02</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.38</b>	<b>0.21</b>	<b>-</b>	<b>7.67</b>
Domestic aviation	-	-	0.14	-	-	-	-	-	-	-	0.14
Road	-	-	6.79	0.02	-	-	-	0.38	-	-	7.19
Rail	-	-	0.00	-	-	-	-	-	0.21	-	0.21
Pipeline transport	-	-	-	-	-	-	-	-	-	-	-
Domestic navigation	-	-	0.13	-	-	-	-	-	-	-	0.13
Non-specified	-	-	-	-	-	-	-	-	-	-	-
<b>OTHER</b>	<b>0.01</b>	<b>-</b>	<b>0.84</b>	<b>0.14</b>	<b>-</b>	<b>-</b>	<b>0.01</b>	<b>1.05</b>	<b>5.98</b>	<b>3.88</b>	<b>11.91</b>
Residential	0.01	-	0.08	0.07	-	-	0.01	0.68	3.52	2.58	6.95
Comm. and public services	0.01	-	0.55	0.05	-	-	-	0.05	2.30	1.29	4.23
Agriculture/forestry	-	-	0.18	0.02	-	-	-	0.32	0.16	0.01	0.68
Fishing	-	-	0.03	-	-	-	-	-	-	-	0.03
Non-specified	-	-	0.01	-	-	-	-	-	-	-	0.01
<b>NON-ENERGY USE</b>	<b>0.01</b>	<b>-</b>	<b>1.64</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1.65</b>
in industry/transf./energy	0.01	-	1.59	-	-	-	-	-	-	-	1.60
<i>of which: feedstocks</i>	-	-	1.08	-	-	-	-	-	-	-	1.08
in transport	-	-	0.06	-	-	-	-	-	-	-	0.06
in other	-	-	-	-	-	-	-	-	-	-	-
<b>Electricity and Heat Output</b>											
<b>Elec. generated - TWh</b>	<b>1.60</b>	<b>-</b>	<b>0.73</b>	<b>1.55</b>	<b>52.17</b>	<b>65.85</b>	<b>2.49</b>	<b>12.20</b>	<b>-</b>	<b>-</b>	<b>136.59</b>
Electricity plants	-	-	0.16	-	52.17	65.85	2.49	-	-	-	120.68
CHP plants	1.60	-	0.57	1.55	-	-	-	12.20	-	-	15.91
<b>Heat generated - PJ</b>	<b>17.90</b>	<b>-</b>	<b>6.12</b>	<b>16.38</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>126.60</b>	<b>0.63</b>	<b>19.52</b>	<b>187.15</b>
CHP plants	16.17	-	2.55	15.94	-	-	-	83.05	0.29	5.44	123.44
Heat plants	1.73	-	3.57	0.44	-	-	-	43.55	0.34	14.09	63.71

\* Includes crude oil, NGL, refinery feedstocks, additives and other hydrocarbons.



## Sweden

## Estimated energy supply balance for 2010

Million tonnes of oil equivalent											
SUPPLY	Coal & peat	Crude oil*	Oil products	Natural gas	Nuclear	Hydro	Geotherm. solar etc.	Biofuels & waste	Electricity	Heat	Total
Production	0.26	-	-	-	15.00	6.13	0.31	10.63	-	0.21	32.55
Imports	2.57	20.37	7.93	1.51	-	-	-	-	1.28	-	33.66
Exports	-0.02	-0.85	-11.90	-	-	-	-	-	-1.11	-	-13.88
Intl. marine bunkers	-	-	-1.95	-	-	-	-	-	-	-	-1.95
Intl. aviation bunkers	-	-	-0.66	-	-	-	-	-	-	-	-0.66
Stock changes	-0.29	0.22	1.12	-	-	-	-	-	-	-	1.05
<b>TPES</b>	<b>2.51</b>	<b>19.75</b>	<b>-5.46</b>	<b>1.51</b>	<b>15.00</b>	<b>6.13</b>	<b>0.31</b>	<b>10.63</b>	<b>0.18</b>	<b>0.21</b>	<b>50.78</b>
Electricity and Heat Output											
Elec. generated - TWh	3.50	-	2.72	4.27	57.57	71.32	3.49	9.91	-	-	152.79
Heat generated - PJ	19.78	-	16.69	12.64	-	-	-	142.00	0.41	16.72	208.23

\* Includes crude oil, NGL, refinery feedstocks, additives and other hydrocarbons.

## Key indicators

	1960	1971	1980	1990	2000	2008	2009	2010e
Energy production (Mtoe)	5.5	7.4	16.1	29.7	30.5	33.2	30.4	32.6
Net imports (Mtoe)	15.9	31.1	27.6	18.3	19.3	19.7	17.8	19.8
Total primary energy supply (Mtoe)	20.2	36.0	40.5	47.2	47.6	49.6	45.4	50.8
Net oil imports (Mtoe)	13.5	29.2	25.9	15.3	15.7	16.8	14.9	15.6
Oil supply (Mtoe)	12.2	26.8	22.6	14.3	13.6	13.5	11.8	14.3
Electricity consumption (TWh)*	30.0	62.2	89.0	135.5	139.1	137.1	131.5	145.2
GDP (billion 2000 USD)	84.5 e	134.1	161.5	201.0	247.3	302.4	286.3	302.1
GDP PPP (billion 2000 USD)	84.7 e	134.5	162.0	201.6	248.0	303.3	287.1	303.0
Population (millions)	7.48 e	8.10	8.31	8.56	8.87	9.22	9.30	9.38
Industrial production index (2005=100)	25.50	46.70	50.90	64.30	92.40	104.50	85.80	93.20
Total self-sufficiency**	0.2714	0.2049	0.3984	0.6289	0.6418	0.6700	0.6683	0.6410
Coal and peat self-sufficiency**	0.0585	..	0.0042	0.0565	0.0660	0.1028	0.1088	0.1018
Oil self-sufficiency**	0.0081	..	0.0011	0.0002	-	-	-	-
Natural gas self-sufficiency**	..	..	-	-	-	-	-	-
TPES/GDP (toe per thousand 2000 USD)	0.2392 e	0.2687	0.2506	0.2348	0.1923	0.1640	0.1586	0.1681
TPES/GDP PPP (toe per thousand 2000 USD)	0.2385 e	0.2680	0.2499	0.2341	0.1918	0.1636	0.1582	0.1676
TPES/population (toe per capita)	2.7005 e	4.4506	4.8719	5.5144	5.3602	5.3797	4.8831	5.4140
Net oil imports/GDP (toe per thousand 2000 USD)	0.1593 e	0.2179	0.1604	0.0760	0.0636	0.0554	0.0520	0.0515
Oil supply/GDP (toe per thousand 2000 USD)	0.1447 e	0.1997	0.1402	0.0711	0.0549	0.0447	0.0414	0.0473
Oil supply/population (toe per capita)	1.6338 e	3.3082	2.7243	1.6711	1.5295	1.4675	1.2734	1.5234
Elect. cons./GDP (kWh per 2000 USD)	0.3547 e	0.4634	0.5507	0.6742	0.5627	0.4534	0.4594	0.4805
Elect. cons./population (kWh per capita)	4005 e	7675	10704	15836	15682	14869	14141	15477
Industry cons.***/industrial production (2005=100)	262.50	214.88	187.61	151.69	117.24	93.76	102.32	..
Industry oil cons.***/industrial production (2005=100)	438.31	432.78	304.87	157.66	127.35	82.63	78.83	..

\* Electricity consumption equals domestic supply less losses.

\*\* Production divided by TPES.

\*\*\* Includes non-energy use.

Sweden

Figure 1. Energy production

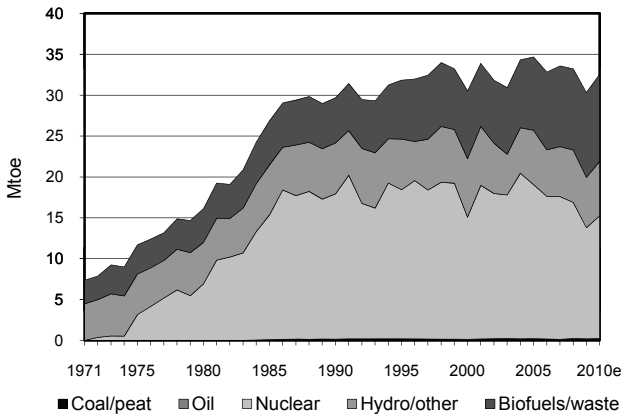


Figure 2. Total primary energy supply\*

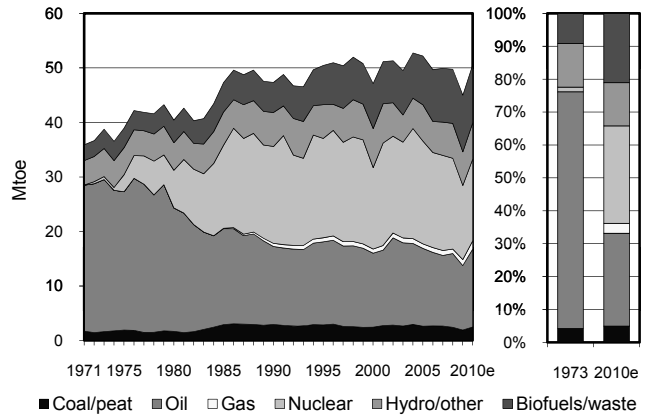


Figure 3. Energy self-sufficiency

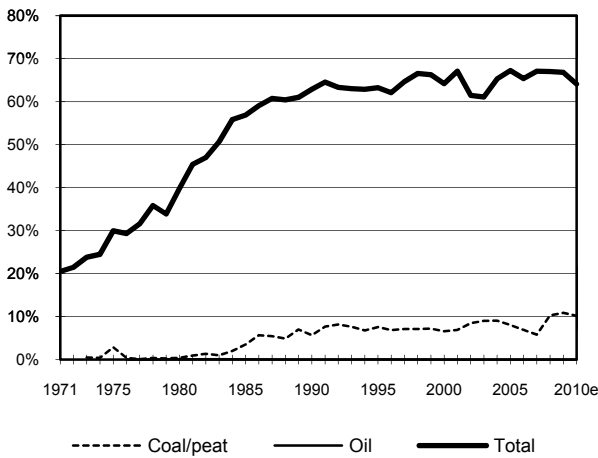


Figure 4. Breakdown of sectorial final consumption by source in 1973 and 2009\*\*

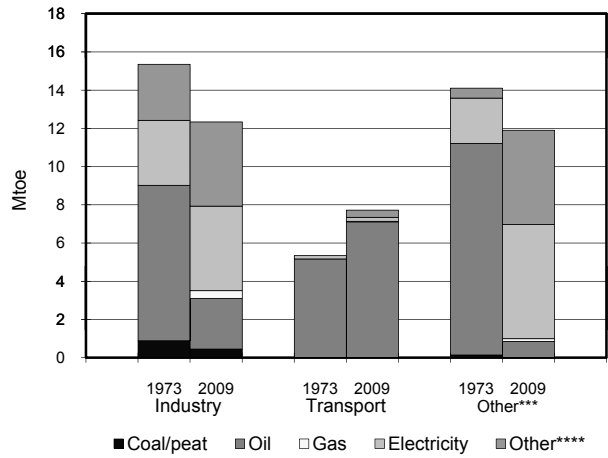


Figure 5. Electricity generation by fuel

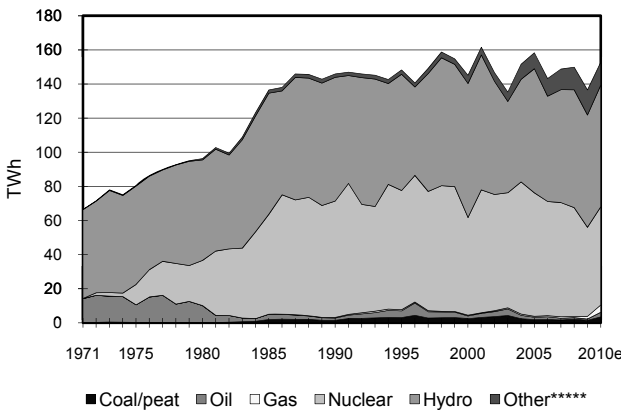
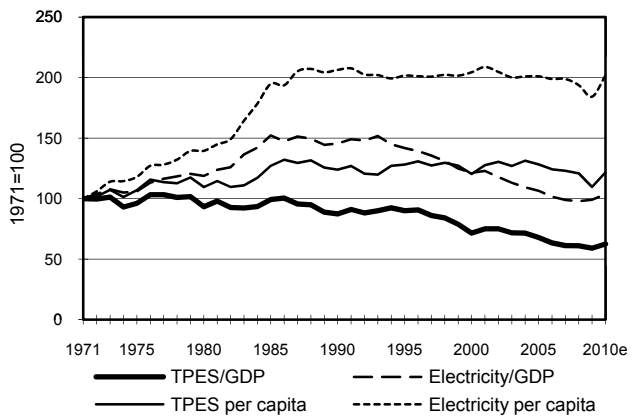


Figure 6. Selected indicators



\* Excluding electricity trade.  
 \*\* Includes non-energy use.  
 \*\*\* Includes residential, commercial and public services, agriculture/forestry, fishing and non-specified.  
 \*\*\*\* Includes biofuels and waste, direct use of geothermal/solar thermal and heat produced in CHP/heat plants.  
 \*\*\*\*\* Includes geothermal, solar, wind, biofuels and waste, etc.

## Switzerland : 2008

Million tonnes of oil equivalent											
SUPPLY AND CONSUMPTION	Coal & peat	Crude oil*	Oil products	Natural gas	Nuclear	Hydro	Geotherm. solar etc.	Biofuels & waste	Electricity	Heat	Total
Production	-	-	-	-	7.25	3.10	0.23	2.23	-	0.00	12.80
Imports	0.16	5.30	7.89	2.81	-	-	-	0.02	2.72	-	18.89
Exports	-	-	-0.63	-	-	-	-	-0.01	-2.82	-	-3.45
Intl. marine bunkers	-	-	-0.01	-	-	-	-	-	-	-	-0.01
Intl. aviation bunkers	-	-	-1.40	-	-	-	-	-	-	-	-1.40
Stock changes	0.00	-0.02	-0.04	-	-	-	-	-	-	-	-0.06
<b>TPES</b>	<b>0.16</b>	<b>5.27</b>	<b>5.82</b>	<b>2.81</b>	<b>7.25</b>	<b>3.10</b>	<b>0.23</b>	<b>2.24</b>	<b>-0.10</b>	<b>0.00</b>	<b>26.78</b>
Transfers	-	-	-	-	-	-	-	-	-	-	-
Statistical differences	-	0.00	0.43	-	-	-	-	-	-	-	0.43
Electricity plants	-	-	-0.00	-	-7.22	-3.10	-0.00	-0.08	5.50	-	-4.91
CHP plants	-	-	-0.01	-0.10	-0.03	-	-	-1.02	0.26	0.32	-0.59
Heat plants	-	-	-0.01	-0.11	-	-	-	-0.00	-0.00	0.10	-0.02
Blast furnaces	-	-	-	-	-	-	-	-	-	-	-
Gas works	0.00	-	-0.00	0.00	-	-	-	-0.00	-	-	0.00
Coke/pat. fuel/BKB plants	-	-	-	-	-	-	-	-	-	-	-
Oil refineries	-	-5.27	5.23	-	-	-	-	-	-	-	-0.04
Petrochemical plants	-	-	-	-	-	-	-	-	-	-	-
Liquefaction plants	-	-	-	-	-	-	-	-	-	-	-
Other transformation	-	-	-	-	-	-	-	-	-	-	-
Energy industry own use	-	-	-0.36	-0.00	-	-	-	-	-0.25	-	-0.61
Losses	-0.00	-	-	-0.02	-	-	-	-	-0.37	-0.04	-0.42
<b>TFC</b>	<b>0.16</b>	<b>-</b>	<b>11.10</b>	<b>2.58</b>	<b>-</b>	<b>-</b>	<b>0.22</b>	<b>1.13</b>	<b>5.05</b>	<b>0.39</b>	<b>20.62</b>
<b>INDUSTRY</b>	<b>0.15</b>	<b>-</b>	<b>0.76</b>	<b>0.90</b>	<b>-</b>	<b>-</b>	<b>0.01</b>	<b>0.46</b>	<b>1.66</b>	<b>0.16</b>	<b>4.10</b>
Iron and steel	0.02	-	0.01	0.08	-	-	-	0.00	0.13	-	0.24
Chemical and petrochem.	-	-	0.08	0.28	-	-	-	0.09	0.31	0.03 e	0.78
Non-ferrous metals	-	-	0.00	0.02	-	-	-	-	0.03	0.00 e	0.05
Non-metallic minerals	0.13	-	0.08	0.06	-	-	-	0.12	0.10	0.00 e	0.49
Transport equipment	-	-	-	-	-	-	-	-	-	-	-
Machinery	-	-	0.20	0.09	-	-	-	0.00	0.37	0.02 e	0.68
Mining and quarrying	-	-	-	-	-	-	-	-	-	-	-
Food and tobacco	0.00	-	0.10	0.16	-	-	-	0.00	0.17	0.01 e	0.45
Paper, pulp and printing	-	-	0.07	0.12	-	-	-	0.07	0.22	0.08 e	0.56
Wood and wood products	-	-	-	-	-	-	-	-	-	-	-
Construction	-	-	0.10	0.01	-	-	-	0.06	0.05	-	0.22
Textile and leather	-	-	0.02	0.02	-	-	-	0.00	0.03	0.00 e	0.07
Non-specified	0.00	-	0.10	0.05	-	-	0.01	0.11	0.25	0.02 e	0.55
<b>TRANSPORT</b>	<b>-</b>	<b>-</b>	<b>5.83</b>	<b>0.01</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.01</b>	<b>0.27</b>	<b>-</b>	<b>6.12</b>
Domestic aviation	-	-	0.06	-	-	-	-	-	-	-	0.06
Road	-	-	5.75	0.01	-	-	-	0.01	-	-	5.77
Rail	-	-	0.01	-	-	-	-	-	0.27	-	0.28
Pipeline transport	-	-	-	-	-	-	-	-	-	-	-
Domestic navigation	-	-	0.01	-	-	-	-	-	-	-	0.01
Non-specified	-	-	-	-	-	-	-	-	-	-	-
<b>OTHER</b>	<b>0.01</b>	<b>-</b>	<b>3.96</b>	<b>1.67</b>	<b>-</b>	<b>-</b>	<b>0.21</b>	<b>0.66</b>	<b>3.12</b>	<b>0.23</b>	<b>9.86</b>
Residential	0.01	-	2.73	0.99	-	-	0.18	0.41	1.54	0.14	6.00
Comm. and public services	-	-	1.06	0.52	-	-	0.03	0.23	1.50	0.09	3.42
Agriculture/forestry	-	-	-	0.16	-	-	0.01	0.02	0.09	-	0.27
Fishing	-	-	-	-	-	-	-	-	-	-	-
Non-specified	0.00	-	0.17	-	-	-	-	-	-	-	0.17
<b>NON-ENERGY USE</b>	<b>-</b>	<b>-</b>	<b>0.55</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.55</b>
in industry/transf./energy	-	-	0.52	-	-	-	-	-	-	-	0.52
<i>of which: feedstocks</i>	-	-	0.13	-	-	-	-	-	-	-	0.13
in transport	-	-	0.03	-	-	-	-	-	-	-	0.03
in other	-	-	-	-	-	-	-	-	-	-	-
<b>Electricity and Heat Output</b>											
<b>Elec. generated - TWh</b>	<b>-</b>	<b>-</b>	<b>0.13</b>	<b>0.73</b>	<b>27.70</b>	<b>36.04</b>	<b>0.05</b>	<b>2.40</b>	<b>-</b>	<b>-</b>	<b>67.04</b>
Electricity plants	-	-	0.01	-	27.70	36.04	0.05	0.18	-	-	63.98
CHP plants	-	-	0.11	0.73	-	-	-	2.22	-	-	3.06
<b>Heat generated - PJ</b>	<b>-</b>	<b>-</b>	<b>0.32</b>	<b>4.77</b>	<b>1.29</b>	<b>-</b>	<b>-</b>	<b>11.36</b>	<b>-</b>	<b>0.11</b>	<b>17.84</b>
CHP plants	-	-	0.09	0.84	1.29	-	-	11.34	-	-	13.56
Heat plants	-	-	0.23	3.92	-	-	-	0.02	-	0.11	4.28

\* Includes crude oil, NGL, refinery feedstocks, additives and other hydrocarbons.

## Switzerland : 2009

Million tonnes of oil equivalent											
SUPPLY AND CONSUMPTION	Coal & peat	Crude oil*	Oil products	Natural gas	Nuclear	Hydro	Geotherm. solar etc.	Biofuels & waste	Electricity	Heat	Total
Production	-	-	-	-	7.25	3.07	0.26	2.19	-	0.00	12.77
Imports	0.17	4.98	8.47	2.69	-	-	-	0.03	2.70	-	19.04
Exports	-	-	-0.50	-	-	-	-	-0.01	-2.88	-	-3.40
Intl. marine bunkers	-	-	-0.01	-	-	-	-	-	-	-	-0.01
Intl. aviation bunkers	-	-	-1.34	-	-	-	-	-	-	-	-1.34
Stock changes	-0.02	0.03	-0.12	-	-	-	-	-0.00	-	-	-0.10
<b>TPES</b>	<b>0.15</b>	<b>5.01</b>	<b>6.50</b>	<b>2.69</b>	<b>7.25</b>	<b>3.07</b>	<b>0.26</b>	<b>2.20</b>	<b>-0.19</b>	<b>0.00</b>	<b>26.95</b>
Transfers	-	-	-	-	-	-	-	-	-	-	-
Statistical differences	-	0.00	-0.32	-	-	-	-	0.00	-	-	-0.32
Electricity plants	-	-	-0.00	-	-7.22	-3.07	-0.01	-0.08	5.48	-	-4.91
CHP plants	-	-	-0.01	-0.10	-0.03	-	-	-1.02	0.26	0.33	-0.58
Heat plants	-	-	-0.01	-0.10	-	-	-	-0.00	-0.00	0.10	-0.02
Blast furnaces	-	-	-	-	-	-	-	-	-	-	-
Gas works	-	-	-	0.00	-	-	-	-0.00	-	-	-0.00
Coke/pat. fuel/BKB plants	-	-	-	-	-	-	-	-	-	-	-
Oil refineries	-	-5.02	4.96	-	-	-	-	-	-	-	-0.05
Petrochemical plants	-	-	-	-	-	-	-	-	-	-	-
Liquefaction plants	-	-	-	-	-	-	-	-	-	-	-
Other transformation	-	-	-	-	-	-	-	-	-	-	-
Energy industry own use	-	-	-0.35	-0.00	-	-	-	-	-0.24	-	-0.59
Losses	-	-	-	-0.02	-	-	-	-	-0.36	-0.04	-0.42
<b>TFC</b>	<b>0.15</b>	<b>-</b>	<b>10.77</b>	<b>2.47</b>	<b>-</b>	<b>-</b>	<b>0.25</b>	<b>1.10</b>	<b>4.94</b>	<b>0.38</b>	<b>20.07</b>
<b>INDUSTRY</b>	<b>0.14</b>	<b>-</b>	<b>0.71</b>	<b>0.82</b>	<b>-</b>	<b>-</b>	<b>0.02</b>	<b>0.42</b>	<b>1.57</b>	<b>0.15</b>	<b>3.82</b>
Iron and steel	0.01	-	0.01	0.06	-	-	-	0.00	0.10	-	0.18
Chemical and petrochem.	-	-	0.07	0.23	-	-	-	0.08	0.31	0.03 e	0.73
Non-ferrous metals	-	-	0.00	0.02	-	-	-	-	0.03	0.00 e	0.05
Non-metallic minerals	0.13	-	0.07	0.07	-	-	-	0.12	0.10	0.00 e	0.49
Transport equipment	-	-	-	-	-	-	-	-	-	-	-
Machinery	-	-	0.18	0.08	-	-	-	0.00	0.33	0.02 e	0.62
Mining and quarrying	-	-	-	-	-	-	-	-	-	-	-
Food and tobacco	0.00	-	0.11	0.19	-	-	-	0.00	0.20	0.01 e	0.50
Paper, pulp and printing	-	-	0.06	0.09	-	-	-	0.04	0.20	0.07 e	0.46
Wood and wood products	-	-	-	-	-	-	-	-	-	-	-
Construction	-	-	0.10	0.01	-	-	-	0.06	0.06	-	0.23
Textile and leather	-	-	0.02	0.01	-	-	-	0.00	0.02	0.00 e	0.06
Non-specified	-	-	0.09	0.05	-	-	0.02	0.11	0.23	0.02 e	0.50
<b>TRANSPORT</b>	<b>-</b>	<b>-</b>	<b>5.76</b>	<b>0.01</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.01</b>	<b>0.26</b>	<b>-</b>	<b>6.04</b>
Domestic aviation	-	-	0.05	-	-	-	-	-	-	-	0.05
Road	-	-	5.68	0.01	-	-	-	0.01	-	-	5.70
Rail	-	-	0.01	-	-	-	-	-	0.26	-	0.28
Pipeline transport	-	-	-	-	-	-	-	-	-	-	-
Domestic navigation	-	-	0.01	-	-	-	-	-	-	-	0.01
Non-specified	-	-	-	-	-	-	-	-	-	-	-
<b>OTHER</b>	<b>0.01</b>	<b>-</b>	<b>3.81</b>	<b>1.64</b>	<b>-</b>	<b>-</b>	<b>0.23</b>	<b>0.67</b>	<b>3.11</b>	<b>0.23</b>	<b>9.71</b>
Residential	0.01	-	2.63	0.99	-	-	0.19	0.42	1.54	0.14	5.93
Comm. and public services	-	-	1.02	0.50	-	-	0.03	0.23	1.49	0.09	3.35
Agriculture/forestry	-	-	-	0.15	-	-	0.01	0.02	0.09	-	0.27
Fishing	-	-	-	-	-	-	-	-	-	-	-
Non-specified	-	-	0.16	-	-	-	-	-	-	-	0.16
<b>NON-ENERGY USE</b>	<b>-</b>	<b>-</b>	<b>0.50</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.50</b>
in industry/transf./energy	-	-	0.48	-	-	-	-	-	-	-	0.48
<i>of which: feedstocks</i>	-	-	0.10	-	-	-	-	-	-	-	0.10
in transport	-	-	0.03	-	-	-	-	-	-	-	0.03
in other	-	-	-	-	-	-	-	-	-	-	-
<b>Electricity and Heat Output</b>											
<b>Elec. generated - TWh</b>	<b>-</b>	<b>-</b>	<b>0.10</b>	<b>0.68</b>	<b>27.69</b>	<b>35.72</b>	<b>0.07</b>	<b>2.40</b>	<b>-</b>	<b>-</b>	<b>66.67</b>
Electricity plants	-	-	0.02	-	27.69	35.72	0.07	0.18	-	-	63.68
CHP plants	-	-	0.09	0.68	-	-	-	2.22	-	-	2.99
<b>Heat generated - PJ</b>	<b>-</b>	<b>-</b>	<b>0.38</b>	<b>4.63</b>	<b>1.30</b>	<b>-</b>	<b>-</b>	<b>11.41</b>	<b>-</b>	<b>0.10</b>	<b>17.82</b>
CHP plants	-	-	0.07	0.89	1.30	-	-	11.40	-	-	13.67
Heat plants	-	-	0.31	3.74	-	-	-	0.01	-	0.10	4.15

\* Includes crude oil, NGL, refinery feedstocks, additives and other hydrocarbons.

## Switzerland

## Estimated energy supply balance for 2010

Million tonnes of oil equivalent											
SUPPLY	Coal & peat	Crude oil*	Oil products	Natural gas	Nuclear	Hydro	Geotherm. solar etc.	Biofuels & waste	Electricity	Heat	Total
Production	-	-	-	-	6.99	3.10	0.29	2.32	-	0.00	12.71
Imports	0.13	4.69	7.46	3.01	-	-	-	0.03	2.87	-	18.19
Exports	-	-	-0.39	-	-	-	-	-0.01	-2.83	-	-3.23
Intl. marine bunkers	-	-	-0.01	-	-	-	-	-	-	-	-0.01
Intl. aviation bunkers	-	-	-1.39	-	-	-	-	-	-	-	-1.39
Stock changes	0.02	0.00	0.02	-	-	-	-	-0.00	-	-	0.04
<b>TPES</b>	<b>0.15</b>	<b>4.69</b>	<b>5.69</b>	<b>3.01</b>	<b>6.99</b>	<b>3.10</b>	<b>0.29</b>	<b>2.34</b>	<b>0.04</b>	<b>0.00</b>	<b>26.31</b>
Electricity and Heat Output											
Elec. generated - TWh	-	-	0.12	0.79	26.72	36.06	0.07	2.79	-	-	66.56
Heat generated - PJ	-	-	0.42	5.13	1.30	-	-	12.65	-	0.14	19.65

\* Includes crude oil, NGL, refinery feedstocks, additives and other hydrocarbons.

## Key indicators

	1960	1971	1980	1990	2000	2008	2009	2010e
Energy production (Mtoe)	2.1	2.9	7.0	10.3	12.0	12.8	12.8	12.7
Net imports (Mtoe)	5.7	14.1	14.1	15.0	14.1	15.4	15.6	15.0
Total primary energy supply (Mtoe)	7.5	16.4	20.0	24.3	25.0	26.8	27.0	26.3
Net oil imports (Mtoe)	4.2	13.7	13.4	13.2	12.1	12.6	13.0	11.8
Oil supply (Mtoe)	3.8	13.1	12.5	12.3	11.0	11.1	11.5	10.4
Electricity consumption (TWh)*	16.4	28.7	37.9	50.4	56.4	63.5	62.1	64.7
GDP (billion 2000 USD)	100.9 e	165.9	180.4	224.8	249.9	291.9	286.3	293.6
GDP PPP (billion 2000 USD)	92.0 e	151.3	164.6	205.0	227.9	266.2	261.1	267.8
Population (millions)	5.40 e	6.34	6.39	6.80	7.21	7.71	7.80	7.76
Industrial production index (2005=100)	34.20	58.90	64.30	78.30	99.00	119.60	110.20	..
Total self-sufficiency**	0.2833	0.1772	0.3508	0.4215	0.4807	0.4782	0.4736	0.4830
Coal and peat self-sufficiency**	..	..	-	-	-	-	-	-
Oil self-sufficiency**	..	..	-	-	-	-	-	-
Natural gas self-sufficiency**	..	..	-	0.0018	-	-	-	-
TPES/GDP (toe per thousand 2000 USD)	0.0739 e	0.0988	0.1110	0.1082	0.1001	0.0917	0.0941	0.0896
TPES/GDP PPP (toe per thousand 2000 USD)	0.0810 e	0.1083	0.1217	0.1186	0.1097	0.1006	0.1032	0.0982
TPES/population (toe per capita)	1.3795 e	2.5838	3.1380	3.5785	3.4692	3.4724	3.4550	3.3882
Net oil imports/GDP (toe per thousand 2000 USD)	0.0415 e	0.0828	0.0743	0.0587	0.0484	0.0430	0.0452	0.0401
Oil supply/GDP (toe per thousand 2000 USD)	0.0377 e	0.0788	0.0693	0.0545	0.0441	0.0380	0.0402	0.0353
Oil supply/population (toe per capita)	0.7038 e	2.0614	1.9594	1.8033	1.5293	1.4384	1.4760	1.3362
Elect. cons./GDP (kWh per 2000 USD)	0.1625 e	0.1728	0.2099	0.2242	0.2255	0.2176	0.2170	0.2202
Elect. cons./population (kWh per capita)	3033 e	4521	5931	7415	7819	8238	7962	8328
Industry cons.***/industrial production (2005=100)	165.79	162.18	151.36	107.01	97.15	84.41	85.07	..
Industry oil cons.***/industrial production (2005=100)	284.37	411.65	306.76	116.98	103.06	78.20	78.11	..

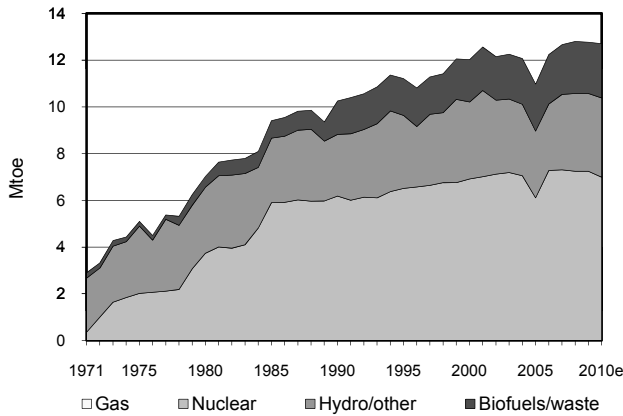
\* Electricity consumption equals domestic supply less losses.

\*\* Production divided by TPES.

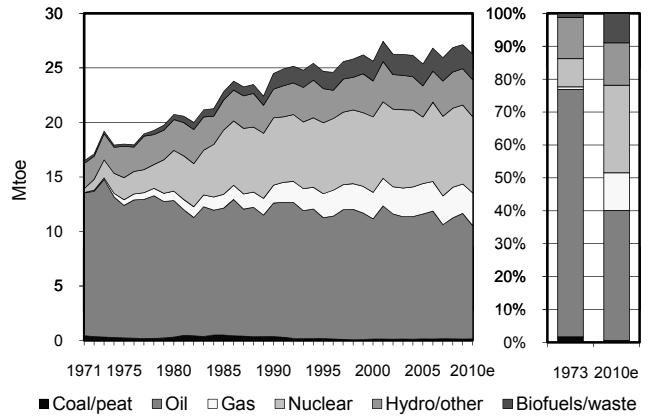
\*\*\* Includes non-energy use.

## Switzerland

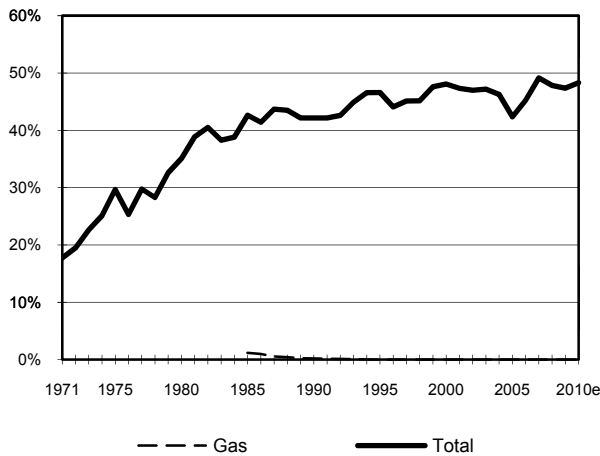
**Figure 1. Energy production**



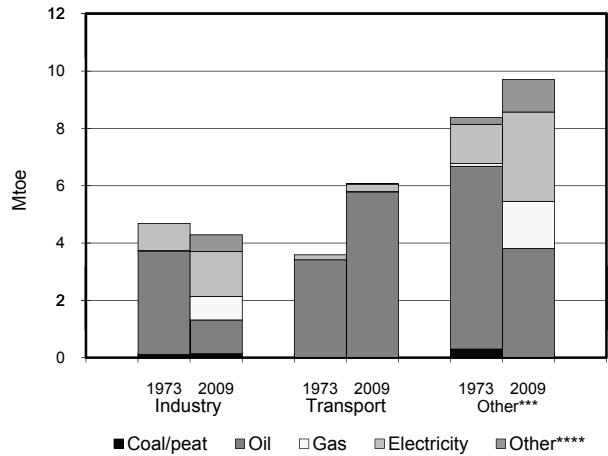
**Figure 2. Total primary energy supply\***



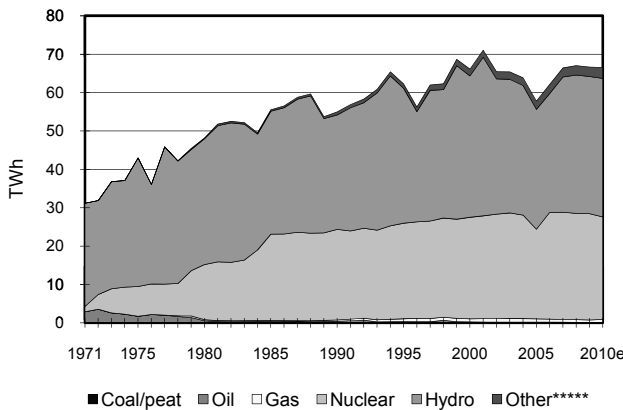
**Figure 3. Energy self-sufficiency**



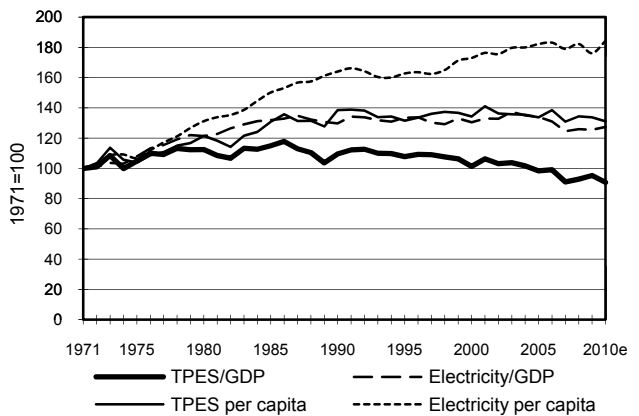
**Figure 4. Breakdown of sectorial final consumption by source in 1973 and 2009\*\***



**Figure 5. Electricity generation by fuel**



**Figure 6. Selected indicators**



\* Excluding electricity trade.

\*\* Includes non-energy use.

\*\*\* Includes residential, commercial and public services, agriculture/forestry, fishing and non-specified.

\*\*\*\* Includes biofuels and waste, direct use of geothermal/solar thermal and heat produced in CHP/heat plants.

\*\*\*\*\* Includes geothermal, solar, wind, biofuels and waste, etc.

## Turkey : 2008

Million tonnes of oil equivalent											
SUPPLY AND CONSUMPTION	Coal & peat	Crude oil*	Oil products	Natural gas	Nuclear	Hydro	Geotherm. solar etc.	Biofuels & waste	Electricity	Heat	Total
Production	16.67	2.13	-	0.84	-	2.86	1.64	4.83	-	-	28.98
Imports	12.86	21.57	14.41	30.60	-	-	-	-	0.07	-	79.50
Exports	-	-	-6.53	-0.36	-	-	-	-	-0.10	-	-6.98
Intl. marine bunkers	-	-	-0.65	-	-	-	-	-	-	-	-0.65
Intl. aviation bunkers	-	-	-1.30	-	-	-	-	-	-	-	-1.30
Stock changes	-0.07	-0.14	0.07	-0.90	-	-	-	-	-	-	-1.04
<b>TPES</b>	<b>29.46</b>	<b>23.56</b>	<b>5.99</b>	<b>30.18</b>	<b>-</b>	<b>2.86</b>	<b>1.64</b>	<b>4.83</b>	<b>-0.03</b>	<b>-</b>	<b>98.50</b>
Transfers	-	-	-	-	-	-	-	-	-	-	-
Statistical differences	0.20	0.70	-0.02	-	-	-	-	-	-	-	0.88
Electricity plants	-14.18	-	-1.58	-14.51	-	-2.86	-0.21	-0.05	16.35	-	-17.05
CHP plants	-0.16	-	-0.13	-1.94	-	-	-	-0.01	0.72	1.02	-0.50
Heat plants	-	-	-	-	-	-	-	-	-	-	-
Blast furnaces	-1.24 e	-	-	-	-	-	-	-	-	-	-1.24
Gas works	-	-	-	-	-	-	-	-	-	-	-
Coke/pat. fuel/BKB plants	-0.65	-	-	-	-	-	-	-	-	-	-0.65
Oil refineries	-	-24.42	24.60	-	-	-	-	-	-	-	0.19
Petrochemical plants	-	0.15	-0.16	-	-	-	-	-	-	-	-0.01
Liquefaction plants	-	-	-	-	-	-	-	-	-	-	-
Other transformation	-	-	-	-	-	-	-	-	-	-	-
Energy industry own use	-0.60	-	-1.26	-0.44	-	-	-	-	-0.96	-	-3.26
Losses	-0.05	-	-	-0.06	-	-	-	-	-2.36	-	-2.47
<b>TFC</b>	<b>12.78</b>	<b>-</b>	<b>27.45</b>	<b>13.23</b>	<b>-</b>	<b>-</b>	<b>1.43</b>	<b>4.77</b>	<b>13.71</b>	<b>1.02</b>	<b>74.38</b>
<b>INDUSTRY</b>	<b>6.12</b>	<b>-</b>	<b>1.33</b>	<b>3.19</b>	<b>-</b>	<b>-</b>	<b>0.13</b>	<b>-</b>	<b>6.22</b>	<b>1.02</b>	<b>18.01</b>
Iron and steel	1.21 e	-	0.10	0.65	-	-	-	-	1.38	-	3.33
Chemical and petrochem.	0.01	-	0.13	0.61	-	-	-	-	0.32	-	1.07
Non-ferrous metals	-	-	0.05	0.10	-	-	-	-	0.21	-	0.36
Non-metallic minerals	-	-	0.50	0.82	-	-	-	-	0.77	-	2.10
Transport equipment	-	-	-	0.04	-	-	-	-	-	-	0.04
Machinery	0.00	-	-	0.13	-	-	-	-	0.31	-	0.44
Mining and quarrying	-	-	-	-	-	-	-	-	0.12	-	0.12
Food and tobacco	0.11	-	0.34	0.15	-	-	-	-	0.42	-	1.02
Paper, pulp and printing	0.03	-	0.05	0.11	-	-	-	-	0.17	-	0.36
Wood and wood products	-	-	-	-	-	-	-	-	0.14	-	0.14
Construction	2.85	-	-	-	-	-	-	-	0.19	-	3.04
Textile and leather	0.09	-	-	0.09	-	-	-	-	0.99	-	1.17
Non-specified	1.82	-	0.16	0.49	-	-	0.13	-	1.20	1.02	4.81
<b>TRANSPORT</b>	<b>-</b>	<b>-</b>	<b>14.79</b>	<b>0.18</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.02</b>	<b>0.08</b>	<b>-</b>	<b>15.07</b>
Domestic aviation	-	-	0.79	-	-	-	-	-	-	-	0.79
Road	-	-	13.36	0.03	-	-	-	0.02	-	-	13.40
Rail	-	-	0.15	-	-	-	-	-	0.02	-	0.17
Pipeline transport	-	-	-	0.16	-	-	-	-	0.01	-	0.17
Domestic navigation	-	-	0.50	-	-	-	-	-	-	-	0.50
Non-specified	-	-	-	-	-	-	-	-	0.05	-	0.05
<b>OTHER</b>	<b>6.66</b>	<b>-</b>	<b>6.22</b>	<b>9.59</b>	<b>-</b>	<b>-</b>	<b>1.30</b>	<b>4.75</b>	<b>7.41</b>	<b>-</b>	<b>35.93</b>
Residential	4.93	-	1.69	6.52	-	-	1.30	4.75	3.40	-	22.60
Comm. and public services	1.06	-	-	3.07	-	-	-	-	3.50	-	7.63
Agriculture/forestry	-	-	4.53	-	-	-	-	-	0.49	-	5.02
Fishing	-	-	-	-	-	-	-	-	0.01	-	0.01
Non-specified	0.66	-	-	-	-	-	-	-	-	-	0.66
<b>NON-ENERGY USE</b>	<b>-</b>	<b>-</b>	<b>5.11</b>	<b>0.26</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>5.37</b>
in industry/transf./energy	-	-	4.53	0.26	-	-	-	-	-	-	4.79
of which: feedstocks	-	-	1.11	0.26	-	-	-	-	-	-	1.37
in transport	-	-	0.58	-	-	-	-	-	-	-	0.58
in other	-	-	-	-	-	-	-	-	-	-	-
<b>Electricity and Heat Output</b>											
<b>Elec. generated - TWh</b>	<b>57.72</b>	<b>-</b>	<b>7.52</b>	<b>98.69</b>	<b>-</b>	<b>33.27</b>	<b>1.01</b>	<b>0.22</b>	<b>-</b>	<b>-</b>	<b>198.42</b>
Electricity plants	57.15	-	6.90	91.55	-	33.27	1.01	0.20	-	-	190.08
CHP plants	0.57	-	0.62	7.14	-	-	-	0.02	-	-	8.34
<b>Heat generated - PJ</b>	<b>0.58</b>	<b>-</b>	<b>0.56</b>	<b>41.40</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>42.54</b>
CHP plants	0.58	-	0.56	41.40	-	-	-	-	-	-	42.54
Heat plants	-	-	-	-	-	-	-	-	-	-	-

\* Includes crude oil, NGL, refinery feedstocks, additives and other hydrocarbons.

## Turkey : 2009

Million tonnes of oil equivalent											
<b>SUPPLY AND CONSUMPTION</b>	Coal & peat	Crude oil*	Oil products	Natural gas	Nuclear	Hydro	Geotherm. solar etc.	Biofuels & waste	Electricity	Heat	Total
Production	17.40	2.37	-	0.56	-	3.09	2.18	4.67	-	-	30.28
Imports	13.34	14.12	18.73	29.52	-	-	-	-	0.07	-	75.77
Exports	-	-	-4.81	-0.58	-	-	-	-	-0.13	-	-5.52
Intl. marine bunkers	-	-	-0.27	-	-	-	-	-	-	-	-0.27
Intl. aviation bunkers	-	-	-1.42	-	-	-	-	-	-	-	-1.42
Stock changes	-0.98	-0.07	0.46	-0.59	-	-	-	-	-	-	-1.17
<b>TPES</b>	<b>29.76</b>	<b>16.42</b>	<b>12.69</b>	<b>28.91</b>	-	<b>3.09</b>	<b>2.18</b>	<b>4.67</b>	<b>-0.06</b>	-	<b>97.66</b>
Transfers	-	-	-	-	-	-	-	-	-	-	-
Statistical differences	-1.02	2.08	-	-	-	-	-	-0.00	-	-	1.05
Electricity plants	-13.32	-	-1.08	-14.47	-	-3.09	-0.50	-0.08	16.12	-	-16.42
CHP plants	-0.18	-	-0.14	-1.90	-	-	-	-0.01	0.63	1.06	-0.53
Heat plants	-	-	-	-	-	-	-	-	-	-	-
Blast furnaces	-1.24 e	-	-	-	-	-	-	-	-	-	-1.24
Gas works	-	-	-	-	-	-	-	-	-	-	-
Coke/pat. fuel/BKB plants	-0.53	-	-	-	-	-	-	-	-	-	-0.53
Oil refineries	-	-18.64	19.00	-	-	-	-	-	-	-	0.36
Petrochemical plants	-	0.14	-0.14	-	-	-	-	-	-	-	-0.00
Liquefaction plants	-	-	-	-	-	-	-	-	-	-	-
Other transformation	-	-	-0.09	-	-	-	-	-	-	-	-0.09
Energy industry own use	-0.57	-	-1.63	-1.29	-	-	-0.13	-	-0.88	-	-4.50
Losses	-0.09	-	-	-0.00	-	-	-	-	-2.49	-	-2.59
<b>TFC</b>	<b>12.81</b>	-	<b>28.60</b>	<b>11.25</b>	-	-	<b>1.55</b>	<b>4.58</b>	<b>13.31</b>	<b>1.06</b>	<b>73.16</b>
<b>INDUSTRY</b>	<b>5.94</b>	-	<b>1.33</b>	<b>4.39</b>	-	-	-	-	<b>5.88</b>	<b>1.06</b>	<b>18.60</b>
Iron and steel	1.05 e	-	0.06	0.48	-	-	-	-	1.38	-	2.97
Chemical and petrochem.	0.16	-	0.33	0.45	-	-	-	-	0.28	-	1.21
Non-ferrous metals	0.06	-	0.02	0.39	-	-	-	-	0.17	-	0.64
Non-metallic minerals	0.05	-	0.32	0.93	-	-	-	-	0.77	-	2.07
Transport equipment	-	-	-	0.06	-	-	-	-	-	-	0.06
Machinery	0.00	-	-	0.03	-	-	-	-	0.34	-	0.38
Mining and quarrying	-	-	-	0.00	-	-	-	-	0.11	-	0.12
Food and tobacco	0.11	-	0.28	0.29	-	-	-	-	0.42	-	1.10
Paper, pulp and printing	0.02	-	0.04	0.15	-	-	-	-	0.16	-	0.36
Wood and wood products	0.26	-	-	0.07	-	-	-	-	0.14	-	0.47
Construction	2.14	-	-	0.01	-	-	-	-	0.17	-	2.31
Textile and leather	0.09	-	-	0.35	-	-	-	-	1.03	-	1.47
Non-specified	2.01	-	0.29	1.18	-	-	-	-	0.92	1.06	5.45
<b>TRANSPORT</b>	-	-	<b>14.69</b>	<b>0.19</b>	-	-	-	<b>0.01</b>	<b>0.06</b>	-	<b>14.94</b>
Domestic aviation	-	-	0.73	-	-	-	-	-	-	-	0.73
Road	-	-	13.23	0.03	-	-	-	0.01	-	-	13.27
Rail	-	-	0.14	-	-	-	-	-	0.02	-	0.16
Pipeline transport	-	-	-	0.15	-	-	-	-	0.03	-	0.18
Domestic navigation	-	-	0.59	-	-	-	-	-	-	-	0.59
Non-specified	-	-	-	-	-	-	-	-	0.01	-	0.01
<b>OTHER</b>	<b>6.87</b>	-	<b>5.91</b>	<b>6.49</b>	-	-	<b>1.55</b>	<b>4.58</b>	<b>7.38</b>	-	<b>32.77</b>
Residential	5.90	-	1.62	4.40	-	-	1.55	4.58	3.37	-	21.40
Comm. and public services	0.83	-	-	2.07	-	-	-	-	3.59	-	6.49
Agriculture/forestry	0.00	-	4.29	0.03	-	-	-	-	0.41	-	4.73
Fishing	-	-	-	0.00	-	-	-	-	0.01	-	0.01
Non-specified	0.13	-	-	-	-	-	-	-	-	-	0.13
<b>NON-ENERGY USE</b>	-	-	<b>6.68</b>	<b>0.18</b>	-	-	-	-	-	-	<b>6.85</b>
in industry/transf./energy	-	-	6.04	0.18	-	-	-	-	-	-	6.22
of which: feedstocks	-	-	2.66	0.18	-	-	-	-	-	-	2.83
in transport	-	-	0.63	-	-	-	-	-	-	-	0.63
in other	-	-	-	-	-	-	-	-	-	-	-
<b>Electricity and Heat Output</b>											
<b>Elec. generated - TWh</b>	<b>55.68</b>	-	<b>4.81</b>	<b>96.10</b>	-	<b>35.96</b>	<b>1.93</b>	<b>0.34</b>	-	-	<b>194.81</b>
Electricity plants	55.07	-	4.27	89.91	-	35.96	1.93	0.32	-	-	187.46
CHP plants	0.61	-	0.53	6.19	-	-	-	0.02	-	-	7.36
<b>Heat generated - PJ</b>	<b>0.56</b>	-	<b>0.91</b>	<b>42.75</b>	-	-	-	-	-	-	<b>44.22</b>
CHP plants	0.56	-	0.91	42.75	-	-	-	-	-	-	44.22
Heat plants	-	-	-	-	-	-	-	-	-	-	-

\* Includes crude oil, NGL, refinery feedstocks, additives and other hydrocarbons.



## Turkey

## Estimated energy supply balance for 2010

Million tonnes of oil equivalent											
SUPPLY	Coal & peat	Crude oil*	Oil products	Natural gas	Nuclear	Hydro	Geotherm. solar etc.	Biofuels & waste	Electricity	Heat	Total
Production	15.75	2.48	-	0.56	-	4.45	2.37	4.67	-	-	30.29
Imports	17.60	17.30	16.04	31.31	-	-	-	-	0.10	-	82.35
Exports	-	-	-5.29	-0.53	-	-	-	-	-0.16	-	-5.99
Intl. marine bunkers	-	-	-0.19	-	-	-	-	-	-	-	-0.19
Intl. aviation bunkers	-	-	-1.58	-	-	-	-	-	-	-	-1.58
Stock changes	-	0.15	-0.28	0.05	-	-	-	-	-	-	-0.07
<b>TPES</b>	<b>33.36</b>	<b>19.93</b>	<b>8.70</b>	<b>31.38</b>	-	<b>4.45</b>	<b>2.37</b>	<b>4.67</b>	<b>-0.07</b>	-	<b>104.80</b>
Electricity and Heat Output											
Elec. generated - TWh	55.05	-	2.18	98.14	-	51.80	3.58	0.46	-	-	211.21
Heat generated - PJ	0.52	-	0.91	42.50	-	-	-	-	-	-	43.92

\* Includes crude oil, NGL, refinery feedstocks, additives and other hydrocarbons.

## Key indicators

	1960	1971	1980	1990	2000	2008	2009	2010e
Energy production (Mtoe)	9.4	13.8	17.1	25.8	25.9	29.0	30.3	30.3
Net imports (Mtoe)	1.1	6.1	14.4	28.1	50.9	72.5	70.3	76.4
Total primary energy supply (Mtoe)	10.7	19.5	31.4	52.8	76.4	98.5	97.7	104.8
Net oil imports (Mtoe)	1.2	6.1	13.7	21.2	29.3	29.5	28.0	28.1
Oil supply (Mtoe)	1.5	9.2	15.6	23.4	30.4	29.6	29.1	28.6
Electricity consumption (TWh)*	2.5	8.8	21.8	50.1	104.5	170.6	165.1	181.4
GDP (billion 2000 USD)	44.5 e	79.3	111.9	186.0	266.6	375.1	357.0	388.9
GDP PPP (billion 2000 USD)	98.4 e	175.3	247.4	411.1	589.2	829.1	789.1	859.7
Population (millions)	27.53 e	36.22	44.44	55.12	64.26	71.08	71.90	72.90
Industrial production index (2005=100)	..	..	..	57.00	80.80	114.20	102.90	116.40
Total self-sufficiency**	0.8766	0.7066	0.5450	0.4893	0.3387	0.2942	0.3101	0.2890
Coal and peat self-sufficiency**	0.9488	0.9782	0.8805	0.7317	0.5451	0.5660	0.5848	0.4722
Oil self-sufficiency**	0.2427	0.3849	0.1452	0.1544	0.0898	0.0722	0.0815	0.0866
Natural gas self-sufficiency**	..	..	-	0.0611	0.0416	0.0277	0.0195	0.0177
TPES/GDP (toe per thousand 2000 USD)	0.2403 e	0.2464	0.2810	0.2837	0.2864	0.2626	0.2736	0.2695
TPES/GDP PPP (toe per thousand 2000 USD)	0.1087 e	0.1115	0.1271	0.1283	0.1296	0.1188	0.1238	0.1219
TPES/population (toe per capita)	0.3882 e	0.5397	0.7076	0.9571	1.1881	1.3858	1.3583	1.4376
Net oil imports/GDP (toe per thousand 2000 USD)	0.0260 e	0.0772	0.1228	0.1142	0.1097	0.0785	0.0786	0.0721
Oil supply/GDP (toe per thousand 2000 USD)	0.0343 e	0.1156	0.1396	0.1258	0.1141	0.0788	0.0816	0.0736
Oil supply/population (toe per capita)	0.0554 e	0.2532	0.3516	0.4246	0.4731	0.4158	0.4050	0.3927
Elect. cons./GDP (kWh per 2000 USD)	0.0570 e	0.1109	0.1947	0.2696	0.3921	0.4549	0.4625	0.4666
Elect. cons./population (kWh per capita)	92 e	243	490	910	1627	2400	2296	2489
Industry cons.***/industrial production (2005=100)	..	..	..	94.34	112.68	79.09	95.56	..
Industry oil cons.***/industrial production (2005=100)	..	..	..	139.59	129.53	67.59	94.38	..

\* Electricity consumption equals domestic supply less losses.

\*\* Production divided by TPES.

\*\*\* Includes non-energy use.

Turkey

Figure 1. Energy production

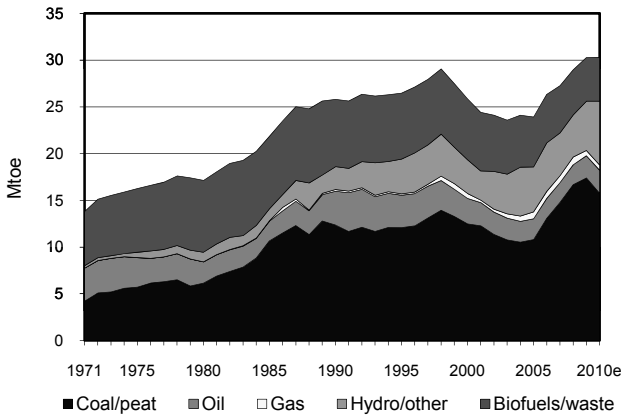


Figure 2. Total primary energy supply\*

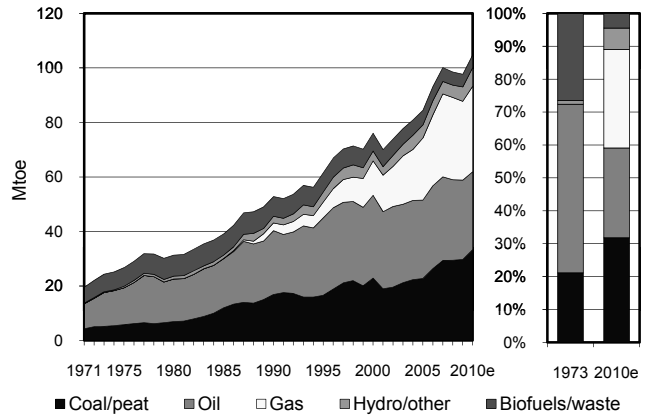


Figure 3. Energy self-sufficiency

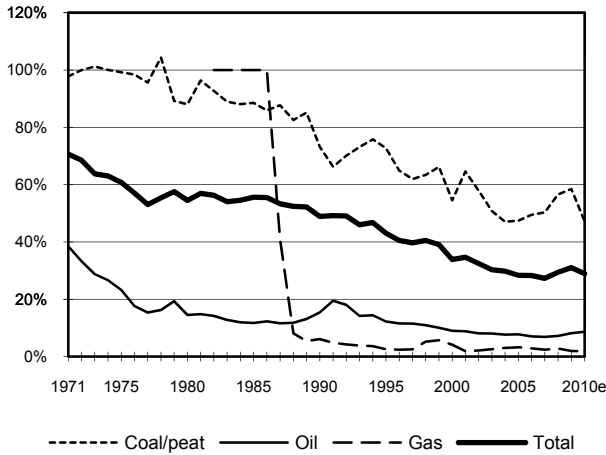


Figure 4. Breakdown of sectorial final consumption by source in 1973 and 2009\*\*

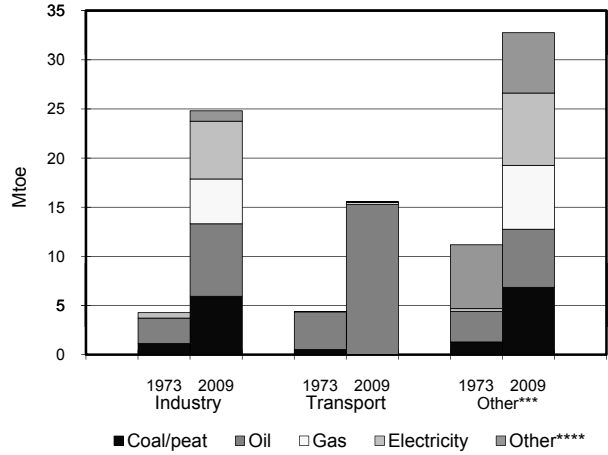


Figure 5. Electricity generation by fuel

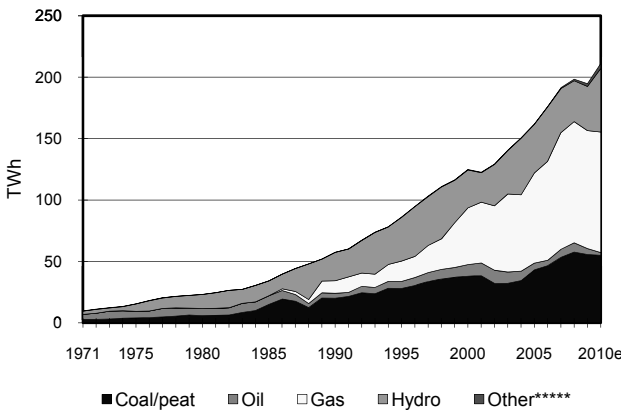
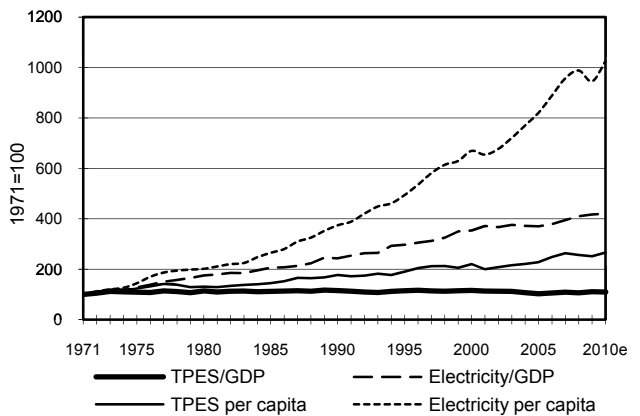


Figure 6. Selected indicators



\* Excluding electricity trade.  
 \*\* Includes non-energy use.  
 \*\*\* Includes residential, commercial and public services, agriculture/forestry, fishing and non-specified.  
 \*\*\*\* Includes biofuels and waste, direct use of geothermal/solar thermal and heat produced in CHP/heat plants.  
 \*\*\*\*\* Includes geothermal, solar, wind, biofuels and waste, etc.

## United Kingdom : 2008

Million tonnes of oil equivalent

<b>SUPPLY AND CONSUMPTION</b>	Coal & peat	Crude oil*	Oil products	Natural gas	Nuclear	Hydro	Geotherm. solar etc.	Biofuels & waste	Electricity	Heat	Total
Production	10.82	74.61	-	62.68	13.68	0.44	0.67	3.91	-	-	166.81
Imports	27.47	62.10	24.27	31.49	-	-	-	0.86	1.06	-	147.25
Exports	-0.58	-50.25	-29.05	-9.49	-	-	-	-	-0.11	-	-89.48
Intl. marine bunkers	-	-	-2.52	-	-	-	-	-	-	-	-2.52
Intl. aviation bunkers	-	-	-11.72	-	-	-	-	-	-	-	-11.72
Stock changes	-1.65	0.09	-0.37	-0.24	-	-	-	-0.03	-	-	-2.19
<b>TPES</b>	<b>36.06</b>	<b>86.56</b>	<b>-19.39</b>	<b>84.44</b>	<b>13.68</b>	<b>0.44</b>	<b>0.67</b>	<b>4.74</b>	<b>0.95</b>	-	<b>208.14</b>
Transfers	-	-3.23	3.50	-	-	-	-	-	-	-	0.27
Statistical differences	0.14	-0.01	0.37	-0.01	-	-	-	0.03	-	0.00	0.52
Electricity plants	-28.99	-	-0.93	-25.58	-13.68	-0.44	-0.61	-2.79	30.82	-	-42.21
CHP plants	-0.23	-	-0.32	-3.57	-	-	-	-0.33	2.25	-	-2.20
Heat plants	-0.35	-	-0.05	-1.96	-	-	-	-	-	1.53	-0.83
Blast furnaces	-1.82 e	-	-0.16	-	-	-	-	-	-	-	-1.98
Gas works	-	-	-	-	-	-	-	-	-	-	-
Coke/pat. fuel/BKB plants	-0.50	-	-	-	-	-	-	-	-	-	-0.50
Oil refineries	-	-83.57	81.89	-	-	-	-	-	-	-	-1.68
Petrochemical plants	-	0.25	-0.28	-	-	-	-	-	-	-	-0.03
Liquefaction plants	-	-	-	-	-	-	-	-	-	-	-
Other transformation	0.01	-	-	-0.01	-	-	-	-	-	-	-0.00
Energy industry own use	-0.81	-	-4.80	-5.59	-	-	-	-	-2.22	-0.07	-13.49
Losses	-0.23	-	-	-1.06	-	-	-	-	-2.40	-	-3.69
<b>TFC</b>	<b>3.29</b>	-	<b>59.83</b>	<b>46.66</b>	-	-	<b>0.06</b>	<b>1.64</b>	<b>29.40</b>	<b>1.46</b>	<b>142.33</b>
<b>INDUSTRY</b>	<b>2.47</b>	-	<b>5.96</b>	<b>10.73</b>	-	-	-	<b>0.34</b>	<b>9.40</b>	<b>1.01</b>	<b>29.91</b>
Iron and steel	1.27 e	-	0.05	0.54	-	-	-	-	0.40	-	2.25
Chemical and petrochem.	0.06	-	0.16	2.41	-	-	-	-	1.63	0.59	4.86
Non-ferrous metals	0.02	-	0.04	0.23	-	-	-	-	0.61	-	0.90
Non-metallic minerals	0.71	-	0.16	1.42	-	-	-	-	0.66	-	2.94
Transport equipment	0.03	-	0.09	0.67	-	-	-	-	0.47	-	1.26
Machinery	0.01	-	0.11	0.90	-	-	-	-	1.30	0.00	2.32
Mining and quarrying	-	-	-	-	-	-	-	-	-	-	-
Food and tobacco	0.02	-	0.26	1.88	-	-	-	-	1.00	0.01	3.18
Paper, pulp and printing	0.09	-	0.06	1.28	-	-	-	-	1.03	0.00	2.47
Wood and wood products	-	-	-	-	-	-	-	-	-	-	-
Construction	-	-	0.15	0.19	-	-	-	-	0.15	-	0.49
Textile and leather	0.05	-	0.10	0.47	-	-	-	-	0.27	-	0.89
Non-specified	0.21	-	4.78	0.74	-	-	-	0.34	1.87	0.41	8.34
<b>TRANSPORT</b>	<b>0.00</b>	-	<b>41.70</b>	-	-	-	-	<b>0.79</b>	<b>0.78</b>	-	<b>43.27</b>
Domestic aviation	-	-	0.78	-	-	-	-	-	-	-	0.78
Road	-	-	38.58	-	-	-	-	0.79	-	-	39.37
Rail	0.00	-	0.70	-	-	-	-	-	0.25	-	0.95
Pipeline transport	-	-	-	-	-	-	-	-	-	-	-
Domestic navigation	-	-	1.64	-	-	-	-	-	-	-	1.64
Non-specified	-	-	-	-	-	-	-	-	0.53	-	0.53
<b>OTHER</b>	<b>0.65</b>	-	<b>4.15</b>	<b>35.22</b>	-	-	<b>0.06</b>	<b>0.52</b>	<b>19.22</b>	<b>0.45</b>	<b>60.26</b>
Residential	0.63	-	2.83	27.82	-	-	-	0.31	10.82	0.05	42.46
Comm. and public services	0.01	-	0.81	5.87	-	-	-	0.09	8.05	0.39	15.24
Agriculture/forestry	0.01	-	0.28	0.17	-	-	-	0.11	0.35	-	0.92
Fishing	-	-	-	-	-	-	-	-	-	-	-
Non-specified	0.00	-	0.23	1.36	-	-	0.06	-	-	-	1.64
<b>NON-ENERGY USE</b>	<b>0.16</b>	-	<b>8.01</b>	<b>0.72</b>	-	-	-	-	-	-	<b>8.89</b>
in industry/transf./energy	0.16	-	7.74	0.72	-	-	-	-	-	-	8.62
of which: feedstocks	-	-	4.82	0.72	-	-	-	-	-	-	5.53
in transport	-	-	0.20	-	-	-	-	-	-	-	0.20
in other	-	-	0.08	-	-	-	-	-	-	-	0.08
<b>Electricity and Heat Output</b>											
<b>Elec. generated - TWh</b>	<b>126.76</b>	-	<b>5.74</b>	<b>176.22</b>	<b>52.49</b>	<b>5.17</b>	<b>7.11</b>	<b>11.09</b>	-	-	<b>384.58</b>
Electricity plants	125.72	-	3.73	154.82	52.49	5.17	7.11	9.34	-	-	358.38
CHP plants	1.04	-	2.01	21.40	-	-	-	1.75	-	-	26.20
<b>Heat generated - PJ</b>	<b>8.87</b>	-	<b>1.52</b>	<b>53.63</b>	-	-	-	-	-	-	<b>64.02</b>
CHP plants	-	-	-	-	-	-	-	-	-	-	-
Heat plants	8.87	-	1.52	53.63	-	-	-	-	-	-	64.02

\* Includes crude oil, NGL, refinery feedstocks, additives and other hydrocarbons.

## United Kingdom : 2009

Million tonnes of oil equivalent											
<b>SUPPLY AND CONSUMPTION</b>	Coal & peat	Crude oil*	Oil products	Natural gas	Nuclear	Hydro	Geotherm. solar etc.	Biofuels & waste	Electricity	Heat	Total
Production	10.70	70.90	-	53.73	18.01	0.45	0.87	4.25	-	-	158.91
Imports	23.55	56.19	22.80	35.26	-	-	-	1.11	0.57	-	139.48
Exports	-0.59	-46.86	-26.01	-10.61	-	-	-	-	-0.32	-	-84.40
Intl. marine bunkers	-	-	-2.42	-	-	-	-	-	-	-	-2.42
Intl. aviation bunkers	-	-	-11.12	-	-	-	-	-	-	-	-11.12
Stock changes	-3.83	0.56	-0.13	-0.29	-	-	-	0.00	-	-	-3.69
<b>TPES</b>	<b>29.84</b>	<b>80.78</b>	<b>-16.88</b>	<b>78.10</b>	<b>18.01</b>	<b>0.45</b>	<b>0.87</b>	<b>5.35</b>	<b>0.25</b>	<b>-</b>	<b>196.76</b>
Transfers	-	-2.83	2.96	-	-	-	-	-	-	-	0.13
Statistical differences	0.03	-0.31	0.53	-0.11	-	-	-	-0.00	-	0.00	0.15
Electricity plants	-24.06	-	-1.24	-24.03	-18.01	-0.45	-0.80	-3.15	29.73	-	-42.00
CHP plants	-0.24	-	-0.35	-3.53	-	-	-	-0.35	2.26	-	-2.21
Heat plants	-0.32	-	-0.05	-1.91	-	-	-	-	-	1.44	-0.85
Blast furnaces	-1.34 e	-	-0.13	-	-	-	-	-	-	-	-1.47
Gas works	-	-	-	-	-	-	-	-	-	-	-
Coke/pat. fuel/BKB plants	-0.38	-	-	-	-	-	-	-	-	-	-0.38
Oil refineries	-	-77.90	76.38	-	-	-	-	-	-	-	-1.52
Petrochemical plants	-	0.25	-0.28	-	-	-	-	-	-	-	-0.03
Liquefaction plants	-	-	-	-	-	-	-	-	-	-	-
Other transformation	0.03	-	-	-0.03	-	-	-	-	-	-	-0.00
Energy industry own use	-0.67	-	-4.51	-5.34	-	-	-	-	-2.21	-0.09	-12.83
Losses	-0.07	-	-	-1.27	-	-	-	-	-2.30	-	-3.63
<b>TFC</b>	<b>2.82</b>	<b>-</b>	<b>56.43</b>	<b>41.88</b>	<b>-</b>	<b>-</b>	<b>0.07</b>	<b>1.85</b>	<b>27.73</b>	<b>1.35</b>	<b>132.13</b>
<b>INDUSTRY</b>	<b>2.02</b>	<b>-</b>	<b>5.22</b>	<b>8.85</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.33</b>	<b>8.43</b>	<b>0.90</b>	<b>25.76</b>
Iron and steel	0.89 e	-	0.08	0.39	-	-	-	-	0.31	-	1.67
Chemical and petrochem.	0.06	-	0.26	1.99	-	-	-	-	1.48	0.48	4.27
Non-ferrous metals	0.02	-	0.04	0.19	-	-	-	-	0.55	-	0.80
Non-metallic minerals	0.67	-	0.17	1.16	-	-	-	-	0.60	-	2.61
Transport equipment	0.03	-	0.08	0.56	-	-	-	-	0.43	-	1.10
Machinery	0.01	-	0.10	0.75	-	-	-	-	1.18	-	2.04
Mining and quarrying	-	-	-	-	-	-	-	-	-	-	-
Food and tobacco	0.03	-	0.24	1.55	-	-	-	-	0.92	0.00	2.74
Paper, pulp and printing	0.08	-	0.06	1.07	-	-	-	-	0.93	-	2.14
Wood and wood products	-	-	-	-	-	-	-	-	-	-	-
Construction	-	-	0.13	0.16	-	-	-	-	0.13	-	0.42
Textile and leather	0.04	-	0.08	0.40	-	-	-	-	0.25	-	0.78
Non-specified	0.19	-	3.97	0.62	-	-	-	0.33	1.66	0.41	7.19
<b>TRANSPORT</b>	<b>0.01</b>	<b>-</b>	<b>39.98</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.97</b>	<b>0.75</b>	<b>-</b>	<b>41.71</b>
Domestic aviation	-	-	0.73	-	-	-	-	-	-	-	0.73
Road	-	-	37.09	-	-	-	-	0.97	-	-	38.06
Rail	0.01	-	0.70	-	-	-	-	-	0.25	-	0.95
Pipeline transport	-	-	-	-	-	-	-	-	-	-	-
Domestic navigation	-	-	1.46	-	-	-	-	-	-	-	1.46
Non-specified	-	-	-	-	-	-	-	-	0.50	-	0.50
<b>OTHER</b>	<b>0.65</b>	<b>-</b>	<b>3.98</b>	<b>32.33</b>	<b>-</b>	<b>-</b>	<b>0.07</b>	<b>0.55</b>	<b>18.54</b>	<b>0.45</b>	<b>56.57</b>
Residential	0.61	-	2.81	25.90	-	-	-	0.33	10.54	0.05	40.23
Comm. and public services	0.04	-	0.68	5.12	-	-	-	0.11	7.68	0.40	14.03
Agriculture/forestry	-	-	0.27	0.14	-	-	-	0.11	0.32	-	0.85
Fishing	-	-	-	-	-	-	-	-	-	-	-
Non-specified	0.00	-	0.21	1.16	-	-	0.07	-	-	-	1.45
<b>NON-ENERGY USE</b>	<b>0.14</b>	<b>-</b>	<b>7.26</b>	<b>0.69</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>8.10</b>
in industry/transf./energy	0.14	-	7.04	0.69	-	-	-	-	-	-	7.87
of which: feedstocks	-	-	4.57	0.69	-	-	-	-	-	-	5.26
in transport	-	-	0.15	-	-	-	-	-	-	-	0.15
in other	-	-	0.08	-	-	-	-	-	-	-	0.08
<b>Electricity and Heat Output</b>											
<b>Elec. generated - TWh</b>	<b>106.02</b>	<b>-</b>	<b>4.37</b>	<b>165.48</b>	<b>69.10</b>	<b>5.26</b>	<b>9.32</b>	<b>12.43</b>	<b>-</b>	<b>-</b>	<b>371.98</b>
Electricity plants	104.89	-	2.39	144.03	69.10	5.26	9.32	10.69	-	-	345.68
CHP plants	1.13	-	1.98	21.46	-	-	-	1.74	-	-	26.30
<b>Heat generated - PJ</b>	<b>8.06</b>	<b>-</b>	<b>1.46</b>	<b>50.76</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>60.28</b>
CHP plants	-	-	-	-	-	-	-	-	-	-	-
Heat plants	8.06	-	1.46	50.76	-	-	-	-	-	-	60.28

\* Includes crude oil, NGL, refinery feedstocks, additives and other hydrocarbons.

## United Kingdom

## Estimated energy supply balance for 2010

Million tonnes of oil equivalent											
SUPPLY	Coal & peat	Crude oil*	Oil products	Natural gas	Nuclear	Hydro	Geotherm. solar etc.	Biofuels & waste	Electricity	Heat	Total
Production	10.89	65.26	-	51.40	16.19	0.31	0.93	4.68	-	-	149.65
Imports	16.60	56.67	25.33	45.61	-	-	-	1.26	0.61	-	146.09
Exports	-0.79	-43.23	-26.51	-13.65	-	-	-	-	-0.39	-	-84.56
Intl. marine bunkers	-	-	-2.04	-	-	-	-	-	-	-	-2.04
Intl. aviation bunkers	-	-	-10.53	-	-	-	-	-	-	-	-10.53
Stock changes	4.00	0.02	0.21	1.38	-	-	-	0.00	-	-	5.61
<b>TPES</b>	<b>30.69</b>	<b>78.73</b>	<b>-13.53</b>	<b>84.73</b>	<b>16.19</b>	<b>0.31</b>	<b>0.93</b>	<b>5.94</b>	<b>0.23</b>	<b>-</b>	<b>204.23</b>
Electricity and Heat Output											
Elec. generated - TWh	109.77	-	3.37	175.55	62.14	3.56	10.04	13.67	-	-	378.10
Heat generated - PJ	8.06	-	1.46	50.76	-	-	-	-	-	-	60.28

\* Includes crude oil, NGL, refinery feedstocks, additives and other hydrocarbons.

## Key indicators

	1960	1971	1980	1990	2000	2008	2009	2010e
Energy production (Mtoe)	114.8	109.8	197.9	208.0	272.5	166.8	158.9	149.7
Net imports (Mtoe)	47.4	112.6	12.3	4.7	-40.4	57.8	55.1	61.5
Total primary energy supply (Mtoe)	158.9	208.7	198.4	205.9	222.9	208.1	196.8	204.2
Net oil imports (Mtoe)	51.2	111.0	1.9	-11.0	-46.7	7.1	6.1	12.3
Oil supply (Mtoe)	43.7	100.8	79.3	76.4	73.2	67.2	63.9	65.2
Electricity consumption (TWh)*	126.4	237.8	263.8	306.7	360.1	371.8	351.8	357.2
GDP (billion 2000 USD)	547.6 e	739.1	876.9	1150.3	1477.5	1763.1	1677.1	1698.1
GDP PPP (billion 2000 USD)	569.0 e	768.0	911.2	1195.2	1535.2	1831.9	1742.6	1764.4
Population (millions)	52.37 e	55.93	56.33	57.24	58.89	61.40	61.79	62.21
Industrial production index (2005=100)	55.40	70.30	76.70	91.50	104.20	97.50	87.60	89.50
Total self-sufficiency**	0.7225	0.5262	0.9971	1.0101	1.2222	0.8014	0.8076	0.7328
Coal and peat self-sufficiency**	0.9951	1.0289	1.0750	0.8496	0.5112	0.3000	0.3588	0.3547
Oil self-sufficiency**	0.0035	0.0024	1.0410	1.2471	1.7982	1.1109	1.1095	1.0009
Natural gas self-sufficiency**	0.9645	0.9541	0.7768	0.8670	1.1162	0.7423	0.6880	0.6066
TPES/GDP (toe per thousand 2000 USD)	0.2902 e	0.2823	0.2263	0.1790	0.1509	0.1181	0.1173	0.1203
TPES/GDP PPP (toe per thousand 2000 USD)	0.2793 e	0.2717	0.2178	0.1723	0.1452	0.1136	0.1129	0.1158
TPES/population (toe per capita)	3.0343 e	3.7312	3.5227	3.5977	3.7859	3.3901	3.1843	3.2831
Net oil imports/GDP (toe per thousand 2000 USD)	0.0936 e	0.1502	0.0022	-0.0096	-0.0316	0.0040	0.0036	0.0072
Oil supply/GDP (toe per thousand 2000 USD)	0.0798 e	0.1363	0.0905	0.0664	0.0496	0.0381	0.0381	0.0384
Oil supply/population (toe per capita)	0.8343 e	1.8018	1.4085	1.3344	1.2435	1.0939	1.0341	1.0481
Elect. cons./GDP (kWh per 2000 USD)	0.2308 e	0.3218	0.3008	0.2666	0.2437	0.2109	0.2098	0.2103
Elect. cons./population (kWh per capita)	2413 e	4252	4683	5358	6115	6055	5693	5742
Industry cons.***/industrial production (2005=100)	180.22	200.70	141.20	108.93	101.43	93.15	90.47	..
Industry oil cons.***/industrial production (2005=100)	121.47	262.32	145.70	98.44	90.29	83.26	82.87	..

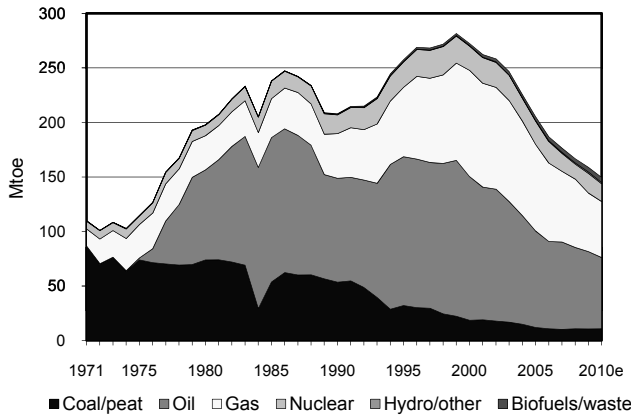
\* Electricity consumption equals domestic supply less losses.

\*\* Production divided by TPES.

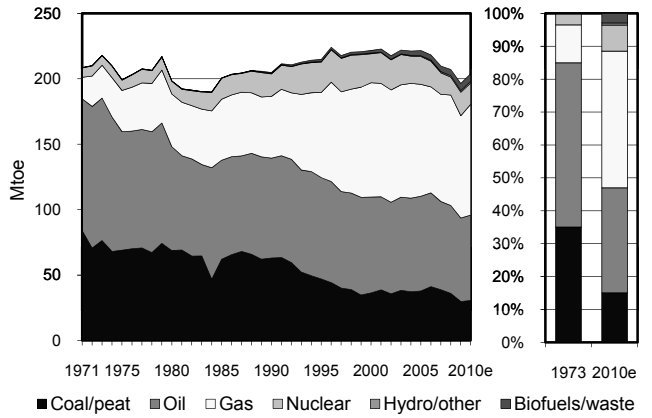
\*\*\* Includes non-energy use.

## United Kingdom

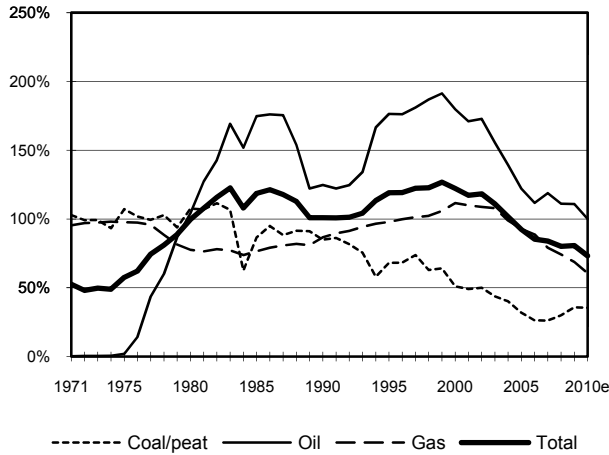
**Figure 1. Energy production**



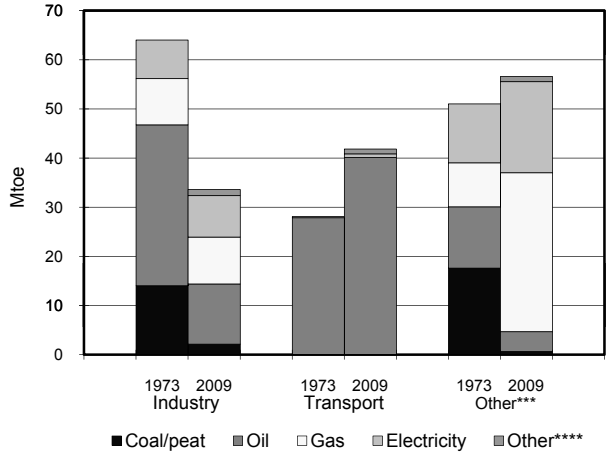
**Figure 2. Total primary energy supply\***



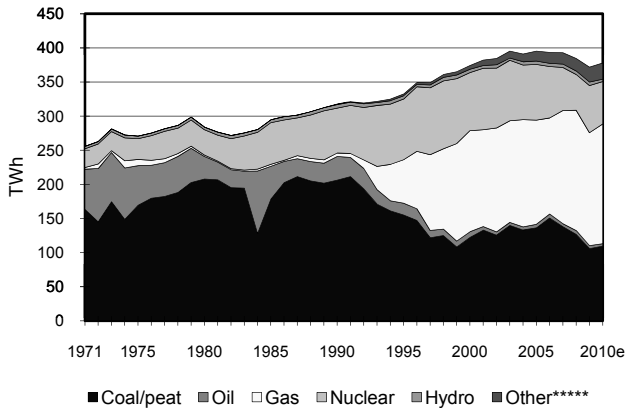
**Figure 3. Energy self-sufficiency**



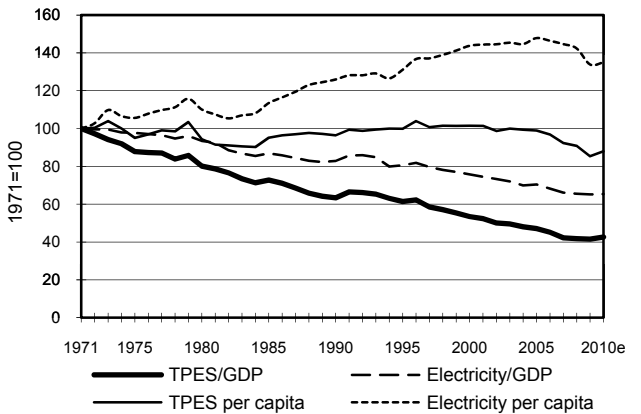
**Figure 4. Breakdown of sectorial final consumption by source in 1973 and 2009\*\***



**Figure 5. Electricity generation by fuel**



**Figure 6. Selected indicators**



\* Excluding electricity trade.

\*\* Includes non-energy use.

\*\*\* Includes residential, commercial and public services, agriculture/forestry, fishing and non-specified.

\*\*\*\* Includes biofuels and waste, direct use of geothermal/solar thermal and heat produced in CHP/heat plants.

\*\*\*\*\* Includes geothermal, solar, wind, biofuels and waste, etc.

## United States : 2008

Million tonnes of oil equivalent

SUPPLY AND CONSUMPTION	Coal & peat	Crude oil*	Oil products	Natural gas	Nuclear	Hydro	Geotherm. solar etc.	Biofuels & waste	Electricity	Heat	Total
Production	579.30	312.91	-	469.66	218.34	22.08	14.56 e	84.95	-	-	1701.80
Imports	21.10	589.01	92.45	92.31	-	-	-	2.04	4.90	-	801.81
Exports	-48.22	-6.50	-85.30	-22.09	-	-	-	-2.21	-2.08	-	-166.39
Intl. marine bunkers	-	-	-25.74	-	-	-	-	-	-	-	-25.74
Intl. aviation bunkers	-	-	-23.81	-	-	-	-	-	-	-	-23.81
Stock changes	-6.41	-4.46	-0.49	1.03	-	-	-	-0.30	-	-	-10.63
<b>TPES</b>	<b>545.76</b>	<b>890.96</b>	<b>-42.89</b>	<b>540.91</b>	<b>218.34</b>	<b>22.08</b>	<b>14.56 e</b>	<b>84.49</b>	<b>2.82</b>	<b>-</b>	<b>2277.03</b>
Transfers	-	-24.48	25.20	-	-	-	-	-	-	-	0.72
Statistical differences	-8.54	-15.26	-2.14	-0.10	-	-	-	0.00	-	-	-26.04
Electricity plants	-480.54	-	-10.30	-129.17	-218.34	-22.08	-12.95 e	-12.18	346.14 e	-	-539.41
CHP plants	-14.57	-	-2.91	-39.07	-	-	-	-7.27	27.35	12.74	-23.72
Heat plants	-	-	-	-	-	-	-	-	-	-	-
Blast furnaces	-5.51 e	-	-	-	-	-	-	-	-	-	-5.51
Gas works	-1.88	-	-	1.12	-	-	-	-	-	-	-0.76
Coke/pat. fuel/BKB plants	-2.62	-	-	-	-	-	-	-	-	-	-2.62
Oil refineries	-	-851.22	859.65	-	-	-	-	-	-	-	8.42
Petrochemical plants	-	-	-	-	-	-	-	-	-	-	-
Liquefaction plants	-	-	-	-	-	-	-	-	-	-	-
Other transformation	-	-	-	-	-	-	-	-	-	-	-
Energy industry own use	-2.03	-	-48.56	-44.95	-	-	-	-	-27.25	-4.25 e	-127.03
Losses	-	-	-	-	-	-	-	-	-21.17	-1.53 e	-22.70
<b>TFC</b>	<b>30.08</b>	<b>-</b>	<b>778.05</b>	<b>328.73</b>	<b>-</b>	<b>-</b>	<b>1.61</b>	<b>65.04</b>	<b>327.90</b>	<b>6.96</b>	<b>1538.38</b>
<b>INDUSTRY</b>	<b>28.35</b>	<b>-</b>	<b>31.69</b>	<b>116.58</b>	<b>-</b>	<b>-</b>	<b>0.12</b>	<b>32.03</b>	<b>78.68</b>	<b>5.50</b>	<b>292.95</b>
Iron and steel	4.82 e	-	1.00	8.12	-	-	-	-	6.85	0.20 e	20.99
Chemical and petrochem.	5.03	-	8.85	35.63	-	-	-	0.23	21.66	3.37 e	74.78
Non-ferrous metals	-	-	0.45	5.70	-	-	-	-	7.00	0.11 e	13.26
Non-metallic minerals	6.91	-	4.43	12.33	-	-	-	0.47	3.62	0.00 e	27.76
Transport equipment	0.12	-	0.65	6.13	-	-	-	0.00	3.98	0.13 e	11.01
Machinery	0.13	-	1.04	10.12	-	-	-	-	9.84	0.10 e	21.23
Mining and quarrying	-	-	-	..	-	-	-	-	2.19	-	2.19
Food and tobacco	3.88	-	3.07	16.67	-	-	-	0.52	7.25	0.61 e	31.99
Paper, pulp and printing	4.69	-	3.79	12.62	-	-	-	23.16	10.48	0.51 e	55.26
Wood and wood products	0.04	-	3.15	2.14	-	-	-	5.15	2.49	0.28 e	13.24
Construction	-	-	1.36	..	-	-	-	-	-	-	1.36
Textile and leather	0.19	-	0.24	2.96	-	-	-	-	2.45	0.16 e	6.00
Non-specified	2.54	-	3.68	4.15	-	-	0.12	2.49	0.87	0.02 e	13.87
<b>TRANSPORT</b>	<b>-</b>	<b>-</b>	<b>565.12</b>	<b>15.69</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>19.58</b>	<b>0.66</b>	<b>-</b>	<b>601.05</b>
Domestic aviation	-	-	52.75	-	-	-	-	-	-	-	52.75
Road	-	-	497.85	0.61	-	-	-	19.58	-	-	518.04
Rail	-	-	10.08	-	-	-	-	-	0.66	-	10.75
Pipeline transport	-	-	-	15.09	-	-	-	-	-	-	15.09
Domestic navigation	-	-	3.55	-	-	-	-	-	-	-	3.55
Non-specified	-	-	0.88	-	-	-	-	-	-	-	0.88
<b>OTHER</b>	<b>1.73</b>	<b>-</b>	<b>51.93</b>	<b>186.56</b>	<b>-</b>	<b>-</b>	<b>1.49</b>	<b>13.43</b>	<b>248.56</b>	<b>1.46</b>	<b>505.17</b>
Residential	-	-	23.08	113.92	-	-	1.40	10.77	118.68	-	267.86
Comm. and public services	1.73	-	13.68	72.63	-	-	0.09	2.30	114.89	1.46 e	206.79
Agriculture/forestry	-	-	15.17	-	-	-	-	0.36	-	-	15.53
Fishing	-	-	-	-	-	-	-	-	-	-	-
Non-specified	-	-	-	-	-	-	-	-	14.99 e	-	14.99
<b>NON-ENERGY USE</b>	<b>-</b>	<b>-</b>	<b>129.31</b>	<b>9.90</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>139.22</b>
in industry/transf./energy	-	-	129.13	9.90	-	-	-	-	-	-	139.04
of which: feedstocks	-	-	76.14	8.75	-	-	-	-	-	-	84.90
in transport	-	-	0.18	-	-	-	-	-	-	-	0.18
in other	-	-	-	-	-	-	-	-	-	-	-
<b>Electricity and Heat Output</b>											
<b>Elec. generated - TWh</b>	<b>2132.60</b>	<b>-</b>	<b>57.78</b>	<b>910.18</b>	<b>837.80</b>	<b>256.71</b>	<b>75.45 e</b>	<b>72.47</b>	<b>-</b>	<b>-</b>	<b>4342.98</b>
Electricity plants	2070.70 e	-	42.52	707.60	837.80	256.71	75.09 e	34.49	-	-	4024.91
CHP plants	61.90 e	-	15.26	202.58	-	-	0.36	37.98	-	-	318.07
<b>Heat generated - PJ</b>	<b>96.44</b>	<b>-</b>	<b>41.14</b>	<b>351.54</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>44.55</b>	<b>-</b>	<b>-</b>	<b>533.67</b>
CHP plants	96.44 e	-	41.14	351.54	-	-	-	44.55	-	-	533.67
Heat plants	-	-	-	-	-	-	-	-	-	-	-

\* Includes crude oil, NGL, refinery feedstocks, additives and other hydrocarbons.

## United States : 2009

Million tonnes of oil equivalent											
SUPPLY AND CONSUMPTION	Coal & peat	Crude oil*	Oil products	Natural gas	Nuclear	Hydro	Geotherm. solar etc.	Biofuels & waste	Electricity	Heat	Total
Production	530.13	337.06	-	478.57	216.36	23.70	16.25 e	84.33	-	-	1686.40
Imports	12.76	535.58	80.67	87.01	-	-	-	0.63	4.49	-	721.13
Exports	-34.87	-8.58	-91.62	-24.63	-	-	-	-0.87	-1.56	-	-162.12
Intl. marine bunkers	-	-	-24.08	-	-	-	-	-	-	-	-24.08
Intl. aviation bunkers	-	-	-21.57	-	-	-	-	-	-	-	-21.57
Stock changes	-23.05	-2.73	-4.04	-6.75	-	-	-	-0.29	-	-	-36.85
<b>TPES</b>	<b>484.98</b>	<b>861.33</b>	<b>-60.64</b>	<b>534.21</b>	<b>216.36</b>	<b>23.70</b>	<b>16.25 e</b>	<b>83.80</b>	<b>2.93</b>	<b>-</b>	<b>2162.92</b>
Transfers	-	-25.52	26.62	-	-	-	-	-	-	-	1.10
Statistical differences	-13.74	-10.67	-0.41	-4.54	-	-	-	0.09	-	-	-29.27
Electricity plants	-427.26	-	-8.36	-134.09	-216.36	-23.70	-14.66 e	-11.80	331.87 e	-	-504.35
CHP plants	-12.47	-	-2.98	-38.55	-	-	-	-7.37	26.36	12.43	-22.58
Heat plants	-	-	-	-	-	-	-	-	-	-	-
Blast furnaces	-3.11 e	-	-	-	-	-	-	-	-	-	-3.11
Gas works	-1.94	-	-	1.18	-	-	-	-	-	-	-0.77
Coke/pat. fuel/BKB plants	-1.75	-	-	-	-	-	-	-	-	-	-1.75
Oil refineries	-	-825.14	832.20	-	-	-	-	-	-	-	7.06
Petrochemical plants	-	-	-	-	-	-	-	-	-	-	-
Liquefaction plants	-	-	-	-	-	-	-	-	-	-	-
Other transformation	-	-	-	-	-	-	-	-	-	-	-
Energy industry own use	-1.17	-	-45.77	-46.22	-	-	-	-	-25.50	-4.15 e	-122.81
Losses	-	-	-	-	-	-	-	-	-22.42	-1.49 e	-23.91
<b>TFC</b>	<b>23.54</b>	<b>-</b>	<b>740.65</b>	<b>311.99</b>	<b>-</b>	<b>-</b>	<b>1.59</b>	<b>64.73</b>	<b>313.23</b>	<b>6.79</b>	<b>1462.52</b>
<b>INDUSTRY</b>	<b>21.95</b>	<b>-</b>	<b>27.42</b>	<b>105.69</b>	<b>-</b>	<b>-</b>	<b>0.11</b>	<b>29.65</b>	<b>68.72</b>	<b>5.37</b>	<b>258.91</b>
Iron and steel	3.14 e	-	0.80	7.36	-	-	-	-	5.99	0.20 e	17.49
Chemical and petrochem.	4.19	-	7.27	32.30	-	-	-	0.17	18.92	3.29 e	66.15
Non-ferrous metals	-	-	0.42	5.17	-	-	-	-	6.12	0.11 e	11.81
Non-metallic minerals	4.72	-	4.07	11.18	-	-	-	0.43	3.16	0.00 e	23.57
Transport equipment	0.08	-	0.56	5.56	-	-	-	0.00	3.47	0.13 e	9.80
Machinery	0.09	-	0.96	9.17	-	-	-	-	8.59	0.10 e	18.91
Mining and quarrying	-	-	-	-	-	-	-	-	1.91	-	1.91
Food and tobacco	3.40	-	2.65	15.11	-	-	-	0.56	6.33	0.59 e	28.65
Paper, pulp and printing	3.89	-	2.93	11.44	-	-	-	20.94	9.15	0.50 e	48.86
Wood and wood products	0.03	-	2.88	1.94	-	-	-	4.80	2.18	0.27 e	12.10
Construction	-	-	1.29	-	-	-	-	-	-	-	1.29
Textile and leather	0.10	-	0.20	2.68	-	-	-	-	2.14	0.16 e	5.28
Non-specified	2.32	-	3.37	3.76	-	-	0.11	2.75	0.76	0.02 e	13.09
<b>TRANSPORT</b>	<b>-</b>	<b>-</b>	<b>540.33</b>	<b>14.58</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>22.17</b>	<b>0.67</b>	<b>-</b>	<b>577.76</b>
Domestic aviation	-	-	47.74	-	-	-	-	-	-	-	47.74
Road	-	-	480.20	0.68	-	-	-	22.17	-	-	503.05
Rail	-	-	8.08	-	-	-	-	-	0.67	-	8.75
Pipeline transport	-	-	-	13.90	-	-	-	-	-	-	13.90
Domestic navigation	-	-	3.53	-	-	-	-	-	-	-	3.53
Non-specified	-	-	0.78	-	-	-	-	-	-	-	0.78
<b>OTHER</b>	<b>1.59</b>	<b>-</b>	<b>51.85</b>	<b>182.74</b>	<b>-</b>	<b>-</b>	<b>1.49</b>	<b>12.90</b>	<b>243.84</b>	<b>1.43</b>	<b>495.83</b>
Residential	-	-	22.16	111.06	-	-	1.41	10.29	117.15	-	262.07
Comm. and public services	1.59	-	15.72	71.69	-	-	0.08	2.26	113.81	1.43 e	206.58
Agriculture/forestry	-	-	13.97	-	-	-	-	0.34	-	-	14.31
Fishing	-	-	-	-	-	-	-	-	-	-	-
Non-specified	-	-	-	-	-	-	-	-	12.87 e	-	12.87
<b>NON-ENERGY USE</b>	<b>-</b>	<b>-</b>	<b>121.05</b>	<b>8.98</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>130.02</b>
in industry/transf./energy	-	-	120.88	8.98	-	-	-	-	-	-	129.86
of which: feedstocks	-	-	77.50	7.94	-	-	-	-	-	-	85.43
in transport	-	-	0.16	-	-	-	-	-	-	-	0.16
in other	-	-	-	-	-	-	-	-	-	-	-
<b>Electricity and Heat Output</b>											
<b>Elec. generated - TWh</b>	<b>1892.66</b>	<b>-</b>	<b>50.45</b>	<b>949.78</b>	<b>830.21</b>	<b>275.59</b>	<b>94.42 e</b>	<b>72.29</b>	<b>-</b>	<b>-</b>	<b>4165.39</b>
Electricity plants	1842.16 e	-	34.85	747.49	830.21	275.59	94.05 e	34.57	-	-	3858.92
CHP plants	50.50 e	-	15.60	202.29	-	-	0.37	37.72	-	-	306.47
<b>Heat generated - PJ</b>	<b>104.04</b>	<b>-</b>	<b>39.33</b>	<b>329.76</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>47.39</b>	<b>-</b>	<b>-</b>	<b>520.52</b>
CHP plants	104.04 e	-	39.33	329.76	-	-	-	47.39	-	-	520.52
Heat plants	-	-	-	-	-	-	-	-	-	-	-

\* Includes crude oil, NGL, refinery feedstocks, additives and other hydrocarbons.



## United States

## Estimated energy supply balance for 2010

Million tonnes of oil equivalent											
SUPPLY	Coal & peat	Crude oil*	Oil products	Natural gas	Nuclear	Hydro	Geotherm. solar etc.	Biofuels & waste	Electricity	Heat	Total
Production	538.39	350.96	-	503.06	218.63	22.29	18.31	89.27	-	-	1740.91
Imports	11.49	536.18	82.91	86.82	-	-	-	0.09	3.57	-	721.06
Exports	-48.22	-8.78	-105.31	-26.13	-	-	-	-0.34	-1.96	-	-190.74
Intl. marine bunkers	-	-	-24.08	-	-	-	-	-	-	-	-24.08
Intl. aviation bunkers	-	-	-21.99	-	-	-	-	-	-	-	-21.99
Stock changes	11.34	-0.72	-1.23	0.55	-	-	-	-0.10	-	-	9.84
<b>TPES</b>	<b>513.00</b>	<b>877.64</b>	<b>-69.70</b>	<b>564.29</b>	<b>218.63</b>	<b>22.29</b>	<b>18.31</b>	<b>88.92</b>	<b>1.61</b>	<b>-</b>	<b>2234.99</b>
Electricity and Heat Output											
Elec. generated - TWh	1994.53	-	48.19	1011.14	838.93	259.18	115.70	69.40	-	-	4337.07
Heat generated - PJ	106.77	-	37.25	346.35	-	-	-	50.55	-	-	540.92

\* Includes crude oil, NGL, refinery feedstocks, additives and other hydrocarbons.

## Key indicators

	1960	1971	1980	1990	2000	2008	2009	2010e
Energy production (Mtoe)	964.9	1436.4	1553.3	1652.5	1667.3	1701.8	1686.4	1740.9
Net imports (Mtoe)	65.8	176.4	307.0	341.9	606.4	635.4	559.0	530.3
Total primary energy supply (Mtoe)	1019.3	1587.5	1804.7	1915.0	2273.3	2277.0	2162.9	2235.0
Net oil imports (Mtoe)	83.3	189.6	340.1	374.4	549.5	589.7	516.1	505.0
Oil supply (Mtoe)	467.1	722.0	796.9	756.8	871.2	848.1	800.7	807.9
Electricity consumption (TWh)*	731.7	1561.1	2241.0	2923.9	3857.5 e	4155.0	3961.6	4119.4
GDP (billion 2000 USD)	2564.7 e	3867.1	5142.1	7064.0	9898.8	11668.5	11357.1	11681.2
GDP PPP (billion 2000 USD)	2564.7 e	3867.1	5142.1	7064.0	9898.8	11668.5	11357.1	11681.2
Population (millions)	180.70 e	207.69	227.73	250.18	282.42	304.83	307.48	310.47
Industrial production index (2005=100)	24.30	39.70	52.50	65.20	96.60	101.00	89.70	94.50
Total self-sufficiency**	0.9466	0.9048	0.8607	0.8629	0.7334	0.7474	0.7797	0.7789
Coal and peat self-sufficiency**	1.0932	1.1219	1.1905	1.1784	1.0061	1.0614	1.0931	1.0495
Oil self-sufficiency**	0.8404	0.7610	0.6253	0.5715	0.4197	0.3690	0.4210	0.4344
Natural gas self-sufficiency**	0.9989	0.9764	0.9534	0.9540	0.8160	0.8683	0.8959	0.8915
TPES/GDP (toe per thousand 2000 USD)	0.3974 e	0.4105	0.3510	0.2711	0.2297	0.1951	0.1904	0.1913
TPES/GDP PPP (toe per thousand 2000 USD)	0.3974 e	0.4105	0.3510	0.2711	0.2297	0.1951	0.1904	0.1913
TPES/population (toe per capita)	5.6407 e	7.6434	7.9248	7.6544	8.0495	7.4698	7.0343	7.1987
Net oil imports/GDP (toe per thousand 2000 USD)	0.0325 e	0.0490	0.0661	0.0530	0.0555	0.0505	0.0454	0.0432
Oil supply/GDP (toe per thousand 2000 USD)	0.1821 e	0.1867	0.1550	0.1071	0.0880	0.0727	0.0705	0.0692
Oil supply/population (toe per capita)	2.5849 e	3.4764	3.4995	3.0252	3.0846	2.7821	2.6040	2.6023
Elect. cons./GDP (kWh per 2000 USD)	0.2853 e	0.4037	0.4358	0.4139	0.3897 e	0.3561	0.3488	0.3527
Elect. cons./population (kWh per capita)	4049 e	7516	9841	11687	13659 e	13630	12884	13268
Industry cons.***/industrial production (2005=100)	292.89	248.77	207.85	137.23	111.84	96.17	97.46	..
Industry oil cons.***/industrial production (2005=100)	255.33	191.53	197.80	122.84	89.74	88.24	91.62	..

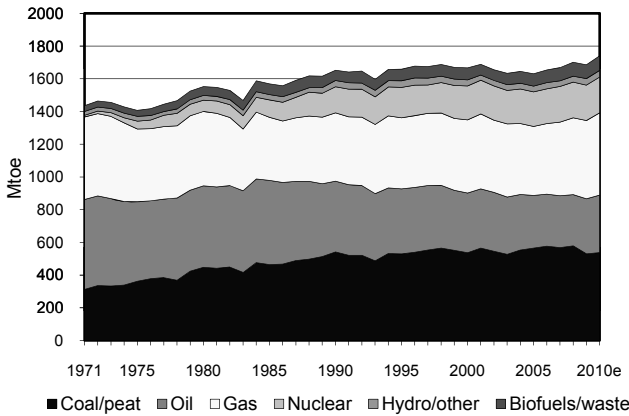
\* Electricity consumption equals domestic supply less losses.

\*\* Production divided by TPES.

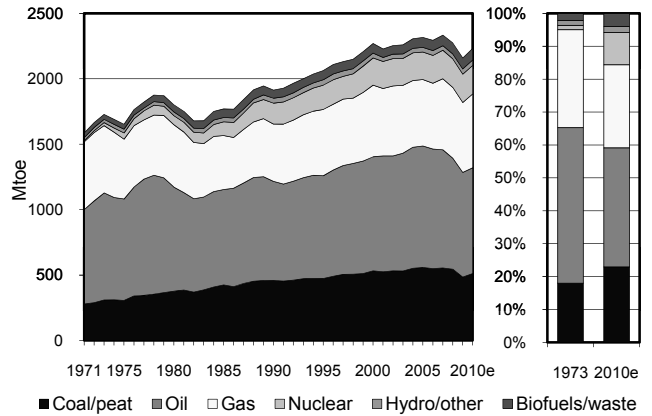
\*\*\* Includes non-energy use.

## United States

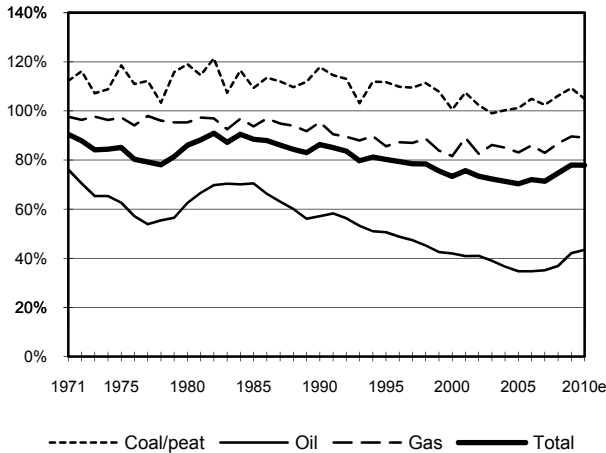
**Figure 1. Energy production**



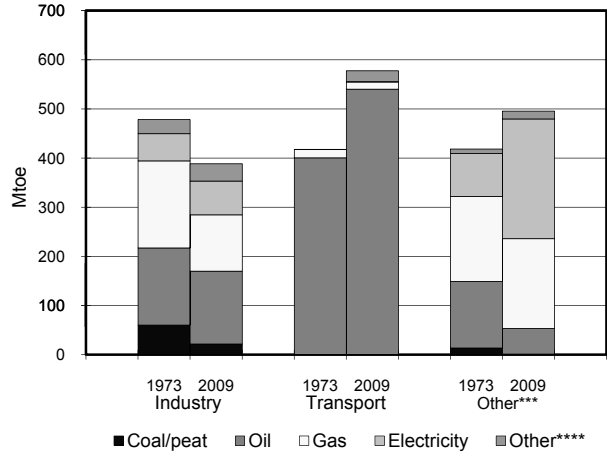
**Figure 2. Total primary energy supply\***



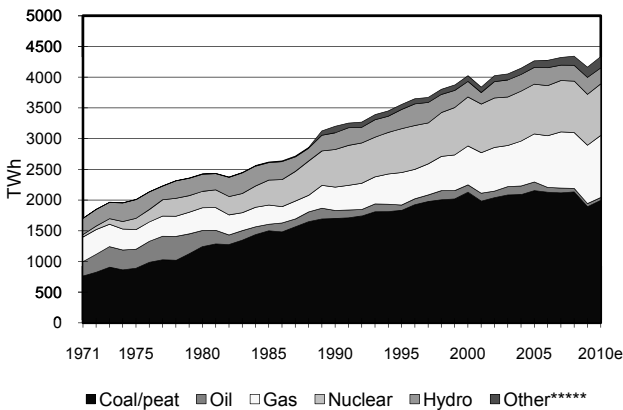
**Figure 3. Energy self-sufficiency**



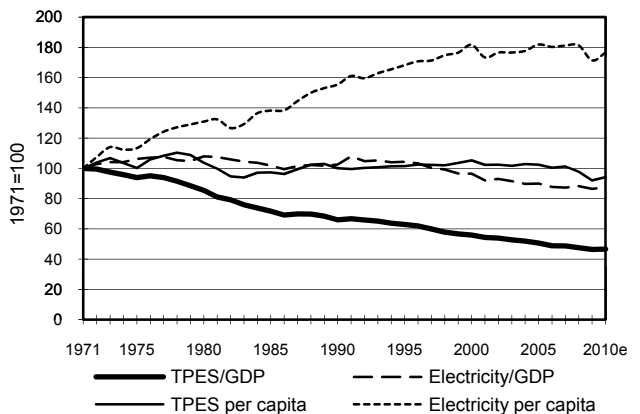
**Figure 4. Breakdown of sectorial final consumption by source in 1973 and 2009\*\***



**Figure 5. Electricity generation by fuel**



**Figure 6. Selected indicators**



\* Excluding electricity trade.

\*\* Includes non-energy use.

\*\*\* Includes residential, commercial and public services, agriculture/forestry, fishing and non-specified.

\*\*\*\* Includes biofuels and waste, direct use of geothermal/solar thermal and heat produced in CHP/heat plants.

\*\*\*\*\* Includes geothermal, solar, wind, biofuels and waste, etc.



# SUMMARY TABLES

**Production of coal and peat (Mtoe)***Production de charbon et de tourbe (Mtep)**Kohle- und Torferzeugung (Mtoe)**Produzione di carbone e torba (Mtep)*

石炭及び泥炭の生産量（石油換算百万トン）

*Producción de carbón y turba (Mtep)**Производство угля и торфа (млн.тон нефтяного эквивалента (Мтнэ))*

	1960	1971	1973	1980	1990	2000	2008	2009	2010e
Australia	16.87	32.68	40.25	51.90	106.10	164.58 e	230.46	236.64	250.35
Austria	1.84	1.04	1.02	0.84	0.64	0.29	0.00	0.00	0.00
Belgium	13.93	6.80	6.42	4.71	1.18	0.21	-	-	-
Canada	5.73	9.46	11.70	20.51	37.93	34.41	34.37	31.46	34.52
Chile	..	1.13	0.96	0.78	1.45	0.24	0.26	0.35	0.34
Czech Republic	..	39.42 e	38.01 e	40.45	36.31	25.05	22.79	20.85	20.65
Denmark	0.99	-	-	-	-	-	-	-	-
Estonia	..	..	..	..	5.23	2.67	3.47	3.29	3.95
Finland	0.03	0.03	0.06	0.73	1.81	1.21	1.05	2.18	1.91
France	37.23	22.96	18.04	13.38	8.24	2.48	0.17	0.09	0.16
Germany	117.85	150.05	141.40	143.14	121.77	60.63	50.05	45.70	44.89
Greece	0.28	1.41	1.69	2.95	7.12	8.22	8.13	8.18	7.12
Hungary	..	6.19	6.05	6.34	4.12	2.89	1.69	1.56	1.57
Iceland	-	-	-	-	-	-	-	-	-
Ireland	1.30	1.38	1.06	1.08	1.43	0.97	0.65	0.58	1.05
Israel	..	-	-	-	0.02	0.03	0.03	0.03	0.03
Italy	0.71	0.51	0.30	0.32	0.28	0.00	0.07	0.05	0.06
Japan	40.80	23.46	17.90	10.90	4.47	1.54	-	-	-
Korea	..	6.26 e	6.65 e	8.20	7.58	3.57	1.28	1.16	0.96
Luxembourg	-	-	-	-	-	-	-	-	-
Mexico	..	1.24	1.52	1.73	3.39	5.41	5.48	5.06	4.77
Netherlands	7.96	2.36	1.14	-	-	-	-	-	-
New Zealand	1.60	1.10	1.29	1.14	1.39	2.10	2.83	2.64	3.11
Norway	0.28	0.30	0.29	0.20	0.20	0.42	2.30	1.77	1.30
Poland	63.22	92.91	100.73	120.35	98.97	71.30	60.91	56.42	56.04
Portugal	0.29	0.15	0.13	0.07	0.12	-	-	-	-
Slovak Republic	..	1.70	1.70	1.70	1.40	1.02	0.62	0.65	0.60
Slovenia	..	..	..	..	1.35	1.06	1.18	1.16	1.16
Spain	8.43	6.92	6.48	9.82	11.75	7.97	4.19	3.63	3.20
Sweden	0.17	-	0.01	0.01	0.17	0.16	0.25	0.21	0.26
Switzerland	-	-	-	-	-	-	-	-	-
Turkey	3.04	4.22	5.21	6.15	12.37	12.49	16.67	17.40	15.75
United Kingdom	113.75	86.46	75.89	73.96	53.61	18.66	10.82	10.70	10.89
United States	243.64	313.42	333.36	447.92	542.32	536.86	579.30	530.13	538.39
<b>OECD TOTAL*</b>	..	<b>813.56</b>	<b>819.25</b>	<b>969.28</b>	<b>1 072.70</b>	<b>966.42</b>	<b>1 039.03</b>	<b>981.91</b>	<b>1 003.03</b>
<b>OECD AMERICAS</b>	..	325.25	347.53	470.94	585.08	576.92	619.41	567.01	578.02
<b>OECD ASIA OCEANIA</b>	..	63.51	66.09	72.14	119.55	171.81	234.60	240.46	254.46
<b>OECD EUROPE*</b>	..	424.79	405.62	426.20	368.06	217.69	185.03	174.43	170.56
<b>IEA</b>	..	811.18	816.78	966.77	1 061.26	957.01	1 028.61	972.01	992.79

\* Excludes Estonia and Slovenia prior to 1990.

**Production of crude oil and NGL (Mtoe)***Production de pétrole brut et LGN (Mtep)**Erzeugung von Rohöl und Kondensaten (Mtoe)**Produzione di petrolio grezzo e LGN (Mtep)**原油及びNGLの生産量(石油換算百万トン)**Producción de petróleo crudo y líquidos de gas natural (Mtep)**Производство сырой нефти и газовых конденсатов (Мтнэ)*

	1960	1971	1973	1980	1990	2000	2008	2009	2010e
Australia	-	14.83	19.85	21.30	29.03	33.91	23.86	25.50	23.99
Austria	2.50	2.63	2.64	1.52	1.21	1.09	0.99	1.06	1.03
Belgium	-	-	-	-	-	-	0.51	0.62	0.35
Canada	26.59	72.41	96.53	83.64	94.15	128.43	157.73	156.30	163.07
Chile	..	1.77	1.79	1.83	1.17	0.43	0.60	0.72	0.61
Czech Republic	..	0.03	0.04	0.24	0.21	0.38	0.31	0.28	0.23
Denmark	-	-	0.07	0.30	6.11	18.26	14.41	13.25	12.48
Estonia	..	..	..	..	-	-	-	-	-
Finland	-	-	-	-	-	0.06	0.08	0.08	0.08
France	2.02	2.50	2.07	2.26	3.47	1.81	1.29	1.11	1.23
Germany	5.64	7.72	6.85	5.66	4.71	3.94	4.24	3.87	3.32
Greece	-	-	-	-	0.84	0.26	0.06	0.07	0.10
Hungary	..	1.99	2.02	2.52	2.27	1.68	1.25	1.21	1.06
Iceland	-	-	-	-	-	-	-	-	-
Ireland	-	-	-	-	-	-	-	-	-
Israel	..	5.83	6.10	0.02	0.01	0.00	-	-	-
Italy	2.10	1.25	1.05	1.73	4.47	4.69	5.68	4.92	5.48
Japan	0.51	0.85	0.81	0.56	0.70	0.78	0.77	0.75	0.69
Korea	..	-	-	-	-	0.67	0.54	0.69	0.70
Luxembourg	-	-	-	-	-	-	-	-	-
Mexico	..	25.65	27.49	114.64	152.76	171.12	168.93	157.15	155.46
Netherlands	1.96	1.75	1.59	1.61	4.07	2.42	2.43	2.03	1.69
New Zealand	-	-	0.18	0.37	1.97	1.94	2.93	2.72	2.65
Norway	-	0.29	1.50	24.23	83.26	166.93	116.16	108.91	101.08
Poland	0.19	0.40	0.39	0.34	0.18	0.72	0.79	0.70	0.75
Portugal	-	-	-	-	-	-	-	-	-
Slovak Republic	..	0.16	0.13	0.04	0.08	0.06	0.23	0.20	0.28
Slovenia	..	..	..	..	0.00	0.00	-	-	-
Spain	0.07	0.13	0.67	1.79	1.17	0.23	0.13	0.11	0.13
Sweden	0.10	-	-	0.03	0.00	-	-	-	-
Switzerland	-	-	-	-	-	-	-	-	-
Turkey	0.37	3.53	3.59	2.27	3.61	2.73	2.13	2.37	2.48
United Kingdom	0.15	0.24	0.55	82.59	95.25	131.67	74.61	70.90	65.26
United States	392.57	549.44	534.59	498.35	432.54	365.61	312.91	337.06	350.96
<b>OECD TOTAL*</b>	..	<b>693.39</b>	<b>710.51</b>	<b>847.84</b>	<b>923.21</b>	<b>1 039.82</b>	<b>893.58</b>	<b>892.57</b>	<b>895.15</b>
<b>OECD AMERICAS</b>	..	649.26	660.41	698.45	680.61	665.58	640.18	651.23	670.09
<b>OECD ASIA OCEANIA</b>	..	21.51	26.94	22.25	31.70	37.31	28.10	29.66	28.03
<b>OECD EUROPE*</b>	..	22.62	23.17	127.13	210.90	336.93	225.31	211.68	197.02
<b>IEA</b>	..	660.14	675.13	731.35	769.27	868.27	724.05	734.70	739.08

\* Excludes Estonia and Slovenia prior to 1990.

**Production of oil products (Mtoe)***Production de produits pétroliers (Mtep)**Erzeugung von Ölprodukten (Mtoe)**Produzione di prodotti petroliferi (Mtep)*

石油製品の生産量(石油換算百万トン)

*Producción de productos petrolíferos (Mtep)**Производство нефтепродуктов (Мтнэ)*

	1960	1971	1973	1980	1990	2000	2008	2009	2010e
Australia	12.94	22.63	26.15	30.26	32.06	38.26	32.84	32.76	..
Austria	1.89	7.37	8.80	10.24	9.07	8.92	9.36	8.74	..
Belgium	6.54	28.46	35.46	33.60	29.60	38.24	37.91	33.40	..
Canada	37.95	70.61	84.42	95.39	86.65	96.31	101.89	98.89	..
Chile	..	4.77	4.75	4.99	6.28	9.74	10.33	10.35	..
Czech Republic	..	6.04	7.47	9.60	8.00	6.18	8.72	7.78	..
Denmark	0.14	10.22	9.76	6.67	7.96	8.41	7.49	7.71	..
Estonia	..	..	..	..	-	-	-	-	..
Finland	1.08	8.66	9.11	12.61	10.60	13.24	15.38	15.17	..
France	31.00	106.94	134.20	116.73	79.67	90.19	90.11	79.85	..
Germany	28.86	124.35	140.16	138.14	107.99	118.45	118.37	110.00	..
Greece	1.69	5.31	12.35	14.09	16.56	22.39	22.04	21.48	..
Hungary	..	6.48	7.95	10.28	8.46	7.59	8.51	7.64	..
Iceland	-	-	-	-	-	-	-	-	..
Ireland	1.35	2.80	2.68	2.02	1.74	3.31	3.24	2.76	..
Israel	..	5.21	6.13	6.33	8.18	10.83	13.22	12.43	..
Italy	30.44	118.23	129.92	98.07	91.55	95.86	96.14	87.72	..
Japan	26.38	183.80	228.28	206.63	182.82	213.83	196.02	185.81	..
Korea	..	11.76	15.35	26.22	43.54	125.63	123.62	120.04	..
Luxembourg	-	-	-	-	-	-	-	-	..
Mexico	..	22.47	26.17	51.09	65.21	65.08	68.80	71.42	..
Netherlands	18.45	60.78	73.12	57.92	69.54	82.36	58.88	58.76	..
New Zealand	-	3.02	3.38	3.02	4.97	5.27	5.38	5.25	..
Norway	0.14	5.67	6.11	7.86	13.40	15.61	15.36	15.35	..
Poland	0.86	8.33	10.78	15.45	12.89	18.80	22.25	22.28	..
Portugal	1.20	4.04	4.23	7.57	11.53	12.41	12.55	10.96	..
Slovak Republic	..	5.30	6.00	8.03	7.06	5.97	6.61	6.54	..
Slovenia	..	..	..	..	0.56	0.17	-	-	..
Spain	6.17	34.38	42.23	48.21	53.24	60.31	61.09	57.76	..
Sweden	2.71	11.37	10.44	17.50	18.10	22.78	21.09	20.46	..
Switzerland	-	5.30	6.16	4.64	3.11	4.75	5.23	4.96	..
Turkey	0.28	8.57	12.52	12.68	22.96	23.82	24.60	19.00	..
United Kingdom	44.11	104.31	113.23	86.10	89.68	88.07	81.89	76.38	..
United States	439.72	622.64	691.12	744.65	753.82	843.82	859.65	832.20	..
<b>OECD TOTAL*</b>	..	<b>1 619.81</b>	<b>1 868.42</b>	<b>1 886.61</b>	<b>1 856.82</b>	<b>2 156.61</b>	<b>2 138.56</b>	<b>2 043.84</b>	..
<b>OECD AMERICAS</b>	..	720.50	806.47	896.12	911.96	1 014.96	1 040.66	1 012.85	..
<b>OECD ASIA OCEANIA</b>	..	226.42	279.28	272.46	271.58	393.81	371.07	356.30	..
<b>OECD EUROPE*</b>	..	672.90	782.67	718.03	673.28	747.84	726.83	674.69	..
<b>IEA</b>	..	1 587.36	1 831.37	1 824.20	1 776.59	2 070.79	2 046.21	1 949.65	..

\* Excludes Estonia and Slovenia prior to 1990.

2010 data for the production of oil products will be released in the 2012 edition.

**Production of natural gas (Mtoe)***Production de gaz naturel (Mtep)**Erzeugung von Erdgas (Mtoe)**Produzione di gas naturale (Mtep)*

天然ガスの生産量(石油換算百万トン)

*Producción de gas natural (Mtep)**Производство природного газа (Мтнз)*

	1960	1971	1973	1980	1990	2000	2008	2009	2010e
Australia	-	1.79	3.38	7.46	17.13	28.53	39.38	41.17	43.08
Austria	1.27	1.64	1.96	1.67	1.10	1.53	1.32	1.43	1.49
Belgium	0.05	0.04	0.04	0.03	0.01	0.00	-	-	-
Canada	11.53	51.27	61.36	63.62	88.55	148.32	144.98	135.25	132.16
Chile	..	0.64	0.53	0.72	1.41	1.60	1.25	0.99	1.51
Czech Republic	..	0.39	0.36	0.32	0.20	0.17	0.16	0.15	0.17
Denmark	-	-	0.00	0.00	2.77	7.41	9.02	7.53	7.30
Estonia	..	..	..	..	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-
France	2.50	6.05	6.29	6.33	2.52	1.50	0.81	0.76	0.62
Germany	0.74	12.12	16.44	16.26	13.53	15.80	11.31	11.11	9.73
Greece	-	-	-	-	0.14	0.04	0.01	0.01	0.00
Hungary	..	3.09	4.03	5.09	3.81	2.47	2.01	2.29	2.23
Iceland	-	-	-	-	-	-	-	-	-
Ireland	-	-	-	0.74	1.87	0.96	0.35	0.32	0.32
Israel	..	0.10	0.05	0.13	0.03	0.01	2.80	2.17	2.63
Italy	5.28	11.02	12.61	10.26	14.03	13.62	7.58	6.56	6.80
Japan	0.64	2.15	2.29	1.94	1.92	2.29	3.56	3.43	3.21
Korea	..	-	-	-	-	-	0.19	0.45	0.41
Luxembourg	-	-	-	-	-	-	-	-	-
Mexico	..	9.26	10.54	21.55	22.75	26.72	38.14	38.40	38.44
Netherlands	0.28	33.13	53.75	68.89	54.60	52.17	59.88	56.39	63.42
New Zealand	0.06	0.11	0.28	0.79	3.87	5.05	3.44	3.55	3.70
Norway	-	-	-	22.77	24.14	46.27	87.10	90.66	91.14
Poland	0.47	4.54	4.87	4.54	2.38	3.31	3.69	3.68	3.69
Portugal	-	-	-	-	-	-	-	-	-
Slovak Republic	..	0.50	0.39	0.17	0.34	0.13	0.09	0.09	0.09
Slovenia	..	..	..	..	0.02	0.01	0.00	0.00	0.01
Spain	-	0.00	0.00	-	1.27	0.15	0.01	0.01	0.04
Sweden	-	-	-	-	-	-	-	-	-
Switzerland	-	-	-	-	0.00	-	-	-	-
Turkey	-	-	-	-	0.17	0.53	0.84	0.56	0.56
United Kingdom	0.06	15.65	24.44	31.31	40.91	97.53	62.68	53.73	51.40
United States	283.43	504.71	502.61	454.56	418.09	446.82	469.66	478.57	503.06
<b>OECD TOTAL*</b>	..	<b>658.18</b>	<b>706.22</b>	<b>719.16</b>	<b>717.56</b>	<b>902.94</b>	<b>950.25</b>	<b>939.26</b>	<b>967.18</b>
<b>OECD AMERICAS</b>	..	565.87	575.05	540.46	530.80	623.46	654.02	653.21	675.17
<b>OECD ASIA OCEANIA</b>	..	4.15	6.00	10.33	22.95	35.88	49.37	50.76	53.03
<b>OECD EUROPE*</b>	..	88.16	125.17	168.38	163.80	243.60	246.85	235.29	238.98
<b>IEA</b>	..	648.18	695.10	696.76	693.35	874.61	908.06	897.70	924.59

\* Excludes Estonia and Slovenia prior to 1990.



**Production of nuclear energy (Mtoe)***Production d'énergie nucléaire (Mtep)**Erzeugung von Kernenergie (Mtoe)**Produzione di energia nucleare (Mtep)**原子力の生産量（石油換算百万トン）**Producción de energía nuclear (Mtep)**Производство атомной энергии (Мтнэ)*

	1960	1971	1973	1980	1990	2000	2008	2009	2010e
Australia	-	-	-	-	-	-	-	-	-
Austria	-	-	-	-	-	-	-	-	-
Belgium	-	-	0.02	3.27	11.13	12.55	11.88	12.31	12.49
Canada	-	1.11	4.07	10.40	19.40	18.97	24.48	23.56	23.54
Chile	..	-	-	-	-	-	-	-	-
Czech Republic	..	-	-	-	3.28	3.54	6.94	7.11	7.32
Denmark	-	-	-	-	-	-	-	-	-
Estonia	..	..	..	..	-	-	-	-	-
Finland	-	-	-	1.83	5.01	5.86	5.98	6.13	5.94
France	0.04	2.43	3.84	15.96	81.85	108.19	114.52	106.78	111.69
Germany	-	1.62	3.15	14.50	39.84	44.20	38.70	35.16	36.63
Greece	-	-	-	-	-	-	-	-	-
Hungary	..	-	-	-	3.58	3.71	3.87	4.03	4.12
Iceland	-	-	-	-	-	-	-	-	-
Ireland	-	-	-	-	-	-	-	-	-
Israel	..	-	-	-	-	-	-	-	-
Italy	-	0.88	0.82	0.58	-	-	-	-	-
Japan	-	2.08	2.53	21.52	52.71	83.93	67.27	72.90	75.11
Korea	..	-	-	0.91	13.78	28.40	39.34	38.51	38.73
Luxembourg	-	-	-	-	-	-	-	-	-
Mexico	..	-	-	-	0.77	2.14	2.55	2.74	1.53
Netherlands	-	0.11	0.29	1.09	0.91	1.02	1.09	1.10	1.03
New Zealand	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-
Poland	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-
Slovak Republic	..	-	0.06	1.18	3.14	4.30	4.40	3.72	3.87
Slovenia	..	..	..	..	1.20	1.24	1.63	1.50	1.47
Spain	-	0.66	1.71	1.35	14.14	16.21	15.37	13.75	16.10
Sweden	-	0.02	0.55	6.90	17.77	14.94	16.65	13.60	15.00
Switzerland	-	0.36	1.64	3.74	6.18	6.92	7.25	7.25	6.99
Turkey	-	-	-	-	-	-	-	-	-
United Kingdom	0.58	7.18	7.30	9.65	17.13	22.17	13.68	18.01	16.19
United States	0.14	10.57	23.24	69.37	159.38	207.89	218.34	216.36	218.63
<b>OECD TOTAL*</b>	..	<b>27.02</b>	<b>49.22</b>	<b>162.25</b>	<b>451.21</b>	<b>586.18</b>	<b>593.95</b>	<b>584.52</b>	<b>596.41</b>
<b>OECD AMERICAS</b>	..	11.68	27.31	79.77	179.55	229.00	245.38	242.66	243.70
<b>OECD ASIA OCEANIA</b>	..	2.08	2.53	22.43	66.50	112.32	106.61	111.41	113.84
<b>OECD EUROPE*</b>	..	13.26	19.38	60.05	205.17	244.85	241.97	230.45	238.87
<b>IEA</b>	..	27.02	49.22	162.25	449.24	582.80	589.76	580.29	593.41

\* Excludes Estonia and Slovenia prior to 1990.

**Production of hydro energy (Mtoe)**  
*Production d'énergie hydraulique (Mtep)*  
*Erzeugung von Wasserkraft (Mtoe)*  
*Produzione di energia idroelettrica (Mtep)*  
 水力の生産量(石油換算百万トン)  
*Producción de energía hidráulica (Mtep)*  
*Производство гидроэнергии (Мтнэ)*

	1960	1971	1973	1980	1990	2000	2008	2009	2010e
Australia	0.34	1.00	0.98	1.11	1.22	1.41	1.02	1.05	1.07
Austria	0.98	1.39	1.61	2.47	2.71	3.60	3.26	3.47	2.99
Belgium	0.01	0.01	0.01	0.02	0.02	0.04	0.04	0.03	0.03
Canada	9.18	13.97	16.74	21.60	25.52	30.83	32.19	31.29	30.23
Chile	..	0.41	0.48	0.68	0.77	1.59	2.08	2.18	1.87
Czech Republic	..	0.10	0.09	0.21	0.10	0.15	0.17	0.21	0.24
Denmark	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Estonia	..	..	..	..	-	0.00	0.00	0.00	0.00
Finland	0.45	0.91	0.90	0.88	0.93	1.26	1.47	1.09	1.11
France	3.52	4.20	4.10	5.98	4.63	5.77	5.48	4.91	5.40
Germany	1.03	1.16	1.31	1.64	1.50	1.87	1.80	1.60	1.63
Greece	0.04	0.23	0.19	0.29	0.15	0.32	0.28	0.46	0.57
Hungary	..	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02
Iceland	0.05	0.13	0.19	0.27	0.36	0.55	1.07	1.06	1.08
Ireland	0.08	0.04	0.06	0.07	0.06	0.07	0.08	0.08	0.05
Israel	..	-	-	-	0.00	0.00	0.00	0.00	0.00
Italy	3.94	3.36	3.23	3.89	2.72	3.80	3.58	4.23	4.35
Japan	5.03	7.24	5.74	7.59	7.68	7.50	6.57	6.47	6.38
Korea	..	0.11	0.11	0.17	0.55	0.34	0.26	0.24	0.32
Luxembourg	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01
Mexico	..	1.24	1.39	1.45	2.02	2.85	3.37	2.30	3.19
Netherlands	-	-	-	-	0.01	0.01	0.01	0.01	0.01
New Zealand	0.48	1.13	1.23	1.63	1.99	2.10	1.92	2.08	2.13
Norway	2.69	5.44	6.27	7.19	10.42	11.95	11.96	10.86	10.11
Poland	0.05	0.13	0.13	0.20	0.12	0.18	0.19	0.20	0.25
Portugal	0.27	0.53	0.63	0.69	0.79	0.97	0.58	0.71	1.39
Slovak Republic	..	0.13	0.11	0.19	0.16	0.40	0.35	0.38	0.47
Slovenia	..	..	..	..	0.25	0.33	0.35	0.41	0.39
Spain	1.34	2.74	2.49	2.54	2.19	2.54 e	2.02	2.26	3.63
Sweden	2.67	4.47	5.15	5.06	6.24	6.76	5.94	5.66	6.13
Switzerland	1.76	2.31	2.40	2.82	2.56	3.17	3.10	3.07	3.10
Turkey	0.09	0.22	0.22	0.98	1.99	2.66	2.86	3.09	4.45
United Kingdom	0.27	0.29	0.33	0.33	0.45	0.44	0.44	0.45	0.31
United States	12.68	22.66	22.82	23.98	23.49	21.78	22.08	23.70	22.29
<b>OECD TOTAL*</b>	..	<b>75.59</b>	<b>78.94</b>	<b>93.96</b>	<b>101.62</b>	<b>115.27</b>	<b>114.57</b>	<b>113.58</b>	<b>115.20</b>
<b>OECD AMERICAS</b>	..	38.28	41.44	47.70	51.80	57.05	59.72	59.46	57.58
<b>OECD ASIA OCEANIA</b>	..	9.48	8.07	10.50	11.44	11.36	9.79	9.84	9.89
<b>OECD EUROPE*</b>	..	27.83	29.44	35.75	38.38	46.86	45.07	44.27	47.72
<b>IEA</b>	..	73.80	76.88	91.56	98.21	109.95	107.71	107.65	108.66

\* Excludes Estonia and Slovenia prior to 1990.

Excludes hydro pumped storage.

**Production of geothermal energy (Mtoe)***Production d'énergie géothermique (Mtep)**Erzeugung von geothermischer Energie (Mtoe)**Produzione di energia geotermica (Mtep)**地熱エネルギーの生産量(石油換算百万トン)**Producción de energía geotérmica (Mtep)**Производство геотермальной энергии (Мтнэ)*

	1960	1971	1973	1980	1990	2000	2008	2009	2010e
Australia	-	-	-	-	-	-	-	-	-
Austria	-	-	-	-	0.00	0.02	0.03	0.03	0.04
Belgium	-	-	-	-	0.00	0.00	0.00	0.00	0.00
Canada	-	-	-	-	-	-	-	-	-
Chile	..	-	-	-	-	-	-	-	-
Czech Republic	..	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	0.00 e	0.00 e	0.01	0.01	0.01
Estonia	..	..	..	..	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-
France	-	0.00	0.00	0.01	0.11	0.13	0.12	0.11	0.09
Germany	-	-	-	-	0.01 e	0.12	0.25	0.47	0.53
Greece	-	-	-	-	0.00	0.00	0.02	0.02	0.02
Hungary	..	-	-	-	0.09	0.09	0.10	0.10	0.10
Iceland	0.11	0.29	0.35	0.64	1.04	1.76	3.28 e	3.34	3.48
Ireland	-	-	-	-	-	-	-	-	-
Israel	..	-	-	-	-	-	-	-	-
Italy	1.81	2.29	2.13	2.30	2.97	4.26 e	4.96	4.81	4.82
Japan	-	-	0.23	0.77	1.58	3.10	2.57	2.69	2.47
Korea	..	-	-	-	-	-	0.02	0.02	0.03
Luxembourg	-	-	-	-	-	-	-	-	-
Mexico	..	-	0.14	0.79	4.41	5.07	6.07	5.79	5.69
Netherlands	-	-	-	-	-	-	0.00	0.00	0.01
New Zealand	0.35	1.08	1.07	1.02	1.48	1.83	2.56	2.96	3.61
Norway	-	-	-	-	-	-	-	-	-
Poland	-	-	-	-	-	0.00	0.01	0.01	0.01
Portugal	-	-	-	0.00	0.00	0.07	0.19	0.18	0.18
Slovak Republic	..	-	-	-	-	-	0.01	0.01	0.01
Slovenia	..	..	..	..	-	-	-	-	-
Spain	-	-	-	-	-	0.01	0.01	0.01	0.00
Sweden	-	-	-	-	-	-	-	-	-
Switzerland	-	-	-	-	0.07	0.10	0.19	0.21	0.23
Turkey	-	0.04	0.05	0.06	0.43	0.68	1.15	1.62	1.82
United Kingdom	-	-	-	-	0.00	0.00	0.00	0.00	0.00
United States	0.03	0.50	2.11	4.60	14.10	13.09	8.10	8.17	8.41
<b>OECD TOTAL*</b>	..	<b>4.20</b>	<b>6.08</b>	<b>10.19</b>	<b>26.29</b>	<b>30.34</b>	<b>29.63</b>	<b>30.58</b>	<b>31.57</b>
<b>OECD AMERICAS</b>	..	0.50	2.25	5.39	18.51	18.16	14.17	13.96	14.10
<b>OECD ASIA OCEANIA</b>	..	1.08	1.30	1.79	3.05	4.93	5.14	5.67	6.11
<b>OECD EUROPE*</b>	..	2.62	2.53	3.01	4.73	7.25	10.33	10.95	11.36
<b>IEA</b>	..	3.91	5.59	8.76	20.84	23.51	20.29	21.44	22.40

\* Excludes Estonia and Slovenia prior to 1990.

**Production of energy from solar, wind, tide, etc. (Mtoe)***Production d'énergie d'origine solaire, éolienne, marémotrice, etc. (Mtep)**Erzeugung von Solarenergie, Windenergie, Gezeitenenergie usw. (Mtoe)**Produzione di energia solare, eolica, dalle maree, etc. (Mtep)**太陽光、風力、潮力、その他エネルギーの生産量（石油換算百万トン）**Producción de energía solar, eólica, maremotriz, etc. (Mtep)**Производство солнечной энергии, энергии ветра, приливов, и т.д. (Мтнэ)*

	1960	1971	1973	1980	1990	2000	2008	2009	2010e
Australia	-	-	-	0.02	0.08	0.09	0.44	0.55	0.59
Austria	-	-	-	-	0.01	0.07	0.29	0.30	0.33
Belgium	-	-	-	-	0.00	0.00	0.06	0.11	0.19
Canada	-	-	-	-	0.00	0.03 e	0.32	0.40	0.51
Chile	..	-	-	-	-	-	0.00	0.01	0.03
Czech Republic	..	-	-	-	-	-	0.03	0.04	0.09
Denmark	-	-	-	0.00	0.05	0.37	0.61	0.59	0.69
Estonia	..	..	..	..	-	-	0.01	0.02	0.02
Finland	-	-	-	-	0.00	0.01	0.02	0.03	0.03
France	-	0.04	0.05	0.05	0.07	0.07	0.58	0.79	0.99
Germany	-	-	-	-	0.02	0.92	4.22	4.30	4.62
Greece	-	-	-	-	0.06	0.14	0.37	0.41	0.40
Hungary	..	-	-	-	-	-	0.02	0.03	0.05
Iceland	-	-	-	-	-	-	-	-	-
Ireland	-	-	-	-	0.00	0.02	0.21	0.26	0.25
Israel	..	-	-	-	0.36	0.60	1.06	1.04	1.04
Italy	-	-	-	-	0.01	0.06 e	0.50	0.71	0.97
Japan	-	-	-	-	1.17	0.85 e	0.93 e	0.98 e	0.97
Korea	..	-	-	-	0.01	0.04 e	0.09	0.15	0.20
Luxembourg	-	-	-	-	-	0.00	0.01	0.01	0.01
Mexico	..	-	-	-	0.02	0.05	0.16	0.21	0.23
Netherlands	-	-	-	-	0.01	0.10	0.40	0.43	0.38
New Zealand	-	-	-	-	-	0.01	0.10	0.13	0.15
Norway	-	-	-	-	-	0.00	0.08	0.08	0.08
Poland	-	-	-	-	-	0.00	0.07	0.09	0.14
Portugal	-	-	-	-	0.01	0.03	0.53	0.70	0.85
Slovak Republic	..	-	-	-	-	-	0.00	0.00	0.00
Slovenia	..	..	..	..	-	-	0.00	0.00	0.00
Spain	-	-	-	-	0.00	0.44	3.19	3.93	4.52
Sweden	-	-	-	-	0.00	0.04	0.18	0.22	0.31
Switzerland	-	-	-	-	0.01	0.02	0.03	0.05	0.06
Turkey	-	-	-	-	0.03	0.26	0.49	0.56	0.55
United Kingdom	-	-	-	-	0.01	0.09	0.67	0.87	0.93
United States	-	-	-	-	0.32	2.07 e	6.46 e	8.08 e	9.90
<b>OECD TOTAL*</b>	..	<b>0.04</b>	<b>0.05</b>	<b>0.07</b>	<b>2.25</b>	<b>6.40</b>	<b>22.15</b>	<b>26.07</b>	<b>30.07</b>
<b>OECD AMERICAS</b>	..	-	-	-	0.34	2.15	6.94	8.71	10.67
<b>OECD ASIA OCEANIA</b>	..	-	-	0.02	1.62	1.59	2.62	2.85	2.95
<b>OECD EUROPE*</b>	..	0.04	0.05	0.05	0.29	2.67	12.58	14.51	16.45
<b>IEA</b>	..	0.04	0.05	0.07	1.87	5.76	20.92	24.79	28.75

\* Excludes Estonia and Slovenia prior to 1990.

**Production of biofuels and waste (Mtoe)***Production de biocarburants et de déchets (Mtep)**Erzeugung von Biokraftstoffen und Abfällen (Mtoe)**Produzione di biocarburanti e da rifiuti (Mtep)**可燃性再生可能エネルギー及び廃棄物の生産量 (石油換算百万トン)**Producción de biocombustibles y desechos (Mtep)**Производство биотоплива и отходов (Мтнэ)*

	1960	1971	1973	1980	1990	2000	2008	2009	2010e
Australia	4.09	3.56	3.53	3.61	3.96	5.03 e	5.89	5.78	4.94
Austria	0.77	0.66	0.70	1.13	2.44	3.17	5.33	5.11	5.30
Belgium	-	-	0.01	0.06	0.75	0.93	1.99	2.23	2.23
Canada	4.06	7.62	7.81	7.65 e	8.17 e	11.72 e	11.99 e	11.54 e	11.75
Chile	..	1.40	1.32	1.79	2.68	4.26	4.86	5.05	5.19
Czech Republic	..	-	-	-	0.81	1.36	2.40	2.54	2.71
Denmark	..	0.33 e	0.35	0.64	1.14	1.69	2.57	2.53	2.73
Estonia	..	..	..	..	0.19	0.51	0.74	0.84	0.93
Finland	4.81	4.04	3.92	3.48	4.33	6.68	7.79	6.98	8.03
France	..	9.42	9.79	8.64	10.99	10.84	14.29	14.95	15.61
Germany	..	2.54	2.50	4.42 e	4.80 e	7.86 e	22.96	24.86	27.84
Greece	..	0.45	0.45	0.45	0.89	1.01	0.99 e	0.93 e	0.97
Hungary	..	0.57	0.59	0.53	0.70	0.76	1.54	1.77	1.83
Iceland	-	-	-	-	-	0.00	0.00	0.00	0.00
Ireland	-	-	-	-	0.11	0.14	0.22	0.29	0.28
Israel	..	0.00	0.00	0.00	0.00	0.00	0.01	0.02 e	0.02
Italy	..	0.22 e	0.24 e	0.82 e	0.85 e	1.74 e	4.59	5.75	6.35
Japan	-	-	-	-	4.99	5.85	7.02	6.58	6.22
Korea	..	-	-	-	0.71	1.35	2.97	3.02	3.21
Luxembourg	..	..	..	0.02	0.02	0.04	0.08	0.09	0.09
Mexico	..	5.97	6.21	6.88	8.55	8.94	8.65	8.38	8.38
Netherlands	..	..	..	0.23	0.95	1.83	2.80	3.08	3.20
New Zealand	..	..	..	0.52 e	0.73	1.04	1.17	1.09	1.18
Norway	..	..	..	0.58	1.03	1.36	1.34	1.31	1.35
Poland	0.87	1.27	1.29	1.22	2.23	4.07	5.70	6.42	6.90
Portugal	0.71	0.70	0.64	0.72	2.48	2.77	3.19	3.29	3.54
Slovak Republic	..	0.21	0.18	0.18	0.17	0.42 e	0.72	0.88	0.81
Slovenia	..	..	..	..	0.24	0.46	0.50	0.48	0.52
Spain	-	0.01	0.01	0.27	4.07 e	4.13 e	5.51	6.02	6.28
Sweden	2.55	2.89	3.54	4.13	5.51	8.26	9.93	10.38	10.63
Switzerland	0.35	0.23	0.24	0.47	1.43 e	1.81	2.23	2.19	2.32
Turkey	5.88	5.80	6.45	7.68	7.21	6.51 e	4.83	4.67	4.67
United Kingdom	-	-	-	-	0.63	1.92	3.91	4.25	4.68
United States	32.36	35.12	37.50	54.49	62.26 e	73.17	84.95	84.33	89.27
<b>OECD TOTAL*</b>	..	..	..	<b>110.60</b>	<b>145.98</b>	<b>181.64</b>	<b>233.68</b>	<b>237.66</b>	<b>249.97</b>
<b>OECD AMERICAS</b>	..	..	..	70.81	81.65	98.09	110.46	109.30	114.59
<b>OECD ASIA OCEANIA</b>	..	..	..	4.13	10.39	13.28	17.05	16.51	15.57
<b>OECD EUROPE*</b>	..	..	..	35.66	53.94	70.28	106.17	111.85	119.81
<b>IEA</b>	..	..	..	101.92	134.32	167.47	218.91	222.88	234.93

\* Excludes Estonia and Slovenia prior to 1990.

**Total production of energy (Mtoe)***Production totale d'énergie (Mtep)**Gesamte Energieerzeugung (Mtoe)**Produzione totale di energia (Mtep)*

エネルギー総生産量(石油換算百万トン)

*Producción total de energía (Mtep)**Общее производство топлива и энергии (Мтнэ)*

	1960	1971	1973	1980	1990	2000	2008	2009	2010e
Australia	21.31	53.85	67.99	85.41	157.52	233.55	301.04	310.70	324.02
Austria	7.36	7.37	7.92	7.63	8.11	9.78	11.22	11.40	11.17
Belgium	14.00	6.84	6.51	8.09	13.10	13.73	14.54	15.32	15.35
Canada	57.09	155.84	198.22	207.42	273.72	372.71	406.07	389.81	395.77
Chile	..	5.34	5.08	5.80	7.47	8.12	9.06	9.30	9.56
Czech Republic	..	39.95	38.51	41.21	40.91	30.65	32.82	31.20	31.44
Denmark	1.00	0.33	0.43	0.95	10.08	27.73	26.62	23.91	23.21
Estonia	..	..	..	..	5.41	3.18	4.23	4.16	4.90
Finland	5.29	4.98	4.88	6.91	12.08	15.07	16.51	16.55	17.15
France	45.30	47.61	44.17	52.60	111.87	130.80	137.27	129.50	135.79
Germany	125.26	175.21	171.66	185.62	186.17	135.34	133.53	127.09	129.20
Greece	0.32	2.08	2.33	3.70	9.20	9.99	9.86	10.08	9.19
Hungary	..	11.85	12.70	14.49	14.59	11.62	10.50	11.00	10.98
Iceland	0.15	0.42	0.54	0.90	1.40	2.31	4.36	4.40	4.57
Ireland	1.38	1.42	1.12	1.89	3.47	2.16	1.52	1.53	1.95
Israel	..	5.94	6.15	0.15	0.42	0.64	3.90	3.27	3.73
Italy	13.84	19.53	20.38	19.90	25.31	28.17	26.97	27.01	28.83
Japan	46.98	35.79	29.51	43.29	75.20	105.82	88.69	93.79	95.06
Korea	..	6.38	6.76	9.27	22.62	34.38	44.73	44.31	44.62
Luxembourg	0.00	0.00	0.00	0.03	0.03	0.06	0.10	0.11	0.10
Mexico	..	43.36	47.28	147.03	194.65	222.30	233.35	220.03	217.69
Netherlands	10.20	37.34	56.76	71.82	60.54	57.57	66.61	63.05	69.74
New Zealand	2.49	3.42	4.05	5.47	11.46	14.12	14.99	15.21	16.56
Norway	2.97	6.03	8.06	54.97	119.07	226.96	218.99	213.64	205.09
Poland	64.81	99.25	107.41	126.64	103.87	79.58	71.36	67.52	67.79
Portugal	1.27	1.38	1.40	1.48	3.39	3.85	4.49	4.89	5.96
Slovak Republic	..	2.69	2.57	3.47	5.28	6.33	6.42	5.94	6.14
Slovenia	..	..	..	..	3.07	3.10	3.67	3.54	3.54
Spain	9.84	10.45	11.35	15.77	34.58	31.68	30.44	29.72	33.90
Sweden	5.48	7.39	9.25	16.13	29.68	30.52	33.23	30.35	32.55
Switzerland	2.11	2.90	4.28	7.03	10.25	12.02	12.80	12.77	12.71
Turkey	9.37	13.81	15.52	17.14	25.81	25.86	28.98	30.28	30.29
United Kingdom	114.81	109.81	108.52	197.85	208.00	272.47	166.81	158.91	149.65
United States	964.86	1 436.42	1 456.23	1 553.26	1 652.50	1 667.28	1 701.80	1 686.40	1 740.91
<b>OECD TOTAL*</b>	..	<b>2 354.99</b>	<b>2 457.55</b>	<b>2 913.34</b>	<b>3 440.87</b>	<b>3 829.44</b>	<b>3 877.47</b>	<b>3 806.68</b>	<b>3 889.08</b>
<b>OECD AMERICAS</b>	..	1 640.96	1 706.82	1 913.51	2 128.35	2 270.41	2 350.27	2 305.54	2 363.92
<b>OECD ASIA OCEANIA</b>	..	105.37	114.45	143.60	267.23	388.51	453.35	467.28	483.98
<b>OECD EUROPE*</b>	..	608.65	636.28	856.23	1 045.29	1 170.52	1 073.85	1 033.85	1 041.18
<b>IEA</b>	..	2 299.92	2 398.49	2 759.45	3 228.43	3 589.79	3 618.92	3 561.98	3 645.10

\* Excludes Estonia and Slovenia prior to 1990.

**Net imports of coal and peat (Mtoe)***Importations nettes de charbon et de tourbe (Mtep)**Nettoimport von Kohle und Torf (Mtoe)**Importazioni nette di carbone e torba (Mtep)*

石炭及び泥炭の純輸入量(石油換算百万トン)

*Importaciones netas de carbón y turba (Mtep)**Чистый импорт угля и торфа (Мтнэ)*

	1960	1971	1973	1980	1990	2000	2008	2009	2010e
Australia	- 0.75	- 12.93	- 17.65	- 27.81	- 67.25	- 121.43	- 172.58	- 179.12	- 203.60
Austria	3.37	2.82	3.01	2.80	3.17	3.02	3.90	2.78	3.10
Belgium	0.50	3.48	4.55	7.18	9.61	7.18	4.63	2.44	1.43
Canada	7.15	6.39	2.83	0.34	- 11.90	- 4.22	- 7.00	- 8.74	- 11.54
Chile	..	0.18	0.20	0.63	1.13	2.92	4.15	3.34	3.79
Czech Republic	..	- 2.11 e	- 2.41 e	- 6.78	- 5.69	- 4.74	- 3.10	- 3.49	- 4.15
Denmark	3.43	1.43	1.87	6.05	6.22	3.78	4.35	3.93	2.66
Estonia	..	..	..	..	0.68	0.27	0.02	- 0.01	- 0.02
Finland	2.01	2.34	2.43	3.79	4.39	3.54	3.94	3.79	3.96
France	9.50	10.01	9.49	20.23	13.01	13.00	14.21	10.29	12.15
Germany	- 12.95	- 3.33	- 3.07	- 1.34	3.34	21.66	31.01	25.89	31.43
Greece	0.10	0.26	0.45	0.38	0.92	0.77	0.42	0.17	0.39
Hungary	..	2.01	1.63	2.20	1.63	1.08	1.42	0.95	1.12
Iceland	0.02	0.00	0.00	0.02	0.06	0.10	0.09 e	0.08 e	0.08
Ireland	1.15	0.70	0.50	0.81	2.01	1.70	1.69	1.36	1.04
Israel	..	0.01	0.00	0.00	2.43	6.04	7.66	7.40	7.10
Italy	7.23	8.33	7.73	11.65	13.74	13.14	16.57	12.42	14.26
Japan	6.09	32.02	40.89	47.55	72.07	95.44	114.33	101.02	115.62
Korea	..	- 0.11 e	0.34 e	3.47 e	15.73 e	39.12 e	61.51	62.92	72.91
Luxembourg	3.09	2.51	2.44	1.84	1.13	0.13	0.08	0.08	0.08
Mexico	..	0.24	0.27	0.59	0.23	1.70	2.51	2.96	3.96
Netherlands	1.56	1.26	1.54	3.72	9.46	8.00	8.56	9.30	9.23
New Zealand	- 0.01	- 0.00	- 0.02	- 0.05	- 0.22	- 1.10	- 1.48	- 1.11	- 1.56
Norway	0.54	0.63	0.58	0.79	0.67	0.60	- 1.51	- 1.13	- 0.35
Poland	- 13.02	- 20.67	- 26.17	- 20.56	- 20.12	- 16.31	- 3.58	- 2.64	- 3.05
Portugal	0.24	0.30	0.27	0.35	2.99	3.91	2.30	3.05	1.62
Slovak Republic	..	6.34	6.26	6.28	6.12	3.43	3.44	3.22	2.67
Slovenia	..	..	..	..	0.14	0.25	0.44	0.26	0.28
Spain	0.21	1.73	2.15	4.13	7.08	12.81	11.04	8.97	6.58
Sweden	2.52	1.77	1.68	1.68	2.64	2.41	2.27	1.35	2.55
Switzerland	1.75	0.40	0.22	0.51	0.34	0.19	0.16	0.17	0.13
Turkey	- 0.02	- 0.01	0.01	0.53	4.21	9.31	12.86	13.34	17.60
United Kingdom	- 3.83	0.75	- 0.87	1.40	8.53	14.45	26.89	22.96	15.81
United States	- 21.36	- 33.41	- 30.32	- 57.01	- 65.87	- 28.30	- 27.13	- 22.11	- 36.73
<b>OECD TOTAL*</b>	..	<b>13.35</b>	<b>10.84</b>	<b>15.37</b>	<b>22.63</b>	<b>93.83</b>	<b>124.07</b>	<b>86.08</b>	<b>70.54</b>
<b>OECD AMERICAS</b>	..	- 26.61	- 27.01	- 55.45	- 76.40	- 27.91	- 27.47	- 24.55	- 40.53
<b>OECD ASIA OCEANIA</b>	..	18.99	23.55	23.16	22.76	18.07	9.43	- 8.88	- 9.53
<b>OECD EUROPE*</b>	..	20.97	14.30	47.65	76.28	103.67	142.11	119.51	120.59
<b>IEA</b>	..	12.93	10.37	14.13	17.95	82.56	109.20	72.05	55.35

\* Excludes Estonia and Slovenia prior to 1990.

A negative number shows net exports.

**Net imports of oil (Mtoe)**  
*Importations nettes de pétrole (Mtep)*  
*Netto-Ölimport (Mtoe)*  
*Importazioni nette di petrolio (Mtep)*  
 石油の純輸入量(石油換算百万トン)  
*Importaciones netas de petróleo (Mtep)*  
 Чистый импорт нефти и нефтепродуктов (Мтнэ)

	1960	1971	1973	1980	1990	2000	2008	2009	2010e
Australia	12.73	11.25	9.21	11.25	5.10	3.55	19.22	19.02	20.57
Austria	0.56	7.80	9.67	11.00	9.63	10.98	12.45	11.58	11.67
Belgium	7.74	28.80	31.46	26.41	22.60	30.13	35.57	31.76	29.84
Canada	16.15	1.79	- 14.49	8.44	- 14.86	- 39.04	- 62.67	- 68.08	- 69.86
Chile	..	3.84	3.50	3.40	5.89	11.05	16.97	15.79	15.37
Czech Republic	..	7.35	8.85	10.89	8.58	7.51	9.63	9.20	8.67
Denmark	5.18	18.68	18.57	13.24	2.75	- 8.49	- 4.55	- 4.61	- 3.60
Estonia	..	..	..	..	3.28	0.79	0.89	0.81	0.70
Finland	2.67	11.85	13.61	13.67	10.34	10.39	11.07	10.10	9.28
France	29.01	103.93	128.66	112.32	85.91	89.84	89.93	87.29	83.79
Germany	29.01	141.34	160.84	148.86	122.12	126.89	117.08	110.84	112.38
Greece	2.63	7.44	11.58	13.22	14.34	19.32	20.71	18.62	17.36
Hungary	..	5.12	6.47	8.31	6.43	5.21	5.96	5.61	5.77
Iceland	0.38	0.55	0.69	0.58	0.73	0.94	0.98	0.88	0.86
Ireland	1.43	5.11	5.45	5.83	5.06	8.02	8.50	7.78	7.91
Israel	..	0.40	2.44	8.47	9.01	12.25	11.92	11.11	10.85
Italy	23.76	87.88	98.34	92.76	85.14	87.96	72.02	67.06	66.70
Japan	29.47	219.84	273.08	251.70	263.30	270.04	224.35	205.67	210.85
Korea	..	10.73	13.22	27.28	51.72	109.50	100.24	104.95	107.56
Luxembourg	0.23	1.41	1.65	1.10	1.62	2.34	2.94	2.74	2.88
Mexico	..	0.55	5.72	- 47.58	- 70.35	- 75.58	- 60.16	- 55.42	- 58.81
Netherlands	12.10	36.02	41.73	38.15	31.17	42.31	49.03	46.47	45.25
New Zealand	1.85	4.05	4.56	4.26	2.35	4.46	4.39	4.56	4.49
Norway	3.69	7.46	6.56	- 14.62	- 72.50	- 156.39	- 103.08	- 98.55	- 88.14
Poland	2.00	8.76	11.76	17.74	14.31	19.83	24.69	24.71	25.56
Portugal	1.77	5.40	6.19	9.44	11.92	16.03	14.19	12.92	12.66
Slovak Republic	..	4.19	5.27	7.47	4.50	2.63	3.53	3.12	3.33
Slovenia	..	..	..	..	1.81	2.43	3.11	2.59	2.61
Spain	6.42	33.59	41.01	49.92	49.66	71.50	77.44	71.36	69.45
Sweden	13.45	29.23	28.60	25.91	15.28	15.73	16.75	14.90	15.55
Switzerland	4.18	13.74	15.01	13.40	13.19	12.11	12.56	12.95	11.76
Turkey	1.16	6.12	8.84	13.74	21.24	29.25	29.45	28.04	28.05
United Kingdom	51.23	111.03	115.95	1.93	- 11.00	- 46.72	7.07	6.11	12.28
United States	83.33	189.57	303.36	340.08	374.40	549.54	589.67	516.05	505.01
<b>OECD TOTAL*</b>	..	<b>1 124.84</b>	<b>1 377.38</b>	<b>1 228.59</b>	<b>1 084.69</b>	<b>1 246.30</b>	<b>1 361.87</b>	<b>1 237.91</b>	<b>1 238.59</b>
<b>OECD AMERICAS</b>	..	195.75	298.09	304.33	295.08	445.98	483.81	408.34	391.70
<b>OECD ASIA OCEANIA</b>	..	246.28	302.52	302.97	331.48	399.81	360.12	345.31	354.31
<b>OECD EUROPE*</b>	..	682.80	776.76	621.29	458.12	400.51	517.94	484.26	492.58
<b>IEA</b>	..	1 119.50	1 365.03	1 263.72	1 134.32	1 294.42	1 388.16	1 262.16	1 267.02

\* Excludes Estonia and Slovenia prior to 1990.

A negative number shows net exports.



**Net imports of natural gas (Mtoe)**  
*Importations nettes de gaz naturel (Mtep)*  
*Nettoimport von Erdgas (Mtoe)*  
*Importazioni nette di gas naturale (Mtep)*  
 ガスの純輸入量 (石油換算百万トン)  
*Importaciones netas de gas natural (Mtep)*  
*Чистый импорт природного газа (Мтнэ)*

	1960	1971	1973	1980	1990	2000	2008	2009	2010e
Australia	-	-	-	-	- 2.35	- 9.26	- 11.65	- 12.89	- 17.07
Austria	-	1.23	1.34	2.66	4.44	5.25	6.52	6.10	6.11
Belgium	-	4.71	7.11	8.89	8.21	13.27	14.89	14.96	17.32
Canada	- 2.43	- 20.16	- 22.77	- 18.37	- 32.51	- 81.33	- 71.86	- 61.59	- 59.19
Chile	..	-	-	-	-	3.67	0.66	1.22	2.89
Czech Republic	..	0.50	0.72	2.41	4.78	7.48	7.02	7.02	6.84
Denmark	-	-	-	-	- 0.93	- 2.88	- 4.93	- 3.58	- 3.02
Estonia	..	..	..	..	1.22	0.66	0.77	0.52	0.56
Finland	-	-	-	0.77	2.18	3.42	3.85	3.48	3.83
France	-	3.99	7.56	16.17	24.36	35.77	38.99	38.78	39.79
Germany	-	4.72	12.30	35.31	41.74	56.85	64.67	67.27	67.22
Greece	-	-	-	-	-	1.69	3.51	2.96	3.20
Hungary	..	0.17	0.15	3.19	5.17	7.28	9.30	7.83	7.72
Iceland	-	-	-	-	-	-	-	-	-
Ireland	-	-	-	-	-	2.48	4.13	3.96	4.51
Israel	..	-	-	-	-	-	0.26	1.25	1.74
Italy	-	0.03	1.64	11.76	25.30	46.99	62.76	56.60	61.57
Japan	-	1.17	2.78	19.53	42.33	63.49	79.88	77.76	82.72
Korea	..	-	-	-	2.68	17.07	33.34	30.20	38.14
Luxembourg	-	0.02	0.22	0.42	0.43	0.67	1.09	1.11	1.20
Mexico	..	- 0.48	- 0.05	- 2.42	0.37	2.20	10.66	10.19	11.11
Netherlands	-	- 13.18	- 25.25	- 38.47	- 23.79	- 17.19	- 25.26	- 21.46	- 24.20
New Zealand	-	-	-	-	-	-	-	-	-
Norway	-	-	-	- 21.90	- 22.17	- 42.13	- 82.24	- 85.17	- 85.67
Poland	0.20	1.18	1.39	4.30	6.77	6.61	9.12	8.12	8.87
Portugal	-	-	-	-	-	2.04	4.14	4.27	4.47
Slovak Republic	..	0.81	1.17	2.21	5.35	5.71	4.97	4.80	4.85
Slovenia	..	..	..	..	0.72	0.82	0.88	0.83	0.86
Spain	-	0.37	0.93	1.41	3.69	15.46	35.23	30.87	30.94
Sweden	-	-	-	-	0.58	0.78	0.83	1.10	1.51
Switzerland	-	0.04	0.15	0.87	1.63	2.43	2.81	2.69	3.01
Turkey	-	-	-	-	2.68	12.05	30.24	28.93	30.78
United Kingdom	0.00	0.75	0.67	9.00	6.18	- 9.31	22.00	24.66	31.96
United States	3.39	19.97	22.11	21.68	33.18	82.18	70.22	62.38	60.69
<b>OECD TOTAL*</b>	..	<b>5.83</b>	<b>12.17</b>	<b>59.43</b>	<b>142.27</b>	<b>234.22</b>	<b>326.80</b>	<b>315.19</b>	<b>345.26</b>
<b>OECD AMERICAS</b>	..	- 0.68	- 0.71	0.89	1.04	6.73	9.67	12.20	15.50
<b>OECD ASIA OCEANIA</b>	..	1.17	2.78	19.53	42.67	71.29	101.83	96.32	105.53
<b>OECD EUROPE*</b>	..	5.33	10.10	39.01	98.56	156.20	215.30	206.67	224.23
<b>IEA</b>	..	6.31	12.22	61.85	139.95	226.87	313.57	301.17	328.10

\* Excludes Estonia and Slovenia prior to 1990.

A negative number shows net exports.

**Net imports of electricity (Mtoe)**  
*Importations nettes d'électricité (Mtep)*  
*Nettoimport von Elektrizität (Mtoe)*  
*Importazioni nette di energia elettrica (Mtep)*  
 電力の純輸入量 (石油換算百万トン)  
*Importaciones netas de electricidad (Mtep)*  
*Чистый импорт электроэнергии (Мтнэ)*

	1960	1971	1973	1980	1990	2000	2008	2009	2010e
Australia	-	-	-	-	-	-	-	-	-
Austria	- 0.16	- 0.22	- 0.13	- 0.34	- 0.04	- 0.12	0.42	0.07	0.19
Belgium	0.00	- 0.04	- 0.06	- 0.23	- 0.32	0.37	0.91	- 0.16	0.05
Canada	- 0.44	- 0.31	- 1.21	- 2.34	- 0.03	- 3.07	- 2.71	- 2.89	- 2.25
Chile	..	0.00	0.00	-	-	0.10	0.10	0.12	0.08
Czech Republic	..	- 0.02	- 0.19	- 0.13	- 0.06	- 0.86	- 0.99	- 1.17	- 1.29
Denmark	0.01	- 0.17	- 0.02	- 0.11	0.61	0.06	0.13	0.03	- 0.10
Estonia	..	..	..	..	- 0.60	- 0.08	- 0.08	0.01	- 0.28
Finland	0.04	0.22	0.37	0.10	0.92	1.02	1.10	1.04	0.90
France	- 0.01	- 0.12	- 0.25	0.28	- 3.91	- 5.98	- 4.13	- 2.23	- 2.54
Germany	0.36	0.60	0.99	0.61	0.08	0.26	- 1.73	- 1.06	- 1.29
Greece	0.00	- 0.00	0.00	0.05	0.06	- 0.00	0.48	0.38	0.51
Hungary	..	0.37	0.40	0.64	0.96	0.30	0.34	0.47	0.45
Iceland	-	-	-	-	-	-	-	-	-
Ireland	-	- 0.00	0.00	-	-	0.01	0.04	0.07	0.04
Israel	..	- 0.00	- 0.00	- 0.01	- 0.04	- 0.13	- 0.32	- 0.33	- 0.33
Italy	- 0.01	0.14	0.08	0.52	2.98	3.81	3.44	3.87	3.78
Japan	-	-	-	-	-	-	-	-	-
Korea	..	-	-	-	-	-	-	-	-
Luxembourg	0.00	0.15	0.18	0.24	0.34	0.45	0.37	0.29	0.35
Mexico	..	0.01	0.03	0.05	- 0.12	0.08	- 0.09	- 0.08	- 0.08
Netherlands	0.01	- 0.09	- 0.12	- 0.03	0.79	1.63	1.36	0.42	0.24
New Zealand	-	-	-	-	-	-	-	-	-
Norway	0.01	- 0.25	- 0.45	- 0.04	- 1.37	- 1.64	- 1.19	- 0.77	0.65
Poland	0.03	- 0.01	- 0.15	- 0.02	- 0.09	- 0.55	- 0.06	- 0.19	- 0.12
Portugal	0.00	0.02	- 0.00	0.16	0.00	0.08	0.81	0.41	0.23
Slovak Republic	..	0.20	0.24	0.29	0.45	- 0.23	0.04	0.11	0.09
Slovenia	..	..	..	..	- 0.08	- 0.11	- 0.14	- 0.26	- 0.18
Spain	- 0.01	- 0.21	- 0.17	- 0.12	- 0.04	0.38	- 0.95	- 0.70	- 0.72
Sweden	- 0.07	0.14	0.06	0.05	- 0.15	0.40	- 0.17	0.40	0.18
Switzerland	- 0.22	- 0.09	- 0.30	- 0.70	- 0.18	- 0.61	- 0.10	- 0.19	0.04
Turkey	-	-	-	0.12	- 0.06	0.29	- 0.03	- 0.06	- 0.07
United Kingdom	- 0.00	0.01	0.01	0.00	1.03	1.22	0.95	0.25	0.23
United States	0.39	0.30	1.23	2.30	0.17	2.92	2.82	2.93	1.61
<b>OECD TOTAL*</b>	..	<b>0.64</b>	<b>0.54</b>	<b>1.34</b>	<b>1.29</b>	<b>0.01</b>	<b>0.64</b>	<b>0.78</b>	<b>0.39</b>
<b>OECD AMERICAS</b>	..	0.01	0.05	0.01	0.02	0.03	0.12	0.08	- 0.64
<b>OECD ASIA OCEANIA</b>	..	- 0.00	- 0.00	- 0.01	- 0.04	- 0.13	- 0.32	- 0.33	- 0.33
<b>OECD EUROPE*</b>	..	0.64	0.49	1.35	1.30	0.11	0.84	1.02	1.35
<b>IEA</b>	..	0.63	0.51	1.30	2.13	0.15	1.17	1.32	1.17

\* Excludes Estonia and Slovenia prior to 1990.

A negative number shows net exports.

**Total net imports of energy (Mtoe)**  
*Importations nettes totales d'énergie (Mtep)*  
*Gesamter Nettoimport von Energie (Mtoe)*  
*Importazioni nette totali di energia (Mtep)*  
 エネルギー純輸入量(石油換算百万トン)  
*Importaciones netas totales de energía (Mtep)*  
*Общий чистый импорт топлива и энергии (Мтнэ)*

	1960	1971	1973	1980	1990	2000	2008	2009	2010e
Australia	11.99	- 1.68	- 8.44	- 16.55	- 64.50	- 127.13	- 165.01	- 172.99	- 200.10
Austria	3.76	11.63	13.90	16.12	17.26	19.09	23.51	20.99	21.54
Belgium	8.24	36.96	43.06	42.25	40.11	51.05	56.38	49.59	49.22
Canada	20.43	- 12.29	- 35.64	- 11.94	- 59.31	- 127.69	- 144.22	- 141.46	- 143.02
Chile	..	4.02	3.70	4.03	7.03	17.74	21.87	20.46	22.13
Czech Republic	..	5.72	6.97	6.39	7.62	9.38	12.37	11.38	9.94
Denmark	8.62	19.94	20.42	19.19	8.65	- 7.47	- 4.56	- 3.74	- 3.41
Estonia	..	..	..	..	4.58	1.64	1.50	1.20	0.81
Finland	4.72	14.41	16.42	18.33	17.83	18.37	19.86	18.35	17.82
France	38.50	117.81	145.45	149.00	119.38	132.64	139.34	134.38	133.26
Germany	16.43	143.33	171.06	183.38	167.27	205.66	210.90	202.94	209.75
Greece	2.74	7.69	12.04	13.65	15.32	21.78	25.17	22.18	21.52
Hungary	..	7.67	8.65	14.34	14.16	13.87	16.99	14.86	15.07
Iceland	0.40	0.55	0.69	0.60	0.79	1.03	1.07	0.96	0.93
Ireland	2.58	5.81	5.96	6.64	7.07	12.21	14.40	13.20	13.53
Israel	..	0.40	2.44	8.46	11.40	18.17	19.53	19.43	19.36
Italy	30.98	96.38	107.79	116.80	127.26	152.43	155.59	141.21	147.87
Japan	35.56	253.03	316.76	318.78	377.70	428.97	418.56	384.46	409.20
Korea	..	10.63	13.56	30.75	70.15	165.71	195.11	198.10	218.62
Luxembourg	3.32	4.09	4.49	3.62	3.52	3.59	4.53	4.26	4.54
Mexico	..	0.32	5.97	- 49.35	- 69.87	- 71.61	- 47.09	- 42.34	- 43.82
Netherlands	13.67	24.02	17.90	3.37	17.63	34.65	34.14	35.12	30.62
New Zealand	1.84	4.05	4.54	4.22	2.13	3.36	2.91	3.45	2.93
Norway	4.24	7.84	6.70	- 35.76	- 95.36	- 199.55	- 187.91	- 185.51	- 173.36
Poland	- 10.80	- 10.74	- 13.18	1.47	0.87	9.58	30.34	30.23	31.71
Portugal	2.00	5.72	6.46	9.94	14.91	22.06	21.43	20.66	18.79
Slovak Republic	..	11.56	12.96	16.24	16.41	11.53	11.97	11.25	10.85
Slovenia	..	..	..	..	2.62	3.38	4.30	3.43	3.59
Spain	6.62	35.47	43.92	55.35	60.39	100.16	122.99	110.69	106.71
Sweden	15.90	31.13	30.34	27.64	18.34	19.32	19.68	17.76	19.79
Switzerland	5.72	14.09	15.08	14.08	14.98	14.12	15.44	15.64	14.97
Turkey	1.14	6.11	8.85	14.38	28.07	50.90	72.52	70.25	76.36
United Kingdom	47.41	112.55	115.75	12.33	4.73	- 40.36	57.77	55.08	61.53
United States	65.75	176.43	296.38	307.04	341.89	606.35	635.42	559.01	530.32
<b>OECD TOTAL*</b>	..	<b>1 144.67</b>	<b>1 400.95</b>	<b>1 304.77</b>	<b>1 251.04</b>	<b>1 574.92</b>	<b>1 816.82</b>	<b>1 644.45</b>	<b>1 659.56</b>
<b>OECD AMERICAS</b>	..	168.48	270.41	249.78	219.73	424.80	465.99	395.67	365.61
<b>OECD ASIA OCEANIA</b>	..	266.44	328.86	345.65	396.89	489.07	471.10	432.44	450.00
<b>OECD EUROPE*</b>	..	709.76	801.68	709.35	634.42	661.05	879.74	816.33	843.94
<b>IEA</b>	..	1 139.38	1 388.15	1 341.05	1 294.49	1 604.57	1 815.62	1 641.31	1 656.55

\* Excludes Estonia and Slovenia prior to 1990.

A negative number shows net exports.

**Primary supply of coal and peat (Mtoe)***Approvisionnement primaire en charbon et en tourbe (Mtep)**Primärenergieaufkommen von Kohle und Torf (Mtoe)**Disponibilità primaria di carbone e torba (Mtep)*

石炭及び泥炭の一次供給量(石油換算百万トン)

*Suministro primario de carbón y turba (Mtep)**Первичная поставка угля и торфа (Мтнэ)*

	1960	1971	1973	1980	1990	2000	2008	2009	2010e
Australia	15.89	21.12	22.58	27.32	34.98	48.16	54.95	55.05	52.91
Austria	5.06	4.08	3.87	3.65	4.10	3.59	3.77	2.90	3.16
Belgium	15.94	10.15	11.18	11.40	10.57	7.88	4.35	2.98	1.91
Canada	12.56	15.87	15.26	21.22	24.28	31.66	27.80	23.82	22.87
Chile	..	1.32	1.20	1.22	2.50	3.07	4.40	3.64	4.13
Czech Republic	..	37.30	35.58	33.45	31.47	21.58	19.66	17.56	17.12
Denmark	4.11	1.45	1.93	5.88	6.09	3.99	4.01	4.01	3.84
Estonia	..	..	..	..	6.14	2.97	3.45	3.00	3.92
Finland	1.93	2.08	2.55	4.95	5.32	5.09	5.29	5.22	6.73
France	44.72	33.54	29.30	32.89	20.21	15.04	12.93	11.22	12.04
Germany	109.44	141.75	139.40	141.02	128.56	84.83	80.97	71.62	76.42
Greece	0.40	1.62	2.10	3.26	8.07	9.04	8.32	8.43	7.31
Hungary	..	7.85	7.91	8.43	6.10	3.85	3.04	2.56	2.70
Iceland	0.02	0.00	0.00	0.02	0.06	0.10	0.09	0.08	0.08
Ireland	2.46	2.07	1.59	1.91	3.47	2.63	2.41	2.16	2.10
Israel	..	0.01	0.00	0.00	2.29	6.47	7.79	7.43	7.13
Italy	7.96	8.55	8.10	11.68	14.63	12.56	16.28	12.75	13.93
Japan	47.52	56.04	57.86	59.56	76.62	96.86	113.64	101.30	115.62
Korea	..	6.27	8.13	13.49	25.56	41.87	62.77	64.84	72.38
Luxembourg	3.08	2.52	2.44	1.82	1.13	0.13	0.08	0.08	0.08
Mexico	..	1.51	1.84	2.37	3.47	6.85	7.71	7.75	8.58
Netherlands	9.91	3.38	2.87	3.79	8.93	7.85	8.08	7.46	7.93
New Zealand	1.57	1.09	1.26	1.02	1.17	1.06	1.78	1.46	1.57
Norway	0.78	0.94	0.91	1.01	0.86	1.08	0.86	0.56	0.84
Poland	50.48	70.70	74.70	99.80	78.87	56.30	54.74	51.13	56.06
Portugal	0.55	0.58	0.51	0.43	2.76	3.81	2.53	2.86	1.65
Slovak Republic	..	8.04	7.96	8.20	7.83	4.27	4.01	3.87	3.44
Slovenia	..	..	..	..	1.58	1.31	1.54	1.42	1.45
Spain	8.83	8.94	9.03	12.43	19.29	20.92	13.48	9.47	8.06
Sweden	2.83	1.72	1.63	1.70	2.96	2.45	2.43	1.93	2.51
Switzerland	1.75	0.46	0.33	0.33	0.36	0.14	0.16	0.15	0.15
Turkey	3.20	4.31	5.15	6.99	16.91	22.91	29.46	29.76	33.36
United Kingdom	114.31	84.03	76.43	68.80	63.11	36.50	36.06	29.84	30.69
United States	222.86	279.38	311.05	376.23	460.20	533.63	545.76	484.98	513.00
<b>OECD TOTAL*</b>	..	<b>818.67</b>	<b>844.63</b>	<b>966.25</b>	<b>1 080.41</b>	<b>1 100.42</b>	<b>1 144.56</b>	<b>1 033.30</b>	<b>1 095.65</b>
<b>OECD AMERICAS</b>	..	298.08	329.34	401.04	490.44	575.20	585.68	520.19	548.57
<b>OECD ASIA OCEANIA</b>	..	84.53	89.84	101.38	140.61	194.42	240.92	230.09	249.61
<b>OECD EUROPE*</b>	..	436.06	425.44	463.82	449.37	330.79	317.96	283.02	297.47
<b>IEA</b>	..	815.83	841.59	962.64	1 064.39	1 079.65	1 119.59	1 009.98	1 070.36

\* Excludes Estonia and Slovenia prior to 1990.

**Primary supply of oil (Mtoe)***Approvisionnement primaire en pétrole (Mtep)**Primärenergieaufkommen von Öl (Mtoe)**Disponibilità primaria di petrolio (Mtep)*

石油の一次供給量(石油換算百万トン)

*Suministro primario de petróleo (Mtep)**Первичная поставка нефти и нефтепродуктов (Мтнэ)*

	1960	1971	1973	1980	1990	2000	2008	2009	2010e
Australia	11.15	24.15	26.58	30.07	31.20	34.15	39.37	40.36	40.32
Austria	2.99	10.04	12.11	12.08	10.34	11.75	12.72	12.16	12.37
Belgium	7.04	24.82	27.69	23.34	17.96	23.26	24.08	24.01	21.76
Canada	41.98	71.91	79.39	88.52	76.51	87.10	94.18	87.88	91.76
Chile	..	4.94	4.97	5.07	6.47	10.48	15.98	15.56	15.54
Czech Republic	..	7.15	8.66	10.84	8.72	7.71	9.48	9.12	8.63
Denmark	4.68	16.90	16.72	12.72	7.65	8.02	7.37	7.04	7.48
Estonia	..	..	..	..	2.97	0.65	0.66	0.50	0.48
Finland	2.50	10.90	13.26	12.60	9.46	8.91	9.76	9.21	9.14
France	28.55	99.32	119.81	106.32	83.92	82.03	83.20	81.00	78.07
Germany	30.61	140.57	158.70	143.86	121.64	125.40	111.13	105.02	105.43
Greece	1.97	6.39	9.06	10.92	12.07	14.88	16.39	15.79	13.98
Hungary	..	7.00	8.15	10.79	8.35	6.63	6.99	6.73	6.44
Iceland	0.37	0.48	0.58	0.58	0.62	0.70	0.81	0.74	0.71
Ireland	1.19	4.61	5.26	5.52	4.47	7.39	7.41	7.18	7.36
Israel	..	5.63	7.72	7.70	8.84	11.29	10.70	9.95	9.66
Italy	20.92	79.11	90.30	88.23	83.32	86.85	72.46	67.36	66.30
Japan	27.65	198.85	248.93	233.68	250.42	255.21	213.82	200.42	202.17
Korea	..	10.59	13.31	26.65	49.73	99.04	89.62	90.60	94.11
Luxembourg	0.23	1.37	1.60	1.04	1.48	1.97	2.50	2.32	2.44
Mexico	..	25.47	32.47	64.45	80.26	90.23	103.67	99.03	92.76
Netherlands	10.77	27.52	30.46	28.86	23.28	25.89	30.81	30.33	31.16
New Zealand	1.65	3.51	4.17	4.01	3.55	5.68	6.26	6.17	6.08
Norway	3.34	7.17	7.53	8.71	8.06	8.95	11.73	10.56	12.27
Poland	2.08	8.33	10.68	16.65	13.04	19.16	24.54	24.08	25.24
Portugal	1.46	4.45	5.12	8.00	10.70	14.91	12.49	11.73	11.42
Slovak Republic	..	4.37	5.39	7.49	4.49	2.82	3.64	3.33	3.58
Slovenia	..	..	..	..	1.73	2.37	2.96	2.57	2.56
Spain	6.00	30.11	37.60	49.77	45.47	62.10	65.05	60.37	58.68
Sweden	12.22	26.79	27.91	22.64	14.30	13.57	13.53	11.84	14.29
Switzerland	3.80	13.08	14.45	12.51	12.26	11.02	11.09	11.51	10.37
Turkey	1.52	9.17	12.48	15.62	23.40	30.40	29.55	29.12	28.63
United Kingdom	43.69	100.77	108.90	79.34	76.37	73.22	67.16	63.90	65.20
United States	467.10	722.01	817.49	796.93	756.84	871.15	848.07	800.69	807.94
<b>OECD TOTAL*</b>	..	<b>1 707.49</b>	<b>1 967.44</b>	<b>1 945.50</b>	<b>1 869.91</b>	<b>2 114.89</b>	<b>2 059.21</b>	<b>1 958.17</b>	<b>1 964.34</b>
<b>OECD AMERICAS</b>	..	824.33	934.32	954.97	920.09	1 058.95	1 061.91	1 003.17	1 008.00
<b>OECD ASIA OCEANIA</b>	..	242.72	300.71	302.12	343.74	405.37	359.78	347.49	352.35
<b>OECD EUROPE*</b>	..	640.44	732.41	688.42	606.07	650.57	637.52	607.51	603.99
<b>IEA</b>	..	1 670.98	1 921.71	1 867.71	1 769.01	1 999.18	1 924.44	1 829.80	1 842.62

\* Excludes Estonia and Slovenia prior to 1990.

**Primary supply of natural gas (Mtoe)**  
*Approvisionnement primaire en gaz naturel (Mtep)*  
*Primärenergieaufkommen von Erdgas (Mtoe)*  
*Disponibilità primaria di gas naturale (Mtep)*  
*ガスの一次供給量(石油換算百万トン)*  
*Suministro primario de gas natural (Mtep)*  
*Первичная поставка газа (Мтпэ)*

	1960	1971	1973	1980	1990	2000	2008	2009	2010e
Australia	-	1.79	3.38	7.46	14.79	19.27	27.73	28.28	26.01
Austria	1.27	2.84	3.30	4.15	5.18	6.52	7.47	7.16	8.21
Belgium	0.05	4.71	7.14	8.91	8.17	13.36	14.83	15.11	17.49
Canada	8.80	31.17	37.27	45.55	54.73	74.24	78.26	78.66	77.09
Chile	..	0.64	0.53	0.72	1.14	5.21	1.86	2.23	4.40
Czech Republic	..	0.86	1.02	2.59	5.25	7.50	7.12	6.72	7.63
Denmark	-	-	0.00	0.00	1.82	4.45	4.08	3.90	4.38
Estonia	..	..	..	..	1.22	0.66	0.77	0.52	0.56
Finland	-	-	-	0.77	2.18	3.42	3.85	3.48	3.83
France	2.40	9.73	13.50	21.64	26.02	35.76	39.87	38.45	42.82
Germany	0.74	16.80	28.64	51.19	54.96	71.83	76.53	76.56	79.69
Greece	-	-	-	-	0.14	1.70	3.51	2.97	3.19
Hungary	..	3.25	4.17	7.97	8.91	9.65	10.56	9.15	9.74
Iceland	-	-	-	-	-	-	-	-	-
Ireland	-	-	-	0.74	1.87	3.43	4.48	4.28	4.82
Israel	..	0.10	0.05	0.13	0.03	0.01	3.07	3.42	4.37
Italy	5.28	10.85	14.22	22.72	38.99	57.92	69.50	63.88	67.94
Japan	0.64	3.31	5.07	21.40	44.16	65.65	83.71	80.66	85.95
Korea	..	-	-	-	2.72	17.01	31.81	31.70	37.45
Luxembourg	-	0.02	0.22	0.42	0.43	0.67	1.09	1.11	1.20
Mexico	..	8.77	10.49	19.13	23.12	28.92	49.00	48.51	49.56
Netherlands	0.28	19.95	28.50	30.42	30.80	34.98	34.65	34.96	39.20
New Zealand	0.06	0.11	0.28	0.79	3.87	5.06	3.44	3.46	3.57
Norway	-	-	-	0.87	1.98	4.14	4.86	5.49	5.47
Poland	0.66	5.72	6.25	8.77	8.94	9.96	12.54	12.00	12.79
Portugal	-	-	-	-	-	2.03	4.14	4.22	4.45
Slovak Republic	..	1.31	1.56	2.32	5.09	5.77	5.16	4.42	5.10
Slovenia	..	..	..	..	0.76	0.83	0.88	0.83	0.86
Spain	-	0.36	0.94	1.45	4.97	15.21	34.90	31.21	31.13
Sweden	-	-	-	-	0.58	0.78	0.83	1.10	1.51
Switzerland	-	0.04	0.15	0.87	1.63	2.43	2.81	2.69	3.01
Turkey	-	-	-	-	2.85	12.63	30.18	28.91	31.38
United Kingdom	0.06	16.40	25.11	40.31	47.19	87.37	84.44	78.10	84.73
United States	283.73	516.93	514.51	476.78	438.23	547.58	540.91	534.21	564.29
<b>OECD TOTAL*</b>	..	<b>655.67</b>	<b>706.32</b>	<b>778.08</b>	<b>842.72</b>	<b>1 155.97</b>	<b>1 278.84</b>	<b>1 248.38</b>	<b>1 323.83</b>
<b>OECD AMERICAS</b>	..	557.51	562.81	542.19	517.22	655.94	670.03	663.61	695.35
<b>OECD ASIA OCEANIA</b>	..	5.32	8.78	29.78	65.57	106.99	149.76	147.52	157.35
<b>OECD EUROPE*</b>	..	92.84	134.73	206.11	259.93	393.04	459.05	437.25	471.14
<b>IEA</b>	..	646.15	695.26	758.10	816.45	1 120.35	1 223.27	1 192.86	1 264.08

\* Excludes Estonia and Slovenia prior to 1990.

**Total primary energy supply (TPES) (Mtoe)***Approvisionnement totaux en énergie primaire (ATEP) (Mtep)**Gesamtaufkommen von Primärenergie (TPES) (Mtoe)**Disponibilità totale di energia primaria (DTEP) (Mtep)**一次エネルギー総供給量(石油換算百万トン)**Suministro total de energía primaria (TPES) (Mtep)**Общая первичная поставка топлива и энергии (ОППТЭ) (Мтнэ)*

	1960	1971	1973	1980	1990	2000	2008	2009	2010e
Australia	31.48	51.61	57.06	69.60	86.23	108.11	129.40	131.07	125.84
Austria	10.90	18.82	21.48	23.15	24.78	28.57	33.49	31.66	33.07
Belgium	23.06	39.66	45.99	46.77	48.28	58.51	58.58	57.22	56.80
Canada	76.13	141.35	159.34	192.60	208.57	251.45	266.54	254.12	255.32
Chile	..	8.70	8.50	9.48	13.55	24.70	29.29	28.78	31.26
Czech Republic	..	45.38	45.16	46.95	49.56	40.98	44.63	41.99	42.33
Denmark	8.81	18.51	18.99	19.14	17.36	18.63	19.22	18.61	19.68
Estonia	..	..	..	..	9.91	4.71	5.44	4.75	5.47
Finland	9.73	18.17	21.03	24.60	28.38	32.25	35.28	33.17	35.61
France	79.22	158.57	180.14	191.77	223.89	251.87	267.20	256.22	264.23
Germany	142.17	305.05	334.70	357.18	351.40	337.29	334.70	318.53	331.50
Greece	2.41	8.69	11.81	14.98	21.44	27.09	30.42	29.44	27.02
Hungary	..	19.03	21.28	28.35	28.66	25.00	26.46	24.86	25.44
Iceland	0.54	0.90	1.12	1.50	2.09	3.10	5.25	5.22	5.36
Ireland	3.73	6.72	6.91	8.24	9.99	13.70	14.90	14.34	14.94
Israel	..	5.74	7.76	7.82	11.48	18.25	22.31	21.55	21.91
Italy	39.90	105.40	119.12	130.84	146.56	171.52	176.06	164.63	170.17
Japan	80.84	267.53	320.37	344.52	439.32	518.95	495.55	471.99	494.90
Korea	..	16.97	21.54	41.21	93.09	188.08	226.95	229.18	246.52
Luxembourg	3.30	4.06	4.43	3.56	3.41	3.28	4.19	3.95	4.20
Mexico	..	42.98	52.57	95.12	122.49	145.12	181.09	174.64	169.83
Netherlands	20.97	50.87	62.00	64.36	65.69	73.22	79.55	78.17	83.33
New Zealand	4.11	6.91	8.02	8.98	12.83	16.82	17.26	17.40	18.31
Norway	6.83	13.30	14.26	18.32	21.00	25.87	29.80	28.24	30.94
Poland	54.18	86.12	92.88	126.62	103.10	89.12	97.88	93.99	101.71
Portugal	2.98	6.28	6.90	9.99	16.74	24.67	24.43	24.10	23.52
Slovak Republic	..	14.26	15.52	19.85	21.33	17.74	18.30	16.72	17.27
Slovenia	..	..	..	..	5.71	6.41	7.74	6.97	7.09
Spain	16.17	42.60	51.61	67.69	90.09	121.95	138.81	126.52	128.14
Sweden	20.20	36.04	38.84	40.49	47.20	47.56	49.60	45.41	50.78
Switzerland	7.45	16.39	18.91	20.04	24.32	25.01	26.78	26.95	26.31
Turkey	10.69	19.54	24.35	31.44	52.76	76.35	98.50	97.66	104.80
United Kingdom	158.92	208.68	218.07	198.43	205.92	222.94	208.14	196.76	204.23
United States	1 019.30	1 587.47	1 729.94	1 804.68	1 915.00	2 273.33	2 277.03	2 162.92	2 234.99
<b>OECD TOTAL*</b>	..	<b>3 372.30</b>	<b>3 740.58</b>	<b>4 068.26</b>	<b>4 522.10</b>	<b>5 292.15</b>	<b>5 480.77</b>	<b>5 237.72</b>	<b>5 412.81</b>
<b>OECD AMERICAS</b>	..	1 780.50	1 950.35	2 101.87	2 259.61	2 694.61	2 753.95	2 620.46	2 691.41
<b>OECD ASIA OCEANIA</b>	..	348.76	414.75	472.14	642.93	850.20	891.47	871.19	907.47
<b>OECD EUROPE*</b>	..	1 243.04	1 375.48	1 494.24	1 619.57	1 747.34	1 835.35	1 746.08	1 813.93
<b>IEA</b>	..	3 313.98	3 670.63	3 954.34	4 356.87	5 089.84	5 229.66	4 995.81	5 171.89

\* Excludes Estonia and Slovenia prior to 1990.

**Electricity generation from coal and peat (% of total)***Production d'électricité à partir du charbon et de tourbe (% du total)**Stromerzeugung auf Kohle- und Torfbasis (in %)**Produzione di energia termoelettrica da carbone e torba (% del totale)**石炭及び泥炭からの発電量 (%)**Generación de electricidad a partir del carbón y turba (% del total)**Производство электроэнергии за счет потребления угля и торфа (в % к общему производству)*

	1960	1971	1973	1980	1990	2000	2008	2009	2010e
Australia	74.42	71.03	74.88	73.25	78.74	83.03	78.12	77.94	75.81
Austria	13.86	13.12	10.32	7.02	14.21	11.25	10.84	7.67	9.36
Belgium	85.36	26.89	21.68	29.36	28.25	19.37	8.66	6.85	8.15
Canada	3.38	18.80	12.92	16.02	17.06	19.42	17.48	15.19	15.82
Chile	..	16.14	14.00	16.08	35.52	21.13	23.64	24.53	26.83
Czech Republic	..	84.84	85.14	84.75	76.44	75.13	62.19	59.60	58.80
Denmark	71.62	18.59	35.80	81.84	90.67	46.25	47.64	48.64	43.93
Estonia	..	..	..	..	86.22	92.13	93.79	92.09	89.26
Finland	29.68	27.95	28.07	42.63	23.56	18.86	18.48	22.08	26.48
France	36.47	29.37	19.66	27.35	8.49	5.76	4.64	5.34	4.67
Germany	87.03	74.99	69.00	62.94	58.73	53.15	46.05	43.85	44.06
Greece	53.36	43.18	35.45	44.85	72.37	64.23	53.02	55.96	45.12
Hungary	..	65.35	66.01	50.44	30.49	27.58	18.00	17.87	16.86
Iceland	-	-	-	-	-	-	-	-	-
Ireland	53.32	29.74	24.92	16.40	57.37	36.27	26.43	23.79	23.95
Israel	..	-	-	-	50.09	68.80	62.07	62.53	57.70
Italy	3.82	4.74	3.60	9.95	16.78	11.31	15.50	15.06	14.10
Japan	32.21	11.86	8.01	9.60	13.97	22.14	26.84	26.84	26.94
Korea	..	6.87	9.05	6.66	16.76	38.61	43.20	46.24	44.10
Luxembourg	97.81	63.17	58.82	51.63	76.44	-	-	-	-
Mexico	..	0.52	0.56	-	6.71	9.52	8.17	11.31	12.07
Netherlands	79.69	12.44	6.04	13.69	38.26	30.25	24.89	23.44	21.95
New Zealand	14.42	4.81	8.52	1.89	2.06	3.94	11.02	7.58	4.61
Norway	-	0.03	0.03	0.02	0.07	0.05	0.09	0.07	0.10
Poland	97.46	91.91	93.90	94.71	97.49	96.15	90.81	89.13	88.08
Portugal	1.10	3.56	3.94	2.30	32.11	33.87	24.62	26.06	13.64
Slovak Republic	..	66.34	64.40	37.86	31.86	19.84	17.90	16.50	15.22
Slovenia	..	..	..	..	31.26	33.84	32.46	31.29	32.55
Spain	12.90	21.74	18.87	30.01	40.13	36.38	16.06	12.77	8.85
Sweden	1.08	0.31	0.64	0.19	1.09	1.75	1.49	1.17	2.29
Switzerland	-	-	-	0.13	0.07	-	-	-	-
Turkey	54.67	30.48	26.11	25.61	35.07	30.57	29.09	28.58	26.06
United Kingdom	81.09	63.94	62.06	73.18	64.97	32.67	32.96	28.50	29.03
United States	53.91	44.79	46.16	51.20	53.07	52.90	49.10	45.44	45.99
<b>OECD TOTAL*</b>	..	<b>39.49</b>	<b>37.91</b>	<b>40.92</b>	<b>40.54</b>	<b>38.98</b>	<b>36.53</b>	<b>34.80</b>	<b>34.67</b>
<b>OECD AMERICAS</b>	..	41.03	41.36	45.31	47.03	46.66	42.98	39.86	40.61
<b>OECD ASIA OCEANIA</b>	..	18.00	15.47	17.24	23.25	33.68	38.43	39.38	38.20
<b>OECD EUROPE*</b>	..	44.54	40.98	43.30	38.69	30.03	26.12	24.91	24.11
<b>IEA</b>	..	39.96	38.37	41.58	40.99	39.55	37.19	35.34	35.17

\* Excludes Estonia and Slovenia prior to 1990.



**Electricity generation from oil (% of total)***Production d'électricité à partir du pétrole (% du total)**Stromerzeugung auf Ölbasis (in %)**Produzione di energia termoelettrica da prodotti petroliferi (% del totale)**石油からの発電量 (%)**Generación de electricidad a partir del petróleo (% del total)**Производство электроэнергии за счет потребления нефти (в % к общему производству)*

	1960	1971	1973	1980	1990	2000	2008	2009	2010e
Australia	5.52	3.37	2.61	5.43	2.30	0.85	1.08	1.01	0.68
Austria	4.28	12.30	14.06	13.96	3.82	2.84	1.94	1.73	1.88
Belgium	13.23	54.14	53.72	34.67	1.87	0.96	0.49	0.31	0.34
Canada	1.03	2.89	3.36	3.70	3.42	2.43	1.38	1.38	1.47
Chile	..	25.55	20.48	14.74	9.62	4.25	26.95	20.01	13.22
Czech Republic	..	10.83	11.30	9.55	0.87	0.51	0.16	0.19	0.19
Denmark	27.92	81.28	64.07	18.00	3.39	12.31	3.10	3.23	2.17
Estonia	..	..	..	..	8.28	0.66	0.35	0.51	0.32
Finland	9.09	23.03	31.65	10.84	3.09	0.87	0.55	0.74	0.75
France	3.55	28.09	40.17	18.83	2.08	1.34	1.03	1.15	1.12
Germany	2.71	11.66	11.98	5.73	1.90	0.84	1.46	1.64	1.22
Greece	26.33	33.88	49.54	40.12	22.27	16.63	15.88	12.57	12.64
Hungary	..	22.24	17.19	13.89	4.75	12.51	0.89	1.76	1.24
Iceland	4.54	3.02	3.75	1.48	0.13	0.07	0.01	0.01	0.01
Ireland	5.48	62.86	66.32	60.43	10.04	19.59	5.71	3.28	2.11
Israel	..	99.23	100.00	100.00	49.89	31.09	10.51	4.05	3.89
Italy	6.67	55.40	62.36	57.00	48.19	31.81	10.03	9.00	7.30
Japan	17.06	62.63	73.24	46.23	29.67	13.07	12.93	8.80	8.87
Korea	..	80.61	82.29	78.67	17.90	11.99	3.46	4.39	3.21
Luxembourg	0.82	32.33	27.62	10.89	1.44	-	-	-	-
Mexico	..	35.52	41.13	57.94	53.58	46.20	18.89	17.53	16.06
Netherlands	19.42	26.22	12.33	38.42	4.33	2.95	1.92	1.31	1.17
New Zealand	-	2.02	6.11	0.17	0.02	-	0.30	0.02	0.00
Norway	0.70	0.42	0.19	0.15	0.00	0.01	0.02	0.02	0.02
Poland	0.11	2.30	2.34	2.89	1.17	1.34	1.76	1.80	1.83
Portugal	2.44	16.49	19.21	42.89	33.15	19.42	9.12	6.64	4.35
Slovak Republic	..	15.09	17.71	17.94	6.41	0.66	2.37	2.42	2.23
Slovenia	..	..	..	..	7.88	0.40	0.10	0.17	0.06
Spain	3.16	22.24	33.19	35.19	5.69	10.16	5.79	6.52	5.59
Sweden	10.10	21.15	19.44	10.38	0.89	1.06	0.58	0.53	1.78
Switzerland	0.87	9.35	7.07	1.02	0.70	0.34	0.19	0.15	0.18
Turkey	8.28	41.18	51.36	25.05	6.85	7.45	3.79	2.47	1.03
United Kingdom	15.04	23.02	25.65	11.67	10.91	2.26	1.49	1.17	0.89
United States	6.42	13.82	17.09	10.84	4.08	2.94	1.33	1.21	1.11
<b>OECD TOTAL*</b>	..	<b>21.66</b>	<b>25.40</b>	<b>17.52</b>	<b>9.14</b>	<b>6.12</b>	<b>3.69</b>	<b>3.12</b>	<b>2.80</b>
<b>OECD AMERICAS</b>	..	12.98	15.87	11.03	5.52	4.70	2.49	2.29	2.06
<b>OECD ASIA OCEANIA</b>	..	54.94	63.75	42.11	24.45	11.46	8.70	6.28	5.99
<b>OECD EUROPE*</b>	..	22.67	25.28	17.75	7.73	5.56	2.87	2.64	2.21
<b>IEA</b>	..	21.39	25.14	16.86	8.34	5.16	3.16	2.65	2.40

\* Excludes Estonia and Slovenia prior to 1990.

**Electricity generation from natural gas (% of total)***Production d'électricité à partir du gaz naturel (% du total)**Stromerzeugung auf Gasbasis (in %)**Produzione di energia termoelettrica da gas naturale (% del totale)**ガスからの発電量 (%)**Generación de electricidad a partir del gas natural (% del total)**Производство электроэнергии за счет потребления газа (в % к общему производству)*

	1960	1971	1973	1980	1990	2000	2008	2009	2010e
Australia	-	3.27	4.27	7.33	9.31	7.74	13.82	13.74	16.23
Austria	8.30	16.25	14.32	9.19	15.66	13.12	17.41	18.80	21.58
Belgium	0.28	18.58	23.70	11.24	7.69	19.30	29.49	32.64	32.71
Canada	3.50	3.14	6.00	2.46	2.00	5.53	6.38	6.22	6.66
Chile	..	1.11	1.12	1.30	1.02	26.07	3.66	6.47	17.47
Czech Republic	..	1.00	0.93	1.14	0.62	2.32	1.22	1.19	1.26
Denmark	-	-	-	-	2.67	24.34	19.35	18.52	20.38
Estonia	..	..	..	..	5.50	7.00	4.00	1.23	2.34
Finland	-	-	-	4.22	8.56	14.40	14.52	13.60	13.87
France	5.32	4.75	5.53	2.72	0.73	2.15	3.84	3.91	4.62
Germany	0.07	6.49	10.94	14.15	7.39	9.17	13.89	13.45	13.76
Greece	-	-	-	-	0.26	11.08	21.93	18.04	27.21
Hungary	..	11.77	16.22	35.21	15.73	18.76	37.92	29.02	31.07
Iceland	-	-	-	-	-	-	-	-	-
Ireland	-	-	-	15.24	27.70	39.13	56.00	58.45	61.26
Israel	..	0.77	-	-	-	0.03	26.99	32.75	37.77
Italy	3.84	2.22	3.11	5.03	18.63	37.55	55.08	51.08	52.13
Japan	0.09	1.44	2.26	14.17	20.00	23.96	26.30	27.37	27.48
Korea	..	-	-	-	9.11	10.21	18.32	15.56	20.25
Luxembourg	-	0.38	10.19	23.53	5.45	51.18	88.15	90.23	90.32
Mexico	..	17.64	14.25	15.48	12.48	20.31	50.49	53.05	52.22
Netherlands	0.88	60.43	79.53	39.83	50.88	57.49	58.96	60.53	62.15
New Zealand	-	0.32	1.41	7.54	17.70	24.39	24.29	20.64	21.97
Norway	-	-	-	-	-	0.15	0.31	3.21	3.94
Poland	0.23	3.28	1.68	0.12	0.09	0.65	3.02	3.17	3.07
Portugal	-	-	-	-	-	16.46	33.43	29.73	28.12
Slovak Republic	..	4.99	5.26	10.24	7.15	10.86	5.59	7.60	7.01
Slovenia	..	..	..	..	0.02	2.15	2.90	3.62	3.37
Spain	-	0.18	1.01	2.67	1.00	9.08	38.82	36.92	31.62
Sweden	-	-	-	-	0.27	0.32	0.40	1.13	2.80
Switzerland	-	-	-	0.61	0.60	1.30	1.09	1.02	1.19
Turkey	-	-	-	-	17.71	37.00	49.74	49.33	46.47
United Kingdom	-	0.96	0.97	0.75	1.57	39.55	45.82	44.49	46.43
United States	21.14	23.49	18.56	15.26	11.92	15.76	20.96	22.80	23.31
<b>OECD TOTAL*</b>	..	<b>12.95</b>	<b>11.64</b>	<b>10.90</b>	<b>10.10</b>	<b>15.81</b>	<b>22.02</b>	<b>22.70</b>	<b>23.35</b>
<b>OECD AMERICAS</b>	..	21.01	16.94	13.55	10.63	14.76	20.46	22.19	22.83
<b>OECD ASIA OCEANIA</b>	..	1.56	2.36	12.13	17.13	18.82	22.68	22.57	24.33
<b>OECD EUROPE*</b>	..	5.48	7.44	6.73	6.29	15.88	23.95	23.50	23.60
<b>IEA</b>	..	12.97	11.66	10.90	10.14	15.78	21.46	22.03	22.65

\* Excludes Estonia and Slovenia prior to 1990.

**Electricity generation from nuclear energy (% of total)***Production d'électricité à partir d'énergie nucléaire (% du total)**Stromerzeugung auf Kernkraftbasis (in %)**Produzione di energia nucleotermoelettrica (% del totale)**原子力からの発電量 (%)**Generación de electricidad a partir de energía nuclear (% del total)**Производство атомной электроэнергии (в % к общему производству)*

	1960	1971	1973	1980	1990	2000	2008	2009	2010e
Australia	-	-	-	-	-	-	-	-	-
Austria	-	-	-	-	-	-	-	-	-
Belgium	-	-	0.19	23.64	60.78	58.18	54.52	52.59	50.42
Canada	-	1.92	5.65	10.19	15.14	12.02	14.66	14.99	15.11
Chile	..	-	-	-	-	-	-	-	-
Czech Republic	..	-	-	-	20.21	18.64	31.93	33.30	32.81
Denmark	-	-	-	-	-	-	-	-	-
Estonia	..	..	..	..	-	-	-	-	-
Finland	-	-	-	17.23	35.34	32.12	29.65	32.65	28.35
France	0.19	5.99	8.08	23.80	75.28	77.45	77.16	76.24	75.50
Germany	-	1.90	3.23	11.92	27.84	29.64	23.53	23.01	22.89
Greece	-	-	-	-	-	-	-	-	-
Hungary	..	-	-	-	48.29	40.29	37.02	42.96	42.17
Iceland	-	-	-	-	-	-	-	-	-
Ireland	-	-	-	-	-	-	-	-	-
Israel	..	-	-	-	-	-	-	-	-
Italy	-	2.72	2.18	1.20	-	-	-	-	-
Japan	-	2.09	2.09	14.43	24.21	30.70	24.00	26.87	26.90
Korea	..	-	-	9.34	50.19	37.77	34.00	32.72	31.08
Luxembourg	-	-	-	-	-	-	-	-	-
Mexico	..	-	-	-	2.54	4.03	3.74	4.02	2.19
Netherlands	-	0.90	2.11	6.48	4.87	4.38	3.87	3.73	3.46
New Zealand	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-
Poland	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-
Slovak Republic	..	-	1.89	22.65	47.21	53.56	58.08	54.33	53.32
Slovenia	..	..	..	..	37.14	34.95	38.25	34.99	34.82
Spain	-	4.10	8.65	4.75	35.90	27.99	18.95	18.13	20.92
Sweden	-	0.14	2.70	27.50	46.71	39.47	42.62	38.20	37.68
Switzerland	-	4.46	17.14	29.78	42.98	39.99	41.32	41.53	40.14
Turkey	-	-	-	-	-	-	-	-	-
United Kingdom	1.60	10.77	9.95	13.03	20.69	22.72	13.65	18.58	16.43
United States	0.07	2.38	4.54	10.97	19.10	19.81	19.29	19.93	19.34
<b>OECD TOTAL*</b>	..	<b>2.70</b>	<b>4.22</b>	<b>10.95</b>	<b>22.67</b>	<b>23.12</b>	<b>21.08</b>	<b>21.56</b>	<b>21.24</b>
<b>OECD AMERICAS</b>	..	2.28	4.58	10.57	18.00	18.02	17.75	18.29	17.76
<b>OECD ASIA OCEANIA</b>	..	1.70	1.70	11.63	22.22	26.45	21.79	23.08	22.90
<b>OECD EUROPE*</b>	..	3.63	4.60	11.24	29.56	29.16	25.59	25.54	25.45
<b>IEA</b>	..	2.74	4.27	11.14	23.14	23.76	21.78	22.30	22.02

\* Excludes Estonia and Slovenia prior to 1990.

**Electricity generation from hydro energy (% of total)***Production d'électricité à partir d'énergie hydraulique (% du total)**Stromerzeugung auf Wasserkraftbasis (in %)**Produzione di energia idroelettrica (% del totale)**水力からの発電量 (%)**Generación de electricidad a partir de energía hidráulica (% del total)**Производство гидроэлектроэнергии (в % к общему производству)*

	1960	1971	1973	1980	1990	2000	2008	2009	2010e
Australia	18.64	21.83	17.72	13.59	9.17	7.80	4.63	4.69	4.86
Austria	73.56	57.50	60.65	69.05	63.92	69.87	59.15	61.40	51.88
Belgium	1.14	0.40	0.42	0.52	0.38	0.56	0.49	0.37	0.33
Canada	92.09	73.24	72.07	67.28	61.56	59.20	58.40	60.33	58.78
Chile	..	56.42	63.83	66.98	48.60	46.20	40.52	41.66	34.89
Czech Republic	..	3.32	2.63	4.56	1.86	2.41	2.43	2.97	3.27
Denmark	0.45	0.13	0.13	0.11	0.11	0.08	0.07	0.05	0.05
Estonia	..	..	..	..	-	0.06	0.26	0.36	0.21
Finland	61.23	49.02	40.28	25.07	19.97	20.95	22.10	17.60	16.03
France	54.47	31.34	26.13	27.02	12.90	12.52	11.20	10.63	11.06
Germany	10.19	4.11	4.07	4.09	3.18	3.80	3.32	3.18	3.09
Greece	20.31	22.94	15.00	15.03	5.09	6.91	5.26	8.80	10.89
Hungary	..	0.64	0.57	0.47	0.63	0.51	0.53	0.63	0.50
Iceland	95.46	96.18	95.13	96.95	93.22	82.72	75.46	72.94	73.81
Ireland	41.20	7.39	8.76	7.93	4.90	3.57	3.25	3.23	1.97
Israel	..	-	-	-	0.01	0.07	0.03	0.04	0.04
Italy	81.90	31.54	26.07	24.66	14.84	16.38	13.28	17.04	17.15
Japan	50.65	21.99	14.35	15.42	10.69	8.32	7.11	7.22	6.92
Korea	..	12.52	8.66	5.33	6.04	1.39	0.69	0.62	0.77
Luxembourg	1.37	4.13	3.37	10.68	11.22	29.25	4.84	3.36	3.34
Mexico	..	46.33	43.64	25.22	20.27	16.23	14.96	10.23	13.82
Netherlands	-	-	-	-	0.12	0.16	0.09	0.09	0.09
New Zealand	79.75	84.75	77.25	83.77	71.86	62.25	50.96	55.71	55.14
Norway	99.30	99.55	99.78	99.84	99.62	99.50	98.47	95.67	94.75
Poland	2.16	2.26	1.74	1.94	1.05	1.47	1.39	1.57	1.86
Portugal	95.09	78.14	74.81	52.71	32.29	26.11	14.95	16.74	30.65
Slovak Republic	..	13.58	10.75	11.30	7.37	14.98	14.04	16.85	20.08
Slovenia	..	..	..	..	23.71	28.14	24.50	28.74	27.76
Spain	83.94	51.66	38.21	27.05	16.81	13.31 e	7.56	9.05	14.30
Sweden	88.82	78.17	76.70	61.12	49.67	54.11	46.08	48.21	46.68
Switzerland	99.13	86.19	75.79	68.10	54.18	55.70	53.75	53.58	54.18
Turkey	35.60	26.68	20.95	48.76	40.23	24.72	16.77	18.46	24.52
United Kingdom	2.27	1.31	1.37	1.37	1.64	1.36	1.34	1.41	0.94
United States	18.44	15.47	13.50	11.49	8.53	6.29	5.91	6.62	5.98
<b>OECD TOTAL*</b>	..	<b>22.91</b>	<b>20.53</b>	<b>19.27</b>	<b>15.49</b>	<b>13.78</b>	<b>12.32</b>	<b>12.70</b>	<b>12.43</b>
<b>OECD AMERICAS</b>	..	22.66	21.12	19.26	15.77	13.61	13.09	13.58	12.72
<b>OECD ASIA OCEANIA</b>	..	23.47	16.40	16.51	11.58	8.11	6.06	6.18	6.03
<b>OECD EUROPE*</b>	..	23.07	21.15	20.29	16.77	16.91	14.45	14.88	15.42
<b>IEA</b>	..	22.65	20.25	19.10	15.35	13.59	12.06	12.54	12.22

\* Excludes Estonia and Slovenia prior to 1990.

Excludes hydro pumped storage.

**Other electricity generation (% of total)***Autre Production d'électricité (% du total)**Sonstige Stromerzeugung (in %)**Produzione di energia elettrica da altre fonti (% del totale)**その他の電力発電量 (%)**Otra electricidad generada (% del total)**Производство электричества из других видов энергии (в % от общего)*

	1960	1971	1973	1980	1990	2000	2008	2009	2010e
Australia	1.41	0.50	0.52	0.40	0.49	0.59	2.35	2.62	2.42
Austria	-	0.83	0.65	0.78	2.39	2.91	10.66	10.39	15.30
Belgium	-	-	0.29	0.57	1.04	1.63	6.36	7.25	8.04
Canada	-	-	-	0.35	0.83	1.41 e	1.70	1.89	2.17
Chile	..	0.77	0.58	0.89	5.24	2.35	5.23	7.33	7.59
Czech Republic	..	-	-	-	-	0.99	2.07	2.73	3.66
Denmark	-	-	-	0.04	3.16	17.02	29.84	29.56	33.46
Estonia	..	..	..	..	-	0.15	1.60	5.80	7.87
Finland	-	-	-	-	9.48	12.80	14.70	13.33	14.51
France	-	0.46	0.44	0.28	0.53	0.79	2.13	2.72	3.03
Germany	-	0.85	0.78	1.17	0.96	3.41	11.76	14.86	14.98
Greece	-	-	-	-	0.01	1.15	3.91	4.63	4.14
Hungary	..	-	-	-	0.12	0.34	5.64	7.75	8.16
Iceland	-	0.80	1.12	1.57	6.65	17.22	24.53	27.05	26.17
Ireland	-	-	-	-	-	1.43	8.61	11.25	10.71
Israel	..	-	-	-	-	-	0.40	0.62	0.60
Italy	3.77	3.40	2.67	2.16	1.56	2.96 e	6.11	7.83	9.32
Japan	-	-	0.06	0.16	1.47	1.81 e	2.82 e	2.88 e	2.89
Korea	..	-	-	-	0.00	0.04	0.33	0.47	0.59
Luxembourg	-	-	-	3.27	5.45	19.58	7.01	6.41	6.34
Mexico	..	-	0.43	1.37	4.43	3.72	3.74	3.86	3.63
Netherlands	-	-	-	1.58	1.55	4.78	10.26	10.91	11.18
New Zealand	5.83	8.11	6.71	6.63	8.36	9.42	13.43	16.05	18.26
Norway	-	-	-	-	0.31	0.29	1.10	1.02	1.20
Poland	0.04	0.24	0.35	0.34	0.19	0.39	3.01	4.33	5.17
Portugal	1.37	1.81	2.04	2.10	2.45	4.15	17.88	20.83	23.23
Slovak Republic	..	-	-	-	-	0.10	2.02	2.31	2.13
Slovenia	..	..	..	..	-	0.51	1.79	1.20	1.44
Spain	-	0.08	0.07	0.33	0.46	3.08	12.81	16.61	18.72
Sweden	-	0.24	0.51	0.81	1.38	3.31	8.82	10.75	8.77
Switzerland	-	-	-	0.36	1.46	2.67	3.65	3.71	4.31
Turkey	1.46	1.66	1.59	0.58	0.14	0.26	0.62	1.17	1.91
United Kingdom	-	-	-	-	0.22	1.44	4.73	5.85	6.27
United States	0.02	0.05	0.14	0.24	3.31	2.30 e	3.41 e	4.00 e	4.27
<b>OECD TOTAL*</b>	..	<b>0.29</b>	<b>0.31</b>	<b>0.44</b>	<b>2.07</b>	<b>2.19</b>	<b>4.35</b>	<b>5.13</b>	<b>5.50</b>
<b>OECD AMERICAS</b>	..	0.05	0.13	0.28	3.04	2.25	3.24	3.78	4.04
<b>OECD ASIA OCEANIA</b>	..	0.32	0.32	0.38	1.37	1.48	2.34	2.50	2.54
<b>OECD EUROPE*</b>	..	0.61	0.56	0.68	0.97	2.47	7.02	8.53	9.21
<b>IEA</b>	..	0.29	0.31	0.43	2.03	2.16	4.36	5.15	5.53

\* Excludes Estonia and Slovenia prior to 1990.

Includes geothermal, solar, biofuels, waste, tide, wave, ocean, wind and other fuel sources.

**Total electricity generation (GWh)***Production totale d'électricité (GWh)**Gesamte Stromerzeugung (GWh)**Produzione totale di energia elettrica (GWh)**総発電量 (GWh)**Generación total de electricidad (GWh)**Общее производство электроэнергии (ГВт. ч)*

	1960	1971	1973	1980	1990	2000	2008	2009	2010e
Australia	21 449	53 045	64 411	95 234	154 287	209 870	257 098	260 898	256 195
Austria	15 442	28 202	30 916	41 600	49 296	59 878	64 079	65 620	67 016
Belgium	15 152	33 237	40 615	53 091	70 292	82 773	83 583	89 796	95 084
Canada	115 966	221 833	270 081	373 278	482 041	605 596	640 940	603 123	597 986
Chile	..	8 524	8 766	11 751	18 372	40 078	59 704	60 722	62 453
Czech Republic	..	36 372	41 174	52 656	62 271	72 911	83 166	81 697	85 322
Denmark	5 540	18 624	19 120	26 765	25 982	36 053	36 638	36 364	38 568
Estonia	..	..	..	..	17 392	8 509	10 581	8 779	12 964
Finland	8 605	21 681	26 102	40 747	54 377	69 991	77 436	72 062	80 354
France	75 059	155 849	182 508	257 308	417 206	536 054	569 510	537 410	567 637
Germany	118 069	327 249	374 352	466 340	547 650	572 313	631 211	586 414	614 069
Greece	2 290	11 562	14 817	22 653	34 775	53 425	62 912	61 094	60 764
Hungary	..	14 994	17 643	23 876	28 436	35 191	40 025	35 908	37 375
Iceland	551	1 621	2 320	3 184	4 510	7 684	16 468	16 834	17 059
Ireland	2 262	6 304	7 348	10 566	14 229	23 673	29 859	27 887	28 258
Israel	..	7 639	8 720	12 404	20 898	42 661	56 995	55 006	57 236
Italy	55 990	123 920	143 916	183 474	213 147	269 947	313 526	288 336	295 019
Japan	115 500	382 900	465 387	572 531	835 514	1 048 984	1 075 493	1 040 983	1 071 323
Korea	..	10 540	14 825	37 239	105 371	288 526	443 935	451 676	478 040
Luxembourg	1 464	1 333	1 394	918	624	424	2 726	3 151	3 233
Mexico	..	31 039	37 100	66 962	115 837	204 177	261 863	261 018	268 433
Netherlands	16 516	44 904	52 627	64 806	71 938	89 631	107 645	113 502	114 734
New Zealand	6 978	15 478	18 531	22 596	32 262	39 247	43 850	43 472	44 820
Norway	31 444	63 528	73 029	83 750	121 611	139 608	141 168	131 950	124 054
Poland	29 282	69 537	83 908	120 941	134 415	143 174	154 710	151 121	156 972
Portugal	3 279	7 896	9 792	15 206	28 355	43 372	45 471	49 482	52 685
Slovak Republic	..	10 865	12 299	19 967	25 497	30 798	28 760	25 919	27 331
Slovenia	..	..	..	..	12 444	13 624	16 399	16 401	16 248
Spain	18 614	61 585	75 660	109 226	151 150	222 235	311 146	291 016	295 299
Sweden	34 936	66 534	78 060	96 316	145 984	145 231	149 894	136 592	152 785
Switzerland	20 700	31 181	36 817	48 175	54 994	66 127	67 040	66 669	66 556
Turkey	2 815	9 781	12 425	23 275	57 543	124 922	198 418	194 813	211 208
United Kingdom	138 748	255 756	281 352	284 071	317 755	374 375	384 580	371 980	378 096
United States	799 679	1 703 380	1 965 509	2 427 320	3 202 813	4 025 885	4 342 979	4 165 394	4 337 068
<b>OECD TOTAL*</b>	<b>..</b>	<b>3 836 893</b>	<b>4 471 524</b>	<b>5 668 226</b>	<b>7 629 268</b>	<b>9 726 947</b>	<b>10 809 808</b>	<b>10 403 089</b>	<b>10 772 244</b>
<b>OECD AMERICAS</b>	<b>..</b>	<b>1 964 776</b>	<b>2 281 456</b>	<b>2 879 311</b>	<b>3 819 063</b>	<b>4 875 736</b>	<b>5 305 486</b>	<b>5 090 257</b>	<b>5 265 940</b>
<b>OECD ASIA OCEANIA</b>	<b>..</b>	<b>469 602</b>	<b>571 874</b>	<b>740 004</b>	<b>1 148 332</b>	<b>1 629 288</b>	<b>1 877 371</b>	<b>1 852 035</b>	<b>1 907 614</b>
<b>OECD EUROPE*</b>	<b>..</b>	<b>1 402 515</b>	<b>1 618 194</b>	<b>2 048 911</b>	<b>2 661 873</b>	<b>3 221 923</b>	<b>3 626 951</b>	<b>3 460 797</b>	<b>3 598 690</b>
<b>IEA</b>	<b>..</b>	<b>3 788 070</b>	<b>4 414 618</b>	<b>5 573 925</b>	<b>7 439 815</b>	<b>9 410 214</b>	<b>10 387 798</b>	<b>9 984 329</b>	<b>10 337 851</b>

\* Excludes Estonia and Slovenia prior to 1990.

Excludes hydro pumped storage.

**Final consumption of coal and peat (Mtoe)***Consommation finale de charbon et de tourbe (Mtep)**Endverbrauch von Kohle und Torf (Mtoe)**Consumo finale di carbone e torba (Mtep)*

石炭及び泥炭の最終消費量(石油換算百万トン)

*Consumo final de carbón y turba (Mtep)**Конечное потребление угля и торфа (Мтнэ)*

	1960	1971	1973	1980	1990	2000	2008	2009	2010e
Australia	6.04	5.26	5.20	4.51	4.48	4.19	4.08	4.08	..
Austria	3.64	2.51	2.35	1.97	1.35	0.88	0.70	0.61	..
Belgium	9.01	5.55	5.71	4.23	3.54	2.58	1.21	0.75	..
Canada	10.32	5.06	5.22	4.33	3.09	3.51	3.21	2.67	..
Chile	..	0.76	0.70	0.57	0.63	0.63	0.55	0.29	..
Czech Republic	..	23.42	20.25	19.63	13.95	4.66	2.97	2.88	..
Denmark	2.13	0.42	0.46	0.58	0.43	0.31	0.23	0.14	..
Estonia	..	..	..	..	0.71	0.15	0.19	0.11	..
Finland	1.61	0.84	1.07	1.11	1.56	1.15	0.77	0.58	..
France	28.75	15.95	13.96	8.61	7.78	4.43	4.03	3.27	..
Germany	62.50	60.22	55.69	49.20	39.25	8.96	8.53	6.81	..
Greece	0.17	0.38	0.52	0.47	1.22	0.88	0.40	0.17	..
Hungary	..	4.61	4.08	3.54	2.40	0.54	0.51	0.35	..
Iceland	0.02	0.00	0.00	0.02	0.06	0.10	0.09	0.08	..
Ireland	1.50	1.31	1.03	1.36	1.53	0.63	0.62	0.55	..
Israel	..	0.01	0.00	0.00	0.01	0.02	-	-	..
Italy	5.78	4.08	3.68	3.82	3.57	2.68	2.12	1.10	..
Japan	27.23	22.97	24.08	25.25	32.31	27.07	28.22	25.81	..
Korea	..	5.17	6.49	9.74	11.72	9.06	9.98	8.18	..
Luxembourg	1.31	0.99	0.98	1.04	0.55	0.13	0.08	0.08	..
Mexico	..	1.10	1.37	1.61	1.56	1.38	1.26	1.09	..
Netherlands	5.68	1.25	1.08	0.78	1.38	0.91	0.95	0.76	..
New Zealand	1.20	0.85	0.90	0.82	0.89	0.49	0.60	0.53	..
Norway	0.77	0.82	0.82	0.87	0.78	0.95	0.66	0.47	..
Poland	27.05	28.98	29.02	31.96	17.34	13.25	12.06	11.18	..
Portugal	0.52	0.38	0.24	0.25	0.65	0.48	0.07	0.02	..
Slovak Republic	..	3.60	3.84	4.09	4.11	1.41	1.31	1.39	..
Slovenia	..	..	..	..	0.23	0.09	0.09	0.06	..
Spain	6.79	4.75	4.21	2.82	3.53	1.35	1.47	1.03	..
Sweden	2.01	0.96	1.03	0.92	1.07	0.77	0.84	0.47	..
Switzerland	1.67	0.51	0.42	0.33	0.35	0.14	0.16	0.15	..
Turkey	2.28	2.40	2.97	4.20	7.53	10.84	12.78	12.81	..
United Kingdom	70.42	40.42	31.72	14.14	10.77	4.12	3.29	2.82	..
United States	92.46	78.49	74.09	56.16	55.66	32.58	30.08	23.54	..
<b>OECD TOTAL*</b>	..	<b>324.01</b>	<b>303.17</b>	<b>258.91</b>	<b>235.97</b>	<b>141.31</b>	<b>134.12</b>	<b>114.83</b>	..
<b>OECD AMERICAS</b>	..	85.41	81.38	62.67	60.93	38.10	35.11	27.59	..
<b>OECD ASIA OCEANIA</b>	..	34.26	36.66	40.32	49.41	40.84	42.89	38.61	..
<b>OECD EUROPE*</b>	..	204.35	185.13	155.92	125.64	62.37	56.13	48.64	..
<b>IEA</b>	..	322.15	301.09	256.72	232.77	138.94	131.95	113.20	..

\* Excludes Estonia and Slovenia prior to 1990.

2010 data for consumption will be released in the 2012 edition.

For the United States, coal used by autoproducers of electricity and heat has been included in final consumption prior to 1992.

**Final consumption of oil (Mtoe)***Consommation finale de pétrole (Mtep)**Endverbrauch von Öl (Mtoe)**Consumo finale di petrolio (Mtep)*

石油の最終消費量(石油換算百万トン)

*Consumo final de petróleo (Mtep)**Конечное потребление нефти и нефтепродуктов (Мтнэ)*

	1960	1971	1973	1980	1990	2000	2008	2009	2010e
Australia	11.70	22.39	24.26	26.92	29.00	34.72	38.04	37.67	..
Austria	2.82	8.48	9.95	9.76	8.85	10.38	11.40	10.99	..
Belgium	6.10	18.16	20.16	16.85	16.13	20.95	21.92	19.93	..
Canada	37.17	66.74	75.65	79.99	68.79	80.78	89.97	85.32	..
Chile	..	3.80	3.84	4.03	5.49	9.19	11.57	11.70	..
Czech Republic	..	6.20	7.75	9.23	8.20	7.29	9.13	8.76	..
Denmark	4.28	12.99	13.31	11.32	6.86	6.57	6.58	6.22	..
Estonia	..	..	..	..	1.98	0.79	1.00	0.89	..
Finland	2.21	9.06	11.26	10.01	9.19	7.61	8.30	7.85	..
France	23.42	82.97	96.03	87.36	75.04	80.94	75.62	72.80	..
Germany	27.28	116.94	133.30	122.68	111.42	114.67	100.19	95.08	..
Greece	1.59	5.08	6.46	8.07	9.78	12.41	13.67	13.46	..
Hungary	..	5.10	6.46	9.00	7.12	5.20	6.56	6.36	..
Iceland	0.35	0.45	0.54	0.55	0.59	0.70	0.80	0.74	..
Ireland	0.98	3.27	3.55	3.90	3.73	6.51	7.75	6.77	..
Israel	..	2.63	2.91	3.44	5.00	8.03	8.90	9.03	..
Italy	17.13	63.42	69.94	64.20	61.45	62.30	60.26	55.68	..
Japan	21.01	144.54	171.06	156.56	183.99	209.55	171.51	171.62	..
Korea	..	7.64	9.90	18.73	43.66	79.88	77.77	79.70	..
Luxembourg	0.22	1.23	1.46	1.01	1.48	1.97	2.50	2.31	..
Mexico	..	18.92	22.18	39.69	51.21	61.66	76.02	72.50	..
Netherlands	7.41	19.57	23.47	24.35	18.07	20.79	27.74	26.38	..
New Zealand	1.65	3.09	3.49	3.62	4.03	5.31	6.08	5.81	..
Norway	3.29	6.95	7.31	8.09	7.36	7.51	8.40	8.21	..
Poland	1.93	6.95	8.96	13.00	10.93	17.51	22.01	22.14	..
Portugal	1.21	3.45	4.21	5.77	8.31	12.30	10.76	10.19	..
Slovak Republic	..	3.38	3.83	5.04	4.89	3.01	3.25	2.80	..
Slovenia	..	..	..	..	1.50	2.33	2.95	2.56	..
Spain	4.85	23.82	28.86	36.73	38.15	52.16	55.17	51.01	..
Sweden	11.55	23.55	24.38	20.16	14.02	14.17	11.54	10.61	..
Switzerland	3.72	12.12	13.41	12.04	11.60	11.33	11.10	10.77	..
Turkey	1.38	7.26	9.54	12.69	20.37	26.13	27.45	28.60	..
United Kingdom	29.40	67.55	73.09	59.62	61.22	62.57	59.83	56.43	..
United States	431.42	633.28	693.49	689.14	683.29	793.42	778.05	740.65	..
<b>OECD TOTAL*</b>	..	<b>1 410.97</b>	<b>1 584.02</b>	<b>1 573.54</b>	<b>1 592.69</b>	<b>1 850.62</b>	<b>1 823.80</b>	<b>1 751.55</b>	..
<b>OECD AMERICAS</b>	..	722.73	795.17	812.85	808.78	945.05	955.61	910.17	..
<b>OECD ASIA OCEANIA</b>	..	180.28	211.62	209.26	265.68	337.49	302.30	303.83	..
<b>OECD EUROPE*</b>	..	507.96	577.22	551.43	518.23	568.08	565.89	537.55	..
<b>IEA</b>	..	1 385.18	1 554.54	1 525.84	1 526.92	1 767.92	1 722.56	1 654.14	..

\* Excludes Estonia and Slovenia prior to 1990.

2010 data for consumption will be released in the 2012 edition.



**Final consumption of natural gas (Mtoe)***Consommation finale de gaz naturel (Mtep)**Endverbrauch von Erdgas (Mtoe)**Consumo finale di gas naturale (Mtep)**ガスの最終消費量(石油換算百万トン)**Consumo final de gas natural (Mtep)**Конечное потребление газа (Мтпэ)*

	1960	1971	1973	1980	1990	2000	2008	2009	2010e
Australia	-	1.01	2.11	5.03	8.64	11.39	13.24	13.16	..
Austria	0.47	1.05	1.45	2.83	3.04	4.27	4.71	4.28	..
Belgium	-	3.13	4.60	7.08	6.82	10.16	10.66	10.11	..
Canada	6.32	20.79	23.72	36.22	43.30	53.41	53.22	54.70	..
Chile	..	0.00	0.04	0.10	0.90	3.29	1.40	1.45	..
Czech Republic	..	0.68	0.81	1.18	4.24	5.91	5.94	5.46	..
Denmark	-	-	-	-	1.12	1.65	1.61	1.55	..
Estonia	..	..	..	..	0.44	0.28	0.35	0.20	..
Finland	-	-	-	0.43	0.98	1.00	1.10	0.95	..
France	0.99	6.97	10.27	19.27	23.92	32.14	33.05	31.28	..
Germany	0.38	11.48	18.58	33.48	39.05	55.10	58.89	57.27	..
Greece	-	-	-	-	0.10	0.38	1.00	1.07	..
Hungary	..	2.29	2.80	4.61	6.20	6.69	6.47	6.09	..
Iceland	-	-	-	-	-	-	-	-	..
Ireland	-	-	-	0.35	1.00	1.58	1.66	1.57	..
Israel	..	0.09	0.05	0.13	0.03	0.00	-	0.17	..
Italy	4.61	9.56	12.35	19.73	30.39	38.58	37.31	36.63	..
Japan	0.56	2.49	3.11	5.84	15.24	23.10	32.61	32.23	..
Korea	..	-	-	-	0.67	10.92	17.58	18.12	..
Luxembourg	-	0.01	0.18	0.36	0.42	0.61	0.67	0.63	..
Mexico	..	6.12	7.26	12.84	14.16	12.95	12.50	11.80	..
Netherlands	0.08	13.51	19.29	24.25	22.68	23.34	21.57	21.03	..
New Zealand	0.05	0.05	0.12	0.35	1.80	2.98	1.30	1.70	..
Norway	-	-	-	-	-	0.59	0.85	0.70	..
Poland	0.42	3.48	4.42	6.96	7.69	8.16	10.21	9.71	..
Portugal	-	-	-	-	-	0.79	1.44	1.44	..
Slovak Republic	..	1.18	1.40	1.63	3.91	4.17	3.90	3.24	..
Slovenia	..	..	..	..	0.71	0.69	0.74	0.66	..
Spain	-	0.17	0.45	0.72	4.32	12.29	15.07	13.28	..
Sweden	-	-	-	-	0.33	0.44	0.56	0.57	..
Switzerland	-	0.01	0.11	0.71	1.49	2.18	2.58	2.47	..
Turkey	-	-	-	-	0.71	4.91	13.23	11.25	..
United Kingdom	0.03	8.45	18.37	37.24	41.77	52.42	46.66	41.88	..
United States	191.50	357.94	366.97	337.41	302.99	359.89	328.73	311.99	..
<b>OECD TOTAL*</b>	..	<b>450.48</b>	<b>498.48</b>	<b>558.73</b>	<b>589.07</b>	<b>746.25</b>	<b>740.81</b>	<b>708.64</b>	..
<b>OECD AMERICAS</b>	..	<b>384.86</b>	<b>398.00</b>	<b>386.57</b>	<b>361.35</b>	<b>429.54</b>	<b>395.85</b>	<b>379.94</b>	..
<b>OECD ASIA OCEANIA</b>	..	<b>3.65</b>	<b>5.39</b>	<b>11.34</b>	<b>26.38</b>	<b>48.40</b>	<b>64.73</b>	<b>65.38</b>	..
<b>OECD EUROPE*</b>	..	<b>61.98</b>	<b>95.09</b>	<b>160.82</b>	<b>201.34</b>	<b>268.32</b>	<b>280.23</b>	<b>263.33</b>	..
<b>IEA</b>	..	<b>444.27</b>	<b>491.13</b>	<b>545.67</b>	<b>572.83</b>	<b>729.05</b>	<b>725.82</b>	<b>694.37</b>	..

\* Excludes Estonia and Slovenia prior to 1990.

2010 data for consumption will be released in the 2012 edition.

For the United States, gas used by autoproducers of electricity and heat has been included in final consumption prior to 1989.

**Final consumption of electricity (Mtoe)**  
*Consommation finale d'électricité (Mtep)*  
*Stromendverbrauch (Mtoe)*  
*Consumo finale di energia elettrica (Mtep)*  
 電力の最終消費量 (石油換算百万トン)  
*Consumo final de electricidad (Mtep)*  
*Конечное потребление электроэнергии (Мтнэ)*

	1960	1971	1973	1980	1990	2000	2008	2009	2010e
Australia	1.51	3.89	4.51	6.81	11.11	14.86	18.24	18.38	..
Austria	0.98	1.88	2.18	2.84	3.68	4.43	5.23	5.06	..
Belgium	0.98	2.40	2.94	3.73	4.99	6.67	7.11	6.64	..
Canada	8.38	16.58	18.93	26.08	35.96	41.42	42.98	41.06	..
Chile	..	0.61	0.63	0.84	1.33	3.16	4.60	4.65	..
Czech Republic	..	2.30	2.54	3.26	4.14	4.25	4.99	4.72	..
Denmark	0.40	1.20	1.38	1.86	2.44	2.79	2.86	2.72	..
Estonia	..	..	..	..	0.60	0.43	0.60	0.57	..
Finland	0.69	1.86	2.32	3.20	5.07	6.50	7.10	6.63	..
France	5.19	10.86	12.78	17.98	25.99	33.10	37.22	36.42	..
Germany	8.30	23.29	26.91	33.70	39.14	41.58	45.20	42.62	..
Greece	0.16	0.85	1.09	1.71	2.45	3.71	4.87	4.71	..
Hungary	..	1.31	1.51	2.20	2.72	2.53	2.95	2.85	..
Iceland	0.04	0.12	0.18	0.25	0.34	0.59	1.31	1.35	..
Ireland	0.16	0.45	0.53	0.74	1.02	1.74	2.29	2.15	..
Israel	..	0.56	0.65	0.94	1.56	3.32	4.11	3.91	..
Italy	4.03	9.23	10.58	13.74	18.46	23.48	26.60	24.94	..
Japan	8.18	29.26	35.70	44.14	64.46	81.16	83.11	80.34	..
Korea	..	0.79	1.10	2.82	8.12	22.63	34.37	34.89	..
Luxembourg	0.12	0.22	0.26	0.31	0.36	0.46	0.57	0.53	..
Mexico	..	2.23	2.71	4.92	8.62	13.95	17.40	17.29	..
Netherlands	1.17	3.24	3.81	4.94	6.32	8.41	9.39	8.94	..
New Zealand	0.49	1.13	1.37	1.68	2.43	2.95	3.29	3.26	..
Norway	2.34	4.65	5.23	6.43	8.33	9.42	9.63	9.06	..
Poland	1.72	4.22	5.01	7.31	8.28	8.48	10.12	9.69	..
Portugal	0.24	0.59	0.70	1.23	2.02	3.30	4.16	4.12	..
Slovak Republic	..	0.93	1.06	1.64	2.01	1.89	2.13	1.99	..
Slovenia	..	..	..	..	0.79	0.90	1.10	0.97	..
Spain	1.18	4.06	5.08	7.72	10.82	16.21	23.11	21.96	..
Sweden	2.52	5.20	5.95	7.30	10.35	11.07	11.06	10.61	..
Switzerland	1.37	2.30	2.49	3.03	4.04	4.50	5.05	4.94	..
Turkey	0.18	0.67	0.85	1.68	3.87	8.25	13.71	13.31	..
United Kingdom	9.44	18.01	20.04	20.15	23.60	28.33	29.40	27.73	..
United States	59.17	123.83	143.39	174.19	226.49	300.95	327.90	313.23	..
<b>OECD TOTAL*</b>	..	<b>278.70</b>	<b>324.43</b>	<b>409.37</b>	<b>551.90</b>	<b>717.43</b>	<b>803.78</b>	<b>772.22</b>	..
<b>OECD AMERICAS</b>	..	143.25	165.66	206.03	272.40	359.49	392.88	376.23	..
<b>OECD ASIA OCEANIA</b>	..	35.63	43.34	56.39	87.68	124.91	143.12	140.78	..
<b>OECD EUROPE*</b>	..	99.82	115.43	146.95	191.82	233.03	267.77	255.22	..
<b>IEA</b>	..	275.18	320.25	402.42	538.65	695.07	774.66	743.48	..

\* Excludes Estonia and Slovenia prior to 1990.

2010 data for consumption will be released in the 2012 edition.

**Total final consumption of energy (Mtoe)***Consommation finale totale d'énergie (Mtep)**Gesamter Energieendverbrauch (Mtoe)**Consumo finale totale di energia (Mtep)**最終エネルギー総消費量（石油換算百万トン）**Consumo final total de energia (Mtep)**Общее конечное потребление топлива и энергии (Мтнэ)*

	1960	1971	1973	1980	1990	2000	2008	2009	2010e
Australia	23.31	36.08	39.58	46.79	56.56	69.57	78.04	77.71	..
Austria	8.69	14.57	16.61	18.64	19.72	23.54	27.34	26.28	..
Belgium	16.09	29.24	33.73	32.29	32.07	41.38	42.36	39.22	..
Canada	66.18	116.60	131.24	155.06	158.95	189.63	200.46	194.17	..
Chile	..	6.54	6.52	7.29	10.91	20.19	22.46	22.40	..
Czech Republic	..	32.61	31.35	34.66	34.30	25.69	27.03	25.75	..
Denmark	6.81	14.67	15.31	14.74	13.17	14.23	14.88	14.22	..
Estonia	..	..	..	..	6.01	2.58	3.18	2.78	..
Finland	9.32	16.25	19.19	19.34	22.24	23.98	26.19	24.38	..
France	58.35	125.61	142.22	141.29	143.00	162.97	165.87	160.26	..
Germany	98.46	218.23	241.71	248.66	240.99	232.07	235.20	223.92	..
Greece	1.91	6.76	8.53	10.70	14.49	18.45	21.19	20.59	..
Hungary	..	14.80	16.53	21.57	20.73	17.18	18.58	17.84	..
Iceland	0.51	0.84	1.02	1.28	1.64	2.11	2.81	2.81	..
Ireland	2.64	5.02	5.11	6.34	7.39	10.58	12.55	11.32	..
Israel	..	3.29	3.61	4.51	6.97	11.98	14.08	14.15	..
Italy	31.55	86.29	96.56	102.23	114.94	128.83	132.33	125.58	..
Japan	56.98	199.26	233.98	231.89	300.08	345.12	319.27	313.58	..
Korea	..	13.60	17.49	31.29	64.91	127.10	146.89	147.82	..
Luxembourg	1.64	2.45	2.87	2.71	2.80	3.18	3.90	3.63	..
Mexico	..	34.33	39.74	65.92	84.11	98.17	114.93	110.10	..
Netherlands	14.34	37.57	47.65	54.31	49.14	56.69	62.87	60.10	..
New Zealand	3.39	5.11	5.87	6.91	9.91	12.80	12.54	12.49	..
Norway	6.40	12.42	13.36	15.98	17.44	19.80	20.96	19.85	..
Poland	36.59	55.91	60.55	78.01	61.42	58.18	65.55	64.25	..
Portugal	2.65	5.04	5.74	7.91	13.35	19.44	19.52	18.88	..
Slovak Republic	..	9.79	10.86	13.03	15.75	11.42	11.81	10.83	..
Slovenia	..	..	..	..	3.69	4.65	5.50	4.87	..
Spain	12.82	32.81	38.59	48.16	60.74	85.48	99.39	92.29	..
Sweden	18.63	32.54	34.82	34.60	32.12	35.30	33.34	31.98	..
Switzerland	7.10	15.18	16.67	16.62	18.66	19.58	20.62	20.07	..
Turkey	9.73	16.17	19.86	26.32	40.07	57.85	74.38	73.16	..
United Kingdom	109.29	134.43	143.23	131.28	137.79	150.50	142.33	132.13	..
United States	806.89	1 228.61	1 315.37	1 311.29	1 293.50	1 546.23	1 538.38	1 462.52	..
<b>OECD TOTAL*</b>	..	<b>2 562.59</b>	<b>2 815.46</b>	<b>2 941.61</b>	<b>3 109.58</b>	<b>3 646.45</b>	<b>3 736.73</b>	<b>3 581.93</b>	..
<b>OECD AMERICAS</b>	..	1 386.08	1 492.87	1 539.57	1 547.48	1 854.22	1 876.23	1 789.19	..
<b>OECD ASIA OCEANIA</b>	..	257.34	300.53	321.38	438.42	566.57	570.82	565.76	..
<b>OECD EUROPE*</b>	..	919.17	1 022.06	1 080.65	1 123.67	1 225.66	1 289.68	1 226.98	..
<b>IEA</b>	..	2 517.58	2 764.56	2 862.60	2 996.24	3 506.78	3 573.76	3 424.82	..

\* Excludes Estonia and Slovenia prior to 1990.

2010 data for consumption will be released in the 2012 edition.

For the United States, fuels used by autoproducers of electricity and heat have been included in final consumption for some years.

**Industry consumption of coal and peat (Mtoe)***Consommation industrielle de charbon et de tourbe (Mtep)**Industrieverbrauch von Kohle und Torf (Mtoe)**Consumo di carbone e torba nell'industria (Mtep)*

石炭及び泥炭の産業用消費量(石油換算百万トン)

*Consumo industrial de carbón y turba (Mtep)**Потребление угля и торфа промышленным сектором (Мтнэ)*

	1960	1971	1973	1980	1990	2000	2008	2009	2010e
Australia	4.55	4.88	4.89	4.09	4.20	4.04	3.94	3.95	..
Austria	1.62	0.85	0.76	0.92	0.65	0.63	0.61	0.52	..
Belgium	4.12	3.00	3.54	3.20	3.01	2.38	1.05	0.51	..
Canada	5.95	4.26	4.70	4.22	3.04	3.48	3.18	2.64	..
Chile	..	0.48	0.46	0.44	0.52	0.58	0.51	0.26	..
Czech Republic	..	13.30	11.43	11.69	7.21	3.32	2.42	2.33	..
Denmark	0.25	0.13	0.23	0.39	0.32	0.27	0.18	0.10	..
Estonia	..	..	..	..	0.37	0.11	0.18	0.10	..
Finland	1.19	0.66	0.94	1.01	1.54	1.12	0.74	0.55	..
France	13.19	8.04	7.28	5.40	5.86	3.64	3.53	2.83	..
Germany	31.90	30.76	29.51	26.48	21.08	7.66	7.28	5.61	..
Greece	0.07	0.32	0.46	0.42	1.18	0.85	0.39	0.17	..
Hungary	..	1.64	1.57	1.29	0.52	0.29	0.35	0.21	..
Iceland	0.01	-	-	0.02	0.06	0.10	0.09	0.08	..
Ireland	0.33	0.11	0.07	0.12	0.25	0.11	0.16	0.11	..
Israel	..	0.01	0.00	0.00	0.01	0.02	-	-	..
Italy	2.82	2.51	2.66	2.98	3.29	2.45	1.95	1.00	..
Japan	17.89	16.70	18.65	21.42	31.35	26.47	27.69	25.30	..
Korea	..	0.37	0.39	1.35	3.05	8.50	8.93	7.29	..
Luxembourg	1.10	0.93	0.94	1.02	0.54	0.12	0.08	0.08	..
Mexico	..	1.10	1.37	1.61	1.56	1.38	1.26	1.09	..
Netherlands	1.68	0.69	0.76	0.69	1.33 e	0.88	0.94	0.75	..
New Zealand	0.74	0.63	0.71	0.56	0.71	0.37	0.46	0.45	..
Norway	0.47	0.56	0.76	0.84	0.77	0.95	0.66	0.47	..
Poland	8.82	10.42	10.80	10.85	6.74	7.56	4.56	3.65	..
Portugal	0.20	0.23	0.14	0.20	0.59	0.43	0.07	0.02	..
Slovak Republic	..	2.43	2.66	1.79	1.93	1.16	1.02	0.85	..
Slovenia	..	..	..	..	0.12	0.09	0.09	0.06	..
Spain	3.35	3.35	3.64	2.22	2.95	1.20	1.20	0.70	..
Sweden	1.12	0.70	0.89	0.83	1.00	0.74	0.82	0.45	..
Switzerland	0.65	0.13	0.11	0.23	0.31	0.11	0.15	0.14	..
Turkey	0.72	0.71	1.14	2.17	4.50	8.83	6.12	5.94	..
United Kingdom	26.30	16.95	14.04	5.96	6.38	2.51	2.63	2.16	..
United States	65.29	61.36	60.25	48.25	46.02	30.36	28.35	21.95	..
<b>OECD TOTAL*</b>	..	<b>188.22</b>	<b>185.77</b>	<b>162.63</b>	<b>162.95</b>	<b>122.70</b>	<b>111.59</b>	<b>92.31</b>	..
<b>OECD AMERICAS</b>	..	67.21	66.78	54.52	51.13	35.80	33.30	25.94	..
<b>OECD ASIA OCEANIA</b>	..	22.60	24.64	27.41	39.32	39.39	41.02	36.98	..
<b>OECD EUROPE*</b>	..	98.41	94.35	80.70	72.50	47.51	37.27	29.39	..
<b>IEA</b>	..	186.63	183.93	160.56	160.30	120.42	109.47	90.72	..

\* Excludes Estonia and Slovenia prior to 1990.

Includes non-energy use for industry/transformation/energy.

2010 data for consumption will be released in the 2012 edition.

For the United States, coal used by autoproducers of electricity and heat has been included in final consumption prior to 1992.

**Industry consumption of oil (Mtoe)***Consommation industrielle de pétrole (Mtep)**Ölverbrauch der Industrie (Mtoe)**Consumo di petrolio nell'industria (Mtep)**石油の産業用消費量(石油換算百万トン)**Consumo industrial de petróleo (Mtep)**Потребление нефти и нефтепродуктов промышленным сектором (Мтнэ)*

	1960	1971	1973	1980	1990	2000	2008	2009	2010e
Australia	4.54	8.27	7.94	7.93	6.38	7.63	7.27	7.10	..
Austria	1.21	2.72	3.06	1.89	1.79	1.84	2.07	2.06	..
Belgium	2.46	7.42	7.79	4.45	4.18	7.57	7.88	6.99	..
Canada	8.10	15.09	20.85	20.28	17.13	20.48	21.49	18.87	..
Chile	..	1.18	1.21	1.26	1.51	2.13	3.41	3.43	..
Czech Republic	..	3.85	5.04	5.93	4.42	2.59	2.78	2.49	..
Denmark	1.69	3.42	3.38	2.52	1.18	1.00	0.86	0.76	..
Estonia	..	..	..	..	0.76	0.13	0.10	0.07	..
Finland	0.81	3.48	5.00	3.73	2.57	1.89	2.55	2.25	..
France	9.47	36.00	34.42	29.97	17.22	18.73	18.24	16.19	..
Germany	8.68	39.92	46.05	36.06	26.40	27.39	25.07	23.15	..
Greece	0.48	1.83	2.37	3.04	2.05	2.50	2.45	2.06	..
Hungary	..	1.83	2.22	3.24	2.08	1.53	1.86	1.73	..
Iceland	0.04	0.09	0.13	0.15	0.15	0.23	0.31	0.28	..
Ireland	0.37	1.73	1.61	1.59	0.83	1.29	1.21	0.78	..
Israel	..	1.01	1.12	1.44	1.68	2.25	1.22	1.27	..
Italy	7.87	27.40	29.40	22.25	16.50	13.48	14.11	11.93	..
Japan	11.13	81.54	95.20	67.00	69.56	74.84	58.34	62.79	..
Korea	..	5.06	6.40	10.07	17.61	35.49	40.14	41.80	..
Luxembourg	0.05	0.70	0.80	0.20	0.29	0.06	0.02	0.02	..
Mexico	..	4.69	5.34	9.10	13.97	14.08	13.35	11.44	..
Netherlands	3.13	7.09	10.08	13.74	7.90	8.94	14.65	14.13	..
New Zealand	0.26	0.83	0.99	0.83	0.60	0.64	0.80	0.69	..
Norway	1.16	2.78	2.99	3.55	2.77	2.43	2.89	2.68	..
Poland	0.50	2.21	2.92	4.61	2.98	3.86	3.82	4.03	..
Portugal	0.36	1.39	1.74	2.54	3.80	4.55	3.11	2.62	..
Slovak Republic	..	1.53	1.73	2.90	2.89	1.48	1.18	1.00	..
Slovenia	..	..	..	..	0.23	0.39	0.32	0.27	..
Spain	0.80	11.36	13.32	15.83	10.93	14.30	12.24	11.26	..
Sweden	4.38	7.92	8.13	6.08	3.97	4.61	3.38	2.65	..
Switzerland	1.33	3.33	3.61	2.71	1.26	1.40	1.28	1.18	..
Turkey	0.13	1.94	2.59	4.17	6.04	7.95	5.86	7.38	..
United Kingdom	11.36	31.12	32.75	18.86	15.20	15.88	13.70	12.25	..
United States	111.96	137.21	157.11	187.39	144.53	156.44	160.83	148.31	..
<b>OECD TOTAL*</b>	..	<b>455.94</b>	<b>517.26</b>	<b>495.30</b>	<b>411.40</b>	<b>459.98</b>	<b>448.79</b>	<b>425.91</b>	..
<b>OECD AMERICAS</b>	..	158.17	184.51	218.03	177.15	193.13	199.08	182.05	..
<b>OECD ASIA OCEANIA</b>	..	96.72	111.64	87.26	95.83	120.85	107.77	113.65	..
<b>OECD EUROPE*</b>	..	201.06	221.12	190.01	138.41	146.00	141.95	130.20	..
<b>IEA</b>	..	448.97	509.46	483.36	393.09	440.77	430.08	409.15	..

\* Excludes Estonia and Slovenia prior to 1990.

Includes non-energy use for industry/transformation/energy.

2010 data for consumption will be released in the 2012 edition.

**Industry consumption of natural gas (Mtoe)**  
*Consommation industrielle de gaz naturel (Mtep)*  
*Gasverbrauch der Industrie (Mtoe)*  
*Consumo di gas naturale nell'industria (Mtep)*  
*ガスの産業用消費量 (石油換算百万トン)*  
*Consumo industrial de gas natural (Mtep)*  
*Потребление газа промышленным сектором (Мтнэ)*

	1960	1971	1973	1980	1990	2000	2008	2009	2010e
Australia	-	0.67	1.49	3.73	6.01	7.46	8.98	8.73	..
Austria	0.45	1.00	1.29	2.10	1.98	2.34	2.70	2.52	..
Belgium	-	2.24	3.15	3.63	3.30	5.33	5.50	4.84	..
Canada	2.73	10.18	11.87	18.53	20.23	23.40	24.12	26.34	..
Chile	..	0.00	0.00	0.01	0.74	2.98	0.91	0.92	..
Czech Republic	..	0.39	0.46	0.28	2.42	2.60	2.34	1.98	..
Denmark	-	-	-	-	0.53	0.78	0.72	0.66	..
Estonia	..	..	..	..	0.37	0.22	0.26	0.11	..
Finland	-	-	-	0.40	0.94	0.92	1.01	0.86	..
France	0.86	4.18	5.65	9.43	11.09	14.67	10.97	7.77	..
Germany	0.38	8.49	12.51	19.51	19.30	21.40 e	19.20	16.91	..
Greece	-	-	-	-	0.10	0.36	0.64	0.66	..
Hungary	..	1.86	2.22	3.50	3.76	1.70	1.56	1.21	..
Iceland	-	-	-	-	-	-	-	-	..
Ireland	-	-	-	0.35	0.79	0.85	0.59	0.53	..
Israel	..	0.09	0.05	0.13	0.03	0.00	-	0.17	..
Italy	3.92	7.20	8.64	11.10	14.64	17.60	11.99	10.46	..
Japan	0.51	1.79	1.64	2.14	4.00	5.30	7.79	7.71	..
Korea	..	-	-	-	0.07	2.88	5.47	5.63	..
Luxembourg	-	0.01	0.14	0.25	0.28	0.31	0.32	0.24	..
Mexico	..	5.82	6.87	12.37	13.35	12.25	11.54	10.89	..
Netherlands	0.03	6.06	8.14	8.41	8.79	9.00	7.27	6.76	..
New Zealand	0.01	0.01	0.03	0.26	1.55	2.51	1.05	1.39	..
Norway	-	-	-	-	-	0.59	0.77	0.61	..
Poland	0.38	3.20	4.00	5.40	4.43	4.12	5.00	4.50	..
Portugal	-	-	-	-	-	0.66	1.02	0.95	..
Slovak Republic	..	0.69	0.82	0.60	1.33	1.12	1.24	1.02	..
Slovenia	..	..	..	..	0.57	0.61	0.62	0.54	..
Spain	-	0.14	0.39	0.60	3.77	9.62	9.74	8.63	..
Sweden	-	-	-	-	0.25	0.30	0.37	0.41	..
Switzerland	-	0.01	0.01	0.35	0.58	0.73	0.90	0.82	..
Turkey	-	-	-	-	0.67	1.76	3.46	4.56	..
United Kingdom	0.03	4.64	9.42	13.50	11.96	15.26	11.45	9.55	..
United States	94.72	165.88	177.21	151.53	123.77	155.30	126.48	114.67	..
<b>OECD TOTAL*</b>	..	<b>224.55</b>	<b>256.01</b>	<b>268.11</b>	<b>261.61</b>	<b>324.93</b>	<b>285.98</b>	<b>263.53</b>	..
<b>OECD AMERICAS</b>	..	181.89	195.95	182.44	158.10	193.94	163.06	152.82	..
<b>OECD ASIA OCEANIA</b>	..	2.56	3.21	6.26	11.66	18.15	23.29	23.62	..
<b>OECD EUROPE*</b>	..	40.10	56.86	79.41	91.85	112.84	99.63	87.09	..
<b>IEA</b>	..	218.63	249.09	255.60	246.55	308.85	272.65	250.89	..

\* Excludes Estonia and Slovenia prior to 1990.

Includes non-energy use for industry/transformation/energy.

2010 data for consumption will be released in the 2012 edition.

For the United States, gas used by autoproducers of electricity and heat has been included in final consumption prior to 1989.

## Industry consumption of electricity (Mtoe)

*Consommation industrielle d'électricité (Mtep)**Stromverbrauch der Industrie (Mtoe)**Consumo di energia elettrica nell'industria (Mtep)*

電力の産業用消費量(石油換算百万トン)

*Consumo industrial de electricidad (Mtep)**Потребление электроэнергии промышленным сектором (Мтнэ)*

	1960	1971	1973	1980	1990	2000	2008	2009	2010e
Australia	0.86	1.68	1.99	2.80	5.09	6.62	8.16	8.08	..
Austria	0.59	0.93	1.04	1.22	1.55	1.78	2.25	2.20	..
Belgium	0.69	1.58	1.93	2.06	2.62	3.43	3.36	2.81	..
Canada	5.49	8.30	9.10	11.67	14.44	17.48	15.16	13.72	..
Chile	..	0.42	0.41	0.55	0.87	2.21	3.14	3.15	..
Czech Republic	..	1.51	1.61	1.91	2.32	1.63	2.09	1.88	..
Denmark	0.12	0.37	0.40	0.50	0.73	0.86	0.83	0.73	..
Estonia	..	..	..	..	0.25	0.16	0.20	0.17	..
Finland	0.53	1.27	1.55	1.96	2.80	3.68	3.72	3.11	..
France	3.56	6.42	7.22	8.20	9.86	11.58	12.08	9.96	..
Germany	5.59	13.03	15.34	17.16	18.62	18.20	20.82	17.38	..
Greece	0.08	0.51	0.63	0.90	1.04	1.17	1.33	1.21	..
Hungary	..	0.83	0.92	1.19	1.18	0.76	0.85	0.74	..
Iceland	0.02	0.08	0.13	0.17	0.22	0.45	1.12	1.16	..
Ireland	0.05	0.15	0.19	0.28	0.39	0.66	0.69	0.72	..
Israel	..	0.17	0.20	0.30	0.45	0.90	1.08	0.91	..
Italy	2.79	5.76	6.63	8.09	9.54	12.20	12.18	10.37	..
Japan	6.32	20.91	25.06	28.19	29.01	31.10	26.42	23.23	..
Korea	..	0.54	0.76	1.95	4.97	12.93	17.23	17.14	..
Luxembourg	0.10	0.18	0.20	0.21	0.24	0.24	0.30	0.27	..
Mexico	..	1.29	1.56	2.60	4.59	8.56	9.67	9.29	..
Netherlands	0.61	1.67	1.95	2.41	2.86	3.51	3.62	3.12	..
New Zealand	0.20	0.32	0.48	0.66	0.96	1.21	1.20	1.15	..
Norway	1.53	2.82	3.20	3.43	3.94	4.43	4.36	3.62	..
Poland	1.15	2.81	3.28	4.48	3.68	3.48	3.81	3.42	..
Portugal	0.16	0.37	0.44	0.71	1.05	1.37	1.52	1.39	..
Slovak Republic	..	0.63	0.72	1.11	1.29	0.84	1.08	0.93	..
Slovenia	..	..	..	..	0.51	0.48	0.54	0.43	..
Spain	0.83	2.65	3.26	4.64	5.44	7.37	8.53	8.11	..
Sweden	1.62	2.95	3.40	3.49	4.64	4.90	4.96	4.42	..
Switzerland	0.61	0.92	0.95	1.02	1.48	1.55	1.66	1.57	..
Turkey	0.12	0.44	0.55	1.05	2.35	3.96	6.22	5.88	..
United Kingdom	4.67	7.15	7.85	7.51	8.66	9.81	9.40	8.43	..
United States	27.86	49.24	55.54	64.17	74.52	98.22	78.68	68.72	..
<b>OECD TOTAL*</b>	..	<b>137.89</b>	<b>158.51</b>	<b>186.58</b>	<b>222.17</b>	<b>277.73</b>	<b>268.26</b>	<b>239.40</b>	..
<b>OECD AMERICAS</b>	..	59.25	66.61	78.98	94.43	126.47	106.65	94.87	..
<b>OECD ASIA OCEANIA</b>	..	23.62	28.50	33.90	40.49	52.76	54.08	50.50	..
<b>OECD EUROPE*</b>	..	55.02	63.41	73.69	87.25	98.49	107.53	94.02	..
<b>IEA</b>	..	135.93	156.22	182.96	215.26	264.98	252.51	224.30	..

\* Excludes Estonia and Slovenia prior to 1990.

2010 data for consumption will be released in the 2012 edition.

**Total industry consumption of energy (Mtoe)***Consommation industrielle totale d'énergie (Mtep)**Gesamtenergieverbrauch der Industrie (Mtoe)**Consumo totale di energia nell'industria (Mtep)**産業用エネルギー総消費量（石油換算百万トン）**Consumo total industrial de energía (Mtep)**Общее потребление топлива и энергии промышленным сектором (Мтнэ)*

	1960	1971	1973	1980	1990	2000	2008	2009	2010e
Australia	14.01	17.03	17.81	20.45	23.17	28.21	31.03	30.46	..
Austria	3.88	5.54	6.19	6.34	6.66	7.56	9.34	8.93	..
Belgium	7.27	14.23	16.73	13.70	13.49	19.51	18.78	16.27	..
Canada	24.34	43.36	52.32	61.21	61.16	73.36	72.21	69.16	..
Chile	..	2.31	2.32	2.79	4.32	9.04	9.53	9.26	..
Czech Republic	..	19.04	18.54	19.82	17.44	11.06	10.78	9.74	..
Denmark	2.06	3.91	4.06	3.56	2.95	3.18	2.91	2.54	..
Estonia	..	..	..	..	2.78	0.75	0.91	0.58	..
Finland	2.53	5.46	7.57	7.22	10.48	12.20	13.24	11.03	..
France	27.08	55.69	55.75	54.13	45.53	50.19	47.11	39.10	..
Germany	46.56	93.46	105.02	101.22	88.59	76.00	79.07	69.98	..
Greece	0.63	2.65	3.47	4.36	4.56	5.11	5.08	4.33	..
Hungary	..	6.72	7.41	9.86	7.77	4.85	5.10	4.33	..
Iceland	0.07	0.21	0.28	0.36	0.48	0.84	1.53	1.54	..
Ireland	0.75	1.99	1.87	2.34	2.32	3.02	2.79	2.29	..
Israel	..	1.28	1.37	1.87	2.17	3.17	2.29	2.35	..
Italy	17.41	42.87	47.33	44.53	44.19	46.01	43.61	37.10	..
Japan	35.85	120.93	140.54	118.74	136.44	140.31	122.77	121.35	..
Korea	..	5.97	7.55	13.37	25.99	62.98	76.65	76.31	..
Luxembourg	1.26	1.82	2.09	1.68	1.35	0.73	0.75	0.63	..
Mexico	..	14.12	16.46	27.21	35.42	37.65	37.20	33.74	..
Netherlands	5.46	15.51	20.94	25.25	20.92	24.16	28.04	25.93	..
New Zealand	1.21	1.80	2.21	2.62	4.38	5.61	4.53	4.61	..
Norway	3.16	6.16	6.95	8.00	7.87	9.02	9.13	7.77	..
Poland	14.26	26.49	29.46	36.75	27.15	21.45	20.03	18.39	..
Portugal	1.07	2.34	2.64	3.77	6.65	8.40	7.45	6.66	..
Slovak Republic	..	5.51	6.13	6.59	7.64	4.93	4.90	4.29	..
Slovenia	..	..	..	..	1.54	1.66	1.73	1.44	..
Spain	4.98	17.51	20.62	23.46	24.94	33.78	33.35	30.27	..
Sweden	9.41	14.11	15.36	13.42	13.71	15.23	13.77	12.34	..
Switzerland	2.60	4.37	4.69	4.46	3.84	4.40	4.62	4.29	..
Turkey	0.97	3.10	4.28	7.38	13.58	22.99	22.80	24.82	..
United Kingdom	42.36	59.86	64.06	45.95	42.29	44.84	38.53	33.62	..
United States	316.51	439.21	478.67	485.28	397.90	480.46	431.98	388.77	..
<b>OECD TOTAL*</b>	..	<b>1 054.56</b>	<b>1 170.70</b>	<b>1 177.69</b>	<b>1 109.65</b>	<b>1 272.64</b>	<b>1 213.57</b>	<b>1 114.19</b>	..
<b>OECD AMERICAS</b>	..	499.00	549.78	576.49	498.80	600.51	550.92	500.93	..
<b>OECD ASIA OCEANIA</b>	..	147.01	169.47	157.06	192.14	240.28	237.27	235.07	..
<b>OECD EUROPE*</b>	..	408.55	451.45	444.15	418.71	431.86	425.38	378.19	..
<b>IEA</b>	..	1 036.65	1 150.27	1 145.46	1 062.94	1 219.54	1 160.38	1 065.28	..

\* Excludes Estonia and Slovenia prior to 1990.

Includes non-energy use for industry/transformation/energy.

2010 data for consumption will be released in the 2012 edition.

For the United States, fuels used by autoproducers of electricity and heat have been included in final consumption for some years.



**Consumption of oil in transport (Mtoe)***Consommation de pétrole dans les transports (Mtep)**Ölverbrauch im Verkehrssektor (Mtoe)**Consumo di petrolio nel settore dei trasporti (Mtep)**運輸部門の石油消費量(石油換算百万トン)**Consumo de petróleo en el transporte (Mtep)**Потребление нефти и нефтепродуктов в транспорте (Мтнэ)*

	1960	1971	1973	1980	1990	2000	2008	2009	2010e
Australia	5.58	11.19	12.85	16.74	20.87	25.06	27.89	27.61	..
Austria	1.20	3.20	3.85	4.03	4.59	6.08	7.23	7.06	..
Belgium	1.71	3.95	4.34	5.42	6.75	8.10	8.94	8.72	..
Canada	16.42	28.42	33.19	42.49	40.22	47.06	52.66	51.53	..
Chile	..	1.83	1.69	2.02	3.02	5.64	6.79	6.84	..
Czech Republic	..	1.82	2.12	2.19	2.52	4.14	5.96	5.91	..
Denmark	1.00	2.51	2.69	3.02	3.46	4.03	4.64	4.39	..
Estonia	..	..	..	..	0.80	0.55	0.78	0.71	..
Finland	0.71	2.09	2.39	2.78	3.91	4.01	4.28	4.08	..
France	9.04	20.23	24.52	30.10	38.13	44.57	41.32	41.00	..
Germany	10.99	31.08	33.97	43.41	53.97	58.86	49.95	49.94	..
Greece	0.67	1.60	2.05	3.18	5.15	6.42	7.47	8.28	..
Hungary	..	1.58	1.84	2.66	2.83	2.95	4.32	4.29	..
Iceland	0.09	0.10	0.13	0.16	0.21	0.21	0.31	0.29	..
Ireland	0.41	1.00	1.17	1.58	1.68	3.46	4.49	4.07	..
Israel	..	1.06	1.15	1.39	2.21	3.37	5.63	5.74	..
Italy	5.35	15.95	18.37	23.68	32.18	39.11	38.68	36.60	..
Japan	7.61	34.27	39.79	52.92	71.23	87.11	76.99	75.20	..
Korea	..	2.09	2.48	4.74	14.49	26.57	28.36	28.60	..
Luxembourg	0.10	0.18	0.23	0.43	0.88	1.60	2.20	2.01	..
Mexico	..	10.24	12.38	22.76	28.46	36.06	51.71	50.37	..
Netherlands	2.37	5.73	6.46	7.60	8.85	10.90	11.77	11.05	..
New Zealand	0.96	1.71	1.94	2.28	2.89	4.06	4.65	4.56	..
Norway	1.10	2.26	2.25	2.83	3.35	4.00	4.55	4.45	..
Poland	1.21	4.00	5.01	6.96	6.52	9.30	14.76	14.93	..
Portugal	0.51	1.30	1.60	2.30	3.28	6.00	6.37	6.26	..
Slovak Republic	..	1.41	1.62	1.21	1.35	1.35	1.92	1.67	..
Slovenia	..	..	..	..	0.88	1.19	1.98	1.69	..
Spain	3.44	8.32	10.71	14.90	21.23	30.08	36.08	33.26	..
Sweden	2.53	4.77	5.17	5.73	6.78	7.29	7.49	7.12	..
Switzerland	1.33	3.17	3.42	3.56	4.97	5.64	5.86	5.79	..
Turkey	0.75	2.89	3.85	5.29	9.31	11.93	15.36	15.32	..
United Kingdom	12.81	25.14	27.84	30.46	39.08	41.43	41.90	40.13	..
United States	228.15	359.42	400.90	414.29	476.68	574.32	565.30	540.50	..
<b>OECD TOTAL*</b>	..	<b>594.51</b>	<b>671.96</b>	<b>763.11</b>	<b>922.72</b>	<b>1 122.48</b>	<b>1 148.58</b>	<b>1 109.94</b>	..
<b>OECD AMERICAS</b>	..	399.91	448.16	481.57	548.39	663.08	676.45	649.23	..
<b>OECD ASIA OCEANIA</b>	..	50.31	58.22	78.07	111.70	146.18	143.52	141.71	..
<b>OECD EUROPE*</b>	..	144.28	165.58	203.47	262.64	313.22	328.61	319.00	..
<b>IEA</b>	..	581.27	656.61	736.78	887.13	1 075.45	1 081.38	1 044.32	..

\* Excludes Estonia and Slovenia prior to 1990.

Includes non-energy use in transport.

2010 data for consumption will be released in the 2012 edition.

**Consumption of electricity in transport (Mtoe)***Consommation d'électricité dans les transports (Mtep)**Stromverbrauch im Verkehrssektor (Mtoe)**Consumo di energia elettrica nel settore dei trasporti (Mtep)**運輸部門の電力消費量(石油換算百万トン)**Consumo de electricidad en el transporte (Mtep)**Потребление электроэнергии в транспорте (Мтнэ)*

	1960	1971	1973	1980	1990	2000	2008	2009	2010e
Australia	0.06	0.06	0.06	0.08	0.16	0.20	0.24	0.25	..
Austria	0.08	0.14	0.15	0.20	0.24	0.30	0.30	0.29	..
Belgium	0.05	0.07	0.07	0.08	0.11	0.12	0.15	0.15	..
Canada	0.05	0.17	0.28	0.20	0.28	0.39	0.33	0.31	..
Chile	..	0.02	0.02	0.02	0.02	0.02	0.04	0.04	..
Czech Republic	..	0.15	0.16	0.20	0.27	0.20	0.18	0.18	..
Denmark	0.01	0.01	0.01	0.01	0.02	0.03	0.03	0.03	..
Estonia	..	..	..	..	0.01	0.01	0.01	0.01	..
Finland	0.00	0.00	0.01	0.02	0.04	0.05	0.06	0.06	..
France	0.30	0.50	0.55	0.59	0.76	1.00	1.14	1.08	..
Germany	0.33	0.78	0.85	1.03	1.18	1.37	1.42	1.37	..
Greece	0.00	0.00	0.00	0.01	0.01	0.02	0.02	0.02	..
Hungary	..	0.06	0.07	0.09	0.10	0.09	0.10	0.10	..
Iceland	-	-	-	-	-	-	-	-	..
Ireland	-	-	-	-	0.00	0.00	0.00	0.00	..
Israel	..	-	-	-	-	-	-	-	..
Italy	0.28	0.32	0.33	0.41	0.58	0.73	0.93	0.91	..
Japan	0.43	1.00	1.14	1.31	1.45	1.60	1.62	1.67	..
Korea	..	-	0.01	0.03	0.09	0.18	0.19	0.19	..
Luxembourg	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	..
Mexico	..	0.02	0.03	0.04	0.07	0.09	0.10	0.10	..
Netherlands	0.06	0.08	0.08	0.08	0.11	0.14	0.14	0.14	..
New Zealand	-	0.00	0.00	0.00	0.01	0.01	0.01	0.01	..
Norway	0.03	0.04	0.04	0.06	0.06	0.05	0.06	0.06	..
Poland	0.06	0.26	0.30	0.41	0.47	0.40	0.31	0.28	..
Portugal	0.01	0.02	0.02	0.02	0.03	0.03	0.04	0.04	..
Slovak Republic	..	0.05	0.05	0.08	0.10	0.08	0.05	0.04	..
Slovenia	..	..	..	..	0.02	0.02	0.02	0.01	..
Spain	0.06	0.11	0.12	0.16	0.32	0.36	0.28	0.27	..
Sweden	0.14	0.17	0.18	0.20	0.21	0.27	0.20	0.21	..
Switzerland	0.12	0.17	0.17	0.18	0.22	0.23	0.27	0.26	..
Turkey	0.00	0.01	0.01	0.01	0.03	0.07	0.08	0.06	..
United Kingdom	0.19	0.24	0.22	0.26	0.45	0.74	0.78	0.75	..
United States	0.47	0.39	0.37	0.27	0.35	0.38	0.66	0.67	..
<b>OECD TOTAL*</b>	..	<b>4.85</b>	<b>5.30</b>	<b>6.07</b>	<b>7.76</b>	<b>9.19</b>	<b>9.78</b>	<b>9.56</b>	..
<b>OECD AMERICAS</b>	..	0.60	0.69	0.52	0.72	0.88	1.13	1.12	..
<b>OECD ASIA OCEANIA</b>	..	1.06	1.21	1.42	1.70	1.98	2.06	2.11	..
<b>OECD EUROPE*</b>	..	3.19	3.40	4.13	5.34	6.32	6.59	6.33	..
<b>IEA</b>	..	4.81	5.26	6.01	7.64	9.04	9.63	9.41	..

\* Excludes Estonia and Slovenia prior to 1990.

2010 data for consumption will be released in the 2012 edition.

**Total consumption of energy in transport (Mtoe)***Consommation totale d'énergie dans les transports (Mtep)**Gesamtenergieverbrauch im Verkehrssektor (Mtoe)**Consumo totale di energia nel settore dei trasporti (Mtep)**運輸部門のエネルギー総消費量（石油換算百万トン）**Consumo total de energía en el transporte (Mtep)**Общее потребление топлива и энергии в транспорте (Мтнэ)*

	1960	1971	1973	1980	1990	2000	2008	2009	2010e
Australia	7.00	11.32	12.93	16.82	21.11	25.66	28.78	28.60	..
Austria	1.83	3.52	4.13	4.28	4.93	6.62	8.17	8.02	..
Belgium	2.27	4.03	4.42	5.50	6.85	8.22	9.19	9.16	..
Canada	17.05	28.73	33.60	44.32	43.40	52.34	56.89	55.35	..
Chile	..	2.01	1.84	2.09	3.05	5.67	6.84	6.89	..
Czech Republic	..	2.11	2.40	2.48	2.79	4.44	6.33	6.35	..
Denmark	1.10	2.52	2.70	3.03	3.48	4.06	4.67	4.44	..
Estonia	..	..	..	..	0.82	0.56	0.79	0.71	..
Finland	0.91	2.11	2.41	2.80	3.95	4.07	4.43	4.29	..
France	11.65	20.87	25.15	30.72	38.90	45.92	44.82	44.65	..
Germany	16.71	33.99	36.54	44.75	55.16	60.46	53.98	54.22	..
Greece	0.75	1.63	2.07	3.19	5.16	6.44	7.58	8.39	..
Hungary	..	2.23	2.28	2.88	2.93	3.04	4.59	4.56	..
Iceland	0.09	0.10	0.13	0.16	0.21	0.21	0.31	0.29	..
Ireland	0.45	1.00	1.17	1.58	1.68	3.46	4.55	4.14	..
Israel	..	1.06	1.15	1.39	2.21	3.37	5.63	5.74	..
Italy	6.41	16.55	18.96	24.35	32.96	40.17	40.92	39.29	..
Japan	11.87	35.87	41.13	54.22	72.68	88.71	78.61	76.87	..
Korea	..	2.12	2.50	4.78	14.57	26.75	29.41	29.90	..
Luxembourg	0.13	0.18	0.23	0.44	0.88	1.61	2.25	2.06	..
Mexico	..	10.26	12.41	22.80	28.53	36.16	51.82	50.47	..
Netherlands	2.47	5.82	6.53	7.68	8.95	11.04	12.19	11.57	..
New Zealand	1.07	1.72	1.94	2.29	2.96	4.07	4.67	4.57	..
Norway	1.20	2.31	2.30	2.89	3.41	4.06	4.74	4.65	..
Poland	6.99	8.33	8.97	9.17	7.17	9.76	15.84	16.15	..
Portugal	0.59	1.35	1.64	2.32	3.31	6.03	6.56	6.53	..
Slovak Republic	..	1.45	1.68	1.50	1.45	1.43	2.64	2.29	..
Slovenia	..	..	..	..	0.90	1.21	2.02	1.73	..
Spain	5.02	8.52	10.85	15.07	21.54	30.52	37.05	34.66	..
Sweden	2.76	4.94	5.35	5.92	6.99	7.57	8.08	7.73	..
Switzerland	1.46	3.34	3.59	3.74	5.19	5.87	6.15	6.07	..
Turkey	1.58	3.47	4.38	5.49	9.35	12.04	15.64	15.57	..
United Kingdom	18.45	25.51	28.12	30.76	39.53	42.18	43.47	41.86	..
United States	229.94	377.15	418.11	429.31	492.45	593.07	601.23	577.92	..
<b>OECD TOTAL*</b>	..	<b>626.14</b>	<b>701.60</b>	<b>788.73</b>	<b>949.46</b>	<b>1 156.78</b>	<b>1 210.81</b>	<b>1 175.72</b>	..
<b>OECD AMERICAS</b>	..	418.15	465.95	498.52	567.42	687.23	716.78	690.64	..
<b>OECD ASIA OCEANIA</b>	..	52.09	59.66	79.51	113.53	148.56	147.09	145.68	..
<b>OECD EUROPE*</b>	..	155.89	176.00	210.71	268.51	320.99	346.94	339.39	..
<b>IEA</b>	..	612.70	686.08	762.29	913.74	1 109.60	1 143.41	1 109.88	..

\* Excludes Estonia and Slovenia prior to 1990.

Includes non-energy use in transport.

2010 data for consumption will be released in the 2012 edition.

**Other consumption of coal and peat (Mtoe)***Consommation de charbon et de tourbe des autres secteurs (Mtep)**Kohle- und Torfverbrauch in restlichen Sektoren (Mtoe)**Consumo di carbone e torba negli altri settori (Mtep)**他の部門の石炭及び泥炭消費量(石油換算百万トン)**Consumo de carbón y turba de otros sectores (Mtep)**Потребление угля и торфа другими секторами (Мтнэ)*

	1960	1971	1973	1980	1990	2000	2008	2009	2010e
Australia	0.13	0.30	0.28	0.41	0.21	0.07	0.06	0.05	..
Austria	1.48	1.49	1.47	1.04	0.70	0.24	0.09	0.09	..
Belgium	4.38	2.53	2.15	1.03	0.52	0.20	0.15	0.24	..
Canada	3.79	0.66	0.40	0.10	0.05	0.04	0.03	0.03	..
Chile	..	0.12	0.11	0.08	0.11	0.05	0.04	0.03	..
Czech Republic	..	9.98	8.70	7.84	6.74	1.34	0.56	0.55	..
Denmark	1.78	0.30	0.23	0.19	0.11	0.04	0.05	0.04	..
Estonia	..	..	..	..	0.33	0.04	0.01	0.01	..
Finland	0.22	0.17	0.11	0.11	0.02	0.03	0.03	0.04	..
France	13.32	7.78	6.62	3.19	1.92	0.79	0.50	0.44	..
Germany	25.21	27.34	24.46	22.47	18.15	1.29	1.25	1.20	..
Greece	0.02	0.04	0.04	0.04	0.03	0.02	0.01	0.00	..
Hungary	..	2.37	2.13	2.12	1.88	0.24	0.17	0.14	..
Iceland	0.01	0.00	0.00	-	-	-	-	-	..
Ireland	1.13	1.20	0.96	1.24	1.28	0.52	0.45	0.44	..
Israel	..	-	-	-	-	-	-	-	..
Italy	2.35	1.39	0.87	0.83	0.28	0.24	0.17	0.11	..
Japan	5.52	5.67	5.23	3.83	0.96	0.61	0.53	0.51	..
Korea	..	4.77	6.08	8.39	8.66	0.57	1.05	0.89	..
Luxembourg	0.18	0.06	0.03	0.02	0.01	0.00	0.00	0.00	..
Mexico	..	-	-	-	-	-	-	-	..
Netherlands	3.95	0.55	0.32	0.08	0.05	0.03	0.02	0.01	..
New Zealand	0.36	0.21	0.19	0.26	0.18	0.11	0.15	0.08	..
Norway	0.23	0.26	0.06	0.03	0.01	0.00	0.00	0.00	..
Poland	12.51	14.50	14.56	19.31	10.42	5.70	7.50	7.53	..
Portugal	0.26	0.12	0.08	0.05	0.05	0.04	-	-	..
Slovak Republic	..	1.17	1.19	2.30	2.18	0.26	0.29	0.54	..
Slovenia	..	..	..	..	0.11	0.00	-	-	..
Spain	1.92	1.30	0.55	0.59	0.58	0.15	0.27	0.32	..
Sweden	0.80	0.26	0.14	0.09	0.07	0.03	0.02	0.01	..
Switzerland	1.02	0.38	0.30	0.10	0.04	0.03	0.01	0.01	..
Turkey	0.74	1.12	1.30	1.85	3.01	2.02	6.66	6.87	..
United Kingdom	38.67	23.34	17.63	8.14	4.39	1.61	0.65	0.65	..
United States	25.84	17.13	13.84	7.92	9.64	2.22	1.73	1.59	..
<b>OECD TOTAL*</b>	..	<b>126.49</b>	<b>110.07</b>	<b>93.68</b>	<b>72.73</b>	<b>18.51</b>	<b>22.44</b>	<b>22.43</b>	..
<b>OECD AMERICAS</b>	..	17.90	14.35	8.10	9.80	2.31	1.80	1.65	..
<b>OECD ASIA OCEANIA</b>	..	10.94	11.79	12.90	10.02	1.36	1.79	1.54	..
<b>OECD EUROPE*</b>	..	97.64	83.93	72.69	52.92	14.85	18.85	19.24	..
<b>IEA</b>	..	126.37	109.95	93.61	72.18	18.42	22.39	22.39	..

\* Excludes Estonia and Slovenia prior to 1990.

Includes residential, commerce/public services, agriculture/forestry and other non-specified. Also includes non-energy use for these sectors.

2010 data for consumption will be released in the 2012 edition.

For the United States, coal used by autoproducers of electricity and heat has been included in final consumption prior to 1992.

**Other consumption of oil (Mtoe)***Consommation de pétrole des autres secteurs (Mtep)**Ölverbrauch in restlichen Sektoren (Mtoe)**Consumo di petrolio negli altri settori (Mtep)**他の部門の石油消費量(石油換算百万トン)**Consumo de petróleo de otros sectores (Mtep)**Потребление нефти и нефтепродуктов другими секторами (Мтнэ)*

	1960	1971	1973	1980	1990	2000	2008	2009	2010e
Australia	1.59	2.93	3.47	2.24	1.74	2.02	2.88	2.96	..
Austria	0.41	2.56	3.04	3.83	2.47	2.46	2.10	1.86	..
Belgium	1.93	6.80	8.04	6.99	5.21	5.28	5.10	4.22	..
Canada	12.65	23.22	21.61	17.22	11.44	13.23	15.83	14.91	..
Chile	..	0.79	0.94	0.75	0.95	1.42	1.37	1.43	..
Czech Republic	..	0.53	0.59	1.11	1.26	0.56	0.40	0.37	..
Denmark	1.59	7.06	7.24	5.78	2.22	1.53	1.08	1.06	..
Estonia	..	..	..	..	0.42	0.11	0.12	0.11	..
Finland	0.70	3.49	3.86	3.49	2.71	1.70	1.48	1.52	..
France	4.91	26.74	37.09	27.28	19.69	17.63	16.06	15.60	..
Germany	7.60	45.94	53.28	43.21	31.04	28.43	25.17	21.99	..
Greece	0.44	1.65	2.04	1.86	2.58	3.50	3.75	3.13	..
Hungary	..	1.70	2.41	3.10	2.20	0.73	0.38	0.35	..
Iceland	0.22	0.26	0.29	0.24	0.24	0.25	0.19	0.17	..
Ireland	0.20	0.54	0.78	0.73	1.22	1.76	2.05	1.93	..
Israel	..	0.56	0.63	0.61	1.11	2.41	2.06	2.02	..
Italy	3.91	20.06	22.17	18.27	12.77	9.71	7.47	7.15	..
Japan	2.27	28.73	36.07	36.64	43.20	47.60	36.18	33.63	..
Korea	..	0.49	1.02	3.92	11.57	17.81	9.27	9.29	..
Luxembourg	0.07	0.35	0.43	0.37	0.31	0.31	0.27	0.28	..
Mexico	..	3.98	4.47	7.82	8.78	11.53	10.95	10.70	..
Netherlands	1.92	6.76	6.93	3.02	1.33	0.95	1.32	1.20	..
New Zealand	0.42	0.54	0.57	0.51	0.53	0.61	0.63	0.57	..
Norway	1.03	1.90	2.07	1.71	1.24	1.07	0.96	1.08	..
Poland	0.23	0.74	1.03	1.43	1.43	4.35	3.43	3.18	..
Portugal	0.35	0.75	0.87	0.94	1.23	1.76	1.28	1.31	..
Slovak Republic	..	0.44	0.48	0.92	0.65	0.18	0.15	0.13	..
Slovenia	..	..	..	..	0.38	0.75	0.66	0.61	..
Spain	0.61	4.15	4.83	6.00	5.99	7.78	6.85	6.49	..
Sweden	4.64	10.86	11.08	8.36	3.27	2.27	0.67	0.84	..
Switzerland	1.05	5.63	6.38	5.77	5.37	4.28	3.96	3.81	..
Turkey	0.50	2.43	3.11	3.23	5.02	6.24	6.22	5.91	..
United Kingdom	5.23	11.29	12.49	10.30	6.94	5.26	4.23	4.05	..
United States	91.31	136.65	135.49	87.46	62.08	62.67	51.93	51.85	..
<b>OECD TOTAL*</b>	..	<b>360.52</b>	<b>394.79</b>	<b>315.13</b>	<b>258.57</b>	<b>268.16</b>	<b>226.43</b>	<b>215.70</b>	..
<b>OECD AMERICAS</b>	..	164.65	162.50	113.25	83.25	88.84	80.08	78.89	..
<b>OECD ASIA OCEANIA</b>	..	33.25	41.77	43.93	58.15	70.46	51.02	48.47	..
<b>OECD EUROPE*</b>	..	162.62	190.52	157.94	117.17	108.87	95.33	88.34	..
<b>IEA</b>	..	354.93	388.47	305.70	246.70	251.70	211.09	200.67	..

\* Excludes Estonia and Slovenia prior to 1990.

Includes residential, commerce/public services, agriculture/forestry and other non-specified. Also includes non-energy use for these sectors. 2010 data for consumption will be released in the 2012 edition.

**Other consumption of natural gas (Mtoe)***Consommation de gaz des autres secteurs (Mtep)**Gasverbrauch in restlichen Sektoren (Mtoe)**Consumo di gas negli altri settori (Mtep)**他の部門のガス消費量(石油換算百万トン)**Consumo de gas natural de otros sectores (Mtep)**Потребление газа другими секторами (Мтпэ)*

	1960	1971	1973	1980	1990	2000	2008	2009	2010e
Australia	-	0.34	0.62	1.29	2.62	3.63	3.86	4.02	..
Austria	0.01	0.03	0.14	0.69	0.96	1.70	1.77	1.58	..
Belgium	-	0.89	1.45	3.45	3.52	4.84	5.16	5.27	..
Canada	3.59	10.61	11.86	16.06	20.17	25.26	25.89	25.64	..
Chile	..	0.00	0.04	0.09	0.15	0.30	0.47	0.51	..
Czech Republic	..	0.30	0.35	0.90	1.83	3.28	3.53	3.41	..
Denmark	-	-	-	-	0.59	0.87	0.90	0.89	..
Estonia	..	..	..	..	0.07	0.06	0.09	0.09	..
Finland	-	-	-	0.04	0.04	0.06	0.07	0.08	..
France	0.07	2.77	4.61	9.83	12.83	17.47	21.99	23.39	..
Germany	-	3.00	6.07	13.91	19.76	33.70	39.58	40.23	..
Greece	-	-	-	-	-	0.01	0.34	0.40	..
Hungary	..	0.44	0.58	1.11	2.44	4.99	4.90	4.88	..
Iceland	-	-	-	-	-	-	-	-	..
Ireland	-	-	-	-	0.21	0.73	1.06	1.04	..
Israel	..	-	-	0.00	0.00	-	-	-	..
Italy	0.51	2.27	3.59	8.37	15.54	20.65	24.77	25.57	..
Japan	0.06	0.70	1.48	3.70	11.24	17.80	24.82	24.52	..
Korea	..	-	-	-	0.60	8.04	11.39	11.59	..
Luxembourg	-	-	0.04	0.11	0.14	0.30	0.36	0.39	..
Mexico	..	0.30	0.39	0.47	0.81	0.69	0.95	0.90	..
Netherlands	0.05	7.45	11.15	15.84	13.89	14.34	14.30	14.27	..
New Zealand	0.04	0.04	0.08	0.08	0.19	0.47	0.25	0.32	..
Norway	-	-	-	-	-	0.00	0.04	0.04	..
Poland	0.05	0.29	0.42	1.56	3.26	3.98	4.87	4.94	..
Portugal	-	-	-	-	-	0.13	0.42	0.47	..
Slovak Republic	..	0.49	0.58	0.82	2.58	3.05	2.12	1.81	..
Slovenia	..	..	..	..	0.15	0.08	0.11	0.12	..
Spain	-	0.02	0.05	0.12	0.55	2.66	5.26	4.59	..
Sweden	-	-	-	-	0.08	0.13	0.16	0.14	..
Switzerland	-	0.01	0.10	0.35	0.91	1.45	1.67	1.64	..
Turkey	-	-	-	-	0.04	3.11	9.59	6.49	..
United Kingdom	-	3.81	8.96	23.75	29.82	37.16	35.22	32.33	..
United States	96.79	174.71	172.92	171.13	163.81	189.40	186.56	182.74	..
<b>OECD TOTAL*</b>	..	<b>208.47</b>	<b>225.47</b>	<b>273.67</b>	<b>308.78</b>	<b>400.35</b>	<b>432.48</b>	<b>424.30</b>	..
<b>OECD AMERICAS</b>	..	185.62	185.20	187.75	184.94	215.65	213.87	209.78	..
<b>OECD ASIA OCEANIA</b>	..	1.09	2.18	5.08	14.65	29.94	40.32	40.44	..
<b>OECD EUROPE*</b>	..	21.76	38.08	80.84	109.18	154.76	178.28	174.07	..
<b>IEA</b>	..	208.16	225.04	273.11	307.60	399.23	430.85	422.68	..

\* Excludes Estonia and Slovenia prior to 1990.

Includes residential, commerce/public services, agriculture/forestry and other non-specified.

2010 data for consumption will be released in the 2012 edition.

**Total other consumption of energy (Mtoe)**  
*Consommation totale d'énergie des autres secteurs (Mtep)*  
*Gesamtenergieverbrauch in restlichen Sektoren (Mtoe)*  
*Consumo totale di energia negli altri settori (Mtep)*  
 他の部門のエネルギー総消費量(石油換算百万トン)  
*Consumo total de energía de otros sectores (Mtep)*  
*Общее потребление топлива и энергии другими секторами (Мтпнэ)*

	1960	1971	1973	1980	1990	2000	2008	2009	2010e
Australia	2.30	7.72	8.84	9.51	12.29	15.71	18.24	18.66	..
Austria	2.99	5.50	6.29	8.02	8.14	9.36	9.82	9.33	..
Belgium	6.54	10.97	12.58	13.09	11.72	13.65	14.38	13.80	..
Canada	24.78	44.51	45.32	49.53	54.39	63.92	71.36	69.66	..
Chile	..	2.23	2.36	2.42	3.54	5.49	6.10	6.25	..
Czech Republic	..	11.45	10.40	12.36	14.07	10.20	9.92	9.66	..
Denmark	3.65	8.24	8.55	8.15	6.74	6.98	7.29	7.25	..
Estonia	..	..	..	..	2.40	1.27	1.48	1.49	..
Finland	5.88	8.67	9.20	9.33	7.81	7.70	8.52	9.06	..
France	19.63	49.04	61.32	56.43	58.58	66.87	73.94	76.51	..
Germany	35.19	90.77	100.16	102.70	97.24	95.62	102.15	99.71	..
Greece	0.54	2.48	2.99	3.15	4.77	6.90	8.52	7.87	..
Hungary	..	5.85	6.83	8.82	10.02	9.30	8.88	8.95	..
Iceland	0.35	0.53	0.61	0.76	0.95	1.06	0.97	0.99	..
Ireland	1.43	2.03	2.08	2.43	3.39	4.10	5.21	4.89	..
Israel	..	0.95	1.09	1.26	2.58	5.44	6.16	6.07	..
Italy	7.73	26.87	30.26	33.34	37.78	42.66	47.80	49.19	..
Japan	9.27	42.46	52.31	58.92	90.96	116.09	117.89	115.36	..
Korea	..	5.51	7.44	13.14	24.35	37.37	40.82	41.60	..
Luxembourg	0.25	0.45	0.55	0.60	0.57	0.84	0.91	0.94	..
Mexico	..	9.96	10.87	15.91	20.16	24.36	25.91	25.88	..
Netherlands	6.41	16.25	20.18	21.38	19.27	21.50	22.64	22.60	..
New Zealand	1.11	1.59	1.73	1.99	2.57	3.13	3.35	3.31	..
Norway	2.04	3.95	4.11	5.09	6.15	6.72	7.08	7.43	..
Poland	15.35	21.09	22.13	32.09	27.11	26.97	29.68	29.72	..
Portugal	0.99	1.35	1.46	1.83	3.39	5.00	5.52	5.69	..
Slovak Republic	..	2.83	3.04	4.93	6.67	5.06	4.26	4.25	..
Slovenia	..	..	..	..	1.25	1.77	1.75	1.70	..
Spain	2.82	6.78	7.12	9.62	14.26	21.17	29.00	27.36	..
Sweden	6.46	13.49	14.11	15.26	11.42	12.50	11.49	11.91	..
Switzerland	3.05	7.46	8.39	8.42	9.63	9.31	9.86	9.71	..
Turkey	7.18	9.60	11.20	13.45	17.14	22.83	35.93	32.77	..
United Kingdom	48.48	49.06	51.05	54.57	55.98	63.49	60.33	56.64	..
United States	260.44	412.24	418.58	396.71	403.16	472.71	505.17	495.83	..
<b>OECD TOTAL*</b>	..	<b>881.89</b>	<b>943.15</b>	<b>975.19</b>	<b>1 050.46</b>	<b>1 217.03</b>	<b>1 312.35</b>	<b>1 292.03</b>	..
<b>OECD AMERICAS</b>	..	468.93	477.13	464.57	481.26	566.48	608.54	597.62	..
<b>OECD ASIA OCEANIA</b>	..	58.24	71.40	84.82	132.75	177.74	186.46	185.00	..
<b>OECD EUROPE*</b>	..	354.73	394.62	425.80	436.46	472.81	517.35	509.40	..
<b>IEA</b>	..	868.22	928.22	954.84	1 019.57	1 177.64	1 269.97	1 249.66	..

\* Excludes Estonia and Slovenia prior to 1990.

Includes residential, commerce/public services, agriculture/forestry and other non-specified. Also includes non-energy use for these sectors.

2010 data for consumption will be released in the 2012 edition.

For the United States, coal used by autoproducers of electricity and heat has been included in final consumption prior to 1992.

**GDP using exchange rates (billion 2000 USD)***PIB sur la base des taux de change (milliards USD 2000)**BIP auf Wechselkursbasis (Milliarden USD 2000)**PIL utilizzando i tassi di cambio (miliardi di USD 2000)*

為替換算による国内総生産（十億米ドル、2000年価格）

*PIB basado en los tipos de cambio (millardos USD 2000)**ВВП по валютному курсу (млрд.долл.США в ценах 2000 г.)*

	1960	1971	1973	1980	1990	2000	2008	2009	2010e
Australia	97.34 e	168.69	180.17	216.86	289.29	410.99	528.71	535.23	549.03
Austria	53.20 e	88.59	98.69	120.30	149.00	191.20	227.19	218.36	222.64
Belgium	68.76 e	113.85	127.17	152.86	186.52	232.37	268.21	260.83	266.38
Canada	168.92 e	288.32	325.20	411.96	543.64	724.91	868.21	846.83	872.84
Chile	..	23.04	21.73	28.02	40.56	75.39	105.05	103.28	108.65
Czech Republic	27.82 e	38.33 e	41.03 e	48.67 e	55.30	56.72	79.15	75.87	77.62
Denmark	50.44 e	83.22	89.96	100.88	123.89	160.08	176.95	167.73	171.23
Estonia	..	..	..	..	5.85	5.68	9.34	8.04	8.29
Finland	31.72 e	51.90	59.82	73.46	99.30	121.72	153.78	141.16	145.57
France	342.84 e	630.81	703.39	861.11	1 091.83	1 327.96	1 512.55	1 472.79	1 495.97
Germany	597.23 e	950.51	1 038.75	1 225.93	1 543.20	1 900.22	2 097.65	1 998.65	2 071.24
Greece	26.60 e	64.78	77.13	94.16	100.82	127.09	171.62	168.11	160.60
Hungary	13.39 e	26.08 e	31.11 e	39.85 e	44.62 e	47.38	60.45	56.40	57.07
Iceland	1.78 e	3.16	3.58	5.16	6.76	8.70	12.05	11.22	10.83
Ireland	14.19 e	22.14	24.69	33.99	48.51	96.76	135.38	125.11	123.81
Israel	..	32.35	38.31	48.65	70.41	124.68	160.88	162.17	169.64
Italy	292.12 e	518.20	575.62	739.13	937.60	1 097.34	1 171.82	1 110.68	1 125.08
Japan	630.91 e	1 785.00	2 090.63	2 638.16	4 150.28	4 667.47	5 140.40	4 872.22	5 064.07
Korea	21.59 e	52.45	64.13	112.04	283.33	533.38	751.36	752.83	799.22
Luxembourg	4.19 e	6.08	7.02	7.65	12.40	20.27	27.46	26.46	27.39
Mexico	104.12 e	208.00	244.63	378.36	452.56	636.73	770.64	724.35	764.19
Netherlands	101.07 e	173.57	188.21	226.17	281.96	385.08	450.10	432.48	440.12
New Zealand	19.08 e	28.34	32.11	32.49	39.71	53.39	66.96	67.48	69.17
Norway	38.31 e	60.97	67.05	91.23	116.97	168.29	198.80	195.96	196.84
Poland	54.73 e	89.19 e	102.82 e	118.99 e	118.17	171.28	237.74	241.67	250.89
Portugal	21.57 e	42.62	51.19	63.51	87.47	117.01	126.51	123.35	124.99
Slovak Republic	9.33 e	12.86 e	13.76 e	16.33 e	18.91 e	20.40	32.90	31.32	32.58
Slovenia	..	..	..	..	16.55	19.89	27.97	25.70	26.00
Spain	113.17 e	241.85	281.94	329.98	440.64	580.67	740.95	713.36	712.34
Sweden	84.45 e	134.12	142.69	161.52	201.04	247.26	302.39	286.27	302.11
Switzerland	100.86 e	165.91	176.44	180.44	224.77	249.91	291.88	286.30	293.60
Turkey	44.49 e	79.31	87.98	111.91	185.95	266.56	375.06	356.96	388.89
United Kingdom	547.56 e	739.09	820.00	876.92	1 150.27	1 477.51	1 763.05	1 677.10	1 698.08
United States	2 564.68 e	3 867.09	4 321.89	5 142.14	7 063.99	9 898.80	11 668.45	11 357.07	11 681.22
<b>OECD TOTAL*</b>	..	<b>10 790.41</b>	<b>12 128.82</b>	<b>14 688.83</b>	<b>20 182.03</b>	<b>26 223.09</b>	<b>30 711.59</b>	<b>29 633.35</b>	<b>30 508.19</b>
<b>OECD AMERICAS</b>	..	4 386.46	4 913.44	5 960.49	8 100.75	11 335.84	13 412.36	13 031.54	13 426.90
<b>OECD ASIA OCEANIA</b>	..	2 066.83	2 405.34	3 048.20	4 833.01	5 789.91	6 648.31	6 389.93	6 651.12
<b>OECD EUROPE*</b>	2 639.80	4 337.12	4 810.04	5 680.13	7 248.27	9 097.34	10 650.93	10 211.88	10 430.17
<b>IEA</b>	6 140.53	10 523.86	11 820.58	14 228.63	19 589.35	25 352.02	29 625.65	28 598.59	29 420.58

\* Excludes Estonia and Slovenia prior to 1990.



**GDP using purchasing power parities (billion 2000 USD)***PIB sur la base des parités de pouvoir d'achat (milliards USD 2000)**BIP nach Kaufkraftparitätenbasis (Milliarden USD 2000)**PIL utilizzando i PPA (miliardi di USD 2000)**購買力平価換算による国内総生産 (十億米ドル, 2000年価格)**PIB basado en la paridad de poder adquisitivo (millardos USD 2000)**ВВП по ППС (млрд.долл.США в ценах 2000 г.)*

	1960	1971	1973	1980	1990	2000	2008	2009	2010e
Australia	128.00 e	221.83	236.92	285.17	380.40	540.44	695.23	703.82	721.95
Austria	64.13 e	106.80	118.97	145.02	179.62	230.49	273.87	263.22	268.39
Belgium	83.75 e	138.67	154.90	186.19	227.19	283.04	326.69	317.71	324.46
Canada	203.68 e	347.65	392.11	496.73	655.51	874.08	1 046.86	1 021.09	1 052.45
Chile	..	43.74	41.24	53.19	76.99	143.10	199.40	196.05	206.24
Czech Republic	75.54 e	104.07 e	111.42 e	132.15 e	150.15	154.01	214.92	206.01	210.78
Denmark	48.47 e	79.98	86.46	96.95	119.07	153.85	170.07	161.21	164.57
Estonia	..	..	..	..	13.93	13.53	22.24	19.15	19.75
Finland	34.60 e	56.61	65.25	80.13	108.32	132.77	167.74	153.98	158.79
France	396.20 e	729.00	812.88	995.15	1 261.77	1 534.67	1 747.98	1 702.03	1 728.82
Germany	670.29 e	1 066.80	1 165.83	1 375.91	1 732.00	2 132.70	2 354.29	2 243.18	2 324.64
Greece	42.08 e	102.45	121.99	148.91	159.46	200.99	271.42	265.88	253.99
Hungary	35.03 e	68.21 e	81.35 e	104.20 e	116.69 e	123.90	158.09	147.51	149.24
Iceland	1.66 e	2.94	3.34	4.81	6.31	8.11	11.24	10.46	10.10
Ireland	16.01 e	24.98	27.86	38.35	54.74	109.16	152.74	141.16	139.69
Israel	..	38.34	45.40	57.66	83.44	147.77	190.67	192.20	201.05
Italy	387.97 e	688.23	764.48	981.64	1 245.23	1 457.40	1 556.31	1 475.11	1 494.23
Japan	439.35 e	1 243.02	1 455.85	1 837.14	2 890.12	3 250.28	3 579.62	3 392.86	3 526.46
Korea	32.72 e	79.50	97.20	169.80	429.42	808.40	1 138.77	1 140.99	1 211.30
Luxembourg	4.84 e	7.02	8.11	8.83	14.32	23.41	31.70	30.55	31.63
Mexico	161.41 e	322.46	379.25	586.57	701.59	987.11	1 194.71	1 122.95	1 184.71
Netherlands	122.88 e	211.03	228.83	274.99	342.82	468.20	547.26	525.84	535.13
New Zealand	29.08 e	43.20	48.95	49.53	60.54	81.38	102.07	102.87	105.44
Norway	36.93 e	58.78	64.65	87.95	112.76	162.24	191.66	188.92	189.76
Poland	129.17 e	210.51 e	242.67 e	280.84 e	278.91	404.25	561.13	570.39	592.16
Portugal	33.46 e	66.11	79.40	98.51	135.66	181.50	196.22	191.32	193.87
Slovak Republic	27.13 e	37.37 e	40.01 e	47.46 e	54.96 e	59.30	95.61	91.04	94.70
Slovenia	..	..	..	..	28.91	34.75	48.87	44.90	45.43
Spain	167.30 e	357.54	416.80	487.83	651.42	858.44	1 095.37	1 054.60	1 053.08
Sweden	84.69 e	134.50	143.10	161.98	201.60	247.96	303.25	287.08	302.97
Switzerland	91.99 e	151.32	160.92	164.57	205.00	227.94	266.21	261.12	267.78
Turkey	98.35 e	175.31	194.47	247.37	411.06	589.24	829.09	789.08	859.66
United Kingdom	568.95 e	767.96	852.04	911.18	1 195.21	1 535.24	1 831.92	1 742.62	1 764.42
United States	2 564.68 e	3 867.09	4 321.89	5 142.14	7 063.99	9 898.80	11 668.45	11 357.07	11 681.22
<b>OECD TOTAL*</b>	<b>..</b>	<b>11 553.01</b>	<b>12 964.52</b>	<b>15 738.87</b>	<b>21 349.10</b>	<b>28 058.43</b>	<b>33 241.67</b>	<b>32 113.93</b>	<b>33 068.85</b>
<b>OECD AMERICAS</b>	<b>..</b>	<b>4 580.95</b>	<b>5 134.49</b>	<b>6 278.64</b>	<b>8 498.07</b>	<b>11 903.09</b>	<b>14 109.43</b>	<b>13 697.15</b>	<b>14 124.61</b>
<b>OECD ASIA OCEANIA</b>	<b>..</b>	<b>1 625.88</b>	<b>1 884.31</b>	<b>2 399.29</b>	<b>3 843.93</b>	<b>4 828.27</b>	<b>5 706.35</b>	<b>5 532.74</b>	<b>5 766.20</b>
<b>OECD EUROPE*</b>	<b>3 221.40</b>	<b>5 346.19</b>	<b>5 945.72</b>	<b>7 060.94</b>	<b>9 007.10</b>	<b>11 327.07</b>	<b>13 425.89</b>	<b>12 884.04</b>	<b>13 178.04</b>
<b>IEA</b>	<b>6 617.25</b>	<b>11 145.52</b>	<b>12 495.29</b>	<b>15 036.64</b>	<b>20 437.94</b>	<b>26 724.06</b>	<b>31 574.54</b>	<b>30 528.23</b>	<b>31 401.57</b>

\* Excludes Estonia and Slovenia prior to 1990.

**Population (millions)***Population (millions)**Bevölkerung (Millionen)**Popolazione (milioni)**人口 (100 万人)**Población (millones)**Численность населения (млн. человек)*

	1960	1971	1973	1980	1990	2000	2008	2009	2010e
Australia	10.40 e	13.20	13.61	14.81	17.17	19.27	21.64	22.10	22.17
Austria	7.05 e	7.50	7.59	7.55	7.68	8.01	8.34	8.36	8.39
Belgium	9.13 e	9.66	9.73	9.86	9.97	10.25	10.71	10.79	10.86
Canada	17.89 e	21.96	22.49	24.52	27.69	30.69	33.33	33.74	33.92
Chile	..	9.77	10.11	11.19	13.18	15.40	16.76	16.93	17.10
Czech Republic	9.58 e	9.83	9.92	10.33	10.36	10.27	10.43	10.51	10.48
Denmark	4.59 e	4.96	5.02	5.12	5.14	5.34	5.49	5.52	5.53
Estonia	..	..	..	..	1.59	1.37	1.34	1.34	1.34
Finland	4.43 e	4.61	4.67	4.78	4.99	5.18	5.31	5.34	5.36
France	46.71 e	52.41	53.30	55.11	58.17	60.73	64.14	64.49	64.67
Germany	71.22 e	78.35	78.96	78.30	79.36	82.19	82.12	81.88	81.75
Greece	8.47 e	8.98	9.08	9.81	10.34	10.92	11.24	11.28	11.28
Hungary	9.98 e	10.37	10.43	10.71	10.37	10.21	10.04	10.02	9.99
Iceland	0.18 e	0.21	0.21	0.23	0.26	0.28	0.32	0.32	0.32
Ireland	2.83 e	2.98	3.07	3.40	3.51	3.80	4.44	4.47	4.54
Israel	..	3.09	3.30	3.90	4.68	6.29	7.31	7.44	7.57
Italy	49.94 e	54.07	54.75	56.43	56.72	56.94	59.83	60.19	60.00
Japan	93.66 e	104.98	108.90	117.06	123.61	126.93	127.51	127.33	126.91
Korea	25.01 e	32.88	34.10	38.12	42.87	47.01	48.61	48.75	48.80
Luxembourg	0.31 e	0.34	0.35	0.36	0.38	0.44	0.49	0.50	0.51
Mexico	34.58 e	49.88	53.27	65.70	81.25	98.26	106.57	107.44	108.32
Netherlands	11.48 e	13.19	13.44	14.15	14.95	15.92	16.44	16.53	16.65
New Zealand	2.38 e	2.86	2.97	3.14	3.37	3.87	4.28	4.33	4.37
Norway	3.58 e	3.90	3.96	4.09	4.24	4.49	4.77	4.83	4.84
Poland	29.56 e	32.80	33.37	35.58	38.03	38.26	38.12	38.15	38.12
Portugal	9.23 e	8.73	8.72	9.86	10.00	10.23	10.62	10.63	10.62
Slovak Republic	3.99	4.56	4.64	4.98	5.30	5.40	5.41	5.42	5.41
Slovenia	..	..	..	..	2.00	1.99	2.02	2.04	2.06
Spain	30.40 e	34.33	34.96	37.67	39.01	40.26	45.59	45.93	46.27
Sweden	7.48 e	8.10	8.14	8.31	8.56	8.87	9.22	9.30	9.38
Switzerland	5.40 e	6.34	6.44	6.39	6.80	7.21	7.71	7.80	7.76
Turkey	27.53 e	36.22	38.07	44.44	55.12	64.26	71.08	71.90	72.90
United Kingdom	52.37 e	55.93	56.22	56.33	57.24	58.89	61.40	61.79	62.21
United States	180.70 e	207.69	211.94	227.73	250.18	282.42	304.83	307.48	310.47
<b>OECD TOTAL*</b>	..	<b>894.70</b>	<b>915.74</b>	<b>979.95</b>	<b>1 064.06</b>	<b>1 151.82</b>	<b>1 217.46</b>	<b>1 224.87</b>	<b>1 230.86</b>
<b>OECD AMERICAS</b>	..	289.31	297.82	329.13	372.30	426.76	461.50	465.60	469.81
<b>OECD ASIA OCEANIA</b>	..	157.02	162.89	177.03	191.70	203.36	209.35	209.95	209.83
<b>OECD EUROPE*</b>	405.46	448.37	455.03	473.78	500.06	521.70	546.61	549.33	551.22
<b>IEA</b>	735.33	831.75	848.84	898.93	961.11	1 028.23	1 083.13	1 089.36	1 094.15

\* Excludes Estonia and Slovenia prior to 1990.

**Energy production/TPES (self-sufficiency)**  
*Production d'énergie/ATEP (indépendance énergétique)*  
*Energieerzeugung/TPES (Eigenversorgung)*  
*Produzione di energia/ATEP (indice di autosufficienza energetica)*  
 エネルギー生産量／一次エネルギー総供給量(自給率)  
*Producción energética/TPES (autosuficiencia energética)*  
*Производство топлива и энергии/ОППТЭ (самостоятельность)*

	1960	1971	1973	1980	1990	2000	2008	2009	2010e
Australia	0.6767	1.0434	1.1916	1.2271	1.8269	2.1603	2.3264	2.3705	2.5749
Austria	0.6752	0.3915	0.3687	0.3296	0.3271	0.3423	0.3352	0.3601	0.3379
Belgium	0.6070	0.1726	0.1415	0.1730	0.2714	0.2347	0.2483	0.2677	0.2703
Canada	0.7498	1.1025	1.2440	1.0769	1.3124	1.4822	1.5235	1.5340	1.5501
Chile	..	0.6140	0.5977	0.6120	0.5512	0.3285	0.3092	0.3231	0.3057
Czech Republic	..	0.8802	0.8527	0.8778	0.8254	0.7480	0.7354	0.7430	0.7426
Denmark	0.1130	0.0178	0.0224	0.0498	0.5806	1.4884	1.3854	1.2853	1.1790
Estonia	..	..	..	..	0.5463	0.6747	0.7767	0.8754	0.8949
Finland	0.5438	0.2743	0.2322	0.2810	0.4257	0.4673	0.4680	0.4990	0.4817
France	0.5718	0.3002	0.2452	0.2743	0.4997	0.5193	0.5137	0.5054	0.5139
Germany	0.8810	0.5744	0.5129	0.5197	0.5298	0.4012	0.3990	0.3990	0.3897
Greece	0.1338	0.2399	0.1976	0.2467	0.4290	0.3687	0.3242	0.3424	0.3401
Hungary	..	0.6225	0.5969	0.5110	0.5090	0.4647	0.3967	0.4427	0.4315
Iceland	0.2787	0.4687	0.4839	0.6040	0.6704	0.7438	0.8295	0.8426	0.8527
Ireland	0.3705	0.2119	0.1622	0.2299	0.3471	0.1576	0.1018	0.1066	0.1302
Israel	..	1.0347	0.7920	0.0196	0.0370	0.0352	0.1748	0.1516	0.1703
Italy	0.3468	0.1853	0.1711	0.1521	0.1727	0.1642	0.1532	0.1641	0.1694
Japan	0.5812	0.1338	0.0921	0.1257	0.1712	0.2039	0.1790	0.1987	0.1921
Korea	..	0.3758	0.3138	0.2250	0.2430	0.1828	0.1971	0.1934	0.1810
Luxembourg	0.0005	0.0012	0.0009	0.0083	0.0084	0.0175	0.0242	0.0269	0.0247
Mexico	..	1.0088	0.8995	1.5458	1.5891	1.5318	1.2886	1.2599	1.2818
Netherlands	0.4864	0.7341	0.9155	1.1158	0.9217	0.7862	0.8373	0.8065	0.8369
New Zealand	0.6055	0.4943	0.5048	0.6089	0.8935	0.8394	0.8686	0.8743	0.9040
Norway	0.4346	0.4534	0.5650	3.0011	5.6693	8.7742	7.3489	7.5637	6.6295
Poland	1.1962	1.1524	1.1564	1.0002	1.0074	0.8930	0.7290	0.7184	0.6665
Portugal	0.4243	0.2206	0.2032	0.1483	0.2027	0.1559	0.1837	0.2027	0.2536
Slovak Republic	..	0.1887	0.1659	0.1746	0.2478	0.3565	0.3507	0.3550	0.3554
Slovenia	..	..	..	..	0.5374	0.4830	0.4747	0.5081	0.4997
Spain	0.6088	0.2453	0.2199	0.2330	0.3839	0.2597	0.2193	0.2349	0.2646
Sweden	0.2714	0.2049	0.2382	0.3984	0.6289	0.6418	0.6700	0.6683	0.6410
Switzerland	0.2833	0.1772	0.2264	0.3508	0.4215	0.4807	0.4782	0.4736	0.4830
Turkey	0.8766	0.7066	0.6374	0.5450	0.4893	0.3387	0.2942	0.3101	0.2890
United Kingdom	0.7225	0.5262	0.4976	0.9971	1.0101	1.2222	0.8014	0.8076	0.7328
United States	0.9466	0.9048	0.8418	0.8607	0.8629	0.7334	0.7474	0.7797	0.7789
<b>OECD TOTAL*</b>	..	<b>0.6983</b>	<b>0.6570</b>	<b>0.7161</b>	<b>0.7609</b>	<b>0.7236</b>	<b>0.7075</b>	<b>0.7268</b>	<b>0.7185</b>
<b>OECD AMERICAS</b>	..	0.9216	0.8751	0.9104	0.9419	0.8426	0.8534	0.8798	0.8783
<b>OECD ASIA OCEANIA</b>	..	0.3021	0.2759	0.3041	0.4156	0.4570	0.5085	0.5364	0.5333
<b>OECD EUROPE*</b>	..	0.4897	0.4626	0.5730	0.6454	0.6699	0.5851	0.5921	0.5740
<b>IEA</b>	..	0.6940	0.6534	0.6978	0.7410	0.7053	0.6920	0.7130	0.7048

\* Excludes Estonia and Slovenia prior to 1990.

**TPES/GDP (toe per thousand 2000 USD)***ATEP/PIB (tep par millier de USD 2000)**TPES/BIP (in toe pro tausend 2000er USD)**DTEP/PIL (tep per migliaia di USD 2000)**一次エネルギー供給/GDP (石油換算トン/千米ドル、2000年価格)**TPES/PIB (tep por mile de USD 2000)**ОППТЭ / ВВП (тыя на тыс.долл.США в ценах и по валютному курсу 2000 г.)*

	1960	1971	1973	1980	1990	2000	2008	2009	2010e
Australia	0.3234 e	0.3060	0.3167	0.3210	0.2981	0.2631	0.2448	0.2449	0.2292
Austria	0.2049 e	0.2124	0.2176	0.1925	0.1663	0.1494	0.1474	0.1450	0.1485
Belgium	0.3354 e	0.3484	0.3616	0.3060	0.2589	0.2518	0.2184	0.2194	0.2132
Canada	0.4507 e	0.4902	0.4900	0.4675	0.3836	0.3469	0.3070	0.3001	0.2925
Chile	..	0.3777	0.3913	0.3382	0.3341	0.3277	0.2788	0.2787	0.2877
Czech Republic	..	1.1842 e	1.1006 e	0.9646 e	0.8963	0.7225	0.5639	0.5535	0.5454
Denmark	0.1746 e	0.2224	0.2111	0.1897	0.1402	0.1164	0.1086	0.1109	0.1149
Estonia	..	..	..	..	1.6947	0.8300	0.5827	0.5907	0.6602
Finland	0.3068 e	0.3501	0.3516	0.3349	0.2858	0.2650	0.2295	0.2350	0.2446
France	0.2311 e	0.2514	0.2561	0.2227	0.2051	0.1897	0.1767	0.1740	0.1766
Germany	0.2381 e	0.3209	0.3222	0.2914	0.2277	0.1775	0.1596	0.1594	0.1600
Greece	0.0905 e	0.1342	0.1531	0.1591	0.2127	0.2131	0.1773	0.1751	0.1682
Hungary	..	0.7298 e	0.6839 e	0.7116 e	0.6422 e	0.5277	0.4377	0.4407	0.4458
Iceland	0.3046 e	0.2859	0.3126	0.2900	0.3088	0.3564	0.4356	0.4656	0.4945
Ireland	0.2629 e	0.3034	0.2797	0.2423	0.2059	0.1416	0.1101	0.1146	0.1206
Israel	..	0.1774	0.2027	0.1608	0.1630	0.1464	0.1387	0.1329	0.1291
Italy	0.1366 e	0.2034	0.2069	0.1770	0.1563	0.1563	0.1502	0.1482	0.1513
Japan	0.1281 e	0.1499	0.1532	0.1306	0.1059	0.1112	0.0964	0.0969	0.0977
Korea	..	0.3236	0.3360	0.3678	0.3285	0.3526	0.3020	0.3044	0.3084
Luxembourg	0.7880 e	0.6678	0.6312	0.4653	0.2750	0.1619	0.1524	0.1493	0.1535
Mexico	..	0.2066	0.2149	0.2514	0.2707	0.2279	0.2350	0.2411	0.2222
Netherlands	0.2075 e	0.2931	0.3294	0.2846	0.2330	0.1902	0.1767	0.1808	0.1893
New Zealand	0.2153 e	0.2439	0.2497	0.2765	0.3229	0.3151	0.2577	0.2579	0.2648
Norway	0.1782 e	0.2181	0.2127	0.2008	0.1796	0.1537	0.1499	0.1441	0.1572
Poland	0.9899 e	0.9656 e	0.9033 e	1.0641 e	0.8725	0.5203	0.4117	0.3889	0.4054
Portugal	0.1384 e	0.1472	0.1347	0.1572	0.1914	0.2109	0.1931	0.1953	0.1882
Slovak Republic	..	1.1090 e	1.1274 e	1.2156 e	1.1278 e	0.8696	0.5564	0.5339	0.5299
Slovenia	..	..	..	..	0.3451	0.3224	0.2766	0.2712	0.2728
Spain	0.1429 e	0.1762	0.1830	0.2051	0.2044	0.2100	0.1873	0.1774	0.1799
Sweden	0.2392 e	0.2687	0.2722	0.2506	0.2348	0.1923	0.1640	0.1586	0.1681
Switzerland	0.0739 e	0.0988	0.1072	0.1110	0.1082	0.1001	0.0917	0.0941	0.0896
Turkey	0.2403 e	0.2464	0.2768	0.2810	0.2837	0.2864	0.2626	0.2736	0.2695
United Kingdom	0.2902 e	0.2823	0.2659	0.2263	0.1790	0.1509	0.1181	0.1173	0.1203
United States	0.3974 e	0.4105	0.4003	0.3510	0.2711	0.2297	0.1951	0.1904	0.1913
<b>OECD TOTAL*</b>	..	<b>0.3125</b>	<b>0.3084</b>	<b>0.2770</b>	<b>0.2241</b>	<b>0.2018</b>	<b>0.1785</b>	<b>0.1768</b>	<b>0.1774</b>
<b>OECD AMERICAS</b>	..	0.4059	0.3969	0.3526	0.2789	0.2377	0.2053	0.2011	0.2004
<b>OECD ASIA OCEANIA</b>	..	0.1687	0.1724	0.1549	0.1330	0.1468	0.1341	0.1363	0.1364
<b>OECD EUROPE*</b>	..	0.2866	0.2860	0.2631	0.2234	0.1921	0.1723	0.1710	0.1739
<b>IEA</b>	..	0.3149	0.3105	0.2779	0.2224	0.2008	0.1765	0.1747	0.1758

\* Excludes Estonia and Slovenia prior to 1990.

**TPES/GDP PPP (toe per thousand 2000 USD)***ATEP/PIB PPA (tep par millier de USD 2000)**TPES/BIP Kaufkraftparität (in toe pro tausend 2000er USD)**DTEP/PIL PPA (tep per migliaia di USD 2000)**一次エネルギー供給 / GDP (石油換算トン/千米ドル、2000年価格、購買力平価)**TPES/PIB PPP (tep por mile de USD 2000)**ОППТЭ / ВВП (млн на тыс.долл.США в ценах и по ППС 2000 г.)*

	1960	1971	1973	1980	1990	2000	2008	2009	2010e
Australia	0.2460 e	0.2327	0.2408	0.2441	0.2267	0.2000	0.1861	0.1862	0.1743
Austria	0.1699 e	0.1762	0.1805	0.1597	0.1380	0.1240	0.1223	0.1203	0.1232
Belgium	0.2753 e	0.2860	0.2969	0.2512	0.2125	0.2067	0.1793	0.1801	0.1751
Canada	0.3738 e	0.4066	0.4064	0.3877	0.3182	0.2877	0.2546	0.2489	0.2426
Chile	..	0.1990	0.2061	0.1782	0.1760	0.1726	0.1469	0.1468	0.1515
Czech Republic	..	0.4361 e	0.4053 e	0.3552 e	0.3301	0.2661	0.2077	0.2038	0.2008
Denmark	0.1817 e	0.2314	0.2197	0.1974	0.1458	0.1211	0.1130	0.1154	0.1196
Estonia	..	..	..	..	0.7114	0.3484	0.2446	0.2479	0.2772
Finland	0.2813 e	0.3209	0.3223	0.3070	0.2620	0.2429	0.2103	0.2154	0.2243
France	0.2000 e	0.2175	0.2216	0.1927	0.1774	0.1641	0.1529	0.1505	0.1528
Germany	0.2121 e	0.2859	0.2871	0.2596	0.2029	0.1582	0.1422	0.1420	0.1426
Greece	0.0572 e	0.0848	0.0968	0.1006	0.1345	0.1348	0.1121	0.1107	0.1064
Hungary	..	0.2791 e	0.2615 e	0.2721 e	0.2456 e	0.2018	0.1674	0.1685	0.1705
Iceland	0.3266 e	0.3067	0.3352	0.3111	0.3312	0.3823	0.4672	0.4994	0.5304
Ireland	0.2330 e	0.2689	0.2479	0.2148	0.1825	0.1255	0.0976	0.1016	0.1069
Israel	..	0.1497	0.1710	0.1357	0.1375	0.1235	0.1170	0.1121	0.1090
Italy	0.1028 e	0.1531	0.1558	0.1333	0.1177	0.1177	0.1131	0.1116	0.1139
Japan	0.1840 e	0.2152	0.2201	0.1875	0.1520	0.1597	0.1384	0.1391	0.1403
Korea	..	0.2135	0.2217	0.2427	0.2168	0.2327	0.1993	0.2009	0.2035
Luxembourg	0.6825 e	0.5783	0.5466	0.4030	0.2382	0.1402	0.1320	0.1293	0.1330
Mexico	..	0.1333	0.1386	0.1622	0.1746	0.1470	0.1516	0.1555	0.1434
Netherlands	0.1707 e	0.2410	0.2709	0.2341	0.1916	0.1564	0.1454	0.1487	0.1557
New Zealand	0.1412 e	0.1600	0.1638	0.1814	0.2119	0.2067	0.1691	0.1692	0.1737
Norway	0.1849 e	0.2262	0.2206	0.2083	0.1863	0.1594	0.1555	0.1495	0.1630
Poland	0.4194 e	0.4091 e	0.3827 e	0.4509 e	0.3697	0.2204	0.1744	0.1648	0.1718
Portugal	0.0892 e	0.0949	0.0869	0.1014	0.1234	0.1359	0.1245	0.1259	0.1213
Slovak Republic	..	0.3816 e	0.3879 e	0.4182 e	0.3880 e	0.2992	0.1914	0.1837	0.1823
Slovenia	..	..	..	..	0.1975	0.1845	0.1583	0.1552	0.1561
Spain	0.0966 e	0.1192	0.1238	0.1388	0.1383	0.1421	0.1267	0.1200	0.1217
Sweden	0.2385 e	0.2680	0.2714	0.2499	0.2341	0.1918	0.1636	0.1582	0.1676
Switzerland	0.0810 e	0.1083	0.1175	0.1217	0.1186	0.1097	0.1006	0.1032	0.0982
Turkey	0.1087 e	0.1115	0.1252	0.1271	0.1283	0.1296	0.1188	0.1238	0.1219
United Kingdom	0.2793 e	0.2717	0.2559	0.2178	0.1723	0.1452	0.1136	0.1129	0.1158
United States	0.3974 e	0.4105	0.4003	0.3510	0.2711	0.2297	0.1951	0.1904	0.1913
<b>OECD TOTAL*</b>	..	<b>0.2919</b>	<b>0.2885</b>	<b>0.2585</b>	<b>0.2118</b>	<b>0.1886</b>	<b>0.1649</b>	<b>0.1631</b>	<b>0.1637</b>
<b>OECD AMERICAS</b>	..	0.3887	0.3799	0.3348	0.2659	0.2264	0.1952	0.1913	0.1905
<b>OECD ASIA OCEANIA</b>	..	0.2145	0.2201	0.1968	0.1673	0.1761	0.1562	0.1575	0.1574
<b>OECD EUROPE*</b>	..	0.2325	0.2313	0.2116	0.1798	0.1543	0.1367	0.1355	0.1376
<b>IEA</b>	..	0.2973	0.2938	0.2630	0.2132	0.1905	0.1656	0.1636	0.1647

\* Excludes Estonia and Slovenia prior to 1990.

**TPES/population (toe per capita)***ATEP/Population (tep par habitant)**TPES/Bevölkerung (toe pro Kopf)**DTEP/Popolazione (tep per abitante)*

一人当たり一次エネルギー供給 (石油換算トン/人)

*TPES/ población (tep per capita)**ОППЭ / Численность населения (тнэ на человека)*

	1960	1971	1973	1980	1990	2000	2008	2009	2010e
Australia	3.0263 e	3.9107	4.1910	4.7007	5.0219	5.6103	5.9792	5.9305	5.6750
Austria	1.5464 e	2.5083	2.8310	3.0672	3.2277	3.5659	4.0166	3.7854	3.9416
Belgium	2.5270 e	4.1055	4.7289	4.7437	4.8439	5.7104	5.4706	5.3029	5.2320
Canada	4.2550 e	6.4360	7.0844	7.8561	7.5319	8.1943	7.9977	7.5317	7.5263
Chile	..	0.8906	0.8405	0.8467	1.0284	1.6043	1.7471	1.7002	1.8282
Czech Republic	..	4.6164	4.5514	4.5460	4.7827	3.9890	4.2790	3.9964	4.0399
Denmark	1.9186 e	3.7286	3.7817	3.7344	3.3781	3.4908	3.4990	3.3693	3.5586
Estonia	..	..	..	..	6.2411	3.4363	4.0569	3.5436	4.0872
Finland	2.1968 e	3.9393	4.5076	5.1461	5.6921	6.2311	6.6412	6.2127	6.6463
France	1.6960 e	3.0258	3.3798	3.4798	3.8488	4.1477	4.1658	3.9727	4.0861
Germany	1.9963 e	3.8937	4.2390	4.5615	4.4278	4.1039	4.0758	3.8904	4.0552
Greece	0.2843 e	0.9673	1.3003	1.5273	2.0742	2.4811	2.7071	2.6091	2.3944
Hungary	..	1.8364	2.0406	2.6481	2.7648	2.4483	2.6358	2.4802	2.5464
Iceland	3.0753 e	4.3804	5.2768	6.5650	8.1901	11.0312	16.4595	16.3789	16.7913
Ireland	1.3163 e	2.2559	2.2479	2.4215	2.8487	3.6012	3.3540	3.2094	3.2874
Israel	..	1.8550	2.3519	2.0069	2.4541	2.9017	3.0528	2.8959	2.8929
Italy	0.7989 e	1.9491	2.1756	2.3184	2.5839	3.0122	2.9426	2.7350	2.8362
Japan	0.8631 e	2.5483	2.9418	2.9431	3.5540	4.0886	3.8864	3.7069	3.8996
Korea	..	0.5161	0.6318	1.0810	2.1714	4.0009	4.6690	4.7014	5.0517
Luxembourg	10.5224 e	11.8777	12.6287	9.7787	8.9284	7.5250	8.5759	7.9466	8.3099
Mexico	..	0.8618	0.9868	1.4478	1.5076	1.4770	1.6992	1.6254	1.5679
Netherlands	1.8268 e	3.8555	4.6137	4.5494	4.3945	4.5988	4.8388	4.7301	5.0059
New Zealand	1.7278 e	2.4134	2.6993	2.8578	3.8024	4.3485	4.0311	4.0173	4.1897
Norway	1.9052 e	3.4071	3.6009	4.4827	4.9523	5.7595	6.2483	5.8514	6.3889
Poland	1.8327 e	2.6257	2.7832	3.5589	2.7111	2.3295	2.5680	2.4634	2.6679
Portugal	0.3235 e	0.7190	0.7911	1.0125	1.6748	2.4128	2.3000	2.2664	2.2150
Slovak Republic	..	3.1275	3.3437	3.9825	4.0256	3.2858	3.3865	3.0871	3.1940
Slovenia	..	..	..	..	2.8592	3.2243	3.8257	3.4127	3.4399
Spain	0.5318 e	1.2409	1.4763	1.7971	2.3091	3.0287	3.0446	2.7547	2.7695
Sweden	2.7005 e	4.4506	4.7734	4.8719	5.5144	5.3602	5.3797	4.8831	5.4140
Switzerland	1.3795 e	2.5838	2.9358	3.1380	3.5785	3.4692	3.4724	3.4550	3.3882
Turkey	0.3882 e	0.5397	0.6397	0.7076	0.9571	1.1881	1.3858	1.3583	1.4376
United Kingdom	3.0343 e	3.7312	3.8787	3.5227	3.5977	3.7859	3.3901	3.1843	3.2831
United States	5.6407 e	7.6434	8.1624	7.9248	7.6544	8.0495	7.4698	7.0343	7.1987
<b>OECD TOTAL*</b>	..	<b>3.7692</b>	<b>4.0848</b>	<b>4.1515</b>	<b>4.2499</b>	<b>4.5946</b>	<b>4.5018</b>	<b>4.2761</b>	<b>4.3976</b>
<b>OECD AMERICAS</b>	..	6.1544	6.5488	6.3861	6.0693	6.3141	5.9675	5.6282	5.7287
<b>OECD ASIA OCEANIA</b>	..	2.2211	2.5462	2.6670	3.3538	4.1807	4.2583	4.1495	4.3249
<b>OECD EUROPE*</b>	..	2.7723	3.0228	3.1538	3.2388	3.3493	3.3577	3.1786	3.2907
<b>IEA</b>	..	3.9844	4.3243	4.3989	4.5332	4.9501	4.8283	4.5860	4.7268

\* Excludes Estonia and Slovenia prior to 1990.

**Index of industry consumption/industrial production (2005=100)***Indice de Consommation industrielle/Production industrielle (2005=100)**Index des Industrieverbrauchs/Industrieerzeugung (2005=100)**Indice di Consumo industriale/Produzione industriale (2005=100)**産業部門エネルギー消費原単位 (2005=100)**Indice del Consumo industrial / Producción industrial (2005=100)**Потребление промышленным сектором/Объем промышленной продукции (Индекс 2005=100)*

	1960	1971	1973	1980	1990	2000	2008	2009	2010e
Australia	..	..	..	119.38	105.31	99.75	95.59	95.42	..
Austria	242.18	189.49	186.44	155.82	124.69	98.98	90.09	96.84	..
Belgium	121.58	143.52	147.88	112.68	91.15	113.16	97.79	97.83	..
Canada	..	131.65	130.97	139.72	113.65	94.14	98.43	105.62	..
Chile	..	..	..	..	..	116.28	90.95	94.83	..
Czech Republic	..	..	..	..	168.97	128.60	79.80	83.49	..
Denmark	..	..	..	209.88	132.00	106.33	92.95	95.48	..
Estonia	..	..	..	..	..	133.37	91.47	76.95	..
Finland	144.81	145.09	172.27	128.40	140.75	105.91	90.70	92.25	..
France	169.21	196.45	170.63	150.78	108.33	106.32	99.72	94.53	..
Germany	167.75	190.96	194.36	173.60	125.88	98.56	84.69	90.56	..
Greece	..	125.88	126.19	118.73	112.91	105.24	102.70	97.08	..
Hungary	..	..	..	348.04	281.16	119.76	80.84	83.22	..
Iceland	..	..	..	..	..	..	..	..	..
Ireland	..	..	..	631.95	340.13	139.80	91.17	78.22	..
Israel	..	..	..	..	146.88	121.27	69.04	75.23	..
Italy	128.50	161.80	155.99	118.64	105.60	95.07	92.42	96.22	..
Japan	208.40	193.29	181.88	130.08	101.50	102.79	85.26	107.07	..
Korea	..	..	..	185.57	119.81	123.88	93.51	93.16	..
Luxembourg	463.77	533.59	523.86	484.17	272.51	117.43	103.98	104.08	..
Mexico	..	..	..	136.00	148.66	106.43	97.24	95.22	..
Netherlands	74.71	99.19	118.22	127.78	99.59	94.11	98.78	98.54	..
New Zealand	..	..	..	92.81	137.73	146.18	107.31	119.01	..
Norway	208.51	230.12	230.04	184.97	117.71	95.79	104.34	92.38	..
Poland	..	..	..	..	286.86	139.56	79.57	75.94	..
Portugal	69.55	86.87	77.60	80.25	88.99	97.95	94.12	91.74	..
Slovak Republic	..	..	..	..	181.92	131.67	73.96	74.32	..
Slovenia	..	..	..	..	..	99.88	77.03	77.52	..
Spain	..	105.68	96.48	93.04	82.04	89.87	88.17	95.10	..
Sweden	262.50	214.88	213.42	187.61	151.69	117.24	93.76	102.32	..
Switzerland	165.79	162.18	160.78	151.36	107.01	97.15	84.41	85.07	..
Turkey	..	..	..	..	94.34	112.68	79.09	95.56	..
United Kingdom	180.22	200.70	193.83	141.20	108.93	101.43	93.15	90.47	..
United States	292.89	248.77	228.52	207.85	137.23	111.84	96.17	97.46	..
<b>OECD TOTAL*</b>	..	..	..	<b>163.02</b>	<b>121.20</b>	<b>106.93</b>	<b>92.15</b>	<b>96.35</b>	..
<b>OECD AMERICAS</b>	..	..	..	..	..	..	..	..	..
<b>OECD ASIA OCEANIA</b>	..	..	..	..	..	..	..	..	..
<b>OECD EUROPE*</b>	..	183.74	178.27	155.84	120.90	103.47	89.94	92.07	..
<b>IEA</b>	..	..	..	..	..	..	..	..	..

\* Excludes Estonia and Slovenia prior to 1990.

2010 data for consumption will be released in the 2012 edition.

# RENEWABLE ENERGY AND WASTE



**OECD Total**  
**Contribution from renewable energies and energy from waste**

	1990	1995	2000	2006	2007	2008	2009	2010e
<b>TPES (ktoe)</b>								
<b>TOTAL PRIMARY ENERGY SUPPLY</b>	<b>4 522 104</b>	<b>4 873 127</b>	<b>5 292 147</b>	<b>5 512 387</b>	<b>5 552 725</b>	<b>5 480 773</b>	<b>5 237 724</b>	<b>5 412 808</b>
% contribution of renewables and waste	6.1	6.4	6.3	6.7	6.9	7.4	7.9	8.0
<b>Renewables</b>	<b>267 556</b>	<b>297 622</b>	<b>316 779</b>	<b>352 230</b>	<b>365 880</b>	<b>383 830</b>	<b>391 456</b>	<b>411 945</b>
% contribution	5.9	6.1	6.0	6.4	6.6	7.0	7.5	7.6
Hydro	101 617	113 940	115 271	113 698	110 681	114 575	113 584	115 198
Geothermal (transformation*)	24 268	25 446	27 497	25 006	26 496	26 541	26 999	27 875
Geothermal (direct use**)	2 019	2 424	2 846	3 590	3 779	3 093	3 583	3 699
Solar photovoltaic (transformation*)	2	11	63	448	605	982	1 680	2 471
Solar thermal (transformation*)	57	71	134	124	152	201	189	191
Solar thermal (direct use**)	1 806	2 000	3 677	3 902	4 201	4 725	4 951	5 004
Tide/wave/ocean	51	52	52	47	47	47	46	48
Wind	331	632	2 456	10 065	12 887	16 184	19 187	22 337
Municipal waste (renewable)	4 798	6 645	9 040	11 196	13 130	13 513	13 325	13 596
Solid biofuels	131 032	141 071	146 103	156 071	157 856	159 147	156 272	163 124
Biogasoline	-	2 668	3 125	11 509	15 098	21 195	24 354	28 943
Biodiesels	-	154	434	3 270	5 595	7 937	10 545	11 118
Other liquid biofuels	6	43	242	3 500	2 880	2 498	2 204	2 546
Biogases	1 569	2 466	5 840	9 803	12 473	13 192	14 539	15 795
<b>Non-renewable waste</b>	<b>8 950</b>	<b>13 525</b>	<b>17 460</b>	<b>17 409</b>	<b>19 642</b>	<b>19 102</b>	<b>20 584</b>	<b>19 725</b>
% contribution	0.2	0.3	0.3	0.3	0.4	0.3	0.4	0.4
Industrial waste	4 343	6 999	8 650	7 142	7 901	6 988	8 647	7 549
Municipal waste (non-renewable)	4 606	6 525	8 811	10 267	11 741	12 114	11 937	12 177
<i>Memo: total waste***</i>	<i>13 748</i>	<i>20 169</i>	<i>26 500</i>	<i>28 605</i>	<i>32 771</i>	<i>32 615</i>	<i>33 908</i>	<i>33 321</i>

**ELECTRICITY (GWh)**

<b>TOTAL ELECTRICITY GENERATED</b>	<b>7 629 268</b>	<b>8 545 213</b>	<b>9 726 947</b>	<b>10 590 260</b>	<b>10 790 923</b>	<b>10 809 808</b>	<b>10 403 089</b>	<b>10 772 244</b>
% contribution of renewables and waste	17.6	17.4	16.0	16.0	15.8	16.6	17.7	17.9
<b>Renewables</b>	<b>1 322 415</b>	<b>1 460 378</b>	<b>1 520 540</b>	<b>1 655 475</b>	<b>1 668 789</b>	<b>1 764 362</b>	<b>1 809 700</b>	<b>1 890 949</b>
% contribution	17.3	17.1	15.6	15.6	15.5	16.3	17.4	17.6
Hydro (excl. pumped storage)	1 181 593	1 324 882	1 340 357	1 322 072	1 286 992	1 332 263	1 320 742	1 339 509
Geothermal	28 614	29 798	32 976	38 055	40 307	40 815	42 074	43 017
Solar photovoltaic	19	126	731	5 213	7 037	11 414	19 534	28 734
Solar thermal	663	824	526	551	685	898	842	844
Tide/wave/ocean	597	601	605	550	549	546	530	554
Wind	3 845	7 349	28 553	117 036	149 848	188 186	223 105	259 727
Municipal waste (renewable)	9 134	13 170	18 802	26 918	28 883	29 289	29 236	29 908
Solid biofuels	94 298	77 463	84 865	116 499	122 317	126 358	131 199	143 209
Liquid biofuels	-	-	-	3 673	3 267	3 443	4 811	5 065
Biogases	3 652	6 165	13 125	24 908	28 904	31 150	37 627	40 382
<b>Non-renewable waste</b>	<b>16 644</b>	<b>22 376</b>	<b>31 835</b>	<b>33 848</b>	<b>34 634</b>	<b>34 718</b>	<b>35 949</b>	<b>34 472</b>
% contribution	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Industrial waste	7 665	9 399	13 532	9 290	9 082	8 760	10 006	7 784
Municipal waste (non-renewable)	8 979	12 977	18 303	24 558	25 552	25 958	25 943	26 688
<i>Memo: total waste***</i>	<i>25 778</i>	<i>35 546</i>	<i>50 637</i>	<i>60 766</i>	<i>63 517</i>	<i>64 007</i>	<i>65 185</i>	<i>64 380</i>

\* Primary energy used in the production of electricity and heat by main activity producers or autoproducers in electricity plants, CHP plants and heat plants (e.g. solar thermal power plants, geothermal power plants, etc.).

\*\* Primary energy used elsewhere than in transformation as described above (e.g. remote photovoltaic electricity production for households, heating of buildings/greenhouses by geothermal, etc.).

\*\*\* Includes municipal waste and industrial waste.

## OECD Americas

### Contribution from renewable energies and energy from waste

	1990	1995	2000	2006	2007	2008	2009	2010e
<b>TPES (ktoe)</b>								
<b>TOTAL PRIMARY ENERGY SUPPLY</b>	<b>2 259 607</b>	<b>2 445 675</b>	<b>2 694 608</b>	<b>2 764 890</b>	<b>2 813 478</b>	<b>2 753 953</b>	<b>2 620 458</b>	<b>2 691 406</b>
% contribution of renewables and waste	6.7	7.0	6.5	6.6	6.5	6.9	7.3	7.3
<b>Renewables</b>	<b>148 212</b>	<b>164 550</b>	<b>167 149</b>	<b>176 023</b>	<b>177 547</b>	<b>185 041</b>	<b>184 582</b>	<b>191 661</b>
% contribution	6.6	6.7	6.2	6.4	6.3	6.7	7.0	7.1
Hydro	51 797	59 854	57 049	60 779	57 682	59 717	59 465	57 583
Geothermal (transformation*)	18 170	17 718	17 642	13 461	14 116	13 924	13 742	13 880
Geothermal (direct use**)	336	406	519	925	1 036	244	219	221
Solar photovoltaic (transformation*)	-	1	18	66	89	108	156	156
Solar thermal (transformation*)	57	71	133	123	148	196	181	185
Solar thermal (direct use**)	17	25	1 484	1 373	1 434	1 503	1 536	1 575
Tide/wave/ocean	2	3	3	3	3	3	3	3
Wind	264	281	510	2 515	3 259	5 135	6 835	8 751
Municipal waste (renewable)	2 136	3 304	4 172	4 124	4 001	4 127	4 085	4 015
Solid biofuels	74 675	79 176	79 371	76 731	76 090	74 843	70 102	72 687
Biogasoline	-	2 644	3 067	10 638	13 852	19 240	21 916	26 203
Biodiesels	-	-	21	816	1 168	1 039	954	769
Other liquid biofuels	-	-	-	222	92	85	88	111
Biogases	757	1 068	3 160	4 248	4 578	4 878	5 301	5 522
<b>Non-renewable waste</b>	<b>4 073</b>	<b>6 422</b>	<b>8 324</b>	<b>6 357</b>	<b>6 508</b>	<b>5 794</b>	<b>6 169</b>	<b>4 764</b>
% contribution	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.2
Industrial waste	1 965	3 153	4 187	3 135	3 383	2 570	2 980	1 639
Municipal waste (non-renewable)	2 108	3 268	4 137	3 222	3 126	3 224	3 190	3 125
<i>Memo: total waste***</i>	<i>6 209</i>	<i>9 725</i>	<i>12 496</i>	<i>10 481</i>	<i>10 509</i>	<i>9 921</i>	<i>10 254</i>	<i>8 779</i>

### ELECTRICITY (GWh)

<b>TOTAL ELECTRICITY GENERATED</b>	<b>3 819 063</b>	<b>4 298 654</b>	<b>4 875 736</b>	<b>5 195 691</b>	<b>5 281 659</b>	<b>5 305 486</b>	<b>5 090 257</b>	<b>5 265 940</b>
% contribution of renewables and waste	18.8	18.5	15.9	16.3	15.5	16.3	17.4	16.7
<b>Renewables</b>	<b>708 427</b>	<b>782 269</b>	<b>757 546</b>	<b>831 815</b>	<b>807 137</b>	<b>852 470</b>	<b>870 334</b>	<b>871 922</b>
% contribution	18.5	18.2	15.5	16.0	15.3	16.1	17.1	16.6
Hydro (excl. pumped storage)	602 295	695 981	663 362	706 736	670 719	694 381	691 448	669 568
Geothermal	21 136	20 610	20 522	23 266	24 202	23 929	23 786	23 766
Solar photovoltaic	4	13	206	768	1 035	1 257	1 812	1 812
Solar thermal	663	824	526	550	673	878	816	816
Tide/wave/ocean	26	33	32	31	30	33	33	33
Wind	3 067	3 262	5 933	29 242	37 898	59 709	79 474	101 756
Municipal waste (renewable)	5 382	7 485	8 463	9 792	9 680	9 620	9 576	9 369
Solid biofuels	73 337	50 729	52 547	53 446	54 527	53 311	53 156	54 993
Liquid biofuels	-	-	-	164	84	88	91	97
Biogases	2 517	3 332	5 955	7 820	8 289	9 264	10 142	9 712
<b>Non-renewable waste</b>	<b>10 058</b>	<b>11 709</b>	<b>15 587</b>	<b>13 273</b>	<b>12 587</b>	<b>12 875</b>	<b>13 029</b>	<b>9 246</b>
% contribution	0.3	0.3	0.3	0.3	0.2	0.2	0.3	0.2
Industrial waste	4 710	4 268	7 170	5 605	5 006	5 344	5 532	1 904
Municipal waste (non-renewable)	5 348	7 441	8 417	7 668	7 581	7 531	7 497	7 342
<i>Memo: total waste***</i>	<i>15 440</i>	<i>19 194</i>	<i>24 050</i>	<i>23 065</i>	<i>22 267</i>	<i>22 495</i>	<i>22 605</i>	<i>18 615</i>

\* Primary energy used in the production of electricity and heat by main activity producers or autoproducers in electricity plants, CHP plants and heat plants (e.g. solar thermal power plants, geothermal power plants, etc.).

\*\* Primary energy used elsewhere than in transformation as described above (e.g. remote photovoltaic electricity production for households, heating of buildings/greenhouses by geothermal, etc.).

\*\*\* Includes municipal waste and industrial waste.

## OECD Asia Oceania

## Contribution from renewable energies and energy from waste

	1990	1995	2000	2006	2007	2008	2009	2010e
<b>TPES (ktoe)</b>								
<b>TOTAL PRIMARY ENERGY SUPPLY</b>	<b>642 929</b>	<b>764 010</b>	<b>850 201</b>	<b>893 380</b>	<b>900 645</b>	<b>891 466</b>	<b>871 190</b>	<b>907 471</b>
% contribution of renewables and waste	4.1	3.7	3.7	3.8	3.7	3.9	4.0	3.8
<b>Renewables</b>	<b>25 851</b>	<b>27 132</b>	<b>29 331</b>	<b>31 228</b>	<b>30 843</b>	<b>31 536</b>	<b>31 862</b>	<b>31 401</b>
% contribution	4.0	3.6	3.4	3.5	3.4	3.5	3.7	3.5
Hydro	11 438	11 036	11 359	11 204	9 939	9 786	9 845	9 894
Geothermal (transformation*)	2 803	4 038	4 516	4 487	4 553	4 693	5 213	5 618
Geothermal (direct use**)	248	387	415	436	443	447	459	495
Solar photovoltaic (transformation*)	-	6	34	166	190	232	311	355
Solar thermal (transformation*)	-	-	-	-	-	-	-	-
Solar thermal (direct use**)	1 617	1 569	1 527	1 372	1 436	1 742	1 762	1 722
Tide/wave/ocean	-	-	-	-	-	-	-	-
Wind	-	1	26	412	563	649	767	864
Municipal waste (renewable)	200	321	598	1 021	1 052	1 064	1 073	1 121
Solid biofuels	9 435	9 581	10 518	11 424	11 809	11 866	11 194	10 167
Biogasoline	-	-	-	34	68	123	171	182
Biodiesels	-	-	-	59	123	191	282	376
Other liquid biofuels	-	-	-	-	-	-	13	13
Biogases	108	194	337	613	665	743	771	593
<b>Non-renewable waste</b>	<b>665</b>	<b>1 291</b>	<b>1 854</b>	<b>2 720</b>	<b>2 898</b>	<b>3 098</b>	<b>3 021</b>	<b>3 135</b>
% contribution	0.1	0.2	0.2	0.3	0.3	0.3	0.3	0.3
Industrial waste	466	976	1 292	1 806	1 944	2 094	2 000	2 123
Municipal waste (non-renewable)	199	315	562	913	954	1 005	1 021	1 012
<i>Memo: total waste***</i>	<i>865</i>	<i>1 612</i>	<i>2 452</i>	<i>3 741</i>	<i>3 950</i>	<i>4 163</i>	<i>4 094</i>	<i>4 256</i>

## ELECTRICITY (GWh)

<b>TOTAL ELECTRICITY GENERATED</b>	<b>1 148 332</b>	<b>1 380 650</b>	<b>1 629 288</b>	<b>1 838 215</b>	<b>1 899 756</b>	<b>1 877 371</b>	<b>1 852 035</b>	<b>1 907 614</b>
% contribution of renewables and waste	12.9	10.7	9.6	9.2	8.3	8.4	8.7	8.5
<b>Renewables</b>	<b>147 740</b>	<b>146 434</b>	<b>153 619</b>	<b>164 700</b>	<b>153 076</b>	<b>153 423</b>	<b>156 191</b>	<b>158 898</b>
% contribution	12.9	10.6	9.4	9.0	8.1	8.2	8.4	8.3
Hydro (excl. pumped storage)	133 000	128 320	132 087	130 279	115 571	113 789	114 476	115 049
Geothermal	3 872	5 334	6 270	6 449	6 598	6 954	7 752	8 535
Solar photovoltaic	2	67	396	1 930	2 208	2 692	3 621	4 128
Solar thermal	-	-	-	1	4	4	4	4
Tide/wave/ocean	-	-	-	-	-	-	-	-
Wind	-	9	304	4 794	6 550	7 541	8 920	10 049
Municipal waste (renewable)	903	1 401	2 374	3 500	3 531	3 509	3 532	3 537
Solid biofuels	9 823	11 065	11 619	16 476	17 131	17 045	15 899	15 932
Liquid biofuels	-	-	-	-	-	-	36	36
Biogases	140	238	569	1 271	1 483	1 889	1 951	1 628
<b>Non-renewable waste</b>	<b>904</b>	<b>1 402</b>	<b>2 465</b>	<b>3 935</b>	<b>3 937</b>	<b>3 974</b>	<b>4 113</b>	<b>4 138</b>
% contribution	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2
Industrial waste	-	-	97	461	436	489	616	637
Municipal waste (non-renewable)	904	1 402	2 368	3 474	3 501	3 485	3 497	3 501
<i>Memo: total waste***</i>	<i>1 807</i>	<i>2 803</i>	<i>4 839</i>	<i>7 435</i>	<i>7 468</i>	<i>7 483</i>	<i>7 645</i>	<i>7 675</i>

\* Primary energy used in the production of electricity and heat by main activity producers or autoproducers in electricity plants, CHP plants and heat plants (e.g. solar thermal power plants, geothermal power plants, etc.).

\*\* Primary energy used elsewhere than in transformation as described above (e.g. remote photovoltaic electricity production for households, heating of buildings/greenhouses by geothermal, etc.).

\*\*\* Includes municipal waste and industrial waste.

## OECD Europe

### Contribution from renewable energies and energy from waste

	1990	1995	2000	2006	2007	2008	2009	2010e
<b>TPES (ktoe)</b>								
<b>TOTAL PRIMARY ENERGY SUPPLY</b>	<b>1 619 568</b>	<b>1 663 442</b>	<b>1 747 338</b>	<b>1 854 117</b>	<b>1 838 601</b>	<b>1 835 354</b>	<b>1 746 076</b>	<b>1 813 931</b>
% contribution of renewables and waste	6.0	6.7	7.3	8.3	9.1	9.7	10.7	11.1
<b>Renewables</b>	<b>93 493</b>	<b>105 940</b>	<b>120 299</b>	<b>144 978</b>	<b>157 490</b>	<b>167 253</b>	<b>175 012</b>	<b>188 883</b>
% contribution	5.8	6.4	6.9	7.8	8.6	9.1	10.0	10.4
Hydro	38 382	43 050	46 862	41 715	43 060	45 072	44 274	47 721
Geothermal (transformation*)	3 294	3 690	5 339	7 058	7 828	7 924	8 045	8 346
Geothermal (direct use**)	1 434	1 631	1 912	2 229	2 300	2 402	2 905	3 014
Solar photovoltaic (transformation*)	1	4	11	216	326	642	1 213	1 960
Solar thermal (transformation*)	-	-	1	1	3	5	8	8
Solar thermal (direct use**)	172	406	667	1 158	1 331	1 480	1 652	1 705
Tide/wave/ocean	49	49	49	45	45	44	43	45
Wind	67	351	1 919	7 138	9 064	10 400	11 585	12 721
Municipal waste (renewable)	2 462	3 020	4 269	6 050	8 076	8 322	8 167	8 460
Solid biofuels	46 921	52 314	56 213	67 916	69 958	72 438	74 976	80 270
Biogasoline	-	24	58	838	1 179	1 832	2 267	2 558
Biodiesels	-	154	414	2 394	4 303	6 707	9 308	9 974
Other liquid biofuels	6	43	242	3 278	2 788	2 413	2 103	2 422
Biogases	704	1 204	2 343	4 942	7 229	7 572	8 466	9 680
<b>Non-renewable waste</b>	<b>4 212</b>	<b>5 812</b>	<b>7 283</b>	<b>8 332</b>	<b>10 236</b>	<b>10 210</b>	<b>11 393</b>	<b>11 826</b>
% contribution	0.3	0.3	0.4	0.4	0.6	0.6	0.7	0.7
Industrial waste	1 913	2 870	3 170	2 201	2 574	2 325	3 667	3 787
Municipal waste (non-renewable)	2 299	2 942	4 112	6 131	7 662	7 885	7 726	8 040
<i>Memo: total waste***</i>	<i>6 674</i>	<i>8 832</i>	<i>11 552</i>	<i>14 383</i>	<i>18 312</i>	<i>18 532</i>	<i>19 560</i>	<i>20 287</i>

### ELECTRICITY (GWh)

<b>TOTAL ELECTRICITY GENERATED</b>	<b>2 661 873</b>	<b>2 865 909</b>	<b>3 221 923</b>	<b>3 556 354</b>	<b>3 609 508</b>	<b>3 626 951</b>	<b>3 460 797</b>	<b>3 598 690</b>
% contribution of renewables and waste	17.7	18.9	19.3	19.0	20.1	21.4	23.2	24.5
<b>Renewables</b>	<b>466 248</b>	<b>531 675</b>	<b>609 375</b>	<b>658 960</b>	<b>708 576</b>	<b>758 469</b>	<b>783 175</b>	<b>860 129</b>
% contribution	17.5	18.6	18.9	18.5	19.6	20.9	22.6	23.9
Hydro (excl. pumped storage)	446 298	500 581	544 908	485 057	500 702	524 093	514 818	554 892
Geothermal	3 606	3 854	6 184	8 340	9 507	9 932	10 536	10 716
Solar photovoltaic	13	46	129	2 515	3 794	7 465	14 101	22 794
Solar thermal	-	-	-	-	8	16	22	24
Tide/wave/ocean	571	568	573	519	519	513	497	521
Wind	778	4 078	22 316	83 000	105 400	120 936	134 711	147 922
Municipal waste (renewable)	2 849	4 284	7 965	13 626	15 672	16 160	16 128	17 002
Solid biofuels	11 138	15 669	20 699	46 577	50 659	56 002	62 144	72 284
Liquid biofuels	-	-	-	3 509	3 183	3 355	4 684	4 932
Biogases	995	2 595	6 601	15 817	19 132	19 997	25 534	29 042
<b>Non-renewable waste</b>	<b>5 682</b>	<b>9 265</b>	<b>13 783</b>	<b>16 640</b>	<b>18 110</b>	<b>17 869</b>	<b>18 807</b>	<b>21 088</b>
% contribution	0.2	0.3	0.4	0.5	0.5	0.5	0.5	0.6
Industrial waste	2 955	5 131	6 265	3 224	3 640	2 927	3 858	5 243
Municipal waste (non-renewable)	2 727	4 134	7 518	13 416	14 470	14 942	14 949	15 845
<i>Memo: total waste***</i>	<i>8 531</i>	<i>13 549</i>	<i>21 748</i>	<i>30 266</i>	<i>33 782</i>	<i>34 029</i>	<i>34 935</i>	<i>38 090</i>

\* Primary energy used in the production of electricity and heat by main activity producers or autoproducers in electricity plants, CHP plants and heat plants (e.g. solar thermal power plants, geothermal power plants, etc.).

\*\* Primary energy used elsewhere than in transformation as described above (e.g. remote photovoltaic electricity production for households, heating of buildings/greenhouses by geothermal, etc.).

\*\*\* Includes municipal waste and industrial waste.

## IEA

## Contribution from renewable energies and energy from waste

	1990	1995	2000	2006	2007	2008	2009	2010e
<b>TPES (ktoe)</b>								
<b>TOTAL PRIMARY ENERGY SUPPLY</b>	<b>4 356 874</b>	<b>4 696 561</b>	<b>5 089 844</b>	<b>5 275 274</b>	<b>5 308 943</b>	<b>5 229 656</b>	<b>4 995 813</b>	<b>5 171 889</b>
% contribution of renewables and waste	5.9	6.1	6.0	6.4	6.7	7.1	7.6	7.7
<b>Renewables</b>	<b>246 649</b>	<b>273 593</b>	<b>289 811</b>	<b>322 796</b>	<b>335 583</b>	<b>351 712</b>	<b>360 457</b>	<b>380 038</b>
% contribution	5.7	5.8	5.7	6.1	6.3	6.7	7.2	7.3
Hydro	98 215	109 304	109 949	107 641	105 341	107 707	107 645	108 658
Geothermal (transformation*)	19 415	19 960	21 296	17 197	17 493	17 709	18 415	19 238
Geothermal (direct use**)	1 428	1 875	2 217	3 022	3 193	2 577	3 028	3 164
Solar photovoltaic (transformation*)	2	10	62	447	604	981	1 676	2 467
Solar thermal (transformation*)	57	71	134	124	152	201	189	190
Solar thermal (direct use**)	1 431	1 513	3 038	3 073	3 345	3 528	3 750	3 772
Tide/wave/ocean	51	52	52	47	47	47	46	48
Wind	331	631	2 454	10 052	12 855	16 145	19 111	22 249
Municipal waste (renewable)	4 798	6 644	9 039	11 194	13 127	13 512	13 321	13 593
Solid biofuels	119 364	128 237	131 948	141 946	143 437	144 555	141 750	148 409
Biogasoline	-	2 668	3 125	11 509	15 098	21 192	24 352	28 941
Biodiesels	-	154	434	3 268	5 581	7 915	10 517	11 080
Other liquid biofuels	6	43	242	3 500	2 880	2 498	2 191	2 533
Biogases	1 551	2 430	5 821	9 775	12 431	13 144	14 465	15 696
<b>Non-renewable waste</b>	<b>8 950</b>	<b>13 524</b>	<b>17 459</b>	<b>17 392</b>	<b>19 626</b>	<b>19 086</b>	<b>20 563</b>	<b>19 701</b>
% contribution	0.2	0.3	0.3	0.3	0.4	0.4	0.4	0.4
Industrial waste	4 343	6 999	8 649	7 126	7 888	6 974	8 627	7 525
Municipal waste (non-renewable)	4 606	6 525	8 810	10 266	11 738	12 112	11 936	12 176
<i>Memo: total waste***</i>	<i>13 748</i>	<i>20 168</i>	<i>26 498</i>	<i>28 587</i>	<i>32 753</i>	<i>32 597</i>	<i>33 884</i>	<i>33 294</i>

**ELECTRICITY (GWh)**

<b>TOTAL ELECTRICITY GENERATED</b>	<b>7 439 815</b>	<b>8 307 831</b>	<b>9 410 214</b>	<b>10 200 101</b>	<b>10 382 167</b>	<b>10 387 798</b>	<b>9 984 329</b>	<b>10 337 851</b>
% contribution of renewables and waste	17.4	17.1	15.7	15.7	15.6	16.4	17.6	17.7
<b>Renewables</b>	<b>1 276 463</b>	<b>1 395 821</b>	<b>1 448 719</b>	<b>1 571 644</b>	<b>1 590 118</b>	<b>1 667 070</b>	<b>1 720 897</b>	<b>1 794 726</b>
% contribution	17.2	16.8	15.4	15.4	15.3	16.0	17.2	17.4
Hydro (excl. pumped storage)	1 142 030	1 270 979	1 278 482	1 251 636	1 224 891	1 252 403	1 251 687	1 263 462
Geothermal	23 190	23 839	25 752	28 739	29 324	29 721	30 781	31 934
Solar photovoltaic	18	121	724	5 203	7 028	11 404	19 494	28 685
Solar thermal	663	824	526	551	685	898	842	844
Tide/wave/ocean	597	601	605	550	549	546	530	554
Wind	3 844	7 342	28 534	116 884	149 476	187 737	222 226	258 711
Municipal waste (renewable)	9 134	13 170	18 802	26 917	28 882	29 288	29 230	29 902
Solid biofuels	93 335	72 780	82 198	112 665	117 223	120 612	123 871	135 421
Liquid biofuels	-	-	-	3 673	3 267	3 443	4 775	5 029
Biogases	3 652	6 165	13 096	24 826	28 793	31 018	37 461	40 184
<b>Non-renewable waste</b>	<b>16 644</b>	<b>22 376</b>	<b>31 835</b>	<b>33 843</b>	<b>34 628</b>	<b>34 715</b>	<b>35 945</b>	<b>34 467</b>
% contribution	0.2	0.3	0.3	0.3	0.3	0.3	0.4	0.3
Industrial waste	7 665	9 399	13 532	9 285	9 077	8 757	10 002	7 779
Municipal waste (non-renewable)	8 979	12 977	18 303	24 558	25 551	25 958	25 943	26 688
<i>Memo: total waste***</i>	<i>25 778</i>	<i>35 546</i>	<i>50 637</i>	<i>60 760</i>	<i>63 510</i>	<i>64 003</i>	<i>65 175</i>	<i>64 369</i>

\* Primary energy used in the production of electricity and heat by main activity producers or autoproducers in electricity plants, CHP plants and heat plants (e.g. solar thermal power plants, geothermal power plants, etc.).

\*\* Primary energy used elsewhere than in transformation as described above (e.g. remote photovoltaic electricity production for households, heating of buildings/greenhouses by geothermal, etc.).

\*\*\* Includes municipal waste and industrial waste.

## Australia

## Contribution from renewable energies and energy from waste

	1990	1995	2000	2006	2007	2008	2009	2010e
<b>TPES (ktoe)</b>								
<b>TOTAL PRIMARY ENERGY SUPPLY</b>	<b>86 226</b>	<b>92 556</b>	<b>108 111</b>	<b>122 325</b>	<b>124 945</b>	<b>129 401</b>	<b>131 071</b>	<b>125 837</b>
% contribution of renewables and waste	6.1	6.2	6.0	5.5	5.6	5.7	5.6	5.2
<b>Renewables</b>	<b>5 074</b>	<b>5 531</b>	<b>6 353</b>	<b>6 643</b>	<b>6 859</b>	<b>7 243</b>	<b>7 290</b>	<b>6 504</b>
% contribution	5.9	6.0	5.9	5.4	5.5	5.6	5.6	5.2
Hydro	1 217	1 366	1 407	1 350	1 228	1 024	1 052	1 071
Geothermal (transformation*)	-	-	-	-	-	-	-	-
Geothermal (direct use**)	-	-	-	-	-	-	-	-
Solar photovoltaic (transformation*)	-	2	4	9	11	13	23	23
Solar thermal (transformation*)	-	-	-	-	-	-	-	-
Solar thermal (direct use**)	81	80	82	58	143	157	197	234
Tide/wave/ocean	-	-	-	-	-	-	-	-
Wind	-	1	5	147	225	266	327	327
Municipal waste (renewable)	-	-	-	-	-	-	-	-
Solid biofuels	3 776	4 067	4 718	4 759	4 863	5 248	5 066	4 344
Biogasoline	-	-	-	34	68	121	170	180
Biodiesels	-	-	-	19	43	40	68	72
Other liquid biofuels	-	-	-	-	-	-	-	-
Biogases	-	16	138	265	278	373	388	252
<b>Non-renewable waste</b>	<b>185</b>	<b>187</b>	<b>179</b>	<b>104</b>	<b>101</b>	<b>103</b>	<b>92</b>	<b>96</b>
% contribution	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1
Industrial waste	185	187	179	104	101	103	92	96
Municipal waste (non-renewable)	-	-	-	-	-	-	-	-
<i>Memo: total waste***</i>	<i>185</i>	<i>187</i>	<i>179</i>	<i>104</i>	<i>101</i>	<i>103</i>	<i>92</i>	<i>96</i>

## ELECTRICITY (GWh)

<b>TOTAL ELECTRICITY GENERATED</b>	<b>154 287</b>	<b>172 808</b>	<b>209 870</b>	<b>247 012</b>	<b>250 816</b>	<b>257 098</b>	<b>260 898</b>	<b>256 195</b>
% contribution of renewables and waste	9.7	9.6	8.4	7.9	7.6	7.0	7.3	7.3
<b>Renewables</b>	<b>14 898</b>	<b>16 634</b>	<b>17 596</b>	<b>19 487</b>	<b>19 028</b>	<b>17 960</b>	<b>19 071</b>	<b>18 650</b>
% contribution	9.7	9.6	8.4	7.9	7.6	7.0	7.3	7.3
Hydro (excl. pumped storage)	14 148	15 885	16 360	15 701	14 279	11 909	12 228	12 455
Geothermal	-	-	-	-	-	-	-	-
Solar photovoltaic	-	19	44	105	123	156	273	273
Solar thermal	-	-	-	1	4	4	4	4
Tide/wave/ocean	-	-	-	-	-	-	-	-
Wind	-	7	58	1 713	2 611	3 093	3 806	3 806
Municipal waste (renewable)	-	-	-	-	-	-	-	-
Solid biofuels	750	670	685	1 095	1 100	1 582	1 495	1 219
Liquid biofuels	-	-	-	-	-	-	-	-
Biogases	-	53	449	872	911	1 216	1 265	893
<b>Non-renewable waste</b>	-	-	-	-	-	-	-	-
% contribution	-	-	-	-	-	-	-	-
Industrial waste	-	-	-	-	-	-	-	-
Municipal waste (non-renewable)	-	-	-	-	-	-	-	-
<i>Memo: total waste***</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>

\* Primary energy used in the production of electricity and heat by main activity producers or autoproducers in electricity plants, CHP plants and heat plants (e.g. solar thermal power plants, geothermal power plants, etc.).

\*\* Primary energy used elsewhere than in transformation as described above (e.g. remote photovoltaic electricity production for households, heating of buildings/greenhouses by geothermal, etc.).

\*\*\* Includes municipal waste and industrial waste.

## Austria

## Contribution from renewable energies and energy from waste

	1990	1995	2000	2006	2007	2008	2009	2010e
<b>TPES (ktoe)</b>								
<b>TOTAL PRIMARY ENERGY SUPPLY</b>	<b>24 782</b>	<b>26 696</b>	<b>28 570</b>	<b>33 760</b>	<b>33 272</b>	<b>33 486</b>	<b>31 658</b>	<b>33 066</b>
% contribution of renewables and waste	21.0	22.8	23.9	23.6	25.6	27.2	29.6	27.6
<b>Renewables</b>	<b>5 013</b>	<b>5 852</b>	<b>6 572</b>	<b>7 461</b>	<b>8 029</b>	<b>8 479</b>	<b>8 808</b>	<b>8 605</b>
% contribution	20.2	21.9	23.0	22.1	24.1	25.3	27.8	26.0
Hydro	2 710	3 188	3 598	3 049	3 155	3 260	3 465	2 990
Geothermal (transformation*)	-	2 e	20	29	26	27	27	30
Geothermal (direct use**)	4	3 e	5	6	6	6	7	7
Solar photovoltaic (transformation*)	-	-	-	2	2	2	3	4
Solar thermal (transformation*)	-	-	-	-	-	-	-	-
Solar thermal (direct use**)	15	36	62	99	106	115	123	152
Tide/wave/ocean	-	-	-	-	-	-	-	-
Wind	-	-	6	151	175	173	169	174
Municipal waste (renewable)	22	35	41	133	131	130	172	159
Solid biofuels	2 257	2 557	2 792	3 525	3 894	4 153	4 127	4 335
Biogasoline	-	-	-	-	13	54	64	65
Biodiesels	-	-	-	245	279	274	354	365
Other liquid biofuels	6	11	17	62	87	111	132	125
Biogases	-	20	30	160	154	174	165	199
<b>Non-renewable waste</b>	<b>193</b>	<b>225</b>	<b>252</b>	<b>495</b>	<b>499</b>	<b>633</b>	<b>556</b>	<b>521</b>
% contribution	0.8	0.8	0.9	1.5	1.5	1.9	1.8	1.6
Industrial waste	157	167	185	355	370	494	412	385
Municipal waste (non-renewable)	36	58	67	140	129	139	144	136
<i>Memo: total waste***</i>	<i>215</i>	<i>261</i>	<i>293</i>	<i>628</i>	<i>630</i>	<i>763</i>	<i>729</i>	<i>680</i>

## ELECTRICITY (GWh)

<b>TOTAL ELECTRICITY GENERATED</b>	<b>49 296</b>	<b>55 179</b>	<b>59 878</b>	<b>61 714</b>	<b>62 199</b>	<b>64 079</b>	<b>65 620</b>	<b>67 016</b>
% contribution of renewables and waste	66.3	70.6	72.7	66.4	69.7	69.8	71.8	67.2
<b>Renewables</b>	<b>32 635</b>	<b>38 904</b>	<b>43 429</b>	<b>40 603</b>	<b>42 922</b>	<b>44 242</b>	<b>46 601</b>	<b>44 501</b>
% contribution	66.2	70.5	72.5	65.8	69.0	69.0	71.0	66.4
Hydro (excl. pumped storage)	31 509	37 067	41 836	35 452	36 689	37 902	40 293	34 765
Geothermal	-	-	-	3	2	2	2	2
Solar photovoltaic	-	1	3	22	24	28	35	43
Solar thermal	-	-	-	-	-	-	-	-
Tide/wave/ocean	-	-	-	-	-	-	-	-
Wind	-	1	67	1 752	2 037	2 011	1 967	2 019
Municipal waste (renewable)	10	15	30	362	379	331	301	305
Solid biofuels	1 116	1 766	1 422	2 536	3 180	3 330	3 322	6 680
Liquid biofuels	-	-	-	67	72	37	40	31
Biogases	-	54	71	409	539	601	641	656
<b>Non-renewable waste</b>	<b>54</b>	<b>72</b>	<b>130</b>	<b>402</b>	<b>425</b>	<b>472</b>	<b>495</b>	<b>502</b>
% contribution	0.1	0.1	0.2	0.7	0.7	0.7	0.8	0.7
Industrial waste	38	48	74	232	271	316	296	300
Municipal waste (non-renewable)	16	24	56	170	154	156	199	202
<i>Memo: total waste***</i>	<i>64</i>	<i>87</i>	<i>160</i>	<i>764</i>	<i>804</i>	<i>803</i>	<i>796</i>	<i>807</i>

\* Primary energy used in the production of electricity and heat by main activity producers or autoproducers in electricity plants, CHP plants and heat plants (e.g. solar thermal power plants, geothermal power plants, etc.).

\*\* Primary energy used elsewhere than in transformation as described above (e.g. remote photovoltaic electricity production for households, heating of buildings/greenhouses by geothermal, etc.).

\*\*\* Includes municipal waste and industrial waste.

## Belgium

## Contribution from renewable energies and energy from waste

	1990	1995	2000	2006	2007	2008	2009	2010e
<b>TPES (ktoe)</b>								
<b>TOTAL PRIMARY ENERGY SUPPLY</b>	<b>48 284</b>	<b>53 766</b>	<b>58 508</b>	<b>58 112</b>	<b>57 025</b>	<b>58 579</b>	<b>57 219</b>	<b>56 799</b>
% contribution of renewables and waste	1.6	1.7	1.8	3.4	3.8	4.2	5.2	5.3
<b>Renewables</b>	<b>481</b>	<b>528</b>	<b>638</b>	<b>1 365</b>	<b>1 524</b>	<b>1 820</b>	<b>2 240</b>	<b>2 324</b>
% contribution	1.0	1.0	1.1	2.3	2.7	3.1	3.9	4.1
Hydro	23	29	40	31	33	35	28	27
Geothermal (transformation*)	2	3	3	4	3	3	4	4
Geothermal (direct use**)	-	-	1	-	-	-	-	-
Solar photovoltaic (transformation*)	-	-	-	-	1	4	14	65
Solar thermal (transformation*)	-	-	-	-	-	-	-	-
Solar thermal (direct use**)	1	1	1	3	5	6	11	11
Tide/wave/ocean	-	-	-	-	-	-	-	-
Wind	1	1	1	31 e	42	55	86	109
Municipal waste (renewable)	112	129	141	184	135	202	237	237
Solid biofuels	336	354	423	973	1 083	1 287	1 318	1 318
Biogasoline	-	-	-	-	-	12	39	39
Biodiesels	-	-	-	-	90	88	287	298
Other liquid biofuels	-	-	-	58	51	42	90	90
Biogases	6	11	29	80	81	86	125	125
<b>Non-renewable waste</b>	<b>300</b>	<b>409</b>	<b>443</b>	<b>601</b>	<b>623</b>	<b>650</b>	<b>712</b>	<b>712</b>
% contribution	0.6	0.8	0.8	1.0	1.1	1.1	1.2	1.3
Industrial waste	131	215	261	197	390	291	324	324
Municipal waste (non-renewable)	169	194	182	404	234	359	389	389
<i>Memo: total waste***</i>	<i>412</i>	<i>538</i>	<i>584</i>	<i>785</i>	<i>758</i>	<i>852</i>	<i>949</i>	<i>949</i>

## ELECTRICITY (GWh)

	1990	1995	2000	2006	2007	2008	2009	2010e
<b>TOTAL ELECTRICITY GENERATED</b>	<b>70 292</b>	<b>73 516</b>	<b>82 773</b>	<b>84 348</b>	<b>87 526</b>	<b>83 583</b>	<b>89 796</b>	<b>95 084</b>
% contribution of renewables and waste	1.4	1.9	2.2	4.5	5.2	6.6	7.5	8.1
<b>Renewables</b>	<b>555</b>	<b>668</b>	<b>1 044</b>	<b>2 952</b>	<b>3 486</b>	<b>4 418</b>	<b>5 439</b>	<b>6 293</b>
% contribution	0.8	0.9	1.3	3.5	4.0	5.3	6.1	6.6
Hydro (excl. pumped storage)	266	338	460	359	389	410	328	316
Geothermal	-	-	-	-	-	-	-	-
Solar photovoltaic	-	-	-	2	6	42	166	757
Solar thermal	-	-	-	-	-	-	-	-
Tide/wave/ocean	-	-	-	-	-	-	-	-
Wind	7	9	16	366	491	637	996	1 271
Municipal waste (renewable)	140 e	187 e	306	319	297	370	463	463
Solid biofuels	135	121	164	1 406	1 818	2 485	2 657	2 657
Liquid biofuels	-	-	-	226	196	141	360	360
Biogases	7	13	98	274	289	333	469	469
<b>Non-renewable waste</b>	<b>441</b>	<b>721</b>	<b>768</b>	<b>880</b>	<b>1 041</b>	<b>1 064</b>	<b>1 313</b>	<b>1 406</b>
% contribution	0.6	1.0	0.9	1.0	1.2	1.3	1.5	1.5
Industrial waste	231	441	385	109	533	405	484	577
Municipal waste (non-renewable)	210 e	280 e	383	771	508	659	829	829
<i>Memo: total waste***</i>	<i>581 e</i>	<i>908 e</i>	<i>1 074</i>	<i>1 199</i>	<i>1 338</i>	<i>1 434</i>	<i>1 776</i>	<i>1 869</i>

\* Primary energy used in the production of electricity and heat by main activity producers or autoproducers in electricity plants, CHP plants and heat plants (e.g. solar thermal power plants, geothermal power plants, etc.).

\*\* Primary energy used elsewhere than in transformation as described above (e.g. remote photovoltaic electricity production for households, heating of buildings/greenhouses by geothermal, etc.).

\*\*\* Includes municipal waste and industrial waste.



## Canada

## Contribution from renewable energies and energy from waste

	1990	1995	2000	2006	2007	2008	2009	2010e
<b>TPES (ktoe)</b>								
<b>TOTAL PRIMARY ENERGY SUPPLY</b>	<b>208 565</b>	<b>230 772</b>	<b>251 450</b>	<b>268 517</b>	<b>271 995</b>	<b>266 541</b>	<b>254 120</b>	<b>255 322</b>
% contribution of renewables and waste	16.1	16.8	16.9	15.8	16.3	16.7	17.0	16.6
<b>Renewables</b>	<b>33 609</b>	<b>38 591</b>	<b>42 430</b>	<b>42 275</b>	<b>44 209</b>	<b>44 373</b>	<b>42 923</b>	<b>42 149</b>
% contribution	16.1	16.7	16.9	15.7	16.3	16.6	16.9	16.5
Hydro	25 519	28 889	30 832	30 560	31 880	32 189	31 291	30 229
Geothermal (transformation*)	-	-	-	-	-	-	-	-
Geothermal (direct use**)	-	-	-	-	-	-	-	-
Solar photovoltaic (transformation*)	-	-	1 e	2	2	3	9	9
Solar thermal (transformation*)	-	-	-	-	-	-	-	-
Solar thermal (direct use**)	-	-	-	-	-	-	-	-
Tide/wave/ocean	2	3	3	3	3	3	3	3
Wind	-	5	23	215	260	319	393	501
Municipal waste (renewable)	60	77	77	73	73	75	81	81
Solid biofuels	8 021	9 604	11 175	11 093	11 163	10 917	10 188	10 197
Biogasoline	-	-	133	138	661	690	774	946
Biodiesels	-	-	-	-	1	11	17	17
Other liquid biofuels	-	-	-	-	-	-	-	-
Biogases	7	12	186	192	167	167	167	167
<b>Non-renewable waste</b>	<b>70</b>	<b>128</b>	<b>117</b>	<b>128</b>	<b>128</b>	<b>143</b>	<b>152</b>	<b>170</b>
% contribution	0.0	0.1	0.0	0.0	0.0	0.1	0.1	0.1
Industrial waste	37	86	76	89	89	103	109	126
Municipal waste (non-renewable)	32	42	42	39	39	40	44	44
<i>Memo: total waste***</i>	<i>130</i>	<i>205</i>	<i>194</i>	<i>202</i>	<i>202</i>	<i>218</i>	<i>234</i>	<i>251</i>

**ELECTRICITY (GWh)**

<b>TOTAL ELECTRICITY GENERATED</b>	<b>482 041</b>	<b>560 005</b>	<b>605 596</b>	<b>615 856</b>	<b>641 991</b>	<b>640 940</b>	<b>603 123</b>	<b>597 986</b>
% contribution of renewables and waste	62.4	61.0	60.6	59.5	59.5	60.1	62.2	60.9
<b>Renewables</b>	<b>300 691</b>	<b>341 626</b>	<b>366 993</b>	<b>366 559</b>	<b>382 174</b>	<b>385 153</b>	<b>375 211</b>	<b>364 385</b>
% contribution	62.4	61.0	60.6	59.5	59.5	60.1	62.2	60.9
Hydro (excl. pumped storage)	296 737	335 923	358 509	355 344	370 694	374 296	363 849	351 497
Geothermal	-	-	-	-	-	-	-	-
Solar photovoltaic	-	4	16 e	21	26	35	102	102
Solar thermal	-	-	-	-	-	-	-	-
Tide/wave/ocean	26	33	32	31	30	33	33	33
Wind	-	59	264	2 500	3 024	3 706	4 573	5 824
Municipal waste (renewable)	76 e	99 e	99 e	102	102 e	107 e	107 e	111
Solid biofuels	3 829	5 465	7 365	7 830	7 528	6 206	5 777	6 018
Liquid biofuels	-	-	-	-	-	-	-	-
Biogases	23	43	708	731	770	770	770	800
<b>Non-renewable waste</b>	<b>41</b>	<b>54</b>	<b>54</b>	<b>55</b>	<b>55</b>	<b>57</b>	<b>57</b>	<b>59</b>
% contribution	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Industrial waste	-	-	-	-	-	-	-	-
Municipal waste (non-renewable)	41 e	54 e	54 e	55	55 e	57 e	57 e	59
<i>Memo: total waste***</i>	<i>117 e</i>	<i>153 e</i>	<i>153 e</i>	<i>157</i>	<i>157 e</i>	<i>164 e</i>	<i>164 e</i>	<i>170</i>

\* Primary energy used in the production of electricity and heat by main activity producers or autoproducers in electricity plants, CHP plants and heat plants (e.g. solar thermal power plants, geothermal power plants, etc.).

\*\* Primary energy used elsewhere than in transformation as described above (e.g. remote photovoltaic electricity production for households, heating of buildings/greenhouses by geothermal, etc.).

\*\*\* Includes municipal waste and industrial waste.

## Chile

## Contribution from renewable energies and energy from waste

	1990	1995	2000	2006	2007	2008	2009	2010e
<b>TPES (ktoe)</b>								
<b>TOTAL PRIMARY ENERGY SUPPLY</b>	<b>13 553</b>	<b>17 886</b>	<b>24 703</b>	<b>28 274</b>	<b>28 532</b>	<b>29 289</b>	<b>28 784</b>	<b>31 255</b>
% contribution of renewables and waste	25.4	28.2	23.7	24.7	23.6	23.7	25.1	22.7
<b>Renewables</b>	<b>3 443</b>	<b>5 045</b>	<b>5 848</b>	<b>6 995</b>	<b>6 721</b>	<b>6 945</b>	<b>7 234</b>	<b>7 097</b>
% contribution	25.4	28.2	23.7	24.7	23.6	23.7	25.1	22.7
Hydro	768	1 584	1 592	2 505	1 989	2 081	2 175	1 874
Geothermal (transformation*)	-	-	-	-	-	-	-	-
Geothermal (direct use**)	-	-	-	-	-	-	-	-
Solar photovoltaic (transformation*)	-	-	-	-	-	-	-	-
Solar thermal (transformation*)	-	-	-	-	-	-	-	-
Solar thermal (direct use**)	-	-	-	-	-	-	-	-
Tide/wave/ocean	-	-	-	-	-	-	-	-
Wind	-	-	-	1	1	3	7	29
Municipal waste (renewable)	-	-	-	-	-	-	-	-
Solid biofuels	2 658	3 427	4 251	4 490	4 731	4 860	5 045	5 188
Biogasoline	-	-	-	-	-	-	-	-
Biodiesels	-	-	-	-	-	-	-	-
Other liquid biofuels	-	-	-	-	-	-	-	-
Biogases	18	34	5	-	-	1	7	7
<b>Non-renewable waste</b>	-	-	-	-	-	-	-	-
% contribution	-	-	-	-	-	-	-	-
Industrial waste	-	-	-	-	-	-	-	-
Municipal waste (non-renewable)	-	-	-	-	-	-	-	-
<i>Memo: total waste***</i>	-	-	-	-	-	-	-	-

**ELECTRICITY (GWh)**

<b>TOTAL ELECTRICITY GENERATED</b>	<b>18 372</b>	<b>28 027</b>	<b>40 078</b>	<b>55 320</b>	<b>58 509</b>	<b>59 704</b>	<b>60 722</b>	<b>62 453</b>
% contribution of renewables and waste	53.8	72.4	48.5	55.3	44.2	45.7	48.8	42.3
<b>Renewables</b>	<b>9 891</b>	<b>20 293</b>	<b>19 457</b>	<b>30 567</b>	<b>25 835</b>	<b>27 314</b>	<b>29 649</b>	<b>26 430</b>
% contribution	53.8	72.4	48.5	55.3	44.2	45.7	48.8	42.3
Hydro (excl. pumped storage)	8 928	18 414	18 516	29 129	23 130	24 193	25 296	21 789
Geothermal	-	-	-	-	-	-	-	-
Solar photovoltaic	-	-	-	-	-	-	-	-
Solar thermal	-	-	-	-	-	-	-	-
Tide/wave/ocean	-	-	-	-	-	-	-	-
Wind	-	-	-	7	9	38	79	332
Municipal waste (renewable)	-	-	-	-	-	-	-	-
Solid biofuels	963	1 879	941	1 431	2 696	3 083	4 274	4 309
Liquid biofuels	-	-	-	-	-	-	-	-
Biogases	-	-	-	-	-	-	-	-
<b>Non-renewable waste</b>	-	-	-	-	-	-	-	-
% contribution	-	-	-	-	-	-	-	-
Industrial waste	-	-	-	-	-	-	-	-
Municipal waste (non-renewable)	-	-	-	-	-	-	-	-
<i>Memo: total waste***</i>	-	-	-	-	-	-	-	-

\* Primary energy used in the production of electricity and heat by main activity producers or autoproducers in electricity plants, CHP plants and heat plants (e.g. solar thermal power plants, geothermal power plants, etc.).

\*\* Primary energy used elsewhere than in transformation as described above (e.g. remote photovoltaic electricity production for households, heating of buildings/greenhouses by geothermal, etc.).

\*\*\* Includes municipal waste and industrial waste.

## Czech Republic

## Contribution from renewable energies and energy from waste

	1990	1995	2000	2006	2007	2008	2009	2010e
<b>TPES (ktoe)</b>								
<b>TOTAL PRIMARY ENERGY SUPPLY</b>	<b>49 563</b>	<b>41 471</b>	<b>40 979</b>	<b>45 841</b>	<b>45 778</b>	<b>44 630</b>	<b>41 990</b>	<b>42 334</b>
% contribution of renewables and waste	1.8	2.9	3.7	4.6	5.0	5.4	6.2	6.8
<b>Renewables</b>	<b>908</b>	<b>1 177</b>	<b>1 341</b>	<b>1 933</b>	<b>2 139</b>	<b>2 211</b>	<b>2 426</b>	<b>2 722</b>
% contribution	1.8	2.8	3.3	4.2	4.7	5.0	5.8	6.4
Hydro	100	172	151	219	180	174	209	240
Geothermal (transformation*)	-	-	-	-	-	-	-	-
Geothermal (direct use**)	-	-	-	-	-	-	-	-
Solar photovoltaic (transformation*)	-	-	-	-	-	1	8	53
Solar thermal (transformation*)	-	-	-	-	-	-	-	-
Solar thermal (direct use**)	-	-	-	3	4	5	5	9
Tide/wave/ocean	-	-	-	-	-	-	-	-
Wind	-	-	-	4	11	21	25	29
Municipal waste (renewable)	-	-	44	57	57	57	54	63
Solid biofuels	808	955	1 046	1 568	1 782	1 753	1 801	1 923
Biogasoline	-	-	-	1	1	34	59	59
Biodiesels	-	16	64	17	29	75	136	175
Other liquid biofuels	-	-	-	-	-	-	-	-
Biogases	-	34	36	63	76	90	130	172
<b>Non-renewable waste</b>	<b>..</b>	<b>28</b>	<b>176</b>	<b>155</b>	<b>165</b>	<b>187</b>	<b>192</b>	<b>172</b>
% contribution	-	0.1	0.4	0.3	0.4	0.4	0.5	0.4
Industrial waste	..	28	132	117	127	144	157	130
Municipal waste (non-renewable)	-	-	44	38	38	43	36	42
<i>Memo: total waste***</i>	..	28	220	212	222	244	246	234

## ELECTRICITY (GWh)

<b>TOTAL ELECTRICITY GENERATED</b>	<b>62 271</b>	<b>60 575</b>	<b>72 911</b>	<b>83 654</b>	<b>87 764</b>	<b>83 166</b>	<b>81 697</b>	<b>85 322</b>
% contribution of renewables and waste	1.9	4.0	3.4	4.2	3.9	4.5	5.7	6.9
<b>Renewables</b>	<b>1 161</b>	<b>2 407</b>	<b>2 277</b>	<b>3 520</b>	<b>3 410</b>	<b>3 731</b>	<b>4 654</b>	<b>5 900</b>
% contribution	1.9	4.0	3.1	4.2	3.9	4.5	5.7	6.9
Hydro (excl. pumped storage)	1 161	2 002	1 758	2 550	2 089	2 024	2 429	2 793
Geothermal	-	-	-	-	-	-	-	-
Solar photovoltaic	-	-	-	1	2	13	89	616
Solar thermal	-	-	-	-	-	-	-	-
Tide/wave/ocean	-	-	-	-	-	-	-	-
Wind	-	-	-	49	125	245	288	336
Municipal waste (renewable)	-	-	2	12	11	11	11	44
Solid biofuels	..	302	382	731	968	1 171	1 396	1 512
Liquid biofuels	..	-	-	-	-	-	-	-
Biogases	..	103	135	177	215	267	441	599
<b>Non-renewable waste</b>	<b>..</b>	<b>16</b>	<b>204</b>	<b>7</b>	<b>8</b>	<b>10</b>	<b>9</b>	<b>16</b>
% contribution	-	0.0	0.3	0.0	0.0	0.0	0.0	0.0
Industrial waste	..	16	201	-	-	2	2	1
Municipal waste (non-renewable)	-	-	3	7	8	8	7	15
<i>Memo: total waste***</i>	..	16	206	19	19	21	20	60

\* Primary energy used in the production of electricity and heat by main activity producers or autoproducers in electricity plants, CHP plants and heat plants (e.g. solar thermal power plants, geothermal power plants, etc.).

\*\* Primary energy used elsewhere than in transformation as described above (e.g. remote photovoltaic electricity production for households, heating of buildings/greenhouses by geothermal, etc.).

\*\*\* Includes municipal waste and industrial waste.

## Denmark

## Contribution from renewable energies and energy from waste

	1990	1995	2000	2006	2007	2008	2009	2010e
<b>TPES (ktoe)</b>								
<b>TOTAL PRIMARY ENERGY SUPPLY</b>	<b>17 363</b>	<b>19 392</b>	<b>18 634</b>	<b>20 251</b>	<b>19 758</b>	<b>19 217</b>	<b>18 605</b>	<b>19 683</b>
% contribution of renewables and waste	6.9	7.9	11.4	16.2	18.3	18.9	19.5	20.7
<b>Renewables</b>	<b>1 080</b>	<b>1 324</b>	<b>1 825</b>	<b>2 904</b>	<b>3 220</b>	<b>3 226</b>	<b>3 242</b>	<b>3 698</b>
% contribution	6.2	6.8	9.8	14.3	16.3	16.8	17.4	18.8
Hydro	2	3	3	2	2	2	2	2
Geothermal (transformation*)	2 e	2 e	3 e	14	14	12	12	10
Geothermal (direct use**)	-	-	-	-	-	-	-	-
Solar photovoltaic (transformation*)	-	-	-	-	-	-	-	-
Solar thermal (transformation*)	-	-	1	1	1	2	3	3
Solar thermal (direct use**)	2	5	7	9	10	11	11	14
Tide/wave/ocean	-	-	-	-	-	-	-	-
Wind	52	101	365	525	617	596	578	672
Municipal waste (renewable)	251	332	427	540	558	573	542	539
Solid biofuels	752	839	950	1 716	1 918	1 931	1 984	2 337
Biogasoline	-	-	-	4	6	5	5	8
Biodiesels	-	-	-	-	-	-	4	4
Other liquid biofuels	-	-	-	-	-	1	1	1
Biogases	18	42	70	94	93	94	100	106
<b>Non-renewable waste</b>	<b>119</b>	<b>215</b>	<b>299</b>	<b>378</b>	<b>391</b>	<b>401</b>	<b>380</b>	<b>378</b>
% contribution	0.7	1.1	1.6	1.9	2.0	2.1	2.0	1.9
Industrial waste	-	-	-	-	-	-	-	-
Municipal waste (non-renewable)	119	215	299	378	391	401	380	378
<i>Memo: total waste***</i>	<i>370</i>	<i>547</i>	<i>726</i>	<i>918</i>	<i>949</i>	<i>974</i>	<i>922</i>	<i>918</i>

**ELECTRICITY (GWh)**

<b>TOTAL ELECTRICITY GENERATED</b>	<b>25 982</b>	<b>36 759</b>	<b>36 053</b>	<b>45 611</b>	<b>39 316</b>	<b>36 638</b>	<b>36 364</b>	<b>38 568</b>
% contribution of renewables and waste	3.3	5.8	17.0	22.0	28.2	29.9	29.6	33.5
<b>Renewables</b>	<b>828</b>	<b>1 886</b>	<b>5 619</b>	<b>9 271</b>	<b>10 372</b>	<b>10 176</b>	<b>10 052</b>	<b>12 232</b>
% contribution	3.2	5.1	15.6	20.3	26.4	27.8	27.6	31.7
Hydro (excl. pumped storage)	28	30	30	23	28	26	19	21
Geothermal	-	-	-	-	-	-	-	-
Solar photovoltaic	-	-	1	2	2	3	4	4
Solar thermal	-	-	-	-	-	-	-	-
Tide/wave/ocean	-	-	-	-	-	-	-	-
Wind	610	1 177	4 241	6 108	7 171	6 928	6 721	7 809
Municipal waste (renewable)	42 e	361	727	1 076	1 039	1 117	1 020	990
Solid biofuels	108	208	411	1 778	1 828	1 804	1 963	3 068
Liquid biofuels	-	-	-	-	-	-	-	-
Biogases	40	110	209	284	304	298	325	340
<b>Non-renewable waste</b>	<b>20</b>	<b>234</b>	<b>509</b>	<b>754</b>	<b>728</b>	<b>783</b>	<b>715</b>	<b>695</b>
% contribution	0.1	0.6	1.4	1.7	1.9	2.1	2.0	1.8
Industrial waste	-	-	-	-	-	-	-	-
Municipal waste (non-renewable)	20 e	234	509	754	728	783	715	695
<i>Memo: total waste***</i>	<i>62 e</i>	<i>595</i>	<i>1 236</i>	<i>1 830</i>	<i>1 767</i>	<i>1 900</i>	<i>1 735</i>	<i>1 685</i>

\* Primary energy used in the production of electricity and heat by main activity producers or autoproducers in electricity plants, CHP plants and heat plants (e.g. solar thermal power plants, geothermal power plants, etc.).

\*\* Primary energy used elsewhere than in transformation as described above (e.g. remote photovoltaic electricity production for households, heating of buildings/greenhouses by geothermal, etc.).

\*\*\* Includes municipal waste and industrial waste.

## Estonia

## Contribution from renewable energies and energy from waste

	1990	1995	2000	2006	2007	2008	2009	2010e
<b>TPES (ktoe)</b>								
<b>TOTAL PRIMARY ENERGY SUPPLY</b>	<b>9 911</b>	<b>5 038</b>	<b>4 715</b>	<b>5 038</b>	<b>5 624</b>	<b>5 440</b>	<b>4 748</b>	<b>5 473</b>
% contribution of renewables and waste	1.9	6.7	10.9	10.5	10.7	11.9	15.1	14.4
<b>Renewables</b>	<b>188</b>	<b>336</b>	<b>513</b>	<b>531</b>	<b>602</b>	<b>646</b>	<b>716</b>	<b>786</b>
% contribution	1.9	6.7	10.9	10.5	10.7	11.9	15.1	14.4
Hydro	-	-	-	1	2	2	3	2
Geothermal (transformation*)	-	-	-	-	-	-	-	-
Geothermal (direct use**)	-	-	-	-	-	-	-	-
Solar photovoltaic (transformation*)	-	-	-	-	-	-	-	-
Solar thermal (transformation*)	-	-	-	-	-	-	-	-
Solar thermal (direct use**)	-	-	-	-	-	-	-	-
Tide/wave/ocean	-	-	-	-	-	-	-	-
Wind	-	-	-	7	8	11	17	24
Municipal waste (renewable)	-	-	-	-	-	-	-	-
Solid biofuels	188	334	511	519	588	629	695	757
Biogasoline	-	-	-	-	-	-	-	-
Biodiesels	-	-	-	-	-	-	-	-
Other liquid biofuels	-	-	-	-	-	-	-	-
Biogases	-	2	2	4	4	3	2	3
<b>Non-renewable waste</b>	-	-	-	-	-	-	-	-
% contribution	-	-	-	-	-	-	-	-
Industrial waste	-	-	-	-	-	-	-	-
Municipal waste (non-renewable)	-	-	-	-	-	-	-	-
<i>Memo: total waste***</i>	-	-	-	-	-	-	-	-

## ELECTRICITY (GWh)

<b>TOTAL ELECTRICITY GENERATED</b>	<b>17 392</b>	<b>8 788</b>	<b>8 509</b>	<b>9 732</b>	<b>12 190</b>	<b>10 581</b>	<b>8 779</b>	<b>12 964</b>
% contribution of renewables and waste	-	0.1	0.2	1.3	1.2	1.9	6.2	8.1
<b>Renewables</b>	-	<b>8</b>	<b>18</b>	<b>130</b>	<b>145</b>	<b>197</b>	<b>541</b>	<b>1 047</b>
% contribution	-	0.1	0.2	1.3	1.2	1.9	6.2	8.1
Hydro (excl. pumped storage)	-	2	5	14	21	28	32	27
Geothermal	-	-	-	-	-	-	-	-
Solar photovoltaic	-	-	-	-	-	-	-	-
Solar thermal	-	-	-	-	-	-	-	-
Tide/wave/ocean	-	-	-	-	-	-	-	-
Wind	-	-	-	76	91	133	195	277
Municipal waste (renewable)	-	-	-	-	-	-	-	-
Solid biofuels	-	6	13	26	20	27	307	733
Liquid biofuels	-	-	-	-	-	-	-	-
Biogases	-	-	-	14	13	9	7	10
<b>Non-renewable waste</b>	-	-	-	-	-	-	-	-
% contribution	-	-	-	-	-	-	-	-
Industrial waste	-	-	-	-	-	-	-	-
Municipal waste (non-renewable)	-	-	-	-	-	-	-	-
<i>Memo: total waste***</i>	-	-	-	-	-	-	-	-

\* Primary energy used in the production of electricity and heat by main activity producers or autoproducers in electricity plants, CHP plants and heat plants (e.g. solar thermal power plants, geothermal power plants, etc.).

\*\* Primary energy used elsewhere than in transformation as described above (e.g. remote photovoltaic electricity production for households, heating of buildings/greenhouses by geothermal, etc.).

\*\*\* Includes municipal waste and industrial waste.

## Finland

## Contribution from renewable energies and energy from waste

	1990	1995	2000	2006	2007	2008	2009	2010e
<b>TPES (ktoe)</b>								
<b>TOTAL PRIMARY ENERGY SUPPLY</b>	<b>28 381</b>	<b>28 920</b>	<b>32 252</b>	<b>37 262</b>	<b>36 775</b>	<b>35 284</b>	<b>33 170</b>	<b>35 611</b>
% contribution of renewables and waste	19.4	21.2	24.6	23.6	23.8	26.0	24.2	25.3
<b>Renewables</b>	<b>5 489</b>	<b>6 127</b>	<b>7 723</b>	<b>8 680</b>	<b>8 637</b>	<b>9 070</b>	<b>7 892</b>	<b>8 880</b>
% contribution	19.3	21.2	23.9	23.3	23.5	25.7	23.8	24.9
Hydro	934	1 112	1 261	988	1 219	1 472	1 091	1 108
Geothermal (transformation*)	-	-	-	-	-	-	-	-
Geothermal (direct use**)	-	-	-	-	-	-	-	-
Solar photovoltaic (transformation*)	-	-	-	-	-	-	-	1
Solar thermal (transformation*)	-	-	-	-	-	-	-	-
Solar thermal (direct use**)	-	-	-	1	1	1	1	1
Tide/wave/ocean	-	-	-	-	-	-	-	-
Wind	-	1	7	13	16	22	24	25
Municipal waste (renewable)	11	7	27	91	119	141	134	134
Solid biofuels	4 544	5 007	6 409	7 549	7 238	7 324	6 437	7 395
Biogasoline	-	-	-	1	1	66	77	76
Biodiesels	-	-	-	-	-	- 1	87	100
Other liquid biofuels	-	-	-	-	-	-	-	-
Biogases	-	-	18	36	42	45	41	42
<b>Non-renewable waste</b>	<b>7</b>	<b>5</b>	<b>225</b>	<b>95</b>	<b>99</b>	<b>116</b>	<b>143</b>	<b>144</b>
% contribution	0.0	0.0	0.7	0.3	0.3	0.3	0.4	0.4
Industrial waste	-	-	207	53	47	48	44	45
Municipal waste (non-renewable)	7	5	18	43	52	68	99	99
<i>Memo: total waste***</i>	<i>19</i>	<i>12</i>	<i>252</i>	<i>186</i>	<i>218</i>	<i>258</i>	<i>277</i>	<i>278</i>

## ELECTRICITY (GWh)

<b>TOTAL ELECTRICITY GENERATED</b>	<b>54 377</b>	<b>64 035</b>	<b>69 991</b>	<b>82 304</b>	<b>81 246</b>	<b>77 436</b>	<b>72 062</b>	<b>80 354</b>
% contribution of renewables and waste	29.5	30.5	33.7	27.4	30.1	36.1	30.4	30.1
<b>Renewables</b>	<b>16 015</b>	<b>19 545</b>	<b>23 273</b>	<b>22 424</b>	<b>24 303</b>	<b>27 815</b>	<b>21 691</b>	<b>23 947</b>
% contribution	29.5	30.5	33.3	27.2	29.9	35.9	30.1	29.8
Hydro (excl. pumped storage)	10 859	12 925	14 660	11 494	14 177	17 112	12 686	12 882
Geothermal	-	-	-	-	-	-	-	-
Solar photovoltaic	-	1	2	3	4	4	5	6
Solar thermal	-	-	-	-	-	-	-	-
Tide/wave/ocean	-	-	-	-	-	-	-	-
Wind	-	11	78	156	188	261	277	291
Municipal waste (renewable)	-	-	35 e	205	287	294	290	290
Solid biofuels	5 156	6 608	8 476	10 539	9 618	10 057	8 402	10 448
Liquid biofuels	-	-	-	-	-	-	-	-
Biogases	-	-	22	27	29	87	31	30
<b>Non-renewable waste</b>	<b>-</b>	<b>-</b>	<b>348</b>	<b>136</b>	<b>168</b>	<b>175</b>	<b>223</b>	<b>215</b>
% contribution	-	-	0.5	0.2	0.2	0.2	0.3	0.3
Industrial waste	-	-	324	46	47	39	33	35
Municipal waste (non-renewable)	-	-	24 e	90	121	136	190	180
<i>Memo: total waste***</i>	<i>-</i>	<i>-</i>	<i>383 e</i>	<i>341</i>	<i>455</i>	<i>469</i>	<i>513</i>	<i>505</i>

\* Primary energy used in the production of electricity and heat by main activity producers or autoproducers in electricity plants, CHP plants and heat plants (e.g. solar thermal power plants, geothermal power plants, etc.).

\*\* Primary energy used elsewhere than in transformation as described above (e.g. remote photovoltaic electricity production for households, heating of buildings/greenhouses by geothermal, etc.).

\*\*\* Includes municipal waste and industrial waste.

## France

## Contribution from renewable energies and energy from waste

	1990	1995	2000	2006	2007	2008	2009	2010e
<b>TPES (ktoe)</b>								
<b>TOTAL PRIMARY ENERGY SUPPLY</b>	<b>223 889</b>	<b>236 664</b>	<b>251 867</b>	<b>267 377</b>	<b>264 389</b>	<b>267 200</b>	<b>256 217</b>	<b>264 230</b>
% contribution of renewables and waste	7.1	7.5	6.7	6.5	7.0	7.8	8.2	8.4
<b>Renewables</b>	<b>15 219</b>	<b>17 025</b>	<b>15 888</b>	<b>16 341</b>	<b>17 461</b>	<b>19 624</b>	<b>19 792</b>	<b>20 954</b>
% contribution	6.8	7.2	6.3	6.1	6.6	7.3	7.7	7.9
Hydro	4 627	6 272	5 774	4 830	4 997	5 485	4 914	5 400
Geothermal (transformation*)	-	-	-	-	-	-	-	-
Geothermal (direct use**)	110	132	126	114	109	116	111	90
Solar photovoltaic (transformation*)	-	-	-	1	2	4	15	56
Solar thermal (transformation*)	-	-	-	-	-	-	-	-
Solar thermal (direct use**)	19	20	17	28	35	44	52	59
Tide/wave/ocean	49	49	49	45	45	44	43	45
Wind	-	-	7	188	349	489	679	829
Municipal waste (renewable)	573	721	928	1 099	1 136	1 169	1 207	1 196
Solid biofuels	9 767	9 587	8 432	8 940	8 925	9 549	9 793	10 477
Biogasoline	-	24	58	104	279	410	392	350
Biodiesels	-	138	279	623	1 168	1 860	2 062	1 842
Other liquid biofuels	-	-	-	-	-	-	-	-
Biogases	72	82	218	368	418	453	526	608
<b>Non-renewable waste</b>	<b>573</b>	<b>721</b>	<b>928</b>	<b>1 099</b>	<b>1 136</b>	<b>1 169</b>	<b>1 207</b>	<b>1 196</b>
% contribution	0.3	0.3	0.4	0.4	0.4	0.4	0.5	0.5
Industrial waste	-	-	-	-	-	-	-	-
Municipal waste (non-renewable)	573	721	928	1 099	1 136	1 169	1 207	1 196
<i>Memo: total waste***</i>	<i>1 146</i>	<i>1 442</i>	<i>1 857</i>	<i>2 199</i>	<i>2 272</i>	<i>2 339</i>	<i>2 415</i>	<i>2 392</i>

**ELECTRICITY (GWh)**

<b>TOTAL ELECTRICITY GENERATED</b>	<b>417 206</b>	<b>491 068</b>	<b>536 054</b>	<b>569 328</b>	<b>564 354</b>	<b>569 510</b>	<b>537 410</b>	<b>567 637</b>
% contribution of renewables and waste	13.4	15.4	13.3	11.2	12.1	13.3	13.4	14.1
<b>Renewables</b>	<b>55 786</b>	<b>75 321</b>	<b>70 272</b>	<b>62 246</b>	<b>66 484</b>	<b>74 007</b>	<b>69 802</b>	<b>77 912</b>
% contribution	13.4	15.3	13.1	10.9	11.8	13.0	13.0	13.7
Hydro (excl. pumped storage)	53 804	72 925	67 137	56 161	58 104	63 774	57 138	62 794
Geothermal	-	-	-	-	-	-	-	-
Solar photovoltaic	-	1	5	13	18	42	171	653
Solar thermal	-	-	-	-	-	-	-	-
Tide/wave/ocean	571	568	573	519	519	513	497	521
Wind	-	5	77	2 182	4 060	5 689	7 891	9 643
Municipal waste (renewable)	222 e	371	1 081	1 594	1 793	1 881	1 980	2 075
Solid biofuels	1 116	1 368	1 090	1 250	1 364	1 408	1 279	1 340
Liquid biofuels	-	-	-	-	-	-	-	-
Biogases	73	83	309	527	626	700	846	886
<b>Non-renewable waste</b>	<b>221</b>	<b>371</b>	<b>1 081</b>	<b>1 594</b>	<b>1 793</b>	<b>1 881</b>	<b>1 980</b>	<b>2 075</b>
% contribution	0.1	0.1	0.2	0.3	0.3	0.3	0.4	0.4
Industrial waste	-	-	-	-	-	-	-	-
Municipal waste (non-renewable)	221 e	371	1 081	1 594	1 793	1 881	1 980	2 075
<i>Memo: total waste***</i>	<i>443 e</i>	<i>742</i>	<i>2 162</i>	<i>3 188</i>	<i>3 586</i>	<i>3 762</i>	<i>3 960</i>	<i>4 150</i>

\* Primary energy used in the production of electricity and heat by main activity producers or autoproducers in electricity plants, CHP plants and heat plants (e.g. solar thermal power plants, geothermal power plants, etc.).

\*\* Primary energy used elsewhere than in transformation as described above (e.g. remote photovoltaic electricity production for households, heating of buildings/greenhouses by geothermal, etc.).

\*\*\* Includes municipal waste and industrial waste.

## Germany

## Contribution from renewable energies and energy from waste

	1990	1995	2000	2006	2007	2008	2009	2010e
<b>TPES (ktoe)</b>								
<b>TOTAL PRIMARY ENERGY SUPPLY</b>	<b>351 404</b>	<b>337 053</b>	<b>337 294</b>	<b>341 223</b>	<b>331 794</b>	<b>334 704</b>	<b>318 529</b>	<b>331 501</b>
% contribution of renewables and waste	1.8	2.2	3.2	6.1	8.6	8.7	9.8	10.4
<b>Renewables</b>	<b>5 320</b>	<b>6 095</b>	<b>9 093</b>	<b>19 851</b>	<b>25 923</b>	<b>26 578</b>	<b>27 691</b>	<b>30 714</b>
% contribution	1.5	1.8	2.7	5.8	7.8	7.9	8.7	9.3
Hydro	1 499	1 873	1 869	1 714	1 798	1 801	1 605	1 634
Geothermal (transformation*)	-	-	-	28 e	28	44	66	74
Geothermal (direct use**)	7	123	123	153 e	184	202	407	456
Solar photovoltaic (transformation*)	-	1	5	191	264	380	566	1 032
Solar thermal (transformation*)	-	-	-	-	-	-	-	-
Solar thermal (direct use**)	11	38	110	281	315	355	407	447
Tide/wave/ocean	-	-	-	-	-	-	-	-
Wind	6	147 e	804	2 641	3 415	3 489	3 323	3 139
Municipal waste (renewable)	561	588	709	919	2 466	2 461	2 045	2 278
Solid biofuels	2 943	2 961	4 691	8 473	9 804	10 398	11 215	12 480
Biogasoline	-	-	-	328	292	392	571	732
Biodiesels	-	-	-	838	1 245	1 370	2 017	2 030
Other liquid biofuels	-	31	225	2 621	2 435	1 992	1 257	1 320
Biogases	292	333	557	1 665	3 677	3 694	4 213	5 094
<b>Non-renewable waste</b>	<b>999</b>	<b>1 436</b>	<b>1 681</b>	<b>937</b>	<b>2 757</b>	<b>2 532</b>	<b>3 545</b>	<b>3 912</b>
% contribution	0.3	0.4	0.5	0.3	0.8	0.8	1.1	1.2
Industrial waste	490	901	1 028	18	291	71	1 500	1 633
Municipal waste (non-renewable)	509	536	653	919	2 466	2 461	2 045	2 278
<i>Memo: total waste***</i>	<i>1 561</i>	<i>2 024</i>	<i>2 390</i>	<i>1 856</i>	<i>5 223</i>	<i>4 994</i>	<i>5 590</i>	<i>6 190</i>

## ELECTRICITY (GWh)

<b>TOTAL ELECTRICITY GENERATED</b>	<b>547 650</b>	<b>532 814</b>	<b>572 313</b>	<b>629 388</b>	<b>629 546</b>	<b>631 211</b>	<b>586 414</b>	<b>614 069</b>
% contribution of renewables and waste	4.1	5.9	7.2	11.8	14.7	15.1	17.0	17.6
<b>Renewables</b>	<b>19 093</b>	<b>25 932</b>	<b>35 475</b>	<b>70 487</b>	<b>87 561</b>	<b>90 311</b>	<b>93 991</b>	<b>101 125</b>
% contribution	3.5	4.9	6.2	11.2	13.9	14.3	16.0	16.5
Hydro (excl. pumped storage)	17 426	21 780	21 732	19 931	20 903	20 942	18 660	18 996
Geothermal	-	-	-	-	-	18	19	27
Solar photovoltaic	1	7	60	2 220	3 075	4 420	6 579	12 000
Solar thermal	-	-	-	-	-	-	-	-
Tide/wave/ocean	-	-	-	-	-	-	-	-
Wind	71	1 712	9 352	30 710	39 713	40 574	38 639	36 500
Municipal waste (renewable)	1 219	1 348	1 844	3 639	4 521	4 506	4 166	4 462
Solid biofuels	129	496	804	6 518	8 374	8 960	10 881	12 000
Liquid biofuels	-	-	-	1 314	2 624	2 582	2 484	2 060
Biogases	247	589	1 683	6 155	8 351	8 309	12 563	15 080
<b>Non-renewable waste</b>	<b>3 591</b>	<b>5 263</b>	<b>5 790</b>	<b>3 709</b>	<b>5 204</b>	<b>4 862</b>	<b>5 468</b>	<b>6 833</b>
% contribution	0.7	1.0	1.0	0.6	0.8	0.8	0.9	1.1
Industrial waste	2 373	3 915	3 946	70	683	356	1 302	2 371
Municipal waste (non-renewable)	1 218	1 348	1 844	3 639	4 521	4 506	4 166	4 462
<i>Memo: total waste***</i>	<i>4 810</i>	<i>6 611</i>	<i>7 634</i>	<i>7 348</i>	<i>9 725</i>	<i>9 368</i>	<i>9 634</i>	<i>11 295</i>

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\*\* Primary energy used elsewhere than in transformation as described above (e.g. remote photovoltaic electricity production for households, heating of buildings/greenhouses by geothermal, etc.).

\*\*\* Includes municipal waste and industrial waste.



## Greece

## Contribution from renewable energies and energy from waste

	1990	1995	2000	2006	2007	2008	2009	2010e
<b>TPES (ktoe)</b>								
<b>TOTAL PRIMARY ENERGY SUPPLY</b>	<b>21 441</b>	<b>22 678</b>	<b>27 086</b>	<b>30 223</b>	<b>30 217</b>	<b>30 420</b>	<b>29 439</b>	<b>27 016</b>
% contribution of renewables and waste	5.2	5.8	5.4	5.9	5.7	5.6	6.4	7.5
<b>Renewables</b>	<b>1 104</b>	<b>1 289</b>	<b>1 402</b>	<b>1 781</b>	<b>1 729</b>	<b>1 714</b>	<b>1 872</b>	<b>2 018</b>
% contribution	5.2	5.7	5.2	5.9	5.7	5.6	6.4	7.5
Hydro	152	303	318	504	223	285	462	569
Geothermal (transformation*)	-	-	-	-	-	-	-	-
Geothermal (direct use**)	3	3	2	11	14	17	22	22
Solar photovoltaic (transformation*)	-	-	-	-	-	-	4	11
Solar thermal (transformation*)	-	-	-	-	-	-	-	-
Solar thermal (direct use**)	56	82	99	109	160	173	182	201
Tide/wave/ocean	-	-	-	-	-	-	-	-
Wind	-	3	39	146	156	193	219	184
Municipal waste (renewable)	-	-	-	-	-	-	-	-
Solid biofuels	893	897	944	931	1 054	943	848	845
Biogasoline	-	-	-	-	-	-	-	-
Biodiesels	-	-	-	46	86	69	78	128
Other liquid biofuels	-	-	-	-	-	-	-	-
Biogases	-	1	1	33	35	34	56	57
<b>Non-renewable waste</b>	<b>..</b>	<b>37</b>	<b>64</b>	<b>6</b>	<b>6</b>	<b>4</b>	<b>4</b>	<b>5</b>
% contribution	-	0.2	0.2	0.0	0.0	0.0	0.0	0.0
Industrial waste	..	37	64	6	6	4	4	5
Municipal waste (non-renewable)	-	-	-	-	-	-	-	-
<i>Memo: total waste***</i>	..	37	64	6	6	4	4	5

**ELECTRICITY (GWh)**

<b>TOTAL ELECTRICITY GENERATED</b>	<b>34 775</b>	<b>41 299</b>	<b>53 425</b>	<b>60 179</b>	<b>62 711</b>	<b>62 912</b>	<b>61 094</b>	<b>60 764</b>
% contribution of renewables and waste	5.1	8.9	8.1	12.8	7.4	9.2	13.4	15.0
<b>Renewables</b>	<b>1 771</b>	<b>3 564</b>	<b>4 144</b>	<b>7 679</b>	<b>4 594</b>	<b>5 750</b>	<b>8 185</b>	<b>9 112</b>
% contribution	5.1	8.6	7.8	12.8	7.3	9.1	13.4	15.0
Hydro (excl. pumped storage)	1 769	3 529	3 693	5 865	2 591	3 312	5 374	6 619
Geothermal	-	-	-	-	-	-	-	-
Solar photovoltaic	-	-	-	1	1	5	50	132
Solar thermal	-	-	-	-	-	-	-	-
Tide/wave/ocean	-	-	-	-	-	-	-	-
Wind	2	34	451	1 699	1 818	2 242	2 543	2 136
Municipal waste (renewable)	-	-	-	-	-	-	-	-
Solid biofuels	-	1	-	-	-	-	-	-
Liquid biofuels	-	-	-	-	-	-	-	-
Biogases	-	-	-	114	184	191	218	225
<b>Non-renewable waste</b>	<b>..</b>	<b>103</b>	<b>163</b>	<b>25</b>	<b>25</b>	<b>19</b>	<b>19</b>	<b>20</b>
% contribution	-	0.2	0.3	0.0	0.0	0.0	0.0	0.0
Industrial waste	..	103	163	25	25	19	19	20
Municipal waste (non-renewable)	-	-	-	-	-	-	-	-
<i>Memo: total waste***</i>	..	103	163	25	25	19	19	20

\* Primary energy used in the production of electricity and heat by main activity producers or autoproducers in electricity plants, CHP plants and heat plants (e.g. solar thermal power plants, geothermal power plants, etc.).

\*\* Primary energy used elsewhere than in transformation as described above (e.g. remote photovoltaic electricity production for households, heating of buildings/greenhouses by geothermal, etc.).

\*\*\* Includes municipal waste and industrial waste.

## Hungary

## Contribution from renewable energies and energy from waste

	1990	1995	2000	2006	2007	2008	2009	2010e
<b>TPES (ktoe)</b>								
<b>TOTAL PRIMARY ENERGY SUPPLY</b>	<b>28 657</b>	<b>25 875</b>	<b>24 999</b>	<b>27 330</b>	<b>26 728</b>	<b>26 458</b>	<b>24 859</b>	<b>25 441</b>
% contribution of renewables and waste	2.6	3.5	3.4	4.8	5.4	6.3	7.7	7.9
<b>Renewables</b>	<b>746</b>	<b>868</b>	<b>830</b>	<b>1 232</b>	<b>1 365</b>	<b>1 591</b>	<b>1 836</b>	<b>1 928</b>
% contribution	2.6	3.4	3.3	4.5	5.1	6.0	7.4	7.6
Hydro	15	14	15	16	18	18	20	16
Geothermal (transformation*)	-	7	6	5	5	5	5	5
Geothermal (direct use**)	86	79	80	81	81	91	91	92
Solar photovoltaic (transformation*)	-	-	-	-	-	-	-	-
Solar thermal (transformation*)	-	-	-	-	-	-	-	-
Solar thermal (direct use**)	-	-	-	2	2	4	4	5
Tide/wave/ocean	-	-	-	-	-	-	-	-
Wind	-	-	-	4	9	18	28	46
Municipal waste (renewable)	12	26	29	47	54	46	46	53
Solid biofuels	633	743	700	1 054	1 151	1 220	1 442	1 524
Biogasoline	-	-	-	11	27	46	46	57
Biodiesels	-	-	-	-	1	122	123	94
Other liquid biofuels	-	-	-	-	-	-	-	-
Biogases	-	-	-	12	17	22	31	34
<b>Non-renewable waste</b>	<b>12</b>	<b>26</b>	<b>29</b>	<b>74</b>	<b>74</b>	<b>68</b>	<b>74</b>	<b>77</b>
% contribution	0.0	0.1	0.1	0.3	0.3	0.3	0.3	0.3
Industrial waste	-	-	-	28	20	22	27	24
Municipal waste (non-renewable)	12	26	29	47	54	46	46	53
<i>Memo: total waste***</i>	<i>24</i>	<i>52</i>	<i>58</i>	<i>121</i>	<i>128</i>	<i>114</i>	<i>120</i>	<i>131</i>

**ELECTRICITY (GWh)**

<b>TOTAL ELECTRICITY GENERATED</b>	<b>28 436</b>	<b>34 018</b>	<b>35 191</b>	<b>35 859</b>	<b>39 960</b>	<b>40 025</b>	<b>35 908</b>	<b>37 375</b>
% contribution of renewables and waste	0.7	0.8	0.8	4.5	5.1	6.2	8.4	8.7
<b>Renewables</b>	<b>195</b>	<b>219</b>	<b>243</b>	<b>1 493</b>	<b>1 883</b>	<b>2 357</b>	<b>2 895</b>	<b>3 088</b>
% contribution	0.7	0.6	0.7	4.2	4.7	5.9	8.1	8.3
Hydro (excl. pumped storage)	178	163	178	186	210	213	228	188
Geothermal	-	-	-	-	-	-	-	-
Solar photovoltaic	-	-	-	-	-	1	1	1
Solar thermal	-	-	-	-	-	-	-	-
Tide/wave/ocean	-	-	-	-	-	-	-	-
Wind	-	-	-	43	110	205	331	534
Municipal waste (renewable)	17 e	48 e	55 e	94	141	109	113	145
Solid biofuels	-	8	10	1 133	1 374	1 760	2 126	2 120
Liquid biofuels	-	-	-	-	-	-	-	-
Biogases	-	-	-	37	48	69	96	100
<b>Non-renewable waste</b>	<b>17</b>	<b>47</b>	<b>55</b>	<b>132</b>	<b>146</b>	<b>114</b>	<b>117</b>	<b>149</b>
% contribution	0.1	0.1	0.2	0.4	0.4	0.3	0.3	0.4
Industrial waste	-	-	-	38	5	5	4	4
Municipal waste (non-renewable)	17 e	47 e	55 e	94	141	109	113	145
<i>Memo: total waste***</i>	<i>34 e</i>	<i>95 e</i>	<i>110 e</i>	<i>226</i>	<i>287</i>	<i>223</i>	<i>230</i>	<i>294</i>

\* Primary energy used in the production of electricity and heat by main activity producers or autoproducers in electricity plants, CHP plants and heat plants (e.g. solar thermal power plants, geothermal power plants, etc.).

\*\* Primary energy used elsewhere than in transformation as described above (e.g. remote photovoltaic electricity production for households, heating of buildings/greenhouses by geothermal, etc.).

\*\*\* Includes municipal waste and industrial waste.

## Iceland

## Contribution from renewable energies and energy from waste

	1990	1995	2000	2006	2007	2008	2009	2010e
<b>TPES (ktoe)</b>								
<b>TOTAL PRIMARY ENERGY SUPPLY</b>	<b>2 088</b>	<b>2 253</b>	<b>3 100</b>	<b>4 159</b>	<b>4 894</b>	<b>5 251</b>	<b>5 225</b>	<b>5 356</b>
% contribution of renewables and waste	67.0	69.5	74.4	78.4	80.7	82.9	84.3	85.3
<b>Renewables</b>	<b>1 400</b>	<b>1 565</b>	<b>2 305</b>	<b>3 258</b>	<b>3 949</b>	<b>4 353</b>	<b>4 402</b>	<b>4 567</b>
% contribution	67.0	69.5	74.4	78.3	80.7	82.9	84.2	85.3
Hydro	362	403	547	627	722	1 069	1 056	1 083
Geothermal (transformation*)	448	612	1 129	2 061	2 638	2 766 e	2 790	2 905
Geothermal (direct use**)	591	549	629	568	586	516 e	555	578
Solar photovoltaic (transformation*)	-	-	-	-	-	-	-	-
Solar thermal (transformation*)	-	-	-	-	-	-	-	-
Solar thermal (direct use**)	-	-	-	-	-	-	-	-
Tide/wave/ocean	-	-	-	-	-	-	-	-
Wind	-	-	-	-	-	-	-	-
Municipal waste (renewable)	-	1	1	1	3	2	1	1
Solid biofuels	-	-	-	-	-	-	-	-
Biogasoline	-	-	-	-	-	-	-	-
Biodiesels	-	-	-	-	-	-	-	-
Other liquid biofuels	-	-	-	-	-	-	-	-
Biogases	-	-	-	-	-	-	-	-
<b>Non-renewable waste</b>	-	<b>1</b>	<b>1</b>	<b>1</b>	<b>3</b>	<b>2</b>	-	-
% contribution	-	0.0	0.0	0.0	0.1	0.0	0.0	0.0
Industrial waste	-	-	-	-	-	-	-	-
Municipal waste (non-renewable)	-	1	1	1	3	2	-	-
<i>Memo: total waste***</i>	-	<i>1</i>	<i>1</i>	<i>2</i>	<i>6</i>	<i>4</i>	<i>1</i>	<i>1</i>

**ELECTRICITY (GWh)**

<b>TOTAL ELECTRICITY GENERATED</b>	<b>4 510</b>	<b>4 981</b>	<b>7 684</b>	<b>9 930</b>	<b>11 977</b>	<b>16 468</b>	<b>16 834</b>	<b>17 059</b>
% contribution of renewables and waste	99.9	99.8	99.9	100.0	100.0	100.0	100.0	100.0
<b>Renewables</b>	<b>4 504</b>	<b>4 972</b>	<b>7 679</b>	<b>9 926</b>	<b>11 974</b>	<b>16 466</b>	<b>16 832</b>	<b>17 057</b>
% contribution	99.9	99.8	99.9	100.0	100.0	100.0	100.0	100.0
Hydro (excl. pumped storage)	4 204	4 682	6 356	7 293	8 394	12 427	12 279	12 592
Geothermal	300	290	1 323	2 631	3 579	4 038	4 553	4 465
Solar photovoltaic	-	-	-	-	-	-	-	-
Solar thermal	-	-	-	-	-	-	-	-
Tide/wave/ocean	-	-	-	-	-	-	-	-
Wind	-	-	-	-	-	-	-	-
Municipal waste (renewable)	-	-	-	1	1	1	-	-
Solid biofuels	-	-	-	-	-	-	-	-
Liquid biofuels	-	-	-	-	-	-	-	-
Biogases	-	-	-	1	-	-	-	-
<b>Non-renewable waste</b>	-	-	-	-	<b>1</b>	-	-	-
% contribution	-	-	-	-	0.0	-	-	-
Industrial waste	-	-	-	-	-	-	-	-
Municipal waste (non-renewable)	-	-	-	-	1	-	-	-
<i>Memo: total waste***</i>	-	-	-	<i>1</i>	<i>2</i>	<i>1</i>	-	-

\* Primary energy used in the production of electricity and heat by main activity producers or autoproducers in electricity plants, CHP plants and heat plants (e.g. solar thermal power plants, geothermal power plants, etc.).

\*\* Primary energy used elsewhere than in transformation as described above (e.g. remote photovoltaic electricity production for households, heating of buildings/greenhouses by geothermal, etc.).

\*\*\* Includes municipal waste and industrial waste.

## Ireland

## Contribution from renewable energies and energy from waste

	1990	1995	2000	2006	2007	2008	2009	2010e
<b>TPES (ktoe)</b>								
<b>TOTAL PRIMARY ENERGY SUPPLY</b>	<b>9 988</b>	<b>10 635</b>	<b>13 699</b>	<b>14 724</b>	<b>15 039</b>	<b>14 902</b>	<b>14 339</b>	<b>14 938</b>
% contribution of renewables and waste	1.7	1.5	1.7	2.9	3.1	3.8	4.6	4.1
<b>Renewables</b>	<b>168</b>	<b>155</b>	<b>235</b>	<b>421</b>	<b>464</b>	<b>561</b>	<b>641</b>	<b>599</b>
% contribution	1.7	1.5	1.7	2.9	3.1	3.8	4.5	4.0
Hydro	60	61	73	62	57	83	78	48
Geothermal (transformation*)	-	-	-	-	-	-	-	-
Geothermal (direct use**)	-	-	-	-	-	-	-	-
Solar photovoltaic (transformation*)	-	-	-	-	-	-	-	-
Solar thermal (transformation*)	-	-	-	-	-	-	-	-
Solar thermal (direct use**)	-	-	-	1	1	3	4	5
Tide/wave/ocean	-	-	-	-	-	-	-	-
Wind	-	1	21	139	168	207	254	241
Municipal waste (renewable)	-	-	-	-	-	-	5	6
Solid biofuels	105	89	113	183	182	178	188	189
Biogasoline	-	-	-	1	3	17	21	22
Biodiesels	-	-	-	1	16	35	53	49
Other liquid biofuels	-	-	-	2	2	3	1	3
Biogases	2	3	28	32	33	35	36	35
<b>Non-renewable waste</b>	-	-	-	-	-	-	<b>13</b>	<b>9</b>
% contribution	-	-	-	-	-	-	0.1	0.1
Industrial waste	-	-	-	-	-	-	-	-
Municipal waste (non-renewable)	-	-	-	-	-	-	13	9
<i>Memo: total waste***</i>	-	-	-	-	-	-	<i>18</i>	<i>15</i>

**ELECTRICITY (GWh)**

<b>TOTAL ELECTRICITY GENERATED</b>	<b>14 229</b>	<b>17 604</b>	<b>23 673</b>	<b>27 116</b>	<b>27 874</b>	<b>29 859</b>	<b>27 887</b>	<b>28 258</b>
% contribution of renewables and waste	4.9	4.1	5.0	9.1	9.9	11.9	14.5	12.7
<b>Renewables</b>	<b>697</b>	<b>729</b>	<b>1 185</b>	<b>2 475</b>	<b>2 757</b>	<b>3 540</b>	<b>4 039</b>	<b>3 583</b>
% contribution	4.9	4.1	5.0	9.1	9.9	11.9	14.5	12.7
Hydro (excl. pumped storage)	697	713	846	724	667	969	902	557
Geothermal	-	-	-	-	-	-	-	-
Solar photovoltaic	-	-	-	-	-	-	-	-
Solar thermal	-	-	-	-	-	-	-	-
Tide/wave/ocean	-	-	-	-	-	-	-	-
Wind	-	16	244	1 622	1 958	2 410	2 955	2 807
Municipal waste (renewable)	-	-	-	-	-	-	-	-
Solid biofuels	-	-	-	9	13	33	65	107
Liquid biofuels	-	-	-	-	-	-	-	-
Biogases	-	-	95	120	119	128	117	112
<b>Non-renewable waste</b>	-	-	-	-	-	-	-	-
% contribution	-	-	-	-	-	-	-	-
Industrial waste	-	-	-	-	-	-	-	-
Municipal waste (non-renewable)	-	-	-	-	-	-	-	-
<i>Memo: total waste***</i>	-	-	-	-	-	-	-	-

\* Primary energy used in the production of electricity and heat by main activity producers or autoproducers in electricity plants, CHP plants and heat plants (e.g. solar thermal power plants, geothermal power plants, etc.).

\*\* Primary energy used elsewhere than in transformation as described above (e.g. remote photovoltaic electricity production for households, heating of buildings/greenhouses by geothermal, etc.).

\*\*\* Includes municipal waste and industrial waste.

## Israel

## Contribution from renewable energies and energy from waste

	1990	1995	2000	2006	2007	2008	2009	2010e
<b>TPES (ktoe)</b>								
<b>TOTAL PRIMARY ENERGY SUPPLY</b>	<b>11 475</b>	<b>15 518</b>	<b>18 249</b>	<b>20 907</b>	<b>21 475</b>	<b>22 313</b>	<b>21 546</b>	<b>21 908</b>
% contribution of renewables and waste	3.1	3.0	3.3	3.6	3.5	4.8	5.0	4.9
<b>Renewables</b>	<b>361</b>	<b>470</b>	<b>607</b>	<b>746</b>	<b>758</b>	<b>1 074</b>	<b>1 072</b>	<b>1 068</b>
% contribution	3.1	3.0	3.3	3.6	3.5	4.8	5.0	4.9
Hydro	-	2	3	1	1	1	2	2
Geothermal (transformation*)	-	-	-	-	-	-	-	-
Geothermal (direct use**)	-	-	-	-	-	-	-	-
Solar photovoltaic (transformation*)	-	-	-	-	-	-	2	2
Solar thermal (transformation*)	-	-	-	-	-	-	-	-
Solar thermal (direct use**)	358	462	596	736	747	1 063	1 039	1 039
Tide/wave/ocean	-	-	-	-	-	-	-	-
Wind	-	-	-	1	1	1	1	1
Municipal waste (renewable)	-	-	-	-	-	-	3	3
Solid biofuels	3	6	9	9	9	9	9	4
Biogasoline	-	-	-	-	-	-	-	-
Biodiesels	-	-	-	-	-	-	-	-
Other liquid biofuels	-	-	-	-	-	-	13	13
Biogases	-	-	-	-	-	1	3	3
<b>Non-renewable waste</b>	-	-	-	-	-	-	-	-
% contribution	-	-	-	-	-	-	-	-
Industrial waste	-	-	-	-	-	-	-	-
Municipal waste (non-renewable)	-	-	-	-	-	-	-	-
<i>Memo: total waste***</i>	-	-	-	-	-	-	3	3

**ELECTRICITY (GWh)**

<b>TOTAL ELECTRICITY GENERATED</b>	<b>20 898</b>	<b>30 425</b>	<b>42 661</b>	<b>50 558</b>	<b>53 792</b>	<b>56 995</b>	<b>55 006</b>	<b>57 236</b>
% contribution of renewables and waste	0.0	0.1	0.1	0.0	0.0	0.0	0.2	0.2
<b>Renewables</b>	<b>3</b>	<b>25</b>	<b>31</b>	<b>25</b>	<b>24</b>	<b>25</b>	<b>97</b>	<b>97</b>
% contribution	0.0	0.1	0.1	0.0	0.0	0.0	0.2	0.2
Hydro (excl. pumped storage)	3	25	31	15	14	16	22	22
Geothermal	-	-	-	-	-	-	-	-
Solar photovoltaic	-	-	-	-	-	-	24	24
Solar thermal	-	-	-	-	-	-	-	-
Tide/wave/ocean	-	-	-	-	-	-	-	-
Wind	-	-	-	10	10	9	9	9
Municipal waste (renewable)	-	-	-	-	-	-	6	6
Solid biofuels	-	-	-	-	-	-	-	-
Liquid biofuels	-	-	-	-	-	-	36	36
Biogases	-	-	-	-	-	-	-	-
<b>Non-renewable waste</b>	-	-	-	-	-	-	-	-
% contribution	-	-	-	-	-	-	-	-
Industrial waste	-	-	-	-	-	-	-	-
Municipal waste (non-renewable)	-	-	-	-	-	-	-	-
<i>Memo: total waste***</i>	-	-	-	-	-	-	6	6

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\*\* Primary energy used elsewhere than in transformation as described above (e.g. remote photovoltaic electricity production for households, heating of buildings/greenhouses by geothermal, etc.).

\*\*\* Includes municipal waste and industrial waste.

## Italy

## Contribution from renewable energies and energy from waste

	1990	1995	2000	2006	2007	2008	2009	2010e
<b>TPES (ktoe)</b>								
<b>TOTAL PRIMARY ENERGY SUPPLY</b>	<b>146 556</b>	<b>159 131</b>	<b>171 522</b>	<b>182 100</b>	<b>179 095</b>	<b>176 063</b>	<b>164 630</b>	<b>170 171</b>
% contribution of renewables and waste	4.5	5.0	6.0	7.3	7.2	8.2	10.2	10.7
<b>Renewables</b>	<b>6 472</b>	<b>7 719</b>	<b>10 113</b>	<b>12 501</b>	<b>12 035</b>	<b>13 631</b>	<b>16 027</b>	<b>17 365</b>
% contribution	4.4	4.9	5.9	6.9	6.7	7.7	9.7	10.2
Hydro	2 720	3 249	3 802	3 181	2 822	3 580	4 226	4 350
Geothermal (transformation*)	2 770	2 954	4 045 e	4 752	4 788	4 746	4 592	4 606
Geothermal (direct use**)	201	213	213 e	213	213	213	213	213
Solar photovoltaic (transformation*)	-	1	2 e	3	3	17	58	138
Solar thermal (transformation*)	-	-	-	-	-	-	-	-
Solar thermal (direct use**)	5	7	11	35	52	67	85	108
Tide/wave/ocean	-	-	-	-	-	-	-	-
Wind	-	1	48	256	347	418	563	727
Municipal waste (renewable)	11	62	167	641	700	639	686	800
Solid biofuels	764	1 209	1 695	2 863	2 542	2 771	3 690	3 799
Biogasoline	-	-	-	-	-	89	117	139
Biodiesels	-	-	-	199	180	665	1 063	1 461
Other liquid biofuels	-	-	-	-	-	17	289	539
Biogases	1	23	131	359	388	410	444	485
<b>Non-renewable waste</b>	<b>164</b>	<b>162</b>	<b>258</b>	<b>766</b>	<b>826</b>	<b>752</b>	<b>740</b>	<b>851</b>
% contribution	0.1	0.1	0.2	0.4	0.5	0.4	0.4	0.5
Industrial waste	153	100	92	125	126	113	54	51
Municipal waste (non-renewable)	11	62	167	641	700	639	686	800
<i>Memo: total waste***</i>	<i>175</i>	<i>224</i>	<i>425</i>	<i>1 406</i>	<i>1 525</i>	<i>1 391</i>	<i>1 426</i>	<i>1 651</i>

**ELECTRICITY (GWh)**

<b>TOTAL ELECTRICITY GENERATED</b>	<b>213 147</b>	<b>237 364</b>	<b>269 947</b>	<b>307 690</b>	<b>308 222</b>	<b>313 526</b>	<b>288 336</b>	<b>295 019</b>
% contribution of renewables and waste	16.4	17.5	19.0	17.0	16.0	19.1	24.7	26.2
<b>Renewables</b>	<b>34 905</b>	<b>41 458</b>	<b>50 885</b>	<b>50 634</b>	<b>47 715</b>	<b>58 162</b>	<b>69 330</b>	<b>75 270</b>
% contribution	16.4	17.5	18.8	16.5	15.5	18.6	24.0	25.5
Hydro (excl. pumped storage)	31 626	37 782	44 205	36 994	32 816	41 623	49 138	50 582
Geothermal	3 222	3 436	4 705	5 527	5 569	5 520	5 342	5 358
Solar photovoltaic	4	13	18 e	35	38	193	676	1 600
Solar thermal	-	-	-	-	-	-	-	-
Tide/wave/ocean	-	-	-	-	-	-	-	-
Wind	2	9	563	2 971	4 034	4 861	6 543	8 449
Municipal waste (renewable)	37 e	85 e	402 e	1 458 e	1 512 e	1 556 e	1 616	1 900
Solid biofuels	12	30	425	2 313	2 298	2 746	2 827	3 104
Liquid biofuels	-	-	-	-	-	64	1 448	2 389
Biogases	2	103	567	1 336	1 448	1 599	1 740	1 888
<b>Non-renewable waste</b>	<b>52</b>	<b>171</b>	<b>514</b>	<b>1 637</b>	<b>1 696</b>	<b>1 699</b>	<b>1 772</b>	<b>2 065</b>
% contribution	0.0	0.1	0.2	0.5	0.6	0.5	0.6	0.7
Industrial waste	16	87	112	179	184	143	156	165
Municipal waste (non-renewable)	36 e	84 e	402 e	1 458 e	1 512 e	1 556 e	1 616	1 900
<i>Memo: total waste***</i>	<i>89 e</i>	<i>256 e</i>	<i>916 e</i>	<i>3 095 e</i>	<i>3 208 e</i>	<i>3 255 e</i>	<i>3 388</i>	<i>3 965</i>

\* Primary energy used in the production of electricity and heat by main activity producers or autoproducers in electricity plants, CHP plants and heat plants (e.g. solar thermal power plants, geothermal power plants, etc.).

\*\* Primary energy used elsewhere than in transformation as described above (e.g. remote photovoltaic electricity production for households, heating of buildings/greenhouses by geothermal, etc.).

\*\*\* Includes municipal waste and industrial waste.

## Japan

## Contribution from renewable energies and energy from waste

	1990	1995	2000	2006	2007	2008	2009	2010e
<b>TPES (ktoe)</b>								
<b>TOTAL PRIMARY ENERGY SUPPLY</b>	<b>439 315</b>	<b>496 247</b>	<b>518 946</b>	<b>519 778</b>	<b>515 171</b>	<b>495 549</b>	<b>471 992</b>	<b>494 896</b>
% contribution of renewables and waste	3.5	3.3	3.3	3.5	3.4	3.5	3.5	3.2
<b>Renewables</b>	<b>15 211</b>	<b>15 882</b>	<b>16 630</b>	<b>17 413</b>	<b>16 470</b>	<b>16 122</b>	<b>15 725</b>	<b>15 056</b>
% contribution	3.5	3.2	3.2	3.4	3.2	3.3	3.3	3.0
Hydro	7 680	7 062	7 504	7 527	6 365	6 575	6 467	6 379
Geothermal (transformation*)	1 497	2 728	2 878	2 649	2 617	2 364	2 484	2 286
Geothermal (direct use**)	79	208	221	206	204	202	202	186
Solar photovoltaic (transformation*)	-	4 e	30 e	154 e	173 e	194 e	237 e	237
Solar thermal (transformation*)	-	-	-	-	-	-	-	-
Solar thermal (direct use**)	1 168	1 006	808	539	509	487	487	410
Tide/wave/ocean	-	-	-	-	-	-	-	-
Wind	-	-	9	190	226	253	254	326
Municipal waste (renewable)	196	303	489	698	699	693	686	686
Solid biofuels	4 537	4 476	4 560	5 308	5 544	5 212	4 769	4 454
Biogasoline	-	-	-	-	-	-	-	-
Biodiesels	-	-	-	-	-	-	-	-
Other liquid biofuels	-	-	-	-	-	-	-	-
Biogases	54	96	132	142	133	142	139	92
<b>Non-renewable waste</b>	<b>198</b>	<b>305</b>	<b>665</b>	<b>1 000</b>	<b>981</b>	<b>976</b>	<b>981</b>	<b>983</b>
% contribution	0.0	0.1	0.1	0.2	0.2	0.2	0.2	0.2
Industrial waste	2	3	176	302	282	282	295	297
Municipal waste (non-renewable)	196	303	489	698	699	693	686	686
<i>Memo: total waste***</i>	<i>394</i>	<i>608</i>	<i>1 154</i>	<i>1 698</i>	<i>1 680</i>	<i>1 669</i>	<i>1 667</i>	<i>1 669</i>

**ELECTRICITY (GWh)**

<b>TOTAL ELECTRICITY GENERATED</b>	<b>835 514</b>	<b>960 284</b>	<b>1 048 984</b>	<b>1 094 773</b>	<b>1 125 493</b>	<b>1 075 493</b>	<b>1 040 983</b>	<b>1 071 323</b>
% contribution of renewables and waste	12.2	10.2	10.1	10.7	9.3	9.9	10.1	9.8
<b>Renewables</b>	<b>100 663</b>	<b>96 524</b>	<b>103 819</b>	<b>113 056</b>	<b>100 779</b>	<b>102 889</b>	<b>101 197</b>	<b>101 084</b>
% contribution	12.0	10.1	9.9	10.3	9.0	9.6	9.7	9.4
Hydro (excl. pumped storage)	89 305	82 118	87 253	87 524	74 009	76 448	75 193	74 175
Geothermal	1 741	3 173	3 348	3 081	3 043	2 750	2 889	2 651
Solar photovoltaic	1	46 e	347 e	1 794 e	2 015 e	2 251 e	2 758 e	2 758
Solar thermal	-	-	-	-	-	-	-	-
Tide/wave/ocean	-	-	-	-	-	-	-	-
Wind	-	1	109	2 210	2 624	2 946	2 949	3 788
Municipal waste (renewable)	903	1 401	2 352	3 418	3 418	3 418	3 418	3 418
Solid biofuels	8 713	9 785	10 410	15 029	15 670	15 076	13 990	14 294
Liquid biofuels	-	-	-	-	-	-	-	-
Biogases	-	-	-	-	-	-	-	-
<b>Non-renewable waste</b>	<b>904</b>	<b>1 402</b>	<b>2 451</b>	<b>3 868</b>	<b>3 844</b>	<b>3 891</b>	<b>4 021</b>	<b>4 042</b>
% contribution	0.1	0.1	0.2	0.4	0.3	0.4	0.4	0.4
Industrial waste	-	-	97	449	425	472	602	623
Municipal waste (non-renewable)	904	1 402	2 354	3 419	3 419	3 419	3 419	3 419
<i>Memo: total waste***</i>	<i>1 807</i>	<i>2 803</i>	<i>4 803</i>	<i>7 286</i>	<i>7 262</i>	<i>7 309</i>	<i>7 439</i>	<i>7 460</i>

\* Primary energy used in the production of electricity and heat by main activity producers or autoproducers in electricity plants, CHP plants and heat plants (e.g. solar thermal power plants, geothermal power plants, etc.).

\*\* Primary energy used elsewhere than in transformation as described above (e.g. remote photovoltaic electricity production for households, heating of buildings/greenhouses by geothermal, etc.).

\*\*\* Includes municipal waste and industrial waste.

## Korea

## Contribution from renewable energies and energy from waste

	1990	1995	2000	2006	2007	2008	2009	2010e
<b>TPES (ktoe)</b>								
<b>TOTAL PRIMARY ENERGY SUPPLY</b>	<b>93 087</b>	<b>144 756</b>	<b>188 075</b>	<b>213 524</b>	<b>222 146</b>	<b>226 946</b>	<b>229 178</b>	<b>246 516</b>
% contribution of renewables and waste	1.4	0.8	0.9	1.3	1.4	1.5	1.5	1.5
<b>Renewables</b>	<b>1 007</b>	<b>430</b>	<b>758</b>	<b>1 179</b>	<b>1 322</b>	<b>1 347</b>	<b>1 498</b>	<b>1 713</b>
% contribution	1.1	0.3	0.4	0.6	0.6	0.6	0.7	0.7
Hydro	547	237	345	298	312	264	242	317
Geothermal (transformation*)	-	-	-	-	-	-	-	-
Geothermal (direct use**)	-	-	-	6	11	16	22	34
Solar photovoltaic (transformation*)	-	-	-	3	6	25	49	92
Solar thermal (transformation*)	-	-	-	-	-	-	-	-
Solar thermal (direct use**)	10	22	42	33	29	28	31	30
Tide/wave/ocean	-	-	-	-	-	-	-	-
Wind	-	-	1 e	21	32	37	59	70
Municipal waste (renewable)	4	18	109	323	353	371	384	432
Solid biofuels	428	120	225	315	309	292	319	260
Biogasoline	-	-	-	-	-	-	-	-
Biodiesels	-	-	-	40	79	150	214	303
Other liquid biofuels	-	-	-	-	-	-	-	-
Biogases	18	33	36	140	189	164	179	177
<b>Non-renewable waste</b>	<b>281</b>	<b>798</b>	<b>1 010</b>	<b>1 616</b>	<b>1 816</b>	<b>2 019</b>	<b>1 948</b>	<b>2 056</b>
% contribution	0.3	0.6	0.5	0.8	0.8	0.9	0.8	0.8
Industrial waste	279	786	937	1 400	1 561	1 708	1 613	1 730
Municipal waste (non-renewable)	3	12	73	215	255	311	335	326
<i>Memo: total waste***</i>	<i>285</i>	<i>817</i>	<i>1 119</i>	<i>1 939</i>	<i>2 169</i>	<i>2 390</i>	<i>2 332</i>	<i>2 488</i>

**ELECTRICITY (GWh)**

<b>TOTAL ELECTRICITY GENERATED</b>	<b>105 371</b>	<b>181 139</b>	<b>288 526</b>	<b>402 270</b>	<b>425 905</b>	<b>443 935</b>	<b>451 676</b>	<b>478 040</b>
% contribution of renewables and waste	6.0	1.7	1.4	1.0	1.1	1.0	1.1	1.3
<b>Renewables</b>	<b>6 362</b>	<b>3 012</b>	<b>4 111</b>	<b>4 018</b>	<b>4 557</b>	<b>4 375</b>	<b>4 687</b>	<b>6 221</b>
% contribution	6.0	1.7	1.4	1.0	1.1	1.0	1.0	1.3
Hydro (excl. pumped storage)	6 361	2 760	4 010	3 468	3 631	3 070	2 813	3 682
Geothermal	-	-	-	-	-	-	-	-
Solar photovoltaic	1	2	5	31	70	285	566	1 073
Solar thermal	-	-	-	-	-	-	-	-
Tide/wave/ocean	-	-	-	-	-	-	-	-
Wind	-	-	17	239	376	436	685	812
Municipal waste (renewable)	..	-	22 e	82 e	113	91	108	113
Solid biofuels	-	250	46	32	25	40	46	48
Liquid biofuels	-	-	-	-	-	-	-	-
Biogases	-	-	11	166	342	453	469	493
<b>Non-renewable waste</b>	<b>-</b>	<b>-</b>	<b>14</b>	<b>67</b>	<b>93</b>	<b>83</b>	<b>92</b>	<b>96</b>
% contribution	-	-	0.0	0.0	0.0	0.0	0.0	0.0
Industrial waste	-	-	-	12	11	17	14	14
Municipal waste (non-renewable)	-	-	14 e	55 e	82	66	78	82
<i>Memo: total waste***</i>	<i>..</i>	<i>-</i>	<i>36 e</i>	<i>149 e</i>	<i>206</i>	<i>174</i>	<i>200</i>	<i>209</i>

\* Primary energy used in the production of electricity and heat by main activity producers or autoproducers in electricity plants, CHP plants and heat plants (e.g. solar thermal power plants, geothermal power plants, etc.).

\*\* Primary energy used elsewhere than in transformation as described above (e.g. remote photovoltaic electricity production for households, heating of buildings/greenhouses by geothermal, etc.).

\*\*\* Includes municipal waste and industrial waste.



## Luxembourg

## Contribution from renewable energies and energy from waste

	1990	1995	2000	2006	2007	2008	2009	2010e
<b>TPES (ktoe)</b>								
<b>TOTAL PRIMARY ENERGY SUPPLY</b>	<b>3 411</b>	<b>3 151</b>	<b>3 281</b>	<b>4 319</b>	<b>4 187</b>	<b>4 185</b>	<b>3 949</b>	<b>4 205</b>
% contribution of renewables and waste	0.8	1.4	1.7	2.1	3.1	3.3	3.7	3.4
<b>Renewables</b>	<b>18</b>	<b>35</b>	<b>39</b>	<b>74</b>	<b>111</b>	<b>119</b>	<b>122</b>	<b>121</b>
% contribution	0.5	1.1	1.2	1.7	2.6	2.9	3.1	2.9
Hydro	6	8	11	10	10	11	9	9
Geothermal (transformation*)	-	-	-	-	-	-	-	-
Geothermal (direct use**)	-	-	-	-	-	-	-	-
Solar photovoltaic (transformation*)	-	-	-	2	2	2	2	2
Solar thermal (transformation*)	-	-	-	-	-	-	-	-
Solar thermal (direct use**)	-	-	-	-	-	1	1	1
Tide/wave/ocean	-	-	-	-	-	-	-	-
Wind	-	-	2	5	6	5	5	5
Municipal waste (renewable)	12	11	10	12	13	13	17	14
Solid biofuels	-	15	15	37	37	40	34	37
Biogasoline	-	-	-	-	1	1	1	1
Biodiesels	-	-	-	-	34	36	40	40
Other liquid biofuels	-	-	-	1	1	1	1	-
Biogases	-	-	1	8	9	10	12	13
<b>Non-renewable waste</b>	<b>11</b>	<b>10</b>	<b>18</b>	<b>19</b>	<b>19</b>	<b>20</b>	<b>26</b>	<b>24</b>
% contribution	0.3	0.3	0.6	0.4	0.5	0.5	0.7	0.6
Industrial waste	-	-	-	-	-	-	-	-
Municipal waste (non-renewable)	11	10	18	19	19	20	26	24
<i>Memo: total waste***</i>	23	21	28	31	32	32	43	38

**ELECTRICITY (GWh)**

<b>TOTAL ELECTRICITY GENERATED</b>	<b>624</b>	<b>487</b>	<b>424</b>	<b>3 528</b>	<b>3 200</b>	<b>2 726</b>	<b>3 151</b>	<b>3 233</b>
% contribution of renewables and waste	16.7	29.0	48.8	8.0	9.5	11.8	9.8	9.7
<b>Renewables</b>	<b>83</b>	<b>107</b>	<b>173</b>	<b>246</b>	<b>265</b>	<b>283</b>	<b>268</b>	<b>266</b>
% contribution	13.3	22.0	40.8	7.0	8.3	10.4	8.5	8.2
Hydro (excl. pumped storage)	70	88	124	111	117	132	106	108
Geothermal	-	-	-	-	-	-	-	-
Solar photovoltaic	-	-	-	21	21	20	20	20
Solar thermal	-	-	-	-	-	-	-	-
Tide/wave/ocean	-	-	-	-	-	-	-	-
Wind	-	-	27	58	64	61	63	55
Municipal waste (renewable)	13 e	19 e	18	23	26	26	26	28
Solid biofuels	-	-	-	-	-	-	-	-
Liquid biofuels	-	-	-	-	-	-	-	-
Biogases	-	-	4	33	37	44	53	55
<b>Non-renewable waste</b>	<b>21</b>	<b>34</b>	<b>34</b>	<b>35</b>	<b>40</b>	<b>40</b>	<b>40</b>	<b>47</b>
% contribution	3.4	7.0	8.0	1.0	1.3	1.5	1.3	1.5
Industrial waste	-	-	-	-	-	-	-	-
Municipal waste (non-renewable)	21 e	34 e	34	35	40	40	40	47
<i>Memo: total waste***</i>	34 e	53 e	52	58	66	66	66	75

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\*\* Primary energy used elsewhere than in transformation as described above (e.g. remote photovoltaic electricity production for households, heating of buildings/greenhouses by geothermal, etc.).

\*\*\* Includes municipal waste and industrial waste.

## Mexico

## Contribution from renewable energies and energy from waste

	1990	1995	2000	2006	2007	2008	2009	2010e
<b>TPES (ktoe)</b>								
<b>TOTAL PRIMARY ENERGY SUPPLY</b>	<b>122 493</b>	<b>129 804</b>	<b>145 123</b>	<b>171 414</b>	<b>175 937</b>	<b>181 089</b>	<b>174 640</b>	<b>169 833</b>
% contribution of renewables and waste	12.2	12.4	11.7	10.0	10.0	10.1	9.6	10.3
<b>Renewables</b>	<b>14 994</b>	<b>16 070</b>	<b>16 907</b>	<b>17 136</b>	<b>17 532</b>	<b>18 247</b>	<b>16 688</b>	<b>17 485</b>
% contribution	12.2	12.4	11.7	10.0	10.0	10.1	9.6	10.3
Hydro	2 019	2 367	2 849	2 614	2 346	3 369	2 297	3 191
Geothermal (transformation*)	4 405	4 874	5 073	5 747	6 365	6 066	5 794	5 689
Geothermal (direct use**)	-	-	-	-	-	-	-	-
Solar photovoltaic (transformation*)	-	-	1	1	1	1	1	1
Solar thermal (transformation*)	-	-	-	-	-	-	-	-
Solar thermal (direct use**)	17	25	44	94	109	134	161	193
Tide/wave/ocean	-	-	-	-	-	-	-	-
Wind	-	1	2	5	23	23	51	34
Municipal waste (renewable)	-	-	-	-	-	-	-	-
Solid biofuels	8 552	8 803	8 931	8 660	8 664	8 625	8 344	8 321
Biogasoline	-	-	-	-	-	-	-	-
Biodiesels	-	-	-	-	-	-	-	-
Other liquid biofuels	-	-	-	-	-	-	-	-
Biogases	-	-	9	15	25	28	39	55
<b>Non-renewable waste</b>	-	-	-	-	-	-	-	-
% contribution	-	-	-	-	-	-	-	-
Industrial waste	-	-	-	-	-	-	-	-
Municipal waste (non-renewable)	-	-	-	-	-	-	-	-
<i>Memo: total waste***</i>	-	-	-	-	-	-	-	-

## ELECTRICITY (GWh)

<b>TOTAL ELECTRICITY GENERATED</b>	<b>115 837</b>	<b>152 248</b>	<b>204 177</b>	<b>249 504</b>	<b>257 245</b>	<b>261 863</b>	<b>261 018</b>	<b>268 433</b>
% contribution of renewables and waste	24.7	23.7	19.9	15.8	14.5	18.7	14.1	17.5
<b>Renewables</b>	<b>28 604</b>	<b>36 007</b>	<b>40 732</b>	<b>39 480</b>	<b>37 314</b>	<b>48 982</b>	<b>36 779</b>	<b>46 852</b>
% contribution	24.7	23.7	19.9	15.8	14.5	18.7	14.1	17.5
Hydro (excl. pumped storage)	23 478	27 528	33 133	30 394	27 276	39 178	26 713	37 106
Geothermal	5 124	5 669	5 901	6 685	7 404	7 056	6 740	6 618
Solar photovoltaic	1	5	7	10	9	9	12	12
Solar thermal	-	-	-	-	-	-	-	-
Tide/wave/ocean	-	-	-	-	-	-	-	-
Wind	1	7	19	59	262	269	596	398
Municipal waste (renewable)	-	-	-	-	-	-	-	-
Solid biofuels	-	2 798	1 655	2 301	2 313	2 403	2 627	2 627
Liquid biofuels	-	-	-	-	-	-	-	-
Biogases	-	-	17	31	50	67	91	91
<b>Non-renewable waste</b>	-	-	-	-	-	-	-	-
% contribution	-	-	-	-	-	-	-	-
Industrial waste	-	-	-	-	-	-	-	-
Municipal waste (non-renewable)	-	-	-	-	-	-	-	-
<i>Memo: total waste***</i>	-	-	-	-	-	-	-	-

\* Primary energy used in the production of electricity and heat by main activity producers or autoproducers in electricity plants, CHP plants and heat plants (e.g. solar thermal power plants, geothermal power plants, etc.).

\*\* Primary energy used elsewhere than in transformation as described above (e.g. remote photovoltaic electricity production for households, heating of buildings/greenhouses by geothermal, etc.).

\*\*\* Includes municipal waste and industrial waste.

## Netherlands

## Contribution from renewable energies and energy from waste

	1990	1995	2000	2006	2007	2008	2009	2010e
<b>TPES (ktoe)</b>								
<b>TOTAL PRIMARY ENERGY SUPPLY</b>	<b>65 685</b>	<b>70 748</b>	<b>73 223</b>	<b>76 830</b>	<b>79 350</b>	<b>79 550</b>	<b>78 175</b>	<b>83 329</b>
% contribution of renewables and waste	1.5	1.7	2.5	3.9	3.9	4.5	5.0	4.5
<b>Renewables</b>	<b>738</b>	<b>884</b>	<b>1 248</b>	<b>2 286</b>	<b>2 399</b>	<b>2 792</b>	<b>3 148</b>	<b>2 994</b>
% contribution	1.1	1.2	1.7	3.0	3.0	3.5	4.0	3.6
Hydro	7	8	12	9	9	9	8	9
Geothermal (transformation*)	-	-	-	-	-	-	-	-
Geothermal (direct use**)	-	-	-	-	-	2	3	8
Solar photovoltaic (transformation*)	-	-	1	3	3	3	4	4
Solar thermal (transformation*)	-	-	-	-	-	-	-	-
Solar thermal (direct use**)	2	5	11	19	20	20	22	23
Tide/wave/ocean	-	-	-	-	-	-	-	-
Wind	5	27	71	235	296	366	394	344
Municipal waste (renewable)	315	369	609	636	665	730	775	794
Solid biofuels	351	359	419	809	845	1 025	1 252	1 380
Biogasoline	-	-	-	19	88	109	138	32
Biodiesels	-	-	-	23	242	179	235	95
Other liquid biofuels	-	-	-	393	59	123	48	25
Biogases	57	117	124	141	173	226	268	280
<b>Non-renewable waste</b>	<b>230</b>	<b>315</b>	<b>579</b>	<b>689</b>	<b>720</b>	<b>759</b>	<b>744</b>	<b>763</b>
% contribution	0.4	0.4	0.8	0.9	0.9	1.0	1.0	0.9
Industrial waste	-	-	-	-	-	-	-	-
Municipal waste (non-renewable)	230	315	579	689	720	759	744	763
<i>Memo: total waste***</i>	<i>545</i>	<i>684</i>	<i>1 188</i>	<i>1 324</i>	<i>1 385</i>	<i>1 489</i>	<i>1 519</i>	<i>1 557</i>

**ELECTRICITY (GWh)**

<b>TOTAL ELECTRICITY GENERATED</b>	<b>71 938</b>	<b>80 926</b>	<b>89 631</b>	<b>98 393</b>	<b>105 162</b>	<b>107 645</b>	<b>113 502</b>	<b>114 734</b>
% contribution of renewables and waste	1.7	2.5	4.7	9.6	8.6	10.2	10.9	11.1
<b>Renewables</b>	<b>805</b>	<b>1 404</b>	<b>2 973</b>	<b>8 048</b>	<b>7 581</b>	<b>9 530</b>	<b>10 836</b>	<b>11 130</b>
% contribution	1.1	1.7	3.3	8.2	7.2	8.9	9.5	9.7
Hydro (excl. pumped storage)	85	88	142	106	107	102	98	105
Geothermal	-	-	-	-	-	-	-	-
Solar photovoltaic	-	1	8	35	35	38	46	50
Solar thermal	-	-	-	-	-	-	-	-
Tide/wave/ocean	-	-	-	-	-	-	-	-
Wind	56	317	829	2 733	3 438	4 260	4 581	3 995
Municipal waste (renewable)	539	703	1 272	1 312	1 395	1 408	1 573	1 731
Solid biofuels	34	41	435	1 840	1 970	2 563	3 550	4 222
Liquid biofuels	-	-	-	1 660	124	425	74	54
Biogases	91	254	287	362	512	734	914	973
<b>Non-renewable waste</b>	<b>394</b>	<b>601</b>	<b>1 209</b>	<b>1 421</b>	<b>1 512</b>	<b>1 466</b>	<b>1 511</b>	<b>1 662</b>
% contribution	0.5	0.7	1.3	1.4	1.4	1.4	1.3	1.4
Industrial waste	-	-	-	-	-	-	-	-
Municipal waste (non-renewable)	394	601	1 209	1 421	1 512	1 466	1 511	1 662
<i>Memo: total waste***</i>	<i>933</i>	<i>1 304</i>	<i>2 481</i>	<i>2 733</i>	<i>2 907</i>	<i>2 874</i>	<i>3 084</i>	<i>3 393</i>

\* Primary energy used in the production of electricity and heat by main activity producers or autoproducers in electricity plants, CHP plants and heat plants (e.g. solar thermal power plants, geothermal power plants, etc.).

\*\* Primary energy used elsewhere than in transformation as described above (e.g. remote photovoltaic electricity production for households, heating of buildings/greenhouses by geothermal, etc.).

\*\*\* Includes municipal waste and industrial waste.

## New Zealand

## Contribution from renewable energies and energy from waste

	1990	1995	2000	2006	2007	2008	2009	2010e
<b>TPES (ktoe)</b>								
<b>TOTAL PRIMARY ENERGY SUPPLY</b>	<b>12 825</b>	<b>14 934</b>	<b>16 820</b>	<b>16 847</b>	<b>16 908</b>	<b>17 257</b>	<b>17 403</b>	<b>18 313</b>
% contribution of renewables and waste	32.7	32.3	29.6	31.1	32.1	33.3	36.1	38.5
<b>Renewables</b>	<b>4 198</b>	<b>4 818</b>	<b>4 982</b>	<b>5 248</b>	<b>5 434</b>	<b>5 750</b>	<b>6 276</b>	<b>7 059</b>
% contribution	32.7	32.3	29.6	31.1	32.1	33.3	36.1	38.5
Hydro	1 994	2 368	2 101	2 027	2 033	1 922	2 083	2 125
Geothermal (transformation*)	1 307	1 310	1 638	1 838	1 936	2 329	2 729	3 321
Geothermal (direct use**)	169	179	194	224	228	230	235	286
Solar photovoltaic (transformation*)	-	-	-	-	-	-	-	-
Solar thermal (transformation*)	-	-	-	-	-	-	-	-
Solar thermal (direct use**)	-	-	-	6	7	8	8	9
Tide/wave/ocean	-	-	-	-	-	-	-	-
Wind	-	-	10	53	80	91	127	141
Municipal waste (renewable)	-	-	-	-	-	-	-	-
Solid biofuels	691	912	1 007	1 033	1 083	1 105	1 030	1 105
Biogasoline	-	-	-	-	-	2	1	3
Biodiesels	-	-	-	-	1	1	1	1
Other liquid biofuels	-	-	-	-	-	-	-	-
Biogases	37	49	32	66	65	63	62	69
<b>Non-renewable waste</b>	-	-	-	-	-	-	-	-
% contribution	-	-	-	-	-	-	-	-
Industrial waste	-	-	-	-	-	-	-	-
Municipal waste (non-renewable)	-	-	-	-	-	-	-	-
<i>Memo: total waste***</i>	-	-	-	-	-	-	-	-

**ELECTRICITY (GWh)**

<b>TOTAL ELECTRICITY GENERATED</b>	<b>32 262</b>	<b>35 994</b>	<b>39 247</b>	<b>43 602</b>	<b>43 750</b>	<b>43 850</b>	<b>43 472</b>	<b>44 820</b>
% contribution of renewables and waste	80.0	84.0	71.5	64.5	65.6	64.3	71.6	73.3
<b>Renewables</b>	<b>25 814</b>	<b>30 239</b>	<b>28 062</b>	<b>28 114</b>	<b>28 688</b>	<b>28 174</b>	<b>31 139</b>	<b>32 846</b>
% contribution	80.0	84.0	71.5	64.5	65.6	64.3	71.6	73.3
Hydro (excl. pumped storage)	23 183	27 532	24 433	23 571	23 638	22 346	24 220	24 715
Geothermal	2 131	2 161	2 922	3 368	3 555	4 204	4 863	5 884
Solar photovoltaic	-	-	-	-	-	-	-	-
Solar thermal	-	-	-	-	-	-	-	-
Tide/wave/ocean	-	-	-	-	-	-	-	-
Wind	-	1	120	622	929	1 057	1 471	1 634
Municipal waste (renewable)	-	-	-	-	-	-	-	-
Solid biofuels	360	360	478	320	336	347	368	371
Liquid biofuels	-	-	-	-	-	-	-	-
Biogases	140	185	109	233	230	220	217	242
<b>Non-renewable waste</b>	-	-	-	-	-	-	-	-
% contribution	-	-	-	-	-	-	-	-
Industrial waste	-	-	-	-	-	-	-	-
Municipal waste (non-renewable)	-	-	-	-	-	-	-	-
<i>Memo: total waste***</i>	-	-	-	-	-	-	-	-

\* Primary energy used in the production of electricity and heat by main activity producers or autoproducers in electricity plants, CHP plants and heat plants (e.g. solar thermal power plants, geothermal power plants, etc.).

\*\* Primary energy used elsewhere than in transformation as described above (e.g. remote photovoltaic electricity production for households, heating of buildings/greenhouses by geothermal, etc.).

\*\*\* Includes municipal waste and industrial waste.

## Norway

## Contribution from renewable energies and energy from waste

	1990	1995	2000	2006	2007	2008	2009	2010e
<b>TPES (ktoe)</b>								
<b>TOTAL PRIMARY ENERGY SUPPLY</b>	<b>21 003</b>	<b>23 424</b>	<b>25 866</b>	<b>27 113</b>	<b>27 546</b>	<b>29 798</b>	<b>28 245</b>	<b>30 935</b>
% contribution of renewables and waste	54.5	49.4	51.5	43.0	46.9	45.3	43.8	37.7
<b>Renewables</b>	<b>11 396</b>	<b>11 516</b>	<b>13 238</b>	<b>11 554</b>	<b>12 809</b>	<b>13 364</b>	<b>12 238</b>	<b>11 544</b>
% contribution	54.3	49.2	51.2	42.6	46.5	44.8	43.3	37.3
Hydro	10 418	10 435	11 947	10 264	11 494	11 955	10 857	10 108
Geothermal (transformation*)	-	-	-	-	-	-	-	-
Geothermal (direct use**)	-	-	-	-	-	-	-	-
Solar photovoltaic (transformation*)	-	-	-	-	-	-	-	-
Solar thermal (transformation*)	-	-	-	-	-	-	-	-
Solar thermal (direct use**)	-	-	-	-	-	-	-	-
Tide/wave/ocean	-	-	-	-	-	-	-	-
Wind	-	1	3	55	77	79	84	77
Municipal waste (renewable)	54	57	64	97	102	109	114	112
Solid biofuels	923	1 006	1 199	1 106	1 081	1 113	1 064	1 105
Biogasoline	-	-	-	-	-	-	-	5
Biodiesels	-	-	-	2	27	77	92	111
Other liquid biofuels	-	-	-	4	3	4	2	1
Biogases	-	16	26	26	25	27	25	25
<b>Non-renewable waste</b>	<b>54</b>	<b>61</b>	<b>75</b>	<b>111</b>	<b>116</b>	<b>125</b>	<b>131</b>	<b>128</b>
% contribution	0.3	0.3	0.3	0.4	0.4	0.4	0.5	0.4
Industrial waste	-	4	11	14	16	15	16	16
Municipal waste (non-renewable)	54	57	64	97	101	109	115	112
<i>Memo: total waste***</i>	<i>108</i>	<i>118</i>	<i>140</i>	<i>209</i>	<i>218</i>	<i>234</i>	<i>245</i>	<i>240</i>

**ELECTRICITY (GWh)**

<b>TOTAL ELECTRICITY GENERATED</b>	<b>121 611</b>	<b>122 055</b>	<b>139 608</b>	<b>121 205</b>	<b>136 112</b>	<b>141 168</b>	<b>131 950</b>	<b>124 054</b>
% contribution of renewables and waste	99.8	99.7	99.7	99.4	99.2	99.5	96.6	95.8
<b>Renewables</b>	<b>121 358</b>	<b>121 642</b>	<b>139 202</b>	<b>120 376</b>	<b>134 934</b>	<b>140 325</b>	<b>127 452</b>	<b>118 789</b>
% contribution	99.8	99.7	99.7	99.3	99.1	99.4	96.6	95.8
Hydro (excl. pumped storage)	121 145	121 343	138 915	119 351	133 656	139 015	126 242	117 536
Geothermal	-	-	-	-	-	-	-	-
Solar photovoltaic	-	-	-	-	-	-	-	-
Solar thermal	-	-	-	-	-	-	-	-
Tide/wave/ocean	-	-	-	-	-	-	-	-
Wind	-	10	31	637	892	913	981	895
Municipal waste (renewable)	29 e	24 e	30 e	55	59	58	50	65
Solid biofuels	184	265	226	333	314	322	166	278
Liquid biofuels	-	-	-	-	-	-	-	-
Biogases	-	-	-	-	13	17	13	15
<b>Non-renewable waste</b>	<b>29</b>	<b>24</b>	<b>30</b>	<b>61</b>	<b>67</b>	<b>67</b>	<b>56</b>	<b>76</b>
% contribution	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1
Industrial waste	-	-	-	5	11	10	6	11
Municipal waste (non-renewable)	29 e	24 e	30 e	56	56	57	50	65
<i>Memo: total waste***</i>	<i>58 e</i>	<i>48 e</i>	<i>60 e</i>	<i>116</i>	<i>126</i>	<i>125</i>	<i>106</i>	<i>141</i>

\* Primary energy used in the production of electricity and heat by main activity producers or autoproducers in electricity plants, CHP plants and heat plants (e.g. solar thermal power plants, geothermal power plants, etc.).

\*\* Primary energy used elsewhere than in transformation as described above (e.g. remote photovoltaic electricity production for households, heating of buildings/greenhouses by geothermal, etc.).

\*\*\* Includes municipal waste and industrial waste.

## Poland

## Contribution from renewable energies and energy from waste

	1990	1995	2000	2006	2007	2008	2009	2010e
<b>TPES (ktoe)</b>								
<b>TOTAL PRIMARY ENERGY SUPPLY</b>	<b>103 105</b>	<b>99 472</b>	<b>89 116</b>	<b>97 033</b>	<b>96 706</b>	<b>97 883</b>	<b>93 987</b>	<b>101 710</b>
% contribution of renewables and waste	2.3	4.8	4.8	5.5	5.6	6.3	7.4	7.6
<b>Renewables</b>	<b>1 579</b>	<b>3 923</b>	<b>3 801</b>	<b>4 693</b>	<b>4 824</b>	<b>5 559</b>	<b>6 265</b>	<b>7 025</b>
% contribution	1.5	3.9	4.3	4.8	5.0	5.7	6.7	6.9
Hydro	122	162	181	176	202	185	204	251
Geothermal (transformation*)	-	-	-	-	-	-	-	-
Geothermal (direct use**)	-	-	3	13	10	13	14	13
Solar photovoltaic (transformation*)	-	-	-	-	-	-	-	-
Solar thermal (transformation*)	-	-	-	-	-	-	-	-
Solar thermal (direct use**)	-	-	-	-	-	1	2	2
Tide/wave/ocean	-	-	-	-	-	-	-	-
Wind	-	-	-	22	45	72	93	142
Municipal waste (renewable)	-	-	1	1	1	-	1	3
Solid biofuels	1 448	3 748	3 587	4 323	4 394	4 750	5 189	5 612
Biogasoline	-	-	-	61	80	126	195	196
Biodiesels	-	-	-	29	24	311	387	580
Other liquid biofuels	-	-	-	5	3	5	82	118
Biogases	9	13	29	62	65	96	98	107
<b>Non-renewable waste</b>	<b>772</b>	<b>838</b>	<b>448</b>	<b>619</b>	<b>544</b>	<b>567</b>	<b>703</b>	<b>719</b>
% contribution	0.7	0.8	0.5	0.6	0.6	0.6	0.7	0.7
Industrial waste	772	838	447	580	502	548	589	603
Municipal waste (non-renewable)	-	-	1	39	42	19	114	117
<i>Memo: total waste***</i>	<i>772</i>	<i>838</i>	<i>449</i>	<i>619</i>	<i>545</i>	<i>567</i>	<i>704</i>	<i>723</i>

## ELECTRICITY (GWh)

<b>TOTAL ELECTRICITY GENERATED</b>	<b>134 415</b>	<b>137 042</b>	<b>143 174</b>	<b>160 764</b>	<b>158 761</b>	<b>154 710</b>	<b>151 121</b>	<b>156 972</b>
% contribution of renewables and waste	1.2	1.6	1.9	2.8	3.6	4.4	5.9	7.0
<b>Renewables</b>	<b>1 472</b>	<b>1 955</b>	<b>2 332</b>	<b>4 291</b>	<b>5 429</b>	<b>6 606</b>	<b>8 679</b>	<b>10 784</b>
% contribution	1.1	1.4	1.6	2.7	3.4	4.3	5.7	6.9
Hydro (excl. pumped storage)	1 417	1 887	2 106	2 042	2 352	2 152	2 375	2 916
Geothermal	-	-	-	-	-	-	-	-
Solar photovoltaic	-	-	-	-	-	-	-	-
Solar thermal	-	-	-	-	-	-	-	-
Tide/wave/ocean	-	-	-	-	-	-	-	-
Wind	-	1	5	256	522	837	1 077	1 655
Municipal waste (renewable)	-	-	-	-	-	-	-	-
Solid biofuels	55	54	190	1 833	2 360	3 366	4 904	5 834
Liquid biofuels	-	-	-	-	-	-	3	1
Biogases	-	13	31	160	195	251	320	378
<b>Non-renewable waste</b>	<b>203</b>	<b>297</b>	<b>331</b>	<b>236</b>	<b>232</b>	<b>208</b>	<b>236</b>	<b>243</b>
% contribution	0.2	0.2	0.2	0.1	0.1	0.1	0.2	0.2
Industrial waste	203	297	331	236	232	197	227	233
Municipal waste (non-renewable)	-	-	-	-	-	11	9	10
<i>Memo: total waste***</i>	<i>203</i>	<i>297</i>	<i>331</i>	<i>236</i>	<i>232</i>	<i>208</i>	<i>236</i>	<i>243</i>

\* Primary energy used in the production of electricity and heat by main activity producers or autoproducers in electricity plants, CHP plants and heat plants (e.g. solar thermal power plants, geothermal power plants, etc.).

\*\* Primary energy used elsewhere than in transformation as described above (e.g. remote photovoltaic electricity production for households, heating of buildings/greenhouses by geothermal, etc.).

\*\*\* Includes municipal waste and industrial waste.

## Portugal

## Contribution from renewable energies and energy from waste

	1990	1995	2000	2006	2007	2008	2009	2010e
<b>TPES (ktoe)</b>								
<b>TOTAL PRIMARY ENERGY SUPPLY</b>	<b>16 739</b>	<b>20 211</b>	<b>24 673</b>	<b>24 698</b>	<b>25 302</b>	<b>24 430</b>	<b>24 096</b>	<b>23 521</b>
% contribution of renewables and waste	19.6	16.4	15.6	17.7	18.3	18.3	20.3	24.5
<b>Renewables</b>	<b>3 278</b>	<b>3 318</b>	<b>3 759</b>	<b>4 219</b>	<b>4 489</b>	<b>4 333</b>	<b>4 740</b>	<b>5 636</b>
% contribution	19.6	16.4	15.2	17.1	17.7	17.7	19.7	24.0
Hydro	788	717	974	946	868	585	712	1 389
Geothermal (transformation*)	3	37	69	77	183	175	168	168
Geothermal (direct use**)	-	1	1	10	10	10	10	11
Solar photovoltaic (transformation*)	-	-	-	-	2	3	14	18
Solar thermal (transformation*)	-	-	-	-	-	-	-	-
Solar thermal (direct use**)	11	15	18	24	26	30	38	53
Tide/wave/ocean	-	-	-	-	-	-	-	-
Wind	-	1	14	252	347	495	652	782
Municipal waste (renewable)	-	-	87	100	94	91	99	96
Solid biofuels	2 476	2 546	2 594	2 731	2 807	2 788	2 800	2 769
Biogasoline	-	-	-	-	-	-	-	-
Biodiesels	-	-	-	70	133	128	220	315
Other liquid biofuels	-	-	-	-	3	4	4	4
Biogases	-	1	1	9	16	23	24	31
<b>Non-renewable waste</b>	-	-	<b>87</b>	<b>145</b>	<b>133</b>	<b>133</b>	<b>140</b>	<b>136</b>
% contribution	-	-	0.4	0.6	0.5	0.5	0.6	0.6
Industrial waste	-	-	-	45	39	41	41	40
Municipal waste (non-renewable)	-	-	87	100	94	91	99	96
<i>Memo: total waste***</i>	-	-	174	245	227	224	239	231

**ELECTRICITY (GWh)**

<b>TOTAL ELECTRICITY GENERATED</b>	<b>28 355</b>	<b>33 154</b>	<b>43 372</b>	<b>48 576</b>	<b>46 896</b>	<b>45 471</b>	<b>49 482</b>	<b>52 685</b>
% contribution of renewables and waste	34.7	28.3	30.3	33.0	35.2	32.8	37.6	53.9
<b>Renewables</b>	<b>9 852</b>	<b>9 390</b>	<b>12 868</b>	<b>15 722</b>	<b>16 218</b>	<b>14 638</b>	<b>18 291</b>	<b>28 095</b>
% contribution	34.7	28.3	29.7	32.4	34.6	32.2	37.0	53.3
Hydro (excl. pumped storage)	9 157	8 343	11 323	11 002	10 092	6 798	8 284	16 150
Geothermal	4	42	80	85	201	192	184	196
Solar photovoltaic	1	1	1	5	24	38	160	213
Solar thermal	-	-	-	-	-	-	-	-
Tide/wave/ocean	-	-	-	-	-	-	-	-
Wind	1	16	168	2 925	4 037	5 757	7 577	9 098
Municipal waste (renewable)	-	-	257 e	293	276	281	290	289
Solid biofuels	689	987	1 037	1 380	1 530	1 501	1 713	2 049
Liquid biofuels	-	-	-	-	-	-	-	-
Biogases	-	1	2	32	58	71	83	100
<b>Non-renewable waste</b>	-	-	<b>257</b>	<b>306</b>	<b>286</b>	<b>290</b>	<b>298</b>	<b>293</b>
% contribution	-	-	0.6	0.6	0.6	0.6	0.6	0.6
Industrial waste	-	-	-	13	10	9	9	5
Municipal waste (non-renewable)	-	-	257 e	293	276	281	289	288
<i>Memo: total waste***</i>	-	-	514 e	599	562	571	588	582

\* Primary energy used in the production of electricity and heat by main activity producers or autoproducers in electricity plants, CHP plants and heat plants (e.g. solar thermal power plants, geothermal power plants, etc.).

\*\* Primary energy used elsewhere than in transformation as described above (e.g. remote photovoltaic electricity production for households, heating of buildings/greenhouses by geothermal, etc.).

\*\*\* Includes municipal waste and industrial waste.

## Slovak Republic

## Contribution from renewable energies and energy from waste

	1990	1995	2000	2006	2007	2008	2009	2010e
<b>TPES (ktoe)</b>								
<b>TOTAL PRIMARY ENERGY SUPPLY</b>	<b>21 327</b>	<b>17 778</b>	<b>17 743</b>	<b>18 640</b>	<b>17 849</b>	<b>18 304</b>	<b>16 723</b>	<b>17 267</b>
% contribution of renewables and waste	1.6	4.0	4.6	4.7	5.7	5.7	7.5	6.9
<b>Renewables</b>	<b>328</b>	<b>497</b>	<b>488</b>	<b>835</b>	<b>972</b>	<b>991</b>	<b>1 213</b>	<b>1 146</b>
% contribution	1.5	2.8	2.8	4.5	5.4	5.4	7.3	6.6
Hydro	162	420	397	378	383	347	376	472
Geothermal (transformation*)	-	-	-	8	9	7	7	9
Geothermal (direct use**)	-	-	-	2	2	2	2	2
Solar photovoltaic (transformation*)	-	-	-	-	-	-	-	-
Solar thermal (transformation*)	-	-	-	-	-	-	-	-
Solar thermal (direct use**)	-	-	-	-	-	-	-	-
Tide/wave/ocean	-	-	-	-	-	-	-	-
Wind	-	-	-	1	1	1	1	-
Municipal waste (renewable)	-	-	-	21	19	25	25	24
Solid biofuels	166	78	91	373	461	473	620	573
Biogasoline	-	-	-	1	12	26	34	17
Biodiesels	-	-	-	43	78	101	133	36
Other liquid biofuels	-	-	-	-	-	-	-	-
Biogases	-	-	-	8	7	10	16	13
<b>Non-renewable waste</b>	<b>8</b>	<b>210</b>	<b>322</b>	<b>42</b>	<b>52</b>	<b>50</b>	<b>49</b>	<b>43</b>
% contribution	0.0	1.2	1.8	0.2	0.3	0.3	0.3	0.2
Industrial waste	8	210	322	21	33	29	29	24
Municipal waste (non-renewable)	-	-	-	21	19	21	20	19
<i>Memo: total waste***</i>	<i>8</i>	<i>210</i>	<i>322</i>	<i>63</i>	<i>71</i>	<i>75</i>	<i>74</i>	<i>67</i>

**ELECTRICITY (GWh)**

<b>TOTAL ELECTRICITY GENERATED</b>	<b>25 497</b>	<b>26 428</b>	<b>30 798</b>	<b>31 251</b>	<b>27 892</b>	<b>28 760</b>	<b>25 919</b>	<b>27 331</b>
% contribution of renewables and waste	7.4	18.5	15.1	15.4	17.8	15.9	19.0	22.1
<b>Renewables</b>	<b>1 880</b>	<b>4 880</b>	<b>4 615</b>	<b>4 803</b>	<b>4 934</b>	<b>4 563</b>	<b>4 911</b>	<b>6 015</b>
% contribution	7.4	18.5	15.0	15.4	17.7	15.9	18.9	22.0
Hydro (excl. pumped storage)	1 880	4 880	4 615	4 399	4 451	4 039	4 368	5 487
Geothermal	-	-	-	-	-	-	-	-
Solar photovoltaic	-	-	-	-	-	-	-	-
Solar thermal	-	-	-	-	-	-	-	-
Tide/wave/ocean	-	-	-	-	-	-	-	-
Wind	-	-	-	6	8	7	6	5
Municipal waste (renewable)	-	-	-	23 e	22	22	22	21
Solid biofuels	-	-	-	367	441	480	493	480
Liquid biofuels	-	-	-	-	-	-	-	-
Biogases	-	-	-	8	12	15	22	22
<b>Non-renewable waste</b>	<b>-</b>	<b>-</b>	<b>32</b>	<b>25</b>	<b>24</b>	<b>18</b>	<b>16</b>	<b>16</b>
% contribution	-	-	0.1	0.1	0.1	0.1	0.1	0.1
Industrial waste	-	-	32	1	1	1	2	2
Municipal waste (non-renewable)	-	-	-	24 e	23	17	14	14
<i>Memo: total waste***</i>	<i>-</i>	<i>-</i>	<i>32</i>	<i>48 e</i>	<i>46</i>	<i>40</i>	<i>38</i>	<i>37</i>

\* Primary energy used in the production of electricity and heat by main activity producers or autoproducers in electricity plants, CHP plants and heat plants (e.g. solar thermal power plants, geothermal power plants, etc.).

\*\* Primary energy used elsewhere than in transformation as described above (e.g. remote photovoltaic electricity production for households, heating of buildings/greenhouses by geothermal, etc.).

\*\*\* Includes municipal waste and industrial waste.



## Slovenia

## Contribution from renewable energies and energy from waste

	1990	1995	2000	2006	2007	2008	2009	2010e
<b>TPES (ktoe)</b>								
<b>TOTAL PRIMARY ENERGY SUPPLY</b>	<b>5 710</b>	<b>6 068</b>	<b>6 413</b>	<b>7 322</b>	<b>7 320</b>	<b>7 735</b>	<b>6 969</b>	<b>7 093</b>
% contribution of renewables and waste	9.1	8.9	12.3	10.7	10.2	11.2	13.0	13.1
<b>Renewables</b>	<b>521</b>	<b>543</b>	<b>788</b>	<b>768</b>	<b>735</b>	<b>853</b>	<b>887</b>	<b>904</b>
% contribution	9.1	8.9	12.3	10.5	10.0	11.0	12.7	12.7
Hydro	254	280	330	309	281	346	405	388
Geothermal (transformation*)	-	-	-	-	-	-	-	-
Geothermal (direct use**)	-	-	-	-	-	-	-	-
Solar photovoltaic (transformation*)	-	-	-	-	-	-	-	1
Solar thermal (transformation*)	-	-	-	-	-	-	-	-
Solar thermal (direct use**)	-	-	-	-	-	-	-	-
Tide/wave/ocean	-	-	-	-	-	-	-	-
Wind	-	-	-	-	-	-	-	-
Municipal waste (renewable)	-	-	-	-	-	-	-	-
Solid biofuels	267	263	454	449	429	469	429	445
Biogasoline	-	-	-	-	1	3	2	2
Biodiesels	-	-	-	2	13	22	28	38
Other liquid biofuels	-	-	-	-	-	-	-	-
Biogases	-	-	4	8	12	14	22	30
<b>Non-renewable waste</b>	-	-	-	<b>16</b>	<b>13</b>	<b>15</b>	<b>20</b>	<b>23</b>
% contribution	-	-	0.0	0.2	0.2	0.2	0.3	0.3
Industrial waste	-	-	-	16	13	15	20	23
Municipal waste (non-renewable)	-	-	-	-	-	-	-	-
<i>Memo: total waste***</i>	-	-	-	16	13	15	20	23

**ELECTRICITY (GWh)**

<b>TOTAL ELECTRICITY GENERATED</b>	<b>12 444</b>	<b>12 913</b>	<b>13 624</b>	<b>15 115</b>	<b>15 043</b>	<b>16 399</b>	<b>16 401</b>	<b>16 248</b>
% contribution of renewables and waste	23.7	25.2	28.7	24.5	22.5	26.3	29.9	29.2
<b>Renewables</b>	<b>2 950</b>	<b>3 252</b>	<b>3 904</b>	<b>3 703</b>	<b>3 379</b>	<b>4 308</b>	<b>4 905</b>	<b>4 740</b>
% contribution	23.7	25.2	28.7	24.5	22.5	26.3	29.9	29.2
Hydro (excl. pumped storage)	2 950	3 252	3 834	3 591	3 266	4 018	4 713	4 511
Geothermal	-	-	-	-	-	-	-	-
Solar photovoltaic	-	-	-	-	-	1	4	13
Solar thermal	-	-	-	-	-	-	-	-
Tide/wave/ocean	-	-	-	-	-	-	-	-
Wind	-	-	-	-	-	-	-	-
Municipal waste (renewable)	-	-	-	-	-	-	-	-
Solid biofuels	-	-	58	76	65	233	120	119
Liquid biofuels	-	-	-	-	-	-	-	-
Biogases	-	-	12	36	48	56	68	97
<b>Non-renewable waste</b>	-	-	-	<b>5</b>	<b>5</b>	<b>3</b>	<b>4</b>	<b>5</b>
% contribution	-	-	-	0.0	0.0	0.0	0.0	0.0
Industrial waste	-	-	-	5	5	3	4	5
Municipal waste (non-renewable)	-	-	-	-	-	-	-	-
<i>Memo: total waste***</i>	-	-	-	5	5	3	4	5

\* Primary energy used in the production of electricity and heat by main activity producers or autoproducers in electricity plants, CHP plants and heat plants (e.g. solar thermal power plants, geothermal power plants, etc.).

\*\* Primary energy used elsewhere than in transformation as described above (e.g. remote photovoltaic electricity production for households, heating of buildings/greenhouses by geothermal, etc.).

\*\*\* Includes municipal waste and industrial waste.

## Spain

## Contribution from renewable energies and energy from waste

	1990	1995	2000	2006	2007	2008	2009	2010e
<b>TPES (ktoe)</b>								
<b>TOTAL PRIMARY ENERGY SUPPLY</b>	<b>90 087</b>	<b>100 820</b>	<b>121 948</b>	<b>141 479</b>	<b>143 869</b>	<b>138 812</b>	<b>126 520</b>	<b>128 136</b>
% contribution of renewables and waste	6.9	5.7	5.8	6.6	7.1	7.9	9.8	11.6
<b>Renewables</b>	<b>6 193</b>	<b>5 509</b>	<b>6 930</b>	<b>9 131</b>	<b>9 972</b>	<b>10 638</b>	<b>12 091</b>	<b>14 653</b>
% contribution	6.9	5.5	5.7	6.5	6.9	7.7	9.6	11.4
Hydro	2 186	1 988	2 543 e	2 227	2 342	2 024	2 264	3 630
Geothermal (transformation*)	-	-	-	-	-	-	-	-
Geothermal (direct use**)	-	3	8	8	8	8	9	4
Solar photovoltaic (transformation*)	1	1	2	10	43	220	518	568
Solar thermal (transformation*)	-	-	-	-	2	4	5	6
Solar thermal (direct use**)	-	25	31	73	93	129	156	182
Tide/wave/ocean	-	-	-	-	-	-	-	-
Wind	1	23	407	2 004	2 371	2 833	3 248	3 759
Municipal waste (renewable)	41	94	115	252	309	328	319	183
Solid biofuels	3 955	3 300	3 623	4 205	4 231	4 281	4 315	4 660
Biogasoline	-	-	-	114	114	116	151	231
Biodiesels	-	-	72	57	270	492	921	1 210
Other liquid biofuels	-	-	-	-	-	-	-	-
Biogases	10	75	131	182	190	203	184	219
<b>Non-renewable waste</b>	<b>61</b>	<b>214</b>	<b>190</b>	<b>252</b>	<b>309</b>	<b>328</b>	<b>319</b>	<b>228</b>
% contribution	0.1	0.2	0.2	0.2	0.2	0.2	0.3	0.2
Industrial waste	20	120	75	-	-	-	-	-
Municipal waste (non-renewable)	41	94	115	252	309	328	319	228
<i>Memo: total waste***</i>	<i>101</i>	<i>308</i>	<i>304</i>	<i>504</i>	<i>618</i>	<i>656</i>	<i>638</i>	<i>411</i>

**ELECTRICITY (GWh)**

<b>TOTAL ELECTRICITY GENERATED</b>	<b>151 150</b>	<b>165 628</b>	<b>222 235</b>	<b>295 513</b>	<b>301 763</b>	<b>311 146</b>	<b>291 016</b>	<b>295 299</b>
% contribution of renewables and waste	17.3	14.9	16.4	17.8	19.5	20.3	25.5	32.9
<b>Renewables</b>	<b>25 976</b>	<b>24 408</b>	<b>35 808</b>	<b>52 080</b>	<b>58 207</b>	<b>62 311</b>	<b>73 571</b>	<b>96 499</b>
% contribution	17.2	14.7	16.1	17.6	19.3	20.0	25.3	32.7
Hydro (excl. pumped storage)	25 414	23 112	29 570 e	25 890	27 233	23 532	26 331	42 215
Geothermal	-	-	-	-	-	-	-	-
Solar photovoltaic	6	15	18	119	500	2 562	6 018	6 607
Solar thermal	-	-	-	-	8	16	22	24
Tide/wave/ocean	-	-	-	-	-	-	-	-
Wind	14	270	4 727	23 297	27 568	32 946	37 773	43 708
Municipal waste (renewable)	80 e	196 e	334 e	601	737	782	761	762
Solid biofuels	462	668	841	1 573	1 553	1 888	2 139	2 421
Liquid biofuels	-	-	-	-	-	-	-	-
Biogases	-	147	318	600	608	585	527	762
<b>Non-renewable waste</b>	<b>130</b>	<b>313</b>	<b>607</b>	<b>601</b>	<b>737</b>	<b>782</b>	<b>761</b>	<b>762</b>
% contribution	0.1	0.2	0.3	0.2	0.2	0.3	0.3	0.3
Industrial waste	50	118	274	..	..	..	..	-
Municipal waste (non-renewable)	80 e	195 e	333 e	601	737	782	761	762
<i>Memo: total waste***</i>	<i>210 e</i>	<i>509 e</i>	<i>941 e</i>	<i>1 202</i>	<i>1 474</i>	<i>1 564</i>	<i>1 522</i>	<i>1 524</i>

\* Primary energy used in the production of electricity and heat by main activity producers or autoproducers in electricity plants, CHP plants and heat plants (e.g. solar thermal power plants, geothermal power plants, etc.).

\*\* Primary energy used elsewhere than in transformation as described above (e.g. remote photovoltaic electricity production for households, heating of buildings/greenhouses by geothermal, etc.).

\*\*\* Includes municipal waste and industrial waste.

## Sweden

## Contribution from renewable energies and energy from waste

	1990	1995	2000	2006	2007	2008	2009	2010e
<b>TPES (ktoe)</b>								
<b>TOTAL PRIMARY ENERGY SUPPLY</b>	<b>47 198</b>	<b>50 333</b>	<b>47 556</b>	<b>50 207</b>	<b>50 060</b>	<b>49 601</b>	<b>45 408</b>	<b>50 778</b>
% contribution of renewables and waste	24.9	26.0	31.7	29.7	31.3	32.4	35.8	33.6
<b>Renewables</b>	<b>11 530</b>	<b>12 836</b>	<b>14 741</b>	<b>14 387</b>	<b>15 293</b>	<b>15 619</b>	<b>15 819</b>	<b>16 592</b>
% contribution	24.4	25.5	31.0	28.7	30.5	31.5	34.8	32.7
Hydro	6 235	5 857	6 758	5 308	5 690	5 940	5 663	6 133
Geothermal (transformation*)	-	-	-	-	-	-	-	-
Geothermal (direct use**)	-	-	-	-	-	-	-	-
Solar photovoltaic (transformation*)	-	-	-	-	-	-	1	1
Solar thermal (transformation*)	-	-	-	-	-	-	-	-
Solar thermal (direct use**)	3	5	5	6	9	9	10	10
Tide/wave/ocean	-	-	-	-	-	-	-	-
Wind	1	9	39	85	123	172	214	299
Municipal waste (renewable)	140	158	199	306	553	635	645	702
Solid biofuels	5 152	6 782	7 706	8 331	8 439	8 305	8 619	8 753
Biogasoline	-	-	-	144	182	214	198	203
Biodiesels	-	-	-	43	102	130	162	177
Other liquid biofuels	-	-	-	131	145	112	197	196
Biogases	-	25	32	32	48	102	109	117
<b>Non-renewable waste</b>	<b>215</b>	<b>239</b>	<b>324</b>	<b>519</b>	<b>400</b>	<b>434</b>	<b>449</b>	<b>485</b>
% contribution	0.5	0.5	0.7	1.0	0.8	0.9	1.0	1.0
Industrial waste	5	2	25	60	31	11	19	17
Municipal waste (non-renewable)	210	237	299	459	369	423	430	468
<i>Memo: total waste***</i>	<i>355</i>	<i>397</i>	<i>524</i>	<i>824</i>	<i>954</i>	<i>1 069</i>	<i>1 095</i>	<i>1 188</i>

**ELECTRICITY (GWh)**

<b>TOTAL ELECTRICITY GENERATED</b>	<b>145 984</b>	<b>148 293</b>	<b>145 231</b>	<b>143 286</b>	<b>148 823</b>	<b>149 894</b>	<b>136 592</b>	<b>152 785</b>
% contribution of renewables and waste	51.0	47.6	57.4	50.3	52.6	54.9	59.0	55.4
<b>Renewables</b>	<b>74 452</b>	<b>70 556</b>	<b>83 140</b>	<b>71 071</b>	<b>77 428</b>	<b>81 406</b>	<b>79 804</b>	<b>84 115</b>
% contribution	51.0	47.6	57.2	49.6	52.0	54.3	58.4	55.1
Hydro (excl. pumped storage)	72 503	68 102	78 584	61 723	66 159	69 069	65 852	71 316
Geothermal	-	-	-	-	-	-	-	-
Solar photovoltaic	-	1	1	2	3	4	7	9
Solar thermal	-	-	-	-	-	-	-	-
Tide/wave/ocean	-	-	-	-	-	-	-	-
Wind	6	99	457	987	1 430	1 996	2 485	3 479
Municipal waste (renewable)	41	46	96	568	1 109	1 269	1 048	877
Solid biofuels	1 902	2 278	3 970	7 503	8 496	8 932	10 103	8 375
Liquid biofuels	-	-	-	242	167	106	275	37
Biogases	-	30	32	46	64	30	34	22
<b>Non-renewable waste</b>	<b>62</b>	<b>70</b>	<b>244</b>	<b>996</b>	<b>820</b>	<b>888</b>	<b>737</b>	<b>600</b>
% contribution	0.0	0.0	0.2	0.7	0.6	0.6	0.5	0.4
Industrial waste	-	-	101	145	78	42	38	16
Municipal waste (non-renewable)	62	70	143	851	742	846	699	584
<i>Memo: total waste***</i>	<i>103</i>	<i>116</i>	<i>340</i>	<i>1 564</i>	<i>1 929</i>	<i>2 157</i>	<i>1 785</i>	<i>1 477</i>

\* Primary energy used in the production of electricity and heat by main activity producers or autoproducers in electricity plants, CHP plants and heat plants (e.g. solar thermal power plants, geothermal power plants, etc.).

\*\* Primary energy used elsewhere than in transformation as described above (e.g. remote photovoltaic electricity production for households, heating of buildings/greenhouses by geothermal, etc.).

\*\*\* Includes municipal waste and industrial waste.

## Switzerland

## Contribution from renewable energies and energy from waste

	1990	1995	2000	2006	2007	2008	2009	2010e
<b>TPES (ktoe)</b>								
<b>TOTAL PRIMARY ENERGY SUPPLY</b>	<b>24 320</b>	<b>24 058</b>	<b>25 009</b>	<b>27 056</b>	<b>25 763</b>	<b>26 776</b>	<b>26 952</b>	<b>26 306</b>
% contribution of renewables and waste	16.8	19.6	20.4	18.3	20.8	20.8	20.5	21.8
<b>Renewables</b>	<b>3 637</b>	<b>4 207</b>	<b>4 425</b>	<b>4 171</b>	<b>4 570</b>	<b>4 765</b>	<b>4 776</b>	<b>4 942</b>
% contribution	15.0	17.5	17.7	15.4	17.7	17.8	17.7	18.8
Hydro	2 562	3 025	3 168	2 662	3 032	3 099	3 072	3 101
Geothermal (transformation*)	-	-	-	-	-	-	-	-
Geothermal (direct use**)	69	88	103	151	164	194	210	229
Solar photovoltaic (transformation*)	-	-	1	2	2	3	4	4
Solar thermal (transformation*)	-	-	-	-	-	-	-	-
Solar thermal (direct use**)	8	15	21	26	27	30	39	51
Tide/wave/ocean	-	-	-	-	-	-	-	-
Wind	-	-	-	1	1	2	2	2
Municipal waste (renewable)	277	294	407	495	521	508	502	521
Solid biofuels	684	734	666	766	748	851	871	954
Biogasoline	-	-	-	1	2	2	1	1
Biodiesels	-	-	-	6	8	8	5	8
Other liquid biofuels	-	-	-	-	-	-	-	-
Biogases	38	52	60	61	65	68	69	72
<b>Non-renewable waste</b>	<b>437</b>	<b>496</b>	<b>678</b>	<b>787</b>	<b>797</b>	<b>798</b>	<b>756</b>	<b>786</b>
% contribution	1.8	2.1	2.7	2.9	3.1	3.0	2.8	3.0
Industrial waste	160	202	271	293	276	290	254	266
Municipal waste (non-renewable)	277	294	407	495	521	508	502	521
<i>Memo: total waste***</i>	<i>714</i>	<i>790</i>	<i>1 084</i>	<i>1 282</i>	<i>1 317</i>	<i>1 307</i>	<i>1 258</i>	<i>1 307</i>

**ELECTRICITY (GWh)**

<b>TOTAL ELECTRICITY GENERATED</b>	<b>54 994</b>	<b>62 247</b>	<b>66 127</b>	<b>62 139</b>	<b>66 439</b>	<b>67 040</b>	<b>66 669</b>	<b>66 556</b>
% contribution of renewables and waste	55.6	58.3	58.4	53.7	56.6	57.4	57.3	58.5
<b>Renewables</b>	<b>30 236</b>	<b>35 748</b>	<b>37 693</b>	<b>32 150</b>	<b>36 484</b>	<b>37 325</b>	<b>37 041</b>	<b>37 582</b>
% contribution	55.0	57.4	57.0	51.7	54.9	55.7	55.6	56.5
Hydro (excl. pumped storage)	29 795	35 169	36 834	30 959	35 250	36 036	35 723	36 062
Geothermal	-	-	-	-	-	-	-	-
Solar photovoltaic	1	5	11	23	27	34	50	50
Solar thermal	-	-	-	-	-	-	-	-
Tide/wave/ocean	-	-	-	-	-	-	-	-
Wind	-	-	3	15	16	19	23	23
Municipal waste (renewable)	320	410	636	908	890	912	887	1 031
Solid biofuels	40	41	59	87	130	144	165	192
Liquid biofuels	-	-	-	-	-	-	-	-
Biogases	80	123	150	158	171	180	193	224
<b>Non-renewable waste</b>	<b>364</b>	<b>516</b>	<b>904</b>	<b>1 191</b>	<b>1 119</b>	<b>1 160</b>	<b>1 158</b>	<b>1 346</b>
% contribution	0.7	0.8	1.4	1.9	1.7	1.7	1.7	2.0
Industrial waste	44	106	268	283	229	248	271	315
Municipal waste (non-renewable)	320	410	636	908	890	912	887	1 031
<i>Memo: total waste***</i>	<i>684</i>	<i>926</i>	<i>1 540</i>	<i>2 099</i>	<i>2 009</i>	<i>2 072</i>	<i>2 045</i>	<i>2 377</i>

\* Primary energy used in the production of electricity and heat by main activity producers or autoproducers in electricity plants, CHP plants and heat plants (e.g. solar thermal power plants, geothermal power plants, etc.).

\*\* Primary energy used elsewhere than in transformation as described above (e.g. remote photovoltaic electricity production for households, heating of buildings/greenhouses by geothermal, etc.).

\*\*\* Includes municipal waste and industrial waste.

## Turkey

## Contribution from renewable energies and energy from waste

	1990	1995	2000	2006	2007	2008	2009	2010e
<b>TPES (ktoe)</b>								
<b>TOTAL PRIMARY ENERGY SUPPLY</b>	<b>52 756</b>	<b>61 545</b>	<b>76 348</b>	<b>93 035</b>	<b>100 005</b>	<b>98 502</b>	<b>97 661</b>	<b>104 800</b>
% contribution of renewables and waste	18.3	17.5	13.3	11.2	9.6	9.5	10.2	11.0
<b>Renewables</b>	<b>9 657</b>	<b>10 775</b>	<b>10 101</b>	<b>10 356</b>	<b>9 602</b>	<b>9 310</b>	<b>9 915</b>	<b>11 475</b>
% contribution	18.3	17.5	13.2	11.1	9.6	9.5	10.2	10.9
Hydro	1 991	3 057	2 656	3 805	3 083	2 861	3 092	4 454
Geothermal (transformation*)	69	74	65	81	134	140	375	421
Geothermal (direct use**)	364	437	618	898	914	1 011	1 249	1 402
Solar photovoltaic (transformation*)	-	-	-	-	-	-	-	-
Solar thermal (transformation*)	-	-	-	-	-	-	-	-
Solar thermal (direct use**)	28	143	262	402	420	420	429	300
Tide/wave/ocean	-	-	-	-	-	-	-	-
Wind	-	-	3	11	31	73	129	251
Municipal waste (renewable)	-	-	-	-	-	-	-	-
Solid biofuels	7 205	7 065	6 492	5 132	4 993	4 764	4 588	4 588
Biogasoline	-	-	-	-	-	6	6	6
Biodiesels	-	-	-	19	12	9	1	5
Other liquid biofuels	-	-	-	-	-	-	-	-
Biogases	-	-	5	8	15	26	47	47
<b>Non-renewable waste</b>	-	-	<b>15</b>	<b>28</b>	<b>34</b>	<b>22</b>	<b>25</b>	<b>25</b>
% contribution	-	-	0.0	0.0	0.0	0.0	0.0	0.0
Industrial waste	-	-	15	28	34	22	25	25
Municipal waste (non-renewable)	-	-	-	-	-	-	-	-
<i>Memo: total waste***</i>	-	-	15	28	34	22	25	25

## ELECTRICITY (GWh)

<b>TOTAL ELECTRICITY GENERATED</b>	<b>57 543</b>	<b>86 247</b>	<b>124 922</b>	<b>176 299</b>	<b>191 558</b>	<b>198 418</b>	<b>194 813</b>	<b>211 208</b>
% contribution of renewables and waste	40.4	41.6	25.0	25.3	19.1	17.4	19.6	26.4
<b>Renewables</b>	<b>23 228</b>	<b>35 849</b>	<b>31 154</b>	<b>44 522</b>	<b>36 457</b>	<b>34 421</b>	<b>38 141</b>	<b>55 713</b>
% contribution	40.4	41.6	24.9	25.3	19.0	17.3	19.6	26.4
Hydro (excl. pumped storage)	23 148	35 541	30 879	44 244	35 851	33 270	35 958	51 796
Geothermal	80	86	76	94	156	162	436	668
Solar photovoltaic	-	-	-	-	-	-	-	-
Solar thermal	-	-	-	-	-	-	-	-
Tide/wave/ocean	-	-	-	-	-	-	-	-
Wind	-	-	33	127	355	847	1 495	2 916
Municipal waste (renewable)	-	-	-	-	-	-	-	-
Solid biofuels	-	222	145	22	25	24	30	37
Liquid biofuels	-	-	-	-	-	-	-	-
Biogases	-	-	21	35	70	118	222	296
<b>Non-renewable waste</b>	-	-	<b>54</b>	<b>96</b>	<b>119</b>	<b>77</b>	<b>88</b>	<b>125</b>
% contribution	-	-	0.0	0.1	0.1	0.0	0.0	0.1
Industrial waste	-	-	54	96	119	77	88	125
Municipal waste (non-renewable)	-	-	-	-	-	-	-	-
<i>Memo: total waste***</i>	-	-	54	96	119	77	88	125

\* Primary energy used in the production of electricity and heat by main activity producers or autoproducers in electricity plants, CHP plants and heat plants (e.g. solar thermal power plants, geothermal power plants, etc.).

\*\* Primary energy used elsewhere than in transformation as described above (e.g. remote photovoltaic electricity production for households, heating of buildings/greenhouses by geothermal, etc.).

\*\*\* Includes municipal waste and industrial waste.

## United Kingdom

### Contribution from renewable energies and energy from waste

	1990	1995	2000	2006	2007	2008	2009	2010e
<b>TPES (ktoe)</b>								
<b>TOTAL PRIMARY ENERGY SUPPLY</b>	<b>205 920</b>	<b>216 264</b>	<b>222 936</b>	<b>218 985</b>	<b>210 259</b>	<b>208 143</b>	<b>196 762</b>	<b>204 234</b>
% contribution of renewables and waste	0.5	0.9	1.1	2.2	2.5	2.8	3.4	3.5
<b>Renewables</b>	<b>1 029</b>	<b>1 836</b>	<b>2 264</b>	<b>4 245</b>	<b>4 639</b>	<b>5 405</b>	<b>6 213</b>	<b>6 693</b>
% contribution	0.5	0.8	1.0	1.9	2.2	2.6	3.2	3.3
Hydro	448	416	437	395	438	444	453	306
Geothermal (transformation*)	-	-	-	-	-	-	-	-
Geothermal (direct use**)	1	1	1	1	1	1	1	1
Solar photovoltaic (transformation*)	-	-	-	1	1	1	2	2
Solar thermal (transformation*)	-	-	-	-	-	-	-	-
Solar thermal (direct use**)	10	10	11	36	45	56	69	69
Tide/wave/ocean	-	-	-	-	-	-	-	-
Wind	1	34	81	363	454	610	800	862
Municipal waste (renewable)	70	136	264	419	439	462	541	545
Solid biofuels	303	886	659	1 361	1 334	1 444	1 655	2 015
Biogasoline	-	-	-	48	77	104	151	316
Biodiesels	-	-	-	131	264	656	818	812
Other liquid biofuels	-	-	-	-	-	-	-	-
Biogases	196	354	810	1 491	1 586	1 625	1 724	1 765
<b>Non-renewable waste</b>	<b>58</b>	<b>164</b>	<b>189</b>	<b>499</b>	<b>519</b>	<b>444</b>	<b>463</b>	<b>489</b>
% contribution	0.0	0.1	0.1	0.2	0.2	0.2	0.2	0.2
Industrial waste	16	46	35	248	256	166	153	176
Municipal waste (non-renewable)	42	119	154	251	264	277	311	312
<i>Memo: total waste***</i>	<i>128</i>	<i>300</i>	<i>453</i>	<i>917</i>	<i>958</i>	<i>906</i>	<i>1 004</i>	<i>1 034</i>

### ELECTRICITY (GWh)

<b>TOTAL ELECTRICITY GENERATED</b>	<b>317 755</b>	<b>332 489</b>	<b>374 375</b>	<b>393 432</b>	<b>392 974</b>	<b>384 580</b>	<b>371 980</b>	<b>378 096</b>
% contribution of renewables and waste	1.9	2.2	2.8	5.2	5.5	6.1	7.3	7.2
<b>Renewables</b>	<b>5 811</b>	<b>6 871</b>	<b>9 970</b>	<b>18 108</b>	<b>19 654</b>	<b>21 581</b>	<b>25 224</b>	<b>25 334</b>
% contribution	1.8	2.1	2.7	4.6	5.0	5.6	6.8	6.7
Hydro (excl. pumped storage)	5 207	4 838	5 086	4 593	5 090	5 168	5 262	3 558
Geothermal	-	-	-	-	-	-	-	-
Solar photovoltaic	-	-	1	11	14	17	20	20
Solar thermal	-	-	-	-	-	-	-	-
Tide/wave/ocean	-	-	-	-	-	-	-	-
Wind	9	391	947	4 225	5 274	7 097	9 304	10 021
Municipal waste (renewable)	140	471	840	1 083	1 177	1 226	1 511	1 524
Solid biofuels	-	199	541	3 324	2 920	2 768	3 536	4 508
Liquid biofuels	-	-	-	-	-	-	-	-
Biogases	455	972	2 555	4 872	5 179	5 305	5 591	5 703
<b>Non-renewable waste</b>	<b>83</b>	<b>412</b>	<b>519</b>	<b>2 391</b>	<b>1 914</b>	<b>1 791</b>	<b>1 791</b>	<b>1 937</b>
% contribution	0.0	0.1	0.1	0.6	0.5	0.5	0.5	0.5
Industrial waste	-	-	-	1 741	1 207	1 055	917	1 058
Municipal waste (non-renewable)	83	412	519	650	707	736	874	879
<i>Memo: total waste***</i>	<i>223</i>	<i>883</i>	<i>1 359</i>	<i>3 474</i>	<i>3 091</i>	<i>3 017</i>	<i>3 302</i>	<i>3 461</i>

\* Primary energy used in the production of electricity and heat by main activity producers or autoproducers in electricity plants, CHP plants and heat plants (e.g. solar thermal power plants, geothermal power plants, etc.).

\*\* Primary energy used elsewhere than in transformation as described above (e.g. remote photovoltaic electricity production for households, heating of buildings/greenhouses by geothermal, etc.).

\*\*\* Includes municipal waste and industrial waste.

## United States

### Contribution from renewable energies and energy from waste

	1990	1995	2000	2006	2007	2008	2009	2010e
<b>TPES (ktoe)</b>								
<b>TOTAL PRIMARY ENERGY SUPPLY</b>	<b>1 914 996</b>	<b>2 067 213</b>	<b>2 273 332</b>	<b>2 296 686</b>	<b>2 337 014</b>	<b>2 277 034</b>	<b>2 162 915</b>	<b>2 234 995</b>
% contribution of renewables and waste	5.2	5.4	4.8	5.0	4.9	5.3	5.7	5.8
<b>Renewables</b>	<b>96 165</b>	<b>104 844</b>	<b>101 963</b>	<b>109 616</b>	<b>109 085</b>	<b>115 476</b>	<b>117 738</b>	<b>124 929</b>
% contribution	5.0	5.1	4.5	4.8	4.7	5.1	5.4	5.6
Hydro	23 491	27 014	21 776	25 101	21 467	22 077	23 701	22 289
Geothermal (transformation*)	13 765	12 844	12 569	7 714	7 751	7 858	7 947	8 186
Geothermal (direct use**)	336	406	519	925	1 036	244	219	226
Solar photovoltaic (transformation*)	-	-	16 e	63 e	86 e	104 e	146 e	146
Solar thermal (transformation*)	57	71	133	123	148	196	181	182
Solar thermal (direct use**)	-	-	1 440	1 279	1 325	1 369	1 375	1 385
Tide/wave/ocean	-	-	-	-	-	-	-	-
Wind	264	275	486	2 294	2 976	4 790	6 383	8 187
Municipal waste (renewable)	2 076	3 227	4 095	4 051	3 928	4 052	4 004	3 934
Solid biofuels	55 444	57 342	55 015	52 488	51 533	50 440	46 526	48 981
Biogasoline	..	2 644	2 934	10 500	13 191	18 550	21 142	25 257
Biodiesels	..	-	21	816	1 167	1 029	938	752
Other liquid biofuels	..	-	-	222	92	85	88	111
Biogases	732	1 022	2 960	4 040	4 386	4 681	5 089	5 293
<b>Non-renewable waste</b>	<b>4 003</b>	<b>6 294</b>	<b>8 207</b>	<b>6 229</b>	<b>6 380</b>	<b>5 650</b>	<b>6 017</b>	<b>4 594</b>
% contribution	0.2	0.3	0.4	0.3	0.3	0.2	0.3	0.2
Industrial waste	1 928	3 067	4 112	3 046	3 294	2 467	2 871	1 513
Municipal waste (non-renewable)	2 076	3 227	4 095	3 183	3 086	3 184	3 146	3 082
<i>Memo: total waste***</i>	<i>6 079</i>	<i>9 520</i>	<i>12 302</i>	<i>10 279</i>	<i>10 308</i>	<i>9 702</i>	<i>10 020</i>	<i>8 528</i>

### ELECTRICITY (GWh)

<b>TOTAL ELECTRICITY GENERATED</b>	<b>3 202 813</b>	<b>3 558 374</b>	<b>4 025 885</b>	<b>4 275 011</b>	<b>4 323 914</b>	<b>4 342 979</b>	<b>4 165 394</b>	<b>4 337 068</b>
% contribution of renewables and waste	11.8	11.1	8.6	9.6	8.7	9.3	10.6	10.2
<b>Renewables</b>	<b>369 241</b>	<b>384 343</b>	<b>330 364</b>	<b>395 209</b>	<b>361 814</b>	<b>391 021</b>	<b>428 695</b>	<b>434 255</b>
% contribution	11.5	10.8	8.2	9.2	8.4	9.0	10.3	10.0
Hydro (excl. pumped storage)	273 152	314 116	253 204	291 869	249 619	256 714	275 590	259 176
Geothermal	16 012	14 941	14 621	16 581	16 798	16 873	17 046	17 148
Solar photovoltaic	3	4	183 e	737 e	1 000 e	1 213 e	1 698 e	1 698
Solar thermal	663	824	526	550	673	878	816	816
Tide/wave/ocean	-	-	-	-	-	-	-	-
Wind	3 066	3 196	5 650	26 676	34 603	55 696	74 226	95 202
Municipal waste (renewable)	5 306 e	7 386	8 364	9 690	9 578	9 513	9 469	9 258
Solid biofuels	68 545	40 587	42 586	41 884	41 990	41 619	40 478	42 039
Liquid biofuels	-	-	-	164	84	88	91	97
Biogases	2 494	3 289	5 230	7 058	7 469	8 427	9 281	8 821
<b>Non-renewable waste</b>	<b>10 017</b>	<b>11 655</b>	<b>15 533</b>	<b>13 218</b>	<b>12 532</b>	<b>12 818</b>	<b>12 972</b>	<b>9 187</b>
% contribution	0.3	0.3	0.4	0.3	0.3	0.3	0.3	0.2
Industrial waste	4 710	4 268	7 170	5 605	5 006	5 344	5 532	1 904
Municipal waste (non-renewable)	5 307	7 387	8 363	7 613	7 526	7 474	7 440	7 283
<i>Memo: total waste***</i>	<i>15 323 e</i>	<i>19 041</i>	<i>23 897</i>	<i>22 908</i>	<i>22 110</i>	<i>22 331</i>	<i>22 441</i>	<i>18 445</i>

\* Primary energy used in the production of electricity and heat by main activity producers or autoproducers in electricity plants, CHP plants and heat plants (e.g. solar thermal power plants, geothermal power plants, etc.).

\*\* Primary energy used elsewhere than in transformation as described above (e.g. remote photovoltaic electricity production for households, heating of buildings/greenhouses by geothermal, etc.).

\*\*\* Includes municipal waste and industrial waste.

# MULTILINGUAL GLOSSARIES



## English

coal and peat  
 crude oil and NGL  
 oil products  
 natural gas  
 nuclear energy  
 hydro energy  
 geothermal energy  
 solar energy  
 wind energy  
 tide energy  
 biofuels and waste  
 electricity  
 heat  
 total energy

## Français

charbon et tourbe  
 pétrole brut et LGN  
 produits pétroliers  
 gaz naturel  
 énergie nucléaire  
 énergie hydraulique  
 énergie géothermique  
 énergie d'origine solaire  
 énergie d'origine éolienne  
 énergie des marées  
 biocarburants et déchets  
 électricité  
 chaleur  
 énergie totale

## Deutsch

Kohle und Torf  
 Rohöl und Kondensate  
 Ölprodukte  
 Erdgas  
 Kernenergie  
 Wasserkraft  
 Geothermischer Energie  
 Sonnenenergie  
 Windenergie  
 Gezeitenenergie  
 Biokraftstoffe und Abfälle  
 Elektrizität  
 Wärme  
 Total Energie

## Français

## Deutsch

1	Production	Produktion
2	Importations	Importe
3	Exportations	Exporte
4	Soutes maritimes internationales	Bunkerbestände der Internationalen Seeschifffahrt
5	Soutes aériennes internationales	Bunkerbestände der Internationalen Luftfahrt
6	Variation des stocks	Bestandsveränderungen
<b>7</b>	<b>APPROV. TOTAUX EN ENERGIE PRIMAIRE</b>	<b>GESAMTENERGIEAUFKOMMEN</b>
8	Transferts	Transfer
9	Ecarts statistiques	Statistische Differenzen
10	Centrales électriques	Elektrizitätswerke
11	Centrales de cogénération	Elektrizitäts- und Heizkraftwerke
12	Centrales calogènes	Heizkraftwerke
13	Hauts fourneaux	Hochöfen
14	Usines à gaz	Gaswerke
15	Cokeries/usines d'agglomérés/usines de briquettes de lignite	Koks- und Brikettfabriken
16	Raffineries de pétrole	Oelraffinerien
17	Usines pétrochimiques	Petrochemische Werke
18	Unités de liquéfaction	Verflüssigung
19	Autres transformations	Sonst. Umwandlungsbereich
20	Consommation propre de l'industrie énergétique	Energieindustrie Eigener Verbrauch
21	Pertes	Verluste
<b>22</b>	<b>CONSOMMATION FINALE TOTALE</b>	<b>ENDENERGIEVERBRAUCH</b>
<b>23</b>	<b>INDUSTRIE</b>	<b>INDUSTRIE</b>
24	Sidérurgie	Eisen- und Stahlindustrie
25	Industrie chimique et pétrochimique	Chemische Industrie
26	Métaux non ferreux	Ne-Metallerzeugung
27	Produits minéraux non métalliques	Glas- und Keramikindustrie
28	Matériel de transport	Fahrzeugbau
29	Construction mécanique	Maschinenbau
30	Industries extractives	Bergbau- und Steinbrüche
31	Industrie alimentaire et tabacs	Nahrungs- und Genussmittel
32	Papier, pâte à papier et imprimerie	Zellstoff, Papier, Pappeerzeugung
33	Bois et produits dérivés	Holz und Holzprodukte
34	Construction	Baugewerbe
35	Textiles et cuir	Textil- und Lederindustrie
36	Non spécifiés	Sonstige
<b>37</b>	<b>TRANSPORTS</b>	<b>VERKEHRS</b>
38	Aviation intérieure	Inland Luftverkehr
39	Transport routier	Straßenverkehr
40	Transport ferroviaire	Schienenverkehr
41	Transport par conduits	Rohrleitungen
42	Navigation intérieure	Binnenschifffahrt
43	Non spécifiés	Sonstige
<b>44</b>	<b>AUTRES</b>	<b>ANDERE</b>
45	Résidentiel	Wohnsektor
46	Commerce et services publics	Handel- und öffentliche Einrichtungen
47	Agriculture / sylviculture	Landwirtschaft / Forstwirtschaft
48	Pêche	Fischfang
49	Non spécifiés	Sonstige
<b>50</b>	<b>UTILISATIONS NON ENERGETIQUES</b>	<b>NICHTENERGETISCHER VERBRAUCH</b>
51	dans l'industrie/transformation/énergie	im Industrie-/Umwandlung-/Energiesektor
52	dont : produits d'alimentation	davon: Feedstocks
53	dans les transports	im Verkehr
54	dans les autres secteurs	in anderen Sektoren
<b>55</b>	<b>Electricité produite - TWh</b>	<b>Elektrizitätsproduktion - TWh</b>
56	Centrales électriques	Elektrizitätswerke
57	Centrales de cogénération	Elektrizitäts- und Heizkraftwerke
<b>58</b>	<b>Chaleur produite - PJ</b>	<b>Wärmeerzeugung - PJ</b>
59	Centrales de cogénération	Elektrizitäts- und Heizkraftwerke
60	Centrales calogènes	Heizkraftwerke

## English

coal and peat  
 crude oil and NGL  
 oil products  
 natural gas  
 nuclear energy  
 hydro energy  
 geothermal energy  
 solar energy  
 wind energy  
 tide energy  
 biofuels and waste  
 electricity  
 heat  
 total energy

## Italiano

carbone e torba  
 petrolio grezzo e LGN  
 prodotti petroliferi  
 gas naturale  
 energia nucleare  
 energia idroelettrica  
 energia geotérmica  
 energia solare  
 energia eolica  
 energia maremotrice  
 biocarburanti e rifiuti  
 energia elettrica  
 calore  
 energia totale

## 日本語

石炭 及び 泥炭  
 原油 及び NGL  
 石油製品  
 天然ガス  
 原子力  
 水力  
 地熱  
 太陽光  
 風力  
 潮力  
 バイオ燃料や廃棄物  
 電力  
 熱  
 総エネルギー

## Italiano

日本語  
Japanese

1	Produzione	国内生産
2	Importazioni	輸入
3	Esportazioni	輸出
4	Bunkeraggi marittimi internazionali	国際海運バンカー
5	Bunkeraggi aerei internazionali	国際航空バンカー
6	Variazioni di stock	在庫変動
<b>7</b>	<b>TOTALE RISORSE PRIMARIE</b>	<b>一次エネルギー国内供給計</b>
8	Ritorni e trasferimenti	品種振替
9	Differenza statistica	統計誤差
10	Centrali elettriche	電気事業者・自家発
11	Impianti di cogenerazione	コージェネレーション
12	Impianti di produzione di calore	熱供給事業者
13	Altiforni	高炉
14	Officine del gas	ガス業
15	Cokerie/fabbriche di agglomerati e bricchette o formelle di lignite	コークス・練豆炭
16	Raffinerie di petrolio	石油精製
17	Impianti petrochimici	石油化学
18	Liquefazione	液化
19	Altri settori di trasformazione	その他の転換
20	Autoconsumo dell'industria energetica	エネルギー産業自家消費
21	Perdite	ロス
<b>22</b>	<b>CONSUMI FINALI</b>	<b>最終エネルギー消費計</b>
<b>23</b>	<b>INDUSTRIA</b>	<b>産業</b>
24	Siderurgico	鉄鋼業
25	Chimico	化学工業
26	Metalli non ferrosi	非鉄金属
27	Minerali non metalllici	窯業土石
28	Equipaggiamento per trasporti	輸送用機械
29	Meccanico	金属機械
30	Estrattivo	鉱業
31	Alimentare e del tabacco	食料品・たばこ
32	Cartario e grafico	紙・パルプ
33	Legno e prodotti del legno	木製品
34	Costruzioni	建設業
35	Tessile e pelli	繊維工業
36	Non specificato	分類不明
<b>37</b>	<b>TRASPORTI</b>	<b>運輸</b>
38	Aviazione nazionale	国内航空輸送
39	Trasporti stradali	道路輸送
40	Trasporti ferroviari	鉄道
41	Trasporti per condotti	パイプライン輸送
42	Trasporti fluviali interni	内航海運
43	Non specificato	分類不明
<b>44</b>	<b>ALTRO</b>	<b>その他</b>
45	Domestico	民生・家庭
46	Commercio e servizi pubblici	民生・業務
47	Agricoltura / selvicoltura	農林業
48	Pesca	漁業
49	Non specificato	分類不明
<b>50</b>	<b>USI NON ENERGETICI</b>	<b>非エネルギー</b>
51	dell'industria	産業・転換・エネルギー産業
52	di cui: prodotti intermedi	(うちフィードストック)
53	dei trasporti	運輸
54	degli altri settori	その他
<b>55</b>	<b>Electricità Prodotta - TWh</b>	<b>発電量 - TWh</b>
56	Centrali elettriche	電気事業者・自家発
57	Impianti di cogenerazione	コージェネレーション
<b>58</b>	<b>Calore Prodotto - PJ</b>	<b>熱発生量 - PJ</b>
59	Impianti di cogenerazione	コージェネレーション
60	Impianti di produzione di calore	熱供給事業者

## English

coal and peat  
 crude oil and NGL  
 oil products  
 natural gas  
 nuclear energy  
 hydro energy  
 geothermal energy  
 solar energy  
 wind energy  
 tide energy  
 biofuels and waste  
 electricity  
 heat  
 total energy

## Español

carbón y turba  
 petróleo crudo y LGN  
 productos petrolíferos  
 gas natural  
 energía nuclear  
 energía hidráulica  
 energía geotérmica  
 energía solar  
 energía eólica  
 energía maremotriz  
 biocombustibles y residuos  
 electricidad  
 calor  
 energía total

## Русский

уголь и торф  
 сырая нефть/ Газ. конденсаты  
 нефтепродукты  
 природный газ  
 атомная энергия  
 гидроэнергия  
 геотермальная энергия  
 солнечная энергия  
 энергия ветра  
 энергия приливов  
 биотоплива и отходов  
 электричество  
 тепло  
 всего источников энергии

## Español

Русский  
Russian

1	Producción	Собственное производство
2	Importaciones	Импорт
3	Exportaciones	Экспорт
4	Búnkers marítimos internacional	международный бункер водных перевозок
5	Búnkers aéreos internacional	международный бункер авиационных перевозок
6	Cambio de stocks	Изменение остатков
<b>7</b>	<b>SUMINISTRO AL CONSUMO</b>	<b>ОБЩАЯ ПЕРВИЧНАЯ ПОСТАВКА ТОПЛИВА И ЭНЕРГИИ</b>
8	Transferencias	Передачи
9	Diferencias estadísticas	Статистическое расхождение
10	Central eléctrica	Электростанции
11	Central combinada de calor y electricidad	Тепло-электроцентрали
12	Central de calor	Теплоцентрали
13	Alto horno	Доменные печи
14	Gas ciudad	Газовые заводы
15	Plantas de coque/combustible 'patente'/BKB	Коксовые печи/Предпр-ия по пр-ву каменноуг./буроуг. брикетов
16	Refinerías de petróleo	Нефтеперерабатывающие заводы
17	Plantas de petroquímica	Нефтехимические заводы
18	Licuefacción	Ожижение
19	Otros sect. de transformación	Др. преобразование и переработка топлива
20	Consumos propios de la industria de energía	Собственное использование сектором энергетики
21	Pérdidas	Потери
<b>22</b>	<b>CONSUMO FINAL</b>	<b>КОНЕЧНОЕ ПОТРЕБЛЕНИЕ</b>
<b>23</b>	<b>INDUSTRIA</b>	<b>ПРОМЫШЛЕННОСТЬ</b>
24	Siderurgia	Черная металлургия
25	Químico	Химия и нефтехимия
26	Metales no féreos	Цветная металлургия
27	Minerales no metálicos	Неметалл. минералы
28	Equipos de transporte	Транспортное оборудование
29	Maquinaria	Машиностроение
30	Extracción y minas	Горнодобывающая промышленность
31	Alimentación y tabaco	Пищевая и табачная промышленность
32	Papel, pasta e impresión	Бум.-целл. и полиграф. пр-сть
33	Madera	Пр-во древесины и деревообработка
34	Construcción	Строительство
35	Textil y piel	Текст.-кожевенная пр-сть
36	No especificado	Др. отрасли промышленности
<b>37</b>	<b>TRANSPORTE</b>	<b>ТРАНСПОРТ</b>
38	Transporte aéreo interno	Внутренний воздушный транспорт
39	Transporte por carretera	Автомобильный транспорт
40	Ferrocarril	Железнодорожный транспорт
41	Oleoducto	Транспортировка по трубопроводам
42	Navegación interna	Внутренний водный транспорт
43	No especificado	Неспецифицированный транспорт
<b>44</b>	<b>SECTORES</b>	<b>ДРУГИЕ</b>
45	Residencial	Бытовой сектор
46	Comercio y serv. públicos	Торговля и услуги
47	Agricultura / selvicultura	Сельское хозяйство / Лесное хозяйство
48	Pesca	Рыболовство
49	No especificado	Неспецифицированные другие секторы
<b>50</b>	<b>USOS NO ENERGETICOS</b>	<b>НЕЭНЕРГЕТИЧЕСКОЕ ИСПОЛЬЗОВАНИЕ</b>
51	en la industria/tranf./energia	в промышленности/преобраз.-переработке/топл.-энергетике
52	incl.: prod. de aliment.	в т.ч. П/фабрикаты нефтепереработки
53	en el transporte	в транспорте
54	en otros sectores	в других секторах
<b>55</b>	<b>Electr. Producida - TWh</b>	<b>Производство электроэнергии - Твт.ч</b>
56	Central Eléctrica	Электростанции
57	Central combinada de calor y electricidad	Тепло-электроцентрали
<b>58</b>	<b>Calor producido - PJ</b>	<b>Производство тепла - ПДж</b>
59	Central combinada de calor y electricidad	Тепло-электроцентрали
60	Central de calor	Теплоцентрали

## English

coal and peat  
crude oil and NGL  
oil products  
natural gas  
nuclear energy  
hydro energy  
geothermal energy  
solar energy  
wind energy  
tide energy  
biofuels and waste  
electricity  
heat  
total energy

## 中文

煤和泥炭  
原油和液态天然气  
石油产品  
天然气  
核能  
水能  
地热能  
太阳能  
风能  
潮汐能  
生物燃料和废物  
电力  
热能  
能源合计

# 中文

## Chinese

1	本国产量
2	进口
3	出口
4	国际海运加油
5	国际航空
6	库存变化
<b>7</b>	<b>转换</b>
8	统计差额
9	发电厂
10	热电联产厂
11	热力厂
12	高炉气厂
13	高炉气厂
14	制气厂
15	炼焦 / 专用燃料 / 褐煤型煤厂
16	炼油厂
17	石油化学厂
18	液化厂
19	其它转换
20	其它转化
21	能源工业自用
<b>22</b>	<b>最终消费合计 (TFC)</b>
<b>23</b>	<b>工业</b>
24	钢铁
25	化学和石化
26	有色金属
27	非金属矿物
28	交通设备
29	机械工业
30	采矿和挖掘
31	食品和烟草
32	纸、纸浆和印刷
33	木材和木材制品
34	建筑业
35	纺织和皮革
36	其它
<b>37</b>	<b>交通运输</b>
38	国内航空
39	公路运输
40	铁路运输
41	管道运输
42	国内海运
43	其它
<b>44</b>	<b>其它</b>
45	居民消费
46	商业和公共事业
47	农业林业
48	捕鱼业
49	其它
<b>50</b>	<b>非能源使用</b>
51	工业 / 转化 / 能源
52	其中: 用做原料
53	交通
54	其它
<b>55</b>	<b>发电 (10<sup>9</sup>千瓦时)</b>
56	发电厂
57	热电联产厂
<b>58</b>	<b>供热 (10<sup>12</sup>焦)</b>
59	热电联产厂
60	热力厂



# Energy Data Manager / Statistician

Possible Staff Vacancies

International Energy Agency, Paris, France

## The IEA

The International Energy Agency, based in Paris, acts as energy policy advisor to 34 member countries in their effort to ensure reliable, affordable and clean energy for their citizens. Founded during the oil crisis of 1973-74, the IEA's initial role was to co-ordinate measures in times of oil supply emergencies. As energy markets have changed, so has the IEA. Its mandate has broadened to incorporate the "Three E's" of balanced energy policy making: energy security, economic development and environmental protection. Current work focuses on climate change policies, market reform, energy technology collaboration and outreach to the rest of the world, especially major consumers and producers of energy like China, India, Russia and the OPEC countries.

The Energy Statistics Division, with a staff of around 30 people, provides a dynamic environment for young people just finishing their studies or with one to two years of work experience.

## Job description

The data managers/statisticians compile, verify and disseminate information on all aspects of energy including production, transformation and consumption of all fuels, renewables, the emergency reporting system, energy efficiency indicators, CO<sub>2</sub> emissions, and energy prices and taxes. The data managers are responsible for receiving, reviewing and inputting data submissions from Member countries and other sources into large computerised databases. They check for completeness, correct calculations, internal consistency, accuracy and consistency with definitions. Often this entails proactively investigating and helping to resolve anomalies in collaboration with national administrations of Member and Non-Member countries. The data managers/statisticians also play a key role in helping to design and implement computer macros used in the preparation of their energy statistics publication(s).

## Principal Qualifications

- University degree in a topic relevant to energy, computer programming or statistics. We currently have staff with degrees in Mathematics, Statistics, Information Technology, Economics, Engineering, Physics, Chemistry, Environmental Studies, Hydrology, Public Administration and Business.
- Experience in the basic use of databases and computer software. Good computer programming skills in Visual Basic.
- Ability to work accurately, pay attention to detail and work to deadlines. Ability to deal simultaneously with a wide variety of tasks and to organise work efficiently.
- Good communication skills; ability to work well in a team and in a multicultural environment, particularly in liaising with contacts in national administrations and industry.
- Very good knowledge of one of the two official languages of the Organisation (English or French). Knowledge of other languages would be an advantage.
- Some knowledge of energy industry operations and terminology would also be an advantage, but is not required.

Nationals of any OECD Member country are eligible for appointment. Basic salaries start at 3 050 Euros per month. The possibilities for advancement are good for candidates with appropriate qualifications and experience. Tentative enquiries about future vacancies are welcomed from men and women with relevant qualifications and experience. Applications in French or English, accompanied by a curriculum vitae, should be sent to:

Personnel and Finance Division  
International Energy Agency  
9 rue de la Fédération  
75739 Paris Cedex 15, France  
Email: [recruitment@iea.org](mailto:recruitment@iea.org)

## On-Line Data Services

Users can instantly access not only all the data published in this book, but also all the time series used for preparing this publication and all the other statistics publications of the IEA. The data are available on-line, either through annual subscription or pay-per-view access. More information on this service can be found on our website: <http://data.iea.org>

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## Ten Annual Publications

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### ■ Energy Statistics of OECD Countries, 2011 Edition

No other publication offers such in-depth statistical coverage. It is intended for anyone involved in analytical or policy work related to energy issues. It contains data on energy supply and consumption in original units for coal, oil, natural gas, biofuels/waste and products derived from these primary fuels, as well as for electricity and heat. Complete data are available for 2008 and 2009 and supply estimates are available for the most recent year (*i.e.* 2010). Historical tables summarise data on production, trade and final consumption. Each issue includes definitions of products and flows and explanatory notes on the individual country data.

*Published July 2011 - Price €120*

### ■ Energy Balances of OECD Countries, 2011 Edition

A companion volume to *Energy Statistics of OECD Countries*, this publication presents standardised energy balances expressed in million tonnes of oil equivalent. Energy supply and consumption data are divided by main fuel: coal, oil, natural gas, nuclear, hydro, geothermal/solar, biofuels/waste, electricity and heat. This allows for easy comparison of the contributions each fuel makes to the economy and their interrelationships through the conversion of one fuel to another. All of this is essential for estimating total energy supply, forecasting, energy conservation, and analysing the potential for interfuel substitution. Complete data are available for 2008 and 2009 and supply estimates are available for the most recent year (*i.e.* 2010). Historical tables summarise key energy and economic indicators as well as data on production, trade and final consumption. Each issue includes definitions of products and flows and explanatory notes on the individual country data as well as conversion factors from original units to tonnes of oil equivalent.

*Published July 2011 - Price €120*

### ■ Energy Statistics of Non-OECD Countries, 2011 Edition

This publication offers the same in-depth statistical coverage as the homonymous publication covering OECD countries. It includes data in original units for more than 100 individual countries and nine main regions. The consistency of OECD and non-OECD countries' detailed statistics provides an accurate picture of the global energy situation for 2008 and 2009. For a description of the content, please see *Energy Statistics of OECD Countries* above.

*Published August 2011 - Price €120*

### ■ **Energy Balances of Non-OECD Countries, 2011 Edition**

A companion volume to the publication *Energy Statistics of Non-OECD Countries*, this publication presents energy balances in thousand tonnes of oil equivalent and key economic and energy indicators for more than 100 individual countries and nine main regions. It offers the same statistical coverage as the homonymous publication covering OECD countries, and thus provides an accurate picture of the global energy situation for 2008 and 2009. For a description of the content, please see *Energy Balances of OECD Countries* above.

*Published August 2011 - Price €120*

### ■ **Electricity Information 2011**

This reference document provides essential statistics on electricity and heat for each OECD member country by bringing together information on production, installed capacity, input energy mix to electricity and heat production, input fuel prices, consumption, end-user electricity prices and electricity trades.

*Published August 2011 - Price €150*

### ■ **Coal Information 2011**

This well-established publication provides detailed information on past and current evolution of the world coal market. It presents country-specific statistics for OECD member countries and selected non-OECD countries on coal production, demand, trade and prices. This publication represents a key reference tool for all those involved in the coal supply or consumption stream, as well as institutions and governments involved in market and policy analysis of the world coal market.

*Published August 2011 - Price €165*

### ■ **Natural Gas Information 2011**

A detailed reference work on gas supply and demand, covering not only the OECD countries but also the rest of the world. Contains essential information on LNG and pipeline trade, gas reserves, storage capacity and prices. The main part of the book, however, concentrates on OECD countries, showing a detailed gas supply and demand balance for each individual country and for the three OECD regions, as well as a breakdown of gas consumption by end-user. Import and export data are reported by source and destination.

*Published August 2011 - Price €165*

### ■ **Oil Information 2011**

A comprehensive reference book on current developments in oil supply and demand. The first part of this publication contains key data on world production, trade, prices and consumption of major oil product groups, with time series back to the early 1970s. The second part gives a more detailed and comprehensive picture of oil supply, demand, trade, production and consumption by end-user for each OECD country individually and for the OECD regions. Trade data are reported extensively by origin and destination.

*Published August 2011 - Price €165*

### ■ Renewables Information 2011

This reference document brings together in one volume essential statistics on renewables and waste energy sources. It presents a detailed and comprehensive picture of developments for renewable and waste energy sources for each of the OECD member countries, encompassing energy indicators, generating capacity, electricity and heat production from renewable and waste sources, as well as production and consumption of renewable and waste products.

*Published August 2011 - Price €110*

### ■ CO<sub>2</sub> Emissions from Fuel Combustion, 2011 Edition

In order for nations to tackle the problem of climate change, they need accurate greenhouse gas emissions data. This publication provides a basis for comparative analysis of CO<sub>2</sub> emissions from fossil fuel combustion, a major source of anthropogenic emissions. The data in this book are designed to assist in understanding the evolution of the emissions of CO<sub>2</sub> from 1971 to 2009 for more than 140 countries and regions by sector and by fuel. Emissions were calculated using IEA energy databases and the default methods and emissions factors from the *Revised 1996 IPCC Guidelines for National Greenhouse Gas Inventories*.

*Published November 2011 - Price €165*

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## Two Quarterlies

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### ■ Oil, Gas, Coal and Electricity, Quarterly Statistics

This publication provides up-to-date, detailed quarterly statistics on oil, coal, natural gas and electricity for the OECD countries. Oil statistics cover production, trade, refinery intake and output, stock changes and consumption for crude oil, NGL and nine selected oil product groups. Statistics for electricity, natural gas and coal show supply and trade. Import and export data are reported by origin and destination. Moreover, oil as well as hard coal and brown coal production are reported on a worldwide basis.

*Published Quarterly - Price €120, annual subscription €380*

### ■ Energy Prices and Taxes

This publication responds to the needs of the energy industry and OECD governments for up-to-date information on prices and taxes in national and international energy markets. It contains prices at all market levels for OECD countries and certain non-OECD countries: import prices, industry prices and consumer prices. The statistics cover the main oil products, natural gas, coal and electricity, giving for imported products an average price both for importing country and country of origin. Every issue includes full notes on sources and methods and a description of price mechanisms in each country.

*Published Quarterly - Price €120, annual subscription €380*

## Electronic Editions

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### ■ CD-ROMs and Online Data Services

To complement its publications, the Energy Statistics Division produces CD-ROMs containing the complete databases which are used for preparing the statistics publications. State-of-the-art software allows you to access and manipulate all these data in a very user-friendly manner and includes graphic facilities. These databases are also available on the internet from our online data service.

#### Annual CD-ROMS / Online Databases

- |   |                                    |
|---|------------------------------------|
| ■ Energy Statistics of OECD Countries, 1960-2010            | Price: €550 (single user)          |
| ■ Energy Balances of OECD Countries, 1960-2010              | Price: €550 (single user)          |
| ■ Energy Statistics of Non-OECD Countries, 1971-2009        | Price: €550 (single user)          |
| ■ Energy Balances of Non-OECD Countries, 1971-2009          | Price: €550 (single user)          |
| ■ <i>Combined subscription of the above four series</i>     | <i>Price: €1 400 (single user)</i> |
| ■ Electricity Information 2011                              | Price: €550 (single user)          |
| ■ Coal Information 2011                                     | Price: €550 (single user)          |
| ■ Natural Gas Information 2011                              | Price: €550 (single user)          |
| ■ Oil Information 2011                                      | Price: €550 (single user)          |
| ■ Renewables Information 2011                               | Price: €400 (single user)          |
| ■ CO <sub>2</sub> Emissions from Fuel Combustion, 1971-2009 | Price: €550 (single user)          |

#### Quarterly CD-ROMs / Online Databases

- |                           |   |
|---------------------------|---|
| ■ Energy Prices and Taxes | Price: (four quarters) €900 (single user) |
|---------------------------|---|

A description of these services are available on our website: <http://data.iea.org>

## Other Online Services

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### ■ The Monthly Oil Data Service

The IEA Monthly Oil Data Service provides the detailed databases of historical and projected information which is used in preparing the IEA's monthly *Oil Market Report* (OMR). The IEA Monthly Oil Data Service comprises three packages available separately or combined as a subscriber service on the Internet. The data are available at the same time as the official release of the Oil Market Report.

The packages include:

- |                                       |                                    |
|---------------------------------------|------------------------------------|
| ■ Supply, Demand, Balances and Stocks | Price: €6 000 (single user)        |
| ■ Trade                               | Price: €2 000 (single user)        |
| ■ Field-by-Field Supply               | Price: €3 000 (single user)        |
| ■ <i>Complete Service</i>             | <i>Price: €9 000 (single user)</i> |

A description of this service is available on our website: <http://www.iea.org/stats/mods.asp>

## ■ The Monthly Gas Data Service

The service provides monthly natural gas data for OECD countries:

- supply balances in terajoules and cubic metres;
- production, trade, stock changes and levels where available, gross inland deliveries, own use and losses;
- highly detailed trade data with about 50 imports origins and exports destinations;
- LNG trade detail available from January 2002.

The databases cover the time period January 1984 to current month with a time lag of two months for the most recent data.

- Monthly Gas Data Service: Natural Gas Balances & Trade  
*Historical plus 12 monthly updates* Price: €800 (single user)

For more information consult: <http://data.iea.org>

**Moreover, the IEA statistics website contains key energy indicators by country, graphs on the world and OECD's energy situation evolution from 1971 to the most recent year available, as well as selected databases for demonstration.**

**The IEA statistics website can be accessed at [www.iea.org/statistics/](http://www.iea.org/statistics/)**

# Notes



International  
Energy Agency

# Online bookshop

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**2011**  
EDITION

## **ENERGY BALANCES OF OECD COUNTRIES**

This volume contains data on the supply and consumption of coal, oil, natural gas, electricity, heat, renewables and waste presented as comprehensive energy balances expressed in million tonnes of oil equivalent. Complete data are available for 2008 and 2009 and supply estimates are available for the most recent year (i.e.2010). Historical tables summarise production, trade and final consumption data as well as key energy and economic indicators. The book also includes definitions of products and flows, explanatory notes on the individual country data and conversion factors from original units to energy units.

More detailed data in original units are published in the 2011 edition of *Energy Statistics of OECD Countries*, the sister volume of this publication.

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ISBN 978-92-64-10307-8

