



Electricity information

Electricity information

with 2015 data **2016**

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 29 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
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TABLE OF CONTENTS

INTRODUCTION	v
---------------------------	----------

KEY TRENDS	ix
-------------------------	-----------

PART I: EXPLANATORY NOTES

1. Definitions of products and flows	I.3
2. Sources and notes	I.17
3. Geographical coverage	I.21
4. Conversion factors and calorific values	I.25

PART II: WORLD AND OECD OVERVIEW

Figure 1: World electricity and energy production 1974 - 2014	II.3
Table 1.0: World energy balance, 2014.....	II.4
Table 1.1: World electricity production, imports, exports, final consumption, 2014	II.5
Table 1.2: World gross electricity production, by source, 2014	II.9
Table 1.3: World gross electricity production from combustible fuels, 2014.....	II.13
Table 1.4: World gross heat production from combustible fuels, 2014	II.17
Table 1.5: World fuel use for electricity and heat production, 2014.....	II.21
Table 2.0: OECD energy balance, 2014	II.25
Table 2.1: OECD electricity production, imports, exports, gross supply, 2015p.....	II.26
Table 2.2: OECD gross electricity production, by source, 2015p.....	II.27
Table 2.3: OECD gross electricity production from combustible fuels, 2015p	II.28
Table 2.4: OECD gross heat production from combustible fuels, 2015p	II.29
Table 2.5: OECD electricity generating capacity, 1974 - 2014	II.30
Table 2.6: OECD electricity consumption, 1974 - 2014.....	II.34
Table 2.7: OECD final consumption of heat, 1990 - 2014	II.35
Table 2.8a: OECD electricity imports, by country, 1974 - 2015p	II.36
Table 2.8b: OECD electricity exports, by country, 1974 - 2015p	II.37

PART III: OECD DETAILED ELECTRICITY AND HEAT DATA

Directory of Part III graphs and tables	III.3
OECD Total.....	III.5
OECD Americas.....	III.19
OECD Asia Oceania.....	III.33
OECD Europe.....	III.47
IEA Total.....	III.61
Australia	III.75
Austria	III.85
Belgium	III.99
Canada	III.113
Chile	III.127
Czech Republic.....	III.139
Denmark	III.153
Estonia.....	III.167
Finland.....	III.181

France	III.195
Germany	III.209
Greece.....	III.223
Hungary	III.237
Iceland	III.251
Ireland.....	III.263
Israel	III.275
Italy.....	III.285
Japan.....	III.299
Korea	III.311
Luxembourg	III.323
Mexico.....	III.337
Netherlands.....	III.349
New Zealand.....	III.363
Norway	III.375
Poland.....	III.389
Portugal	III.403
Slovak Republic	III.417
Slovenia	III.431
Spain.....	III.445
Sweden	III.457
Switzerland.....	III.471
Turkey	III.485
United Kingdom	III.497
United States.....	III.511
Country specific net calorific values	III.527
Country notes.....	III.533

PART IV: PRICES

Figure 1.1: Indices of real energy end-use prices, OECD	IV.3
Figure 1.2: Indices of real energy end-use prices, OECD Europe.....	IV.3
Figure 1.3: Indices or real energy end-use prices, United States.....	IV.4
Figure 1.4: Indices of real energy end-use prices, Japan.....	IV.4
Table 1.1: OECD indices of real energy prices for end-users.....	IV.5
Table 1.2: OECD Europe indices of real energy prices for end-users	IV.5
Table 1.3: United States of America indices of real energy prices for end-users	IV.6
Table 1.4: Japan indices of real energy prices for end-users.....	IV.6
Table 2a: Electricity prices for industry in US dollars/MWh	IV.7
Table 2b: Electricity prices for industry in national currency/MWh	IV.7
Table 2c: Electricity prices for households in US dollars/MWh	IV.8
Table 2d: Electricity prices for households in national currency/MWh.....	IV.8
Table 2e: Electricity prices for households in US dollars/MWh, converted with purchasing power parities.....	IV.9
Table 3a: Heavy fuel oil prices for electricity generation in US dollars/tonne	IV.10
Table 3b: Heavy fuel oil prices for electricity generation in national currency/tonne	IV.10
Table 4a: Steam coal prices for electricity generation in US dollars/tonne	IV.11
Table 4b: Steam coal prices for electricity generation in national currency/tonne	IV.11
Table 5a: Natural gas prices for electricity generation in US dollars/MWh, gross calorific value basis.....	IV.12
Table 5b: Natural gas prices for electricity generation in national currency/MWh, gross calorific value basis	IV.12

INTRODUCTION

IEA *Electricity Information 2016* is the latest edition of an annual publication¹ intended to provide sound market information on electricity and heat to policy and market analysts and those employed in all sectors of the electricity industry.

This monitoring and reporting of historical trends and current energy market situation provides a strong foundation for policy and market analysis to better inform the policy decision process toward selecting policy instruments that are best suited to meet domestic and/or international objectives.

IEA *Electricity Information 2016* brings together in one volume the basic statistics compiled by the IEA on electricity and heat production. It also includes information on installed capacity, consumption, trade and prices.

This introduction is followed by important information that will assist the reader in correctly using the data in this publication.

OECD data are taken from IEA/OECD databases of Energy Statistics that are based on annual submissions from OECD Member countries to the secretariat.

Non OECD data are based on information collected by the IEA secretariat, national submissions to the United Nations in Geneva and New York, and national energy publications. The Energy Data Centre of the IEA secretariat works closely with national administrations to secure consistency in time series and with IEA product definitions and reporting conventions. The finalized data provide the basis for IEA/OECD *World Energy Balances* and *World Energy Statistics*. These publications contain methodologies and more

detail on individual non-member countries covered in the publication.

Price data are derived from IEA/OECD *Energy Prices and Taxes*. Readers should consult this publication for detailed information on data coverage and sources.

While every effort is made to ensure the accuracy of the data, quality is not homogeneous throughout the publication. In some countries data are based on secondary sources, and where incomplete or unavailable, on estimates. In general, data are likely to be more accurate for production, trade and total consumption than for individual sectors in transformation or final consumption.

General issues of data quality, as well as country notes and sources, should always be consulted when using data.

Data were collected by the team in the Energy Data Centre (EDC) of the IEA Secretariat, headed by Duncan Millard.

Within the IEA, for OECD members: electricity, coal and renewable data were prepared, respectively, by Loïc Coënt, Julian Smith and Dae Yong Kwon, under the responsibility of Vladimir Kubeczek; oil and natural gas data were prepared, respectively, by Federico De Luca and Claire Morel; Ivo Letra and Roman Wisznia, under the responsibility of Erica Robin; energy balances data were prepared by Rémi Gigoux, under the responsibility of Roberta Quadrelli. Non-OECD countries statistics were prepared by Emmanouil Christinakis, Markus Fager-Pintilä, Nikolaos Kordevas, Beatriz Martínez, Klaus Pedersen and Arnaud Pincet, under the responsibility of Céline Rouquette.

Vladimir Kubeczek has the overall responsibility for this report. The publication and its statistics were produced by Loïc Coënt and Gianluca Tonolo. Desktop publishing was carried out by Sharon Burghgraeve.

1. This document is without prejudice to the status of or sovereignty over any territory, to the delimitation of international frontiers and boundaries and to the name of any territory, city or area. In this publication, "country" refers to a country or a territory, as the case may be.

We would like to thank our numerous contacts worldwide in national administrations and in public and private companies for their helpful co-operation.

World electricity and heat production, supply and consumption are available on a CD-ROM, which also provides for each of the 34 OECD member countries details on installed capacity, input energy mix to electricity and heat production and electricity trade. Information on ordering the CD-ROM and other energy statistics publications is available at the end of this book and on the IEA website at www.iea.org/statistics.

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 www.iea.org.

Further information on reporting methodologies is also available on the IEA website.

Enquiries about data, methodology, or comments and suggestions should be addressed to:

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E-mail: eleaq@iea.org

What's new

Structure reorganization

In this edition, with a purpose to unify the design of the annual fuel information books, the book structure has changed. The *key trends* were moved to introduction part from Part II and consequently Part III became Part II and Part IV became Part III. The *prices* data part was moved to a new separated part IV. Several changes listed below have also caused the table order to be reviewed, so please consult the directory of table III to find the new position of the information.

This publication has also been reviewed to provide more useful information in a more concise format. Should you be missing any information that was previously published, please address your enquiry at ELEAQ@iea.org.

Changes in tables

Some tables showing only the total OECD previously included in the summary part are now shown in the detailed OECD data part.

In the summary part, new tables have been added showing the World and OECD energy balances.

The *Monthly net electricity supply by country* tables were removed and the data is still freely available on the IEA webpage.

In this edition, the breakdown of coal products was amended and now shows *Steam coal, Lignite, Coal manufactured gases* and *Other coal products*. The total *combustible fuels* was also added in several tables.

The order of countries in the Summary world tables was reviewed for more clarity, and Suriname is now shown separately.

In the detail OECD data part, the *summary electricity production and consumption* now shows the full electricity balance, and a new table showing the heat balance was added.

The years in the table have been reviewed to show by default 1974, 1990, 2000, 2005, 2010, 2013, 2014 and 2015. In most of these tables, average annual growth rates have been added, and show by default the growth between the years 1974 and 2000 and between the years 2000 and 2015

Electricity and heat production by source now shows the total of all plants and then auto-producers as an *of-which* item.

Similarly, the *Net maximum electricity generating capacity on 31 December* table now shows the total of all plants, followed by *of-which* auto-producers.

The *Capacity factors* table has been added.

The *Fuel use for electricity and heat generation from combustible fuel* table was removed and the information can be found in the table 6a, b and c *Electricity/heat production from combustible fuel in electricity/CHP/Heat only plants*.

Imputed energy for electricity and heat production from non-combustible fuel table was removed and will now only figures in the IEA/OECD *World Energy Balances*.

The tables *final consumption of energy by source* and *Total final consumption of energy and electricity* were replaced by two new tables showing the share of electricity in total final consumption and share of heat in total final consumption.

The prices for *electricity, heavy fuel oil, steam coal and natural gas* in US dollar (per commonly used unit) is now completed by the prices in national currency (per commonly used unit). Conversion factors for *US Dollars/National currency* and *Purchasing power parities National currency/US Dollars* were removed and will now only be reported in the IEA/OECD *Energy Prices and Taxes*.

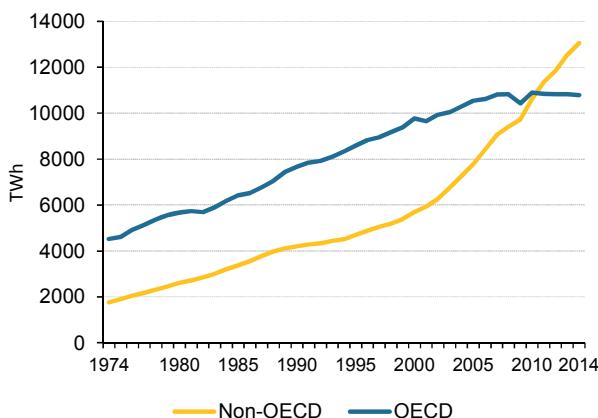
KEY ELECTRICITY TRENDS

ELECTRICITY SUMMARY

Production

Between 1974 and 2014, world gross electricity production increased from 6 287 TWh to 23 815 TWh, an average annual growth rate of 3.4%. It was 1.9% higher than 2013. The growth was positive for a fifth year in a row after the economic crisis in OECD countries caused a visible decline in global production between 2008 and 2009.

Figure 1: Total gross electricity production

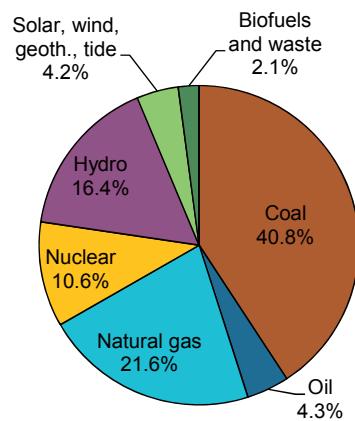


The increasing share of non-OECD countries in total world electricity production reflects the higher average growth rate which has prevailed in the non-OECD regions, since 2000. From 1974 to 2000, electricity production has increased at an average annual rate of 3.0% in OECD countries, and 4.6% in non-OECD countries. However from 2000 to 2014, the average annual growth was only 0.7% in OECD countries while it was 6.1% in non-OECD countries. In 2011 non-OECD electricity production exceeded OECD

production for the first time. In 2014, the non OECD countries represented 54.7% of the world electricity generation, against only 28.1% in 1974.

In 2014, 66.7% of world electricity production was from fossil fuel generating plants. Hydroelectric plants provided 16.4%, nuclear plants 10.6%, biofuels and waste 2.1%, and geothermal, solar, wind and other sources made up the remaining 4.2%.

Figure 2: World gross electricity production, by source, 2014



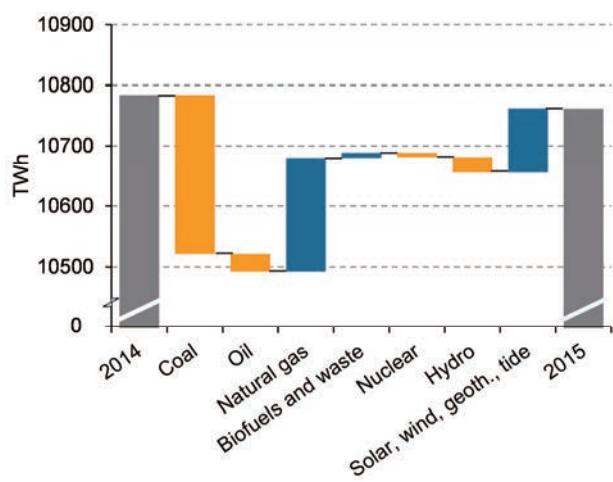
OECD production

Gross electricity production in the OECD (including generation from pumped storage plants) reached 10 822 TWh in provisional 2015 figures. This represents a decrease of 0.2% compared to 2014. The OECD Electricity generation has been generally decreasing since 2010, with total OECD electricity production in 2015 lower than its 2007 level.

Between 2014 and 2015, there was a decrease in electricity production from fossil fuels notably coal (-7.6%), and oil (-10.6%). Nuclear energy slightly decreased (-0.4%). Meanwhile, electricity from natural gas (+7.2%), and renewable sources such as wind (+16.0%),

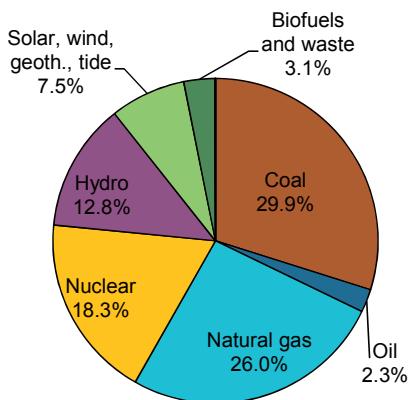
solar (+17.8%) and biofuels (+2.5%) have increased. Hydroelectricity also slightly decreased (-1.9%).

Figure 3: OECD gross electricity production variation 2014-2015



In 2015, nuclear plants accounted for 18.3% of total OECD gross electricity production, hydroelectric plants 12.8%, total combustible fuel¹ plants 61.3% (made up of 58.2% from fossil-fuel-fired plants and 3.1% from biofuels and waste plants) and geothermal, solar, wind and other plants 7.5%.

Figure 4: OECD gross electricity production, by source, 2015



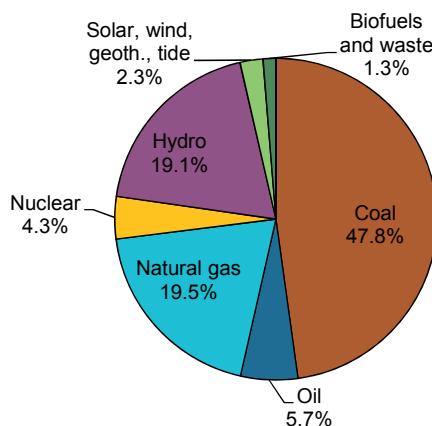
1. Combustible fuels refer to fuel that are capable of igniting or burning, i.e. reacting with oxygen to produce a significant rise in temperature. Fuels included are: coal and coal products, oil and oil products, natural gas, biofuels including solid biomass and animal products, gas/liquids from biomass, industrial waste and municipal waste.

Non-OECD production

While complete statistics are not available for electricity production in all non-OECD countries for 2015, comprehensive data are available for 2014. Gross electricity production in 2014 in non-OECD countries was 13 056 TWh, an increase of 4.2% on the 2013 level, in contrast to a decrease of 0.5% in the gross production of the OECD countries between 2013 and 2014.

In 2014, 73.0% of non-OECD electricity production was generated from fossil fuels, and 1.3% from biofuels and wastes, 19.1% was provided by hydroelectric plants, 4.3% by nuclear plants and 2.3% by geothermal/solar/wind energy.

Figure 5: Non-OECD gross electricity production, by source, 2014



OECD capacity

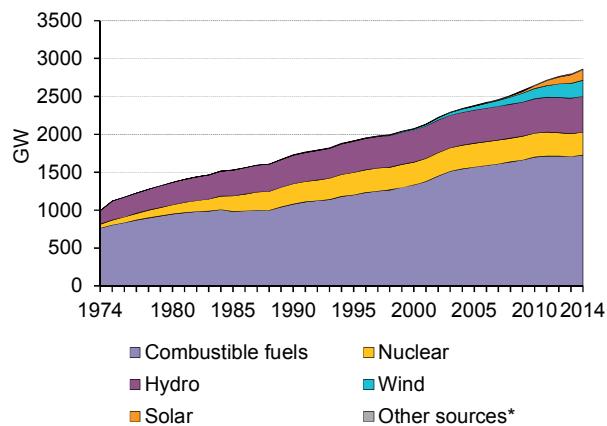
Capacity data are available only for OECD countries and up to the year 2014.

In 2014, the OECD countries reported 2 862 GW of total installed capacity, a 2.3% increase from 2013. This consisted of 1 725 GW of plants fired by fossil and other combustible fuels, 302 GW nuclear power, 472 GW hydroelectric power (including pumped storage capacity), 214 GW of wind, 137 GW of solar (of which 132 GW solar photovoltaic) and 12 GW of geothermal, tide/wave/ocean and other capacity combined. A total of 65.1 GW capacity was added in 2014 with the biggest contributors being solar PV (34.5%), wind (29.4%), and combustible fuel (28.5 %), mostly composed of natural gas plants (21.4%).

Total generating capacity in the OECD increased at an average annual rate of 2.9% between 1974 and 2000, with nuclear, hydroelectric and combustible fuel

capacity increasing by average annual rates of 6.9%, 3.4%, and 2.2%, respectively. By comparison, between 2000 and 2014 the total generating capacity increased at an average annual rate of 2.3%, with nuclear broadly unchanged (+0.0%), hydro-electric and combustible fuels increasing by 1.0%, and 1.9%, respectively. However, in this period there were substantial additions of solar PV and wind capacity, increasing at an average annual rate of 44.6% and 17.4%, respectively, as many countries began to invest in renewable energy resources.

Figure 6: OECD net electrical capacity by source



* includes geothermal, tide, wave, ocean, chemical heat and other non-specified (e.g. fuel cells) sources of electricity production.

The slower overall growth of total capacity additions is partly attributable to economic change, which has resulted in the growth of less energy intensive service industries. The OECD-wide pattern of electric power capacity and production conceals large differences between countries. These differences reflect different resource endowments and economics of electricity generation, as well as different policy approaches between countries.

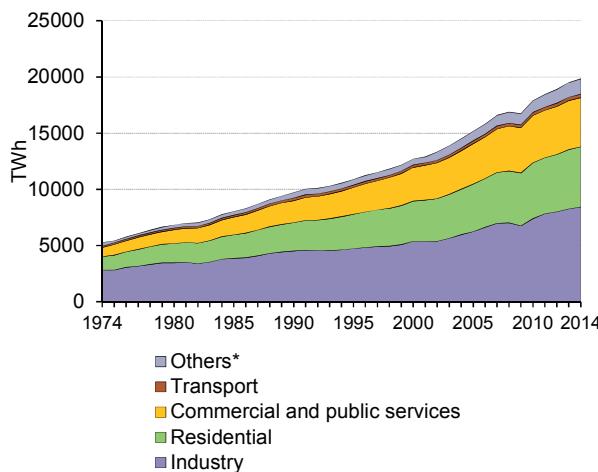
Consumption

The world total final electricity consumption in 2014 reached 19841 TWh, an increase of 1.7% over 2013 figure. The average growth rate of electricity final consumption in the world since 1974 was 3.4%.

OECD consumption

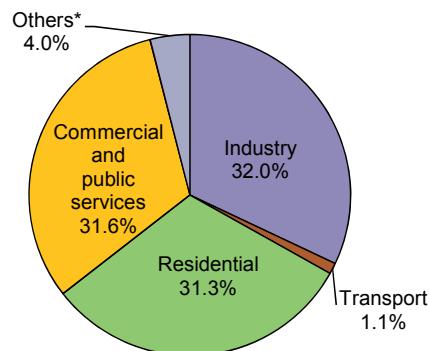
In 2014, total final electricity consumption was 9 320 TWh, a decrease of 0.6% compared to 2013. Provisional data for 2015 show gross supply of electricity in the OECD was 9 300TWh, a 0.2% decrease compared to 2014.

Figure 7: World electricity final consumption by sector



* includes Agriculture and forestry, fishing, and other non-specified

Figure 8: OECD electricity final consumption by sector, 2014



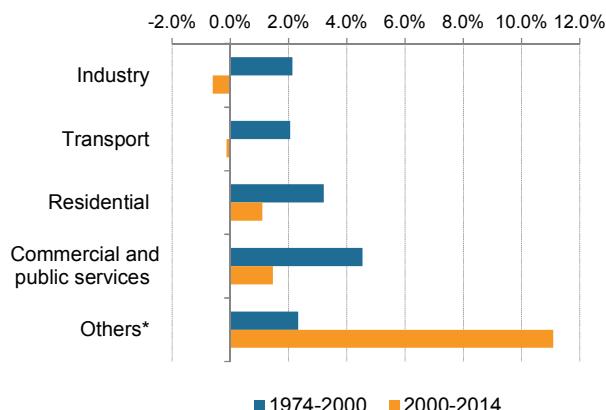
* includes Agriculture and forestry, fishing, and other non-specified

Much of the growth in OECD electricity consumption since 1974 has taken place in the residential and commercial/public service sectors. The combined share of total consumption of the residential and commercial/public service sectors increased from 48.4% in 1974 to 63.0% in 2014. Although the amount of electricity consumed in industry increased from 1 874 TWh in 1974 to 2 983 TWh in 2014, its share of total electricity consumption in the OECD fell from 48.8% in 1974 to 32.0% in 2014. Some OECD countries show different consumption patterns, such as Korea where 53.3% of electricity was consumed in the industry sector in 2014, and only 12.9% in the residential sector.

Industry has been the most significant end-use sector for electricity consumption during many years. However, it has lost its premium position in 2009 to commercial

and public services and residential. The low rates of economic growth, the structural change and the improvements in efficiency in energy intensive manufacturing and processing industries resulted in the relatively low growth rates since 1974 in the industry sector electricity consumption compared to the residential and commercial and public services sectors. These three sectors since 2009 reach comparable level of electricity consumption. OECD industrial electricity consumption decreased by 0.5% in 2014, indicating that the recovery of the industry from the economic crisis is over. The largest decreases in 2014 were seen in the paper, pulp and printing sector (-11.2%). While the largest increases in 2014 have been witnessed in the wood and wood products sector (+5.2%).

Figure 9: OECD average annual growth rate in electricity final consumption by sector



* includes Agriculture and forestry, fishing, and other non-specified

The transport (mainly rail), agriculture (mainly irrigation pumps) and fishing sectors are relatively small consumers of electricity. However, the road transport sector witnessed since 2010 double digit growths (+19.6% in 2014) underling the increasing electrification of the transport sector.

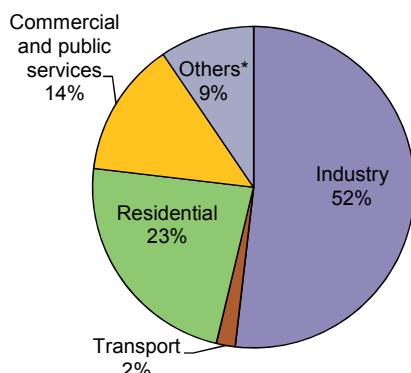
Non-OECD consumption

In 2014, final electricity consumption, in non-OECD countries was 10 520 TWh, an increase of 3.9% from the observed consumption in 2013. Between 1974 and 2014 final electricity consumption increased at an average annual rate of 5.1%. Non-OECD countries' share of world electricity final consumption increased from 26.0% in 1973 to 53.0% in 2014.

The four highest consumers of electricity in non-OECD countries in 2014, the People's Republic of China, India, the Russian Federation and Brazil, represent 65.6% of non-OECD electricity consumption.

The largest share is represented by the People's Republic of China at 44.8%.

Figure 10: Non-OECD electricity final consumption by sector, 2014



* includes Agriculture and forestry, fishing, and other non-specified

Transmission and distribution losses represent in 2014 10.5% of electricity supply for non-OECD countries, while it was 6.6% for OECD countries. Due also to non-technical losses, total transmission and distribution losses can reach over 25% of the electricity supply in some non-OECD countries such as Haiti, Congo, Honduras, Paraguay, Myanmar and Iraq, to name a few.

Trade

Transfers of electricity between utilities in neighbouring regions have been common for many years. Exchanges based on differences in national production costs between regions are economically efficient, and fluctuations in load can be balanced by exchanges with neighbouring utilities with different load profiles. Such exchanges reduce the overall reserve margins needed by diversifying the potential sources of supply. Surplus capacity in a neighbouring region can result not only from simple differences in load timing, but also from differences in climate (e.g. seasonal peaks or renewable resources), economic structure, or the timing of forced and scheduled unit outages.

Often when reporting electricity flows, countries use electricity trade as a "balancing" item. This leads to considerable variation in import and export data. In addition, the transmission and distribution line losses between net importers and net exporters are difficult to determine. Both of these factors lead to differences between reported net imports and net exports in trading countries.

OECD electricity trade

OECD imports of electricity grew from 88 TWh in 1974 to 510 TWh in 2015, an average annual growth rate of 4.3%. OECD exports of electricity grew from 81 TWh in 1974 to 511 TWh in 2015, an average annual growth rate of 4.5%.

Figure 11: OECD Europe electricity imports and exports

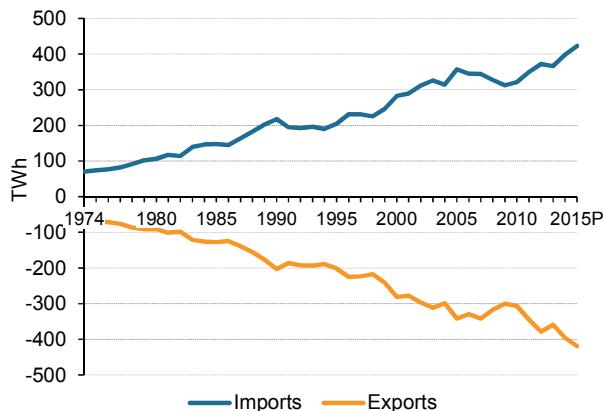
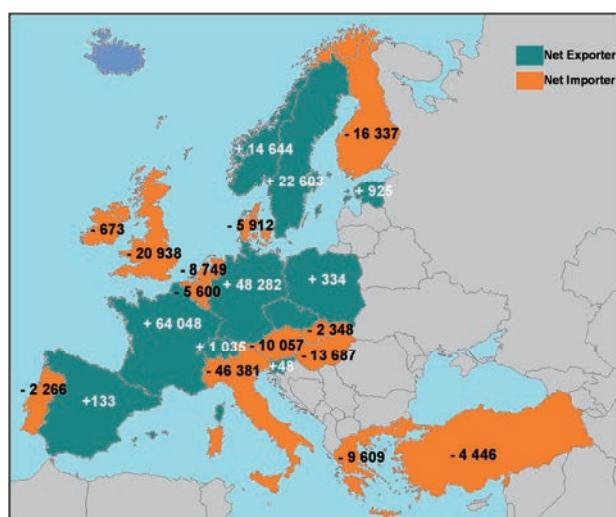


Figure 12: OECD Europe net importers and exporters of electricity (GWh)



Substantial trade in electricity occurs in OECD Europe, principally between OECD countries, and in OECD Americas. In OECD Europe, electricity imports grew at an average annual rate of 4.5% between 1974 and 2015. In OECD Americas, total imports increased by an average annual rate of 3.9% between 1974 and 2015. The trade can be used sometime to

compensate lower generation, in Greece for example the net imports increased by 6 TWh between 2013 and 2014, as the net production decreased by the same amount. A similar pattern can be seen in the UK and Belgium from 2013.

Non-OECD electricity trade

When considered as a single entity, non-OECD countries were net importers of electricity. In 2014, these countries reported electricity imports of 238 TWh and electricity exports of 215 TWh, resulting in net imports of 23 TWh.

Outside of the OECD there is substantial electricity trade between Russia, Kyrgyzstan, Turkmenistan, Ukraine and other countries of the former Soviet Union. These countries export significant quantities of electricity to net importing countries such as Belarus, Moldova, and Latvia as well as to countries in central and Western Europe.

In South America, electricity produced by large hydroelectric plants in Paraguay is exported to Brazil and Argentina (in 2014, net exports from Paraguay were 41.4 TWh).

In Africa, there is significant trade in the southern portion of the continent. South Africa exports a significant amount of power to Zimbabwe. Mozambique, which has been a net electricity importer, became a net exporter in 1998 as a new hydro project came into service. In 2014, net exports of South Africa were 2.7 TWh, and net exports of Mozambique were 2.5 TWh.

India imports a significant amount of electricity (5.0 TWh of net imports in 2014), a substantial part of which is produced by hydro facilities in Bhutan.

OECD prices

Average real electricity price in the OECD decreased by 0.3% in 2015 from 2014 levels. Prices for industry decreased by 0.6% and prices for households increased by 0.1%.

Electricity prices for consumers vary widely across OECD countries. Based on available 2015 data, electricity prices for industry were the lowest in the Norway (35.34 USD per MWh), while they were the highest in Italy (263.33 USD per MWh). Electricity prices for households varied from 75.33 USD per MWh in Mexico to 337.38 USD per MWh in Denmark.

ELECTRICITY PRODUCTION AND INSTALLED CAPACITY BY SOURCE

OECD production and installed capacity

Based on 2015 provisional data and estimations, OECD gross supply of electricity was 10 822 TWh, a 0.3% decrease from the 2014 level. (Detailed information on observed electricity consumption for the OECD in 2015 is unavailable at the time of finalization).

OECD regional electricity trends

Each region's natural endowment of resources and availability of imported resources, affect the mixture of inputs for electricity generation. Inputs are also affected by government policies related to environmental compliance, energy security, the availability of investment capital for energy technologies and infrastructure, and perceived risks associated with different technologies.

Between 2000 and 2015, the largest average annual growth in percentage in the OECD has been solar energy (+39.4%) and wind (+22.0%). Geothermal electricity generation increased as well (+2.8%). Hydro has increased very moderately (+0.1%). Nuclear electricity generation has declined on the overall OECD (-0.9%) with a strong decrease in OECD Asia-Oceania following the Fukushima disaster and a slower decrease in OECD Europe (-0.6%) while it has slightly increased in OECD Americas (+0.5%). Within combustible fuel, electricity generation from oil has declined in every region at an overall average rate of 6.1% per annum, and the generation from coal decreased as well by 1.1% overall despite an increase in the OECD Asia-Oceania region (+2.2%), while natural gas use for electricity generation increased overall by 4.1%, mostly in OECD Americas (+5.5%) and Asia Oceania (+4.6%). Electricity generation from biofuels and wastes increased by 5.9%, mostly in OECD Asia-Oceania (+9.6%) and OECD Europe (+9.9%). In absolute terms, the largest increase in 2015 over 2014 in the OECD total was natural gas (+187.9 TWh), then wind energy (+78.1 TWh), followed by solar (+27.7 TWh). The largest absolute decrease was coal (-263 TWh) then oil (-29.3 TWh).

Average annual growth of electricity generation by source in OECD regions from 2000 to 2015 in %

Source	Americas	Asia Oceania	Europe	Total
Total	0.6	0.9	0.6	0.6
Coal	-2.4	2.2	-0.8	-1.1
Oil	-6.7	-4.6	-7.7	-6.1
Natural gas	5.5	4.6	0.8	4.1
Biofuels and wastes	0.6	9.6	9.9	5.9
Nuclear	0.5	-5.9	-0.6	-0.9
Hydro	0.2	-0.4	0.2	0.1
Geothermal	1.3	3.4	6.0	2.8
Solar	28.0	37.4	56.6	39.4
Wind	27.7	32.1	19.3	22.0
Other	40.5	23.5	7.7	13.1

OECD capacity trends

In 2014, the OECD countries reported 2 861 GW of total installed capacity, adding 65.1 GW to the 2013 level with the biggest positive contributors being solar PV (22.5 GW), wind (19.1 GW), and hydro (3.9 GW).

Combustible fuels

In 2015, electricity production from combustible fuels (fossil-fuels and biofuels and waste in both electricity and CHP plants) was 6 601 TWh and accounted for 61.0% of total gross electricity produced in OECD countries. In 1974, combustible fuel-fired power plants produced 3 356 TWh and accounted for 71.8% of total gross electricity produced. In the period 1974 to 2000, electricity production from combustible fuels increased more slowly than total production, as a large amount of nuclear capacity was added. This trend reversed after 1985 when electricity production from combustible fuels began growing at a faster rate and nuclear capacity additions began to slow. In the period 2000 to 2015 electricity production from combustible fuels increased at a 0.5% annual rate, slightly lower than the 0.6% rate for total electricity production. Not only has its share varied over the years, but the type of combustible fuel used for electricity generation in electricity and CHP plants has also varied greatly over time.

In the period 1974 to 2000 combustible fuel-fired capacity increased at an average annual rate of 2.2%, close to the 1.9% witnessed between 2000 and 2014.²

2. The capacity data should be viewed with caution since a large group of the OECD countries (Canada, Czech Republic, France, Germany, the Netherlands and Spain) did not submit the breakdown of combustible fuels by fuel type.

Coal

Electricity production from coal sources, which include coal, peat, coal derived gases and oil shale and oil sands, was 3 215 TWh in 2015, a 7.6% decrease from the electricity produced in 2014. The loss of electricity production from coal sources in 2015 was mainly compensated by increased production from renewables. This decrease has resulted in electricity production from coal in 2015 falling below its 1994 level. The peak in coal sources electricity happened in 2007 when 4 005 TWh were produced. While some of this decline is attributed to the decline in total electricity production in 2009 due to the financial crisis, the prices of natural gas also became more competitive relative to coal and renewables have taken an always bigger share of electricity production. There are exceptions to this such as Korea where electricity generation from coal kept increasing (+4TWh from 2014 to 2015). In Netherlands, the electricity generation from coal increased by 8 TWh from 2014 to 2015, partly to compensate for the decrease in generation from natural gas and for increasing exports to Belgium and to the UK. OECD coal-fired capacity at the end of 2014 was 492 GW¹ (-0.4% compared with 2013) or 18.5% of total OECD capacity

Oil

In 2015, liquid fuel-fired (including refinery gas) electricity and CHP plants produced 248 TWh of electricity, contributing 3.8% of OECD combustible fuel-fired production and 2.3% of total gross OECD electricity production. This was a decrease of 10.6% from the 277 TWh produced in 2014. OECD oil-fired capacity at the end of 2014 was 142 GW¹ or 5.0% of total OECD capacity.

Natural gas

In 2015, natural gas-fired electricity and CHP plants produced 2 803 TWh of electricity, contributing 42.5% of OECD combustible fuel-fired production, which is 25.9% of total gross OECD electricity production. Natural gas-fired electricity was decreasing in 2013 and 2014 mainly due to more competitive coal prices and lower carbon prices in Europe. However in 2015 it returned to its 2012 level. OECD gas-fired capacity³ at the end of 2014 was 690 GW¹ or 24.1% of total OECD capacity. The United States have seen a substantial shift in the fuel mix which began as a result of low natural gas prices in the U.S.

during the shale revolution. Comparing the fuel mix before and after the shale revolution, we can see that coal-fired power plants are used less in favour of natural gas-fired plants. From 2014 to 2015, the generation from coal decreased by 239 TWh while the generation from Natural gas increased by 212 TWh. We can also see in Mexico an increase in electricity generation from natural gas of more than 12 TWh from 2014 to 2015.

Biofuels and waste

This category of fuels comprises the non-fossil fuels that are used for electricity and/or heat production. The category is divided into five sub-categories: solid biofuels, industrial waste, municipal waste (renewable and non-renewable), biogases (landfill gas, sewage sludge gas and other biogases) and liquid biofuels (biodiesel, biogasoline and other liquid biofuels).

The available data on the use of these fuels for electricity generation continues to improve. The rapid development of statistics in this area has caused some data revisions from one year to the next. This results in major breaks in the series between years as new data series begin to be collected and reported to the IEA. Long term analysis of trends in the use of these fuels must take into account these statistical difficulties.

In 2015, biofuels and waste were used in electricity and CHP plants to produce 336 TWh of electricity, contributing 5.1% of OECD production using only combustible fuels and 3.1% of OECD total electricity production from all sources. This was slightly higher than the 328 TWh produced in 2014. Electricity production from biofuels and waste has increased most rapidly since 1992, when efforts to reduce CO₂ emissions from fossil fuels were formalised. Capacity at the end of 2014 was 31 GW¹, representing 1.1% of total OECD capacity.

Nuclear power

Nuclear power plants in the OECD produced 1 973 TWh of electricity in 2015, accounting for 18.2% of total gross electricity production, 7 TWh less than in 2014.

After the accident at the Fukushima plant in Japan in 2011, Japan nuclear electricity production reached zero in October 2013 and nuclear plant started operation in 2015 again. Germany also continued following this decreasing trend (-5.5%) and the annual generation has been reduced by already 75 TWh (or 45%) since 2006. In Belgium, the electricity generation from nuclear power decreased between 2010 and 2014

3. Includes capacity from gas works gas plants.

by almost 22 GWh (or 45.6%), causing a sharp decline (-28.4%) in the inland electricity generation over this period, which was compensated mostly by larger imports of electricity, from Netherlands and France.

OECD nuclear electricity production increased at an average annual rate of 9.0% between 1974 and 2000. This growth mainly reflects new capacity additions in the 1970s (between 7 and 14 GW per year) and the 1980s (between 6 and 25 GW per year). Since the growth peaked in 1985, annual additions have declined sharply and fewer orders have been placed. The highest level of nuclear capacity was reached in 2011 (315.2 GW).

In 2014, total nuclear power capacity in the OECD was 302 GW and accounted for 10.6% of generating capacity.

Of the 18 OECD countries with nuclear capacity, three countries had a 50% or higher share of nuclear electricity production in total gross production in 2014. The share is as high as 76.9% in France, 57.5% in the Slovak Republic and 52.4% in Hungary.

Hydroelectric power

Hydroelectric plants produced 1 436 TWh, or 13.3% of total gross production in the OECD in 2015.

In 2014, total OECD hydroelectric capacity was 472 GW and accounted for 16.5% of net maximum installed electric capacity in the OECD. Hydroelectric development in the OECD is fairly matured so suitable and environmentally acceptable sites are increasingly difficult to locate and would likely yield lower load factors than the capacity in place. As a result, growth of the OECD's hydroelectric capacity has slowed since 1990. A recent and noticeable exception is Turkey, which produced 65% more electricity from hydro in 2015 than in 2014, which was a dry year. This allowed Turkey to decrease its use of natural gas for electricity generation in 2015.

Geothermal, solar, wind, ocean power and other sources

In 2015, electricity production from geothermal, solar, tide, wave, wind and other sources increased by 15.1%, totalling 812 TWh or 7.5% of total gross electricity production. Of this, 566 TWh was from wind, 183 TWh from solar, 50 TWh from geothermal and 12 TWh from tide, wave, ocean and other sources. Production of electricity from wind sources has expanded significantly since the mid-1980s, increasing with an average annual growth rate from 2000 to 2015

of 22.0%. Solar photovoltaic electricity production increased at an average rate of 39.4% from 2000 to 2015 with particularly strong year-on-year growth in the last few years. Production of geothermal electricity increased at an average annual rate of 6.2% between 1974 and 2000, and 2.8% from 2000 to 2015. In 2015, production from tide, wave and ocean power was 1.0 TWh, while production from other sources (including electricity generated from waste heat, heat from chemical processes and fuel cells) was 11.5 TWh.

In 2014, OECD countries reported electricity generating capacity of 7 GW of geothermal, 133 GW of solar PV, 4 GW of solar thermal, 214 GW of wind and 5 GW of tide, wave, ocean and other sources. The overall capacity addition from this group of technologies in 2014 was 43 GW, an increase of 13.3% from 2013. Solar PV electricity generating capacity witnessed the addition of 23 GW in 2014, an increase of 20.3%. An additional 19 GW of wind capacity was connected in 2014, an increase of 9.8%. In OECD Europe 11 GW of wind capacity was installed in 2014, taking the wind capacity above the nuclear capacity. In Germany, wind energy became in 2015 the third source for electricity generation, after coal and nuclear and has produced only 3 TWh less than nuclear. In Spain it was the second source for electricity generation in 2014. In Denmark, the wind electricity generation has doubled since 2010 (+6 TWh) while the generation from combustible fuels was divided by 2 (-17 TWh).

Non-OECD production

Gross electricity production in 2014 in non-OECD countries (including generation from pumped storage plants) was 13 056 TWh, an increase of 4.2% from the level reported in 2013. Gross electricity production by non-OECD countries increased at an average annual rate of 5.1% between 1974 and 2014. Non-OECD countries' share of world electricity production increased from 28.1% in 1974 to 54.8% in 2014 as most of these economies have developed and they have also continued to expand their electricity grids (nationally and internationally).

Combustible fuels

Electricity production from electricity and CHP plants that use combustible fuels (including fossil fuels and biofuels and waste) was 9 680 TWh in 2014. Combustible fuels comprised, by far, the largest component of non-OECD countries' gross electricity production in 2014, with a share of 74.2%.

Coal

As with the OECD countries, hard coal is the leading source of electricity production in non-OECD countries. In 2014, electricity production from steam coal-fired electricity and CHP plants was 5 855 TWh, contributing 61.0 % of combustible fuel-fired production.

Electricity production from all coal sources, including lignite, coal gases and other coal products and peat, was 6 150 TWh in 2014, contributing 47.1% of total gross electricity production.

Oil

Liquid fuel-fired (including refinery gas) electricity and CHP plants produced 746 TWh of electricity, contributing 7.8% of combustible fuel-fired generation in 2014. Electricity from oil has become less important in non-OECD countries over time, with its share of total generation declining gradually from 23.0% in 1973, when the world experienced the first major oil disruption to 5.7% in 2014.

Natural gas

In 2014, natural gas-fired electricity and CHP plants produced 2 540 TWh of electricity, contributing 26.5% of combustible fuel-fired generation or 19.5% of total gross electricity production. The proportion of electricity produced with natural gas increased until the mid-1980s and has since stayed around 20%, indicating that natural gas generation is growing at about the same rate as total generation.

Biofuels and waste

In 2014, biofuels and waste were used in electricity and CHP plants to produce 165 TWh of electricity, contributing 1.7% of combustible fuel-fired generation. Electricity generation from this source has grown more slowly than that from other sources and so its share of total gross electricity generation decreased from 1.5% in 1973 to 1.3% in 2014.

Hydroelectric power

Hydroelectric plants produced 2 519 TWh in 2014 a growth of 4.5% over 2013, it represented 19.3% of total gross production reported for non-OECD countries. The average annual growth since 2000 was 4.9%.

Nuclear power

Nuclear power plants produced 555 TWh or 4.2% of total gross production reported for non-OECD countries for 2014. Nuclear generation growth in non-OECD countries expanded very rapidly from 1973 to 1985. Since then, however, growth has been noticeably lower.

Geothermal, solar, tide, wave and wind power

Excluding hydroelectricity, non-combustible renewable energy represents only a fraction of total electricity production in non-OECD countries. In 2014 302 TWh, or 2.3% of total reported electricity production was provided by wind solar, geothermal, tide, wave and other power facilities.

ELECTRICITY CONSUMPTION

OECD consumption

Total final consumption of electricity refers to gross electricity production minus electricity used at power plants (own use) plus imports minus exports minus electricity used for pumped storage, heat pumps and electric boilers, minus transmission and distribution losses. Accordingly, total final electricity consumption is significantly lower than gross supply data reported above.

OECD electricity total final consumption has grown from 3 974 TWh in 1974 to 9 597 TWh in 2014 representing an average annual increase of 2.2% .

The rate of growth in electricity consumption varies widely among OECD countries. Between 1960 and 1973 the annual average rate of growth of electricity consumption exceeded 10% in Denmark, Greece, Iceland, Japan, Spain and Turkey. Since 1973, the growth in electricity consumption has slowed considerably. The only countries that experienced average annual growth rates over 5% are Korea (9.3%), Turkey (7.5%), Chile (5.5%), Iceland (5.3%) and Mexico (5.2%).

OECD final use of fuels

In 2014, 22.0% (801.4 Mtoe) of total final consumption of energy in the OECD countries was met by electricity and about 1.6% (57 Mtoe) by heat. Crude oil and petroleum products held a 47.3% share of final consumption (1 720 Mtoe), natural gas 20.2% (736 Mtoe), coal 3.1% (113 Mtoe), biofuels and waste 5.5% (201 Mtoe), and geothermal and solar 0.3% (10.2 Mtoe).

Between 1960 and 1973 electricity consumption in end-use markets grew at an average annual rate of 7.8%. The average rate of growth was significantly lower between 1973 and 2014, at 2.0%. Over both periods, electricity consumption growth significantly exceeded the growth in total final energy consumption, thereby increasing the share of electricity in total final energy consumption.

In the industry sector over the period 1960 to 1973, the increased use of petroleum products, natural gas and electricity displaced coal, and to a lesser extent biofuels and waste. Over this period, total final consumption in this sector increased by an average annual rate of 4.2%. However, despite total final consumption in the industry sector decreasing at an average annual rate of 0.7% from 1973 to 2014, electricity consumption continued to grow, averaging an annual rate of growth of 0.8%, compared to 6.6% in the period 1960 to 1973.

Since 1960, the fastest growing market for electricity has been the commercial/public service sector. Final consumption of electricity in this sector increased at an average annual rate of 10.0% between 1960 and 1973, and at 3.3% between 1973 and 2014. This compares to annual average growth rates for petroleum products in the same sector of 10.6% between 1960 and 1973, but an overall decline in the period 1973 to 2014 of 2.4%. For natural gas, the annual average growth rate in this sector was 8.1% between 1960 and 1973 and 1.7% between 1973 and 2014.

Electricity has also substantially increased its market share in the residential sector with an average annual growth rate of 9.4% between 1960 and 1973, and a slower rate of 2.3% from 1973 to 2014. Between 1960 and 1973 electricity, natural gas, and petroleum products replaced a large share of coal in end-use, and between 1973 and 2014 heat, electricity, and biofuels replaced shares of coal and petroleum products.

OECD ELECTRICITY PRICES

In 2015, the OECD average real⁴ electricity price decreased by 0.8% for industry and increased by 0.2% for households. The overall decrease was of 0.3%. The overall OECD price trends, though, mask different trends in the different OECD regions.

For example, electricity prices in OECD Europe for industry and for households both increased by 0.5% from the 2014 level.

In Mexico, in 2015, real electricity price for industry decreased by 22.9% and for households by 2.9%, yielding an overall average decrease of 18.5%. These figures are strongly affected by the decrease in prices of primary fuel used in electricity generation, heavy fuel oil and natural gas notably.

Electricity prices for industry

In 2015, average electricity prices in US dollars per MWh for industrial consumers (in countries for which data are available) increased in the OECD by 0.4%. Changes in prices measured in local currencies may be quite different since the direct effect of exchange rate changes with the US dollar is not incorporated.

Data on prices in local currencies are published quarterly in *Energy Prices & Taxes* and are shown in part IV of this book for individual countries.

Electricity prices for industrial consumers vary widely across OECD countries. Based on 2015 data, prices were the lowest in Norway (35.34 USD per MWh), while they were the highest in Italy (263.33 USD per MWh).

Electricity prices for households

In 2014, electricity prices in USD per MWh for household consumers (in countries for which data are available), increased in the OECD by 0.4%.

Electricity prices for household consumers also vary widely across OECD countries. Based on data that are

available for 2014, prices varied from 70.33 USD per MWh in Mexico to 337.37 USD per MWh in Denmark.

Prices of competing fuels

Steam coal, natural gas and fuel oil are the main fuels used in the production of electricity in power plants that use combustible fuels.

Based on data that are available for 2015, steam coal prices for electricity generation varied from 31.92 USD per tonne in Turkey to 92.30 USD per tonne in Austria (Israel data not yet available but probably higher). The variations in prices reflect, in part, the degree to which domestic supply costs differ from international market prices and the relative importance of domestic supply sources, as well as transport costs from supply sources to end use markets. In 2014, average steam coal price for the OECD decreased by 4.1% to USD 63.63 per tonne.

Natural gas prices (reported in gross calorific value) also vary between OECD countries. Based on data that are available for 2015, prices varied from USD 10.99 per MWh in the United States to USD 46.26 per MWh in the Slovak Republic. Prices decreased in all countries for which 2015 data have been reported, driven by the “shale gas revolution” in the United States. In 2014, the last year for which complete data are available, average natural gas price for the OECD increased by 8.2%, from USD 18.73 per MWh to USD 20.27 per MWh.

In 2015, prices for heavy fuel oil varied (for those countries for which data are available) between USD 260.36 per tonne in Mexico to USD 603.45 per tonne in Turkey. In 2015, heavy fuel oil prices decreased from the 2014 level in all of the six countries that reported data. This indicates that the growth evidenced since 2010, from the dip experienced in 2009 due to the economic crisis, is continue to reverse after 2014. In 2009, the OECD average heavy fuel oil price for electricity generation fell 31.0% from 2008 levels but rebounded in 2010. The price increased from USD 469 per tonne in 2010 to USD 670 per tonne in 2012 and decreased to USD 604 per tonne in 2013. This sharp increase from 2010 to 2013 can be attributed to the increasing demand for heavy fuel oil after the accident at the Fukushima Daiichi power plant.

4. Real price indices are the current price indices divided by the country specific producer price index for industrial prices and by the consumer price index for the household sector. See Principles and Definitions for further details on methods used. Specific producer and consumer price indices are based on year 2010=100.

HEAT SUMMARY

Production

World heat production, which was sold to third parties, was 13 295 PJ in 2014. Of the reported 2014 world heat production, 21.4% was in OECD member countries. However, it should be noted that data collection for heat is more complex than for electricity due to different reasons (measurements and reporting issues).

Total OECD heat production in provisional 2015 figures was 3 001 PJ, an increase of 1.0% from the level reported in 2014. The majority of heat production came from combustible fuels, 72.3% coming from fossil fuels (42.9% from gas, 24.5% from coal and 5.0% from oil) and 24.2% coming from biofuels and waste.

In 2014, total non-OECD heat production was 10 448 PJ. Around 78.8% of the reported world heat production in 2014 was in non-OECD countries, with the Russian Federation accounting for 39.0% of the world figure.

OECD heat production

In OECD countries (as in other market economies), data collected on heat production are generally confined to main activity producers, *i.e.* units whose primary activity is to generate energy for public consumption. Data on heat produced by autoproducers relate only to the quantity of heat produced for sale to third parties. The quantity of heat produced and consumed by autoproducers for their own use is not generally measured, although the fuel used to produce the heat is generally measured and available.

The term “district heat” refers to a particular end-use market for heat. Heat produced and distributed for district heating and other purposes can be produced in CHP plants or in plants designed to only produce heat (called here heat plants). It is then supplied to buildings or homes from a central source through a network of pipes carrying hot water or steam.

In 2014, total OECD heat production that was sold to third parties was 2 964 PJ. CHP plants provided 75.8% of this heat (2 245 PJ) and the rest (718 PJ) came from heat plants.

Increasing concern about environmental effects of energy use has led to policies encouraging the development and use of new technologies that increase the efficiency of electricity and heat production. Reflecting

such policies and other economic and social factors, large scale main activity producer CHP systems have been built in some member countries. In many cases the heat produced in these CHP plants is sold for district heating. Previously, CHP systems tended to be confined to small scale applications in industry.

OECD direct use of heat

Direct use refers to the use of an energy carrier in its primary form at the point of production. In terms of heat, this concept of consumption is separate and additional from heat sold to third parties, which is generally transported via a heating network. Heat that is used directly in final consumption sectors (residential, industry, commercial and public service, etc.) refers to solar thermal and geothermal energy. It should be noted that the data on direct use of heat are not included in total final consumption in heat production sold to third parties in part III.

2015p Direct use of solar/geothermal heat in the OECD in TJ

	Geothermal	Solar	Total
Australia	0	13843	13843
Austria	301	7655	7956
Belgium	9	857	866
Canada	0	1702e	1702e
Chile	0	780e	780e
Czech Republic	0	742	742
Denmark	0	604	604
Finland	0	62	62
France	1280	4252	5532
Germany	3800	28000	31800
Greece	480	8217	8697
Hungary	4332	445	4777
Iceland	5030	0	5030
Ireland	0	549	549
Israel	0	46070e	46070e
Italy	4640	8000	12640
Japan	7158	10793	17951
Korea	4899	1210	6109
Luxembourg	0	148	148
Mexico	0	11451	11451
Netherlands	2462	1137	3599
New Zealand	11779	364	12143
Poland	921	790	1711
Portugal	55	3360	3415
Slovak Republic	56	241	297
Slovenia	1275	455	1730
Spain	827	11612	12439
Sweden	0	472	472
Switzerland	14380	2433	16813
Turkey	77875	33955	111830
United Kingdom	33	2180	2213
United States	11280	95840e	107120e
Total	152872	298219e	451091e

At the present time, data on direct use of heat are reported by 32 countries. These data are summarised in the following table. Direct use of solar/geothermal heat was 451 PJ in 2015, an increase of 6.3% from 2014. Just over 33.9% of the directly used heat was produced by geothermal sources and 66.1% by solar sources in 2015.

Non-OECD heat production

In 2014, total non-OECD heat production was 10 852 PJ. The majority (96.3 %) of this heat was produced by burning combustible fuels. The remaining 3.7% was provided by nuclear, heat pumps, electric boilers, solar thermal, chemical heat and other sources. (Please note that Table 1.4 does not show a complete breakdown of the heat production by fuel due to a lack of information for several non-OECD countries, mainly in Europe.)

The largest component of heat was produced from natural gas. In 2014, 4 817 PJ, or 46.1% of total heat from combustible fuels sold in non-OECD countries came from natural gas.

The second largest component of heat sold to third parties was produced from coal. Heat produced from steam coal was 4 076 PJ, Lignite heat production was 368 PJ, production from coal gases was 465 PJ and

production from other coal products and peat was 17 PJ. Combined, these fossil fuels provided 47.1% of heat production from combustible fuels in 2014. Heat production from hard coal has increased since the late 1990s; however, heat production from brown coal and peat has declined sharply.

Heat production from oil was 486 PJ in 2014, contributing 4.6% of total heat production from combustible fuels.

The other significant source of combustible fuel-fired heat generation is non-fossil fuels like solid biofuels (e.g. wood and wood wastes), industrial and municipal wastes, other solid waste, biogases and liquid biofuels. Heat produced from these sources was 222 PJ in 2014. Biofuels and waste provided 2.1% of total heat production from combustible fuels in 2014.

OECD heat consumption

OECD heat consumption⁵ in 2014 was 2 378 PJ, a decrease of 3.9% from the 2013 level. Of total OECD reported heat consumption, 79.6% occurred in Europe. Korea and the United States account for large shares of the remainder (17.9%). In 2014, 40.7% of third party heat consumed in OECD countries was used in the industrial sector, 36.4% in the residential sector and 19.6% in the commercial/public services sector.

5. These data do not include the consumption of heat produced in industrial plants or service industries for their own use. In this section heat consumption refers to heat sold to third parties by both main activity producers and autoproducers.

PART I

EXPLANATORY NOTES

1. DEFINITIONS OF PRODUCTS AND FLOWS

The energy statistics tables provide a set of commodity balances for all sources of energy (“products”): primary coal and coal products, peat, natural gas primary oil and oil products, solid biofuels, liquid biofuels, biogases, waste, as well as electricity and heat, which are derived from various sources.

Each commodity balance is divided into three main blocks of “flows”: from top to bottom, the first showing *supply*, the second showing the *transformation processes* and *energy industries*, and the third showing *final consumption*, broken down into the various end-use sectors.

The definitions of products and flows presented in this chapter are based on those of the *Joint IEA/Eurostat/UNECE annual energy questionnaires*¹, and on the United Nations *International Recommendations on Energy Statistics*.²

Products

Coal

With the exception of the coal gases, the fuels in this section are expressed in thousand tonnes. The coal gases are expressed in terajoules on a **gross calorific value** basis.

In this publication, coal products are broken down as follows:

- Steam coal: includes anthracite, other bituminous coal and sub-bituminous coal.
- Lignite

1. <http://www.iea.org/statistics/resources/questionnaires/annual/>
 2. http://unstats.un.org/unsd/energy/ires/IRES_Whitecover.pdf

- Coal gases: includes gas works gas, coke oven gas and other recovered gases.
- Other coal products and peat: includes coke oven coke, gas coke, coal tar, patent fuel, brown coal briquettes (BKB) peat and peat products, and oil shale.

Coking coal

Coking coal refers to bituminous coal with a quality that allows the production of a coke suitable to support a blast furnace charge. Its gross calorific value is equal to or greater than 24 000 kJ/kg (5 732 kcal/kg) on an ash-free but moist basis.

Other bituminous coal and anthracite

Other bituminous coal is used mainly for steam raising and space heating purposes and includes all bituminous coal that is not included under coking coal nor anthracite. It is characterized by higher volatile matter than anthracite (more than 10%) and lower carbon content (less than 90% fixed carbon). Its gross calorific value is equal to or greater than 24 000 kJ/kg (5 732 kcal/kg) on an ash-free but moist basis.

Anthracite is a high rank coal used for industrial and residential applications. It has generally less than 10% volatile matter and a high carbon content (about 90% fixed carbon). Its gross calorific value is equal to or greater than 24 000 kJ/kg (5 732 kcal/kg) on an ash-free but moist basis.

Sub-bituminous coal

Non-agglomerating coals with a gross calorific value equal to or greater than 20 000 kJ/kg (4 777 kcal/kg) and less than 24 000 kJ/kg (5 732 kcal/kg) containing more than 31% volatile matter on a dry mineral matter free basis.

Lignite

Lignite is a non-agglomerating coal with a gross calorific value of less than 20 000 kJ/kg (4 777 kcal/kg), and greater than 31% volatile matter on a dry mineral matter free basis.

Note: oil shale is presented separately and not included with lignite.

Coke oven coke, gas coke and coal tar

Coke oven coke is the solid product obtained from the carbonisation of coal, principally coking coal, at high temperature. It is low in moisture content and volatile matter. Coke oven coke is used mainly in the iron and steel industry, acting as an energy source and a chemical agent. Also included are semi-coke (a solid product obtained from the carbonisation of coal at a low temperature), lignite coke (a semi-coke made from lignite), coke breeze and foundry coke. The heading *other energy industry own use* includes the consumption at the coking plants themselves. Consumption in the *iron and steel industry* does not include coke converted into blast furnace gas. To obtain the total consumption of coke oven coke in the iron and steel industry, the quantities converted into blast furnace gas have to be added (these are included in *blast furnaces*).

Gas coke is a by-product of hard coal used for the *production* of town gas in gas works. Gas coke is used for heating purposes. *Other energy industry own use* includes the consumption of gas coke at gas works.

Coal tar is a result of the destructive distillation of bituminous or of the low-temperature carbonisation of brown coal. Coal tar from bituminous coal is the liquid by-product of the distillation of coal to make coke in the coke oven process. Coal tar can be further distilled into different organic products (e.g. benzene, toluene, naphthalene), which normally would be reported as a feedstock to the petrochemical industry.

Patent fuel and brown coal briquettes (BKB)

Patent fuel is a composition fuel manufactured from hard coal fines with the addition of a binding agent. The amount of patent fuel produced may, therefore, be slightly higher than the actual amount of coal consumed in the transformation process. Consumption of patent fuels during the patent fuel manufacturing process is included under *other energy industry own use*.

BKB is a composition fuel manufactured from lignite or sub-bituminous coal, produced by briquetting under high pressure with or without the addition of a binding agent. These figures include peat briquettes, dried lignite fines and dust. The heading *other energy industry own use* includes consumption by briquetting plants.

Gas works gas

Gas works gas covers all types of gas produced in public utility or private plants, whose main purpose is the manufacture, transport and distribution of gas. It includes gas produced by carbonisation (including gas produced by coke ovens and transferred to gas works), by total gasification (with or without enrichment with oil products) and by reforming and simple mixing of gases and/or air.

Coke oven gas

Coke oven gas is obtained as a by-product of the manufacture of coke oven coke for the production of iron and steel.

Recovered gases

Blast furnace gas is produced during the combustion of coke in blast furnaces in the iron and steel industry. It is recovered and used as a fuel, partly within the plant and partly in other steel industry processes or in power stations equipped to burn it.

Other recovered gases is obtained as a by-product of the production of steel in an oxygen furnace and is recovered on leaving the furnace. The gases are also known as converter gas, LD gas or BOS gas.

Peat

Peat and peat products

Peat is a combustible soft, porous or compressed, fossil sedimentary deposit of plant origin with high water content (up to 90% in the raw state), easily cut, of light to dark brown colour. Peat used for non-energy purposes is not included here. Milled peat is included here.

Peat products are products such as peat briquettes derived directly or indirectly from sod peat and milled peat.

Note: for presentational purposes, in the statistics tables, the column of peat also includes data for oil shale, where applicable.

Oil shale

Oil shale and oil sands

Oil shale and oil sands produced and combusted directly are included in this category. Oil shale and oil sands used as inputs for other transformation processes are also included here (this includes the portion consumed in the transformation process). Shale oil and other products derived from liquefaction are included in *from other sources under crude oil (other hydrocarbons)*.

For presentational purposes, in the statistics tables, data for oil shale have been included within the column of peat, where applicable.

Natural gas

Natural gas is expressed in terajoules on a **gross calorific value** basis, measured at 15°C and 760 mm Hg.

Natural gas comprises gases, occurring in underground deposits, whether liquefied or gaseous, consisting mainly of methane. It includes both "non-associated" gas originating from fields producing only hydrocarbons in gaseous form, and "associated" gas produced in association with crude oil as well as methane recovered from coal mines (colliery gas) or from coal seams (coal seam gas).

Production represents dry marketable production within national boundaries, including offshore production and is measured after purification and extraction of NGL and sulphur. It includes gas consumed by gas processing plants and gas transported by pipeline. Quantities of gas that are re-injected, vented or flared are excluded.

Crude oil, NGL, refinery feedstocks

The fuels in this section are expressed in thousand tonnes.

Crude oil

Crude oil is a mineral oil of natural origin consisting of a mixture of hydrocarbons of natural origin and associated impurities, such as sulphur. It exists in the liquid phase under normal surface temperature and pressure and its physical characteristics (density, viscosity, etc.) are highly variable. It includes field or lease condensates (separator liquids) which are recovered from associated and non-associated gas where it is commingled with the commercial crude oil stream.

Other hydrocarbons, including synthetic crude oil from tar sands, shale oil, etc., liquids from coal liquefaction, output of liquids from natural gas conversion

into gasoline, hydrogen and emulsified oils (e.g. Orimulsion), are included here.

Natural gas liquids (NGLs)

NGLs are the liquid or liquefied hydrocarbons recovered from natural gas in separation facilities or gas processing plants. NGLs include ethane, propane, (normal and iso-) butane, (iso-) pentane and pentanes plus (sometimes referred to as natural gasoline or plant condensates).

Refinery feedstocks

A refinery feedstock is a processed oil destined for further processing (e.g. straight run fuel oil or vacuum gas oil) other than blending in the refining industry. With further processing, it will be transformed into one or more components and/or finished products. This definition also covers returns from the petrochemical industry to the refining industry (e.g. pyrolysis gasoline, C4 fractions, gasoil and fuel oil fractions).

Additives

Additives are non-hydrocarbon compounds added to or blended with a product to modify its properties, for example, to improve its combustion characteristics. Alcohols and ethers (MTBE, methyl tertiary-butyl ether) and chemical alloys such as tetraethyl lead are included here. The biofuel fractions of biogasoline, biodiesel and ethanol are not included here, but under liquid biofuels. This differs from the presentation of additives in the *Oil Information* publication.

Oil products

The fuels in this section are expressed in thousand tonnes.

Oil products are any oil-based products which can be obtained by distillation and are normally used outside the refining industry. The exceptions to this are those finished products which are classified as refinery feedstocks.

Production of oil products shows gross refinery output for each product.

Refinery fuel (*row oil refineries, under energy industry own use*) represents consumption of oil products, both intermediate and finished, within refineries, e.g. for heating, lighting, traction, etc.

Refinery gas (not liquefied)

Refinery gas includes a mixture of non-condensed gases mainly consisting of hydrogen, methane, ethane

and olefins obtained during distillation of crude oil or treatment of oil products (e.g. cracking) in refineries. It also includes gases which are returned from the petrochemical industry. Refinery gas production refers to gross production. Own consumption is shown separately under *oil refineries* in *energy industry own use*.

Liquefied petroleum gases (LPG) and ethane

LPG are light paraffinic hydrocarbons derived from refinery processes, crude oil stabilisation plants and natural gas processing plants. They consist mainly of propane (C_3H_8) and butane (C_4H_{10}) or a combination of the two. They could also include propylene, butylene, isobutene and isobutylene. LPG are normally liquefied under pressure for transportation and storage.

Ethane is a naturally gaseous straight-chain hydrocarbon (C_2H_6) which is extracted from natural gas and refinery gas streams.

Motor gasoline excluding biofuels

Motor gasoline is light hydrocarbon oil for use in internal combustion engines such as motor vehicles, excluding aircraft. Motor gasoline is distilled between 35°C and 215°C and is used as a fuel for land based spark ignition engines. Motor gasoline may include additives, oxygenates and octane enhancers, including lead compounds such as TEL (tetraethyl lead) and TML (tetramethyl lead). Motor gasoline excluding biofuels does not include the liquid biofuel or ethanol blended with gasoline - see liquid biofuels. This differs from the presentation of motor gasoline in the *Oil Information* publication.

Aviation fuels

Aviation fuels comprise gasoline and kerosene type jet fuels meeting specifications for use in aviation turbine power units as well as small amounts of aviation gasoline.

Gasoline type jet fuel includes all light hydrocarbon oils for use in aviation turbine power units, distilling between 100°C and 250°C. This fuel is obtained by blending kerosenes and gasoline or naphthas in such a way that the aromatic content does not exceed 25% in volume, and the vapour pressure is between 13.7 kPa and 20.6 kPa. Additives can be included to improve fuel stability and combustibility.

Kerosene type jet fuel is a medium distillate used for aviation turbine power units. It has the same distillation characteristics (between 150°C and 300°C but not generally above 250°C) and flash point as kerosene. In addition, it has particular specifications (such as

freezing point) which are established by the International Air Transport Association (IATA). It includes kerosene blending components.

Aviation gasoline is motor spirit prepared especially for aviation piston engines, with an octane number suited to the engine, a freezing point of -60°C, and a distillation range usually within the limits of 30°C and 180°C.

Other kerosene

Kerosene (other than kerosene used for aircraft transport which is included with aviation fuels) comprises refined petroleum distillate intermediate in volatility between gasoline and gas/diesel oil. It is a medium oil distilling between 150°C and 300°C.

Gas/diesel oil (distillate fuel oil) excluding biofuels

Gas/diesel oil includes heavy gas oils. Gas oils are obtained from the lowest fraction from atmospheric distillation of crude oil, while heavy gas oils are obtained by vacuum redistillation of the residual from atmospheric distillation. Gas/diesel oil distils between 180°C and 380°C. Several grades are available depending on uses: diesel oil for diesel compression ignition (cars, trucks, marine, etc.), light heating oil for industrial and commercial uses, and other gas oil including heavy gas oils which distil between 380°C and 540°C and which are used as petrochemical feedstocks. Gas/diesel oil excluding biofuels does not include the liquid biofuels blended with gas/diesel oil – see liquid biofuels. This differs from the presentation of gas/diesel oil in the *Oil Information* publication.

Fuel oil

Fuel oil defines oils that make up the distillation residue. It comprises all residual fuel oils, including those obtained by blending. Its kinematic viscosity is above 10 cSt at 80°C. The flash point is always above 50°C and the density is always higher than 0.90 kg/l.

Naphtha

Naphtha is a feedstock destined either for the petrochemical industry (e.g. ethylene manufacture or aromatics production) or for gasoline production by reforming or isomerisation within the refinery. Naphtha comprises material that distils between 30°C and 210°C. Naphtha imported for blending is shown as an import of naphtha, and then shown in the transfers row as a negative entry for naphtha and a positive entry for the corresponding finished product (e.g. gasoline).

Petroleum coke

Petroleum coke is a black solid by-product, obtained mainly by cracking and carbonising of petroleum derived feedstocks, vacuum bottoms, tar and pitches in processes such as delayed coking or fluid coking. It consists mainly of carbon (90 to 95%) and has a low ash content. It is used as a feedstock in coke ovens for the steel industry, for heating purposes, for electrode manufacture and for production of chemicals. The two most important qualities are "green coke" and "calcinated coke". This category also includes "catalyst coke" deposited on the catalyst during refining processes: this coke is not recoverable and is usually burned as refinery fuel.

Other oil products

In this publication, the category *other oil products* groups together white spirit and SBP, lubricants, bitumen, paraffin waxes and others.

White spirit and SBP are refined distillate intermediates with a distillation in the naphtha/kerosene range. White spirit has a flash point above 30°C and a distillation range of 135°C to 200°C. Industrial spirit (SBP) comprises light oils distilling between 30°C and 200°C. In other words, SBP is a light oil of narrower cut than motor spirit. There are seven or eight grades of industrial spirit, depending on the position of the cut in the distillation range. The grades are defined according to the temperature difference between the 5% volume and 90% volume distillation points (not more than 60°C).

Lubricants are hydrocarbons produced from distillate or residue; they are mainly used to reduce friction between bearing surfaces. This category includes all finished grades of lubricating oil, from spindle oil to cylinder oil, and those used in greases, including motor oils and all grades of lubricating oil base stocks.

Bitumen is a solid, semi-solid or viscous hydrocarbon with a colloidal structure that is brown to black in colour. It is obtained by vacuum distillation of oil residues from atmospheric distillation of crude oil. Bitumen is often referred to as asphalt and is primarily used for surfacing of roads and for roofing material. This category includes fluidised and cut-back bitumen.

Paraffin waxes are saturated aliphatic hydrocarbons. These waxes are residues extracted when dewaxing lubricant oils, and they have a crystalline structure which is more or less fine according to the grade. Their main characteristics are that they are colourless, odourless and translucent, with a melting point above 45°C.

Other oil products not classified above (e.g. tar, sulphur and grease) are included here. This category also

includes aromatics (e.g. BTX or benzene, toluene and xylene) and olefins (e.g. propylene) produced within refineries.

Biofuels and Waste

The fuels in this section are expressed in terajoules on a **net calorific value** basis, with the exception of liquid biofuels and charcoal, which are in thousand tonnes.

Note that for biomass commodities, only the amounts 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.

Solid biofuels

Solid biofuels are defined as any plant matter used directly as fuel or converted into other forms before combustion. This covers a multitude of woody materials generated by industrial process or provided directly by forestry and agriculture (firewood, wood chips, bark, sawdust, shavings, chips, sulphite lyes also known as black liquor, animal materials/wastes and other solid biofuels).

Charcoal produced from solid biofuels is also included here. Since charcoal is a secondary product, its treatment is slightly different than that of the other primary biofuels. Production of charcoal (an output in the transformation process) is offset by the inputs of primary biofuels into the charcoal production process. The losses from this process are included in the row *other transformation*. Other supply (e.g. trade and stock changes) as well as consumption are aggregated directly with the primary biofuels. In most countries, only the primary biofuels are reported.

Biogases

Biogases are gases arising from the anaerobic fermentation of biomass and the gasification of solid biomass (including biomass in wastes). The biogases from anaerobic fermentation are composed principally of methane and carbon dioxide and comprise landfill gas, sewage sludge gas and other biogases from anaerobic fermentation.

Biogases can also be produced from thermal processes (by gasification or pyrolysis) of biomass and are mixtures containing hydrogen and carbon monoxide (usually known as syngas) along with other components. These gases may be further processed to modify their composition and can be further processed to produce substitute natural gas.

Biogases are used mainly as a fuel but can be used as a chemical feedstock.

Liquid biofuels

Liquid biofuels include the liquid biofuels that are blended into gasoline and gas/diesel oil and other liquid biofuels. It does not include the total volume of gasoline or diesel into which the biofuels are blended.

Biogasoline includes bioethanol (ethanol produced from biomass and/or the biodegradable fraction of waste), biomethanol (methanol produced from biomass and/or the biodegradable fraction of waste), bioETBE (ethyl-tertio-butyl-ether produced on the basis of bioethanol; the percentage by volume of bio-ETBE that is calculated as biofuel is 47%) and bioMTBE (methyl-tertio-butyl-ether produced on the basis of biomethanol: the percentage by volume of bioMTBE that is calculated as biofuel is 36%).

Biodiesels includes biodiesel (a methyl-ester produced from vegetable or animal oil, of diesel quality), bio-dimethylether (dimethylether produced from biomass), Fischer Tropsh (Fischer Tropsh produced from biomass), cold pressed bio-oil (oil produced from oil seed through mechanical processing only) and all other liquid biofuels which are added to, blended with or used straight as transport diesel or for electricity and heat generation.

Other liquid biofuels include liquid biofuels used directly as fuel, not reported in either biogasoline or biodiesels.

Waste and other non-specified

Municipal waste consists of products that are combusted directly to produce heat and/or power and comprises wastes produced by households, industry, hospitals and the tertiary sector that are collected by local authorities for incineration at specific installations.

Industrial waste of non-renewable origin consists of solid and liquid products (e.g. tyres) combusted directly, usually in specialised plants, to produce heat and/or power. Renewable industrial waste is not included here, but with solid biofuels, biogases or liquid biofuels.

Electricity and heat

Electricity is expressed in gigawatt hours and heat is expressed in terajoules.

Electricity

Gross electricity production is measured at the terminals of all alternator sets in a plant; it therefore includes the energy taken by plant auxiliaries and

losses in transformers that are considered integral parts of the plant. Net electricity production is defined as gross production less own use of power plants. Net electricity production is measured at the plant busbars, after deduction of electricity consumed within the plant.

Hydroelectric plants production (gross and net) includes production from pumped storage plants.

Heat

Gross heat production is the total heat produced by the installation and includes the heat used by the installation's auxiliaries which use a hot fluid (space heating, liquid fuel heating etc.) and losses in the installation/network heat exchanges, as well as heat from chemical processes used as a primary energy form. Net heat production is the heat supplied to the distribution system as determined from measurements of the outgoing and return flows.

Data collected on heat include more disaggregated data on inputs and outputs of combined heat and power plants and on heat only plants. Data on heat became available in different years for different countries and thus aggregated country data should be used with caution.

Hydro energy

Hydro energy represents the potential and kinetic energy of water converted into electricity in hydroelectric plants.

Geothermal energy

Geothermal energy is the energy available as heat emitted from within the earth's crust, usually in the form of hot water or steam. It is exploited at suitable sites:

- for electricity generation using dry stream or high enthalpy brine after flashing
- directly as heat for district heating, agriculture, etc.

Solar energy

Solar radiation exploited for electricity generation and hot water production. Passive solar energy for direct heating, cooling or lighting of dwellings or other buildings is not included.

- **Solar photovoltaic:** This is solar radiation exploited for electricity generation by photovoltaic cells.
- **Solar thermal:** This is solar radiation exploited for:

- hot water production by flat plate collectors (mainly of the thermosyphon type) for domestic hot water or seasonal heating of swimming pools
- electricity generation by solar thermal-electric plants.

Tide/wave/ocean energy

Tide, wave and ocean represents the mechanical energy derived from tidal movement, wave motion or ocean current and exploited for electricity generation.

Wind energy

Wind energy represents the kinetic energy of wind exploited for electricity generation in wind turbines.

Net maximum capacity

Net maximum capacity is the maximum active power that can be supplied, continuously, with all plants running, at the point of outlet to the network. It is assumed that all equipment is in full working order, that the power produced can be disposed of without any restrictions and that optimum conditions prevail as regards primary sources (i.e. flow and head in the case of hydroelectric plants; grades and quantity of fuel in hand and water supply, temperature and purity, in the case of combustible fuel-fired plants and assuming that the output and method of production in CHP plants are those which contribute to maximum electricity production). It represents the sum of all individual plants' maximum capacities available to run continuously throughout a prolonged period of operation in a day.

The capacity is net in the sense that it is the output capacity measured at the plant busbars, i.e. after deducting the power needed by plant auxiliaries and losses in plant transformers.

Single-fired capacity

Units equipped to burn only one fuel type on a continuous basis. The conventional thermal fuel types are the following:

- Coal and coal products: including all types of coal, blast furnace gas and coke oven gas.
- Liquids: including crude oil and oil products, refinery gas, and other fossil liquid fuels.
- Natural gas: natural gas and gas works gas.
- Biofuels and waste: covers biomass and waste.

Multi-fired capacity

Units that can burn more than one fuel individually and/or a combination of fuels on a continuous basis. A multi-fired unit can have either one boiler which can use more than one fuel, or two boilers each utilising a single fuel but which feed the same generator either singly or together. The unit is capable of generating its net maximum capacity or a large proportion of its maximum capacity using any one of the fuels.

Capacity factor:

The capacity factor is defined as: the annual gross electricity generation (in GWh) divided by the net capacity (in GW) times 365 (days/year) times 24 (hours/day).

Care should be taken when using this figure for several reasons:

- The ratio is done between the gross generation and the net capacity, hence not taking into account the own use of the plant.
- A large adding of capacity in the year (especially toward the end of the year) will impact negatively the capacity factor, as the capacity would only have been producing for a part of the year.
- Reciprocally, a decommissioning of some of the capacity (especially toward the end of the year) can cause the capacity factor to increase.
- In the case of co-firing, some issues can arise since the capacity is sometimes only reported under the main fuel, and sometimes double reporting of the capacity can occur.

Flows definitions

Electricity and heat balance

The electricity and heat balance flows have the following definitions:

Gross production and net production

Described above in this chapter.

Used for heat pumps

Electricity used in heat pumps.

Used for electric boilers

Electricity used in electric boilers.

Used for pumped storage

Electricity consumed by pumping in hydro-electric power plants.

Imports and exports

described above in this chapter.

Electrical energy supplied

electrical energy supplied from the plant. In the case of a national network this is equal to the sum of the net electrical energy production supplied by all power plants within the country, reduced by the amount used simultaneously for pumping as well as the amount used for heat sold using heat pumps and electric boilers. It is then reduced or increased by exports to or imports from abroad.

Transmission and distribution losses

It comprises all losses due to transport and distribution of electrical energy and heat. For electricity, losses in transformers which are not considered as integral parts of the power plants are also included.

Total energy industry consumption

It represents all electricity and purchased heat consumed by the energy sector to support the extraction (mining, oil and gas production) and plant operation of transformation activities. It exclude Own use by plant, Used for pumped storage, Used by heat pumps and Used for electric boilers, which are reported elsewhere as explained above. Heat consumed by **autoproducers** for their own use is not included. Consumption in support of the operation of pipelines (e.g. oil, gas, and coal slurry) is reported in the Transport sector. The Energy Sector covers ISIC1 Divisions 05, 06, 19 and 35, Group 091, Classes 0892 and 0721 (NACE2 Divisions 05, 06 19, and 35, Group 09.1, Classes 08.92 and 07.21). The Energy sector includes the manufacture of chemical materials for atomic fission and fusion and the products of these processes. Electricity and heat used in the manufacture of fuel briquettes and packaged fuel from coal, lignite or peat and consumption in coke ovens, gas works, blast furnaces, liquefaction plants, gasification plants, charcoal production plants and other transformation industries is also reported here.

Final consumption

It is equal to the sum of *Industry + Transport + Commercial and public services + Residential + Agriculture and fishing + Not elsewhere specified other sectors* consumptions.

Energy balances

The first block of the energy commodity balances shows the following elements of supply:

Production

- + *From other sources*
- + *Imports*
- *Exports*
- *International marine bunkers*
- *International aviation bunkers*
- ± *Stock changes*
- = *Domestic supply*

Note, exports, bunkers and stock changes incorporate the algebraic sign directly in the number.

Production

Production refers to the quantities of fuels extracted or produced, calculated after any operation for removal of inert matter or impurities (e.g. sulphur from natural gas). For “other hydrocarbons” (shown with crude oil), production should include synthetic crude oil (including mineral oil extracted from bituminous minerals such as oil shale and tar sands, etc.). Production of secondary oil products represents the gross refinery output. Secondary coal products (including coal gases) represent the output from coke ovens, gas works, blast furnaces and other transformation processes.

From other sources

From other sources refers to both primary energy that has not been accounted for under production and secondary energy that has been accounted for in the production of another fuel. For example, under additives: benzol, alcohol and methanol produced from natural gas; under refinery feedstocks: backflows from the petrochemical industry used as refinery feedstocks; under “other hydrocarbons” (included with crude oil): liquids obtained from coal liquefaction and GTL plants; under primary coal: recovered slurries, middlings, recuperated coal dust and other low-grade coal products that cannot be classified according to type of coal from which they are obtained; under gas works gas: natural gas, refinery gas, and LPG, that are treated or mixed in gas works (i.e. gas works gas produced from sources other than coal).

Imports and exports

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 an export 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.

International marine bunkers

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 definitions of *transport, fishing, and other non-specified*.

International aviation bunkers

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

Note that international marine bunkers and international aviation bunkers are subtracted out of supply in agreement with the definitions of the United Nations International Recommendations on Energy Statistics (IRES). This differs from the treatment of international aviation bunkers in the annual oil statistics published in the Oil Information publication.

Stock changes

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. Oil and gas stock changes in pipelines are not taken into account. With the exception of large users mentioned above, changes in final users' stocks are not taken into account. A stock build is shown as a negative number, and a stock draw as a positive number.

Domestic supply

Domestic supply is defined as *production + from other sources + imports - exports - international marine bunkers - international aviation bunkers ± stock changes*. Note, exports, bunkers and stock changes incorporate the algebraic sign directly in the number.

Transfers

Transfers comprises *interproduct transfers, products transferred and recycled products*.

Interproduct transfers results from reclassification of products either because their specification has changed or because they are blended into another product, e.g. kerosene may be reclassified as gasoil after blending with the latter in order to meet its winter diesel specification. The net balance of *interproduct transfers* is zero.

Products transferred is intended for oil products imported for further processing in refineries. For example, fuel oil imported for upgrading in a refinery is transferred to the feedstocks category.

Recycled products are finished products which pass a second time through the marketing network, *after* having been once delivered to final consumers (e.g. used lubricants which are reprocessed).

Statistical difference

Statistical difference is defined as *deliveries to final consumption + use for transformation processes + consumption by energy industry own use + losses - domestic supply - transfers*. Statistical differences arise because the data for the individual components of supply and demand are often derived from different data sources by the national administration. Furthermore, the inclusion of changes in some large consumers' stocks in the supply part of the balance introduces distortions which also contribute to the statistical differences.

Transformation processes

Transformation processes comprise the conversion of primary forms of energy to secondary and further transformation (e.g. coking coal to coke, crude oil to oil products, and fuel oil to electricity).

Electricity plants

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 cannot be distinguished on a unit basis) then the whole plant is designated as a CHP plant. Both main activity producer³ and autoproducer⁴ plants are included here. Heat from chemical processes for electricity generation is also included here.

Combined heat and power plants

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

Heat plants

Heat plants refers to plants (including heat pumps and electric boilers) designed to produce heat only and who sell heat to a third party (e.g. residential, commercial or industrial consumers) under the provisions of a contract. Both main activity producer and autoproducer plants are included here. Heat pumps that are operated within the residential sector where the heat is not sold are not considered a transformation process and are not included here – the electricity consumption would appear as residential use.

3. 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.

4. 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.

Blast furnaces

Blast furnaces covers the quantities of fuels used for the production of recovered gases (e.g. blast furnace gas and oxygen steel furnace gas). The production of pig-iron from iron ore in blast furnaces uses fuels for supporting the blast furnace charge and providing heat and carbon for the reduction of the iron ore. Accounting for the calorific content of the fuels entering the process is a complex matter as transformation (into blast furnace gas) and consumption (heat of combustion) occur simultaneously. Some carbon is also retained in the pig-iron; almost all of this reappears later in the oxygen steel furnace gas (or converter gas) when the pig-iron is converted to steel. In the 1992/1993 annual questionnaires, Member Countries were asked for the first time to report in *transformation processes* the quantities of all fuels (e.g. pulverised coal injection [PCI] coal, coke oven coke, natural gas and oil) entering blast furnaces and the quantity of blast furnace gas and oxygen steel furnace gas produced. The IEA Secretariat then needed to split these inputs into the transformation and consumption components. The transformation component is shown in the row *blast furnaces* in the column appropriate for the fuel, and the consumption component is shown in the row *iron and steel*, in the column appropriate for the fuel. Originally, the IEA Secretariat assumed that there was a transformation efficiency of 100%, which meant that the energy going into the transformation process was equal to the energy coming out i.e. equivalent to the energy content of the gases produced). However, when the IEA data were used to calculate CO₂ emissions from fuel combustion using the Intergovernmental Panel on Climate Change (IPCC) methodology, as published in the *Revised 1996 IPCC Guidelines for National Greenhouse Gas Inventories*,⁵ the blast furnaces were showing a carbon gain. Starting with the 1998 edition, the IEA Secretariat decided to assume a transformation efficiency such that the carbon input into the blast furnaces should equal the carbon output. This is roughly equivalent to assuming an energy transformation efficiency of 40%.

Gas works

Gas works covers the quantities of fuels used for the production of town gas. Note, this item also includes other gases blended with natural gas.

5. The *Revised 1996 IPCC Guidelines for National Greenhouse Gas Inventories* are available from the IPCC National Greenhouse Gas Inventories Programme at <http://www.ipcc-nrgip.iges.or.jp>.

Coke/patent fuel/BKB/PB plants

Coke/patent fuel/BKB/PB plants covers the use of fuels for the manufacture of coke, coke oven gas, patent fuels, BKB and peat briquettes (PB).

Oil refineries

Oil refineries covers the use of hydrocarbons for the manufacture of finished oil products.

Petrochemical plants

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.

Liquefaction plants

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

Other transformation

Other transformation includes the transformation of primary solid biofuels into charcoal and other non-specified transformation.

Energy industry own use

Energy industry own use covers the amount of fuels used by the energy producing industries (e.g. for heating, lighting and operation of all equipment used in the extraction process, for traction and for distribution). It includes energy consumed by energy industries for heating, pumping, traction and lighting purposes [ISIC⁶ Divisions 05, 06, 19 and 35, Group 091 and Classes 0892 and 0721].

Fuel mining and extraction

Fuel mining and extraction includes both coal mining and oil and gas extraction. For hard coal and lignite mining, this represents the energy which is used directly within the coal industry. It excludes coal burned in pithead power stations (included under electricity plants in transformation processes) and free allocations to miners and their families (considered as part of household consumption and therefore included under residential). For oil and gas extraction, flared gas is not included.

Oil refineries.

Energy use on oil refineries.

Electricity, CHP and heat plants.

Energy use in electricity, CHP and heat plants.

Pumped storage plants

Pumped storage plants (electricity consumed in hydro-electric plants).

Other energy industry own use

Other energy industry own use (including own consumption in patent fuel plants, coke ovens, gas works, blast furnaces, BKB, peat briquette and lignite coke plants, coal liquefaction plants, gas-to-liquids plants, charcoal production plants, nuclear plants as well as use in non-specified energy industries).

Losses

Losses includes losses in energy distribution, transmission and transport.

Final consumption

The term **final consumption** (equal to the sum of the consumption in the end-use sectors) implies that energy used for transformation processes and for own use of the energy producing industries is excluded. Final consumption reflects for the most part deliveries to consumers (see note on *stock changes*).

Backflows from the petrochemical industry are not included in final consumption (see *from other sources* under supply and *petrochemical plants* in transformation).

Industry

Industry consumption is specified by sub-sector as listed below: (Note - energy used for transport by industry is not included here but is reported under transport.)

Iron and steel industry

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

Chemical and petrochemical industry

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

Non-ferrous metals

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

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

Non-metallic minerals

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

Transport equipment

Transport equipment [ISIC Divisions 29 and 30];

Machinery

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

Mining and quarrying

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

Food and tobacco

Food and tobacco [ISIC Divisions 10 to 12];

Paper, pulp and printing

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

Wood and wood products

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

Construction

Construction [ISIC Divisions 41 to 43];

Textile and leather

Textile and leather [ISIC Divisions 13 to 15];

Non-specified

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.

Transport

Consumption in transport covers all transport activity (in mobile engines) regardless of the economic sector to which it is contributing [ISIC Divisions 49 to 51], and is specified as follows:

Domestic aviation

Domestic aviation includes deliveries of aviation fuels to aircraft for domestic aviation - commercial, private, agricultural, 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 this incorrectly includes fuel used by domestically owned carriers for outbound international traffic (see *international aviation bunkers*).

Road

Road includes fuels used in road vehicles as well as agricultural and industrial highway use. It excludes military consumption as well as motor gasoline used in stationary engines and diesel oil for use in tractors that are not for highway use.

Rail

Rail includes quantities used in rail traffic, including industrial railways.

Pipeline transport

Pipeline transport includes energy used in the support and operation of pipelines transporting gases, liquids, slurries and other commodities, including the energy used for pump stations and maintenance of the pipeline. Energy for the pipeline distribution of natural gas or coal gases, hot water or steam (ISIC Division 35) from the distributor to final users is excluded and should be reported in *energy industry own use*, while the energy used for the final distribution of water (ISIC Division 36) to household, industrial, commercial and other users should be included in *commercial/public services*. Losses occurring during the transport between distributor and final users should be reported as *losses*.

Domestic navigation

Domestic navigation includes fuels delivered to vessels of all flags not engaged in international navigation (see *international marine bunkers*). The domestic/international split should be determined on the basis of port of departure and port of arrival and not by the flag or nationality of the ship. Note that this may include journeys of considerable length between two ports in a country (e.g. San Francisco to Honolulu). Fuel used for ocean, coastal and inland fishing and military consumption are excluded.

Non-specified

Non-specified includes all transport not elsewhere specified.

Note: *International marine bunkers and international aviation bunkers* are shown in *Supply* and are not included in transport as part of final consumption.

Other

Residential

Residential includes consumption by households, excluding fuels used for transport. It includes households with employed persons [ISIC Divisions 97 and 98] which is a small part of total residential consumption.

Commercial and public services

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

Agriculture/forestry includes deliveries to users classified as agriculture, hunting and forestry by the ISIC, and therefore includes energy consumed by such users whether for traction (excluding agricultural highway use), power or heating (agricultural and domestic) [ISIC Divisions 01 and 02].

Fishing

Fishing includes fuels used for inland, coastal and deep-sea fishing. Fishing covers fuels delivered to ships of all flags that have refuelled in the country (including international fishing) as well as energy

used in the fishing industry [ISIC Division 03]. *Prior to the 2007 edition, fishing was included with agriculture/forestry and this may continue to be the case for some countries.*

Non-specified

Non-specified includes all fuel use not elsewhere specified as well as consumption in the above-designated categories for which separate figures have not been provided. Military fuel use for all mobile and stationary consumption is included here (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.

Non-energy use

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 within final consumption.

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: chemical/petrochemical. 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].

2. SOURCES AND NOTES

General notes

Energy data for OECD countries are submitted to the IEA Secretariat in a common reporting format and methodology to allow for international comparisons to be made.

Energy data reported for 2015 (shown as 2015p) are provisional based on submissions received in early 2016 and on monthly submissions to the IEA from member countries. In some instances it has been necessary for the IEA to estimate some data, explanations of the estimates are provided in the country notes. Final 2015 data on electricity and heat will be submitted by OECD member countries to the secretariat in Annual Questionnaires in late 2016. As a result, final data for 2015 and preliminary 2016 data will be published in the Electricity Information 2017 Edition.

Qualifiers

Data marked as 'e' are the estimates of the secretariat. Data marked as 'c' means that data are confidential due to country specific regulations. Data marked as '..' means that data are not available (either not collected or not submitted by national government). Data marked as 'x' means that the data point is not applicable, there is no meaningful explanation of a value there (for example, unit price is not shown if there was no trade). Year marked as p (e.g. 2015p) refers to provision data.

Average annual growth rate

The annual average growth rate are presented in this publication as percentage and named as follows:

74-00: from 1974 to 2000

90-00: from 1990 to 2000

00-14: from 2000 to 2014

00-15: from 2000 to 2015

Other sources

OECD Main Economic Indicators

OECD Main Economic Indicators is a monthly compilation of a range of indicators on recent economic developments for the 34 OECD member countries. Please refer to this publication for detailed notes regarding the selected indicators.

Price data

Prices are published quarterly in *IEA/OECD Energy Prices and Taxes*, where complete notes on prices may be obtained.

Indices of real energy end-use prices

The methodology for calculating the real and nominal indices of real energy end-use prices is as follows:

For products where more than one price is available, a representative series is created for each country. The representative heavy fuel oil price is a combination of high sulphur fuel oil and low sulphur fuel oil. The representative motor gasoline price is a combination of the most consumed unleaded gasoline for recent time periods and leaded gasoline for earlier time periods.

For oil, the industry index includes representative heavy fuel oil, light fuel oil and automotive diesel, but not fuels used for electricity generation. The household index includes representative gasoline and light fuel oil.

Indices with the base year 2010=100 were computed for each price series from prices in national currencies and then aggregated over product groups, sectors and countries. The Paasche formula was used for index computation. The weights used were the physical quantities consumed, as published in the OECD/IEA

World Energy Statistics. To calculate the real price index, the nominal prices were deflated with country-specific producer price indices (2010=100) for the industry sector and with country-specific consumer price indices (2010=100) for the household sector. The regional aggregates were calculated as the weighted averages of country specific indices, using consumption quantities as the weights.

Energy end-user prices, taxes and price in national currencies

In general, end-use prices:

- Include transport costs to the consumer;
- Are prices actually paid (i.e. net of rebates); and
- Include taxes which have to be paid by the consumer as part of the transaction and which are not refundable. This excludes value added tax (VAT) paid in many European countries by industry (including electric power plants) and commercial end-users for all goods and services (including energy). In these cases VAT is refunded to the customer, usually in the form of a tax credit. Therefore, it is not included in the prices and taxes columns in the tables. This also applies to automotive diesel for the EU countries commercial use. The VAT percentages shown in the country notes refer to a pre-VAT price that includes all other taxes.

The major exception to the above rules is the United States due to a lack of information. Although all energy products are subject to non-refundable taxes at least at the state and local level, only gasoline and automotive diesel include total average taxes. All other energy product prices shown exclude taxes since the national average of local taxes remains unknown and price data are collected on an ex-tax basis.

Conversion to euro

Prices and taxes prior to the date of entry into the Economic and Monetary Union (EMU) have been converted from the former national currency using the appropriate irrevocable conversion rate. The irrevocable conversion rate on 1 January 1999 was used for all countries, except Greece (fixed rate as of 1 January 2001), Slovenia (fixed rate as of 1 January 2007), Malta and Cyprus¹ (both fixed rate as of 1 January

2008), the Slovak Republic (fixed rate as of 1 January 2009), and Estonia (fixed rate as of 1 January 2012).

Country	Rate	Country	Rate
Austria	13.7603	Italy	1936.27
Belgium	40.3399	Luxembourg	40.3399
Cyprus ¹	0.585274	Malta	0.4293
Estonia	15.6466	Netherlands	2.20371
Finland	5.94573	Portugal	200.482
France	6.55957	Slovak Republic	30.126
Germany	1.95583	Slovenia	239.64
Greece	340.75	Spain	166.386
Ireland	0.787564		

This methodology facilitates comparisons within a country over time and ensures that the historical evolution (i.e. growth rate) is preserved. However, pre-EMU Euro are notional units and are not normally suitable to form area aggregates or to carry out cross-country comparisons.

Sources

Most of the prices are submitted on a quarterly basis to the IEA secretariat by administrations; others are taken from national publications or web sites.

Oil products

By decision dated 26 January 1977, the European Commission initiated a weekly reporting system of end-use prices and taxes for the following products: Residual (Heavy) fuel oil RFO 1 (sulphur content $\leq 1\%$); RFO 2 (sulphur content $<2\%$); heating gas oil (delivery size of 2-5 kl per transaction); automotive diesel oil, and Euro super 95 and leaded premium gasoline (pump prices). Prices are reported to the Commission as delivered prices and exclude rebates.

For some EU countries, no special series are available on heavy fuel oil prices for electricity generation and on light fuel oil for industry. They have been approximated as the ex-VAT prices for heavy fuel oil for industry and light fuel oil for households, respectively.

Coal

Given the great variety of coal qualities in domestic and international coal trade, a selection of a standard coal quality for international comparisons of end-use prices is not possible. Therefore, prices refer to the most common qualities for each country and are not necessarily comparable between countries. This is especially true for prices of coal used by households, where prices shown may refer to bituminous steam coal, anthracite, lignite or even coke.

In Austria, the United Kingdom and the United States, coal prices are available as average unit values (as

1. Please refer to Part I Section 5, Geographical Coverage.

average expenditure per metric ton of coal by industry, power plants, and households). These average unit values are the weighted average of all qualities and delivery sizes for which transactions have taken place. They are particularly useful for price comparisons between the four major energy sources when converted to a common heat unit and for price comparisons between countries on the basis of a single monetary unit.

Natural gas and electricity

For studies on price behaviour and policies in the field of natural gas and electricity, the concept of average unit value is also of particular importance. These two forms of energy are supplied under a multitude of contract or tariff conditions which link the prices to the quantity delivered, the continuity of the supply, load factors and the diurnal pattern of use. The contracts or tariffs may also include a fixed charge component.

However, when seeking a representative overall price of electricity and natural gas for broad sectors such as industry and households, the average unit value is the most appropriate. It is obtained either from utilities as average revenue per unit delivered or from industry or households as average expenditure per unit purchased. Most of the average unit values are only available on an annual basis.

The prices for natural gas refer to MWh using the gross calorific value of the gas. Prices for the net calorific value would be approximately 11% higher.

Prices per heat equivalent of 1 metric ton of oil

The prices expressed in these tables are in terms of the heat content of the fuel rather than price per physical unit (e.g. *tonne, litre*). They have been calculated using the country specific calorific value (heat content). These factors reflect the average net heat content of a given fuel in a given country. The tables at the end of this section show the net calorific values for each country that are used to convert from physical to energy units. Please see section 6 Conversion Factors and Calorific Values for more explanation.

Energy end-use prices in US dollars

In general, country differentials between national end-use prices expressed in U.S. dollars are heavily influenced by exchange rate differentials. However, world market prices of primary fuels in U.S. dollars are an important parameter for the pricing of final energy consumption, particularly for countries which rely heavily on energy imports.

The difference between world market prices and national end-use prices in U.S. dollars correspond to the remaining pricing parameters, i.e. transformation and distribution costs, non-internationally tradable energy sources (mainly hydro-power, but also natural gas), market structures (e.g. mix of large- and small-purchase lots), and the pricing policies of central or local authorities, which naturally include the national tax policies.

Household energy prices in US dollars: purchasing power parities versus exchange rates

Over time, there have been wide fluctuations in exchange rates and there has been some concern regarding international price comparisons based on exchange rates which may not reflect the *relative purchasing power* in each currency.

An alternative method of comparison is provided by Purchasing Power Parities (PPPs) which 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, PPP's are the rates of currency conversion which eliminate the differences in price levels between different countries.

The Purchasing Power Parities used here were developed jointly by the OECD statistics directorate and Eurostat (the Statistical Office of the European Communities) to enable international price comparisons to be made for GDP and its components. (For more information on the methodology, see www.oecd.org/std/prices-ppp.

3. GEOGRAPHICAL COVERAGE

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

Latvia was not an OECD Member at the time of the preparation of this publication. Accordingly, Latvia does not appear in the list of OECD Members and is not included in the zone aggregates.

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; Finland; France; Germany; Greece; Hungary; Iceland; Ireland; Italy; Luxembourg; the Netherlands; Norway; Poland; Portugal; the Slovak Republic; Slovenia; Spain; Sweden; Switzerland; Turkey and the United Kingdom.¹

Estonia and Slovenia are included starting in 1990. Prior to 1990, Estonia is included in Former Soviet Union and Slovenia is included in Former Yugoslavia.

Within the **OECD**:

- **Australia** excludes the overseas territories;
- **Denmark** excludes Greenland and the Faroe Islands, 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;

1. Latvia was not an OECD Member at the time of the preparation of this publication. Accordingly, Latvia does not appear in the list of OECD Members and is not included in the zone aggregates.

- **France** includes Monaco and excludes the following overseas departments: Guadeloupe; French Guiana; Martinique; Mayotte; and Réunion; and collectivities: New Caledonia; French Polynesia; Saint Barthélemy; Saint Martin; Saint Pierre and Miquelon; and Wallis and Futuna;
- **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 Holy See;
- **Japan** includes Okinawa;
- **Netherlands** excludes Suriname, Aruba and the other former Netherlands Antilles (Bonaire, Curaçao, Saba, Saint Eustatius and Sint Maarten);
- **Portugal** includes the Azores and Madeira;
- **Spain** includes the Canary Islands;
- **Switzerland** includes Liechtenstein for 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 but generally excludes all territories, and all trade between the U.S. and its territories. Oil statistics include Guam, Puerto Rico² and the

2. Natural gas and electricity data for Puerto Rico are included under Other Non-OECD Americas.

United States Virgin Islands; trade statistics for coal include international trade to and from Puerto Rico and the United States Virgin Islands.

The **International Energy Agency (IEA)** includes Australia, Austria, Belgium, Canada, the Czech Republic, Denmark, Estonia³, 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.

Africa includes Algeria; Angola; Benin; Botswana (from 1981); Cameroon; the Republic of the Congo (Congo)⁴; Côte d'Ivoire; the Democratic Republic of the Congo; Egypt; Eritrea; Ethiopia; Gabon; Ghana; Kenya; Libya; Mauritius; Morocco; Mozambique; Namibia (from 1991); Niger (from 2000); Nigeria; Senegal; South Africa; South Sudan (from 2012), Sudan; the United Republic of Tanzania (Tanzania); Togo; Tunisia; Zambia; Zimbabwe and **Other Africa**.

Other Africa includes Botswana (until 1980); Burkina Faso; Burundi; Cabo Verde; Central African Republic; Chad; Comoros; Djibouti; Equatorial Guinea; Gambia; Guinea; Guinea-Bissau; Lesotho; Liberia; Madagascar; Malawi; Mali; Mauritania; Namibia (until 1990); Niger (until 1999); Réunion; Rwanda; Sao Tome and Principe; the Seychelles; Sierra Leone; Somalia; Swaziland; Uganda.

Middle East includes Bahrain; the Islamic Republic of Iran; Iraq; Jordan; Kuwait; Lebanon; Oman; Qatar; Saudi Arabia; the Syrian Arab Republic; the United Arab Emirates and Yemen.

Non-OECD Europe and Eurasia includes Albania; Armenia; Azerbaijan; Belarus; Bosnia and Herzegovina; Bulgaria; Croatia; Cyprus⁵; the Former Yugoslav Republic of Macedonia; Georgia; Gibraltar;

Kazakhstan; Kosovo; Kyrgyzstan; Latvia⁶; Lithuania; Malta; the Republic of Moldova (Moldova); Montenegro; Romania; the Russian Federation; Serbia⁷; Tajikistan; Turkmenistan; Ukraine; Uzbekistan; the Former Soviet Union and Former Yugoslavia.

Non-OECD Americas includes Argentina; the Plurinational State of Bolivia (Bolivia); Brazil; Colombia; Costa Rica; Cuba; Curaçao⁸; the Dominican Republic; Ecuador; El Salvador; Guatemala; Haiti; Honduras; Jamaica; Nicaragua; Panama; Paraguay; Peru; Suriname (from 2000), Trinidad and Tobago; Uruguay; the Bolivarian Republic of Venezuela (Venezuela) and **Other Non-OECD Americas**.

Other Non-OECD Americas includes Antigua and Barbuda; Aruba; the Bahamas; Barbados; Belize; Bermuda; Bonaire (from 2012); the British Virgin Islands; the Cayman Islands; Dominica; the Falkland Islands (Malvinas); French Guiana; Grenada; Guadeloupe; Guyana; Martinique;Montserrat; Puerto Rico⁹ (for natural gas and electricity); Saba (from 2012); Saint Eustatius (from 2012); Saint Kitts and Nevis; Saint Lucia; Saint Pierre and Miquelon; Saint Vincent and the Grenadines; Sint Maarten (from 2012); Suriname (until 1999); and the Turks and Caicos Islands.

China includes the (People's Republic of) China and Hong Kong, China.

Asia includes Bangladesh; Brunei Darussalam; Cambodia (from 1995); India; Indonesia; the Democratic People's Republic of Korea; Malaysia; Mongolia (from 1985); Myanmar; Nepal; Pakistan; the Philippines; Singapore; Sri Lanka; Chinese Taipei; Thailand; Viet Nam and **Other Asia**.

Other Asia includes Afghanistan; Bhutan; Cambodia (until 1994); Cook Islands; Fiji; French Polynesia; Kiribati; Lao People's Democratic Republic; Macau,

3. Estonia is included starting in 1990. Prior to 1990, data for Estonia are included in Former Soviet Union.

4. Short country names are included in parentheses.

5. Note by Turkey:

The information in this document with reference to "Cyprus" relates to the southern part of the Island. There is no single authority representing both Turkish and Greek Cypriot people on the Island. Turkey recognises the Turkish Republic of Northern Cyprus (TRNC). Until a lasting and equitable solution is found within the context of the United Nations, Turkey shall preserve its position concerning the "Cyprus issue".

Note by all the European Union Member States of the OECD and the European Union:

The Republic of Cyprus is recognised by all members of the United Nations with the exception of Turkey. The information in this document relates to the area under the effective control of the Government of the Republic of Cyprus.

6. Latvia was not an OECD Member at the time of the preparation of this publication. Accordingly, Latvia does not appear in the list of OECD Members and is still included in the non-OECD aggregate.

7. Serbia includes Montenegro until 2004 and Kosovo until 1999.

8. The Netherlands Antilles was dissolved on 10 October 2010 resulting in two new 'constituent countries' (Curaçao and Sint Maarten) with the other islands joining The Netherlands as 'special municipalities'. However, due to lack of detailed data the IEA secretariat's data and estimates under the 'Netherlands Antilles' still refer to the whole territory of the Netherlands Antilles as it was known prior to 10 October 2010 up to the end of 2011. Data refer only to the island of Curaçao from 2012. The other islands of the former Netherlands Antilles are added to Other Non-OECD Americas from 2012.

9. Oil statistics as well as coal trade statistics for Puerto Rico are included under the United States.

China; the Maldives; Mongolia (until 1984); New Caledonia; Palau (from 1994); Papua New Guinea; Samoa; the Solomon Islands; Timor-Leste; Tonga and Vanuatu.

The **European Union - 28 (EU-28)** includes Austria; Belgium; Bulgaria; Croatia; Cyprus²; the Czech Republic; Denmark; Estonia; Finland; France; Germany; Greece; Hungary; Ireland; Italy; Latvia; Lithuania; Luxembourg; Malta; the Netherlands; Poland; Portugal; Romania; the Slovak Republic; Slovenia; Spain; Sweden and the United Kingdom.

Please note that in the interest of having comparable data, all these countries are included since 1990 despite different entry dates into the European Union.

The **Organisation of the Petroleum Exporting Countries (OPEC)** includes Algeria; Angola; Ecuador; the Islamic Republic of Iran; Iraq; Kuwait; Libya; Nigeria; Qatar; Saudi Arabia; the United Arab Emirates and the Bolivarian Republic of Venezuela (Venezuela).¹⁰

G7 includes Canada, France, Germany, Italy, Japan, United Kingdom, and the United States.

G8 includes Canada, France, Germany, Italy, Japan, the Russian Federation, the United Kingdom, and the United States.

G20 includes Argentina, Australia, Brazil, Canada, China (including Hong Kong, China), India, Indonesia, Japan, Korea, Mexico, the Russian Federation, Saudi Arabia, South Africa, Turkey, the United States and the European Union – 28.

Please note that the following countries have not been considered due to lack of data:

- **Non-OECD Europe and Eurasia:** Andorra; Liechtenstein¹¹ (except for oil data);
- **Africa:** Mayotte; Saint Helena; Western Sahara;
- **Non-OECD Americas:** Anguilla;
- **Asia:** Christmas Island; Nauru; Niue and Tuvalu.

10. Data for Indonesia and Gabon, that re-joined OPEC in January and July 2016, respectively, are not included in the OPEC aggregate in the current edition.

11. Oil data for Liechtenstein are included under Switzerland.

4. CONVERSION FACTORS AND CALORIFIC VALUES

Units and conversions

The unit adopted by the IEA for energy balances 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. Conversion of the IEA energy balances to other energy units would be straightforward.

The main methodological choices underlying energy balances that can differentiate balances across organisations are: i) "net" versus "gross" energy content; ii) calorific values; and iii) primary energy conventions.

Net versus gross energy content

The IEA energy balances are based on a "net" energy content, which excludes the energy lost to produce water vapour during combustion. All the elements of the energy balance are expressed on the same net basis to ensure comparability. Even elements (e.g. natural gas) that in commodity balances may be already in energy units but on a different basis (e.g. "gross") are converted (e.g. from "gross" to "net").

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 they are not combusted.

Calorific values

Generally, the IEA adopts country-specific, time-varying, and for some products flow-dependent, net calorific values supplied by national administrations for most products; and regional default values (in conjunction with Eurostat for the European countries) for the oil products. More detailed explanations on the IEA conversion to energy units for the different energy sources are given at the end of this section.

Electricity data are converted from original units of gigawatt hours to million tonnes of oil equivalent using the relationship:

$$1 \text{ TWh} = 86 \text{ ktoe.}$$

Complete listings of net calorific values to convert energy sources from basic units to tonne of oil equivalent are reported in section IV and can be found at the end of this Chapter.

Electricity

All electricity data are reported to the IEA in GWh (for generation) or MW (for capacity).

Figures for electricity production, trade, and final consumption are calculated using the energy content of the electricity (i.e. at a rate of $1 \text{ TWh} = 86 \text{ ktoe}$).

Hydro-electricity production (excluding pumped storage) and electricity produced by other non-thermal means (wind, tide/wave/ocean, solar PV, etc.) are accounted for similarly using $1 \text{ TWh} = 86 \text{ ktoe}$.

The primary energy equivalent of nuclear electricity is calculated from the gross generation by assuming a 33% conversion efficiency, i.e. $1 \text{ TWh} = (86 \div 0.33) \text{ ktoe}$.

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

- 10% for geothermal electricity
1 TWh = $(86 \div 0.1)$ ktoe
- 33% for solar thermal electricity
1 TWh = $(86 \div 0.33)$ ktoe

Heat

Information on heat is supplied in terajoules and 1 terajoule = 2.388×10^{-5} Mtoe.

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

- 50% for geothermal heat
1 TJ = $(2.388 \times 10^{-5} \div 0.5)$ Mtoe.
- 100% for solar

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

Natural gas

In this publication, natural gas excludes natural gas liquids. For the net heat content of a natural gas, its gross heat content is multiplied by 0.9.

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, auto-producer 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 2014 are given in Part III.

Oil products

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

Regional net calorific values for petroleum 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 excluding biofuels	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 excluding biofuels		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	

ABBREVIATIONS

kW	:	kilowatt
kWp	:	kilowatt peak
kW _{th}	:	kilowatt thermal
GW	:	gigawatt
MW	:	megawatt (electric)
MW _{th}	:	megawatt thermal
kWh	:	kilowatt hour
MWh	:	megawatt hour
GWh	:	gigawatt hour
TWh	:	terawatt hour
GJ	:	gigajoule (10^9 joules)
TJ	:	terajoule (10^{12} joules)
EJ	:	exajoule (10^{18} joules)
m ²	:	metre squared
t	:	metric ton = tonne
kt	:	kilotonne (1000 tonnes)
1 toe	:	tonne of oil equivalent
1 ktoe	:	kilotonne of oil equivalent
1 Mtoe	:	million tonnes of oil equivalent
GDP	:	Gross domestic product
RES	:	Renewable energy Sources
TPES	:	Total primary energy supply
0 or 0.0	:	negligible
c	:	confidential data
e	:	estimated data
..	:	data not available
x	:	not applicable

CONVERSION FACTORS

General conversion factors for energy

To:	TJ	Gcal	Mtoe	MBtu	GWh
From:	multiply by:				
terajoule (TJ)	1	2.388x10 ²	2.388x10 ⁻⁵	9.478x10 ²	2.778x10 ⁻¹
gigacalorie (Gcal)	4.187x10 ⁻³	1	1.000x10 ⁻⁷	3.968	1.163x10 ⁻³
million tonnes of oil equivalent (Mtoe)	4.187x10 ⁴	1.000x10 ⁷	1	3.968x10 ⁷	1.163x10 ⁴
million British thermal units (MBtu)	1.055x10 ⁻³	2.520x10 ⁻¹	2.520x10 ⁻⁸	1	2.931x10 ⁻⁴
gigawatt hour (GWh)	3.600	8.598x10 ²	8.598x10 ⁻⁵	3.412x10 ³	1

Conversion factors for mass

To:	kg	t	lt	st	lb
From:	multiply by:				
kilogramme (kg)	1	1.000x10 ⁻³	9.842x10 ⁻⁴	1.102x10 ⁻³	2.205
tonne (t)	1.000x10 ³	1	9.842x10 ⁻¹	1.102	2.205x10 ³
long ton (lt)	1.016x10 ³	1.016	1	1.120	2.240x10 ³
short ton (st)	9.072x10 ²	9.072x10 ⁻¹	8.929x10 ⁻¹	1	2.000x10 ³
pound (lb)	4.536x10 ⁻¹	4.536x10 ⁻⁴	4.464x10 ⁻⁴	5.000x10 ⁻⁴	1

Conversion factors for volume

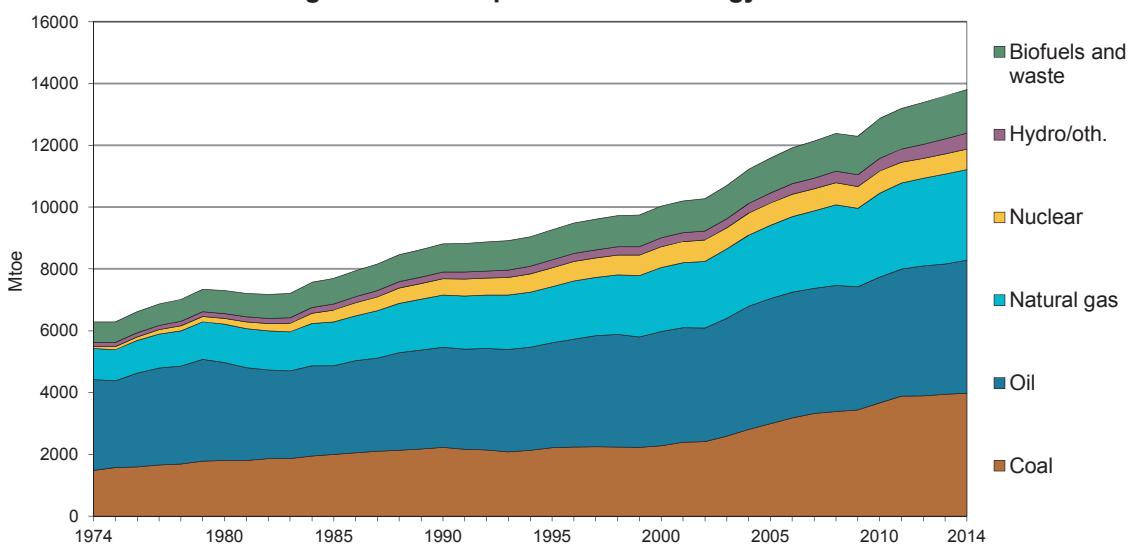
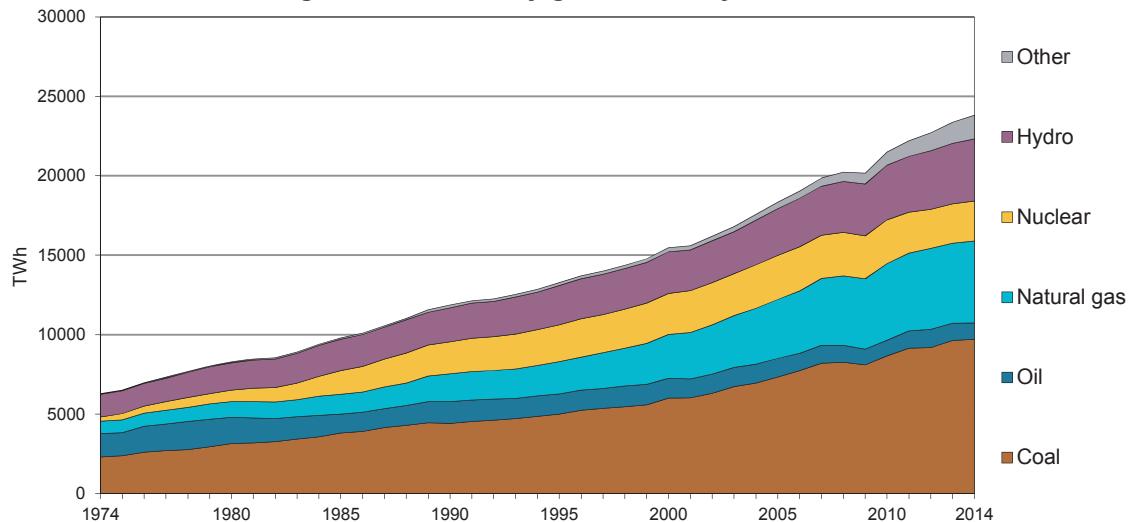
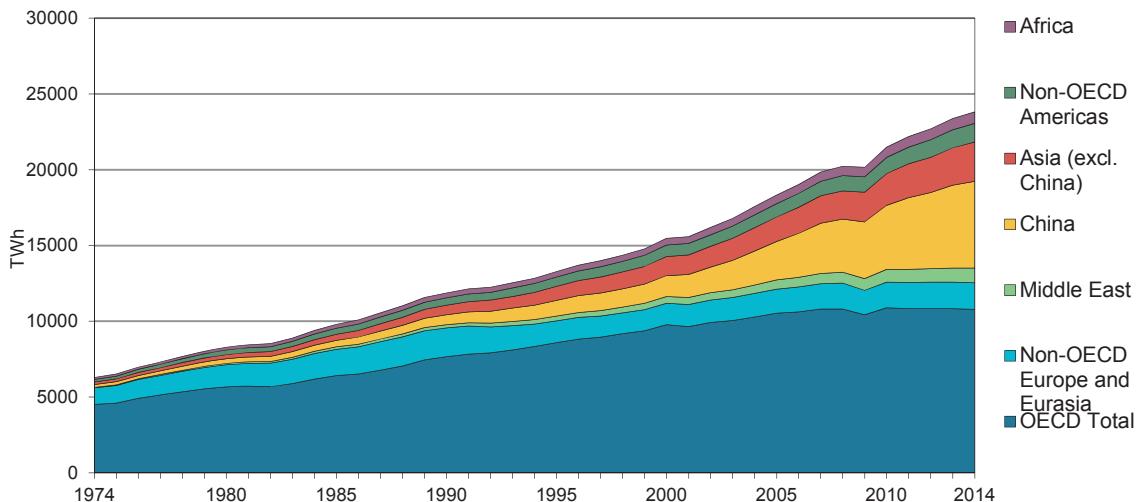
To:	gal U.S.	gal U.K.	bbl	ft ³	l	m ³
From:	multiply by:					
U.S. gallon (gal)	1	8.327x10 ⁻¹	2.381x10 ⁻²	1.337x10 ⁻¹	3.785	3.785x10 ⁻³
U.K. gallon (gal)	1.201	1	2.859x10 ⁻²	1.605x10 ⁻¹	4.546	4.546x10 ⁻³
Barrel (bbl)	4.200x10 ¹	3.497x10 ¹	1	5.615	1.590x10 ²	1.590x10 ⁻¹
Cubic foot (ft³)	7.481	6.229	1.781x10 ⁻¹	1	2.832x10 ¹	2.832x10 ⁻²
Litre (l)	2.642x10 ⁻¹	2.200x10 ⁻¹	6.290x10 ⁻³	3.531x10 ⁻²	1	1.000x10 ⁻³
Cubic metre (m³)	2.642x10 ²	2.200x10 ²	6.290	3.531x10 ¹	1.000x10 ³	1

Decimal prefixes

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

PART II

WORLD AND OECD OVERVIEW

World**Figure 1.1. Total production of energy 1974 - 2014****Figure 1.2. Electricity generation¹ by fuel 1974 - 2014****Figure 1.3. Electricity generation¹ by region 1974 - 2014**

1. Excludes production from pumped storage.

II. 4 - ELECTRICITY INFORMATION (2016 edition)

Table 1.0. World Energy balance, 2014

SUPPLY AND CONSUMPTION	Million tonnes of oil equivalent										
	Coal ¹	Crude oil	Oil products	Natural Gas	Nuclear	Hydro	Geotherm. solar etc.	Biofuels & Waste	Electricity	Heat	Total
Production	3976.14	4308.45	-	2928.32	661.35	334.94	181.07	1413.06	-	2.10	13805.44
Imports	842.15	2213.37	1193.32	844.32	-	-	-	20.22	61.73	0.01	5175.12
Exports	-863.14	-2159.50	-1242.64	-863.25	-	-	-	-18.97	-59.35	-0.01	-5206.85
Stock changes	-36.66	-12.46	-15.23	-8.81	-	-	-	-1.41	-	-	-74.58
TPES	3918.49	4349.86	-64.56	2900.58	661.35	334.94	181.07	1412.91	2.38	2.10	13699.13
Transfers	-0.47	-204.86	231.24	-	-	-	-	-	-	-	25.92
Statistical differences	-21.91	0.12	4.51	14.68	-	-	-0.06	0.16	-0.43	-0.45	-3.38
Electricity plants	-2112.98	-40.62	-201.89	-771.07	-653.73	-334.94	-140.89	-95.03	1868.42	-0.72	-2483.47
CHP plants	-164.61	-0.01	-17.07	-307.53	-7.62	-	-2.58	-57.43	179.71	148.31	-228.81
Heat plants	-130.32	-0.68	-13.19	-78.82	-	-	-1.00	-11.45	-0.38	179.67	-56.17
Blast furnaces	-209.84	-	-0.38	-0.16	-	-	-	-0.05	-	-	-210.43
Gas works	-10.92	-	-2.73	5.08	-	-	-	-0.09	-	-	-8.67
Coke/pat.fuel/BKB/PB plants	-76.25	-	-2.80	-0.01	-	-	-	-0.12	-	-	-79.19
Oil refineries	-	-4123.03	4049.60	-	-	-	-	-	-	-	-73.43
Petrochemical plants	-	33.00	-32.62	-	-	-	-	-	-	-	0.38
Liquefaction plants	-9.67	14.03	-	-17.42	-	-	-	-	-	-	-13.07
Other transformation	-0.43	10.07	-0.52	-11.88	-	-	-	-82.90	-	-0.73	-86.40
Energy industry own use	-101.76	-11.42	-205.29	-291.69	-	-	-0.00	-13.94	-174.52	-34.81	-833.44
Losses	-3.89	-8.90	-0.65	-21.77	-	-	-0.01	-0.19	-169.29	-19.58	-224.29
TFC	1075.42	17.57	3743.64	1419.98	-	-	36.54	1151.86	1705.90	273.77	9424.69
INDUSTRY	858.49	6.80	294.67	548.54	-	-	0.78	193.52	725.37	123.00	2751.17
Iron and steel	329.62	-	7.71	55.34	-	-	-	3.50	101.39	15.47	513.02
Chemical and petrochemical	99.40	0.06	55.00	121.06	-	-	0.00	1.63	100.81	50.24	428.20
Non-ferrous metals	24.28	-	4.97	16.80	-	-	0.00	0.06	79.63	3.35	129.09
Non-metallic minerals	242.62	0.01	41.50	54.75	-	-	0.00	9.07	51.78	3.12	402.84
Transport equipment	3.63	-	2.06	11.93	-	-	0.00	0.05	23.59	4.04	45.31
Machinery	14.39	-	7.21	25.71	-	-	0.00	0.16	78.57	5.35	131.40
Mining and quarrying	10.28	-	23.01	7.20	-	-	0.00	0.17	29.52	2.31	72.48
Food and tobacco	32.20	0.01	10.92	45.22	-	-	0.00	30.82	40.51	11.01	170.69
Paper pulp and printing	19.03	-	4.47	23.25	-	-	0.20	61.18	33.92	11.90	153.95
Wood and wood products	3.63	-	2.07	2.90	-	-	0.00	7.59	10.20	2.02	28.41
Construction	4.86	-	28.81	6.79	-	-	0.00	0.33	15.02	1.34	57.16
Textile and leather	13.95	0.01	4.02	6.24	-	-	0.00	0.27	28.71	6.96	60.16
Non-specified	60.60	6.71	102.91	171.33	-	-	0.57	78.69	131.73	5.91	558.45
TRANSPORT	2.86	-	2426.33	97.90	-	-	0.00	73.89	26.04	-	2627.02
World aviation bunkers	-	-	168.48	-	-	-	-	-	-	-	168.48
Domestic aviation	-	-	107.52	-	-	-	-	-	-	-	107.52
Road	-	-	1864.65	38.10	-	-	-	73.12	0.27	-	1976.14
Rail	2.81	-	29.66	-	-	-	-	0.25	19.95	-	52.68
Pipeline transport	-	-	0.35	59.00	-	-	-	-	2.72	-	62.06
World marine bunkers	-	-	194.64	-	-	-	-	0.08	-	-	194.72
Domestic navigation	-	-	53.35	0.11	-	-	-	0.43	-	-	53.38
Non-specified	0.05	-	7.69	0.70	-	-	0.00	0.01	3.09	-	11.54
OTHER	155.39	0.18	424.53	613.41	-	-	35.76	884.45	954.49	150.78	3218.98
Residential	75.05	-	207.08	419.66	-	-	27.09	847.51	460.41	105.31	2142.13
Comm. and publ. services	34.97	-	85.50	181.72	-	-	6.48	24.49	376.24	35.25	744.64
Agriculture/forestry	15.13	0.01	106.89	8.68	-	-	1.25	9.83	47.92	3.15	192.87
Fishing	0.00	-	5.84	0.06	-	-	0.07	0.01	0.50	0.02	6.50
Non-specified	30.23	0.16	19.22	3.29	-	-	0.87	2.60	69.42	7.05	132.85
NON-ENERGY USE	58.68	10.60	598.11	160.13	-	-	-	-	-	-	827.52
in industry/transf./energy	58.12	10.60	566.46	160.13	-	-	-	-	-	-	795.31
of which: chem./petrochem.	3.17	10.54	414.10	158.57	-	-	-	-	-	-	586.38
in transport	-	-	5.38	-	-	-	-	-	-	-	5.38
in other	0.56	-	26.27	-	-	-	-	-	-	-	26.83
Electricity and Heat Output											
Electr. Generated - GWh	9707489	143706	879299	5154827	2535326	3894708	1005259	492848	-	2337	23815799
Electricity plants	9118583	143694	813794	3969054	2508518	3894708	996837	278568	-	1142	21724898
CHP plants	588906	12	65505	1185773	26808	-	8422	214280	-	1195	2090901
Heat Generated - TJ	5669466	19308	622048	6071394	26464	-	383646	923875	8399	97639	13822239
CHP plants	1770680	150	184326	3661429	26464	-	12457	555179	443	51420	6262548
Heat plants	3898786	19158	437722	2409965	-	-	371189	368696	7956	46219	7559691

1. The column of coal also includes peat and oil shale.

**Table 1.1. World electricity production, imports, exports,
final consumption, 2014 (TWh)**

	Gross production ¹	Imports	Exports	Own use	Other use ²	Supply	Transm. Losses ³	Energy Indus. ⁴	Calc. consu- ption ⁵
World	23903.35	717.77	690.06	1258.66	123.09	22549.31	1968.53	739.75	19841.03
OECD Total	10846.94	479.32	474.72	485.16	88.55	10277.83	680.06	276.62	9321.15
<i>OECD Americas</i>	5370.65	81.44	74.37	248.87	26.44	5102.41	359.66	141.04	4601.71
<i>OECD Asia Oceania</i>	1944.27	-	4.84	72.86	14.64	1851.93	80.14	40.56	1731.24
<i>OECD Europe</i>	3532.01	397.87	395.51	163.43	47.47	3323.49	240.27	95.02	2988.20
Australia	248.30	-	-	14.83	0.06	233.41	11.87	13.49	208.06
Austria	65.42	26.71	17.44	3.08	5.47	66.15	3.28	2.40	60.47
Belgium	72.69	21.79	4.19	2.72	1.63	85.94	3.88	1.43	80.63
Canada	656.23	12.81	58.42	19.27	0.21	591.14	58.20	29.53	503.41
Chile	73.72	-	-	1.34	-	72.38	4.82	0.69	66.87
Czech Republic	86.02	11.84	28.14	6.12	1.38	62.23	3.85	2.18	56.20
Denmark	32.18	12.70	9.85	1.37	0.13	33.54	1.97	0.94	30.63
Estonia	12.45	3.73	6.48	1.43	-	8.26	0.84	0.51	6.91
Finland	68.09	21.62	3.66	2.64	0.24	83.18	2.77	1.27	79.14
France	562.78	7.87	75.06	23.36	7.98	464.25	35.38	16.28	412.59
Germany	627.80	40.44	74.32	35.84	8.00	550.06	24.16	13.07	512.84
Greece	50.47	9.46	0.64	3.77	0.19	55.33	4.15	1.69	49.50
Hungary	29.37	19.08	5.69	2.24	0.00	40.52	3.63	1.16	35.72
Iceland	18.12	-	-	0.45	0.20	17.48	0.50	0.52	16.46
Ireland	26.31	2.85	0.70	1.01	0.50	26.96	2.04	0.18	24.73
Israel*	60.81	-	4.84	1.99	-	53.98	1.74	0.88	51.36
Italy	279.83	46.75	3.03	10.68	2.33	310.54	19.45	9.59	281.50
Japan	1040.68	-	-	33.80	7.94 e	998.94 e	45.41	13.38 e	940.15 e
Korea	550.93	-	-	20.93	6.64	523.36	18.27	12.21	492.88
Luxembourg	2.97	6.96	2.07	0.03	1.50	6.34	0.12	-	6.22
Mexico	301.50	2.12	2.65	11.45	-	289.52	41.32	4.56	243.64
Netherlands	103.42	32.86	18.13	4.64	-	113.50	4.93	5.59	102.98
New Zealand	43.55	-	-	1.31	-	42.24	2.85	0.60	38.80
Norway	142.33	6.35	21.93	0.71	1.90	124.14	8.59	7.14	108.41
Poland	159.06	13.51	11.34	13.85	0.82	146.56	10.25	10.45	125.86
Portugal	52.80	7.25	6.34	1.28	1.08	51.35	5.21	0.94	45.20
Slovak Republic	27.40	12.96	11.86	2.39	0.36	25.75	0.67	0.93	24.16
Slovenia	17.44	7.25	10.00	0.95	0.36	13.38	0.82	0.10	12.46
Spain	278.75	12.31	15.72	10.37	5.20	259.77	26.39	6.41	226.97
Sweden	153.66	13.85	29.48	3.71	1.96	132.38	7.33	2.85	122.19
Switzerland	71.77	28.53	34.02	1.76	2.36	62.15	4.70	-	57.46
Turkey	251.96	7.95	2.70	12.51	-	244.71	37.33	1.93	205.44
United Kingdom	338.93	23.24	2.72	16.52	3.88	339.04	28.01	7.47	303.56
United States	4339.21 e	66.51	13.30	216.82	26.23	4149.38 e	255.32	106.26	3787.79 e

Source: IEA/OECD *World Energy Statistics*.

1. Gross production refers to total main activity producers and autoproducers production, including production from pumped storage.

2. Other use refers to used for heat pumps, electric boilers and pumped storage.

3. Includes distribution losses.

4. Electricity consumed by energy industries for heating, traction and lighting purposes; excludes own and other use.

5. Calculated final consumption may differ from observed final consumption due to statistical difference.

*Please refer to Geographical Coverage.

Table 1.1. World electricity production, imports, exports, final consumption, 2014 (TWh) (continued)

	Gross production ¹	Imports	Exports	Own use	Other use ²	Supply	Transm. Losses ³	Energy Indus. ⁴	Calc. consu- mption ⁵
Non-OECD Total	13056.42	238.45	215.34	773.50	34.55	12271.48	1288.46	463.13	10519.88
Africa	765.04	38.77	31.40	33.88	4.69	733.84	115.85	14.81	603.18
N.OECD Amer.	1217.43	47.86	46.21	27.61	0.54	1190.92	198.33	23.46	969.13
Asia (excl. China)	2611.34	35.91	10.07	143.03	3.67	2490.48	357.34	11.42	2121.72
China (Region)	5718.85	17.04	19.38	400.92	18.16	5297.42	314.97	222.93	4759.52
N.OECD E.& Eurasia	1753.84	81.96	98.17	127.56	7.49	1602.58	180.67	169.98	1251.93
Middle East	989.92	16.92	10.10	40.51	-	956.23	121.30	20.53	814.40
Algeria	64.24	0.69	0.88	6.55	-	57.50	11.00	0.75	45.75
Angola	9.48	-	-	0.23	-	9.25	1.07	-	8.18
Benin	0.18	1.10	-	-	-	1.29	0.25	-	1.03
Botswana	2.36	1.68	-	0.29	-	3.76	0.26	-	3.50
Cameroon	6.92	-	-	0.76	-	6.17	0.68	-	5.49
Congo	1.74	0.02	0.02	0.20	-	1.54	0.78	-	0.77
DR of Congo	8.83	1.14	0.07	0.64	-	9.26	1.90	-	7.37
Côte d'Ivoire	8.29	-	0.88	0.41	-	7.00	1.19	-	5.81
Egypt	171.75	0.08	0.47	5.65	-	165.71	19.15	-	146.56
Eritrea	0.37	-	-	0.02	-	0.35	0.05	-	0.30
Ethiopia	9.62	-	1.05	0.26	-	8.30	1.78	-	6.53
Gabon	2.37	0.39	-	0.08	-	2.67	0.56	0.05	2.07
Ghana	12.96	0.05	0.52	0.09	-	12.41	2.93	-	9.48
Kenya	9.26	0.08	0.04	0.03	-	9.27	1.63	-	7.65
Libya	37.73	0.09	-	0.63	-	37.19	26.30	-	10.89
Mauritius	2.93	-	-	-	-	2.93	0.18	0.05	2.71
Morocco	29.14	6.14	0.13	0.55	0.52	34.09	4.23	1.05	28.81
Mozambique	17.74	7.66	10.20	0.24	-	14.96	2.61	-	12.35
Namibia	1.50	2.89	0.08	-	-	4.30	0.54	-	3.76
Niger*	0.44	0.73	-	0.05	-	1.12	0.19	-	0.93
Nigeria	30.39	-	-	0.87	-	29.52	4.90	0.19	24.44
Senegal	3.73	-	-	0.04	-	3.69	0.48	-	3.21
South Africa	252.58	11.18	13.84	14.31	4.17	231.45	20.94	12.41	198.09
South Sudan*	0.49	-	-	0.02	-	0.47	0.03	-	0.44
Sudan*	11.38	-	-	0.04	-	11.34	1.63	-	9.71
UR of Tanzania	6.22	0.06	-	-	-	6.28	1.10	0.02	5.16
Togo	0.14	1.07	-	0.01	-	1.20	0.10	-	1.09
Tunisia	19.02	0.54	0.63	0.65	-	18.28	2.84	0.23	15.21
Zambia	14.45	0.01	1.26	0.33	-	12.88	2.16	-	10.72
Zimbabwe	10.02	1.13	1.23	0.18	-	9.74	1.65	-	8.09
Other Africa	18.76	2.07	0.12	0.76	-	19.95	2.78	0.08	17.10
Argentina	141.59	10.02	0.17	3.90	0.54	147.00	20.25	-	126.75
Bolivia	8.76	-	-	0.19	-	8.56	0.81	-	7.76

Source: IEA/OECD *World Energy Statistics*.

1. Gross production refers to total main activity producers and autoproducers production, including production from pumped storage.

2. Other use refers to used for heat pumps, electric boilers and pumped storage.

3. Includes distribution losses.

4. Electricity consumed by energy industries for heating, traction and lighting purposes; excludes own and other use.

5. Calculated final consumption may differ from observed final consumption due to statistical difference.

*Please refer to Geographical Coverage.

Table 1.1. World electricity production, imports, exports, final consumption, 2014 (TWh) (continued)

	Gross production ¹	Imports	Exports	Own use	Other use ²	Supply	Transm. Losses ³	Energy Indus. ⁴	Calc. consumption ⁵
Brazil	590.63	33.78	0.00	8.69	-	615.72	93.17	21.62	500.93
Colombia	69.92	0.05	0.85	1.98	-	67.14	7.49	-	59.65
Costa Rica	10.22	0.76	0.56	0.12	-	10.30	1.11	-	9.20
Cuba	19.37	-	-	1.01	-	18.35	2.96	-	15.39
Dominican Rep.	18.57	-	-	0.68	-	17.90	2.15	-	15.74
Ecuador	24.31	0.84	0.05	0.53	-	24.57	3.14	-	21.43
El Salvador	6.22	0.59	0.21	0.34	-	6.26	0.71	-	5.56
Guatemala	10.73	0.55	1.05	0.91	-	9.30	1.02	-	8.29
Haiti	1.03	-	-	0.01	-	1.02	0.62	-	0.40
Honduras	8.04	0.83	0.51	-	-	8.36	2.81	-	5.55
Jamaica	4.12	-	-	0.01	-	4.11	1.10	-	3.01
N. Antil./Curaçao*	0.89	-	-	0.08	-	0.81	0.14	-	0.66
Nicaragua	4.44	0.02	0.05	0.16	-	4.26	0.93	-	3.33
Panama	9.29	0.19	0.10	0.20	-	9.18	1.33	-	7.85
Paraguay	55.28	-	41.40	0.45	-	13.43	3.64	-	9.80
Peru	45.53	-	0.01	0.80	-	44.71	5.02	-	39.70
Suriname	2.18	-	-	0.04	-	2.15	0.19	-	1.96
Trinidad and T.	9.89	-	-	0.36	-	9.53	0.23	-	9.30
Uruguay	13.01	-	1.27	0.36	-	11.38	1.25	-	10.13
Venezuela	127.73	-	-	5.85	-	121.88	46.04	1.85	73.99
Other N.OECD Amer.	35.68	0.24	-	0.93	-	34.99	2.24	-	32.75
Bangladesh	55.85	-	-	3.35	-	52.49	6.37	-	46.13
Brunei Darussalam	4.51	-	-	0.45	-	4.06	0.29	0.41	3.36
Cambodia	3.06	1.80	-	0.04	-	4.83	0.72	-	4.11
India	1287.40	5.01	-	87.98	-	1204.42	250.07	7.22	947.13
Indonesia	228.56	0.01	-	8.53	-	220.03	21.42	-	198.61
DPR of Korea	17.91	-	-	1.70	-	16.21	2.83	-	13.38
Malaysia	147.47	0.02	0.01	6.30	-	141.18	8.54	-	132.64
Mongolia	5.38	1.35	0.03	0.77	-	5.92	0.79	-	5.13
Myanmar	14.16	-	-	-	-	14.16	2.90	-	11.26
Nepal	3.80	1.37	0.00	0.04	-	5.13	1.22	-	3.90
Pakistan	105.31	0.43	-	3.80	-	101.93	18.33	-	83.60
Philippines	77.26	-	-	6.65	-	70.62	7.27	-	63.35
Singapore	49.38	-	-	1.98	-	47.41	1.00	-	46.40
Sri Lanka	12.46	-	-	0.41	-	12.05	1.43	-	10.63
Chinese Taipei	260.03	-	-	11.60	3.67	244.76	8.96	3.79	232.00
Thailand	173.63	12.26	1.59	5.93	-	178.37	10.55	-	167.82
Viet Nam	140.91	4.13	1.51	2.28	-	141.25	12.96	-	128.29
Other Asia	24.29	9.53	6.92	1.22	-	25.68	1.68	-	24.00

Source: IEA/OECD *World Energy Statistics*.

1. Gross production refers to total main activity producers and autoproducers production, including production from pumped storage.

2. Other use refers to used for heat pumps, electric boilers and pumped storage.

3. Includes distribution losses.

4. Electricity consumed by energy industries for heating, traction and lighting purposes; excludes own and other use.

5. Calculated final consumption may differ from observed final consumption due to statistical difference.

*Please refer to Geographical Coverage.

Table 1.1. World electricity production, imports, exports, final consumption, 2014 (TWh) (continued)

	Gross production ¹	Imports	Exports	Own use	Other use ²	Supply	Transm. Losses ³	Energy Indus. ⁴	Calc. consu- ption ⁵
PR of China	5678.95	6.75	18.16	400.92	18.16	5248.46	309.99	222.93	4715.55
Hong Kong, China	39.90	10.29	1.23	-	-	48.97	4.99	-	43.98
Albania	4.72	3.25	0.18	0.02	-	7.78	1.12	0.15	6.51
Armenia	7.75	0.21	1.31	0.36	-	6.28	0.93	-	5.35
Azerbaijan	24.73	0.12	0.49	1.00	-	23.37	3.36	3.01	17.00
Belarus	34.74	7.81	4.49	2.22	-	35.84	3.19	2.43	30.22
Bosnia and H.	16.16	3.16	6.00	0.99	-	12.34	1.32	0.43	10.59
Bulgaria	47.49	4.32	13.77	4.25	0.82	32.96	4.01	1.21	27.73
Croatia	13.55	10.90	6.95	0.40	0.17	16.94	1.76	0.35	14.83
Cyprus*	4.35	-	-	0.21	-	4.15	0.17	0.01	3.97
F.Y.R. Macedonia	5.37	3.07	0.11	0.40	-	7.94	1.07	0.14	6.73
Georgia	10.37	0.85	0.60	0.22	-	10.40	0.60	0.02	9.79
Gibraltar	0.20	-	-	0.00	-	0.19	0.01	-	0.19
Kazakhstan	105.07	1.75	2.92	19.78	-	84.12	7.08	7.78	69.26
Kosovo	5.44	0.97	0.48	0.43	-	5.49	0.82	-	4.68
Kyrgyzstan	14.57	0.29	0.07	0.27	-	14.52	3.46	0.07	10.98
Latvia	5.14	5.34	3.02	0.41	0.00	7.05	0.47	-	6.58
Lithuania	4.40	8.52	0.90	0.25	0.94	10.82	0.82	0.77	9.24
Malta	2.25	-	-	0.11	-	2.14	0.11	-	2.03
Rep. of Moldova	5.35	0.73	-	0.32	-	5.76	1.15	0.05	4.56
Montenegro	3.17	0.89	0.64	0.14	-	3.29	0.56	-	2.73
Romania	65.68	2.81	9.94	4.98	0.62	52.96	7.10	3.90	41.96
Russian Federation	1064.21	6.62	14.67	69.55	2.92	983.69	106.57	139.29	737.83
Serbia	34.06	7.01	5.45	2.16	0.90	32.56	5.16	1.24	26.16
Tajikistan	16.47	0.03	1.33	0.02	-	15.16	2.80	0.06	12.29
Turkmenistan	20.40	-	3.21	1.54	-	15.65	2.55	2.01	11.09
Ukraine	182.82	0.09	8.52	14.39	1.12	158.87	19.62	5.47	133.79
Uzbekistan	55.40	13.22	13.12	3.16	-	52.34	4.88	1.59	45.86
Bahrain	27.25	0.24	0.24	0.00	-	27.25	1.07	-	26.18
IR of Iran	274.61	3.77	9.66	8.89	-	259.83	34.61	2.55	222.68
Iraq	67.77	12.25	-	1.71	-	78.31	34.31	-	43.99
Jordan	18.22	0.44	0.06	0.63	-	17.96	1.96	0.10	15.90
Kuwait	65.14	-	-	7.59	-	57.55	7.60	6.91	43.05
Lebanon	17.95	0.14	-	-	-	18.09	1.88	-	16.21
Oman	29.13	-	-	0.79	-	28.34	3.17	-	25.17
Qatar	38.69	-	-	2.57	-	36.12	2.34	-	33.78
Saudi Arabia	311.81	-	-	7.57	-	304.24	21.14	10.98	272.12
Syrian Arab R.	21.73	-	0.14	2.48	-	19.11	3.35	-	15.75
UAE	109.98	0.08	-	7.08	-	102.99	7.89	-	95.10
Yemen	7.65	-	-	1.21	-	6.44	1.97	-	4.47

Source: IEA/OECD *World Energy Statistics*.

1. Gross production refers to total main activity producers and autoproducers production, including production from pumped storage.

2. Other use refers to used for heat pumps, electric boilers and pumped storage.

3. Includes distribution losses.

4. Electricity consumed by energy industries for heating, traction and lighting purposes; excludes own and other use.

5. Calculated final consumption may differ from observed final consumption due to statistical difference.

*Please refer to Geographical Coverage.

Table 1.2. World gross electricity production, by source, 2014 (TWh)

	Fossil fuels ¹	Nuclear	Hydro	Geo-thermal	Solar/wind ²	Biofuels & waste ³	Total
World	15885.32	2535.33	3982.51	77.38	930.22	492.85	23903.35
OECD Total	6369.92	1980.65	1463.30	48.37	656.96	327.73	10846.94
OECD Americas	3329.75	947.94	726.09	24.71	248.27	93.88	5370.65
OECD Asia Oceania	1545.65	156.41	137.53	9.84	52.96	41.89	1944.27
OECD Europe	1494.52	876.31	599.68	13.82	355.73	191.96	3532.01
Australia	211.26	-	18.42	0.00	15.11	3.51	248.30
Austria	10.92	-	44.83	-	4.64	5.03	65.42
Belgium	23.91	33.70	1.51	-	7.90	5.67	72.69
Canada	134.05	107.68	382.57	-	26.57	5.36	656.23
Chile	43.07	-	23.10	-	2.22	5.33	73.72
Czech Republic	45.41	30.33	2.96	-	2.60	4.73	86.02
Denmark	13.48	-	0.02	-	13.68	5.02	32.18
Estonia	10.98	-	0.03	-	0.60	0.83	12.45
Finland	17.57	23.58	13.40	-	1.41	12.14	68.09
France	26.56	436.47	68.63	-	24.19	6.93	562.78
Germany	352.84	97.13	25.44	0.10	95.44	56.85	627.80
Greece	38.07	-	4.61	-	7.48	0.32	50.47
Hungary	10.41	15.65	0.30	-	0.77	2.24	29.37
Iceland	0.00	-	12.87	5.24	0.01	-	18.12
Ireland	19.59	-	0.99	-	5.14	0.60	26.31
Israel*	59.89	-	0.01	-	0.85	0.06	60.81
Italy	154.32	-	60.26	5.92	38.15	21.19	279.83
Japan	886.09	-	86.94	2.58	29.54 e	35.52 e	1040.68
Korea	379.35	156.41	7.82	-	5.20	2.16	550.93
Luxembourg	1.45	-	1.17	-	0.18	0.17	2.97
Mexico	238.85	9.68	38.89	6.00	6.65	1.43	301.50
Netherlands	85.85	4.09	0.11	-	6.73	6.64	103.42
New Zealand	9.06	-	24.34	7.26	2.27	0.63	43.55
Norway	2.79	-	136.64	-	2.52	0.39	142.33
Poland	138.47	-	2.73	-	7.83	10.03	159.06
Portugal	20.14	-	16.41	0.21	12.75	3.30	52.80
Slovak Republic	5.28	15.50	4.46	-	0.72	1.44	27.40
Slovenia	4.18	6.37	6.37	-	0.26	0.27	17.44
Spain	106.69	57.31	42.97	-	65.69	6.10	278.75
Sweden	1.71	64.88	63.87	-	11.28	11.93	153.66
Switzerland	0.56	27.56	39.70	-	0.94	3.00	71.77
Turkey	198.99	-	40.65	2.36	8.78	1.19	251.96
United Kingdom	204.35	63.75	8.77	-	36.07	25.99	338.93
United States	2913.79	830.58	281.53	18.71	212.83 e	81.77	4339.21

Source: IEA/OECD *World Energy Statistics*.

1. Includes hard coal, brown coal, peat, oil shale and oil sands, coal gases, oil products and natural gas.

2. Includes tide, wave, ocean and other (fuel cells etc).

3. Includes wood/wood waste/other solid waste, industrial and municipal waste, biogases and liquid biofuels.

Note: Including electricity production from pumped storage.

*Please refer to Geographical Coverage.

Table 1.2. World gross electricity production, by source, 2014 (TWh) (continued)

	Fossil fuels ¹	Nuclear	Hydro	Geo-thermal	Solar/wind ²	Biofuels & waste ³	Total
Non-OECD Total	9515.40	554.67	2519.21	29.01	273.26	165.12	13056.42
Africa	612.12	13.79	126.41	4.08	7.05	1.83	765.04
N.OECD Amer.	437.16	21.13	678.04	4.01	18.03	59.06	1217.43
Asia (excl. China)	2098.30	83.58	320.43	20.35	47.64	41.05	2611.34
China (Region)	4279.04	132.54	1064.34	0.13	185.32	57.49	5718.85
N.OECD E. & Eurasia	1124.09	299.15	309.95	0.46	14.55	5.64	1753.84
Middle East	964.69	4.47	20.04	-	0.66	0.05	989.92
Algeria	63.99	-	0.25	-	-	-	64.24
Angola	4.44	-	5.04	-	-	-	9.48
Benin	0.18	-	-	-	-	0.00	0.18
Botswana	2.36	-	-	-	0.00	-	2.36
Cameroon	1.78	-	5.07	-	-	0.07	6.92
Congo	0.79	-	0.95	-	-	-	1.74
DR of Congo	0.01	-	8.82	-	-	-	8.83
Côte d'Ivoire	6.30	-	1.91	-	-	0.07	8.29
Egypt	156.21	-	13.98	-	1.56	-	171.75
Eritrea	0.37	-	-	-	0.00	-	0.37
Ethiopia	0.01	-	9.20	0.02	0.39	-	9.62
Gabon	1.56	-	0.80	-	0.00	0.01	2.37
Ghana	4.57	-	8.39	-	0.00	-	12.96
Kenya	1.71	-	3.31	4.06	0.04	0.14	9.26
Libya	37.73	-	-	-	-	-	37.73
Mauritius	2.34	-	0.09	-	0.03	0.48	2.93
Morocco	25.19	-	2.03	-	1.92	-	29.14
Mozambique	1.57	-	16.18	-	-	-	17.74
Namibia	0.01	-	1.49	-	-	-	1.50
Niger*	0.69	-	-	-	0.00	-	0.44
Nigeria	25.04	-	5.35	-	-	-	30.39
Senegal	3.27	-	0.32	-	0.07	0.06	3.73
South Africa	232.21	13.79	4.08	-	2.19	0.30	252.58
South Sudan*	0.49	-	-	-	0.00	-	0.49
Sudan*	2.46	-	8.91	-	-	-	11.38
UR of Tanzania	3.59	-	2.59	-	0.02	0.02	6.22
Togo	0.02	-	0.12	-	-	0.01	0.14
Tunisia	18.25	-	0.06	-	0.71	-	19.02
Zambia	0.41	-	14.04	-	-	-	14.45
Zimbabwe	4.45	-	5.43	-	-	0.14	10.02
Other Africa	10.12	-	8.01	-	0.10	0.53	18.76
Argentina	90.96	5.76	41.35	-	0.75	2.78	141.59
Bolivia	6.30	-	2.25	-	0.01	0.19	8.76

Source: IEA/OECD *World Energy Statistics*.

1. Includes hard coal, brown coal, peat, oil shale and oil sands, coal gases, oil products and natural gas.

2. Includes tide, wave, ocean and other (fuel cells etc).

3. Includes wood/wood waste/other solid waste, industrial and municipal waste, biogases and liquid biofuels.

Note: Including electricity production from pumped storage.

*Please refer to Geographical Coverage.

Table 1.2. World gross electricity production, by source, 2014 (TWh) (continued)

	Fossil fuels ¹	Nuclear	Hydro	Geo-thermal	Solar/wind ²	Biofuels & waste ³	Total
Brazil	143.25	15.38	373.44	-	12.57	45.99	590.63
Colombia	18.01	-	49.71	-	0.06	2.14	69.92
Costa Rica	1.04	-	6.72	1.54	0.74	0.18	10.22
Cuba	18.59	-	0.10	-	0.04	0.64	19.37
Dominican Rep.	16.11	-	1.58	-	0.85	0.03	18.57
Ecuador	12.35	-	11.46	-	0.10	0.40	24.31
El Salvador	2.51	-	1.72	1.56	-	0.44	6.22
Guatemala	3.37	-	4.85	0.25	0.01	2.26	10.73
Haiti	0.94	-	0.09	-	-	-	1.03
Honduras	4.52	-	2.60	-	0.40	0.52	8.04
Jamaica	3.72	-	0.14	-	0.12	0.15	4.12
N. Antil./Curaçao*	0.86	-	-	-	0.03	-	0.89
Nicaragua	2.05	-	0.40	0.66	0.85	0.49	4.44
Panama	4.11	-	5.03	-	0.12	0.03	9.29
Paraguay	0.01	-	55.28	-	-	-	55.28
Peru	21.77	-	22.20	-	0.27	1.29	45.53
Suriname	0.82	-	1.36	-	-	-	2.18
Trinidad and T.	9.89	-	-	-	-	-	9.89
Uruguay	1.18	-	9.65	-	0.73	1.45	13.01
Venezuela	40.54	-	87.19	-	-	-	127.73
Other N.OECD Amer.	34.28	-	0.92	-	0.41	0.08	35.68
Bangladesh	55.11	-	0.59	-	0.15	-	55.85
Brunei Darussalam	4.50	-	-	-	0.00	-	4.51
Cambodia	1.19	-	1.85	-	0.00	0.01	3.06
India	1052.15	36.10	131.64	-	42.06	25.44	1287.40
Indonesia	202.40	-	15.15	10.04	0.01	0.96	228.56
DPR of Korea	4.91	-	13.00	-	-	-	17.91
Malaysia	133.15	-	13.39	-	0.23	0.70	147.47
Mongolia	5.21	-	-	-	0.17	-	5.38
Myanmar	5.33	-	8.83	-	-	-	14.16
Nepal	0.00	-	3.79	-	0.01	-	3.80
Pakistan	68.39	5.09	31.43	-	0.40	-	105.31
Philippines	57.45	-	9.14	10.31	0.17	0.20	77.26
Singapore	47.93	-	-	-	0.04	1.42	49.38
Sri Lanka	7.58	-	4.55	-	0.29	0.04	12.46
Chinese Taipei	204.46	42.39	7.44	-	2.05	3.68	260.03
Thailand	157.86	-	5.54	0.00	1.69	8.54	173.63
Viet Nam	82.22	-	58.54	-	0.09	0.06	140.91
Other Asia	8.46	-	15.55	-	0.28	-	24.29

Source: IEA/OECD *World Energy Statistics*.

1. Includes hard coal, brown coal, peat, oil shale and oil sands, coal gases, oil products and natural gas.

2. Includes tide, wave, ocean and other (fuel cells etc).

3. Includes wood/wood waste/other solid waste, industrial and municipal waste, biogases and liquid biofuels.

Note: Including electricity production from pumped storage.

*Please refer to Geographical Coverage.

Table 1.2. World gross electricity production, by source, 2014 (TWh) (continued)

	Fossil fuels ¹	Nuclear	Hydro	Geo-thermal	Solar/wind ²	Biofuels & waste ³	Total
PR of China	4239.24	132.54	1064.34	0.13	185.32	57.39	5678.95
Hong Kong, China	39.80	-	-	-	0.00	0.10	39.90
Albania	-	-	4.72	-	-	-	4.72
Armenia	3.29	2.47	1.99	-	0.00	-	7.75
Azerbaijan	23.25	-	1.30	-	0.01	0.17	24.73
Belarus	34.45	-	0.12	-	0.01	0.16	34.74
Bosnia and H.	10.23	-	5.94	-	-	-	16.16
Bulgaria	23.66	15.87	5.16	-	2.60	0.20	47.49
Croatia	3.50	-	9.13	-	0.77	0.17	13.55
Cyprus*	4.03	-	-	-	0.27	0.05	4.35
F.Y.R. Macedonia	4.08	-	1.21	-	0.09	-	5.37
Georgia	2.04	-	8.34	-	-	-	10.37
Gibraltar	0.20	-	-	-	-	-	0.20
Kazakhstan	96.79	-	8.26	-	0.01	-	105.07
Kosovo	5.29	-	0.15	-	-	-	5.44
Kyrgyzstan	1.27	-	13.30	-	-	-	14.57
Latvia	2.34	-	1.99	-	0.14	0.67	5.14
Lithuania	1.91	-	1.09	-	0.96	0.44	4.40
Malta	2.17	-	-	-	0.07	0.01	2.25
Rep. of Moldova	5.02	-	0.32	-	0.00	0.01	5.35
Montenegro	1.42	-	1.75	-	-	-	3.17
Romania	26.40	11.68	19.28	-	7.82	0.51	65.68
Russian Federation	702.50	180.76	177.14	0.46	0.26	3.10	1064.21
Serbia	22.41	-	11.62	-	0.01	0.03	34.06
Tajikistan	0.47	-	16.00	-	-	-	16.47
Turkmenistan	20.40	-	-	-	-	-	20.40
Ukraine	83.42	88.39	9.32	-	1.56	0.13	182.82
Uzbekistan	43.57	-	11.83	-	-	-	55.40
Bahrain	27.25	-	-	-	-	-	27.25
IR of Iran	255.87	4.47	13.86	-	0.36	0.05	274.61
Iraq	64.84	-	2.93	-	-	-	67.77
Jordan	18.15	-	0.06	-	0.00	0.01	18.22
Kuwait	65.14	-	-	-	-	-	65.14
Lebanon	17.76	-	0.19	-	-	-	17.95
Oman	29.13	-	-	-	-	-	29.13
Qatar	38.69	-	-	-	-	-	38.69
Saudi Arabia	311.81	-	-	-	0.00	-	311.81
Syrian Arab R.	18.73	-	3.00	-	-	-	21.73
UAE	109.68	-	-	-	0.30	-	109.98
Yemen	7.65	-	-	-	-	-	7.65

Source: IEA/OECD *World Energy Statistics*.

1. Includes hard coal, brown coal, peat, oil shale and oil sands, coal gases, oil products and natural gas.

2. Includes tide, wave, ocean and other (fuel cells etc).

3. Includes wood/wood waste/other solid waste, industrial and municipal waste, biogases and liquid biofuels.

Note: Including electricity production from pumped storage.

*Please refer to Geographical Coverage.

Table 1.3. World gross electricity production from combustible fuels, 2014 (TWh)

	Coal				Oil	Natural Gas	Solid biofuels	Indust. waste	Municip. waste	Biogases liq. biof.	Tot. Comb. Fuels
	Steam	Lignite	Gases	Other							
World	8739.32	660.41	196.39	20.86	1023.01	5154.83	312.87	24.80	68.75	86.43	16287.67
OECD Total	2884.04	465.48	99.50	18.17	276.99	2615.12	174.50	8.71	62.03	82.48	6687.04
OECD Americas	1730.09	102.57	4.52	-	85.44	1407.13	59.16	2.90	16.86	14.97	3423.63
OECD Asia Oceania	657.87	46.03	60.27	0.11	139.15	642.23	31.46	2.10	5.19	3.14	1587.54
OECD Europe	496.08	316.88	34.71	18.06	52.40	565.77	83.89	3.72	39.99	64.37	1675.87
Australia	105.77	46.01	-	0.07	5.01	54.39	1.88	-	-	1.64	214.77
Austria	2.96	-	1.95	-	0.61	5.40	3.44	0.30	0.68	0.62	15.95
Belgium	2.23	-	2.17	-	0.22	19.29	2.63	0.41	1.67	0.96	29.58
Canada	54.72	9.96	0.03	-	7.97	61.36	4.12	-	0.27	0.97	139.40
Chile	26.01	-	-	-	4.58	12.48	5.29	-	-	0.04	48.40
Czech Republic	5.19	35.74	2.80	-	0.04	1.65	1.99	0.01	0.15	2.58	50.14
Denmark	11.06	-	-	-	0.32	2.10	2.96	-	1.61	0.45	18.49
Estonia	0.01	-	0.51	10.36	0.04	0.07	0.73	-	0.07	0.03	11.82
Finland	7.92	-	0.49	3.40	0.24	5.52	10.97	0.08	0.74	0.35	29.71
France	9.52	-	2.49	-	1.81	12.74	1.64	0.16	3.65	1.48	33.48
Germany	109.33	154.21	10.50	1.61	5.66	62.27	11.87	1.36	12.14	31.48	400.43
Greece	-	25.75	-	-	5.54	6.78	-	0.10	-	0.22	38.39
Hungary	0.05	5.94	0.12	-	0.07	4.23	1.70	0.02	0.24	0.28	12.65
Iceland	-	-	-	-	0.00	-	-	-	-	-	0.00
Ireland	4.02	-	-	2.47	0.19	12.91	0.26	-	0.13	0.21	20.19
Israel*	30.10	-	-	0.04	0.30	29.46	-	-	-	0.06	59.95
Italy	43.45	-	3.07	-	14.16	93.64	3.82	0.08	4.74	12.54	175.51
Japan	310.38	-	38.44	0.01	116.44	420.83	28.93	1.77	4.83 e	-	921.61
Korea	210.30	-	21.20	-	17.40	130.46	0.27	0.34	0.36	1.20	381.51
Luxembourg	-	-	-	-	-	1.45	0.02	-	0.09	0.06	1.62
Mexico	33.58	-	0.31	-	33.01	171.96	1.19	0.08	-	0.16	240.28
Netherlands	29.49	-	2.94	-	1.91	51.52	2.10	-	3.54	1.01	92.49
New Zealand	1.32	0.02	0.62	-	0.01	7.09	0.39	-	-	0.25	9.69
Norway	0.04	-	0.12	-	0.03	2.60	0.01	0.01	0.35	0.01	3.17
Poland	75.98	53.37	2.03	-	1.59	5.33	9.16	0.04	0.01	0.82	148.32
Portugal	11.95	-	-	-	1.36	6.83	2.53	0.01	0.48	0.28	23.44
Slovak Republic	0.95	1.91	0.48	0.01	0.30	1.62	0.92	0.01	0.03	0.48	6.72
Slovenia	0.40	3.36	-	-	0.04	0.37	0.13	0.01	-	0.13	4.44
Spain	43.81	-	1.49	-	14.12	47.27	3.82	..	1.37	0.91	112.79
Sweden	0.37	-	0.41	0.22	0.30	0.41	9.01	0.15	2.71	0.06	13.63
Switzerland	-	-	-	-	0.04	0.52	0.30	0.21	2.20	0.29	3.57
Turkey	36.51	36.62	1.98	-	2.15	120.58	0.03	0.10	-	1.05	199.01
United Kingdom	100.85	-	1.17	-	1.67	100.67	13.85	0.67	3.37	8.10	230.34
United States	1615.79	92.61	4.18	-	39.88	1161.33	48.56	2.82	16.59	13.79	2995.56

Source: IEA/OECD *World Energy Statistics*.

*Please refer to Geographical Coverage.

Table 1.3. World gross electricity production from combustible fuels, 2014 (TWh) (continued)

	Coal				Oil	Natural Gas	Solid biofuels	Indust. waste	Municip. waste	Biogases liq. biof.	Tot. Comb. Fuels
	Steam	Lignite	Gases	Other							
Non-OECD Total	5855.28	194.93	96.89	2.69	746.01	2539.70	138.37	16.08	6.71	3.95	9600.63
Africa	257.89	0.25	-	0.25	71.68	282.06	1.80	-	-	0.03	613.95
N.OECD Amer.	31.72	2.73	8.81	0.05	162.12	231.74	58.39	-	-	0.67	496.22
Asia (excl. China)	1247.26	56.27	6.47	-	131.01	577.41	32.25	-	6.48	2.32	2059.48
China (Region)	4070.23	..	75.39	-	9.75	123.68	44.44	12.96	-	0.10	4336.53
N.OECD E.& Eurasia	248.18	135.68	5.69	2.40	20.27	711.85	1.50	3.13	0.23	0.78	1129.71
Middle East	-	-	0.53	-	351.19	612.97	-	-	-	0.05	964.74
Algeria	-	-	-	-	1.16	62.83	-	-	-	-	63.99
Angola	-	-	-	-	4.44	-	-	-	-	-	4.44
Benin	-	-	-	-	0.18	-	0.00	-	-	-	0.18
Botswana	2.26	-	-	-	0.10	-	-	-	-	-	2.36
Cameroon	-	-	-	-	0.89	0.90	0.07	-	-	-	1.85
Congo	-	-	-	-	-	0.79	-	-	-	-	0.79
DR of Congo	-	-	-	-	0.00	0.01	-	-	-	-	0.01
Côte d'Ivoire	-	-	-	-	0.51	5.80	0.07	-	-	-	6.37
Egypt	-	-	-	-	21.03	135.18	-	-	-	-	156.21
Eritrea	-	-	-	-	0.37	-	-	-	-	-	0.37
Ethiopia	-	-	-	-	0.01	-	-	-	-	-	0.01
Gabon	-	-	-	-	0.64	0.92	0.01	-	-	-	1.57
Ghana	-	-	-	-	2.21	2.36	-	-	-	-	4.57
Kenya	-	-	-	-	1.71	-	0.14	-	-	-	1.85
Libya	-	-	-	-	17.47	20.26	-	-	-	-	37.73
Mauritius	1.26	-	-	-	1.08	-	0.46	-	-	0.02	2.82
Morocco	15.82	-	-	-	3.77	5.60	-	-	-	-	25.19
Mozambique	-	-	-	-	-	1.57	-	-	-	-	1.57
Namibia	-	-	-	-	0.01	-	-	-	-	-	0.01
Niger*	-	0.25	-	0.25	0.19	-	-	-	-	-	0.69
Nigeria	-	-	-	-	-	25.04	-	-	-	-	25.04
Senegal	-	-	-	-	3.12	0.16	0.06	-	-	-	3.34
South Africa	232.02	-	-	-	0.19	-	0.30	-	-	-	232.51
South Sudan*	-	-	-	-	0.49	-	-	-	-	-	0.49
Sudan*	-	-	-	-	2.46	-	-	-	-	-	2.46
UR of Tanzania	-	-	-	-	0.96	2.63	0.02	-	-	-	3.61
Togo	-	-	-	-	0.02	-	0.01	-	-	-	0.02
Tunisia	-	-	-	-	0.33	17.92	-	-	-	-	18.25
Zambia	-	-	-	-	0.41	-	-	-	-	-	0.41
Zimbabwe	4.40	-	-	-	0.05	-	0.14	-	-	-	4.59
Other Africa	2.13	-	-	-	7.87	0.12	0.51	-	-	0.01	10.64
Argentina	3.59	-	0.45	-	19.54	67.38	2.78	-	-	-	93.74
Bolivia	-	-	-	-	0.18	6.13	0.19	-	-	-	6.49

Source: IEA/OECD *World Energy Statistics*.

*Please refer to Geographical Coverage.

Table 1.3. World gross electricity production from combustible fuels, 2014 (TWh) (continued)

	Coal				Oil	Natural Gas	Solid biofuels	Indust. waste	Municip. waste	Biogases liq. biof.	Tot. Comb. Fuels
	Steam	Lignite	Gases	Other							
Brazil	15.66	2.73	8.32	0.05	35.42	81.08	45.43	-	-	0.56	189.25
Colombia	7.10	-	0.03	-	0.17	10.71	2.14	-	-	-	20.15
Costa Rica	-	-	-	-	1.04	-	0.18	-	-	-	1.22
Cuba	-	-	-	-	15.79	2.79	0.64	-	-	-	19.23
Dominican Rep.	2.48	-	-	-	9.64	3.99	0.03	-	-	-	16.14
Ecuador	-	-	-	-	9.11	3.24	0.40	-	-	-	12.75
El Salvador	-	-	-	-	2.51	-	0.41	-	-	0.03	2.95
Guatemala	1.86	-	-	-	1.51	-	2.26	-	-	-	5.62
Haiti	-	-	-	-	0.94	-	-	-	-	-	0.94
Honduras	0.04	-	-	-	4.47	-	0.52	-	-	-	5.04
Jamaica	-	-	-	-	3.72	-	0.15	-	-	-	3.87
N. Antil./Curaçao*	-	-	-	-	0.86	-	-	-	-	-	0.86
Nicaragua	-	-	-	-	2.05	-	0.49	-	-	-	2.54
Panama	0.69	-	-	-	3.42	-	0.03	-	-	-	4.14
Paraguay	-	-	-	-	0.01	-	-	-	-	-	0.01
Peru	0.31	-	-	-	0.56	20.89	1.21	-	-	0.08	23.06
Suriname	-	-	-	-	0.82	-	-	-	-	-	0.82
Trinidad and T.	-	-	-	-	0.02	9.87	-	-	-	-	9.89
Uruguay	-	-	-	-	1.18	0.00	1.45	-	-	-	2.63
Venezuela	-	-	-	-	17.91	22.63	-	-	-	-	40.54
Other N.OECD Amer.	-	-	-	-	31.25	3.03	0.08	-	-	-	34.36
Bangladesh	1.10	-	-	-	8.21	45.80	-	-	-	-	55.11
Brunei Darussalam	-	-	-	-	0.04	4.46	-	-	-	-	4.50
Cambodia	0.86	-	-	-	0.33	-	0.01	-	-	-	1.20
India	849.48	35.50	1.67	-	22.70	62.93	22.93	-	1.54	0.97	997.72
Indonesia	120.33	-	-	-	25.78	56.29	0.21	-	0.03	0.72	203.36
DPR of Korea	4.32	-	-	-	0.59	-	-	-	-	-	4.91
Malaysia	55.83	-	-	-	3.49	73.84	0.65	-	-	0.05	133.85
Mongolia	1.54	3.43	-	-	0.24	-	-	-	-	-	5.21
Myanmar	0.29	-	-	-	0.07	4.98	-	-	-	-	5.33
Nepal	-	-	-	-	0.00	-	-	-	-	-	0.00
Pakistan	0.16	-	-	-	41.78	26.45	-	-	-	-	68.39
Philippines	33.05	-	-	-	5.71	18.69	0.13	-	0.07	-	57.65
Singapore	0.54	-	-	-	0.35	47.04	0.16	-	1.26	-	49.34
Sri Lanka	3.20	-	-	-	4.37	-	0.04	-	-	-	7.62
Chinese Taipei	120.61	-	4.81	-	8.57	70.48	0.39	-	3.27	0.02	208.15
Thailand	20.23	17.35	-	-	1.72	118.56	7.67	-	0.32	0.55	166.40
Viet Nam	34.56	-	-	-	0.45	47.21	0.06	-	-	-	82.28
Other Asia	1.15	-	-	-	6.63	0.68	-	-	-	-	8.46

Source: IEA/OECD *World Energy Statistics*.

*Please refer to Geographical Coverage.

Table 1.3. World gross electricity production from combustible fuels, 2014 (TWh) (continued)

	Coal				Oil	Natural Gas	Solid biofuels	Indust. waste	Municip. waste	Biogases liq. biof.	Tot. Comb. Fuels
	Steam	Lignite	Gases	Other							
PR of China	4039.82	..	75.39	-	9.52	114.51	44.44	12.96	-	-	4296.63
Hong Kong, China	30.40	-	-	-	0.23	9.17	-	-	-	0.10	39.90
Albania	-	-	-	-	-	-	-	-	-	-	-
Armenia	-	-	-	-	-	3.29	-	-	-	-	3.29
Azerbaijan	-	-	-	-	0.04	23.21	-	-	0.17	-	23.42
Belarus	-	-	-	0.03	0.38	34.04	0.08	0.04	-	0.03	34.60
Bosnia and H.	5.92	4.23	-	-	0.04	0.03	-	-	-	-	10.23
Bulgaria	2.32	17.84	-	1.15	0.21	2.14	0.14	-	-	0.06	23.86
Croatia	2.35	0.02	-	-	0.13	1.00	0.05	-	-	0.12	3.66
Cyprus*	-	-	-	-	4.03	-	-	-	-	0.05	4.08
F.Y.R. Macedonia	-	3.74	-	-	0.15	0.20	-	-	-	-	4.08
Georgia	-	-	-	-	-	2.04	-	-	-	-	2.04
Gibraltar	-	-	-	-	0.20	-	-	-	-	-	0.20
Kazakhstan	75.54	0.03	-	-	1.02	20.17	-	-	-	-	96.77
Kosovo	-	5.27	-	-	0.02	-	-	-	-	-	5.29
Kyrgyzstan	0.75	0.33	-	-	0.08	0.12	-	-	-	-	1.27
Latvia	-	-	-	-	-	2.34	0.32	-	-	0.35	3.01
Lithuania	-	-	-	0.00	0.16	1.75	0.29	0.02	0.06	0.08	2.35
Malta	-	-	-	-	2.17	-	-	-	-	0.01	2.18
Rep. of Moldova	-	-	-	-	0.01	5.01	-	-	-	0.01	5.03
Montenegro	-	1.42	-	-	-	-	-	-	-	-	1.42
Romania	0.28	17.48	0.05	-	0.49	8.10	0.45	-	-	0.05	26.90
Russian Federation	91.49	60.95	4.65	1.20	10.70	533.49	0.03	3.07	-	-	705.60
Serbia	-	22.11	0.04	0.02	0.01	0.24	0.00	0.00	-	0.02	22.44
Tajikistan	-	-	-	-	-	0.47	-	-	-	-	0.47
Turkmenistan	-	-	-	-	-	20.40	-	-	-	-	20.40
Ukraine	69.54	-	0.95	0.00	0.22	12.71	0.13	-	-	-	83.55
Uzbekistan	-	2.26	-	-	0.20	41.11	-	-	-	-	43.57
Bahrain	-	-	-	-	0.01	27.25	-	-	-	-	27.25
IR of Iran	-	-	0.53	-	59.49	195.85	-	-	-	0.05	255.92
Iraq	-	-	-	-	49.96	14.87	-	-	-	-	64.84
Jordan	-	-	-	-	16.86	1.30	-	-	-	0.01	18.16
Kuwait	-	-	-	-	43.16	21.98	-	-	-	-	65.14
Lebanon	-	-	-	-	17.76	-	-	-	-	-	17.76
Oman	-	-	-	-	0.76	28.37	-	-	-	-	29.13
Qatar	-	-	-	-	-	38.69	-	-	-	-	38.69
Saudi Arabia	-	-	-	-	152.29	159.52	-	-	-	-	311.81
Syrian Arab R.	-	-	-	-	4.74	13.98	-	-	-	-	18.73
UAE	-	-	-	-	1.47	108.21	-	-	-	-	109.68
Yemen	-	-	-	-	4.70	2.95	-	-	-	-	7.65

Source: IEA/OECD *World Energy Statistics*.

*Please refer to Geographical Coverage.

Table 1.4. World gross heat production¹ from combustible fuels, 2014 (PJ)

	Coal				Oil	Natural Gas	Solid biofuels	Indust. waste	Municip. waste	Biogases liq. biof.	Tot. Comb. Fuels
	Steam	Lignite	Gases	Other							
World	4626.27	476.35	501.00	55.11	641.36	6071.39	490.21	149.54	250.19	33.93	13295.36
OECD Total	549.85	108.38	36.15	38.55	155.78	1253.72	393.61	28.54	249.55	32.52	2846.65
OECD Americas	39.18	-	0.02	-	25.47	349.91	29.99	4.94	13.65	3.13	466.29
OECD Asia Oceania	66.91	-	0.59	-	29.78	85.29	6.81	10.76	16.78	0.58	217.49
OECD Europe	443.75	108.38	35.54	38.55	100.54	818.52	356.82	12.84	219.12	28.81	2162.87
Australia	-	-	-	-	-	-	-	-	-	-	-
Austria	3.02	-	0.35	-	3.92	30.76	33.21	2.69	5.13	0.22	79.30
Belgium	-	-	-	-	0.23	22.27	0.98	0.64	2.58	0.42	27.12
Canada	-	-	0.02	-	0.03	32.48	-	-	3.02	2.14	37.68
Chile	-	-	-	-	-	-	..	-	-
Czech Republic	20.66	53.23	6.03	0.06	0.34	30.33	5.82	0.31	2.62	0.57	119.95
Denmark	24.65	-	-	-	1.15	23.47	41.42	-	25.32	2.40	118.41
Estonia	0.02	-	1.93	3.79	0.43	7.07	7.62	-	0.89	0.06	21.81
Finland	30.44	-	2.23	25.82	6.23	30.16	69.24	0.45	8.84	0.66	174.08
France	9.31	-	-	-	9.16	49.85	25.77	0.21	22.57	0.89	117.78
Germany	99.42	32.79	0.79	4.80	3.82	186.31	22.50	6.29	59.22	6.72	422.65
Greece	-	2.06	-	-	0.01	-	-	-	-	-	2.07
Hungary	0.97	0.40	3.20	-	0.18	30.74	3.22	0.15	0.74	0.08	39.67
Iceland	-	-	-	-	-	-	-	-	-	-	-
Ireland	-	-	-	-	-	-	-	-	-	-	-
Israel*	-	-	-	-	-	-	-	-	-	-	-
Italy	1.53	-	2.53	-	34.09	123.63	24.82	0.06	7.14	11.39	205.19
Japan	-	-	-	-	0.08	13.62	-	-	-	-	13.70
Korea	66.91	-	0.59	-	29.70	71.67	6.81	10.76	16.78	0.58	203.79
Luxembourg	-	-	-	-	0.01	3.06	0.44	-	-	0.08	3.59
Mexico	-	-	-	-	-	-	-	-	-	-	-
Netherlands	3.12	-	0.24	-	21.38	103.27	1.05	-	18.05	0.05	147.16
New Zealand	-	-	-	-	-	-	-	-	-	-	-
Norway	0.24	-	0.01	-	0.44	0.45	3.14	-	12.89	0.26	17.42
Poland	225.42	5.34	8.50	0.01	3.30	16.52	13.96	0.16	0.19	0.30	273.70
Portugal	-	-	-	-	0.30	21.07	-	-	-	-	21.37
Slovak Republic	3.34	3.82	0.13	0.18	3.94	16.29	4.75	0.04	0.01	0.33	32.83
Slovenia	3.27	1.10	-	-	0.22	2.26	0.81	0.13	-	0.37	8.16
Spain	-	-	-	-	-	-	-	-	-	-	-
Sweden	5.10	-	5.00	3.88	3.02	5.23	95.37	0.57	40.21	2.52	160.89
Switzerland	-	-	-	-	0.49	3.12	1.69	1.05	10.97	-	17.31
Turkey	4.97	9.64	3.32	-	6.01	57.98	0.87	0.10	-	1.52	84.40
United Kingdom	8.27	-	1.30	-	1.87	54.69	0.15	-	1.76	-	68.02
United States	39.18	-	-	-	25.44	317.43	29.99	4.94	10.63	0.99	428.61

Source: IEA/OECD *World Energy Statistics*.

*Please refer to Geographical Coverage.

Table 1.4. World gross heat production¹ from combustible fuels, 2014 (PJ) (continued)

	Coal				Oil	Natural Gas	Solid biofuels	Indust. waste	Municip. waste	Biogases liq. biof.	Tot. Comb. Fuels
	Steam	Lignite	Gases	Other							
Non-OECD Total	4076.43	367.97	464.85	16.56	485.58	4817.67	96.60	121.00	0.65	1.41	10448.71
<i>Africa</i>											
<i>N.OECD Amer.</i>	-	-	-	-	-	-	-	-	-	-	-
<i>Asia (excl. China)</i>	16.60	25.34	-	-	0.06	-	-	-	-	-	42.00
<i>China (Region)</i>	3020.29	..	367.95	-	178.13	166.68	11.47	38.65	-	-	3783.16
<i>N.OECD E. & Eurasia</i>	1039.53	342.63	96.90	16.56	307.38	4651.00	85.13	82.36	0.65	1.41	6623.54
<i>Middle East</i>											
Algeria	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-
Benin	-	-	-	-	-	-	-	-	-	-	-
Botswana	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-
Congo	-	-	-	-	-	-	-	-	-	-	-
DR of Congo	-	-	-	-	-	-	-	-	-	-	-
Côte d'Ivoire	-	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-	-
Eritrea	-	-	-	-	-	-	-	-	-	-	-
Ethiopia	-	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-	-
Ghana	-	-	-	-	-	-	-	-	-	-	-
Kenya	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Mauritius	-	-	-	-	-	-	-	-	-	-	-
Morocco	-	-	-	-	-	-	-	-	-	-	-
Mozambique	-	-	-	-	-	-	-	-	-	-	-
Namibia	-	-	-	-	-	-	-	-	-	-	-
Niger*	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-
Senegal	-	-	-	-	-	-	-	-	-	-	-
South Africa	-	-	-	-	-	-	-	-	-	-	-
South Sudan*	-	-	-	-	-	-	-	-	-	-	-
Sudan*	-	-	-	-	-	-	-	-	-	-	-
UR of Tanzania	-	-	-	-	-	-	-	-	-	-	-
Togo	-	-	-	-	-	-	-	-	-	-	-
Tunisia	-	-	-	-	-	-	-	-	-	-	-
Zambia	-	-	-	-	-	-	-	-	-	-	-
Zimbabwe	-	-	-	-	-	-	-	-	-	-	-
Other Africa	-	-	-	-	-	-	-	-	-	-	-
Argentina	-	-	-	-	-	-	-	-	-	-	-
Bolivia	-	-	-	-	-	-	-	-	-	-	-

Source: IEA/OECD *World Energy Statistics*.

*Please refer to Geographical Coverage.

Table 1.4. World gross heat production¹ from combustible fuels, 2014 (PJ) (continued)

	Coal				Oil	Natural Gas	Solid biofuels	Indust. waste	Municip. waste	Biogases liq. biof.	Tot. Comb. Fuels
	Steam	Lignite	Gases	Other							
Brazil	-	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-	-	-
Costa Rica	-	-	-	-	-	-	-	-	-	-	-
Cuba	-	-	-	-	-	-	-	-	-	-	-
Dominican Rep.	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-
El Salvador	-	-	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-	-
Haiti	-	-	-	-	-	-	-	-	-	-	-
Honduras	-	-	-	-	-	-	-	-	-	-	-
Jamaica	-	-	-	-	-	-	-	-	-	-	-
N. Antil./Curaçao*	-	-	-	-	-	-	-	-	-	-	-
Nicaragua	-	-	-	-	-	-	-	-	-	-	-
Panama	-	-	-	-	-	-	-	-	-	-	-
Paraguay	-	-	-	-	-	-	-	-	-	-	-
Peru	-	-	-	-	-	-	-	-	-	-	-
Suriname	-	-	-	-	-	-	-	-	-	-	-
Trinidad and T.	-	-	-	-	-	-	-	-	-	-	-
Uruguay	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-
Other N.OECD Amer.	-	-	-	-	-	-	-	-	-	-	-
Bangladesh	-	-	-	-	-	-	-	-	-	-	-
Brunei Darussalam	-	-	-	-	-	-	-	-	-	-	-
Cambodia	-	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-	-
DPR of Korea	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-	-
Mongolia	16.60	25.34	-	-	0.06	-	-	-	-	-	42.00
Myanmar	-	-	-	-	-	-	-	-	-	-	-
Nepal	-	-	-	-	-	-	-	-	-	-	-
Pakistan	-	-	-	-	-	-	-	-	-	-	-
Philippines	-	-	-	-	-	-	-	-	-	-	-
Singapore	-	-	-	-	-	-	-	-	-	-	-
Sri Lanka	-	-	-	-	-	-	-	-	-	-	-
Chinese Taipei	-	-	-	-	-	-	-	-	-	-	-
Thailand	-	-	-	-	-	-	-	-	-	-	-
Viet Nam	-	-	-	-	-	-	-	-	-	-	-
Other Asia	-	-	-	-	-	-	-	-	-	-	-

Source: IEA/OECD *World Energy Statistics*.

*Please refer to Geographical Coverage.

Table 1.4. World gross heat production¹ from combustible fuels, 2014 (PJ) (continued)

	Coal				Oil	Natural Gas	Solid biofuels	Indust. waste	Municip. waste	Biogases liq. biof.	Tot. Comb. Fuels
	Steam	Lignite	Gases	Other							
PR of China	3020.29	..	367.95	-	178.13	166.68	11.47	38.65	-	-	3783.16
Hong Kong, China	-	-	-	-	-	-	-	-	-	-	-
Albania	-	-	-	-	-	-	-	-	-	-	-
Armenia	-	-	-	-	-	-	-	-	-	-	-
Azerbaijan	-	-	-	-	0.01	6.76	-	-	-	-	6.78
Belarus	0.06	-	-	3.19	5.41	225.92	19.71	0.54	-	0.11	254.93
Bosnia and H.	2.47	0.29	-	-	0.90	1.24	0.10	-	-	-	5.00
Bulgaria	13.53	3.80	-	5.56	5.73	22.94	0.31	-	-	0.06	51.93
Croatia	-	-	-	-	0.81	8.94	0.25	-	-	0.13	10.13
Cyprus*	-	-	-	-	-	-	-	-	-	0.05	0.05
F.Y.R. Macedonia	-	0.03	-	-	-	1.93	-	-	-	-	1.96
Georgia	-	-	-	-	-	-	-	-	-	-	-
Gibraltar	-	-	-	-	-	-	-	-	-	-	-
Kazakhstan	391.86	0.44	-	-	6.49	-	-	-	-	-	398.80
Kosovo	-	-	-	-	0.25	-	-	-	-	-	0.25
Kyrgyzstan	8.07	3.79	-	-	0.64	1.36	-	-	-	-	13.86
Latvia	0.15	-	-	-	0.04	17.04	7.75	-	-	0.76	25.74
Lithuania	0.05	-	-	0.12	0.89	15.61	14.88	0.16	0.61	0.09	32.42
Malta	-	-	-	-	-	-	-	-	-	0.00	0.00
Rep. of Moldova	0.05	-	-	-	0.45	9.66	0.25	-	-	0.05	10.47
Montenegro	-	-	-	-	-	-	-	-	-	-	-
Romania	2.27	22.33	0.10	-	5.09	45.04	2.70	0.02	0.04	0.16	77.76
Russian Federation	578.35	301.74	60.44	6.57	272.70	3857.15	28.65	81.62	-	-	5187.22
Serbia	-	5.16	0.95	0.30	3.55	20.59	0.13	0.01	-	-	30.69
Tajikistan	-	-	-	-	-	1.06	-	-	-	-	1.06
Turkmenistan	-	-	-	-	-	9.85	-	-	-	-	9.85
Ukraine	42.68	0.02	35.40	0.82	3.96	312.80	10.40	-	-	-	406.08
Uzbekistan	-	5.03	-	-	0.45	93.11	-	-	-	-	98.58
Bahrain	-	-	-	-	-	-	-	-	-	-	-
IR of Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Jordan	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Lebanon	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-
Syrian Arab R.	-	-	-	-	-	-	-	-	-	-	-
UAE	-	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-	-

Source: IEA/OECD *World Energy Statistics*.

*Please refer to Geographical Coverage.

Table 1.5. World fuel use for electricity and heat production¹, 2014 (PJ)

	Coal				Oil	Natural Gas	Solid biofuels	Indust. waste	Municip. waste	Biogases liq. biof.	Total
	Steam	Lignite	Gases	Other							
World	89760.14	7199.63	2619.46	257.75	11451.47	48468.06	4325.42	520.04	1209.32	809.11	166620.38
OECD Total	27522.87	4789.66	964.38	216.96	2627.69	19921.71	2161.12	133.50	1093.32	758.34	60189.56
OECD Americas	16716.83	1029.56	47.01	-	872.89	10600.46	737.44	39.43	281.40	183.73	30508.74
OECD Asia Ocea	5919.22	591.78	510.24	2.11	1137.11	4841.48	292.10	35.07	67.21	29.34	13425.66
OECD Europe	4886.82	3168.32	407.13	214.85	617.69	4479.77	1131.59	59.01	744.71	545.27	16255.15
Australia	968.88	591.61	-	0.86	46.34	477.70	16.71	-	-	14.00	2116.11
Austria	25.92	-	18.65	-	8.87	61.55	65.93	6.19	18.09	10.38	215.58
Belgium	20.36	-	18.51	-	1.55	133.49	23.52	6.12	28.62	5.77	237.95
Canada	528.03	97.77	0.30	-	74.11	549.87	40.06	-	7.15	13.89	1311.18
Chile	236.46	-	-	-	40.64	73.11	141.21	-	-	2.24	493.66
Czech Republic	70.84	408.12	31.10	0.08	0.80	43.38	23.76	0.53	4.25	19.69	602.54
Denmark	102.21	-	-	-	5.06	35.48	58.27	-	36.48	5.32	242.82
Estonia	0.08	-	5.53	117.50	1.00	8.60	13.21	-	1.45	0.19	147.57
Finland	84.17	-	8.44	49.73	8.76	56.06	136.51	1.11	14.76	3.20	362.73
France	94.57	-	28.87	-	30.44	126.48	57.34	2.92	87.74	14.12	442.48
Germany	1051.10	1452.31	91.94	18.53	57.01	585.79	149.55	25.43	223.80	234.82	3890.28
Greece	-	262.58	-	-	58.70	53.63	-	0.87	-	2.96	378.73
Hungary	1.64	62.98	5.70	-	0.95	58.50	23.08	0.40	4.10	2.12	159.47
Iceland	-	-	-	-	0.04	-	-	-	-	-	0.04
Ireland	39.45	-	-	23.00	2.46	82.43	2.44	-	2.10	1.85	153.71
Israel*	273.50	-	-	1.19	2.82 e	237.30 e	-	-	-	0.64 e	515.45
Italy	406.56	-	33.52	-	175.63	746.40	85.85	1.15	71.88	115.76	1636.76
Japan	2578.70	-	320.08	0.06	933.99	3230.35	261.31	20.74	40.95 e	-	7386.18
Korea	2085.45	-	182.86	-	153.96	843.13	10.12	14.33	26.25	12.05	3328.17
Luxembourg	-	-	-	-	-	12.56	0.65	-	1.15	0.38	14.74
Mexico	342.55 e	-	5.06	-	364.12	1336.23	71.28	0.86	-	1.94	2122.04
Netherlands	255.16	-	26.45	-	46.58	390.29	22.08	-	70.84	6.17	817.56
New Zealand	12.69	0.17	7.29	-	-	53.00	3.96	-	-	2.65	79.76
Norway	0.71	-	0.62	-	0.65	14.96	5.16	0.10	17.79	0.51	40.50
Poland	915.43	513.49	36.79	0.03	13.74	52.01	96.99	0.47	0.36	5.73	1635.05
Portugal	111.66	-	-	-	11.19	65.34	24.57	0.09	6.84	3.11	222.82
Slovak Republic	13.31	26.14	2.91	0.45	7.13	26.79	16.06	0.15	0.78	3.86	97.58
Slovenia	6.65	35.26	-	-	0.59	4.21	1.75	0.32	-	1.24	50.02
Spain	416.17	-	14.52	-	130.13	291.39	48.10	..	17.10	8.74	926.15
Sweden	7.73	-	7.72	5.54	4.71	7.26	156.47	1.36	59.85	3.27	253.92
Switzerland	-	-	-	-	0.86	5.95	6.04	1.97	41.29	1.90	58.00
Turkey	333.30	407.44	36.27	-	26.95	825.37	1.56	1.40	-	9.74	1642.03
United Kingdom	929.80	-	39.59	-	23.88	791.86	112.69	8.42	35.44	84.44	2026.12
United States	15609.79	931.79	41.66	-	394.01 e	8641.25	484.88	38.57	274.25	165.66	26581.86

Source: IEA/OECD *World Energy Balances*.

1. Covers use in electricity, CHP and heat plants. Heat produced by industry for own use is not included.

*Please refer to Geographical Coverage.

Table 1.5. World fuel use for electricity and heat production¹, 2014 (PJ) (continued)

	Coal				Oil	Natural Gas	Solid biofuels	Indust. waste	Municip. waste	Biogases liq. biof.	Total
	Steam	Lignite	Gases	Other							
Non-OECD Total	62237.27	2409.97	1655.08	40.79	8823.78	28546.35	2164.30	386.54	116.00	50.77	106430.82
Africa	2978.29	3.15	-	-	760.78	2299.08	40.66	-	-	0.36	6082.34
N.OECD Amer.	315.10	35.79	79.18	0.43	1450.64	2121.92	584.61	-	-	9.12	4596.76
Asia (excl. China)	13151.79	630.66	68.11	-	1413.84	4883.63	755.71	-	112.35	33.15	21049.21
China (Region)	42484.87	..	1313.49	-	310.04	1132.92	659.08	234.88	-	1.16	46136.44
N.OECD E.& Eur:	3307.22	1740.37	186.69	40.36	579.41	11923.44	124.24	151.66	3.65	6.36	18063.42
Middle East	-	-	7.61	-	4309.07	6185.36	-	-	-	0.62	10502.65
Algeria	-	-	-	-	15.81	560.87	-	-	-	-	576.68
Angola	-	-	-	-	46.32	-	-	-	-	-	46.32
Benin	-	-	-	-	1.73	-	0.03	-	-	-	1.76
Botswana	38.54	-	-	-	1.43	-	-	-	-	-	39.97
Cameroon	-	-	-	-	9.75	8.61	0.68	-	-	-	19.04
Congo	-	-	-	-	-	8.25	-	-	-	-	8.25
DR of Congo	-	-	-	-	0.04	0.07	2.78	-	-	-	2.90
Côte d'Ivoire	-	-	-	-	6.24	58.49	1.48	-	-	-	66.21
Egypt	-	-	-	-	229.45	974.17	-	-	-	-	1203.62
Eritrea	-	-	-	-	4.17	-	-	-	-	-	4.17
Ethiopia	-	-	-	-	0.13	-	-	-	-	-	0.13
Gabon	-	-	-	-	6.62	10.68	0.30	-	-	-	17.60
Ghana	-	-	-	-	26.56	21.40	-	-	-	-	47.96
Kenya	-	-	-	-	20.60	-	1.63	-	-	-	22.23
Libya	-	-	-	-	186.63	194.76	-	-	-	-	381.39
Mauritius	18.35	-	-	-	8.97	-	6.90	-	-	0.26	34.48
Morocco	168.32	-	-	-	29.28	38.59	-	-	-	-	236.19
Mozambique	-	-	-	-	-	13.08	-	-	-	-	13.08
Namibia	-	-	-	-	0.18	-	-	-	-	-	0.18
Niger*	-	3.15	-	-	1.99	-	-	-	-	-	5.15
Nigeria	-	-	-	-	-	225.38	-	-	-	-	225.38
Senegal	-	-	-	-	28.91	1.43	1.44	-	-	-	31.78
South Africa	2660.81	-	-	-	1.93	-	4.36	-	-	-	2667.10
South Sudan*	-	-	-	-	5.63	-	-	-	-	-	5.63
Sudan*	-	-	-	-	26.47	-	-	-	-	-	26.47
UR of Tanzania	-	-	-	-	12.84	25.76	0.40	-	-	-	38.99
Togo	-	-	-	-	0.26	-	0.08	-	-	-	0.34
Tunisia	-	-	-	-	3.49	156.51	-	-	-	-	160.00
Zambia	-	-	-	-	3.45	-	-	-	-	-	3.45
Zimbabwe	70.34	-	-	-	0.74	-	2.07	-	-	-	73.15
Other Africa	21.93	-	-	-	81.16	1.03	18.51	-	-	0.10	122.74
Argentina	35.24	-	5.97	-	191.16	648.43	39.79	-	-	1.73	922.32
Bolivia	-	-	-	-	2.25	61.57	4.50	-	-	-	68.32

Source: IEA/OECD *World Energy Balances*.

1. Covers use in electricity, CHP and heat plants. Heat produced by industry for own use is not included.

*Please refer to Geographical Coverage.

Table 1.5. World fuel use for electricity and heat production¹, 2014 (PJ) (continued)

	Coal				Oil	Natural Gas	Solid biofuels	Indust. waste	Municip. waste	Biogases liq. biof.	Total
	Steam	Lignite	Gases	Other							
Brazil	147.22	35.79	72.81	0.43	319.26	665.86	343.96	-	-	5.90	1591.21
Colombia	71.04	-	0.40	-	1.98	107.06	22.54	-	-	-	203.02
Costa Rica	-	-	-	-	9.72	-	2.12	-	-	-	11.84
Cuba	-	-	-	-	180.51	25.14	12.47	-	-	-	218.12
Dominican Rep.	25.47	-	-	-	77.64	32.34	0.96	-	-	-	136.40
Ecuador	-	-	-	-	95.50	23.60	10.15	-	-	-	129.26
El Salvador	-	-	-	-	21.27	-	7.64	-	-	0.41	29.32
Guatemala	18.58	-	-	-	19.77	-	79.59	-	-	-	117.94
Haiti	-	-	-	-	10.69	-	-	-	-	-	10.69
Honduras	0.41	-	-	-	46.13	-	7.53	-	-	-	54.07
Jamaica	-	-	-	-	33.14	-	2.95	-	-	-	36.09
N. Antil./Curaçao ^a	-	-	-	-	7.92	-	-	-	-	-	7.92
Nicaragua	-	-	-	-	19.03	-	18.70	-	-	-	37.74
Panama	8.70	-	-	-	32.12	-	2.84	-	-	-	43.65
Paraguay	-	-	-	-	0.04	-	-	-	-	-	0.04
Peru	8.44	-	-	-	12.49	175.57	17.43	-	-	1.08	215.01
Suriname	-	-	-	-	10.59	-	-	-	-	-	10.59
Trinidad and T.	-	-	-	-	0.22	109.01	-	-	-	-	109.23
Uruguay	-	-	-	-	7.35	0.03	9.55	-	-	-	16.92
Venezuela	-	-	-	-	232.31	246.05	-	-	-	-	478.36
Other N.OECD A	-	-	-	-	119.55	27.26	1.89	-	-	-	148.70
Bangladesh	11.30	-	-	-	63.70	477.18	-	-	-	-	552.18
Brunei Darussalam	-	-	-	-	0.48	49.63	-	-	-	-	50.10
Cambodia	9.75	-	-	-	3.63	-	0.20	-	-	-	13.58
India	9142.60	376.88	23.99	-	324.90	570.57	550.42	-	27.65	17.53	11034.54
Indonesia	1239.25	-	-	-	266.51	523.86	3.71	-	0.58	6.70	2040.60
DPR of Korea	55.57	-	-	-	10.57	-	-	-	-	-	66.15
Malaysia	571.51	-	-	-	38.37	735.01	9.35	-	-	0.75	1354.98
Mongolia	36.90	77.23	-	-	3.50	-	-	-	-	-	117.62
Myanmar	2.92	-	-	-	0.69	64.65	-	-	-	-	68.26
Nepal	-	-	-	-	1.41	-	-	-	-	-	1.41
Pakistan	4.12	-	-	-	385.62	260.44	-	-	-	-	650.18
Philippines	374.28	-	-	-	57.72	120.15	2.13	-	0.80	0.28	555.35
Singapore	9.60	-	-	-	10.79	337.86	1.86	-	27.06	-	387.17
Sri Lanka	39.98	-	-	-	39.68	-	1.14	-	-	-	80.80
Chinese Taipei	1102.36	-	44.12	-	86.09	480.82	5.88	-	54.36	0.22	1773.85
Thailand	224.25	176.55	-	-	16.88	924.89	180.35	-	1.90	7.56	1532.39
Viet Nam	315.22	-	-	-	6.39	332.41	0.67	-	-	-	654.69
Other Asia	12.18	-	-	-	96.91	6.16	-	-	-	0.11	115.36

Source: IEA/OECD *World Energy Balances*.

1. Covers use in electricity, CHP and heat plants. Heat produced by industry for own use is not included.

*Please refer to Geographical Coverage.

Table 1.5. World fuel use for electricity and heat production¹, 2014 (PJ) (continued)

	Coal				Oil	Natural Gas	Solid biofuels	Indust. waste	Municip. waste	Biogases liq. biof.	Total
	Steam	Lignite	Gases	Other							
PR of China	42194.62	..	1313.49	-	307.52	1060.12	659.08	234.88	-	-	45769.71
Hong Kong, China	290.25	-	-	-	2.52	72.80	-	-	-	1.16	366.73
Albania	-	-	-	-	-	-	-	-	-	-	-
Armenia	-	-	-	-	-	27.66	-	-	-	-	27.66
Azerbaijan	-	-	-	-	0.37	215.73	-	-	2.63	-	218.73
Belarus	0.08	-	-	4.48	9.52	499.64	28.36	0.88	-	0.36	543.31
Bosnia and H.	100.29	46.48	-	-	1.44	1.67	0.13	-	-	-	150.01
Bulgaria	37.20	198.62	-	17.01	8.27	36.89	1.52	-	-	0.41	299.92
Croatia	22.94	0.15	-	-	1.91	16.67	1.19	-	-	0.97	43.84
Cyprus*	-	-	-	-	37.21	-	-	-	-	0.29	37.50
F.Y.R. Macedonia	-	40.87	-	-	1.64	3.23	-	-	-	-	45.74
Georgia	-	-	-	-	-	20.11	-	-	-	-	20.11
Gibraltar	-	-	-	-	1.92	-	-	-	-	-	1.92
Kazakhstan	878.55	0.63	-	-	12.08	209.84	-	-	-	-	1101.11
Kosovo	-	54.61	-	-	0.45	-	-	-	-	-	55.05
Kyrgyzstan	12.81	7.30	-	-	1.04	1.98	-	-	-	-	23.13
Latvia	0.26	-	-	-	-	30.19	12.93	-	-	2.78	46.17
Lithuania	0.08	-	-	0.16	2.03	27.76	18.75	0.26	0.98	0.60	50.62
Malta	-	-	-	-	20.78	-	-	-	-	0.04	20.82
Rep. of Moldova	0.06	-	-	-	0.48	57.39	0.35	-	-	0.18	58.47
Montenegro	-	14.71	-	-	-	-	-	-	-	-	14.71
Romania	6.06	193.15	0.76	-	10.83	101.74	6.68	0.03	0.04	0.60	319.88
Russian Federation	1440.07	909.72	123.76	16.99	454.40	9283.32	32.54	150.46	-	-	12411.27
Serbia	-	232.85	1.84	0.41	4.53	24.15	0.17	0.03	-	0.13	264.12
Tajikistan	-	-	-	-	-	3.25	-	-	-	-	3.25
Turkmenistan	-	-	-	-	-	334.63	-	-	-	-	334.63
Ukraine	808.82	0.02	60.33	1.31	7.91	426.89	21.62	-	-	-	1326.89
Uzbekistan	-	41.26	-	-	2.60	600.70	-	-	-	-	644.56
Bahrain	-	-	-	-	0.12	366.21	-	-	-	-	366.33
IR of Iran	-	-	7.61	-	714.09	1776.96	-	-	-	0.55	2499.21
Iraq	-	-	-	-	944.71	164.90	-	-	-	-	1109.60
Jordan	-	-	-	-	148.52	12.59	-	-	-	0.07	161.18
Kuwait	-	-	-	-	433.21	226.10	-	-	-	-	659.31
Lebanon	-	-	-	-	170.54	-	-	-	-	-	170.54
Oman	-	-	-	-	7.75	274.72	-	-	-	-	282.47
Qatar	-	-	-	-	-	342.89	-	-	-	-	342.89
Saudi Arabia	-	-	-	-	1764.11	1621.42	-	-	-	-	3385.54
Syrian Arab R.	-	-	-	-	52.63	136.04	-	-	-	-	188.67
UAE	-	-	-	-	23.93	1229.80	-	-	-	-	1253.73
Yemen	-	-	-	-	49.46	33.73	-	-	-	-	83.18

Source: IEA/OECD *World Energy Balances*.

1. Covers use in electricity, CHP and heat plants. Heat produced by industry for own use is not included.

*Please refer to Geographical Coverage.

Table 2.0. OECD energy balance, 2014

SUPPLY AND CONSUMPTION	Million tonnes of oil equivalent										
	Coal ¹	Crude oil ²	Oil products	Natural gas	Nuclear	Hydro	Geotherm. / Solar / etc.	Biofuels / Waste	Electricity	Heat	Total
Production	976.17	1092.20	-	1046.09	516.27	120.47	98.02	293.81	-	0.90	4143.93
Imports	405.60	1371.96	562.67	618.98	-	-	-	18.06	41.22	0.01	3018.50
Exports	-361.92	-397.21	-578.73	-306.56	-	-	-	-11.75	-40.83	-0.01	-1697.00
Intl. marine bunkers	-	-	-69.87	-	-	-	-	-0.08	-	-	-69.95
Intl. aviation bunkers	-	-	-91.47	-	-	-	-	-	-	-	-91.47
Stock changes	-7.39	-5.23	-3.21	-14.67	-	-	-	-0.25	-	-	-30.75
TPES	1012.46	2061.71	-180.60	1343.84	516.27	120.47	98.02	299.79	0.40	0.90	5273.27
Transfers	-	-80.77	96.86	-	-	-	-	-	-	-	16.10
Statistical differences	-11.23	3.13	1.02	9.67	-	-	-0.06	0.27	-0.08	-0.47	2.25
Electricity plants	-725.07	-5.87	-44.25	-364.36	-509.18	-120.47	-84.28	-47.28	836.89	-0.50	-1064.37
CHP plants	-73.20	-	-11.45	-103.39	-7.09	-	-2.58	-45.41	90.57	53.18	-99.35
Heat plants	-4.10	-	-1.18	-7.98	-	-	-0.98	-6.33	-0.38	16.84	-4.11
Blast furnaces	-55.74	-	-0.38	-0.16	-	-	-	-	-	-	-56.27
Gas works	-2.08	-	-2.41	3.45	-	-	-	-0.07	-	-	-1.11
Coke/pat. fuel/BKB/PB plants	-7.17	-	-1.30	-0.01	-	-	-	-0.12	-	-	-8.61
Oil refineries	-	-2010.35	1986.83	-	-	-	-	-	-	-	-23.53
Petrochemical plants	-	28.65	-29.00	-	-	-	-	-	-	-	-0.35
Liquefaction plants	-1.04	0.66	-	-	-	-	-	-	-	-	-0.39
Other transformation	-0.20	8.65	-0.00	-8.61	-	-	-	-0.23	-	-0.73	-1.12
Energy industry own use	-18.80	-0.06	-108.11	-133.74	-	-	-0.00	-1.26	-67.38	-7.15	-336.49
Losses	-1.03	-	-0.04	-2.19	-	-	-0.01	-0.02	-58.49	-5.27	-67.04
TFC	112.81	5.75	1705.98	736.53	-	-	10.12	199.33	801.54	56.79	3628.86
INDUSTRY	91.21	0.05	95.31	266.53	-	-	0.55	74.01	256.58	24.26	808.49
Iron and steel	37.65	-	2.89	26.37	-	-	0.11	28.21	0.58	95.81	
Chemical and petrochemical	11.05	0.03	20.82	73.39	-	-	0.00	1.42	36.93	11.55	155.18
Non-ferrous metals	1.96	-	1.61	11.62	-	-	0.00	0.05	23.92	0.21	39.36
Non-metallic minerals	22.00	0.01	14.16	26.69	-	-	0.00	5.68	14.21	0.24	82.99
Transport equipment	0.22	-	0.96	7.85	-	-	0.00	0.05	13.17	0.72	22.96
Machinery	0.37	-	3.54	19.79	-	-	0.00	0.13	33.50	0.73	58.06
Mining and quarrying	0.29	-	10.72	3.89	-	-	0.00	0.12	10.34	0.09	25.44
Food and tobacco	5.71	0.00	4.74	36.99	-	-	0.00	4.27	21.29	1.84	74.84
Paper, pulp and printing	5.45	-	2.81	20.19	-	-	0.20	52.27	21.48	3.12	105.52
Wood and wood products	0.08	-	1.27	2.49	-	-	-	6.73	6.07	0.67	17.31
Construction	0.03	-	17.36	3.19	-	-	0.00	0.31	7.00	0.05	27.94
Textile and leather	0.51	0.01	1.43	4.94	-	-	0.00	0.10	5.98	0.67	13.64
Non-specified	5.88	-	13.01	29.13	-	-	0.34	2.78	34.50	3.81	89.44
TRANSPORT	0.01	-	1126.61	28.61	-	-	0.00	50.95	8.98	-	1215.16
Domestic aviation	-	-	70.20	-	-	-	-	-	-	-	70.20
Road	-	-	1017.46	3.70	-	-	-	50.27	0.23	-	1071.67
Rail	0.01	-	17.81	-	-	-	-	0.24	7.07	-	25.13
Pipeline transport	-	-	0.02	24.74	-	-	-	-	0.45	-	25.20
Domestic navigation	-	-	20.37	0.11	-	-	-	0.43	-	-	20.90
Non-specified	-	-	0.77	0.06	-	-	0.00	0.01	1.22	-	2.06
OTHER	18.22	-	182.93	408.56	-	-	9.58	74.37	535.99	32.54	1262.19
Residential	11.43	-	82.34	254.38	-	-	5.84	63.59	251.13	20.68	689.38
Comm. and public services	5.61	-	52.38	146.99	-	-	2.94	7.46	252.96	11.12	479.47
Agriculture/forestry	1.14	-	41.56	5.80	-	-	0.63	3.26	10.25	0.24	62.90
Fishing	0.00	-	3.22	0.03	-	-	0.07	0.00	0.34	0.01	3.68
Non-specified	0.04	-	3.42	1.36	-	-	0.09	0.06	21.31	0.49	26.76
NON-ENERGY USE	3.37	5.71	301.13	32.83	-	-	-	-	-	-	343.03
in industry/transf./energy	2.97	5.71	293.32	32.83	-	-	-	-	-	-	334.82
of which: chem./petrochem.	1.55	5.71	218.29	32.82	-	-	-	-	-	-	258.37
in transport	-	-	3.82	-	-	-	-	-	-	-	3.82
in other	0.40	-	4.00	-	-	-	-	-	-	-	4.39
Electricity and Heat Output											
Elec. generated - TWh	3477.80	30.98	246.02	2615.12	1980.65	1400.82	703.86	327.73	-	1.47	10784.46
Electricity plants	3196.69	30.98	199.79	2086.46	1953.85	1400.82	695.44	165.78	-	0.52	9730.32
CHP plants	281.12	-	46.23	528.66	26.81	-	8.42	161.95	-	0.95	1054.14
Heat generated - PJ	743.56	-	155.78	1253.72	4.31	-	52.43	704.22	8.38	47.53	2969.93
CHP plants	604.93	-	125.69	980.19	4.31	-	12.46	499.59	0.44	21.78	2249.39
Heat plants	138.63	-	30.09	273.53	-	-	39.97	204.63	7.94	25.76	720.55

1. Includes peat and oil shale.

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

Table 2.1. OECD electricity production, imports, exports, gross supply, 2015p (TWh)

	Gross production¹	Imports	Exports	Gross Supply²
OECD Total	10822.38	509.75	511.12	10821.01
<i>OECD Americas</i>	5325.28	86.77	86.73	5325.32
<i>OECD Asia Oceania</i>	1921.74	-	4.84	1916.89
<i>OECD Europe</i>	3575.36	422.98	419.54	3578.80
Australia	248.69	-	-	248.69
Austria	65.30	29.37	19.31	75.35
Belgium	68.14	23.71	2.72	89.14
Canada	631.57	8.73	68.43	571.87
Chile	74.10	-	-	74.10
Czech Republic	83.89	16.15	28.66	71.37
Denmark	28.73	15.65	9.73	34.64
Estonia	10.42	5.45	6.38	9.49
Finland	68.60	21.46	5.12	84.93
France	568.18	9.98	74.02	504.13
Germany	651.50	37.01	85.29	603.22
Greece	47.96	11.08	1.47	57.57
Hungary	30.19	19.94	6.25	43.88
Iceland	18.80	-	-	18.80
Ireland	28.66	1.75	1.08	29.34
Israel	65.23	-	4.84	60.39
Italy	282.04	50.85	4.47	328.42
Japan	1014.93	-	-	1014.93
Korea	548.69	-	-	548.69
Luxembourg	2.74	7.52	1.92	8.34
Mexico	307.42	2.44	9.16	300.70
Netherlands	110.00	30.76	22.01	118.75
New Zealand	44.20	-	-	44.20
Norway	145.02	7.37	22.02	130.38
Poland	164.83	14.46	14.79	164.50
Portugal	52.16	8.08	5.81	54.42
Slovak Republic	26.31	14.96	12.61	28.66
Slovenia	15.09	9.05	9.09	15.04
Spain	280.48	7.37	22.02	130.38
Sweden	161.44	14.46	14.79	164.50
Switzerland	67.50	34.03	35.07	66.47
Turkey	259.69	7.41	2.97	264.14
United Kingdom	337.70	22.72	1.78	358.64
United States	4312.20	75.60	9.15	4378.66

Source: IEA/OECD *World Energy Statistics*.

1. Gross production refers to total main activity producers and autoproducers production, including production from pumped storage.

2. Apparent consumption = production + imports - exports. Includes "own use by power plant", "used for heat pumps", "electric boilers" and "pumped storage", "transmission losses" and transformation industries for heating, traction and lighting purposes.

Apparent consumption is an estimate based on preliminary data and not verified with the real consumption side of the balance.

Table 2.2. OECD gross electricity production, by source, 2015p (TWh)

	Fossil fuels ¹	Nuclear	Hydro	Geo-thermal	Solar/wind ²	Biofuels & waste ³	Total
OECD Total	6265.45	1973.27	1436.06	50.18	761.35	336.07	10822.38
<i>OECD Americas</i>	3290.91	946.21	706.59	24.88	266.64	90.05	5325.28
<i>OECD Asia Oceania</i>	1486.82	174.20	135.52	10.41	67.34	47.45	1921.74
<i>OECD Europe</i>	1487.72	852.86	593.95	14.89	427.37	198.57	3575.36
Australia	214.59	-	13.86	0.00	16.94	3.30	248.69
Austria	13.76	-	40.56	-	5.80	5.18	65.30
Belgium	25.62	26.10	1.40	-	8.70	6.32	68.14
Canada	112.80	104.28	379.38	-	30.60	4.50	631.57
Chile	43.07	-	23.10	-	2.60	5.33	74.10
Czech Republic	46.91	26.84	2.07	-	2.84	5.24	83.89
Denmark	10.58	-	0.02	-	14.74	3.39	28.73
Estonia	8.79	-	0.03	-	0.72	0.89	10.42
Finland	14.88	23.25	16.76	-	2.60	11.11	68.60
France	33.99	437.43	59.88	-	29.61	7.27	568.18
Germany	348.39	91.79	24.90	0.13	128.57	57.73	651.50
Greece	33.83	-	5.60	-	8.27	0.26	47.96
Hungary	11.02	15.83	0.23	-	0.85	2.26	30.19
Iceland	0.00	-	13.78	5.00	0.01	-	18.80
Ireland	20.46	-	1.10	-	6.57	0.54	28.66
Israel	63.83	-	0.01	-	1.33	0.06	65.23
Italy	167.84	-	45.26	6.18	40.86	21.90	282.04
Japan	828.72	9.44	91.19	2.55	41.26	41.77	1014.93
Korea	370.94	164.76	5.93	-	5.37	1.69	548.69
Luxembourg	0.83	-	1.53	-	0.18	0.19	2.74
Mexico	249.12	11.58	30.84	6.29	8.15	1.44	307.42
Netherlands	90.75	3.86	0.09	-	8.71	6.59	110.00
New Zealand	8.74	-	24.53	7.86	2.45	0.63	44.20
Norway	2.78	-	139.01	-	2.81	0.42	145.02
Poland	141.35	-	2.44	-	11.03	10.02	164.83
Portugal	26.64	-	9.76	0.20	12.42	3.14	52.16
Slovak Republic	4.92	15.15	4.26	-	0.65	1.34	26.31
Slovenia	4.80	5.65	4.09	-	0.28	0.27	15.09
Spain	121.18	57.28	31.16	-	63.21	7.65	280.48
Sweden	3.52	56.25	74.48	-	16.72	10.47	161.44
Switzerland	0.51	23.09	39.88	-	1.29	2.73	67.50
Turkey	175.92	-	66.90	3.37	11.96	1.54	259.69
United Kingdom	178.45	70.35	8.76	-	48.00	32.15	337.70
United States	2885.91	830.35	273.27	18.59	225.30	78.78	4312.20

Source: IEA/OECD *World Energy Statistics*.

1. Includes hard coal, brown coal, peat, coal gases, oil products and natural gas.
2. Includes tide, wave, ocean and other (fuel cells etc).
3. Includes wood/wood waste/other solid waste, industrial and municipal waste, biogases and liquid biofuels.

Note: Including electricity production from pumped storage.

Table 2.3. OECD gross electricity production from combustible fuels, 2015p (TWh)

	Coal				Oil	Natural Gas	Solid biofuels	Indust. waste	Municip. waste	Biogases liq. biof.	Total
	Steam	Lignite	Gases	Other							
OECD Total	2635.89	453.22	99.36	15.43	247.66	2803.02	179.78	9.31	63.52	83.47	6590.65
OECD Americas	1490.05	93.49	4.79	-	81.16	1621.42	57.48	1.77	16.72	14.08	3380.96
OECD Asia Oceania	656.60	51.24	60.06	0.10	113.06	605.76	35.32	2.98	6.95	2.21	1534.27
OECD Europe	489.24	308.50	34.51	15.33	53.44	575.84	86.98	4.56	39.85	67.18	1675.43
Australia	106.75	51.22	-	0.05	4.84	51.73	2.09	-	-	1.20	217.88
Austria	2.99	-	2.10	-	0.87	7.80	3.49	0.35	0.72	0.62	18.94
Belgium	2.18	-	2.04	-	0.11	21.30	3.00	0.40	1.92	1.00	31.94
Canada	46.05	8.38	0.03	-	6.71	51.63	3.47	-	0.22	0.82	117.31
Chile	26.01	-	-	-	4.58	12.48	5.29	-	-	0.04	48.40
Czech Republic	5.29	36.50	2.78	-	0.07	2.26	2.29	0.01	0.16	2.78	52.14
Denmark	6.95	-	-	-	0.26	3.38	1.41	-	1.53	0.45	13.98
Estonia	0.00	-	0.51	8.16	0.06	0.06	0.73	-	0.13	0.03	9.68
Finland	5.78	-	0.43	2.95	0.21	5.52	10.01	0.07	0.68	0.35	25.98
France	9.93	-	2.45	-	1.90	19.72	2.00	0.15	3.30	1.82	41.26
Germany	108.79	152.90	9.52	1.54	5.65	60.77	12.31	1.31	11.82	32.29	396.91
Greece	-	22.11	-	-	5.19	6.54	-	0.08	-	0.18	34.09
Hungary	0.00	5.80	0.09	-	0.05	5.07	1.63	0.05	0.30	0.28	13.28
Iceland	-	-	-	-	0.00	-	-	-	-	-	0.00
Ireland	29.35	-	-	0.04	0.92	33.52	-	-	-	0.06	63.89
Israel	4.93	-	-	2.49	0.27	12.77	0.20	-	0.14	0.20	21.00
Italy	43.57	-	3.15	-	13.51	107.61	3.58	0.08	4.43	13.81	189.74
Japan	305.03	-	37.69	0.00	90.81	395.19	32.58	2.63	6.57	-	870.50
Korea	214.27	-	21.72	-	16.49	118.46	0.27	0.35	0.38	0.70	372.63
Luxembourg	-	-	-	-	..	0.83	0.02	-	0.11	0.06	1.02
Mexico	33.49	-	0.41	-	31.49	183.74	1.17	0.11	-	0.16	250.57
Netherlands	38.07	-	2.91	-	1.28	48.48	1.94	-	3.63	1.02	97.34
New Zealand	1.21	0.02	0.65	-	0.00	6.86	0.38	-	-	0.25	9.37
Norway	0.04	-	0.11	-	0.03	2.60	0.01	0.04	0.36	0.01	3.20
Poland	77.46	52.83	2.39	-	2.12	6.31	9.06	0.03	0.02	0.91	151.12
Portugal	14.75	-	-	-	1.57	10.32	2.25	0.01	0.59	0.29	29.78
Slovak Republic	0.87	1.77	0.45	0.01	0.27	1.55	0.85	0.01	0.03	0.44	6.26
Slovenia	0.35	4.03	-	-	0.02	0.40	0.13	0.01	-	0.14	5.07
Spain	52.93	-	1.66	-	15.29	51.31	3.82	0.89	1.77	1.17	128.83
Sweden	0.53	-	1.30	0.19	0.68	0.83	8.34	0.05	2.06	0.02	13.99
Switzerland	-	-	-	-	0.04	0.47	0.27	0.19	2.00	0.27	3.24
Turkey	37.59	32.56	1.99	-	2.19	100.19	0.03	0.10	-	1.40	176.06
United Kingdom	76.26	-	0.63	-	1.81	99.75	19.63	0.73	4.15	7.63	210.59
United States	1384.51	85.10	4.36	-	38.38	1373.57	47.56	1.66	16.50	13.06	2964.69

Source: IEA/OECD *World Energy Statistics*.

Table 2.4. OECD gross heat production¹ from combustible fuels, 2015p (PJ)

	Coal				Oil	Natural Gas	Solid biofuels	Indust. waste	Municip. waste	Biogases liq. biof.	Total
	Steam	Lignite	Gases	Other							
OECD Total	539.35	110.04	39.24	35.18	149.30	1286.58	394.92	27.88	266.02	36.94	2885.45
OECD Americas	38.40	-	0.45	-	25.19	366.00	25.87	4.79	14.19	3.66	478.54
OECD Asia Oceania	65.32	-	0.60	-	29.40	89.92	7.83	9.89	17.51	0.61	221.09
OECD Europe	435.63	110.04	38.19	35.18	94.71	830.66	361.23	13.19	234.32	32.68	2185.82
Australia	-	-	-	-	..	-	-	-	-	-	..
Austria	3.44	-	0.47	-	4.73	30.42	36.31	2.16	6.15	0.15	83.82
Belgium	-	-	-	-	0.23	22.27	0.98	0.64	2.58	0.42	27.12
Canada	-	-	0.02	-	0.03	32.48	-	-	3.02	2.14	37.68
Chile	-	-	-	-	..	-	-	-	-	-	..
Czech Republic	20.43	53.15	6.10	0.06	0.79	30.19	5.83	0.31	2.64	0.57	120.07
Denmark	22.18	-	-	-	1.11	23.23	44.98	-	28.36	2.45	122.32
Estonia	0.04	-	1.44	2.79	0.63	5.76	9.51	-	0.97	0.07	21.21
Finland	25.32	-	2.15	23.10	6.19	28.50	70.89	0.45	8.70	0.68	165.98
France	9.31	-	-	-	9.16	49.85	25.77	0.21	22.57	0.89	117.78
Germany	102.42	34.37	0.69	5.43	4.15	194.57	25.49	7.53	61.93	9.06	445.63
Greece	-	2.18	-	-	0.01	-	-	-	-	-	2.19
Hungary	0.31	0.70	3.58	-	0.13	33.06	3.87	0.25	0.59	0.10	42.59
Iceland	-	-	-	-	..	-	-	-	-	-	..
Ireland	-	-	-	-	..	-	-	-	-	-	..
Israel	-	-	-	-	..	-	-	-	-	-	..
Italy	1.53	-	2.60	-	32.97	142.09	23.60	0.05	6.67	13.19	222.70
Japan	-	-	-	-	0.37	14.53	-	-	-	-	14.90
Korea	65.32	-	0.60	-	29.03	75.39	7.83	9.89	17.51	0.61	206.19
Luxembourg	-	-	-	-	0.01	1.61	0.48	-	-	0.08	2.17
Mexico	-	-	-	-	..	-	-	-	-	-	..
Netherlands	3.70	-	0.22	-	17.22	97.20	1.30	-	21.25	0.05	140.94
New Zealand	-	-	-	-	..	-	-	-	-	-	..
Norway	0.36	-	0.02	-	0.45	0.36	3.91	-	14.21	0.23	19.55
Poland	221.33	5.78	11.92	0.01	3.55	19.30	13.31	0.20	0.23	0.36	275.98
Portugal	-	-	-	-	0.30	20.67	-	-	-	-	20.96
Slovak Republic	3.27	3.75	0.13	0.17	3.87	15.97	4.66	0.04	0.01	0.32	32.18
Slovenia	3.76	1.19	-	-	0.13	2.04	1.06	0.12	-	0.32	8.62
Spain	-	-	-	-	..	-	-	-	-	-	..
Sweden	4.41	-	2.89	3.61	2.71	3.50	86.40	-	43.74	2.04	149.29
Switzerland	-	-	-	-	0.53	3.40	1.84	1.14	11.96	-	18.87
Turkey	5.53	8.92	4.69	-	4.00	52.00	0.89	0.09	-	1.71	77.83
United Kingdom	8.27	-	1.30	-	1.87	54.69	0.15	-	1.76	-	68.02
United States	38.40	-	0.44	-	25.16	333.52	25.87	4.79	11.17	1.52	440.86

Source: IEA/OECD *World Energy Statistics*.

1. Production in industry for own use is not included.

Table 2.5. OECD electricity generating capacity¹, 1974-2014 (GW)

	Coal ²				Oil ²			
	1974	1990	2000	2014	1974	1990	2000	2014
OECD Total	386.56	592.88 e	619.98 e	568.07	226.49	195.65 e	157.88 e	142.01
<i>OECD Americas</i>	212.02	329.70	328.09 e	321.51	86.62	75.37	47.53	61.60
<i>OECD Asia Oceania</i>	20.69	68.67 e	100.27 e	123.60	66.48	55.63 e	66.42 e	48.08
<i>OECD Europe</i>	153.85	194.51	191.61 e	122.95	73.39	64.65	43.93 e	32.33
Australia	11.65	24.92	28.65	29.61	1.43	1.59	1.93	1.99
Austria	1.60	2.10	2.24	2.02	0.51	0.48	0.51	0.33
Belgium	4.56	4.90	2.47	..	1.25	0.47	0.53	..
Canada	10.91	19.24	..	9.81	4.66	7.15	..	6.87
Chile	-	0.89	1.93	5.37	-	0.42	0.56	3.90
Czech Republic	-	12.11	11.47	13.08	-	-	-	-
Denmark	2.94	7.54	5.60	4.51	3.01	0.85	1.90	1.13
Estonia	2.79	2.48	-	-
Finland	2.85	5.79	7.71	6.11	1.16	0.97	0.99	1.57
France	14.28	14.23	..	5.12	9.71	7.86	..	8.88
Germany	39.94	42.73	51.59	..	9.06	6.05	4.14	..
Greece	1.34	3.89	4.49	4.30	1.22	2.15	1.97	2.49
Hungary	2.33	2.24	2.02	1.22	0.12	0.20	0.58	0.37
Iceland	-	-	-	-	0.11	0.14	0.15	0.11
Ireland	0.50	1.31	1.26	1.21	1.09	0.59	0.84	1.15
Israel	..	2.19 e	4.29 e	4.84	..	2.87 e	4.84 e	..
Italy	9.55	9.03	12.56	10.88	9.52	16.44	14.56	7.64
Japan	8.84	40.47	51.78	55.94	64.80	50.83	51.12	41.16
Korea	-	..	14.44 e	32.56	-	..	8.53 e	4.78
Luxembourg	0.16	0.09	-	-	0.02	0.01	-	-
Mexico	-	1.61	5.11	6.05	1.52	11.79	11.42	9.97
Netherlands	2.20	3.77	4.18 e	..	1.11	0.04	0.02 e	..
New Zealand	0.20	1.09	1.11	0.66	0.24	0.34	-	0.16
Norway	0.01	0.05	0.08	-	0.15	0.14	0.01	0.02
Poland	17.83	25.99	27.80	27.48	-	-	0.35	0.40
Portugal	0.26	1.47	1.99	2.26	0.53	2.57	2.34	0.67
Slovak Republic	1.61	0.14
Slovenia	-	-	1.03	0.82	-	-	0.01	-
Spain	3.90	10.41	11.36	..	6.64	7.65	8.14	..
Sweden	-	1.52	7.39	2.72
Switzerland	-	0.13	0.20	0.26	0.59	0.38	0.11	0.09
Turkey	1.00	5.58	7.40	15.40	1.28	1.75	1.59	0.60
United Kingdom	48.60	41.17	33.37	22.68	18.93	15.92	5.19	4.04
United States	201.11	307.96	321.06 e	300.28	80.45	56.02	35.55	40.86

1. Net maximum electricity generating capacity on 31 December

2. Includes multi-fired units.

Table 2.5. OECD electricity generating capacity¹, 1974-2014 (GW) (continued)

	Natural gas ²				Nuclear			
	1974	1990	2000	2014	1974	1990	2000	2014
OECD Total	142.74	253.86	436.41 e	749.49	52.92	266.79	302.74	302.42
<i>OECD Americas</i>	109.34	173.74	257.55	488.55	34.33	113.86	109.84	114.00
<i>OECD Asia Oceania</i>	4.44	19.86	56.17 e	108.34	3.91	31.65	58.96	64.98
<i>OECD Europe</i>	28.96	60.26	122.69 e	152.59	14.69	121.29	133.94	123.44
Australia	0.82	3.39	6.01 e	18.38	-	-	-	-
Austria	0.90	3.05	3.25	4.89	-	-	-	-
Belgium	1.84	1.79	5.37	..	0.01	5.50	5.71	5.93
Canada	2.52	3.90	..	17.50	2.67	13.54	10.62	14.03
Chile	-	0.02	2.44	6.13	-	-	-	-
Czech Republic	-	-	-	-	-	1.76	1.76	4.29
Denmark	-	0.31	2.28	2.17	-	-	-	-
Estonia	0.01	0.25	-	-
Finland	0.22	1.48	2.01	1.88	-	2.36	2.64	2.75
France	2.16	0.58	..	10.41	2.89	55.75	63.18	63.13
Germany	9.10	18.75	23.12	..	3.29	22.41	22.40	12.07
Greece	0.10	0.02	1.11	4.07	-	-	-	-
Hungary	1.44	2.93	3.78	4.59	-	1.76	1.85	2.00
Iceland	-	-	-	-	-	-	-	-
Ireland	-	1.39	1.95	3.91	-	-	-	-
Israel	..	-	- e	10.22	..	-	-	-
Italy	3.47	11.69	26.23	49.63	0.55	-	-	-
Japan	3.10	15.62	35.27	46.68	3.91	31.65	45.25	44.26
Korea	-	..	13.37 e	31.21	-	-	13.72	20.72
Luxembourg	-	-	0.06	0.49	-	-	-	-
Mexico	-	4.71	11.87	32.77	-	0.68	1.37	1.40
Netherlands	9.74	13.16	15.87 e	..	0.50	0.51	0.45	0.49
New Zealand	0.53	0.86	1.53	1.85	-	-	-	-
Norway	-	-	0.04	1.45	-	-	-	-
Poland	-	-	0.21	1.06	-	-	-	-
Portugal	-	-	1.87	5.09	-	-	-	-
Slovak Republic	1.16	2.64	1.94
Slovenia	-	-	0.07	0.38	-	-	0.66	0.69
Spain	-	2.04	6.28	..	1.09	6.97	7.50	7.40
Sweden	-	0.90	1.06	9.97	9.46	9.51
Switzerland	-	0.14	0.28	0.28	1.01	2.95	3.20	3.31
Turkey	-	2.21	7.04	25.51	-	-	-	-
United Kingdom	-	0.73	21.87	34.48	4.28	11.35	12.49	9.94
United States	106.82	165.11	243.24	432.15	31.66	99.64	97.86	98.57

1. Net maximum electricity generating capacity on 31 December

2. Includes multi-fired units.

Table 2.5. OECD electricity generating capacity¹, 1974-2014 (GW) (continued)

	Hydro				Geothermal/solar/wind ²			
	1974	1990	2000	2014	1974	1990	2000	2014
OECD Total	178.80	375.47	423.09	472.24	0.88	7.45 e	22.42 e	362.49 e
<i>OECD Americas</i>	40.33	162.26	179.09	196.54	0.08	5.64 e	6.77 e	101.31 e
<i>OECD Asia Oceania</i>	32.35	53.11	63.87	69.39	0.18	0.53 e	1.47 e	40.32 e
<i>OECD Europe</i>	106.12	160.11	180.14	206.31	0.63	1.27	14.18	220.86
Australia	5.32	8.32	9.20	8.05	-	-	0.06	7.81
Austria	5.98	10.95	11.61	13.29	-	-	0.06	2.87
Belgium	0.44	1.40	1.41	1.43	-	0.01	0.01	4.96
Canada	36.78	59.38	67.41	75.54	-	0.02	0.12 e	11.56
Chile	-	2.68	4.43	6.38	-	-	-	0.97
Czech Republic	-	1.41	2.10	2.25	-	-	0.00	2.35
Denmark	0.01	0.01	0.01	0.01	-	0.33	2.39	5.50
Estonia	0.00	0.01	-	0.34
Finland	2.27	2.62	2.88	3.25	-	0.00	0.04	0.64
France	16.09	24.67	25.13	25.29	0.24	0.24	0.29	16.23
Germany	4.81	8.18	9.49	11.23	-	0.05	6.21	77.91
Greece	1.29	2.41	3.07	3.39	-	0.00	0.23	4.57
Hungary	0.02	0.05	0.05	0.06	-	-	-	0.42
Iceland	0.38	0.76	1.06	1.98	0.00	0.05	0.17	0.67
Ireland	0.51	0.51	0.53	0.53	-	-	0.12	2.21
Israel	..	-	-	0.01	..	-	-	0.69 e
Italy	14.87	18.77	20.35	22.10	0.38	0.50	1.13	28.39
Japan	23.55	37.83	46.32	49.60	0.02	0.27 e	0.95 e	26.60
Korea	-	2.34	3.15	6.47	-	0.00	0.01	3.53
Luxembourg	0.91	1.13	1.13	1.33	-	-	0.01	0.17
Mexico	3.55	7.84	9.65	12.46	0.08	0.70	0.89	3.48
Netherlands	-	0.04	0.04	0.04	-	0.05	0.51	3.95
New Zealand	3.48	4.62	5.19	5.26	0.16	0.26	0.45	1.70
Norway	16.08	26.88	28.13	31.15	-	-	0.02	0.90
Poland	0.79	1.89	2.18	2.36	-	-	0.00	3.87
Portugal	2.12	3.36	4.54	5.72	-	0.00	0.10	5.30
Slovak Republic	2.42	2.52	-	0.56
Slovenia	-	0.76	0.84	1.30	-	-	-	0.23
Spain	11.65	15.66	17.96	19.22	-	0.01	2.22	30.06
Sweden	12.31	16.33	16.53	16.00	-	0.01	0.21	5.16
Switzerland	11.72	11.67	13.24	13.74	-	0.00	0.02	1.12
Turkey	1.45	6.76	11.18	23.64	-	0.02	0.04	4.13
United Kingdom	2.41	3.90	4.27	4.47	-	0.01	0.42	18.37
United States	-	92.36	97.60	102.16	-	4.92 e	5.77 e	85.30 e

1. Net maximum electricity generating capacity on 31 December

2. Includes tide, wave, ocean and other (e.g. fuel cells).

Table 2.5. OECD electricity generating capacity¹, 1974-2014 (GW) (continued)

	Biofuels and waste				Total			
	1974	1990	2000	2014	1974	1990	2000	2014
OECD Total	0.16	10.59	16.12 e	30.62	993.32	1729.74 e	2078.14 e	2861.75 e
<i>OECD Americas</i>	0.06	8.55	10.34 e	16.91	487.54	870.20 e	972.91 e	1300.42 e
<i>OECD Asia Oceania</i>	0.02	0.24	0.94 e	1.38	128.07	247.76	377.91	507.63
<i>OECD Europe</i>	0.08	1.81	4.84	12.34	377.71	611.78	727.32	1053.70
Australia	0.02	0.24	0.36	0.73	19.25	38.45	46.20	66.56
Austria	-	0.11	0.13	0.62	8.98	16.69	17.80	24.03
Belgium	-	0.08	0.18	..	8.11	14.14	15.69	20.92
Canada	-	0.91	..	2.04	57.53	104.14	111.32	137.34
Chile	-	-	0.02	0.65	-	5.10	9.89	23.40
Czech Republic	-	-	-	-	-	15.28	15.32	21.97
Denmark	-	0.10	0.13	0.34	5.96	9.12	12.32	13.66
Estonia	-	0.02	2.80	3.10
Finland	-	-	-	0.06	6.50	13.22	16.26	16.25
France	-	-	45.38	103.34	114.67	129.07
Germany	-	0.91	1.94	..	66.20	99.08	118.88	198.42
Greece	-	0.05	0.04	0.07	3.94	8.51	10.90	18.90
Hungary	-	-	-	0.16	3.91	7.18	8.28	8.81
Iceland	-	-	-	-	0.49	0.94	1.38	2.77
Ireland	-	-	0.02	0.08	2.09	3.81	4.71	9.08
Israel	..	-	-	5.07	9.13	16.22
Italy	-	0.13	0.69	3.12	38.34	56.56	75.51	121.76
Japan	-	104.21	194.73	260.49	315.32
Korea	-	..	0.48 e	0.57	-	2.34	53.69	99.83
Luxembourg	-	0.01	0.01	0.03	1.08	1.24	1.22	2.02
Mexico	-	0.05	0.04	0.10	9.92	27.37	40.35	66.24
Netherlands	-	-	-	-	13.56	17.56	21.06	31.76
New Zealand	-	-	0.10	0.08	4.60	7.18	8.39	9.70
Norway	-	0.07	0.14	0.13	16.24	27.13	28.42	33.65
Poland	-	-	0.01	0.82	18.62	27.88	30.56	35.99
Portugal	0.00	0.01	0.07	0.09	2.91	7.41	10.91	19.13
Slovak Republic	0.16	7.45	8.09
Slovenia	-	-	0.00	0.05	-	0.76	2.61	3.45
Spain	0.07	0.10	0.46	..	23.36	42.84	53.92	106.47
Sweden	-	2.94	20.77	34.19	33.72	38.74
Switzerland	-	0.12	0.22	0.37	13.32	15.39	17.26	19.17
Turkey	0.01	-	0.02	0.25	3.73	16.32	27.26	69.52
United Kingdom	-	0.12	0.79	3.05	74.22	73.21	78.39	97.01
United States	0.06	7.58	10.27 e	14.12	420.10	733.59 e	811.35 e	1073.44 e

1. Net maximum electricity generating capacity on 31 December

Table 2.6. OECD electricity consumption, 1974-2014 (TWh)

	1974	1990	2000	2010	2012	2013	2014	74-00	00-14
OECD Total	3974.4	6650.9	8582.4	9685.6	9617.2	9651.7	9596.9	3.0	0.8
OECD Americas	2002.2	3261.5	4278.7	4676.7	4670.9	4712.7	4736.7	3.0	0.7
OECD Asia Oceania	515.3	1055.7	1497.4	1803.7	1782.9	1793.6	1776.9	4.2	1.2
OECD Europe	1456.9	2333.6	2806.3	3205.2	3163.4	3145.4	3083.2	2.6	0.7
Australia	60.2	134.3	179.9	220.8	222.1	222.2	221.5	4.3	1.5
Austria	27.0	43.6	52.6	62.6	63.4	63.4	62.9	2.6	1.3
Belgium	37.8	59.1	79.2	85.9	84.4	83.1	82.0	2.9	0.3
Canada	242.3	433.0 e	503.4 e	506.0	524.0	527.0	518.8	2.9	0.2
Chile	8.2	15.8	37.1	55.3	62.9	66.0	67.1	6.0	4.3
Czech Republic	35.4	53.0	52.3	59.2	58.8	58.6	58.4	1.5	0.8
Denmark	15.3	28.9	33.0	33.0	32.1	32.2	31.6	3.0	-0.3
Estonia	..	7.3	5.4	7.4	7.4	7.3	7.4	..	2.3
Finland	27.7	59.5	76.5	84.8	82.0	81.3	80.4	4.0	0.4
France	168.2	323.3	410.4	471.8	454.2	457.1	431.6	3.5	0.4
Germany	348.9	481.0	501.4	547.3	539.5	537.3	525.9	1.4	0.3
Greece	13.2	29.7	45.0	55.3	53.6	50.5	51.2	4.8	0.9
Hungary	19.9	33.0	30.9	36.0	34.2	36.3	35.9	1.7	1.1
Iceland	2.1	3.9	7.1	15.9	16.5	17.0 e	17.4	4.7	6.6
Ireland	6.4	12.0	20.4	25.6	24.4	24.4	24.3	4.6	1.3
Israel	7.9	18.2	38.6	49.1 e	52.2 e	52.1	52.2	6.3	2.2
Italy	131.0	218.8	279.3	309.9	307.2	297.3	291.1	3.0	0.3
Japan	415.9	780.3	981.1	1035.6	977.0	982.3	964.9 e	3.4	-0.1
Korea	15.0 e	94.4 e	263.1	458.5	492.6	498.2	499.0	11.6	4.7
Luxembourg	3.4	4.1	5.8	6.6	6.3	6.2	6.2	2.0	0.5
Mexico	34.9	100.2	148.3	221.1	253.1	246.5	256.8	5.7	4.0
Netherlands	49.1	75.5	99.0	112.6	108.8	110.0	107.2	2.7	0.6
New Zealand	16.3	28.5	34.8	39.7	39.1	38.8	39.2	3.0	0.9
Norway	64.3	97.4	110.5 e	119.7	117.9	118.5	115.6	2.1	0.3
Poland	72.4	109.2	108.8	129.4	133.3	134.5	136.3	1.6	1.6
Portugal	9.1	24.0	38.9	50.6	47.1	46.3	46.1	5.7	1.2
Slovak Republic	12.9	23.4 e	22.5 e	25.1 e	24.9	26.0	25.1	2.2	0.8
Slovenia	..	9.4	10.7	12.1	12.5	12.6	12.6	..	1.2
Spain	66.8	129.2	194.7	250.2	245.5	235.2	233.3	4.2	1.3
Sweden	70.0	130.7	131.1	135.0	130.3	127.9	125.0	2.4	-0.3
Switzerland	29.6	46.6	52.4	59.8	59.0	59.3	57.5	2.2	0.7
Turkey	11.4	46.8	98.3	172.1	194.9	198.0	207.4	8.7	5.5
United Kingdom	235.2	284.4	340.3	337.5	325.2	325.1	311.0	1.4	-0.6
United States	1716.9	2712.6 e	3589.8 e	3894.4 e	3830.9 e	3873.1 e	3894.1 e	2.9	0.6

Source: IEA/OECD World Energy Statistics.

Note: Electricity consumption = gross production + imports - exports - own use by power plants - electricity used for pumped storage - used for heat pumps - used for electric boilers - transmission and distribution losses
= final consumption + energy sector consumption.

Table 2.7. OECD final consumption of heat, 1990-2014 (PJ)

	1990	2000	2005	2010	2012	2013	2014	90-00	00-14
OECD Total¹	1797.97	2113.33	2472.91	2674.86	2492.39	2473.77	2378.26	..	0.85
OECD Americas	116.66	255.13	175.10	297.36	302.64	274.37	271.88	..	0.46
OECD Asia Oceania ¹	8.36	160.48	213.34	205.80	201.38	201.10	213.75	..	2.07
OECD Europe	1672.96	1697.71	2084.47	2171.70	1988.36	1998.31	1892.63	0.15	0.78
Australia	-	-	-	-	-	-	-	-	-
Austria	25.64	42.70	53.75	77.13	77.21	79.89	72.95	5.23	3.90
Belgium	9.24	20.59	17.94	26.79	22.30	23.23	21.94	8.35	0.45
Canada	26.59	33.98	38.61	19.48	28.99	28.68	37.68	2.48	0.74
Chile	-	-	-	-	-	-	-	-	-
Czech Republic	123.90	109.85	103.74	94.17	93.22	91.43	90.62	-1.20	-1.37
Denmark	73.60	94.37	101.43	118.90	107.71	106.82	95.79	2.52	0.11
Estonia	87.33	21.41	22.92	22.25	20.54	19.51	18.38	-13.11	-1.09
Finland	80.17	136.84	161.00	189.86	179.06	170.71	164.31	5.49	1.32
France	20.00	135.47	174.30	147.57	104.81	97.90	92.83	21.08	-2.66
Germany	383.11	285.99	450.14	471.77	429.14	434.82	383.10	-2.88	2.11
Greece	-	1.17	2.05	1.94	1.89	1.74	2.07	-	4.14
Hungary	66.63	60.59	54.77	45.63	41.48	43.60	37.86	-0.95	-3.30
Iceland	14.07	16.24	17.58	19.18	21.38	22.39	22.44	1.45	2.34
Ireland	-	-	-	-	-	-	-	-	-
Israel	-	-	-	-	-	-	-	-	-
Italy	-	-	129.05	139.50	143.72	154.99	156.88	-	-
Japan	8.36	22.65	25.07	24.42	22.47	22.90	22.90	10.48	0.08
Korea ¹	-	137.84	188.27	181.38	178.91	178.19	190.85	-	2.35
Luxembourg	-	0.54	3.16	3.11	3.08	3.25	3.59	-	14.53
Mexico	-	-	-	-	-	-	-	-	-
Netherlands	12.83	154.84	161.16	125.61	112.56	112.76	109.10	28.29	-2.47
New Zealand	-	-	-	-	-	-	-	-	-
Norway	3.12	5.37	8.73	16.08	15.82	17.62	16.83	5.60	8.50
Poland	651.60	288.31	277.76	274.11	250.53	249.27	228.04	-7.83	-1.66
Portugal	1.19	5.63	13.71	14.14	14.45	14.74	11.30	16.83	5.11
Slovak Republic	27.14	25.92	39.83	35.65	31.94	31.09	25.53	-0.46	-0.11
Slovenia	8.03	8.18	8.19	8.03	7.64	7.66	6.45	0.18	-1.69
Spain	-	-	-	-	-	-	-	-	-
Sweden	71.41	148.64	174.75	215.26	188.37	186.57	174.76	7.61	1.16
Switzerland	13.96	16.78	19.82	20.66	18.87	19.23	17.00	1.86	0.09
Turkey	-	16.18	35.60	51.33	51.32	51.63	84.80	-	12.56
United Kingdom	-	102.11	53.09	53.02	51.32	57.44	56.08	-	-4.19
United States	90.07	221.15	136.48	277.88	273.65	245.69	234.20	-	0.41

Source: IEA/OECD World Energy Balances.

1. Break in series: data related to Korea included from 1991

Table 2.8a. OECD electricity imports, 1974-2015p (GWh)

	1974	1990	2000	2005	2010	2013	2014	2015p
OECD Total	88712	258539	348506	422913	386443	448866	479315	509749
OECD Americas	18218	40863	66193	65475	65047	82259	81443	86772
OECD Asia Oceania	-	-	-	-	-	-	-	-
OECD Europe	70494	217676	282313	357438	321396	366607	397872	422977
Austria	3170	6839	13824	20397	19898	24960	26712	29368
Belgium	2558	4785	11645	14328	12395	17243	21791	23714
Canada	2441	17781	15342	18680	18609	10694	12808	8726
Chile	3	-	1190	2152	958	-	-	-
Czech Republic	3636	8179	8725	12351	6642	10571	11842	16146
Denmark	673	11973	8417	12943	10599	11459	12702	15645
Estonia	..	1475	374	345	1100	2712	3730	5452
Finland	3615	11007	12206	17948	15719	17591	21622	21459
France	6394	6674	3695	8062	19475	11687	7873	9976
Germany	17662	31669	45134	56861	42962	39222	40435	37008
Greece	78	1330	1729	5616	8517	5788	9461	11081
Hungary	5756	13299	9523	15637	9897	16635	19079	19936
Ireland	60	-	169	2045	760	2625	2853	1752
Israel	-	-	-	-	-	-	-	-
Italy	4214	35577	44831	50264	45987	44338	46747	50846
Luxembourg	3527	4678	6445	6392	7280	6852	6961	7519
Mexico	354	576	1069	116	397	1210	2124	2443
Netherlands	10	9679	22946	23691	15583	33252	32855	30761
Norway	63	334	1474	3653	14673	10135	6347	7371
Poland	1734	10437	3290	5002	6310	7801	13508	14459
Portugal	339	1733	4698	9626	5814	8100	7247	8077
Slovak Republic	3161	7255	5951	8005	7334	10719	12964	14956
Slovenia	..	1716	4232	9342	8625	7521	7254	9045
Spain	664	3208	12268	10212	5206	9887	12310	14956
Sweden	6681	12909	18308	14576	14931	12674	13852	9290
Switzerland	6274	20754	24330	38346	33401	29874	28530	34033
Turkey	-	176	3791	636	1144	7429	7953	7411
United Kingdom	225	11990	14308	11160	7144	17532	23244	22716
United States	15420	22506	48592	44527	45083	70355	66511	75603

Source: IEA/OECD World Energy Statistics.

Table 2.8b. OECD electricity exports, 1974-2015p (GWh)

	1974	1990	2000	2005	2010	2013	2014	2015p
OECD Total	81260	243561	347931	407271	374803	439015	474721	511116
OECD Americas	18128	40601	65856	63923	64082	75171	74372	86730
OECD Asia Oceania	72	456	1457	1667	3966	4675	4844	4844
OECD Europe	63060	202504	280618	341681	306755	359169	395505	419542
Austria	6129	7298	15192	17732	17567	17689	17437	19311
Belgium	2882	8509	7319	8024	11844	7603	4188	2715
Canada	15402	18130	50983	42332	43627	62578	58421	68425
Chile	-	-	-	-	-	-	-	-
Czech Republic	4420	8871	18742	24985	21590	27458	28142	28661
Denmark	756	4925	7752	11574	11734	10377	9847	9733
Estonia	..	8477	1303	1953	4354	6300	6484	6377
Finland	475	364	326	933	5218	1876	3655	5122
France	6499	52112	73174	68390	50188	60148	75063	74024
Germany	10639	30739	42077	61427	57917	71415	74320	85290
Greece	38	619	1740	1836	2811	3901	642	1472
Hungary	1097	2152	6083	9410	4702	4758	5689	6249
Ireland	71	-	71	1	290	383	704	1079
Israel	72	456	1457	1667	3966	4675	4844	4844
Italy	1921	922	484	1109	1827	2200	3031	4465
Luxembourg	846	746	737	3131	3216	1907	2067	1919
Mexico	-	1945	195	1788	1348	1240	2653	9160
Netherlands	1489	471	4031	5398	12808	15015	18128	22012
Norway	5607	16241	20529	15695	7124	15141	21932	22015
Poland	4491	11478	9663	16188	7664	12322	11342	14793
Portugal	295	1696	3767	2802	3191	5324	6344	5811
Slovak Republic	184	2059	8647	11270	6293	10628	11862	12608
Slovenia	..	2704	5553	9667	10745	8811	9997	9093
Spain	1799	3628	7827	11555	13539	16638	15716	15089
Sweden	3742	14677	13630	21968	12853	22676	29475	31893
Switzerland	9505	22862	31400	31996	32881	32270	34021	35068
Turkey	-	907	437	1798	1918	1227	2696	2965
United Kingdom	175	47	134	2839	4481	3102	2723	1778
United States	2726	20526	14678	19803	19107	11353	13298	9145

Source: IEA/OECD World Energy Statistics.

PART III

DETAILED OECD ELECTRICITY AND HEAT DATA

DIRECTORY OF PART III TABLES

Part III of *Electricity Information* contains detailed statistical information on electricity and heat for the 34 member countries of the OECD, IEA and for OECD regional aggregates. The tables of regional aggregates are presented before the country tables, which are set out in alphabetical order. As data for some countries were not available for all years (particularly the early years), these aggregate regional table should be used with caution.

A full list of the figures and the tables is set out below. It should be noted that tables are not shown in cases where the data are not applicable. This is particularly the case for tables 9a and 9b which do not appear for countries that do not report electricity trade. However, there are other tables for which the data are not applicable either, and so do not appear.

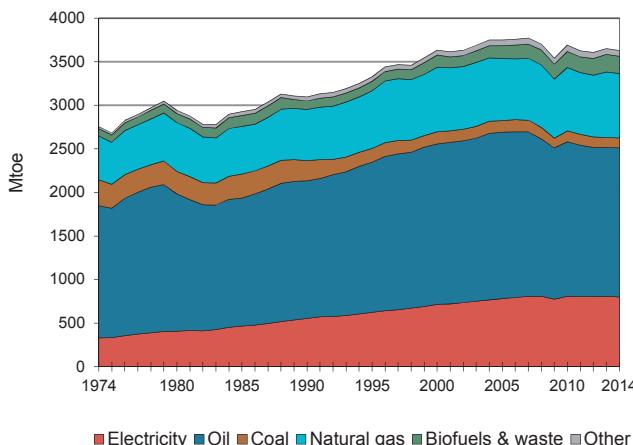
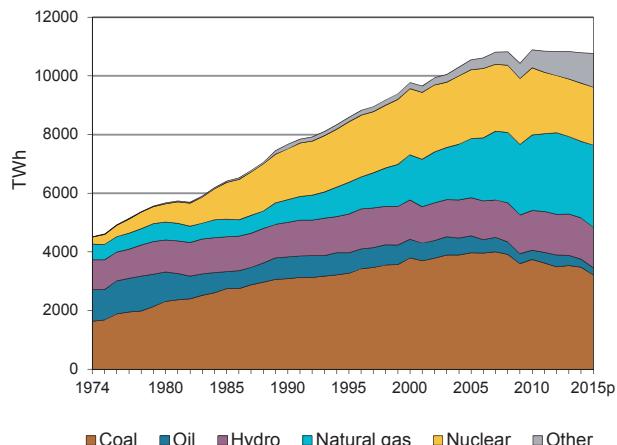
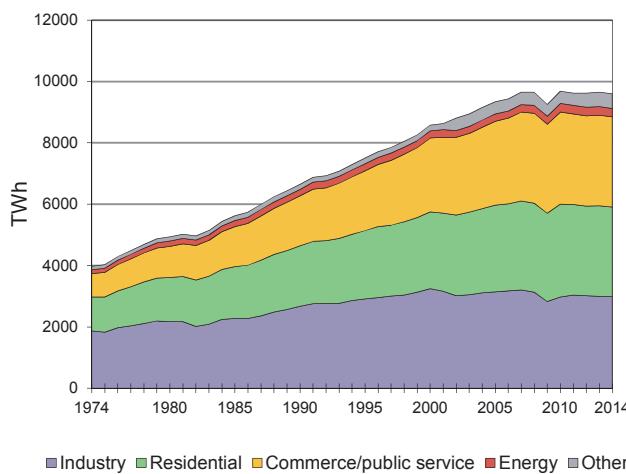
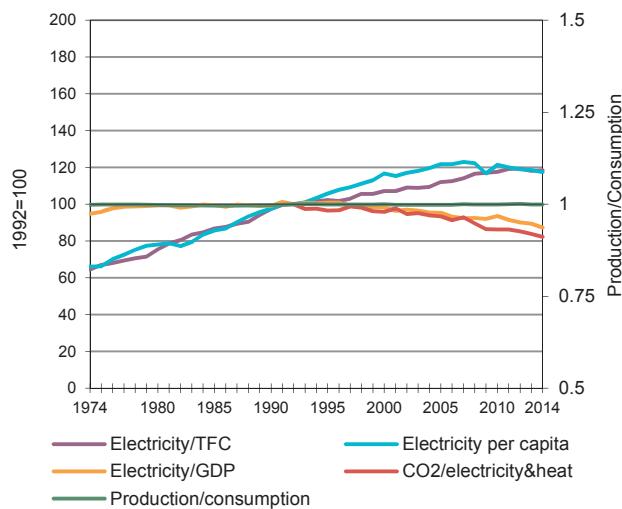
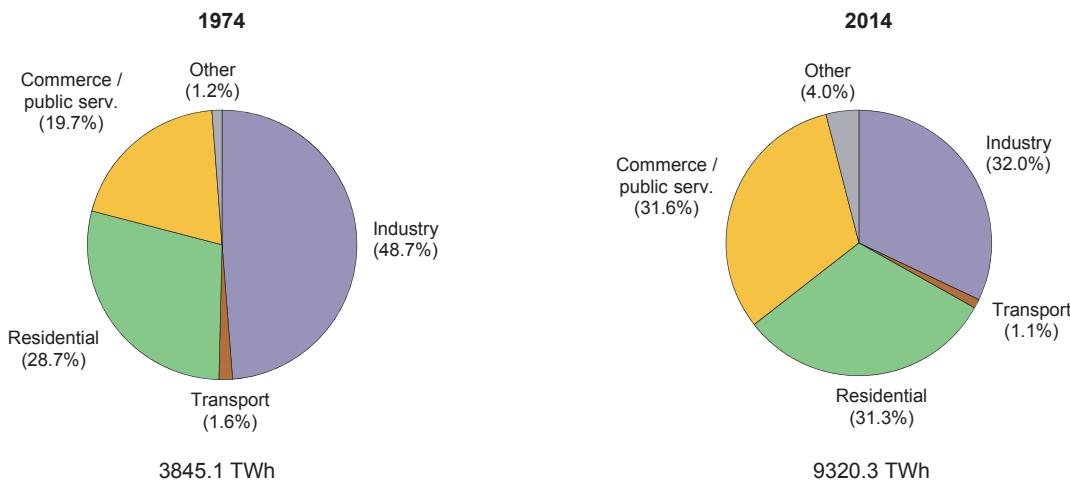
Figures:

1. Total final consumption by fuel
2. Electricity generation by fuel
3. Electricity consumption by sector
4. Electricity indicators
 - Electricity/TFC: relative contribution of electricity to total final energy consumption (1992=100).
 - Electricity/GDP: electricity intensity of economic activity (1992=100).
 - Production/consumption: electricity supply self-sufficiency
= Net production / (net production + imports – exports)
 - Electricity per capita: per capita electricity consumption (1992=100).
 - CO₂/electricity&heat: CO₂ emissions per electricity and heat output (1992=100).
5. Total final electricity consumption by sector 1974 and 2014

Tables:

1. Energy consumption, GDP and population.
2. Total primary energy supply (TPES) by source.
- 3a. Summary electricity production and consumption.
- 3b. Summary heat production and consumption.
- 4a. Gross electricity production by source.
- 4b. Gross heat production by source.
5. Net electricity production by autoproducers.
- 6a. Electricity production from combustible fuels in electricity plants.
- 6b. Electricity and heat produced for sale from combustible fuels in combined heat and power plants.
- 6c. Heat produced for sale from combustible fuels in heat plants.
7. Net maximum electricity generating capacity on 31 December.
8. Capacity factors.
- 9a. Electricity imports by origin.
- 9b. Electricity exports by destination.
- 10a. Share of electricity in total final consumption.
- 10b. Share of heat in total final consumption.

Interpreting energy data and comparing statistics between countries is made difficult by differences in definitions used by countries in the collection and reporting of data. In the section *Introductory Information* such differences are explained. The conventions used by the Secretariat in presenting energy data are also reported in the *Introductory Information*. In particular, readers are strongly advised to read the country notes for historical data. Conversion factors and calorific values are also included for reference.

OECD Total**Figure 1. Total final consumption by fuel****Figure 2. Electricity generation by fuel****Figure 3. Electricity consumption by sector****Figure 4. Electricity indicators****Figure 5. Total final electricity consumption by sector**

OECD Total**Table 1. Energy consumption, GDP and population**

	1974	1990	2000	2010	2013	2014	2015p	74-00	00-15
TPES (Mtoe)	3694.69	4525.76	5299.94	5423.77	5309.77	5273.27	5268.52	1.4	-0.0
GDP (billion 2005 USD)	17928.81	29171.43	37956.87	44440.24	46299.65	47107.38	48036.46	2.9	1.6
TPES/GDP ¹	0.21	0.16	0.14	0.12	0.11	0.11	0.11	-1.5	-1.6
Population (millions)	929.53	1070.17	1153.92	1237.97	1259.81	1266.94	1275.03	0.8	0.7
TPES/population ²	3.97	4.23	4.59	4.38	4.21	4.16	4.13	0.6	-0.7
TPES/GDP (2005 = 100)	158	119	107	93	88	86	84	-1.5	-1.6
Ele.TFC/GDP(2005=100) ³	100	103	102	98	94	92	..	0.1	..
Ele.TFC/population ⁴	4138	6018	7237	7597	7446	7359	..	2.2	..
Elec. generated (TWh) ⁵	4521.76	7666.15	9768.24	10890.87	10836.08	10784.46	10762.00	3.0	0.6

Source: IEA/OECD *World Energy Balances* and OECD *Main Economic Indicators*.**Table 2. Total primary energy supply (TPES) by source**

	1974	1990	2000	2010	2013	2014	2015p	74-00	00-15
TPES (Mtoe)	3694.69	4525.76	5299.94	5423.77	5309.77	5273.27	5268.52	1.4	-0.0
Coal	841.90	1080.92	1100.58	1092.15	1028.44	1012.46	948.51	1.0	-1.0
Oil	1892.68	1869.92	2114.65	1967.45	1890.47	1881.11	1902.54	0.4	-0.7
Natural gas	713.23	842.77	1162.60	1323.91	1367.95	1343.84	1371.93	1.9	1.1
Biofuels & waste	89.16	149.21	183.29	264.07	298.95	299.79	303.18	2.8	3.4
Nuclear	63.30	451.21	586.18	596.49	511.52	516.27	514.38	8.9	-0.9
Geothermal	6.37	26.50	30.44	29.58	31.65	33.41	35.04	6.2	0.9
Solar, wind, tide ⁶	0.05	2.50	6.53	32.16	57.58	64.61	73.98	20.3	17.6
Hydro	87.35	101.42	115.17	116.32	121.55	120.47	118.31	1.1	0.2
Net electricity imports ⁷	0.64	1.29	0.05	1.00	0.85	0.40	-0.12	-9.4	-
Heat	-	0.02	0.45	0.63	0.81	0.90	0.76	-	3.5

Source: IEA/OECD *World Energy Balances*.

1. In units of toe/2005 thousand US dollars.
2. In units of toe/per capita.
3. Ele.TFC = electricity total final consumption.
4. In units of kWh/per capita.
5. Electricity generated = gross production - amount of electricity produced in pumped storage plants.
6. Includes wave, ocean and other (e.g. fuel cells).
7. Net electricity imports between OECD and non-OECD countries.

OECD Total**Table 3a. Summary electricity production and consumption¹ (TWh)**

	1974	1990	2000	2005	2010	2013	2014	2015e
Gross production	4532.54	7711.63	9839.93	10618.57	10957.73	10898.32	10846.94	10822.38
- Own use by power plant	207.72	407.12	492.16	491.91	500.43	488.54	485.16	-
Net production	4324.82	7304.51	9347.77	10126.65	10457.31	10409.78	10361.78	-
- Used for heat pumps	-	0.01	2.29	1.96	1.81	1.62	2.02	1.36
- Used for electric boilers	-	0.81	3.79	2.30	2.21	2.49	2.36	2.26
- Used for pumped storage	16.45	65.76	92.38	98.95	86.41	81.53	84.17	78.76
+ Imports	88.71	258.54	348.51	422.91	386.44	448.87	479.32	509.75
- Exports	81.26	243.56	347.93	407.27	374.80	439.02	474.72	511.12
Electrical energy supplied	4315.82	7252.92	9249.89	10039.08	10378.51	10333.99	10277.83	..
- Transmission & distr. losses	341.46	583.46	625.89	687.56	689.48	689.61	680.06	..
- Statistical difference	-0.01	18.56	41.60	12.54	3.41	-7.34	0.89	..
Total consumption	3974.38	6650.90	8582.40	9338.98	9685.63	9651.72	9596.88	..
Energy industry consumption²	129.27	212.63	233.85	240.26	284.02	273.89	276.62	..
Coal Mines	38.32	43.83	37.78	32.28	32.83	29.98	29.74	..
Oil + Gas Extraction	15.37	47.61	53.78	56.11	65.08	71.53	75.05	..
Patent Fuel Plants	0.04	0.03	0.00	0.00	0.00	-	-	..
Coke Ovens	2.11	3.60	3.06	3.42	3.99	4.09	3.98	..
BKB plants	4.52	9.08	5.04	5.12	5.15	5.01	5.00	..
Gas Works	4.17	1.95	0.55	0.68	0.18	0.25	0.27	..
Blast Furnaces	-	0.81	1.03	5.12	4.83	5.41	5.35	..
Oil Refineries	53.86	70.84	101.55	96.70	116.97	115.97	115.59	..
Nuclear Industry	-	13.77	16.64	0.29	0.37	0.34	0.33	..
Coal Liquefaction Plants	-	-	0.06	0.07	0.08	0.17	0.20	..
LNG/Regasification Plants	-	1.02	0.91	0.77	0.89	1.01	0.95	..
Energy - Non Specified	10.90	20.09	13.47	39.70	53.66	40.12	40.14	..
Final consumption	3845.10	6438.28	8348.55	9098.71	9401.61	9377.84	9320.26	..
Industry	1874.43	2668.88	3251.37	3138.74	2980.61	2998.23	2983.45	..
Iron and steel	277.71	300.71	344.56	334.98	313.20	320.79	328.01	..
Chem. and petrochemical	399.63	521.94	603.78	493.35	456.09	427.45	429.43	..
Non-ferrous metals	258.88	234.98	299.19	293.56	258.29	276.46	278.09	..
Non-metallic minerals	97.24	154.45	184.92	190.12	167.99	164.12	165.27	..
Transport equipment	66.90	99.98	153.62	156.76	143.28	151.81	153.10	..
Machinery	124.73	312.75	326.33	349.13	386.92	390.06	389.49	..
Mining and quarrying	60.70	106.69	118.89	92.71	105.36	122.84	120.19	..
Food and tobacco	89.39	176.36	227.70	249.87	249.08	244.88	247.51	..
Paper, pulp and printing	170.60	336.21	400.29	355.35	301.74	281.34	249.77	..
Wood and wood products	35.43	83.69	86.81	78.78	70.44	67.10	70.56	..
Construction	7.06	22.86	24.48	58.56	87.13	83.21	81.42	..
Textile and leather	87.43	108.30	113.23	96.49	74.44	69.59	69.49	..
Non specified/other	198.72	209.97	367.58	389.09	366.64	398.58	401.13	..
Transport	62.54	89.92	106.40	105.61	101.82	105.40	104.41	..
Rail Transport	57.26	73.58	84.28	85.93	83.99	83.86	82.25	..
Pipeline Transport	2.89	3.15	4.61	4.57	4.43	5.08	5.21	..
Road	-	0.91	0.98	1.24	1.08	2.26	2.71	..
Transport Non Specified	2.39	12.29	16.53	13.87	12.32	14.21	14.24	..
Commercial & publ. serv.	1103.44	1973.03	2504.15	2831.26	3021.10	2946.53	2920.07	..
Residential	758.00	1627.85	2401.53	2729.72	2999.66	2960.75	2941.37	..
Agriculture	36.33	64.52	75.30	120.95	123.81	121.61	119.24	..
Fishing	-	0.60	0.60	2.76	3.31	3.64	3.98	..
Sector non specified	10.36	13.46	9.20	169.68	171.30	241.68	247.74	..

1. Electricity generation from main activity producer power plants and autoproducers.

2. Energy industry consumption = electricity consumed by transformation industries for heating, traction and lighting purposes;

excludes own use by power plant and electricity used for heat pumps, electric boilers and pumped storage.

OECD Total**Table 3b. Summary heat production and consumption¹ (TJ)**

	1974	1990	2000	2005	2010	2013	2014	2015e
Gross production	1084304	2073875	2439236	2919009	3299516	3105955	2969933	3000715
- Own use by power plant	-	8804	8865	63527	115440	110203	102116	-
Net production	1084304	2065071	2430371	2855482	3184076	2995752	2867817	-
- Used for electricity production	-	3794	13811	19385	24178	54383	51615	50701
+ Imports	-	122	144	153	174	172	230	245
- Exports	-	122	283	381	374	244	215	229
Heat energy supplied	1084304	2061277	2416421	2835869	3159698	2941297	2816217	..
- Transmission & distr. losses	18571	125558	159107	204070	244936	230684	220691	..
- Statistical difference	-	11695	6115	4194	15605	23267	19795	..
Total consumption	1069288	1924024	2251199	2627605	2899157	2687346	2575731	..
Energy industry consumption²	124267	126053	137871	154697	224295	213577	197472	..
Coal Mines	39189	26126	13540	10986	10439	9352	7784	..
Oil + Gas Extraction	149	158	438	1661	2437	812	1051	..
Patent Fuel Plants	791	69	-	-	-	-	19	..
Coke Ovens	24325	15830	12916	4222	3777	3692	3925	..
BKB plants	586	330	731	1885	842	4707	5644	..
Gas Works	9407	7775	2464	2842	3627	2826	3450	..
Blast Furnaces	-	-	-	-	-	368	346	..
Oil Refineries	28419	18057	81603	79863	161188	163743	146705	..
Nuclear Industry	1641	-	629	591	15	4	4	..
Coal Liquefaction Plants	-	-	-	319	432	197	200	..
LNG/Regasification Plants	-	-	-	-	-	32	9	..
Energy - Non Specified	16205	57708	25550	52328	41538	27844	28335	..
Final consumption	945021	1797971	2113328	2472908	2674862	2473769	2378259	..
Industry	467136	621741	745843	933060	1015593	997953	1015742	..
Iron and steel	34405	37011	20041	13466	19688	21327	24192	..
Chem. and petrochemical	117858	155105	382097	435302	490762	506928	483490	..
Non-ferrous metals	5858	5407	8748	8485	13359	9990	8638	..
Non-metallic minerals	15069	15279	5558	8598	8171	8895	9960	..
Transport equipment	16093	24835	16918	36090	36680	34161	30019	..
Machinery	35294	51663	19928	35366	38244	31406	30566	..
Mining and quarrying	35389	40111	5093	4196	7959	5335	3589	..
Food and tobacco	69871	65218	45995	47386	64697	69678	77081	..
Paper, pulp and printing	27864	40492	60283	102167	118320	128678	130472	..
Wood and wood products	12727	10163	11156	11442	30787	31653	28071	..
Construction	13521	13250	1627	2620	2170	1997	2070	..
Textile and leather	31868	29778	42860	43925	33898	26812	28051	..
Non specified/other	51319	133429	125539	184017	150858	121093	159543	..
Transport	-	-	-	-	-	-	-	..
Commercial & publ. serv.	41059	257519	346812	462314	569145	484800	465832	..
Residential	348821	821833	862964	886904	926667	959380	865960	..
Agriculture	16447	42287	20227	14431	11247	10042	9904	..
Fishing	-	258	298	351	352	411	412	..
Sector non specified	71558	54333	137184	175848	151858	21183	20409	..

1. Heat generation from main activity producer power plants and autoproducers.

2. Energy industry consumption = electricity consumed by transformation industries for heating, traction and lighting purposes;

excludes own use by power plant and electricity used for heat pumps, electric boilers and pumped storage.

OECD Total**Table 4a. Gross electricity production by source (TWh)**

	1974	1990	2000	2010	2013	2014	2015e	74-00	00-15
Total plants gross production¹	4532.54 e	7711.63 e	9839.93 e	10957.73	10898.32	10846.94	10822.38 e	3.0	0.6
Nuclear	242.08	1729.45	2249.14	2288.37	1962.36	1980.65	1973.27	9.0	-0.9
Hydro	1026.52	1224.77	1410.84 e	1419.45	1475.58	1463.30	1436.06 e	1.2	0.1
- Of which pumped storage	10.79	45.48	71.69	66.86	62.25	62.48	60.38	7.6	-1.1
Geothermal	6.97	28.61	32.98	43.46	46.05	48.37	50.18	6.2	2.8
Solar	-	0.68 e	1.25 e	32.50 e	121.95 e	155.36 e	183.02 e	-	39.4
Wind	-	3.85	28.52 e	268.68 e	446.80	487.73 e	565.81 e	-	22.0
Combustible fuels	3256.38 e	4723.53 e	6115.23 e	6896.20	6832.12	6697.65	6601.52 e	2.5	0.5
- Coal	..	3093.74 e	3792.79 e	3741.77 e	3538.37 e	3477.80	3214.77 e	-	-1.1
- Oil	..	733.20 e	636.51 e	315.89 e	344.01 e	276.99 e	247.66 e	-	-6.1
- Natural gas	..	773.82 e	1542.89 e	2576.35	2638.72	2615.12	2803.02 e	-	4.1
- Biofuels & waste	..	122.78 e	143.04 e	262.19	311.02 e	327.73 e	336.07 e	-	5.9
Other ²	0.60	0.73 e	1.97 e	9.07	13.46 e	13.87 e	12.52 e	4.7	13.1
Of which autoproducers	367.62 e	659.73 e	690.73 e	752.46	781.08	783.47	..	2.5	-
Nuclear	4.23	6.52	0.71	-	-	-	..	-6.6	..
Hydro	72.53	83.46	67.24 e	61.62	67.37	64.49	..	-0.3	-
- Of which pumped storage	-	0.08	0.10	0.03	0.03	0.03	..	-	..
Geothermal	-	7.23	0.27	0.22	0.22	0.22	..	-	..
Solar	-	0.67 e	0.62 e	8.40 e	35.90 e	51.24 e	..	-	-
Wind	-	3.11	1.32 e	8.40 e	13.49	17.31 e	..	-	-
Combustible fuels	290.85 e	558.60 e	620.08 e	666.99	656.47	642.47	..	3.0	-
- Coal	..	161.24 e	167.64 e	136.27 e	117.11 e	113.28	..	-	-
- Oil	..	125.52 e	146.57 e	91.15	75.15 e	72.92	..	-	-
- Natural gas	..	155.12 e	212.74	314.83	324.79	312.53
- Biofuels & waste	..	116.73 e	93.12 e	124.74	139.42 e	143.74 e	..	-	-
Other ²	-	0.14	0.49	6.84	7.63 e	7.74 e	..	-	..

Table 4b. Gross heat production by source (PJ)

	1974	1990	2000	2010	2013	2014	2015e	74-00	00-15
Total plants heat generation³	1084.30 e	2073.88 e	2439.24 e	3299.52	3105.96	2969.93	3000.72 e	3.2	1.4
Nuclear	9.01	21.20	1.71	5.37	4.96	4.31	5.48	-6.2	8.1
Geothermal	..	15.40	18.31	26.01	28.33	29.49	30.54 e	..	3.5
Combustible fuels	1075.30 e	2030.02 e	2362.23 e	3205.22	2998.61	2857.28	2895.69 e	3.1	1.4
- Coal	..	1346.67 e	900.51 e	919.60 e	796.52 e	743.56	734.06 e	-	-1.4
- Oil	..	190.81 e	256.58 e	268.37	169.72	155.78	149.30 e	-	-3.5
- Natural gas	..	288.47 e	927.05 e	1429.24 e	1339.72 e	1253.72 e	1286.58 e	-	2.2
- Biofuels & waste	..	122.76 e	278.09 e	588.01	692.65 e	704.22	725.76 e	-	6.6
Chemical processes	-	0.78 e	3.88 e	13.17 e	21.68 e	24.95 e	21.10 e	-	12.0
Heat pumps	..	0.06	27.44	23.09	20.48	22.58	17.72 e	..	-2.9
Electric boilers	..	2.74	13.50	7.90	8.75 e	8.38 e	8.16	..	-3.3
Other sources	-	3.68 e	12.15 e	18.58	22.62	22.20	21.14	-	3.8
Of which Autoproducers	416.03 e	541.94 e	514.84 e	566.86	550.57	542.49	..	0.8	-
Nuclear	-	-	-	-	-	-	..	-	..
Geothermal	-	..	0.05	0.52	0.61	0.84	..	-	..
Combustible fuels	416.03 e	538.85 e	505.12 e	548.54	519.49	508.83	..	0.7	-
- Coal	..	400.15 e	124.39 e	98.67 e	89.43 e	97.13	..	-	-
- Oil	..	49.70 e	121.41	136.58	77.64	70.22
- Natural gas	..	34.54 e	175.64 e	193.39	201.07	186.74	..	-	-
- Biofuels & waste	..	54.46 e	83.68 e	119.90	151.35 e	154.74	..	-	-
Chemical processes	-	0.78 e	3.88 e	13.17 e	21.68 e	24.95 e	..	-	-
Heat pumps	-	-	0.15	0.19	0.15	0.25	..	-	..
Electric boilers	-	-	0.06	0.01	0.01 e	0.03	..	-	..
Other sources	-	2.32 e	5.59 e	4.44	8.63	7.59	..	-	-

1. Electricity generated from main activity producer power plants and autoproducers.

2. Includes wave, ocean and other sources (e.g. fuel cells, electricity from chemical heat).

3. Total heat generation = gross production of heat from main activity producer + heat sold in autoproducers.

OECD Total**Table 5. Net electricity production by autoproducers (GWh)**

	1974	1990	2000	2010	2012	2013	2014	74-00	00-14
Total	286879 e	626809 e	670288 e	723355 e	752607 e	752076 e	754605 e	3.3	0.8
Total energy	12901	48240 e	45936 e	123967	117386	115894	114499	5.0	6.7
Coal mines	-	1	3102 e	10774	3833	4482	4097	-	2.0
Oil and gas extraction	-	857	2375	18796	15878	16846	16231	-	14.7
Patent fuel plants	-	-	481 e	660	684	675	698	-	2.7
Coke ovens	-	-	18	1169	1176	974	759	-	30.6
Gas works	-	13	34	7	4	15	11	-	-7.7
BKB	30	8204	30516 e	70990	74732	73672	69934	30.5	6.1
Oil refineries	-	-	15	34	39	44	17	-	0.9
Energy non specified/other	-	-	-	-	1	1	-	-	-
Total industry	224583 e	478366 e	448087 e	500974	504584	503947	496909	2.7	0.7
Iron and steel	25416 e	41012 e	57383 e	63195	63858	63198	59185	3.2	0.2
Chemical and petrochemical	54090 e	88630 e	96857 e	145982	140317	141466	139938	2.3	2.7
Non-ferrous metals	7944 e	7975 e	19435 e	17485	18134	16053	15390	3.5	-1.7
Non-metallic minerals	1089 e	11695	19085 e	20620	19964	20636	20247	11.6	0.4
Transport equipment	690 e	985	1597	3391	3044	2862	2239	3.3	2.4
Machinery	447 e	5584	8265 e	5804	4932	5064	4777	11.9	-3.8
Mining and quarrying	40859 e	22458	18443	10899	11011	11263	13240	-3.0	-2.3
Food and tobacco	4361 e	13929 e	24480 e	39130	39019	34231	33648	6.9	2.3
Pulp and printing	12807	40285 e	68033 e	115864	118573	120799	116789	6.6	3.9
Wood and wood products	2144 e	3329	4160 e	5490	6025	6059	5843	2.6	2.5
Construction	-	113	435	886	926	875	873	-	5.1
Textile and leather	3604 e	3847	10589 e	6062	6051	4813	4087	4.2	-6.6
Non specified/other industries	71132 e	238524 e	119325 e	66166	72730 e	76628	80653	2.0	-2.8
Total transport	-	1869	1130	2211	2065	2323	2277	-	5.1
Rail	-	-	-	563	605	740	766	-	-
Pipeline	-	-	-	68	50	203	183	-	-
Transport non specified	-	1869	1130	1580	1410	1380	1328	-	1.2
Other	49395 e	98334 e	175135 e	96203	128572	129912	140920	5.0	-1.5
Commerce and pub. services	29 e	15830 e	37545 e	50816 e	55282	51066	52489	31.7	2.4
Residential	-	3	84	388 e	2072	3221	4258	-	32.4
Agriculture	5	113	2360	15004	15823	15345	13682	26.7	13.4
Fishing	-	10	7	14	36	28	33	-	11.7
Sector non specified	49361 e	82378	135139 e	29981 e	55359 e	60252 e	70458 e	3.9	-4.5

Notes: Data reported in this table prior to 1990 may refer to combustible fuels only.

OECD Total**Table 6a. Electricity production from combustible fuels in electricity plants¹**

	1990	2000	2005	2010	2012	2013	2014	90-00	00-14
Steam coal									
Fuel input (1000 t)	920202 e	1182848 e	1173145 e	1224550	1118392	1154886	1126239	2.5	-0.3
Fuel input (TJ)	22013930 e	28223381 e	26607082 e	27931876 e	25444792 e	26280890 e	25628429	2.5	-0.7
Electricity production (GWh)	2283952 e	2937422 e	2774415 e	2935926 e	2689303 e	2770784 e	2721065	2.5	-0.5
Lignite									
Fuel input (1000 t)	475230 e	464097 e	455452 e	422057	438876	404984	400947	-0.2	-1.0
Fuel input (TJ)	4441414 e	4398873 e	4265635	4067679	4204678	3941706	3878728	-0.1	-0.9
Electricity production (GWh)	413533 e	429456 e	416727	390425	405187	386067	379978	0.4	-0.9
Coal manufactured gases²									
Fuel input (TJ)	526480 e	641570 e	609481 e	619315	624251	649532	708091	2.0	0.7
Electricity production (GWh)	54100 e	66317 e	63451 e	65125 e	65040	66626	72220	2.1	0.6
Other coal products³									
Fuel input (1000 t)	24751	27105	142037	23292	23372	20920	21884	0.9	-1.5
Fuel input (TJ)	554885 e	466436	3601563	310736	339594	213397	236714	-1.7	-4.7
Electricity production (GWh)	60015 e	50312	387603	31369	35643	20809	23423	-1.7	-5.3
Oil and petroleum products									
Fuel input (1000 t)	153834 e	129836 e	114849 e	58436 e	75902 e	66194 e	51614	-1.7	-6.4
Fuel input (TJ)	6575207 e	5484737 e	4581801 e	2312379 e	3063289 e	2670619 e	2104590	-1.8	-6.6
Electricity production (GWh)	692949 e	567535 e	501536 e	257487 e	351698 e	301238 e	230767 e	-2.0	-6.2
Natural gas²									
Fuel input (TJ)	6225797 e	10657719 e	12573347 e	16601952	18258977 e	17047459	16954708	5.5	3.4
Electricity production (GWh)	613957 e	1145160 e	1476077 e	1991337	2188513	2077801	2086463	6.4	4.4
Solid biofuels									
Fuel input (TJ)	354645	344363 e	561733	759386	814425	861799	945127	-0.3	7.5
Electricity production (GWh)	26425 e	33342	44787 e	65615	69511	75780	81491	2.4	6.6
Industrial waste									
Fuel input (TJ)	33243	60327 e	28930	52611	66551	60895	62958	6.1	0.3
Electricity production (GWh)	3403	5495 e	2931	3572	4776	4249	4444	4.9	-1.5
Municipal waste									
Fuel input (TJ)	212345	351427 e	445546 e	518287	520048	522449	529093	5.2	3.0
Electricity production (GWh)	13457	24687	28599 e	36229	35658	35358	37790	6.3	3.1
Biogases and liquid biofuels									
Fuel input (TJ)	40066	122042 e	199736 e	291156	346363	411062 e	440277 e	11.8	9.6
Electricity production (GWh)	2989	10130 e	16995 e	27255	33518	39883	42052	13.0	10.7
Total combustible fuels									
Electricity production (GWh)	4164780 e	5269856 e	5713121 e	5804340 e	5878847 e	5778595 e	5679693 e	2.4	0.5

1. Excludes CHP plants.

2. Coal manufactured gases and natural gas are expressed on a gross calorific value basis.

3. Includes Coking coal as well as peat and peat products, patent fuels, BKB and shale oil

OECD Total**Table 6b. Electricity and heat produced for sale from combustible fuels
in combined heat and power plants (CHP plants)**

	1990	2000	2005	2010	2012	2013	2014	90-00	00-14
Steam coal									
Fuel input (1000 t)	102246 e	96954 e	100218 e	96735	85015	86637	80562	-0.5	-1.3
Fuel input (TJ)	2304501 e	2308252 e	2290915 e	2197539 e	1887165 e	1936520 e	1793650	0.0	-1.8
Electricity production (GWh)	179227 e	199849 e	201992 e	199539 e	169708 e	173193 e	162979	1.1	-1.4
CHP Heat production (TJ)	603636 e	501417 e	487102 e	551172 e	453648 e	472931 e	431338	-1.8	-1.1
Lignite									
Fuel input (1000 t)	116463 e	92934 e	103239	99393	110107	111531	112110	-2.2	1.3
Fuel input (TJ)	1026574 e	866475 e	926165	899550	958623	951118	935456	-1.7	0.5
Electricity production (GWh)	72023 e	77567 e	86543	79721	86364	87051	85502	0.7	0.7
CHP Heat production (TJ)	292688 e	168741 e	103467	103246	100866	100950	104737	-5.4	-3.3
Coal manufactured gases¹									
Fuel input (TJ)	195864 e	292187 e	307106	318255	302797	274558	270965	4.1	-0.5
Electricity production (GWh)	14069 e	28245 e	28669	31292	29956	28598	27281	7.2	-0.2
CHP Heat production (TJ)	34419 e	23031 e	46178	37983 e	35440	33956 e	29920	-3.9	1.9
Other coal products²									
Fuel input (1000 t)	26341	6211 e	9427	8749	7834	6050	5858	-13.5	-0.4
Fuel input (TJ)	242567	67517	149039	115073	111125	72520	74295	-12.0	0.7
Electricity production (GWh)	16816 e	3626	11407	8375	8142	5241	5356	-14.2	2.8
CHP Heat production (TJ)	66971 e	34383 e	73243	60663	57431	36879	38932	-6.4	0.9
Petroleum products									
Fuel input (1000 t)	10035 e	18932 e	21391 e	16790	14094	12056	12275	6.6	-3.0
Fuel input (TJ)	406842 e	732374 e	855033 e	658427	546827	471365	474920	6.1	-3.0
Electricity production (GWh)	40247 e	68970 e	78235 e	58400	51144	42768	46225	5.5	-2.8
CHP Heat production (TJ)	107966 e	164029 e	250772 e	217190	170644 e	136098	125692	4.3	-1.9
Natural gas¹									
Fuel input (TJ)	1865377 e	3904684 e	5321278 e	5424342	5337016	5065616	4811183	7.7	1.5
Electricity production (GWh)	159861 e	397728 e	534736	585014	585551	560923	528661	9.5	2.1
CHP Heat production (TJ)	187733 e	693037 e	980096	1151262	1104768	1039958	980193	14.0	2.5
Solid Biofuels									
Fuel input (TJ)	1266551 e	619076 e	786319	821483	1057479	1082862 e	1061203	-6.9	3.9
Electricity production (GWh)	68730 e	51302 e	66609 e	82720	92314	91898 e	93012	-2.9	4.3
CHP Heat production (TJ)	13788 e	87941	130547	227882	253913	268039 e	265676	20.4	8.2
Industrial waste									
Fuel input (TJ)	80228	73465	49299	54188	75813	59200	56359	-0.9	-1.9
Electricity production (GWh)	4262	7282	6210	4696	4899	4586 e	4269 e	5.5	-3.7
CHP Heat production (TJ)	3757	3249	6619	13190	18877	15482	16349	-1.4	12.2
Municipal waste									
Fuel input (TJ)	88759	190144 e	291929 e	371977	423631	452301	480360	7.9	6.8
Electricity production (GWh)	2849	7814 e	13558 e	19201	22240	22991	24243	10.6	8.4
CHP Heat production (TJ)	37009	91951 e	109807	145500	168384	176616	192868	9.5	5.4
Biogases and liquid biofuels									
Fuel input (TJ)	6882	30648	53598 e	169185	249069	271162	302738	16.1	17.8
Electricity production (GWh)	663	2991	5878 e	22905	33971	36273	40429	16.3	20.4
CHP Heat production (TJ)	125	3887	5288	10586	16969	21311	24693	41.0	14.1
Total combustible fuels									
Electricity production (GWh)	558747 e	845374 e	1033837 e	1091863 e	1084289 e	1053522 e	1017957 e	4.2	1.3
CHP Heat production (TJ)	1348092 e	1771666 e	2193119 e	2518674 e	2380940 e	2302220 e	2210398	2.8	1.6

1. Coal manufactured gases and natural gas are expressed on a gross calorific value basis.

2. Includes Coking coal as well as peat and peat products, patent fuels, BKB and shale oil

OECD Total**Table 6c. Heat produced for sale from combustible fuels in heat plants¹**

	1990	2000	2005	2010	2012	2013	2014	90-00	00-14
Steam coal									
Fuel input (1000 t)	19574	8070	6805	7906	7521	7103	6284	-8.5	-1.8
Fuel input (TJ)	418892	178574	156356	183265	173846	165516	146409	-8.2	-1.4
Heat production (TJ)	300505	144571	122389	142589	133193	132281	118510	-7.1	-1.4
Lignite									
Fuel input (1000 t)	2700 e	695 e	1028	385	376	430	398	-12.7	-3.9
Fuel input (TJ)	29203 e	9606 e	11364	5126	4729	5319	4774	-10.5	-4.9
Heat production (TJ)	20749 e	6781 e	7137	4474	3871	4010	3647	-10.6	-4.3
Coal manufactured gases²									
Fuel input (TJ)	7547 e	13037 e	5806	7849	8548	8826	8514	5.6	-3.0
Heat production (TJ)	5339 e	10576 e	4352	5295	6207	6158	6228	7.1	-3.7
Other coal products³									
Fuel input (1000 t)	1971 e	977 e	1069	1249	1218	899	923	-6.8	-0.4
Fuel input (TJ)	29701 e	13000 e	14647	18029	18342	11176	12366	-7.9	-0.4
Heat production (TJ)	22362 e	11012 e	12988	14176	12885	9351	10245	-6.8	-0.5
Petroleum products									
Fuel input (1000 t)	2571	2750 e	2177 e	1443	1216	956	974	0.7	-7.1
Fuel input (TJ)	105056	116567 e	92509	60889	50940	40461	41929	1.0	-7.0
Heat production (TJ)	82848	92551 e	78682	51179	42009	33620	30089	1.1	-7.7
Natural gas²									
Fuel input (TJ)	137575 e	310236 e	400630	379395	400092	408667	371401	8.5	1.3
Heat production (TJ)	100734 e	234012 e	287723	277977 e	291397 e	299760 e	273529 e	8.8	1.1
Solid biofuels									
Fuel input (TJ)	28177 e	63422	93591	136908	151564	148464	154794	8.5	6.6
Heat production (TJ)	23001 e	53589	77729 e	112601	124253	123879 e	127935	8.8	6.4
Industrial waste									
Fuel input (TJ)	270	4083 e	1356	9085	23137	21136	14184	31.2	9.3
Heat production (TJ)	192	3196 e	856	6320	17664	18949	12188	32.5	10.0
Municipal waste									
Fuel input (TJ)	73426	47895	65562 e	97799	82953 e	82433	83872	-4.2	4.1
Heat production (TJ)	44852 e	33190 e	42742 e	60713	49545	59630	56680	-3.0	3.9
Biogases and liquid biofuels									
Fuel input (TJ)	45	1304	5980	16528	13348 e	12884	12221	40.0	17.3
Heat production (TJ)	34	1083	4964	11222	9789	8747 e	7829	41.4	15.2
Total combustible fuels									
Heat production (TJ)	600616	590561 e	639562 e	686546 e	690813 e	696385 e	646880 e	-0.2	0.7

1. Excludes CHP plants

2. Coal manufactured gases and natural gas are expressed on a gross calorific value basis.

3. Includes Coking coal as well as peat and peat products, patent fuels, BKB and shale oil

OECD Total**Table 7. Net maximum electricity generating capacity on 31 December (GW)**

	1974	1990	2000	2005	2010	2012	2013	2014
Total capacity¹	993.32	1729.74	2078.14	2382.34	2649.27	2763.94	2796.70	2861.75
Nuclear	52.92	266.79	302.74	315.06	313.55	306.66	302.51	302.42
Hydro	178.80	375.47	423.09	437.47	455.07	464.16	468.32	472.24
<i>of which: pumped storage</i>	2.36	57.27	96.81	103.06	107.35	110.13	110.05	111.12
Geothermal	0.64	4.46	5.39	5.15	6.07	6.25	6.51	6.70
Solar PV	-	0.02	0.76	4.35	37.40	87.44	110.46	132.93
Solar thermal	-	0.34	0.42	0.39	1.21	2.48	3.68	3.97
Tide, wave, ocean	0.24	0.26	0.26	0.26	0.26	0.26	0.52	0.52
Wind	-	2.37	15.39	52.30	134.01	179.69	194.79	213.93
Other (e.g. fuel cells)	-	-	0.20	1.44	1.36	3.41	3.85	4.43
Combustible fuels	760.72	1080.03	1329.88	1565.92	1700.34	1713.58	1706.07	1724.61
<i>of which⁽²⁾:</i>								
<i>Single-fired:</i>								
Coal and Coal products
Liquid fuels
Natural gas
Biofuels & waste
<i>Multi-fired:</i>								
Solid / liquid
Solid / natural gas
Liquid / natural gas
Solid / liquid / gas
<u>Type of generation</u>								
Steam
Internal combustion
Gas turbine
Combined cycle
Other
<u>Peak load</u>
Of which Autoproducers	68.54	127.51	286.06	149.64	181.57	199.98	212.60	224.98
Nuclear	0.55	0.95	0.17	-	-	-	-	-
Hydro	12.13	15.78	10.98	10.48	13.79	14.27	14.32	13.35
<i>of which: pumped storage</i>	-	0.23	0.27	0.14	0.10	0.11	0.11	0.12
Geothermal	-	1.09	0.05	0.05	0.04	0.04	0.04	0.04
Solar PV	-	0.01	0.59	2.13	8.88	23.95	36.05	50.60
Solar thermal	-	0.34	-	-	-	-	0.09	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	1.98	0.65	3.28	4.61	6.19	7.43	8.62
Other (e.g. fuel cells)	-	-	0.03	1.13	0.92	2.65	2.74	2.88
Combustible fuels	55.87	107.36	273.59	132.60	153.32	152.87	151.94	149.49

1. Sum of available capacity figures

2. Breakdown of electrical capacity by type of fuel are shown in the individual country chapters.

OECD Total**Table 8. Capacity factors (%)**

	1974	1990	2000	2005	2010	2012	2013	2014
Total plants¹	52.1 e	50.9 e	54.1 e	50.9 e	47.2 e	45.0 e	44.5 e	43.3 e
Nuclear	52.2	74.0	84.8	85.2 e	83.3 e	72.7 e	74.1 e	74.8
Hydro	65.5	37.2	38.1 e	35.8 e	35.6	35.7	36.0 e	35.4
<i>of which: pumped storage</i>	52.1	13.6	12.7 e	13.4	11.5	10.6	10.4	10.3
Geothermal	124.2	73.2	69.8	83.4	81.8	81.5	80.7	82.4
Solar PV	..	14.5 e	10.9 e	9.5 e	9.4 e	11.4 e	12.0 e	12.6 e
Solar thermal	-	22.3	14.3	17.6	15.5	21.8	18.0	23.4
Tide, wave, ocean	28.4	23.2	23.6 e	22.4	22.0 e	21.1 e	20.2 e	21.8
Wind	..	18.5	21.2 e	20.5 e	22.9	24.2	26.2	26.0 e
Other (e.g. fuel cells)	..	-	64.9	84.3	64.7	27.9 e	33.4	29.4
Combustible fuels	48.9 e	49.9 e	52.5 e	49.2 e	46.3 e	46.4	45.7 e	44.3
Of which autoproducers	61.2 e	59.1 e	27.6 e	55.9 e	47.3 e	44.7 e	41.9 e	39.8 e
Nuclear	88.2	78.0	49.3	-	-	-	-	-
Hydro	68.3	60.4	69.9 e	62.3 e	51.0	53.9	53.7 e	55.2
<i>of which: pumped storage</i>	..	5.4	100.7	44.7	22.8	13.8	15.0	17.4
Geothermal	..	75.6	67.5	64.8	57.6	54.7	57.6	57.1
Solar PV	..	7.6 e	12.0 e	11.9 e	10.8 e	11.1 e	11.4 e	11.6 e
Solar thermal	-	22.5	-	-	-	-	-	-
Tide, wave, ocean	..	-	-	-	11.4	15.2	22.8	7.6
Wind	..	17.9	23.2 e	19.3 e	20.8	20.8	20.7	22.9 e
Other (e.g. fuel cells)	..	-	95.9	94.5	74.5	27.7	27.5	26.4
Combustible fuels	59.4 e	59.4 e	25.9 e	56.6 e	49.7	50.3	49.3	49.1

1. The capacity factor is defined as: the annual gross electricity generation (in GWh) divided by the net capacity (in GW) times 365 (days/year) times 24 (hours/day)

OECD Total**Table 9a. Electricity imports by origin (GWh)**

	1974	1990	2000	2005	2010	2012	2013	2014
Total imports	88709	258539	348506	422913	386443	444448	448866	479315
Total from OECD	39768	212870	333916	385678	351893	419838	407044	436047
Austria	832	6910	16332	21985	20511	24481	21155	20185
Belgium	1206	4488	4452	8008	11826	7069	7756	4186
Canada	15420	20555	48515	42930	43763	57971	62539	59370
Czech Republic	-	2975	18634	24404	21449	28705	27457	28140
Denmark	291	4940	8177	11629	11741	10824	6651	4620
Estonia	-	-	-	-	1967	373	459	32
Finland	495	362	1004	1524	4983	1724	2695	3754
France	2626	55503	77719	66651	48741	55400	58457	73669
Germany	2874	22161	39909	59655	56858	64149	68903	72410
Greece	-	-	-	713	2312	2541	1811	112
Hungary	-	212	843	854	696	337	1023	548
Ireland	-	-	41	1	146	163	217	412
Italy	266	253	476	1147	1217	2374	2433	3110
Luxembourg	-	965	738	2367	1845	1385	702	994
Mexico	-	1951	77	1597	1320	1286	7816	7141
Netherlands	1256	3499	4031	5398	12772	14874	14757	17894
Norway	5895	16413	20486	15692	5776	21133	13675	19494
Poland	-	7878	9658	16110	7514	12560	12124	10804
Portugal	295	1697	3767	2801	3189	2871	4949	6345
Slovak Republic	352	778	8825	8832	5017	10233	8420	9363
Slovenia	-	1363	4554	8522	8066	3960	6098	5664
Spain	1777	3606	5293	10378	9315	13793	11271	9629
Sweden	38	14605	12955	21129	14581	32106	23377	30536
Switzerland	3170	23354	29785	31718	31676	32596	27059	27923
Turkey	-	-	-	-	736	1703	52	1907
United Kingdom	180	45	1234	2837	4870	2237	3313	2878
United States	2795	18357	16411	18796	19006	12990	11875	14927
Total from non-OECD	5256	18244	13101	33202	31585	22012	28853	27434
Albania	73	165	50	15	404	17	1380	105
Azerbaijan	-	-	-	-	156	277	277	102
Belarus	-	-	163	874	-	-	-	-
Bulgaria	-	320	4364	4543	3454	6270	7542	8785
Croatia	-	1	403	7992	6586	2744	5625	4076
F.Y.R. of Macedonia	-	-	-	795	3856	1604	1094	2630
Georgia	-	176	204	101	303	79	3	294
Latvia	-	-	236	345	836	1099	335	108
Lithuania	-	-	-	-	-	-	-	-
Romania	1482	-	-	1187	1252	215	758	1269
Russian Federation	25	4531	4893	11528	11847	4554	4851	3491
Serbia	21	891	612	18	544	78	950	212
Syria	-	-	-	-	-	-	-	-
Turkmenistan	-	-	-	-	-	-	-	-
Ukraine	3655	12160	2176	5804	2347	5075	6038	6362
Non-specified/others	43685	27425	1489	4033	2965	2598	12969	15834

OECD Total**Table 9b. Electricity exports by destination (GWh)**

	1974	1990	2000	2005	2010	2012	2013	2014
Total exports	81188	243561	347931	407271	374803	453523	439015	474721
Total to OECD	42041	211265	332184	386362	351587	418535	392425	424933
Austria	478	7789	15198	23019	22388	26824	28023	28981
Belgium	883	2322	11557	14313	12427	17052	17439	21827
Canada	2726	19936	12685	19332	18482	11392	10675	12861
Czech Republic	-	47	8699	12324	6685	11591	10574	11837
Denmark	433	12106	8571	13035	10260	15754	5396	8280
Estonia	-	-	-	-	246	1530	1544	3523
Finland	2983	6481	8365	7357	3684	14877	12900	18236
France	3087	7019	3676	7986	20463	12048	11701	8060
Germany	2103	24998	45612	52657	40817	43021	36155	37738
Greece	-	-	-	272	67	2032	900	3244
Hungary	-	233	7826	9616	5946	12659	9675	11924
Ireland	-	-	133	2074	378	420	2425	2699
Italy	1149	34226	42078	50683	46326	45839	45225	47147
Luxembourg	1175	4364	6409	5302	5384	5038	5864	5449
Mexico	-	590	1993	471	625	603	678	437
Netherlands	454	12657	21835	23691	15486	32390	32666	33066
Norway	330	407	1231	3434	13258	3295	8660	4045
Poland	-	13	2494	3081	6173	8722	6589	12301
Portugal	349	1734	4698	9630	5823	10768	7726	7247
Slovak Republic	597	4602	5967	7822	6695	13382	10348	12839
Slovenia	-	2089	3307	1349	2136	4725	2311	3238
Spain	679	3209	12271	10366	5191	7789	10211	12300
Sweden	5603	12749	17688	13953	16801	12642	13409	15920
Switzerland	3379	21694	24070	38255	32796	30851	17903	16707
Turkey	-	-	-	-	-	4	1297	4
United Kingdom	231	11925	14768	12475	8583	15000	18751	24691
United States	15402	20075	51053	43865	44467	58287	63380	60332
Total to non-OECD	67	1891	11328	14763	11385	23286	14591	18785
Albania	-	541	1111	1056	491	1480	125	511
Azerbaijan	-	-	437	384	-	13	-	-
Belarus	-	-	-	-	-	-	-	-
Bulgaria	-	573	205	-	-	4	183	-
Croatia	-	-	7079	7702	5690	10699	5498	8019
F.Y.R. of Macedonia	-	-	-	70	8	147	207	19
Georgia	-	122	-	9	-	-	-	1
Latvia	-	-	929	1781	2695	4522	5739	6390
Lithuania	-	-	-	-	-	-	-	-
Romania	-	256	-	146	146	965	525	154
Russian Federation	-	-	374	172	-	-	3	-
Serbia	67	389	1189	1693	392	1295	278	1239
Syria	-	-	-	-	629	1234	-	-
Turkmenistan	-	-	-	-	-	-	-	-
Ukraine	-	10	4	1750	1334	2927	2033	2452
Non-specified/others	39080	30405	4419	6146	11831	11702	31999	31003

OECD Total**Table 10a. Share of electricity in total final consumption (%)**

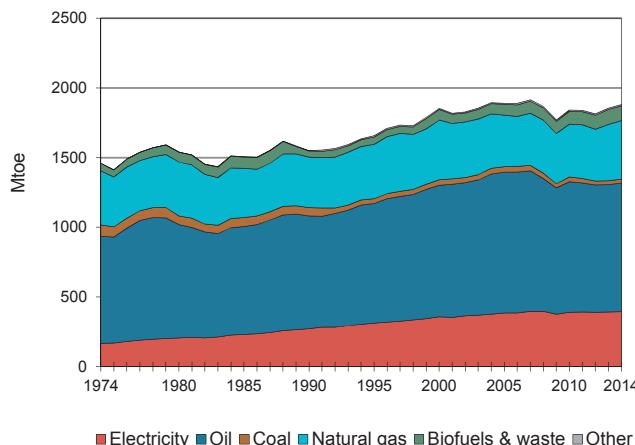
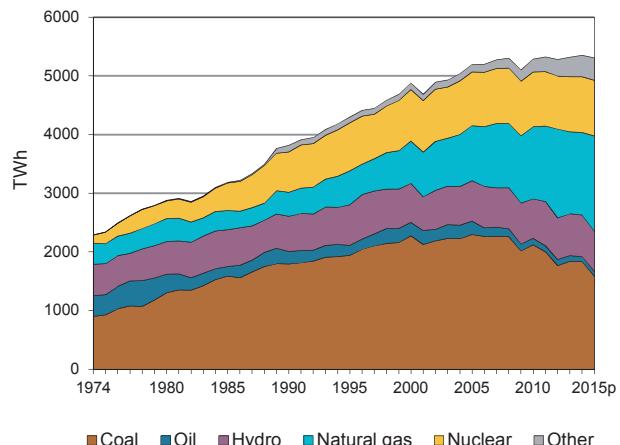
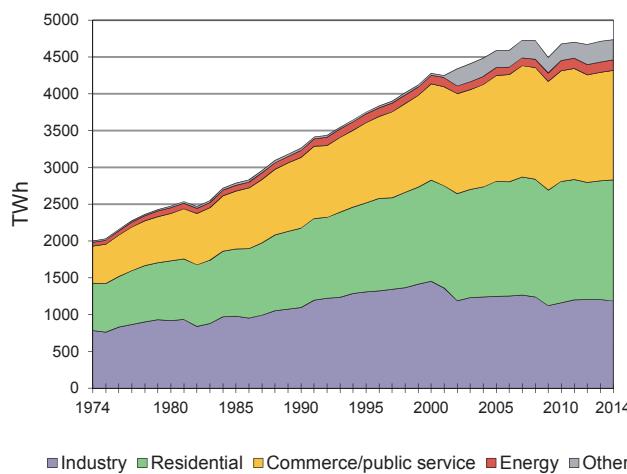
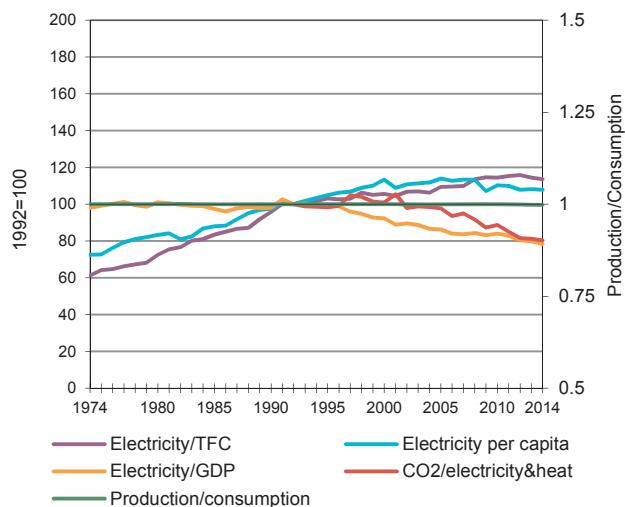
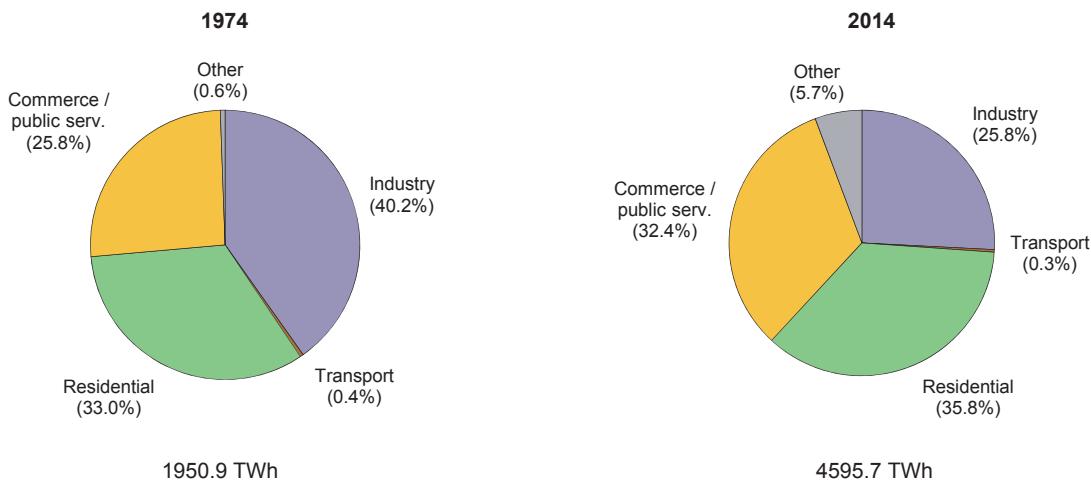
	1974	1990	2000	2005	2010	2012	2013	2014
Share of total final consumption	12.0	17.9	19.8	20.9	21.9	22.3	22.1	22.1
Industry	17.1	27.5	30.6	31.5	31.6	32.2	31.8	31.7
Iron and steel	14.7	23.3	26.1 e	27.9 e	28.3	29.2	29.6 e	29.4
Chem. and petrochemical	32.5	27.1	27.1 e	27.5 e	24.1	24.6 e	23.6	23.8
Non-ferrous metals	64.4	58.8	51.0 e	58.9 e	59.9	61.1	60.0	60.8
Non-metallic minerals	12.0	17.2	16.8	17.0 e	17.8	18.0	17.1	17.1
Transport equipment	42.4	57.7	46.8	52.9 e	56.6	57.0	56.3 e	57.3
Machinery	37.6	55.4	49.6 e	53.7 e	57.6	57.7	57.0 e	57.7
Mining and quarrying	34.4	45.6	47.4	43.6 e	45.7	39.5 e	41.7 e	40.6
Food and tobacco	17.8	30.0	26.0 e	27.6 e	27.8	28.3	28.2 e	28.4
Paper, pulp and printing	23.0	38.0	26.7 e	25.3 e	23.4	23.1	22.5 e	20.4
Wood and wood products	41.9	60.6	31.3	30.7 e	31.6	35.8	35.0 e	35.1
Construction	5.7	12.7	13.8 e	20.2 e	34.3	24.6	25.1	25.1
Textile and leather	30.9	43.7	36.4 e	41.0 e	41.5	43.0	44.2 e	43.8
Non specified/other	4.7	9.5	36.1 e	35.4 e	34.5	37.2 e	37.9 e	38.6
Transport	0.8	0.8	0.8	0.8	0.7	0.7	0.8	0.7
Rail Transport	13.6	25.7	30.1	28.2 e	32.5	26.9	28.3 e	28.2
Pipeline Transport	1.6	1.5	1.9	1.9	1.9	1.8	1.8	1.8
Road	..	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Transport Non Specified	3.4	26.8	58.9	34.6 e	41.9	48.6	61.8	59.6
Other sectors	18.0	30.6	35.7	38.8	41.0	42.5	41.5	42.5
Commercial & publ. serv.	23.8	40.9	48.4	50.3 e	53.1 e	54.0	52.5	52.8
Residential	17.9	28.3	30.8	33.3 e	34.9 e	36.0 e	35.1	36.4
Agriculture	7.6	10.3	11.3	15.7 e	16.2	16.5	16.2	16.3
Fishing	..	1.6	1.6	5.7	7.3	8.6	8.4	9.3
Sector non specified	1.4	3.4	4.9 e	52.8 e	56.4 e	75.5 e	78.4 e	79.6 e

Table 10b. Share of heat in total final consumption (%)

	1974	1990	2000	2005	2010	2012	2013	2014
Share of total final consumption	0.8	1.4	1.4	1.6	1.7	1.7	1.6	1.6
Industry	1.2	1.8	2.0	2.6	3.0	3.0	2.9	3.0
Iron and steel	0.5	0.8	0.4 e	0.3 e	0.5 e	0.6 e	0.6 e	0.6
Chem. and petrochemical	2.7	2.2	4.8 e	6.7 e	7.2 e	7.6 e	7.8 e	7.4
Non-ferrous metals	0.4	0.4	0.4 e	0.5 e	0.9 e	0.7 e	0.6 e	0.5
Non-metallic minerals	0.5	0.5	0.1 e	0.2 e	0.2 e	0.3 e	0.3 e	0.3
Transport equipment	2.8	4.0	1.4 e	3.4 e	4.0 e	3.7 e	3.5 e	3.1
Machinery	3.0	2.5	0.8 e	1.5 e	1.6 e	1.5 e	1.3 e	1.3
Mining and quarrying	5.6	4.8	0.6 e	0.6	1.0	0.6	0.5	0.3
Food and tobacco	3.9	3.1	1.5 e	1.5 e	2.0 e	2.3 e	2.2 e	2.5
Paper, pulp and printing	1.0	1.3	1.1 e	2.0 e	2.6 e	3.1 e	2.9 e	3.0
Wood and wood products	4.2	2.0	1.1 e	1.2 e	3.8 e	4.9 e	4.6 e	3.9
Construction	3.0	2.0	0.3 e	0.3	0.2	0.2	0.2	0.2
Textile and leather	3.1	3.3	3.8 e	5.2 e	5.2 e	5.2 e	4.7 e	4.9
Non specified/other	0.3	1.7	3.4 e	4.7 e	3.9 e	3.5 e	3.2 e	4.3
Transport	..	-						
Other sectors	1.3	2.7	2.7	2.8	3.0	2.8	2.7	2.6
Commercial & publ. serv.	0.4	1.8 e	1.9 e	2.4 e	2.8 e	2.7 e	2.4 e	2.3
Residential	1.6	3.3 e	3.0 e	2.9 e	3.0 e	3.1 e	3.2 e	3.0
Agriculture	1.0	1.9 e	0.8 e	0.5 e	0.4 e	0.4 e	0.4 e	0.4
Fishing	..	0.2 e	0.2 e	0.2 e	0.2 e	0.3 e	0.3 e	0.3
Sector non specified	2.6 e	3.9 e	20.3 e	15.2 e	13.9 e	2.0 e	1.9 e	1.8

Source: IEA/OECD World Energy Balances.

OECD Americas

Figure 1. Total final consumption by fuel**Figure 2. Electricity generation by fuel****Figure 3. Electricity consumption by sector****Figure 4. Electricity indicators****Figure 5. Total final electricity consumption by sector**

OECD Americas**Table 1. Energy consumption, GDP and population**

	1974	1990	2000	2010	2013	2014	2015p	74-00	00-15
TPES (Mtoe)	1917.58	2264.03	2702.13	2685.68	2685.05	2720.15	2678.13	1.3	-0.1
GDP (billion 2005 USD)	6497.70	10772.57	15069.88	17845.30	18907.86	19364.02	19809.42	3.3	1.8
TPES/GDP ¹	0.30	0.21	0.18	0.15	0.14	0.14	0.14	-1.9	-1.9
Population (millions)	305.89	378.12	429.38	475.16	488.03	492.26	496.66	1.3	1.0
TPES/population ²	6.27	5.99	6.29	5.65	5.50	5.53	5.39	0.0	-1.0
TPES/GDP (2005 = 100)	180	128	109	92	87	86	82	-1.9	-1.9
Ele.TFC/GDP(2005=100) ³	114	112	105	97	92	90	..	-0.3	..
Ele.TFC/population ⁴	6380	8379	9699	9553	9372	9339	..	1.6	..
Elec. generated (TWh) ⁵	2291.13	3819.06	4877.23	5286.17	5318.19	5350.49	5305.08	2.9	0.6

Source: IEA/OECD *World Energy Balances* and OECD *Main Economic Indicators*.**Table 2. Total primary energy supply (TPES) by source**

	1974	1990	2000	2010	2013	2014	2015p	74-00	00-15
TPES (Mtoe)	1917.58	2264.03	2702.13	2685.68	2685.05	2720.15	2678.13	1.3	-0.1
Coal	330.07	491.15	575.27	543.52	469.59	470.49	404.69	2.2	-2.3
Oil	902.27	920.62	1057.24	1009.13	981.21	992.18	1000.48	0.6	-0.4
Natural gas	547.49	517.22	662.50	693.22	758.78	776.80	797.61	0.7	1.2
Biofuels & waste	53.21	84.82	100.73	114.46	136.99	136.65	131.88	2.5	1.8
Nuclear	35.64	179.55	229.00	243.79	244.25	247.04	246.59	7.4	0.5
Geothermal	2.63	18.51	18.16	12.07	11.96	12.08	12.33	7.7	-2.5
Solar, wind, tide ⁶	-	0.34	2.15	11.58	20.54	23.55	25.47	-	17.9
Hydro	46.25	51.80	57.05	57.83	61.09	60.71	59.03	0.8	0.2
Net electricity imports ⁷	0.01	0.02	0.03	0.08	0.61	0.61	0.00	5.2	-13.0
Heat	-	-	-	-	0.03	0.05	0.05	-	-

Source: IEA/OECD *World Energy Balances*.

1. In units of toe/2005 thousand US dollars.
2. In units of toe/per capita.
3. Ele.TFC = electricity total final consumption.
4. In units of kWh/per capita.
5. Electricity generated = gross production - amount of electricity produced in pumped storage plants.
6. Includes wave, ocean and other (e.g. fuel cells).
7. Net Imports = total imports - total exports

OECD Americas

Table 3a. Summary electricity production and consumption¹ (TWh)

	1974	1990	2000	2005	2010	2013	2014	2015e
Gross production	2291.24	3834.98	4904.13	5219.28	5310.35	5337.56	5370.65	5325.28
- Own use by power plant	95.76	209.63	266.76	242.12	250.95	246.01	248.87	-
Net production	2195.48	3625.35	4637.37	4977.16	5059.40	5091.55	5121.78	-
- Used for heat pumps	-	-	-	-	-	-	-	-
- Used for electric boilers	-	-	-	-	-	-	-	-
- Used for pumped storage	0.23	22.78	31.95	32.25	29.78	24.15	26.44	25.39
+ Imports	18.22	40.86	66.19	65.48	65.05	82.26	81.44	86.77
- Exports	18.13	40.60	65.86	63.92	64.08	75.17	74.37	86.73
Electrical energy supplied	2195.34	3602.83	4605.76	4946.46	5030.58	5074.49	5102.41	..
- Transmission & distr. losses	193.13	347.73	307.80	362.70	361.91	359.06	359.66	..
- Statistical difference	0.00	-6.44	19.29	-4.24	-8.02	2.70	6.00	..
Total consumption	2002.21	3261.55	4278.66	4588.01	4676.70	4712.73	4736.75	..
Energy industry consumption²	51.27	94.25	115.59	109.05	139.31	140.70	141.04	..
Coal Mines	8.98	15.25	14.00	10.48	13.50	11.72	11.11	..
Oil + Gas Extraction	13.60	40.55	44.93	47.02	52.17	56.39	58.06	..
Patent Fuel Plants	-	-	-	-	-	-	-	..
Coke Ovens	0.05	-	-	0.54	0.53	0.54	0.53	..
BKB plants	-	-	-	-	-	-	-	..
Gas Works	0.02	-	-	-	0.00	0.00	0.00	..
Blast Furnaces	-	-	-	3.45	3.27	3.36	3.31	..
Oil Refineries	28.62	38.44	56.67	44.98	55.14	54.37	53.76	..
Nuclear Industry	-	-	-	-	-	-	-	..
Coal Liquefaction Plants	-	-	-	-	-	-	-	..
LNG/Regasification Plants	-	-	-	-	0.06	0.08	0.02	..
Energy - Non Specified	-	-	-	2.57	14.64	14.24	14.24	..
Final consumption	1950.93	3167.30	4163.07	4478.96	4537.39	4572.03	4595.71	..
Industry	783.58	1098.03	1453.76	1250.27	1160.41	1207.04	1185.85	..
Iron and steel	80.63	89.78	94.13	72.38	59.46	61.49	60.38	..
Chem. and petrochemical	159.79	232.28	288.94	172.81	151.23	134.70	137.58	..
Non-ferrous metals	142.83	93.98	146.43	126.46	93.38	119.31	122.12	..
Non-metallic minerals	33.49	42.72	55.03	59.80	45.15	48.68	49.12	..
Transport equipment	31.15	39.12	61.50	58.26	48.30	54.66	56.04	..
Machinery	54.41	119.78	137.54	126.65	144.37	143.18	143.45	..
Mining and quarrying	35.63	72.37	89.74	64.51	71.12	81.95	82.78	..
Food and tobacco	41.80	60.17	76.96	88.94	84.73	81.84	81.70	..
Paper, pulp and printing	80.97	178.87	200.45	148.62	117.50	106.45	101.03	..
Wood and wood products	21.08	28.75	32.93	28.29	22.99	23.63	24.26	..
Construction	-	0.30	0.40	33.86	56.27	55.33	55.82	..
Textile and leather	38.12	37.34	38.19	31.25	18.07	17.80	17.78	..
Non specified/other	63.69	102.59	231.52	238.44	247.87	278.03	253.79	..
Transport	7.84	8.41	10.26	11.82	11.81	13.58	14.70	..
Rail Transport	4.50	5.14	5.74	7.48	7.94	8.25	8.75	..
Pipeline Transport	2.89	2.41	3.66	3.27	3.07	3.52	3.82	..
Road	-	0.86	0.87	1.07	0.80	1.81	2.12	..
Transport Non Specified	0.45	-	-	-	-	-	-	..
Commercial & publ. serv.	644.18	1078.57	1372.99	1561.03	1650.57	1611.60	1643.83	..
Residential	503.73	958.82	1308.21	1435.33	1503.18	1472.08	1488.58	..
Agriculture	8.76	15.34	17.50	59.36	56.39	49.94	47.09	..
Fishing	-	0.09	0.16	0.12	0.08	0.15	0.10	..
Sector non specified	2.83	8.03	0.18	161.02	154.96	217.65	215.57	..

1. Electricity generation from main activity producer power plants and autoproducers.

2. Energy industry consumption = electricity consumed by transformation industries for heating, traction and lighting purposes;

excludes own use by power plant and electricity used for heat pumps, electric boilers and pumped storage.

OECD Americas**Table 3b. Summary heat production and consumption¹ (TJ)**

	1974	1990	2000	2005	2010	2013	2014	2015e
Gross production	9006	129895	359761	288387	527765	483183	468222	480477
- Own use by power plant	-	-	-	49955	101453	93714	85721	-
Net production	9006	129895	359761	238432	426312	389469	382501	-
- Used for electricity production	-	-	-	-	-	1091	1936	1936
+ Imports	-	-	-	-	-	-	-	-
- Exports	-	-	-	-	-	-	-	-
Heat energy supplied	9006	129895	359761	238432	426312	388378	380565	..
- Transmission & distr. losses	-	11238	48567	29974	61024	53955	51433	..
- Statistical difference	-	2002	2002	-	-	-	-1	..
Total consumption	9006	116655	309192	208458	365288	334423	329133	..
Energy industry consumption²	-	-	54059	33362	67926	60056	57249	..
Coal Mines	-	-	-	-	-	-	-	..
Oil + Gas Extraction	-	-	-	-	-	-	-	..
Patent Fuel Plants	-	-	-	-	-	-	-	..
Coke Ovens	-	-	-	-	-	-	-	..
BKB plants	-	-	-	-	-	-	-	..
Gas Works	-	-	-	-	-	-	-	..
Blast Furnaces	-	-	-	-	-	-	-	..
Oil Refineries	-	-	54059	33362	67926	60056	57249	..
Nuclear Industry	-	-	-	-	-	-	-	..
Coal Liquefaction Plants	-	-	-	-	-	-	-	..
LNG/Regasification Plants	-	-	-	-	-	-	-	..
Energy - Non Specified	-	-	-	-	-	-	-	..
Final consumption	9006	116655	255133	175096	297362	274367	271884	..
Industry	9006	26366	208369	143805	239021	221658	221369	..
Iron and steel	-	-	6413	4016	8124	7183	6850	..
Chem. and petrochemical	9006	18959	113174	75258	144515	132633	126920	..
Non-ferrous metals	-	-	3425	2114	4304	3806	3628	..
Non-metallic minerals	-	-	132	81	164	145	138	..
Transport equipment	-	-	4225	2607	5308	4694	4475	..
Machinery	-	-	3168	1955	3980	3519	3355	..
Mining and quarrying	-	-	-	-	-	-	-	..
Food and tobacco	-	-	19307	12015	24357	21542	20539	..
Paper, pulp and printing	-	3088	32126	29484	22161	20667	19979	..
Wood and wood products	-	-	8889	5486	11168	9874	9412	..
Construction	-	-	-	69	35	33	33	..
Textile and leather	-	-	5108	3152	6418	5674	5409	..
Non specified/other	-	4319	12402	7568	8487	11888	20631	..
Transport	-	-	-	-	-	-	-	..
Commercial & publ. serv.	-	90272	46722	31232	58322	51868	49674	..
Residential	-	2	-	-	-	-	-	..
Agriculture	-	15	42	59	-	-	-	..
Fishing	-	-	-	-	-	-	-	..
Sector non specified	-	-	-	-	19	841	841	..

1. Heat generation from main activity producer power plants and autoproducers.

2. Energy industry consumption = electricity consumed by transformation industries for heating, traction and lighting purposes;

excludes own use by power plant and electricity used for heat pumps, electric boilers and pumped storage.

OECD Americas

Table 4a. Gross electricity production by source (TWh)

	1974	1990	2000	2010	2013	2014	2015e	74-00	00-15
Total plants gross production¹	2291.24	3834.98	4904.13	5310.35	5337.56	5370.65	5325.28 e	3.0	0.6
Nuclear	135.95	687.49	878.74	935.47	937.24	947.94	946.21	7.4	0.5
Hydro	537.92	618.21	690.26	696.64	729.71	726.09	706.59 e	1.0	0.2
- Of which pumped storage	0.11	15.92	26.89	24.18	19.37	20.17	20.19	23.7	-1.9
Geothermal	3.06	21.14	20.52	24.20	24.49	24.71	24.88	7.6	1.3
Solar	-	0.67	0.73 e	4.09 e	17.49 e	27.07 e	29.61 e	-	28.0
Wind	-	3.07	5.93	105.44 e	192.42	214.30 e	231.80 e	-	27.7
Combustible fuels	1614.31	2504.38 e	3307.92 e	3540.63	3429.06	3423.63	3380.96 e	2.8	0.1
- Coal	..	1796.17 e	2274.55 e	2122.89 e	1839.79 e	1837.18	1588.33 e	-	-2.4
- Oil	..	210.95	228.48	109.00	98.26 e	85.44	81.16 e	..	-6.7
- Natural gas	..	405.97	722.34	1227.17	1400.55	1407.13	1621.42 e	..	5.5
- Biofuels & waste	..	91.29	82.55	81.58	90.46	93.88	90.05 e	..	0.6
Other ²	-	0.03	0.03	3.88	7.15	6.91	5.23 e	-	40.5
Of which autoproducers	44.92	277.27	253.71	246.52	279.11	278.92	..	6.9	..
Nuclear	-	0.12	-	-	-	-	..	-	..
Hydro	34.00	38.21	35.88	29.72	35.51	33.29	..	0.2	..
- Of which pumped storage	-	-	-	-	-	-	..	-	..
Geothermal	-	6.92	-	-	-	-	..	-	..
Solar	-	0.66	0.19 e	2.67 e	7.05 e	6.99 e	..	-	-
Wind	-	3.07	0.01	1.09 e	2.51	4.66 e	..	-	..
Combustible fuels	10.92	228.30	217.64 e	209.59	230.19	230.05	..	12.2	-
- Coal	..	27.29 e	55.79 e	25.43 e	19.30 e	18.35	..	-	-
- Oil	..	8.08	12.73	18.32	17.45 e	16.72
- Natural gas	..	103.98	100.83	123.96	144.95	146.67
- Biofuels & waste	..	88.94	48.28	41.88	48.49	48.31
Other ²	-	-	-	3.45	3.85	3.93	..	-	..

Table 4b. Gross heat production by source (PJ)

	1974	1990	2000	2010	2013	2014	2015e	74-00	00-15
Total plants heat generation³	9.01	129.90	359.76 e	527.77	483.18	468.22	480.48 e	15.2	1.9
Nuclear	9.01	16.03	-	-	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-	-	-
Combustible fuels	-	113.87	359.76 e	527.77	482.09	466.29	478.54	-	1.9
- Coal	..	20.00 e	81.57 e	102.69 e	54.11 e	39.20	38.85 e	-	-4.8
- Oil	..	2.94	9.18 e	37.67	29.35	25.47	25.19 e	-	7.0
- Natural gas	..	7.60	239.88 e	338.70	351.64	349.91	366.00 e	-	2.9
- Biofuels & waste	..	2.01	29.13	48.70	47.00	51.71	48.51 e	..	3.5
Chemical processes	-	-	-	-	1.09 e	1.94 e	1.94 e	-	-
Heat pumps	-	-	-	-	-	-	-	-	-
Electric boilers	-	-	-	-	-	-	-	-	-
Other sources	-	-	-	-	-	-	-	-	-
Of which Autoproducers	-	13.65	-	0.02	2.00	2.85	..	-	..
Nuclear	-	-	-	-	-	-	..	-	..
Geothermal	-	-	-	-	-	-	..	-	..
Combustible fuels	-	13.65	-	0.02	0.91	0.91	..	-	..
- Coal	..	13.65 e	-	-	0.02	0.02
- Oil	..	-	-	-	-	-
- Natural gas	..	-	-	-	-	-
- Biofuels & waste	..	-	-	0.02	0.89	0.89
Chemical processes	-	-	-	-	1.09 e	1.94 e	..	-	..
Heat pumps	-	-	-	-	-	-	..	-	..
Electric boilers	-	-	-	-	-	-	..	-	..
Other sources	-	-	-	-	-	-	..	-	..

1. Electricity generated from main activity producer power plants and autoproducers.

2. Includes wave, ocean and other sources (e.g. fuel cells, electricity from chemical heat).

3. Total heat generation = gross production of heat from main activity producer + heat sold in autoproducers.

OECD Americas**Table 5. Net electricity production by autoproducers (GWh)**

	1974	1990	2000	2010	2012	2013	2014	74-00	00-14
Total	11574	261489 e	245555 e	233581 e	266281 e	265777 e	264755 e	12.5	0.5
Total energy	-	-	7192 e	37353	41413	40420	41185	-	13.3
Coal mines	-	-	-	-	-	-	-	-	-
Oil and gas extraction	-	-	855	9607	8757	8918	8895	-	18.2
Patent fuel plants	-	-	-	-	-	-	-	-	-
Coke ovens	-	-	-	-	-	-	-	-	-
Gas works	-	-	-	-	-	-	-	-	-
BKB	-	-	2134	20942	24857	24485	25160	-	19.3
Oil refineries	-	-	-	-	-	-	-	-	-
Energy non specified/other	-	-	-	-	-	-	-	-	-
Total industry	5924	220308	118309 e	171362	180888	188096	185218	12.2	3.3
Iron and steel	-	-	894	734	749	845	1191	-	2.1
Chemical and petrochemical	-	-	3735	62891	64657	67605	65688	-	22.7
Non-ferrous metals	-	-	-	-	-	-	-	-	-
Non-metallic minerals	-	-	-	2925	3085	2849	3137	-	-
Transport equipment	-	-	-	208	232	251	141	-	-
Machinery	-	-	-	43	82	83	65	-	-
Mining and quarrying	-	-	174	4991	5183	4935	6934	-	30.1
Food and tobacco	-	-	1129	7110	7599	7918	7993	-	15.0
Pulp and printing	-	838	1575	43831	45425	47088	45420	-	27.1
Wood and wood products	-	-	-	1356	1502	1477	1405	-	-
Construction	-	-	-	-	-	-	-	-	-
Textile and leather	-	-	250	629	230	277	406	-	3.5
Non specified/other industries	5924	219470	110552 e	46644	52144	54768	52838	11.9	-5.1
Total transport	-	-	-	412	304	459	428	-	-
Rail	-	-	-	2	3	10	8	-	-
Pipeline	-	-	-	-	-	138	130	-	-
Transport non specified	-	-	-	410	301	311	290	-	-
Other	5650	41181	120054	24454	43676	36802	37924	12.5	-7.9
Commerce and pub. services	-	23	717	8494	11186	11702	11551	-	22.0
Residential	-	-	-	103	140	124	142	-	-
Agriculture	-	-	1	259	296	288	326	-	51.2
Fishing	-	-	-	12	34	27	33	-	-
Sector non specified	5650	41158	119336 e	15586 e	32020 e	24661 e	25872 e	12.4	-10.3

Notes: Data reported in this table prior to 1990 may refer to combustible fuels only.

OECD Americas**Table 6a. Electricity production from combustible fuels in electricity plants¹**

	1990	2000	2005	2010	2012	2013	2014	90-00	00-14
Steam coal									
Fuel input (1000 t)	665073 e	862802 e	796670 e	862758	719943	754317	748505	2.6	-1.0
Fuel input (TJ)	16051386 e	20367210 e	17444173 e	19053315 e	15725091 e	16406459 e	16366470	2.4	-1.5
Electricity production (GWh)	1650783 e	2080894 e	1780403 e	1966491 e	1617185 e	1692094 e	1693248	2.3	-1.5
Lignite									
Fuel input (1000 t)	80027	79621	81100 e	72018	74914	72524	70911	-0.1	-0.8
Fuel input (TJ)	1191017 e	1135497 e	1155031	1030388	1076659	1048615	1029280	-0.5	-0.7
Electricity production (GWh)	107619	107153	113262	100795	105020	104568	102563	-0.0	-0.3
Coal manufactured gases²									
Fuel input (TJ)	623	29965	21081	14416	12760	10853	13327	47.3	-5.6
Electricity production (GWh)	51	1635	960	644	669	689	719	41.4	-5.7
Other coal products³									
Fuel input (1000 t)	-	-	116404	-	-	-	-	-	-
Fuel input (TJ)	-	-	3159199	-	-	-	-	-	-
Electricity production (GWh)	-	-	339607	-	-	-	-	-	-
Oil and petroleum products									
Fuel input (1000 t)	48835	53353	51608	23981	22150	22703	19649	0.9	-6.9
Fuel input (TJ)	2194255 e	2309711 e	1965039 e	899870	827734	838622	747228	0.5	-7.7
Electricity production (GWh)	205496	214484	205271 e	93811	89077	85272 e	72405	0.4	-7.5
Natural gas²									
Fuel input (TJ)	3278187	5151182	6264890 e	8451358	10552593 e	9512097	9508962	4.6	4.5
Electricity production (GWh)	306647	500802	714414 e	993161	1260933	1155451	1160338	5.0	6.2
Solid biofuels									
Fuel input (TJ)	258964	215975	256061	256042	276448	283148	335935	-1.8	3.2
Electricity production (GWh)	15368	19532	18242	16726	16522	17703	20303	2.4	0.3
Industrial waste									
Fuel input (TJ)	9138	10421	16649	15141	17873	16805	17238	1.3	3.7
Electricity production (GWh)	749	923	1548	870	1005	912	805	2.1	-1.0
Municipal waste									
Fuel input (TJ)	162000	219034	240322	241385	251201	251185	247016	3.1	0.9
Electricity production (GWh)	9693	14561	15320	14985	15470	15109	14992	4.2	0.2
Biogases and liquid biofuels									
Fuel input (TJ)	30950	58676	71482	107741	128488	141548	158336	6.6	7.3
Electricity production (GWh)	2517	4630	6011	9321	11078	12308	13082	6.3	7.7
Total combustible fuels									
Electricity production (GWh)	2298923 e	2944614 e	3195038 e	3196804 e	3116959 e	3084106 e	3078455	2.5	0.3

1. Excludes CHP plants.

2. Coal manufactured gases and natural gas are expressed on a gross calorific value basis.

3. Includes Coking coal as well as peat and peat products, patent fuels, BKB and shale oil

OECD Americas**Table 6b. Electricity and heat produced for sale from combustible fuels
in combined heat and power plants (CHP plants)**

	1990	2000	2005	2010	2012	2013	2014	90-00	00-14
Steam coal									
Fuel input (1000 t)	11445	30402 e	25436 e	23375	19254	18249	16942	10.3	-4.1
Fuel input (TJ)	302045	788540 e	595268 e	524444 e	400347 e	377386 e	347566	10.1	-5.7
Electricity production (GWh)	35063	75408 e	55185 e	51750 e	40798 e	38424 e	36842	8.0	-5.0
CHP Heat production (TJ)	19742	81572 e	33331 e	95149 e	61483 e	50302 e	39184	15.2	-5.1
Lignite									
Fuel input (1000 t)	1096 e	1246 e	-	-	7	7	7	1.3	-30.9
Fuel input (TJ)	16154 e	18583 e	-	-	102	112	100	1.4	-31.1
Electricity production (GWh)	2651 e	3134 e	-	-	9	10	9	1.7	-34.2
CHP Heat production (TJ)	258 e	-	-	-	-	-	-	-	-
Coal manufactured gases¹									
Fuel input (TJ)	-	83858 e	65596	38442	40970	34837	34219	-	-6.2
Electricity production (GWh)	-	6323	3814	3207	3654	4008	3801	-	-3.6
CHP Heat production (TJ)	-	-	16985	7540	6206	3789	-	-	-
Other coal products²									
Fuel input (1000 t)	-	-	274	-	-	-	-	-	-
Fuel input (TJ)	-	-	6785	-	-	-	-	-	-
Electricity production (GWh)	-	-	1269	-	-	-	-	-	-
CHP Heat production (TJ)	-	-	-	-	-	-	-	-	-
Petroleum products									
Fuel input (1000 t)	77	4032	5933	2964	2682	2625	2677	48.6	-2.9
Fuel input (TJ)	3190	146244	234380	119359	107373	105544	109029	46.6	-2.1
Electricity production (GWh)	5451	13992	23728 e	15186	13287	12990	13036	9.9	-0.5
CHP Heat production (TJ)	2943	9181 e	29596	37673	40168	29347	25465	12.0	7.6
Natural gas¹									
Fuel input (TJ)	1147018	2136077	2381207 e	2131291	2286654 e	2250315	2270420	6.4	0.4
Electricity production (GWh)	99324	221538	226274	234009	251554	245094	246792	8.4	0.8
CHP Heat production (TJ)	7601	239876 e	189224	338703	372881	351638	349911	41.2	2.7
Solid Biofuels									
Fuel input (TJ)	1157395	402284	375107	246418	394830	425968	401502	-10.0	-0.0
Electricity production (GWh)	57969	33015	33617 e	33610	36824	38613	38854	-5.5	1.2
CHP Heat production (TJ)	-	9489	11487	26954	26089	27494	29987	-	8.6
Industrial waste									
Fuel input (TJ)	71583	58985	27922	27133	36783	22749	22190	-1.9	-6.7
Electricity production (GWh)	3961	6247	4200	2725	2698	2371	2093	4.7	-7.5
CHP Heat production (TJ)	-	187	2061	3807	7137	4904	4938	-	26.3
Municipal waste									
Fuel input (TJ)	13083	40737	36266	31489	26684	26687	30148	12.0	-2.1
Electricity production (GWh)	1037	2319	1887	1850	1718	1647	1864	8.4	-1.5
CHP Heat production (TJ)	633	15884	3668	12063	9356	9283	11342	38.0	-2.4
Biogases and liquid biofuels									
Fuel input (TJ)	-	12790	15829	16702	19767	18580	20483	-	3.4
Electricity production (GWh)	-	1325	1221	1489	1695	1799	1888	-	2.6
CHP Heat production (TJ)	-	2191	409	1921	2752	1018	1142	-	-4.5
Total combustible fuels									
Electricity production (GWh)	205456 e	363301 e	351195 e	343826 e	352237 e	344956 e	345179	5.9	-0.4
CHP Heat production (TJ)	31177 e	358380 e	286761 e	523810 e	526072 e	477775 e	461969	27.7	1.8

1. Coal manufactured gases and natural gas are expressed on a gross calorific value basis.

2. Includes Coking coal as well as peat and peat products, patent fuels, BKB and shale oil

OECD Americas**Table 6c. Heat produced for sale from combustible fuels in heat plants¹**

	1990	2000	2005	2010	2012	2013	2014	90-00	00-14
Steam coal									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Heat production (TJ)	-	-	-	-	-	-	-	-	-
Lignite									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Heat production (TJ)	-	-	-	-	-	-	-	-	-
Coal manufactured gases²									
Fuel input (TJ)	-	-	-	-	-	43	42	-	-
Heat production (TJ)	-	-	-	-	-	18	18	-	-
Other coal products³									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Heat production (TJ)	-	-	-	-	-	-	-	-	-
Petroleum products									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Heat production (TJ)	-	-	-	-	-	-	-	-	-
Natural gas²									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Heat production (TJ)	-	-	-	-	-	-	-	-	-
Solid biofuels									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Heat production (TJ)	-	-	-	-	-	-	-	-	-
Industrial waste									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Heat production (TJ)	-	-	-	-	-	-	-	-	-
Municipal waste									
Fuel input (TJ)	2629	2629	2536	2591	2905	4237	4237	-	3.5
Heat production (TJ)	1381	1381	1381	1411	1582	2307	2307	-	3.7
Biogases and liquid biofuels									
Fuel input (TJ)	-	-	453	4712	3951	3688	3688	-	-
Heat production (TJ)	-	-	245	2544	2133	1992	1992	-	-
Total combustible fuels									
Heat production (TJ)	1381	1381	1626	3955	3715	4317	4317	-	8.5

1. Excludes CHP plants

2. Coal manufactured gases and natural gas are expressed on a gross calorific value basis.

3. Includes Coking coal as well as peat and peat products, patent fuels, BKB and shale oil

OECD Americas**Table 7. Net maximum electricity generating capacity on 31 December (GW)**

	1974	1990	2000	2005	2010	2012	2013	2014
Total capacity¹	487.54	870.20	972.91	1166.83	1251.00	1280.67	1281.80	1300.42
Nuclear	34.33	113.86	109.84	114.70	115.20	116.66	114.67	114.00
Hydro	40.33	162.26	179.09	186.69	193.17	194.26	194.85	196.54
<i>of which: pumped storage</i>	-	0.19	26.75	30.17	31.00	31.17	31.19	31.29
Geothermal	0.08	3.37	3.65	3.25	3.37	3.42	3.43	3.33
Solar PV	-	-	0.20	0.53	3.16	8.96	13.05	17.06
Solar thermal	-	0.34	0.42	0.39	0.47	0.48	1.37	1.67
Tide, wave, ocean	-	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Wind	-	1.92	2.49	9.40	43.78	67.29	70.20	77.23
Other (e.g. fuel cells)	-	-	-	0.48	0.37	1.26	1.54	2.01
Combustible fuels	412.81	588.44	677.21	851.39	891.47	888.33	882.66	888.57
<i>of which⁽²⁾:</i>								
<i>Single-fired:</i>								
Coal and Coal products
Liquid fuels
Natural gas
Biofuels & waste
<i>Multi-fired:</i>								
Solid / liquid
Solid / natural gas
Liquid / natural gas
Solid / liquid / gas
<u>Type of generation</u>								
Steam
Internal combustion
Gas turbine
Combined cycle
Other
<u>Peak load</u>
Of which Autoproducers	7.42	52.51	197.18	46.53	53.02	59.79	58.66	59.76
Nuclear	-	0.02	-	-	-	-	-	-
Hydro	4.43	5.89	5.45	5.44	5.63	5.97	6.20	5.83
<i>of which: pumped storage</i>	-	-	-	-	-	-	-	0.01
Geothermal	-	1.06	-	-	-	-	-	-
Solar PV	-	-	0.19	0.50	2.55	5.60	6.69	6.56
Solar thermal	-	0.34	-	-	-	-	0.09	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	1.91	0.02	0.02	0.45	1.27	1.65	2.12
Other (e.g. fuel cells)	-	-	-	0.44	0.37	0.94	0.92	1.05
Combustible fuels	2.98	43.29	191.54	40.13	44.03	46.01	43.13	44.20

1. Sum of available capacity figures

2. Breakdown of electrical capacity by type of fuel are shown in the individual country chapters.

OECD Americas**Table 8. Capacity factors (%)**

	1974	1990	2000	2005	2010	2012	2013	2014
Total plants¹	53.7	50.3 e	57.5 e	51.1 e	48.5 e	47.3 e	47.5 e	47.2 e
Nuclear	45.2	68.9	91.3	90.9	92.7	88.5	93.3	94.9
Hydro	152.3	43.5	44.0	43.7	41.2	42.9	42.8	42.2
<i>of which: pumped storage</i>	-	977.0	19.7	16.3	14.8	12.1	11.7	12.2
Geothermal	466.2	71.6	64.2	84.7	82.0	80.0	81.5	84.8
Solar PV	-	- e	11.9 e	11.9 e	11.6 e	12.2 e	14.4 e	16.3 e
Solar thermal	-	22.3	14.3	17.5	21.3	23.0	8.4	18.4
Tide, wave, ocean	-	14.8	18.3 e	16.0	16.0	15.4	8.6	9.1
Wind	-	18.3	27.2	23.6	27.5	26.7	31.3	31.7 e
Other (e.g. fuel cells)	-	-	-	15.5	118.3	37.6	51.6	37.5
Combustible fuels	44.6	48.6 e	55.8 e	47.6 e	45.3	44.6	44.4	44.0
Of which autoproducers	69.2	60.3 e	14.7 e	59.4 e	53.1 e	53.4 e	54.3 e	53.3 e
Nuclear	-	69.7	-	-	-	-	-	-
Hydro	87.6	74.0	75.2	74.6	60.3	67.2	65.4	65.1
<i>of which: pumped storage</i>	-	-	-	-	-	-	-	-
Geothermal	-	74.8	-	-	-	-	-	-
Solar PV	-	- e	11.5 e	11.8 e	12.0 e	12.0 e	12.0 e	12.2 e
Solar thermal	-	22.5	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	18.3	8.4	10.7	27.9	18.4	17.4	25.1 e
Other (e.g. fuel cells)	-	-	-	16.8	106.0	43.8	47.8	42.7
Combustible fuels	41.8	60.2 e	13.0 e	58.4 e	54.3	57.9	60.9	59.4

1. The capacity factor is defined as: the annual gross electricity generation (in GWh) divided by the net capacity (in GW) times 365 (days/year) times 24 (hours/day)

OECD Americas**Table 9a. Electricity imports by origin (GWh)**

	1974	1990	2000	2005	2010	2012	2013	2014
Total imports	18215	40863	66193	65475	65047	72275	82259	81443
Total from OECD	18215	40863	65003	63323	64089	72247	82230	81438
Austria	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-
Canada	15420	20555	48515	42930	43763	57971	62539	59370
Czech Republic	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-
Greece	-	-	-	-	-	-	-	-
Hungary	-	-	-	-	-	-	-	-
Ireland	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-
Luxembourg	-	-	-	-	-	-	-	-
Mexico	-	1951	77	1597	1320	1286	7816	7141
Netherlands	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-
Poland	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-
Slovak Republic	-	-	-	-	-	-	-	-
Slovenia	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-
Switzerland	-	-	-	-	-	-	-	-
Turkey	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-
United States	2795	18357	16411	18796	19006	12990	11875	14927
Total from non-OECD	-							
Albania	-	-	-	-	-	-	-	-
Azerbaijan	-	-	-	-	-	-	-	-
Belarus	-	-	-	-	-	-	-	-
Bulgaria	-	-	-	-	-	-	-	-
Croatia	-	-	-	-	-	-	-	-
F.Y.R. of Macedonia	-	-	-	-	-	-	-	-
Georgia	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-
Romania	-	-	-	-	-	-	-	-
Russian Federation	-	-	-	-	-	-	-	-
Serbia	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-
Turkmenistan	-	-	-	-	-	-	-	-
Ukraine	-	-	-	-	-	-	-	-
Non-specified/others	-	-	1190	2152	958	28	29	5

OECD Americas**Table 9b. Electricity exports by destination (GWh)**

	1974	1990	2000	2005	2010	2012	2013	2014
Total exports	18128	40601	65856	63923	64082	70750	75171	74372
Total to OECD	18128	40601	65731	63668	63574	70282	74733	73630
Austria	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-
Canada	2726	19936	12685	19332	18482	11392	10675	12861
Czech Republic	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-
Greece	-	-	-	-	-	-	-	-
Hungary	-	-	-	-	-	-	-	-
Ireland	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-
Luxembourg	-	-	-	-	-	-	-	-
Mexico	-	590	1993	471	625	603	678	437
Netherlands	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-
Poland	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-
Slovak Republic	-	-	-	-	-	-	-	-
Slovenia	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-
Switzerland	-	-	-	-	-	-	-	-
Turkey	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-
United States	15402	20075	51053	43865	44467	58287	63380	60332
Total to non-OECD	-	-	-	-	-	-	-	-
Albania	-	-	-	-	-	-	-	-
Azerbaijan	-	-	-	-	-	-	-	-
Belarus	-	-	-	-	-	-	-	-
Bulgaria	-	-	-	-	-	-	-	-
Croatia	-	-	-	-	-	-	-	-
F.Y.R. of Macedonia	-	-	-	-	-	-	-	-
Georgia	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-
Romania	-	-	-	-	-	-	-	-
Russian Federation	-	-	-	-	-	-	-	-
Serbia	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-
Turkmenistan	-	-	-	-	-	-	-	-
Ukraine	-	-	-	-	-	-	-	-
Non-specified/others	-	-	125	255	508	468	438	742

OECD Americas**Table 10a. Share of electricity in total final consumption (%)**

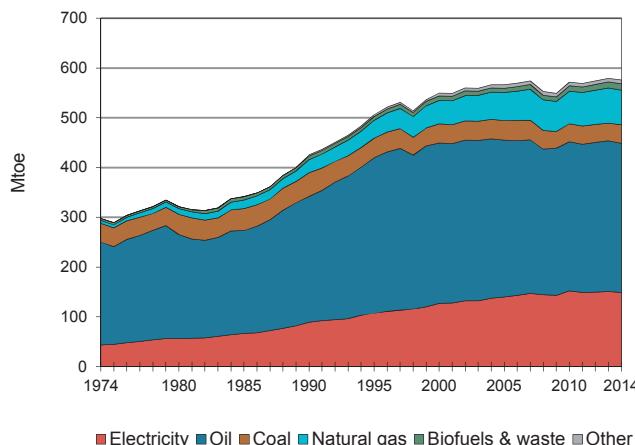
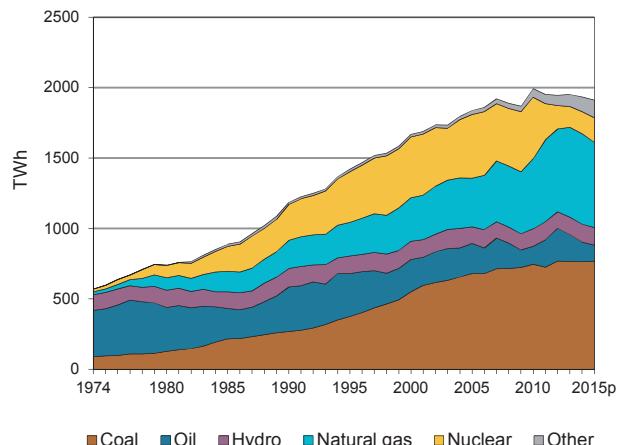
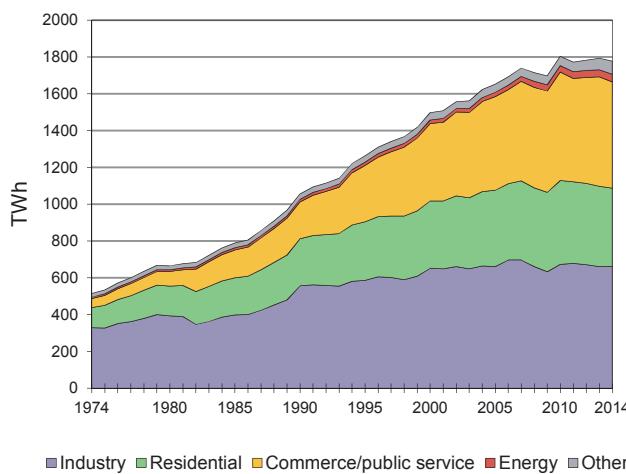
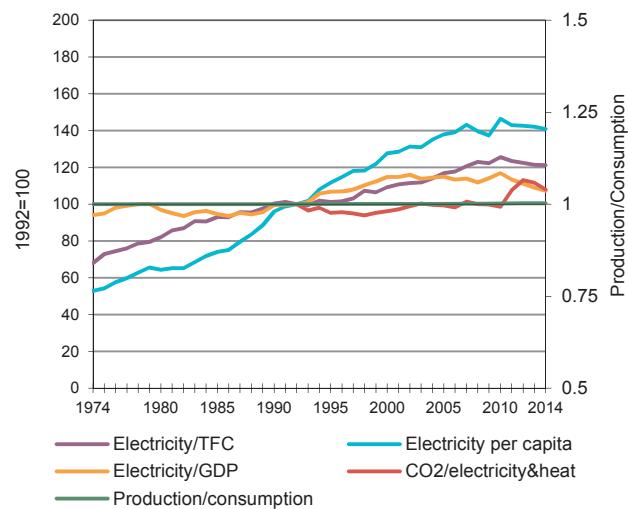
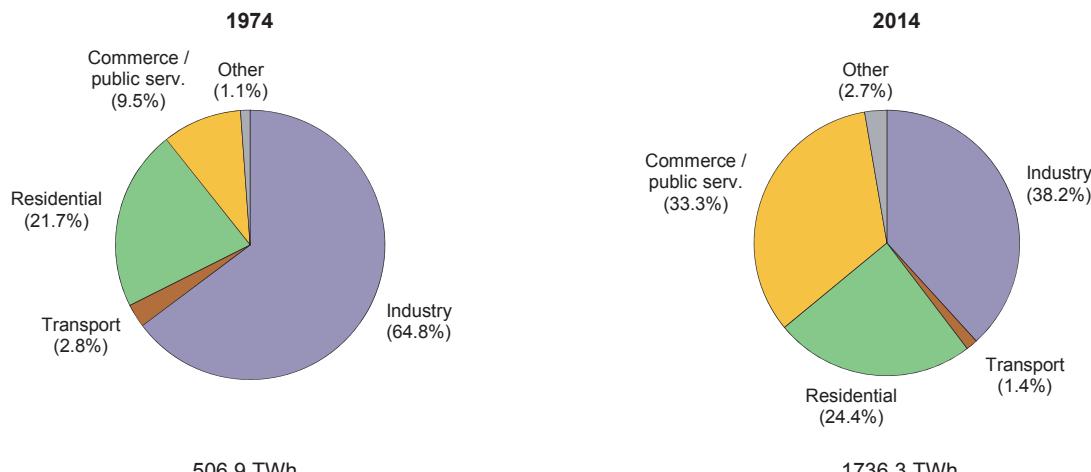
	1974	1990	2000	2005	2010	2012	2013	2014
Share of total final consumption	11.5	17.6	19.3	20.4	21.2	21.5	21.2	21.0
Industry	15.3	26.2	29.6	29.3	28.2	29.1	28.8	28.3
Iron and steel	13.8	28.3	21.6	23.9	20.5	22.1	20.9	20.3
Chem. and petrochemical	55.5	25.0	23.8	22.4	16.5	17.2	16.7	16.9
Non-ferrous metals	87.3	76.2	50.2	65.5	63.8	69.3	68.9	68.8
Non-metallic minerals	31.8	24.2	15.7	16.2	15.4	16.4	16.5	16.2
Transport equipment	56.8	77.3	39.4	48.0	50.1	51.0	50.6	50.2
Machinery	85.2	89.6	47.5	51.8	55.0	52.8	50.5	50.3
Mining and quarrying	55.5	57.6	52.4	45.4	46.8	39.3	42.3	41.5
Food and tobacco	39.3	40.8	22.1	23.2	22.3	23.6	22.0	22.0
Paper, pulp and printing	21.2	44.1	22.3	18.7	16.3	15.4	15.2	14.3
Wood and wood products	74.7	88.9	20.8	20.2	23.3	31.8	32.7	32.8
Construction	-	1.0	1.8	24.4	57.7	32.3	28.6	29.3
Textile and leather	85.6	85.2	37.9	46.9	50.2	52.9	52.7	52.4
Non specified/other	2.0	6.1	49.4 e	39.6	39.3	41.9	41.9	40.5
Transport	0.2	0.1	0.1	0.1	0.1	0.2	0.2	0.2
Rail Transport	2.2	3.3	3.8	4.2	5.8	4.3	4.5 e	4.9
Pipeline Transport	1.6	1.1	1.6	1.6	1.4	1.4	1.3	1.4
Road	-	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Transport Non Specified	0.9	-	-	-	-	-	-	-
Other sectors	21.3	36.7	41.0	45.7	47.6	49.2	47.0	46.5
Commercial & publ. serv.	26.4	45.1	50.2	52.9	54.2	55.6	53.5	52.5
Residential	20.9	35.7	36.9	41.0	43.6	44.8	42.4	42.2
Agriculture	4.3	6.6	7.1	16.8	15.7	14.7	13.9	13.4
Fishing	-	6.2	7.1	7.9	2.3	3.9	5.6	4.2
Sector non specified	1.2	3.4	1.0 e	100.0 e	99.7 e	99.7 e	99.7 e	99.7 e

Table 10b. Share of heat in total final consumption (%)

	1974	1990	2000	2005	2010	2012	2013	2014
Share of total final consumption	0.0	0.2	0.3	0.2	0.4	0.4	0.4	0.4
Industry	0.1	0.2	1.2	0.9	1.6	1.6	1.5	1.5
Iron and steel	-	-	0.4 e	0.4 e	0.8 e	0.8 e	0.7 e	0.6
Chem. and petrochemical	0.9	0.6	2.6 e	2.7 e	4.4 e	4.7 e	4.6 e	4.3
Non-ferrous metals	-	-	0.3 e	0.3 e	0.8 e	0.7 e	0.6 e	0.6
Non-metallic minerals	-	-	0.0 e	0.0				
Transport equipment	-	-	0.8 e	0.6 e	1.5 e	1.4 e	1.2 e	1.1
Machinery	-	-	0.3 e	0.2 e	0.4 e	0.4 e	0.3 e	0.3
Mining and quarrying	-	-	-	-	-	-	-	-
Food and tobacco	-	-	1.5 e	0.9 e	1.8 e	1.9 e	1.6 e	1.5
Paper, pulp and printing	-	0.2	1.0 e	1.0 e	0.9 e	0.9 e	0.8 e	0.8
Wood and wood products	-	-	1.6 e	1.1 e	3.1 e	4.3 e	3.8 e	3.5
Construction	-	-	-	0.0	0.0	0.0	-	-
Textile and leather	-	-	1.4 e	1.3 e	5.0 e	5.2 e	4.7 e	4.4
Non specified/other	-	0.1	0.7 e	0.4 e	0.4 e	0.7 e	0.5 e	0.9
Transport	-	-	-	-	-	-	-	-
Other sectors	-	0.5	0.2	0.1	0.2	0.2	0.2	0.2
Commercial & publ. serv.	-	1.2 e	0.5 e	0.3 e	0.6 e	0.6 e	0.5 e	0.5
Residential	-	-	-	-	-	-	-	-
Agriculture	-	-	-	- e	-	-	-	-
Fishing	-	-	-	-	-	-	-	-
Sector non specified	-	-	-	-	-	0.1	0.1	0.1

Source: IEA/OECD World Energy Balances.

OECD Asia Oceania

Figure 1. Total final consumption by fuel**Figure 2. Electricity generation by fuel****Figure 3. Electricity consumption by sector****Figure 4. Electricity indicators****Figure 5. Total final electricity consumption by sector**

OECD Asia Oceania**Table 1. Energy consumption, GDP and population**

	1974	1990	2000	2010	2013	2014	2015p	74-00	00-15
TPES (Mtoe)	419.06	642.29	849.59	917.84	887.48	878.65	886.38	2.8	0.3
GDP (billion 2005 USD)	2898.91	5766.65	7039.12	8267.33	8664.81	8746.01	8852.85	3.5	1.5
TPES/GDP ¹	0.14	0.11	0.12	0.11	0.10	0.10	0.10	-0.7	-1.2
Population (millions)	165.34	191.68	203.13	211.58	213.34	213.85	214.35	0.8	0.4
TPES/population ²	2.53	3.35	4.18	4.34	4.16	4.11	4.14	1.9	-0.1
TPES/GDP (2005 = 100)	128	98	107	98	90	89	88	-0.7	-1.2
Ele.TFC/GDP(2005=100) ³	83	86	100	102	96	95	..	0.7	..
Ele.TFC/population ⁴	3067	5433	7276	8363	8231	8122	..	3.4	..
Elec. generated (TWh) ⁵	571.40	1185.38	1668.39	1992.27	1950.90	1934.03	1911.91	4.2	0.9

Source: IEA/OECD *World Energy Balances* and OECD *Main Economic Indicators*.**Table 2. Total primary energy supply (TPES) by source**

	1974	1990	2000	2010	2013	2014	2015p	74-00	00-15
TPES (Mtoe)	419.06	642.29	849.59	917.84	887.48	878.65	886.38	2.8	0.3
Coal	93.45	140.45	194.83	247.76	251.96	249.62	258.19	2.9	1.9
Oil	294.62	343.69	405.35	355.87	359.24	347.69	349.63	1.2	-1.0
Natural gas	10.96	65.57	106.99	161.20	193.87	193.29	183.81	9.2	3.7
Biofuels & waste	4.08	9.97	12.25	19.25	21.72	23.00	24.14	4.3	4.6
Nuclear	5.13	66.50	112.32	113.84	38.59	40.76	45.40	12.6	-5.9
Geothermal	1.20	3.05	5.05	6.13	6.74	7.28	7.27	5.7	2.5
Solar, wind, tide ⁶	0.00	1.87	1.73	3.37	5.03	6.39	7.55	28.4	10.3
Hydro	9.63	11.23	11.19	10.68	10.63	10.95	10.81	0.6	-0.2
Net electricity imports ⁷	-0.01	-0.04	-0.13	-0.34	-0.40	-0.42	-0.42	12.3	8.3
Heat	-	-	-	0.09	0.09	0.09	-	-	-

Source: IEA/OECD *World Energy Balances*.

1. In units of toe/2005 thousand US dollars.
2. In units of toe/per capita.
3. Ele.TFC = electricity total final consumption.
4. In units of kWh/per capita.
5. Electricity generated = gross production - amount of electricity produced in pumped storage plants.
6. Includes wave, ocean and other (e.g. fuel cells).
7. Net Imports = total imports - total exports

OECD Asia Oceania

Table 3a. Summary electricity production and consumption¹ (TWh)

	1974	1990	2000	2005	2010	2013	2014	2015e
Gross production	573.91	1195.05	1681.93	1848.86	2003.57	1961.93	1944.27	1921.74
- Own use by power plant	22.85	44.37	63.87	79.19	83.06	75.28	72.86	-
Net production	551.06	1150.68	1618.06	1769.67	1920.51	1886.65	1871.42	-
- Used for heat pumps	-	-	-	-	-	-	-	-
- Used for electric boilers	-	0.34	1.10	1.15	1.15	1.08	1.08	1.00
- Used for pumped storage	2.67	13.41	17.45	15.96	13.58	13.43	13.57	10.92
+ Imports	-	-	-	-	-	-	-	-
- Exports	0.07	0.46	1.46	1.67	3.97	4.68	4.84	4.84
Electrical energy supplied	548.32	1136.48	1598.06	1750.89	1901.82	1867.47	1851.93	..
- Transmission & distr. losses	33.04	57.27	78.86	81.64	86.27	84.61	80.14	..
- Statistical difference	-0.01	23.49	21.79	17.26	11.85	-10.70	-5.09	..
Total consumption	515.29	1055.72	1497.41	1652.00	1803.71	1793.55	1776.89	..
Energy industry consumption²	8.41	14.57	19.88	23.11	34.92	38.07	40.56	..
Coal Mines	2.59	2.97	4.26	5.04	5.45	6.12	6.58	..
Oil + Gas Extraction	0.12	0.82	1.20	2.20	3.12	3.46	4.94	..
Patent Fuel Plants	-	-	-	-	-	-	-	..
Coke Ovens	0.16	1.11	1.28	1.22	1.79	1.96	1.87	..
BKB plants	0.08	0.04	0.06	0.25	0.15	0.05	0.04	..
Gas Works	0.03	0.02	0.01	0.00	0.00	0.03	0.05	..
Blast Furnaces	-	-	-	0.04	0.07	0.14	0.14	..
Oil Refineries	5.44	8.55	11.99	13.38	23.25	24.93	25.54	..
Nuclear Industry	-	-	-	-	-	-	-	..
Coal Liquefaction Plants	-	-	-	-	-	-	-	..
LNG/Regasification Plants	-	1.02	0.91	0.77	0.83	0.93	0.93	..
Energy - Non Specified	-	0.05	0.16	0.21	0.27	0.45	0.47	..
Final consumption	506.89	1041.14	1477.53	1628.88	1768.79	1755.49	1736.33	..
Industry	328.31	556.55	651.79	661.30	673.86	660.51	663.80	..
Iron and steel	80.01	86.03	109.77	117.18	121.72	124.43	125.60	..
Chem. and petrochemical	53.45	82.69	107.68	108.86	104.23	101.10	101.10	..
Non-ferrous metals	35.23	43.80	53.28	56.01	67.02	62.32	61.29	..
Non-metallic minerals	16.25	43.64	44.95	42.51	41.28	38.71	38.32	..
Transport equipment	10.16	24.35	39.12	44.26	45.34	46.09	46.96	..
Machinery	10.34	92.39	91.45	104.90	113.23	118.14	118.51	..
Mining and quarrying	5.32	11.77	14.15	13.07	17.01	21.44	22.95	..
Food and tobacco	8.63	36.27	46.69	45.91	46.34	43.21	43.93	..
Paper, pulp and printing	22.29	47.97	57.61	54.06	48.36	45.36	44.12	..
Wood and wood products	2.08	33.79	30.79	22.93	21.90	19.67	19.77	..
Construction	0.09	10.87	9.90	8.40	10.56	7.38	7.51	..
Textile and leather	9.35	24.17	26.90	21.04	19.66	17.06	16.50	..
Non specified/other	75.12	18.82	19.51	22.17	17.20	15.61	17.24	..
Transport	14.32	19.24	22.60	25.18	24.69	24.87	24.66	..
Rail Transport	14.32	19.19	22.15	23.96	23.05	22.52	22.36	..
Pipeline Transport	-	-	0.00	0.00	0.05	0.35	0.23	..
Road	-	-	-	-	-	-	-	..
Transport Non Specified	-	0.06	0.45	1.22	1.59	2.00	2.07	..
Commercial & publ. serv.	110.06	255.93	366.55	414.66	455.22	437.70	423.24	..
Residential	48.37	199.93	419.39	508.97	589.85	593.50	577.99	..
Agriculture	2.82	6.71	12.48	12.16	15.93	19.52	20.07	..
Fishing	-	0.50	0.44	2.09	2.56	2.84	3.20	..
Sector non specified	3.01	2.27	4.29	4.52	6.69	16.55	23.37	..

1. Electricity generation from main activity producer power plants and autoproducers.

2. Energy industry consumption = electricity consumed by transformation industries for heating, traction and lighting purposes;

excludes own use by power plant and electricity used for heat pumps, electric boilers and pumped storage.

OECD Asia Oceania

Table 3b. Summary heat production and consumption¹ (TJ)

	1974	1990	2000	2005	2010	2013	2014	2015e
Gross production	6879	12343	165165	220631	218251	223633	230346	228815
- Own use by power plant	-	103	812	1113	1138	2529	4168	-
Net production	6879	12240	164353	219518	217113	221104	226178	-
- Used for electricity production	-	1610	1610	2449	3126	2410	850	1316
+ Imports	-	-	-	-	-	-	-	-
- Exports	-	-	-	-	-	-	-	-
Heat energy supplied	6879	10630	162743	217069	213987	218694	225328	..
- Transmission & distr. losses	-	-	2258	3741	2162	2870	2966	..
- Statistical difference	-	-	1	-11	2546	13056	7177	..
Total consumption	6879	10630	160484	213339	209279	202768	215185	..
Energy industry consumption²	5012	2269	-	-	3479	1672	1438	..
Coal Mines	-	-	-	-	-	-	-	..
Oil + Gas Extraction	-	-	-	-	-	-	-	..
Patent Fuel Plants	-	-	-	-	-	-	-	..
Coke Ovens	-	-	-	-	-	-	-	..
BKB plants	-	-	-	-	-	-	-	..
Gas Works	-	-	-	-	-	-	-	..
Blast Furnaces	-	-	-	-	-	-	-	..
Oil Refineries	-	-	-	-	3479	1672	1438	..
Nuclear Industry	-	-	-	-	-	-	-	..
Coal Liquefaction Plants	-	-	-	-	-	-	-	..
LNG/Regasification Plants	-	-	-	-	-	-	-	..
Energy - Non Specified	5012	2269	-	-	-	-	-	..
Final consumption	1867	8361	160484	213339	205800	201096	213747	..
Industry	-	-	88980	119114	97895	88910	105177	..
Iron and steel	-	-	-	-	44	340	1187	..
Chem. and petrochemical	-	-	44074	77347	61076	57301	67448	..
Non-ferrous metals	-	-	1788	1076	181	102	258	..
Non-metallic minerals	-	-	-	-	7	26	273	..
Transport equipment	-	-	-	-	-	17	11	..
Machinery	-	-	3517	3136	2905	1722	1971	..
Mining and quarrying	-	-	-	-	-	-	-	..
Food and tobacco	-	-	1746	1055	3173	4262	5655	..
Paper, pulp and printing	-	-	7367	7088	9644	9008	10806	..
Wood and wood products	-	-	-	-	329	312	340	..
Construction	-	-	-	-	-	-	19	..
Textile and leather	-	-	30488	29412	18891	15048	16629	..
Non specified/other	-	-	-	-	1645	772	580	..
Transport	-	-	-	-	-	-	-	..
Commercial & publ. serv.	1867	7077	25367	32219	32995	33561	35006	..
Residential	-	1284	46137	62006	74910	78625	73564	..
Agriculture	-	-	-	-	-	-	-	..
Fishing	-	-	-	-	-	-	-	..
Sector non specified	-	-	-	-	-	-	-	..

1. Heat generation from main activity producer power plants and autoproducers.

2. Energy industry consumption = electricity consumed by transformation industries for heating, traction and lighting purposes;

excludes own use by power plant and electricity used for heat pumps, electric boilers and pumped storage.

OECD Asia Oceania

Table 4a. Gross electricity production by source (TWh)

	1974	1990	2000	2010	2013	2014	2015e	74-00	00-15
Total plants gross production¹	573.91 e	1195.05 e	1681.93 e	2003.57	1961.93	1944.27	1921.74 e	4.2	0.9
Nuclear	19.70	255.16	431.01	436.83	148.09	156.41	174.20	12.6	-5.9
Hydro	114.50	140.26	143.61	135.45	134.66	137.53	135.52 e	0.9	-0.4
- Of which pumped storage	2.51	9.68	13.54	11.31	11.03	10.25	9.82	6.7	-2.1
Geothermal	1.39	3.87	6.27	8.53	9.01	9.84	10.41	6.0	3.4
Solar	-	0.00 e	0.39 e	5.07 e	20.21 e	32.78 e	46.04 e	-	37.4
Wind	-	-	0.30 e	11.47	15.43	18.66	19.71 e	-	32.1
Combustible fuels	438.32 e	795.69	1100.28 e	1405.78	1633.29	1587.54	1534.27 e	3.6	2.2
- Coal	..	267.98	550.31 e	745.43	765.28	764.28	768.00 e	-	2.2
- Oil	..	316.58 e	228.98 e	127.33 e	190.27 e	139.15 e	113.06 e	-	-4.6
- Natural gas	..	200.32	308.93 e	498.25	638.57	642.23	605.76 e	-	4.6
- Biofuels & waste	..	10.82	12.06 e	34.78	39.17 e	41.89 e	47.45 e	-	9.6
Other ²	-	0.07	0.07	0.44	1.24 e	1.53 e	1.60 e	-	23.5
Of which autoproducers	68.74 e	137.75 e	198.33 e	216.07	223.14	238.53	..	4.2	-
Nuclear	-	0.87	0.71	-	-	-	..	-	..
Hydro	6.17	7.09	7.49	16.52	16.34	16.71	..	0.7	..
- Of which pumped storage	-	-	-	-	-	-	..	-	..
Geothermal	-	0.31	0.27	0.22	0.22	0.22	..	-	..
Solar	-	0.00 e	0.39 e	4.38 e	18.80 e	30.54 e	..	-	-
Wind	-	-	0.12 e	3.93	4.25	5.02	..	-	-
Combustible fuels	62.57 e	129.41	189.28 e	190.79	183.34	185.94	..	4.3	-
- Coal	..	31.52	56.70 e	64.76	65.40	65.78	..	-	-
- Oil	..	80.54 e	99.86 e	46.62	41.74	40.48	..	-	-
- Natural gas	..	6.56	20.74 e	51.66	46.84	48.44	..	-	-
- Biofuels & waste	..	10.79	11.98 e	27.75	29.36 e	31.24 e	..	-	-
Other ²	-	0.07	0.07	0.24	0.19 e	0.11 e	..	-	..

Table 4b. Gross heat production by source (PJ)

	1974	1990	2000	2010	2013	2014	2015e	74-00	00-15
Total plants heat generation³	6.88	12.34	165.17 e	218.25	223.63	230.35	228.82 e	13.0	2.2
Nuclear	-	-	-	-	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-	-	-
Combustible fuels	6.88	8.14	153.52 e	203.29	210.55	217.49	221.09	12.7	2.5
- Coal	..	2.80	33.70	53.34	55.74 e	67.50	65.92	..	4.6
- Oil	..	1.63	67.18	53.52	28.02	29.78	29.40	..	-5.4
- Natural gas	..	3.66	49.14	76.31 e	89.98 e	85.29 e	89.92	..	4.1
- Biofuels & waste	..	0.05	3.50 e	20.13	36.82 e	34.92	35.84	-	16.8
Chemical processes	-	3.83 e	3.98 e	3.75 e	- e	..	-
Heat pumps	-	-	-	-	-	-	-	-	-
Electric boilers	-	1.23	3.94	4.13	3.88	3.88	3.61	-	-0.6
Other sources	-	2.97	7.71	7.01	5.23	5.23	4.12	-	-4.1
Of which Autoproducers	-	1.61	94.14 e	123.82	128.39	142.09	..	-	-
Nuclear	-	-	-	-	-	-	..	-	..
Geothermal	-	-	-	-	-	-	..	-	..
Combustible fuels	-	-	92.53 e	118.52	123.56	137.49	..	-	-
- Coal	..	-	33.10	53.34	55.74 e	67.50	..	-	-
- Oil	..	-	56.02	44.90	24.97	26.67	..	-	-
- Natural gas	..	-	0.06	0.70	6.62	9.09	..	-	-
- Biofuels & waste	..	-	3.35 e	19.59	36.24 e	34.23	..	-	-
Chemical processes	-	3.83 e	3.98 e	3.75 e	..	-	-
Heat pumps	-	-	-	-	-	-	..	-	-
Electric boilers	-	-	-	-	-	-	..	-	-
Other sources	-	1.61	1.61	1.47	0.85	0.85	..	-	-

1. Electricity generated from main activity producer power plants and autoproducers.

2. Includes wave, ocean and other sources (e.g. fuel cells, electricity from chemical heat).

3. Total heat generation = gross production of heat from main activity producer + heat sold in autoproducers.

OECD Asia Oceania**Table 5. Net electricity production by autoproducers (GWh)**

	1974	1990	2000	2010	2012	2013	2014	74-00	00-14
Total	58730	137025 e	197477 e	214281	214798	221814	237094	4.8	1.3
Total energy	-	5430	11762	23528	23089	24534	23276	-	5.0
Coal mines	-	1	1	51	55	66	69	-	35.3
Oil and gas extraction	-	831	1252	3931	4216	5121	5323	-	10.9
Patent fuel plants	-	-	-	-	-	-	-	-	-
Coke ovens	-	-	-	-	-	-	-	-	-
Gas works	-	-	-	-	-	-	-	-	-
BKB	-	4598	10509	19546	18818	19347	17884	-	3.9
Oil refineries	-	-	-	-	-	-	-	-	-
Energy non specified/other	-	-	-	-	-	-	-	-	-
Total industry	58223	117423	161117 e	168133	167594	167207	175017	4.0	0.6
Iron and steel	970	21987	37875 e	42029	44204	42988	41807	15.1	0.7
Chemical and petrochemical	240	36182	46009 e	38199	36707	37511	40970	22.4	-0.8
Non-ferrous metals	1953	3109	6512 e	6357	6632	7806	8044	4.7	1.5
Non-metallic minerals	246	10760	13751 e	13252	12813	13465	13587	16.7	-0.1
Transport equipment	-	173	259	718	475	315	310	-	1.3
Machinery	6	4096	6558 e	4409	3654	3320	3095	30.9	-5.2
Mining and quarrying	2228	512	2219	4315	4400	4957	5154	-0.0	6.2
Food and tobacco	287	7685	10170 e	16235	15158	10393	10391	14.7	0.2
Pulp and printing	473	19305	28070 e	22878	23386	25847	25014	17.0	-0.8
Wood and wood products	25	850	982 e	533	563	588	584	15.2	-3.6
Construction	-	113	81	393	338	411	427	-	12.6
Textile and leather	-	1764	3712 e	2096	2014	1140	1074	-	-8.5
Non specified/other industries	51795	10887	4919	16719	17250 e	18466	24560	-8.7	12.2
Total transport	-	1	1	641	688	836	868	-	62.1
Rail	-	-	-	558	599	727	756	-	-
Pipeline	-	-	-	23	25	31	31	-	-
Transport non specified	-	1	1	60	64	78	81	-	36.9
Other	507 e	14171 e	24597 e	21979	23427	29237	37933	16.1	3.1
Commerce and pub. services	-	13453 e	23136 e	18167	16322	15560	16261	-	-2.5
Residential	-	-	-	-	4	5	65	-	-
Agriculture	-	-	-	1	28	1	2	-	-
Fishing	-	10	7	-	-	-	-	-	-
Sector non specified	507 e	708	1454 e	3811 e	7073	13671	21605	4.1	21.3

Notes: Data reported in this table prior to 1990 may refer to combustible fuels only.

OECD Asia Oceania

Table 6a. Electricity production from combustible fuels in electricity plants¹

	1990	2000	2005	2010	2012	2013	2014	90-00	00-14
Steam coal									
Fuel input (1000 t)	81177	163330 e	214599	234313	237033	242442	235772	7.2	2.7
Fuel input (TJ)	1822263	4028679 e	5192207	5739018	5816669	5999499	5818140	8.3	2.7
Electricity production (GWh)	194840	444139 e	567465	626411	649393	655632	650158	8.6	2.8
Lignite									
Fuel input (1000 t)	42901	66338 e	66736	70127	69722	60855	59150	4.5	-0.8
Fuel input (TJ)	399190	606843 e	654013	722306	718132	626808	609245	4.3	0.0
Electricity production (GWh)	33063	50200 e	51805	54867	53888	46537	45089	4.3	-0.8
Coal manufactured gases²									
Fuel input (TJ)	286772	359932 e	328948	366323	351071	367808	417677	2.3	1.1
Electricity production (GWh)	31424	40569 e	38088	41920	40831	42041	46945	2.6	1.0
Other coal products³									
Fuel input (1000 t)	928	879	678	576	495	474	439	-0.5	-4.8
Fuel input (TJ)	18530	13554	8024	5108	2899	2864	2520	-3.1	-11.3
Electricity production (GWh)	2031	1486	895	446	143	124	112	-3.1	-16.9
Oil and petroleum products									
Fuel input (1000 t)	65697 e	44177 e	41358 e	24072 e	45368 e	36456 e	25246	-3.9	-3.9
Fuel input (TJ)	2782692 e	1875246 e	1747287 e	1010943 e	1905351 e	1550995 e	1086349	-3.9	-3.8
Electricity production (GWh)	316579 e	220933 e	208005 e	122134 e	228867 e	185865 e	131609 e	-3.5	-3.6
Natural gas²									
Fuel input (TJ)	1897246	2655572	2826442	3974334	4803738	5029874	5013535	3.4	4.6
Electricity production (GWh)	200255	295470 e	323372	468222	550359	596285	604887	4.0	5.3
Solid biofuels									
Fuel input (TJ)	79678	85269 e	130860	233802	243269	262281	264669	0.7	8.4
Electricity production (GWh)	9570	10196	12562	25998	27284	28784	29280	0.6	7.8
Industrial waste									
Fuel input (TJ)	-	814	1834	13691	22025	22619	23072	-	27.0
Electricity production (GWh)	-	95	223	985	1884	1856	1992	-	24.3
Municipal waste									
Fuel input (TJ)	-	-	-	32540	29708	32434	42249	-	-
Electricity production (GWh)	-	-	-	3806	3438	3751	4956	-	-
Biogases and liquid biofuels									
Fuel input (TJ)	288	942	9134	13326	15081	14405 e	20134 e	12.6	24.4
Electricity production (GWh)	27	87	811	1249	1718	1711	2321	12.4	26.4
Total combustible fuels									
Electricity production (GWh)	787789 e	1063175 e	1203226 e	1346038 e	1557805 e	1562586 e	1517349 e	3.0	2.6

1. Excludes CHP plants.

2. Coal manufactured gases and natural gas are expressed on a gross calorific value basis.

3. Includes Coking coal as well as peat and peat products, patent fuels, BKB and shale oil

OECD Asia Oceania**Table 6b. Electricity and heat produced for sale from combustible fuels
in combined heat and power plants (CHP plants)**

	1990	2000	2005	2010	2012	2013	2014	90-00	00-14
Steam coal									
Fuel input (1000 t)	28	1957	5363	4775	5724	5448	6235	52.9	8.6
Fuel input (TJ)	585	53971	121848	112968	139981	131457	150168	57.2	7.6
Electricity production (GWh)	52	2072	7503	6236	7412	5835	7713	44.6	9.8
CHP Heat production (TJ)	-	33102	34757	53342	55845	55301	66913	-	5.2
Lignite									
Fuel input (1000 t)	1249	13	1375	1447	1436	1254	1219	-36.7	38.3
Fuel input (TJ)	12396	185	14220	14967	14834	12960	12602	-34.3	35.2
Electricity production (GWh)	548	17	1463	1141	1117	966	936	-29.3	33.2
CHP Heat production (TJ)	2269	-	-	-	-	-	-	-	-
Coal manufactured gases¹									
Fuel input (TJ)	87437	101235	108409	123888	127315	111846	103719	1.5	0.2
Electricity production (GWh)	6019	11823	12804	14404	15074	14148	13324	7.0	0.9
CHP Heat production (TJ)	-	-	468	-	501	435 e	589	-	-
Other coal products²									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
CHP Heat production (TJ)	-	-	-	-	-	-	-	-	-
Petroleum products									
Fuel input (1000 t)	-	3396 e	3375 e	2370	2311	2348	2509	-	-2.1
Fuel input (TJ)	-	154012	147218 e	102497	104918	99335	103529	-	-2.8
Electricity production (GWh)	-	8044	5648 e	5193	4474	4407	7540	-	-0.5
CHP Heat production (TJ)	-	59190	90366 e	49799	48700 e	27938	29085	-	-4.9
Natural gas¹									
Fuel input (TJ)	714	140503	220079	306920	390512	390858	347409	69.6	6.7
Electricity production (GWh)	60	13463	21434	30031	38690	42280	37338	71.8	7.6
CHP Heat production (TJ)	-	36767	43424	57308	75168	72284	69030	-	4.6
Solid Biofuels									
Fuel input (TJ)	33742 e	28472 e	67964	22642	18777	17209 e	21925	-1.7	-1.8
Electricity production (GWh)	1110	1163 e	3011	1970	1752	1900 e	2179	0.5	4.6
CHP Heat production (TJ)	-	-	-	1077	1587	1606 e	2313	-	-
Industrial waste									
Fuel input (TJ)	-	-	-	25	1849	1709	1550	-	-
Electricity production (GWh)	-	-	-	1	129	119 e	108 e	-	-
CHP Heat production (TJ)	-	-	-	9	824	831	941	-	-
Municipal waste									
Fuel input (TJ)	-	344 e	4670 e	7125	9856	6722	7052	-	24.1
Electricity production (GWh)	-	36 e	119 e	207	250	264	235	-	14.3
CHP Heat production (TJ)	-	-	1529	2295	5155	1596	1858	-	-
Biogases and liquid biofuels									
Fuel input (TJ)	1229	6143	1289	6487	6752	6213	7398	17.5	1.3
Electricity production (GWh)	113	482	119	562	793	785	816	15.6	3.8
CHP Heat production (TJ)	-	-	-	515	357	354	547	-	-
Total combustible fuels									
Electricity production (GWh)	7902	37100 e	52101 e	59745	69691	70704 e	70189 e	16.7	4.7
CHP Heat production (TJ)	2269	129059	170544 e	164345	188137 e	160345 e	171276	49.8	2.0

1. Coal manufactured gases and natural gas are expressed on a gross calorific value basis.

2. Includes Coking coal as well as peat and peat products, patent fuels, BKB and shale oil

OECD Asia Oceania**Table 6c. Heat produced for sale from combustible fuels in heat plants¹**

	1990	2000	2005	2010	2012	2013	2014	90-00	00-14
Steam coal									
Fuel input (1000 t)	32	27	25	-	-	-	-	-1.7	-
Fuel input (TJ)	804	690	617	-	-	-	-	-1.5	-
Heat production (TJ)	530	595	528	-	-	-	-	1.2	-
Lignite									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Heat production (TJ)	-	-	-	-	-	-	-	-	-
Coal manufactured gases²									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Heat production (TJ)	-	-	-	-	-	-	-	-	-
Other coal products³									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Heat production (TJ)	-	-	-	-	-	-	-	-	-
Petroleum products									
Fuel input (1000 t)	57	213	325 e	117	50	2	17	14.1	-16.5
Fuel input (TJ)	2473	9607	13236	4915	2066	86	715	14.5	-16.9
Heat production (TJ)	1630	7989	11172	3720	1975	81	695	17.2	-16.0
Natural gas²									
Fuel input (TJ)	6169	15750	23643	23186	21642	20724	18983	9.8	1.3
Heat production (TJ)	3660	12373	18625	18998 e	18629 e	17696 e	16259 e	13.0	2.0
Solid biofuels									
Fuel input (TJ)	-	-	-	-	1206	1206	5506	-	-
Heat production (TJ)	-	-	-	-	564	564 e	4492	-	-
Industrial waste									
Fuel input (TJ)	80	172	125	2596	15869	17206	10443	8.0	34.1
Heat production (TJ)	53	148	106	2081	12695	16455	9815	10.8	34.9
Municipal waste									
Fuel input (TJ)	-	4191	7719 e	17686	9718 e	15215	17908	-	10.9
Heat production (TJ)	-	3353 e	6175 e	14149	7774	15215	14924	-	11.3
Biogases and liquid biofuels									
Fuel input (TJ)	-	-	360	-	245 e	245	74	-	-
Heat production (TJ)	-	-	292	-	196	196 e	28	-	-
Total combustible fuels									
Heat production (TJ)	5873	24458 e	36898 e	38948 e	41833 e	50207 e	46213 e	15.3	4.6

1. Excludes CHP plants

2. Coal manufactured gases and natural gas are expressed on a gross calorific value basis.

3. Includes Coking coal as well as peat and peat products, patent fuels, BKB and shale oil

OECD Asia Oceania**Table 7. Net maximum electricity generating capacity on 31 December (GW)**

	1974	1990	2000	2005	2010	2012	2013	2014
Total capacity¹	128.07	247.76	377.91	413.46	454.85	471.21	483.34	507.63
Nuclear	3.91	31.65	58.96	66.76	66.68	66.86	64.98	64.98
Hydro	32.35	53.11	63.87	65.06	67.30	69.43	68.70	69.39
<i>of which: pumped storage</i>	-	18.95	27.40	28.20	30.01	32.18	32.18	32.79
Geothermal	0.18	0.53	0.95	0.97	1.27	1.24	1.33	1.49
Solar PV	-	-	0.36	1.49	4.74	10.33	18.90	30.52
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	0.26	0.26
Wind	-	-	0.16	2.24	5.07	6.22	7.07	7.85
Other (e.g. fuel cells)	-	-	-	0.02	0.09	0.11	0.15	0.20
Combustible fuels	91.63	162.48	253.61	276.93	309.71	317.02	321.95	332.95
<i>of which⁽²⁾:</i>								
<i>Single-fired:</i>								
Coal and Coal products
Liquid fuels
Natural gas
Biofuels & waste
<i>Multi-fired:</i>								
Solid / liquid
Solid / natural gas
Liquid / natural gas
Solid / liquid / gas
<u>Type of generation</u>								
Steam
Internal combustion
Gas turbine
Combined cycle
Other
<u>Peak load</u>
Of which Autoproducers	11.74	22.62	40.75	51.73	70.24	78.30	86.90	99.32
Nuclear	0.01	0.17	0.17	-	-	-	-	-
Hydro	1.07	1.38	1.47	1.40	4.37	4.29	4.26	4.20
<i>of which: pumped storage</i>	-	-	-	-	-	-	-	-
Geothermal	-	0.04	0.05	0.05	0.04	0.04	0.04	0.04
Solar PV	-	-	0.36	1.49	4.19	9.58	17.75	28.65
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	-	0.09	1.23	2.21	2.50	2.58	2.73
Other (e.g. fuel cells)	-	-	-	0.02	0.03	0.02	0.03	0.04
Combustible fuels	10.66	21.04	38.61	47.55	59.38	61.88	62.24	63.66

1. Sum of available capacity figures

2. Breakdown of electrical capacity by type of fuel are shown in the individual country chapters.

OECD Asia Oceania**Table 8. Capacity factors (%)**

	1974	1990	2000	2005	2010	2012	2013	2014
Total plants¹	51.2 e	55.1 e	50.8	51.1	50.3 e	47.4	46.3	43.7
Nuclear	57.6	92.1	83.4	77.2	74.8	28.4	26.0	27.5
Hydro	40.4	30.2	25.7	22.9	23.0	21.1	22.4 e	22.6
<i>of which: pumped storage</i>	..	5.8	5.6	5.9	5.3	5.1	4.7	4.3
Geothermal	88.4	83.2	75.3	75.3	76.8	80.9	77.7	75.5
Solar PV	..	11.4 e	12.4 e	12.2 e	12.2 e	12.2 e	12.2 e	12.3 e
Solar thermal	-	-	-	-	15.2	7.6	11.4	15.2
Tide, wave, ocean	..	-	-	-	-	-	21.6	21.9
Wind	..	-	21.6 e	17.3 e	25.8	27.0	24.9	27.1
Other (e.g. fuel cells)	..	-	-	44.0	36.4	46.1 e	45.8	57.0
Combustible fuels	54.6 e	55.9	49.5	51.8	51.8 e	58.6	57.9	54.4
Of which autoproducers	66.8 e	69.5 e	55.6	46.6	35.1	31.6	29.3	27.4
Nuclear	-	60.1	49.3	-	-	-	-	-
Hydro	65.9	58.7	58.1	53.7	43.1	43.4	43.8 e	45.4
<i>of which: pumped storage</i>	..	-	-	-	-	-	-	-
Geothermal	..	102.1	67.5	64.8	57.6	54.7	57.6	57.1
Solar PV	..	11.4 e	12.4 e	12.2 e	11.9 e	11.9 e	12.1 e	12.2 e
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	..	-	-	-	-	-	-	-
Wind	..	-	14.7 e	16.3	20.3	21.3	18.8	21.0
Other (e.g. fuel cells)	..	-	-	44.0	32.3	22.8	20.6	17.9
Combustible fuels	67.0 e	70.2	56.0	48.2	36.7	34.2	33.6	33.3

1. The capacity factor is defined as: the annual gross electricity generation (in GWh) divided by the net capacity (in GW) times 365 (days/year) times 24 (hours/day)

OECD Asia Oceania**Table 9b. Electricity exports by destination (GWh)**

	1974	1990	2000	2005	2010	2012	2013	2014
Total exports	-	456	1457	1667	3966	4434	4675	4844
Total to OECD	-	-	-	-	-	-	-	-
Austria	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-
Canada	-	-	-	-	-	-	-	-
Czech Republic	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-
Greece	-	-	-	-	-	-	-	-
Hungary	-	-	-	-	-	-	-	-
Ireland	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-
Luxembourg	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-
Poland	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-
Slovak Republic	-	-	-	-	-	-	-	-
Slovenia	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-
Switzerland	-	-	-	-	-	-	-	-
Turkey	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-
United States	-	-	-	-	-	-	-	-
Total to non-OECD	-	-	-	-	-	-	-	-
Albania	-	-	-	-	-	-	-	-
Azerbaijan	-	-	-	-	-	-	-	-
Belarus	-	-	-	-	-	-	-	-
Bulgaria	-	-	-	-	-	-	-	-
Croatia	-	-	-	-	-	-	-	-
F.Y.R. of Macedonia	-	-	-	-	-	-	-	-
Georgia	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-
Romania	-	-	-	-	-	-	-	-
Russian Federation	-	-	-	-	-	-	-	-
Serbia	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-
Turkmenistan	-	-	-	-	-	-	-	-
Ukraine	-	-	-	-	-	-	-	-
Non-specified/others	-	456	1457	1667	3966	4434	4675	4844

OECD Asia Oceania

Table 10a. Share of electricity in total final consumption (%)

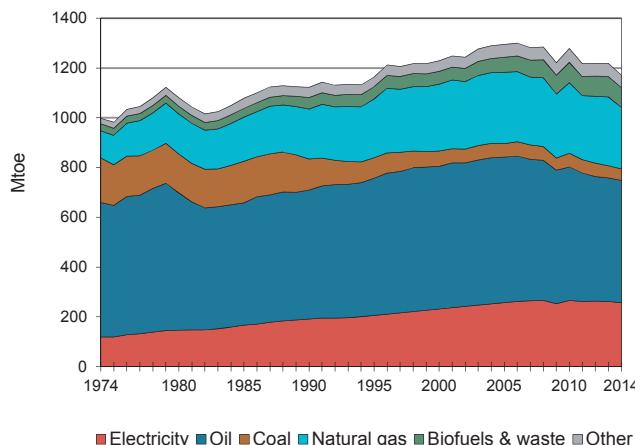
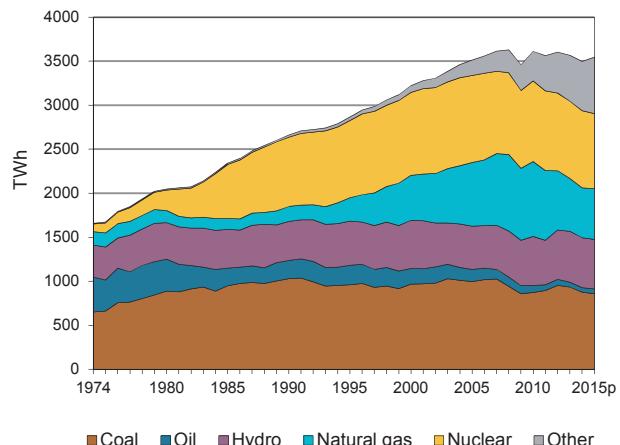
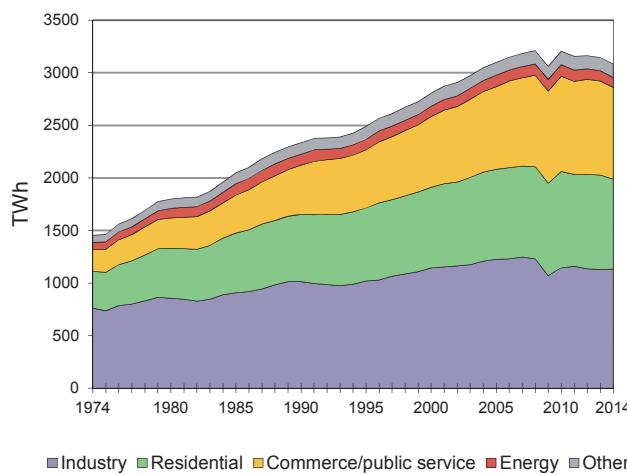
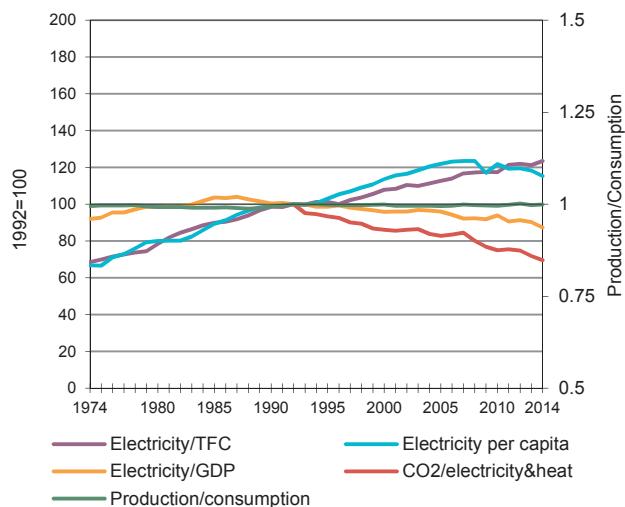
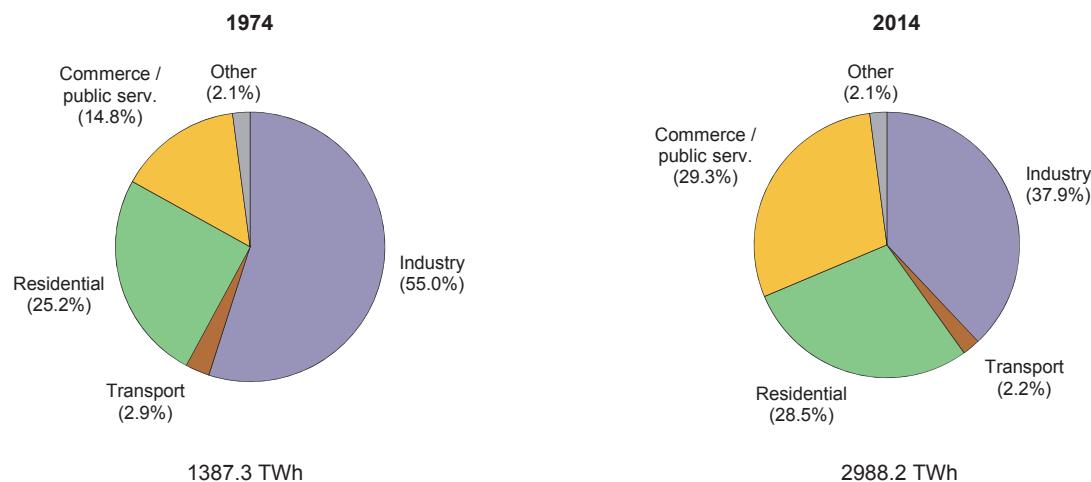
	1974	1990	2000	2005	2010	2012	2013	2014
Share of total final consumption	14.6	21.1	23.1	24.7	26.6	26.2	26.1	25.9
Industry	21.9	31.2	33.5	34.2	34.9	34.7	34.2	33.9
Iron and steel	18.0	24.3	30.3	28.3	30.4	30.5	32.6 e	30.3
Chem. and petrochemical	29.1	25.7	31.9	31.9	30.2	30.8	27.8	27.7
Non-ferrous metals	44.3	38.4	41.0	42.3	50.3	47.0	44.0	45.0
Non-metallic minerals	10.4	18.5	18.9	19.5	20.0	18.5	17.4	17.5
Transport equipment	83.1	81.1	61.8	70.0	71.4	71.1	71.8 e	73.1
Machinery	81.4	56.9	64.0	66.9	68.8	68.3	70.6 e	71.0
Mining and quarrying	31.2	35.0	36.8	38.9	43.4	36.1	35.6 e	37.1
Food and tobacco	10.5	33.0	28.6	28.5	26.8	26.1	27.9 e	28.2
Paper, pulp and printing	28.2	31.3	32.9	32.8	32.2	34.0	32.2 e	30.9
Wood and wood products	27.0	77.0	69.6	59.3	54.4	53.9	54.0 e	51.6
Construction	0.2	14.4	15.2	15.5	19.1	16.2	14.7	14.6
Textile and leather	12.9	37.5	36.7	34.6	29.8	32.1	34.0 e	33.1
Non specified/other	24.2	22.8	17.0	23.0	18.6	17.1	15.6 e	18.3
Transport	2.0	1.5	1.3	1.5	1.5	1.4	1.5	1.5
Rail Transport	35.9	58.1	61.2	64.4	62.5	59.9	59.4	59.2
Pipeline Transport	-	-	0.1	0.1	1.9	2.5	12.1	8.5
Road	-	-	-	-	-	-	-	-
Transport Non Specified	-	29.6	22.8	28.3	39.2	52.9	53.3	55.6
Other sectors	20.2	34.2	42.4	46.2	52.0	52.1	52.1	52.7
Commercial & publ. serv.	18.0	35.7	47.2	52.4	61.6	61.8	59.9	60.1
Residential	27.6	35.8	40.9	43.2	46.0	45.7	46.3	46.7
Agriculture	6.6	15.5	17.3	19.7	25.7	28.8	29.3	32.6
Fishing	-	2.1	3.8	9.1	12.2	15.0	14.3	16.3
Sector non specified	2.9	14.1	15.7 e	18.2 e	25.0 e	34.9 e	54.5 e	61.2 e

Table 10b. Share of heat in total final consumption (%)

	1974	1990	2000	2005	2010	2012	2013	2014
Share of total final consumption	0.0	0.1	0.7	0.9	0.9	0.8	0.8	0.9
Industry	-	-	1.3	1.7	1.4	1.3	1.3	1.5
Iron and steel	-	-	-	-	-	0.0	0.0	0.1
Chem. and petrochemical	-	-	3.6	6.3	4.9	4.5	4.4	5.1
Non-ferrous metals	-	-	0.4	0.2	0.0	-	0.0	0.1
Non-metallic minerals	-	-	-	-	-	-	-	0.0
Transport equipment	-	-	-	-	-	0.1	0.0	-
Machinery	-	-	0.7	0.6	0.5	0.4	0.3	0.3
Mining and quarrying	-	-	-	-	-	-	-	-
Food and tobacco	-	-	0.3	0.2	0.5	0.9	0.8	1.0
Paper, pulp and printing	-	-	1.2	1.2	1.8	1.7	1.8	2.1
Wood and wood products	-	-	-	-	0.2	0.4	0.2	0.3
Construction	-	-	-	-	-	-	-	0.0
Textile and leather	-	-	11.5	13.4	8.0	7.5	8.3	9.3
Non specified/other	-	-	-	-	0.5	0.6	0.2	0.2
Transport	-	-	-	-	-	-	-	-
Other sectors	0.1	0.2	1.1	1.3	1.5	1.6	1.5	1.5
Commercial & publ. serv.	0.2	0.4	0.8	0.9	1.0	1.0	0.9	1.0
Residential	-	0.1	1.4	1.8	2.1	2.3	2.3	2.3
Agriculture	-	-	-	-	-	-	-	-
Fishing	-	-	-	-	-	-	-	-
Sector non specified	-	-	-	-	-	-	-	-

Source: IEA/OECD World Energy Balances.

OECD Europe

Figure 1. Total final consumption by fuel**Figure 2. Electricity generation by fuel****Figure 3. Electricity consumption by sector****Figure 4. Electricity indicators****Figure 5. Total final electricity consumption by sector**

OECD Europe**Table 1. Energy consumption, GDP and population**

	1974	1990	2000	2010	2013	2014	2015p	74-00	00-15
TPES (Mtoe)	1358.04	1619.45	1748.23	1820.24	1737.24	1674.47	1704.00	1.0	-0.2
GDP (billion 2005 USD)	8532.20	12632.22	15847.87	18327.61	18726.98	18997.36	19374.19	2.4	1.3
TPES/GDP ¹	0.16	0.13	0.11	0.10	0.09	0.09	0.09	-1.4	-1.5
Population (millions)	458.30	500.37	521.42	551.23	558.44	560.82	564.02	0.5	0.5
TPES/population ²	2.96	3.24	3.35	3.30	3.11	2.99	3.02	0.5	-0.7
TPES/GDP (2005 = 100)	150	121	104	94	87	83	83	-1.4	-1.5
Ele.TFC/GDP(2005=100) ³	95	103	100	98	95	92	..	0.2	..
Ele.TFC/population ⁴	3028	4458	5195	5617	5464	5330	..	2.1	..
Elec. generated (TWh) ⁵	1659.22	2661.71	3222.62	3612.43	3566.99	3499.95	3545.00	2.6	0.6

Source: IEA/OECD *World Energy Balances* and OECD *Main Economic Indicators*.**Table 2. Total primary energy supply (TPES) by source**

	1974	1990	2000	2010	2013	2014	2015p	74-00	00-15
TPES (Mtoe)	1358.04	1619.45	1748.23	1820.24	1737.24	1674.47	1704.00	1.0	-0.2
Coal	418.38	449.32	330.48	300.87	306.89	292.35	285.63	-0.9	-1.0
Oil	695.79	605.61	652.06	602.45	550.02	541.24	552.43	-0.2	-1.1
Natural gas	154.78	259.98	393.11	469.48	415.30	373.76	390.50	3.6	-0.0
Biofuels & waste	31.87	54.42	70.30	130.37	140.24	140.14	147.16	3.1	5.0
Nuclear	22.53	205.17	244.85	238.86	228.68	228.47	222.39	9.6	-0.6
Geothermal	2.54	4.94	7.23	11.38	12.95	14.05	15.44	4.1	5.2
Solar, wind, tide ⁶	0.05	0.28	2.66	17.22	32.00	34.67	40.96	16.4	20.0
Hydro	31.47	38.39	46.93	47.81	49.82	48.81	48.47	1.5	0.2
Net electricity imports ⁷	0.64	1.30	0.15	1.26	0.64	0.20	0.30	-5.5	4.8
Heat	-	0.02	0.45	0.54	0.69	0.76	0.72	-	3.1

Source: IEA/OECD *World Energy Balances*.

1. In units of toe/2005 thousand US dollars.
2. In units of toe/per capita.
3. Ele.TFC = electricity total final consumption.
4. In units of kWh/per capita.
5. Electricity generated = gross production - amount of electricity produced in pumped storage plants.
6. Includes wave, ocean and other (e.g. fuel cells).
7. Net Imports = total imports - total exports

OECD Europe**Table 3a. Summary electricity production and consumption¹ (TWh)**

	1974	1990	2000	2005	2010	2013	2014	2015e
Gross production	1667.39	2681.59	3253.87	3550.44	3643.81	3598.84	3532.01	3575.36
- Own use by power plant	89.10	153.11	161.53	170.61	166.41	167.26	163.43	-
Net production	1578.29	2528.48	3092.34	3379.83	3477.40	3431.58	3368.59	-
- Used for heat pumps	-	0.01	2.29	1.96	1.81	1.62	2.02	1.36
- Used for electric boilers	-	0.46	2.69	1.15	1.07	1.41	1.29	1.26
- Used for pumped storage	13.56	29.57	42.98	50.75	43.06	43.95	44.16	42.45
+ Imports	70.49	217.68	282.31	357.44	321.40	366.61	397.87	422.98
- Exports	63.06	202.50	280.62	341.68	306.76	359.17	395.51	419.54
Electrical energy supplied	1572.16	2513.61	3046.07	3341.72	3446.10	3392.03	3323.49	..
- Transmission & distr. losses	115.29	178.46	239.23	243.22	241.31	245.94	240.27	..
- Statistical difference	-	1.51	0.52	-0.48	-0.42	0.65	-0.02	..
Total consumption	1456.88	2333.64	2806.33	3098.98	3205.22	3145.44	3083.24	..
Energy industry consumption²	69.59	103.81	98.38	108.10	109.79	95.12	95.02	..
Coal Mines	26.75	25.61	19.52	16.77	13.88	12.15	12.06	..
Oil + Gas Extraction	1.65	6.24	7.66	6.88	9.78	11.68	12.05	..
Patent Fuel Plants	0.04	0.03	0.00	0.00	0.00	-	-	..
Coke Ovens	1.90	2.49	1.77	1.65	1.68	1.60	1.58	..
BKB plants	4.44	9.04	4.97	4.87	5.00	4.96	4.96	..
Gas Works	4.13	1.93	0.54	0.68	0.18	0.21	0.22	..
Blast Furnaces	-	0.81	1.03	1.64	1.49	1.92	1.91	..
Oil Refineries	19.79	23.84	32.89	38.34	38.58	36.67	36.29	..
Nuclear Industry	-	13.77	16.64	0.29	0.37	0.34	0.33	..
Coal Liquefaction Plants	-	-	0.06	0.07	0.08	0.17	0.20	..
LNG/Regasification Plants	-	-	-	-	-	-	-	..
Energy - Non Specified	10.90	20.04	13.31	36.91	38.75	25.42	25.43	..
Final consumption	1387.29	2229.83	2707.95	2990.87	3095.43	3050.32	2988.22	..
Industry	762.53	1014.30	1145.82	1227.17	1146.34	1130.68	1133.80	..
Iron and steel	117.07	124.90	140.65	145.42	132.02	134.87	142.04	..
Chem. and petrochemical	186.40	206.97	207.15	211.69	200.63	191.64	190.75	..
Non-ferrous metals	80.82	97.20	99.47	111.09	97.89	94.84	94.68	..
Non-metallic minerals	47.50	68.10	84.94	87.80	81.56	76.74	77.83	..
Transport equipment	25.59	36.51	53.00	54.24	49.64	51.06	50.10	..
Machinery	59.99	100.58	97.34	117.58	129.33	128.74	127.52	..
Mining and quarrying	19.76	22.56	15.00	15.13	17.23	19.45	14.46	..
Food and tobacco	38.97	79.92	104.05	115.02	118.01	119.84	121.88	..
Paper, pulp and printing	67.33	109.37	142.24	152.67	135.89	129.53	104.62	..
Wood and wood products	12.27	21.15	23.10	27.56	25.55	23.80	26.52	..
Construction	6.97	11.69	14.19	16.30	20.30	20.51	18.10	..
Textile and leather	39.96	46.79	48.14	44.20	36.71	34.73	35.22	..
Non specified/other	59.91	88.56	116.56	128.47	101.57	104.94	130.10	..
Transport	40.38	62.27	73.54	68.62	65.32	66.96	65.05	..
Rail Transport	38.44	49.25	56.39	54.49	53.00	53.09	51.14	..
Pipeline Transport	-	0.74	0.96	1.29	1.31	1.21	1.16	..
Road	-	0.04	0.12	0.18	0.28	0.45	0.59	..
Transport Non Specified	1.94	12.24	16.08	12.65	10.74	12.22	12.17	..
Commercial & publ. serv.	349.20	638.53	764.61	855.57	915.30	897.23	853.00	..
Residential	205.90	469.10	673.93	785.41	906.64	895.17	874.80	..
Agriculture	24.75	42.47	45.31	49.43	51.50	52.15	52.08	..
Fishing	-	0.01	0.01	0.54	0.67	0.65	0.68	..
Sector non specified	4.52	3.16	4.73	4.13	9.66	7.48	8.80	..

1. Electricity generation from main activity producer power plants and autoproducers.

2. Energy industry consumption = electricity consumed by transformation industries for heating, traction and lighting purposes;

excludes own use by power plant and electricity used for heat pumps, electric boilers and pumped storage.

OECD Europe**Table 3b. Summary heat production and consumption¹ (TJ)**

	1974	1990	2000	2005	2010	2013	2014	2015e
Gross production	1068419	1931637	1914310	2409991	2553500	2399139	2271365	2291423
- Own use by power plant	-	8701	8053	12459	12849	13960	12227	-
Net production	1068419	1922936	1906257	2397532	2540651	2385179	2259138	-
- Used for electricity production	-	2184	12201	16936	21052	50882	48829	47449
+ Imports	-	122	144	153	174	172	230	245
- Exports	-	122	283	381	374	244	215	229
Heat energy supplied	1068419	1920752	1893917	2380368	2519399	2334225	2210324	..
- Transmission & distr. losses	18571	114320	108282	170355	181750	173859	166292	..
- Statistical difference	-	9693	4112	4205	13059	10211	12619	..
Total consumption	1053403	1796739	1781523	2205808	2324590	2150155	2031413	..
Energy industry consumption²	119255	123784	83812	121335	152890	151849	138785	..
Coal Mines	39189	26126	13540	10986	10439	9352	7784	..
Oil + Gas Extraction	149	158	438	1661	2437	812	1051	..
Patent Fuel Plants	791	69	-	-	-	-	19	..
Coke Ovens	24325	15830	12916	4222	3777	3692	3925	..
BKB plants	586	330	731	1885	842	4707	5644	..
Gas Works	9407	7775	2464	2842	3627	2826	3450	..
Blast Furnaces	-	-	-	-	-	368	346	..
Oil Refineries	28419	18057	27544	46501	89783	102015	88018	..
Nuclear Industry	1641	-	629	591	15	4	4	..
Coal Liquefaction Plants	-	-	-	319	432	197	200	..
LNG/Regasification Plants	-	-	-	-	-	32	9	..
Energy - Non Specified	11193	55439	25550	52328	41538	27844	28335	..
Final consumption	934148	1672955	1697711	2084473	2171700	1998306	1892628	..
Industry	458130	595375	448494	670141	678677	687385	689196	..
Iron and steel	34405	37011	13628	9450	11520	13804	16155	..
Chem. and petrochemical	108852	136146	224849	282697	285171	316994	289122	..
Non-ferrous metals	5858	5407	3535	5295	8874	6082	4752	..
Non-metallic minerals	15069	15279	5426	8517	8000	8724	9549	..
Transport equipment	16093	24835	12693	33483	31372	29450	25533	..
Machinery	35294	51663	13243	30275	31359	26165	25240	..
Mining and quarrying	35389	40111	5093	4196	7959	5335	3589	..
Food and tobacco	69871	65218	24942	34316	37167	43874	50887	..
Paper, pulp and printing	27864	37404	20790	65595	86515	99003	99687	..
Wood and wood products	12727	10163	2267	5956	19290	21467	18319	..
Construction	13521	13250	1627	2551	2135	1964	2018	..
Textile and leather	31868	29778	7264	11361	8589	6090	6013	..
Non specified/other	51319	129110	113137	176449	140726	108433	138332	..
Transport	-	-	-	-	-	-	-	..
Commercial & publ. serv.	39192	160170	274723	398863	477828	399371	381152	..
Residential	348821	820547	816827	824898	851757	880755	792396	..
Agriculture	16447	42272	20185	14372	11247	10042	9904	..
Fishing	-	258	298	351	352	411	412	..
Sector non specified	71558	54333	137184	175848	151839	20342	19568	..

1. Heat generation from main activity producer power plants and autoproducers.

2. Energy industry consumption = electricity consumed by transformation industries for heating, traction and lighting purposes;

excludes own use by power plant and electricity used for heat pumps, electric boilers and pumped storage.

OECD Europe

Table 4a. Gross electricity production by source (TWh)

	1974	1990	2000	2010	2013	2014	2015e	74-00	00-15
Total plants gross production¹	1667.39 e	2681.59 e	3253.87 e	3643.81	3598.84	3532.01	3575.36	2.6	0.6
Nuclear	86.44	786.80	939.39	916.08	877.03	876.31	852.86	9.6	-0.6
Hydro	374.10	466.30	576.97 e	587.36	611.21	599.68	593.95	1.7	0.2
- Of which pumped storage	8.17	19.88	31.26	31.38	31.85	32.07	30.36	5.3	-0.2
Geothermal	2.51	3.61	6.18	10.74	12.55	13.82	14.89	3.5	6.0
Solar	-	0.01 e	0.13 e	23.34 e	84.26	95.51	107.38	-	56.6
Wind	-	0.78	22.29	151.76	238.96	254.78	314.30	-	19.3
Combustible fuels	1203.75 e	1423.46 e	1707.04 e	1949.79	1769.77	1686.48	1686.30	1.4	-0.1
- Coal	..	1029.59 e	967.94 e	873.46 e	933.29	876.35	858.45	-	-0.8
- Oil	..	205.67 e	179.05 e	79.56	55.47 e	52.40	53.44	-	-7.7
- Natural gas	..	167.53 e	511.62 e	850.93	599.61	565.77	575.84	-	0.8
- Biofuels & waste	..	20.66 e	48.43 e	145.84	181.39	191.96	198.57	-	9.9
Other ²	0.60	0.64 e	1.87 e	4.75	5.07	5.44	5.69	4.5	7.7
Of which autoproducers	253.96 e	244.71 e	238.69 e	289.86	278.83	266.01	..	-0.2	-
Nuclear	4.23	5.54	-	-	-	-	..	-	..
Hydro	32.37	38.16	23.87 e	15.38	15.52	14.49	..	-1.2	-
- Of which pumped storage	-	0.08	0.10	0.03	0.03	0.03	..	-	..
Geothermal	-	-	-	-	-	-	..	-	..
Solar	-	0.00	0.04	1.35 e	10.05	13.70	..	-	..
Wind	-	0.04	1.20	3.38	6.73	7.64	..	-	..
Combustible fuels	217.36 e	200.89 e	213.16 e	266.61	242.94	226.48	..	-0.1	-
- Coal	..	102.42 e	55.15 e	46.08 e	32.41	29.15	..	-	-
- Oil	..	36.90 e	33.98 e	26.21	15.97	15.72	..	-	-
- Natural gas	..	44.58 e	91.17	139.21	132.99	117.42	..	-	..
- Biofuels & waste	..	16.99 e	32.86 e	55.11	61.57	64.19	..	-	-
Other ²	-	0.07	0.42	3.15	3.59	3.70	..	-	..

Table 4b. Gross heat production by source (PJ)

	1974	1990	2000	2010	2013	2014	2015e	74-00	00-15
Total plants heat generation³	1068.42 e	1931.64 e	1914.31 e	2553.50	2399.14	2271.37	2291.42 e	2.3	1.2
Nuclear	-	5.17	1.71	5.37	4.96	4.31	5.48	-	8.1
Geothermal	..	15.40	18.31	26.01	28.33	29.49	30.54 e	..	3.5
Combustible fuels	1068.42 e	1908.01 e	1848.95 e	2474.16	2305.96	2173.50	2196.07 e	2.1	1.2
- Coal	..	1323.87 e	785.24 e	763.57 e	686.67	636.85	629.28 e	-	-1.5
- Oil	..	186.24 e	180.22 e	177.18	112.35	100.54	94.71 e	-	-4.2
- Natural gas	..	277.21 e	638.03 e	1014.23	898.10	818.52	830.66 e	-	1.8
- Biofuels & waste	..	120.69 e	245.45 e	519.19	608.84	617.59	641.41 e	-	6.6
Chemical processes	-	0.78 e	3.88 e	9.34	16.61	19.26	19.16	-	11.2
Heat pumps	..	0.06	27.44	23.09	20.48	22.58	17.72 e	..	-2.9
Electric boilers	..	1.51	9.56	3.77	4.88 e	4.51 e	4.55	..	-4.8
Other sources	-	0.71 e	4.45 e	11.57	17.40	16.98	17.02	-	9.4
Of which Autoproducers	416.03 e	526.69 e	420.70 e	443.02	420.18	397.56	..	0.0	-
Nuclear	-	-	-	-	-	-	..	-	..
Geothermal	-	..	0.05	0.52	0.61	0.84	..	-	..
Combustible fuels	416.03 e	525.20 e	412.59 e	429.99	395.02	370.43	..	-0.0	-
- Coal	..	386.51 e	91.29 e	45.33 e	33.68	29.61	..	-	-
- Oil	..	49.70 e	65.39	91.68	52.68	43.55	..	-	..
- Natural gas	..	34.54 e	175.58 e	192.69	194.45	177.66	..	-	-
- Biofuels & waste	..	54.46 e	80.33	100.29	114.22	119.61	..	-	..
Chemical processes	-	0.78 e	3.88 e	9.34	16.61	19.26	..	-	-
Heat pumps	-	-	0.15	0.19	0.15	0.25	..	-	..
Electric boilers	-	-	0.06	0.01	0.01 e	0.03	..	-	..
Other sources	-	0.71 e	3.98 e	2.97	7.78	6.74	..	-	-

1. Electricity generated from main activity producer power plants and autoproducers.

2. Includes wave, ocean and other sources (e.g. fuel cells, electricity from chemical heat).

3. Total heat generation = gross production of heat from main activity producer + heat sold in autoproducers.

OECD Europe**Table 5. Net electricity production by autoproducers (GWh)**

	1974	1990	2000	2010	2012	2013	2014	74-00	00-14
Total	216575 e	228295 e	227256 e	275493 e	271528	264485	252756	0.2	0.8
Total energy	12901	42810 e	26982	63086	52884	50940	50038	2.9	4.5
Coal mines	-	-	3101 e	10723	3778	4416	4028	-	1.9
Oil and gas extraction	-	26	268	5258	2905	2807	2013	-	15.5
Patent fuel plants	-	-	481 e	660	684	675	698	-	2.7
Coke ovens	-	-	18	1169	1176	974	759	-	30.6
Gas works	-	13	34	7	4	15	11	-	-7.7
BKB	30	3606	17873 e	30502	31057	29840	26890	27.9	3.0
Oil refineries	-	-	15	34	39	44	17	-	0.9
Energy non specified/other	-	-	-	-	1	1	-	-	-
Total industry	160436 e	140635 e	168661 e	161479	156102	148644	136674	0.2	-1.5
Iron and steel	24446 e	19025 e	18614	20432	18905	19365	16187	-1.0	-1.0
Chemical and petrochemical	53850 e	52448 e	47113 e	44892	38953	36350	33280	-0.5	-2.5
Non-ferrous metals	5991 e	4866 e	12923	11128	11502	8247	7346	3.0	-4.0
Non-metallic minerals	843 e	935	5334	4443	4066	4322	3523	7.4	-2.9
Transport equipment	690 e	812	1338	2465	2337	2296	1788	2.6	2.1
Machinery	441 e	1488	1707	1352	1196	1661	1617	5.3	-0.4
Mining and quarrying	38631 e	21946	16050	1593	1428	1371	1152	-3.3	-17.2
Food and tobacco	4074 e	6244 e	13181 e	15785	16262	15920	15264	4.6	1.1
Pulp and printing	12334	20142 e	38388	49155	49762	47864	46355	4.5	1.4
Wood and wood products	2119 e	2479	3178	3601	3960	3994	3854	1.6	1.4
Construction	-	-	354	493	588	464	446	-	1.7
Textile and leather	3604 e	2083	6627	3337	3807	3396	2607	2.4	-6.4
Non specified/other industries	13413 e	8167 e	3854	2803	3336	3394	3255	-4.7	-1.2
Total transport	-	1868	1129	1158	1073	1028	981	-	-1.0
Rail	-	-	-	3	3	3	2	-	-
Pipeline	-	-	-	45	25	34	22	-	-
Transport non specified	-	1868	1129	1110	1045	991	957	-	-1.2
Other	43238 e	42982	30484 e	49770	61469	63873	65063	-1.3	5.6
Commerce and pub. services	29 e	2354	13692 e	24155 e	27774	23804	24677	26.7	4.3
Residential	-	3	84	285 e	1928	3092	4051	-	31.9
Agriculture	5	113	2359	14744	15499	15056	13354	26.7	13.2
Fishing	-	-	-	2	2	1	-	-	-
Sector non specified	43204	40512	14349 e	10584	16266	21920	22981	-4.2	3.4

Notes: Data reported in this table prior to 1990 may refer to combustible fuels only.

OECD Europe**Table 6a. Electricity production from combustible fuels in electricity plants¹**

	1990	2000	2005	2010	2012	2013	2014	90-00	00-14
Steam coal									
Fuel input (1000 t)	173952 e	156716 e	161876 e	127479	161416	158127	141962	-1.0	-0.7
Fuel input (TJ)	4140281 e	3827492 e	3970702 e	3139543	3903032	3874932	3443819	-0.8	-0.8
Electricity production (GWh)	438329 e	412389	426547 e	343024	422725	423058	377659	-0.6	-0.6
Lignite									
Fuel input (1000 t)	352302 e	318138 e	307616	279912	294240	271605	270886	-1.0	-1.1
Fuel input (TJ)	2851207 e	2656533 e	2456591	2314985	2409887	2266283	2240203	-0.7	-1.2
Electricity production (GWh)	272851 e	272103 e	251660	234763	246279	234962	232326	-0.0	-1.1
Coal manufactured gases²									
Fuel input (TJ)	239085 e	251673 e	259452 e	238576	260420	270871	277087	0.5	0.7
Electricity production (GWh)	22625 e	24113 e	24403 e	22561 e	23540	23896	24556	0.6	0.1
Other coal products³									
Fuel input (1000 t)	23823	26226	24955	22716	22877	20446	21445	1.0	-1.4
Fuel input (TJ)	536355 e	452882	434340	305628	336695	210533	234194	-1.7	-4.6
Electricity production (GWh)	57984 e	48826	47101	30923	35500	20685	23311	-1.7	-5.1
Oil and petroleum products									
Fuel input (1000 t)	39302 e	32306 e	21883 e	10383	8384	7035 e	6719	-1.9	-10.6
Fuel input (TJ)	1598260 e	1299780 e	869475 e	401566	330204	281002 e	271013	-2.0	-10.6
Electricity production (GWh)	170874 e	132118 e	88260 e	41542	33754	30101 e	26753	-2.5	-10.8
Natural gas²									
Fuel input (TJ)	1050364 e	2850965 e	3482015	4176260	2902646	2505488	2432211	10.5	-1.1
Electricity production (GWh)	107055 e	348888 e	438291	529954	377221	326065	321238	12.5	-0.6
Solid biofuels									
Fuel input (TJ)	16003	43119 e	174812	269542	294708	316370	344523	10.4	16.0
Electricity production (GWh)	1487 e	3614	13983 e	22891	25705	29293	31908	9.3	16.8
Industrial waste									
Fuel input (TJ)	24105	49092 e	10447	23779	26653	21471	22648	7.4	-5.4
Electricity production (GWh)	2654	4477 e	1160	1717	1887	1481	1647	5.4	-6.9
Municipal waste									
Fuel input (TJ)	50345	132393 e	205224 e	244362	239139	238830	239828	10.2	4.3
Electricity production (GWh)	3764	10126	13279 e	17438	16750	16498	17842	10.4	4.1
Biogases and liquid biofuels									
Fuel input (TJ)	8828	62424 e	119120 e	170089	202794	255109	261807	21.6	10.8
Electricity production (GWh)	445	5413 e	10173 e	16685	20722	25864	26649	28.4	12.1
Total combustible fuels									
Electricity production (GWh)	1078068 e	1262067 e	1314857 e	1261498 e	1204083	1131903 e	1083889	1.6	-1.1

1. Excludes CHP plants.

2. Coal manufactured gases and natural gas are expressed on a gross calorific value basis.

3. Includes Coking coal as well as peat and peat products, patent fuels, BKB and shale oil

OECD Europe**Table 6b. Electricity and heat produced for sale from combustible fuels
in combined heat and power plants (CHP plants)**

	1990	2000	2005	2010	2012	2013	2014	90-00	00-14
Steam coal									
Fuel input (1000 t)	90773 e	64595 e	69419	68585	60037	62940	57385	-3.3	-0.8
Fuel input (TJ)	2001871 e	1465741 e	1573799	1560127	1346837	1427677	1295916	-3.1	-0.9
Electricity production (GWh)	144112 e	122369 e	139304	141553	121498	128934	118424	-1.6	-0.2
CHP Heat production (TJ)	583894 e	386743 e	419014	402681	336320	367328	325241	-4.0	-1.2
Lignite									
Fuel input (1000 t)	114118 e	91675 e	101864	97946	108664	110270	110884	-2.2	1.4
Fuel input (TJ)	998024 e	847707 e	911945	884583	943687	938046	922754	-1.6	0.6
Electricity production (GWh)	68824 e	74416 e	85080	78580	85238	86075	84557	0.8	0.9
CHP Heat production (TJ)	290161 e	168741 e	103467	103246	100866	100950	104737	-5.3	-3.3
Coal manufactured gases¹									
Fuel input (TJ)	108427 e	107094 e	133101	155925	134512	127875	133027	-0.1	1.6
Electricity production (GWh)	8050 e	10099 e	12051	13681	11228	10442	10156	2.3	0.0
CHP Heat production (TJ)	34419 e	23031 e	28725	30443 e	28733	29732	29331	-3.9	1.7
Other coal products²									
Fuel input (1000 t)	26341	6211 e	9153	8749	7834	6050	5858	-13.5	-0.4
Fuel input (TJ)	242567	67517	142254	115073	111125	72520	74295	-12.0	0.7
Electricity production (GWh)	16816 e	3626	10138	8375	8142	5241	5356	-14.2	2.8
CHP Heat production (TJ)	66971 e	34383 e	73243	60663	57431	36879	38932	-6.4	0.9
Petroleum products									
Fuel input (1000 t)	9958 e	11504 e	12083	11456	9101	7083	7089	1.5	-3.4
Fuel input (TJ)	403652 e	432118 e	473435	436571	334536	266486	262362	0.7	-3.5
Electricity production (GWh)	34796 e	46934 e	48859	38021	33383	25371	25649	3.0	-4.2
CHP Heat production (TJ)	105023 e	95658 e	130810	129718	81776	78813	71142	-0.9	-2.1
Natural gas¹									
Fuel input (TJ)	717645 e	1628104 e	2719992	2986131	2659850	2424443	2193354	8.5	2.2
Electricity production (GWh)	60477 e	162727 e	287028	320974	295307	273549	244531	10.4	3.0
CHP Heat production (TJ)	180132 e	416394 e	747448	755251	656719	616036	561252	8.7	2.2
Solid Biofuels									
Fuel input (TJ)	75414	188320 e	343248	552423	643872	639685	637776	9.6	9.1
Electricity production (GWh)	9651 e	17124	29981	47140	53738	51385	51979	5.9	8.3
CHP Heat production (TJ)	13788 e	78452	119060	199851	226237	238939	233376	19.0	8.1
Industrial waste									
Fuel input (TJ)	8645	14480	21377	27030	37181	34742	32619	5.3	6.0
Electricity production (GWh)	301	1035	2010	1970	2072	2096	2068	13.1	5.1
CHP Heat production (TJ)	3757	3062	4558	9374	10916	9747	10470	-2.0	9.2
Municipal waste									
Fuel input (TJ)	75676	149063 e	250993	333363	387091	418892	443160	7.0	8.1
Electricity production (GWh)	1812	5459	11552	17144	20272	21080	22144	11.7	10.5
CHP Heat production (TJ)	36376	76067 e	104610	131142	153873	165737	179668	7.7	6.3
Biogases and liquid biofuels									
Fuel input (TJ)	5653	11715	36480 e	145996	222550	246369	274857	7.6	25.3
Electricity production (GWh)	550	1184	4538 e	20854	31483	33689	37725	8.0	28.0
CHP Heat production (TJ)	125	1696	4879	8150	13860	19939	23004	29.8	20.5
Total combustible fuels									
Electricity production (GWh)	345389 e	444973 e	630541 e	688292	662361	637862	602589	2.6	2.2
CHP Heat production (TJ)	1314646 e	1284227 e	1735814	1830519 e	1666731	1664100	1577153	-0.2	1.5

1. Coal manufactured gases and natural gas are expressed on a gross calorific value basis.

2. Includes Coking coal as well as peat and peat products, patent fuels, BKB and shale oil

OECD Europe**Table 6c. Heat produced for sale from combustible fuels in heat plants¹**

	1990	2000	2005	2010	2012	2013	2014	90-00	00-14
Steam coal									
Fuel input (1000 t)	19542	8043	6780	7906	7521	7103	6284	-8.5	-1.7
Fuel input (TJ)	418088	177884	155739	183265	173846	165516	146409	-8.2	-1.4
Heat production (TJ)	299975	143976	121861	142589	133193	132281	118510	-7.1	-1.4
Lignite									
Fuel input (1000 t)	2700 e	695 e	1028	385	376	430	398	-12.7	-3.9
Fuel input (TJ)	29203 e	9606 e	11364	5126	4729	5319	4774	-10.5	-4.9
Heat production (TJ)	20749 e	6781 e	7137	4474	3871	4010	3647	-10.6	-4.3
Coal manufactured gases²									
Fuel input (TJ)	7547 e	13037 e	5806	7849	8548	8783	8472	5.6	-3.0
Heat production (TJ)	5339 e	10576 e	4352	5295	6207	6140	6210	7.1	-3.7
Other coal products³									
Fuel input (1000 t)	1971 e	977 e	1069	1249	1218	899	923	-6.8	-0.4
Fuel input (TJ)	29701 e	13000 e	14647	18029	18342	11176	12366	-7.9	-0.4
Heat production (TJ)	22362 e	11012 e	12988	14176	12885	9351	10245	-6.8	-0.5
Petroleum products									
Fuel input (1000 t)	2514	2537 e	1852 e	1326	1166	954	957	0.1	-6.7
Fuel input (TJ)	102583	106960 e	79273	55974	48874	40375	41214	0.4	-6.6
Heat production (TJ)	81218	84562 e	67510	47459	40034	33539	29394	0.4	-7.3
Natural gas²									
Fuel input (TJ)	131406 e	294486 e	376987	356209	378450	387943	352418	8.4	1.3
Heat production (TJ)	97074 e	221639 e	269098	258979	272768	282064	257270	8.6	1.1
Solid biofuels									
Fuel input (TJ)	28177 e	63422	93591	136908	150358	147258	149288	8.5	6.3
Heat production (TJ)	23001 e	53589	77729 e	112601	123689	123315	123443	8.8	6.1
Industrial waste									
Fuel input (TJ)	190	3911 e	1231	6489	7268	3930	3741	35.3	-0.3
Heat production (TJ)	139	3048 e	750	4239	4969	2494	2373	36.2	-1.8
Municipal waste									
Fuel input (TJ)	70797	41075	55307	77522	70330	62981	61727	-5.3	3.0
Heat production (TJ)	43471 e	28456	35186	45153	40189	42108	39449	-4.1	2.4
Biogases and liquid biofuels									
Fuel input (TJ)	45	1304	5167	11816	9152	8951	8459	40.0	14.3
Heat production (TJ)	34	1083	4427	8678	7460	6559	5809	41.4	12.7
Total combustible fuels									
Heat production (TJ)	593362	564722 e	601038 e	643643	645265	641861	596350	-0.5	0.4

1. Excludes CHP plants

2. Coal manufactured gases and natural gas are expressed on a gross calorific value basis.

3. Includes Coking coal as well as peat and peat products, patent fuels, BKB and shale oil

OECD Europe**Table 7. Net maximum electricity generating capacity on 31 December (GW)**

	1974	1990	2000	2005	2010	2012	2013	2014
Total capacity¹	377.71	611.78	727.32	802.04	943.41	1012.06	1031.56	1053.70
Nuclear	14.69	121.29	133.94	133.60	131.68	123.14	122.86	123.44
Hydro	106.12	160.11	180.14	185.73	194.61	200.46	204.77	206.31
of which: pumped storage	2.36	38.14	42.67	44.69	46.34	46.77	46.68	47.04
Geothermal	0.39	0.56	0.79	0.93	1.43	1.60	1.76	1.89
Solar PV	-	0.01	0.20	2.33	29.51	68.15	78.51	85.35
Solar thermal	-	-	-	-	0.73	2.00	2.30	2.30
Tide, wave, ocean	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
Wind	-	0.45	12.74	40.66	85.15	106.18	117.52	128.85
Other (e.g. fuel cells)	-	-	0.20	0.95	0.89	2.05	2.16	2.22
Combustible fuels	256.29	329.11	399.06	437.61	499.16	508.23	501.45	503.10
of which ⁽²⁾ :								
<i>Single-fired:</i>								
Coal and Coal products
Liquid fuels
Natural gas
Biofuels & waste
<i>Multi-fired:</i>								
Solid / liquid
Solid / natural gas
Liquid / natural gas
Solid / liquid / gas
<u>Type of generation</u>								
Steam
Internal combustion
Gas turbine
Combined cycle
Other
<u>Peak load</u>
Of which Autoproducers	49.39	52.38	48.13	51.39	58.32	61.89	67.04	65.90
Nuclear	0.54	0.77	-	-	-	-	-	-
Hydro	6.63	8.51	4.06	3.64	3.79	4.01	3.86	3.31
of which: pumped storage	-	0.23	0.27	0.14	0.10	0.11	0.11	0.11
Geothermal	-	-	-	-	-	-	-	-
Solar PV	-	-	0.05	0.14	2.15	8.78	11.61	15.40
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	0.07	0.55	2.03	1.95	2.43	3.20	3.77
Other (e.g. fuel cells)	-	-	0.03	0.67	0.52	1.69	1.79	1.79
Combustible fuels	42.22	43.03	43.44	44.92	49.91	44.99	46.58	41.63

1. Sum of available capacity figures

2. Breakdown of electrical capacity by type of fuel are shown in the individual country chapters.

OECD Europe**Table 8. Capacity factors (%)**

	1974	1990	2000	2005	2010	2012	2013	2014
Total plants¹	50.4 e	50.0 e	51.1 e	50.5 e	44.1	41.0	39.8	38.3
Nuclear	67.2	74.1	80.1	84.3 e	79.4 e	81.6 e	81.5 e	81.0
Hydro	40.2	33.3	36.6 e	32.5 e	34.5	33.8	34.1	33.2
<i>of which: pumped storage</i>	39.5	11.9	16.6 e	18.5	15.4	15.7	15.8	15.8
Geothermal	74.4	73.1	88.9	87.4	85.6	85.0	81.5	83.5
Solar PV	-	11.4	7.3 e	7.3	8.7	11.2	11.6	12.1
Solar thermal	-	-	-	-	11.8	21.5	23.7	27.1
Tide, wave, ocean	28.4	23.9	24.0	22.9	22.6 e	21.7 e	19.7 e	22.6
Wind	-	19.6	20.0	19.9 e	20.3	22.4	23.2	22.6
Other (e.g. fuel cells)	-	-	61.1	119.8	45.2	21.0	19.4	19.7
Combustible fuels	53.6 e	49.4 e	48.8 e	50.8 e	44.6	41.9	40.3 e	38.3
Of which autoproducers	58.7 e	53.3 e	56.6 e	62.1 e	56.7	52.9	47.5	46.1
Nuclear	90.3	82.1	-	-	-	-	-	-
Hydro	55.8	51.2	67.1 e	47.2 e	46.4	45.3	45.9	50.0
<i>of which: pumped storage</i>	-	5.4	100.7	44.7	22.8	13.8	15.0	17.4
Geothermal	-	-	-	-	-	-	-	-
Solar PV	-	2.9	10.2	8.9	7.2	9.6	9.9	10.2
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	22.8	15.2	22.8	7.6
Wind	-	7.3	25.0	21.2 e	19.7	21.4	24.0	23.2
Other (e.g. fuel cells)	-	-	70.4	147.3	54.4	18.7	17.2	17.0
Combustible fuels	58.8 e	53.3 e	56.0 e	63.8 e	61.0	64.8	59.5	62.1

1. The capacity factor is defined as: the annual gross electricity generation (in GWh) divided by the net capacity (in GW) times 365 (days/year) times 24 (hours/day)

OECD Europe**Table 9a. Electricity imports by origin (GWh)**

	1974	1990	2000	2005	2010	2012	2013	2014
Total imports	70494	217676	282313	357438	321396	372173	366607	397872
Total from OECD	21553	172007	268913	322355	287804	347591	324814	354609
Austria	832	6910	16332	21985	20511	24481	21155	20185
Belgium	1206	4488	4452	8008	11826	7069	7756	4186
Canada	-	-	-	-	-	-	-	-
Czech Republic	-	2975	18634	24404	21449	28705	27457	28140
Denmark	291	4940	8177	11629	11741	10824	6651	4620
Estonia	-	-	-	-	1967	373	459	32
Finland	495	362	1004	1524	4983	1724	2695	3754
France	2626	55503	77719	66651	48741	55400	58457	73669
Germany	2874	22161	39909	59655	56858	64149	68903	72410
Greece	-	-	-	713	2312	2541	1811	112
Hungary	-	212	843	854	696	337	1023	548
Ireland	-	-	41	1	146	163	217	412
Italy	266	253	476	1147	1217	2374	2433	3110
Luxembourg	-	965	738	2367	1845	1385	702	994
Mexico	-	-	-	-	-	-	-	-
Netherlands	1256	3499	4031	5398	12772	14874	14757	17894
Norway	5895	16413	20486	15692	5776	21133	13675	19494
Poland	-	7878	9658	16110	7514	12560	12124	10804
Portugal	295	1697	3767	2801	3189	2871	4949	6345
Slovak Republic	352	778	8825	8832	5017	10233	8420	9363
Slovenia	-	1363	4554	8522	8066	3960	6098	5664
Spain	1777	3606	5293	10378	9315	13793	11271	9629
Sweden	38	14605	12955	21129	14581	32106	23377	30536
Switzerland	3170	23354	29785	31718	31676	32596	27059	27923
Turkey	-	-	-	-	736	1703	52	1907
United Kingdom	180	45	1234	2837	4870	2237	3313	2878
United States	-	-	-	-	-	-	-	-
Total from non-OECD	5256	18244	13101	33202	31585	22012	28853	27434
Albania	73	165	50	15	404	17	1380	105
Azerbaijan	-	-	-	-	156	277	277	102
Belarus	-	-	163	874	-	-	-	-
Bulgaria	-	320	4364	4543	3454	6270	7542	8785
Croatia	-	1	403	7992	6586	2744	5625	4076
F.Y.R. of Macedonia	-	-	-	795	3856	1604	1094	2630
Georgia	-	176	204	101	303	79	3	294
Latvia	-	-	236	345	836	1099	335	108
Lithuania	-	-	-	-	-	-	-	-
Romania	1482	-	-	1187	1252	215	758	1269
Russian Federation	25	4531	4893	11528	11847	4554	4851	3491
Serbia	21	891	612	18	544	78	950	212
Syria	-	-	-	-	-	-	-	-
Turkmenistan	-	-	-	-	-	-	-	-
Ukraine	3655	12160	2176	5804	2347	5075	6038	6362
Non-specified/others	43685	27425	299	1881	2007	2570	12940	15829

OECD Europe**Table 9b. Electricity exports by destination (GWh)**

	1974	1990	2000	2005	2010	2012	2013	2014
Total exports	63060	202504	280618	341681	306755	378339	359169	395505
Total to OECD	23913	170664	266453	322694	288013	348253	317692	351303
Austria	478	7789	15198	23019	22388	26824	28023	28981
Belgium	883	2322	11557	14313	12427	17052	17439	21827
Canada	-	-	-	-	-	-	-	-
Czech Republic	-	47	8699	12324	6685	11591	10574	11837
Denmark	433	12106	8571	13035	10260	15754	5396	8280
Estonia	-	-	-	-	246	1530	1544	3523
Finland	2983	6481	8365	7357	3684	14877	12900	18236
France	3087	7019	3676	7986	20463	12048	11701	8060
Germany	2103	24998	45612	52657	40817	43021	36155	37738
Greece	-	-	-	272	67	2032	900	3244
Hungary	-	233	7826	9616	5946	12659	9675	11924
Ireland	-	-	133	2074	378	420	2425	2699
Italy	1149	34226	42078	50683	46326	45839	45225	47147
Luxembourg	1175	4364	6409	5302	5384	5038	5864	5449
Mexico	-	-	-	-	-	-	-	-
Netherlands	454	12657	21835	23691	15486	32390	32666	33066
Norway	330	407	1231	3434	13258	3295	8660	4045
Poland	-	13	2494	3081	6173	8722	6589	12301
Portugal	349	1734	4698	9630	5823	10768	7726	7247
Slovak Republic	597	4602	5967	7822	6695	13382	10348	12839
Slovenia	-	2089	3307	1349	2136	4725	2311	3238
Spain	679	3209	12271	10366	5191	7789	10211	12300
Sweden	5603	12749	17688	13953	16801	12642	13409	15920
Switzerland	3379	21694	24070	38255	32796	30851	17903	16707
Turkey	-	-	-	-	-	4	1297	4
United Kingdom	231	11925	14768	12475	8583	15000	18751	24691
United States	-	-	-	-	-	-	-	-
Total to non-OECD	67	1891	11328	14763	11385	23286	14591	18785
Albania	-	541	1111	1056	491	1480	125	511
Azerbaijan	-	-	437	384	-	13	-	-
Belarus	-	-	-	-	-	-	-	-
Bulgaria	-	573	205	-	-	4	183	-
Croatia	-	-	7079	7702	5690	10699	5498	8019
F.Y.R. of Macedonia	-	-	-	70	8	147	207	19
Georgia	-	122	-	9	-	-	-	1
Latvia	-	-	929	1781	2695	4522	5739	6390
Lithuania	-	-	-	-	-	-	-	-
Romania	-	256	-	146	146	965	525	154
Russian Federation	-	-	374	172	-	-	3	-
Serbia	67	389	1189	1693	392	1295	278	1239
Syria	-	-	-	-	629	1234	-	-
Turkmenistan	-	-	-	-	-	-	-	-
Ukraine	-	10	4	1750	1334	2927	2033	2452
Non-specified/others	39080	29949	2837	4224	7357	6800	26886	25417

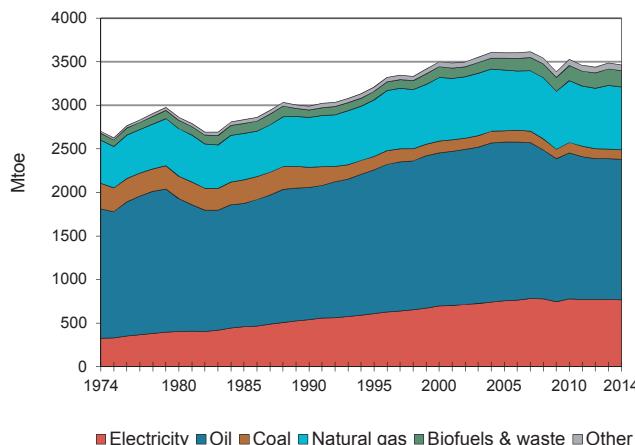
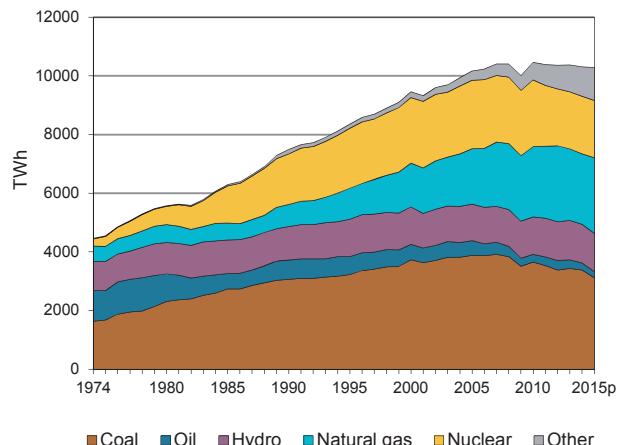
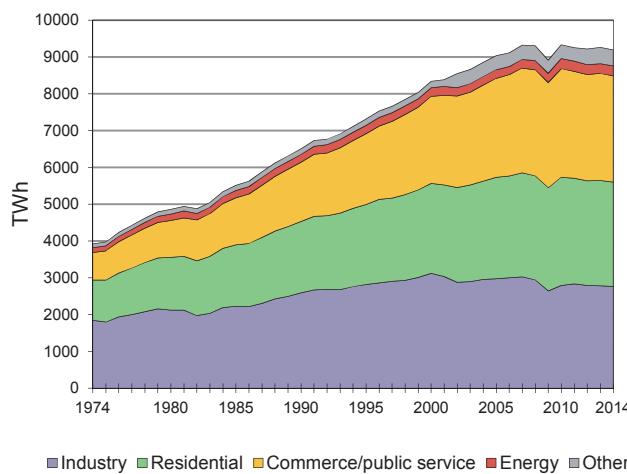
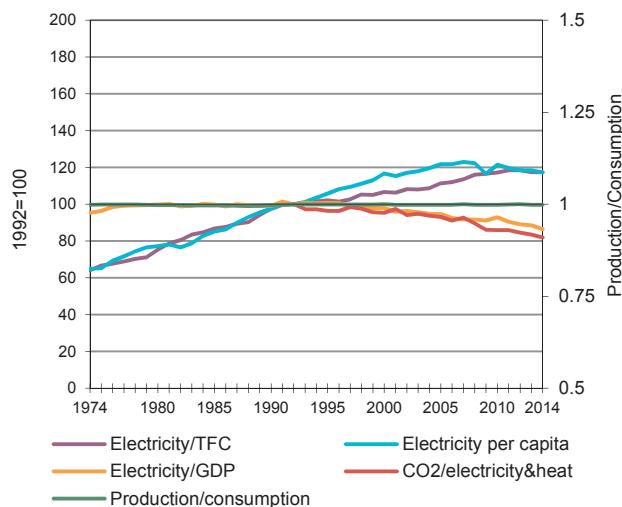
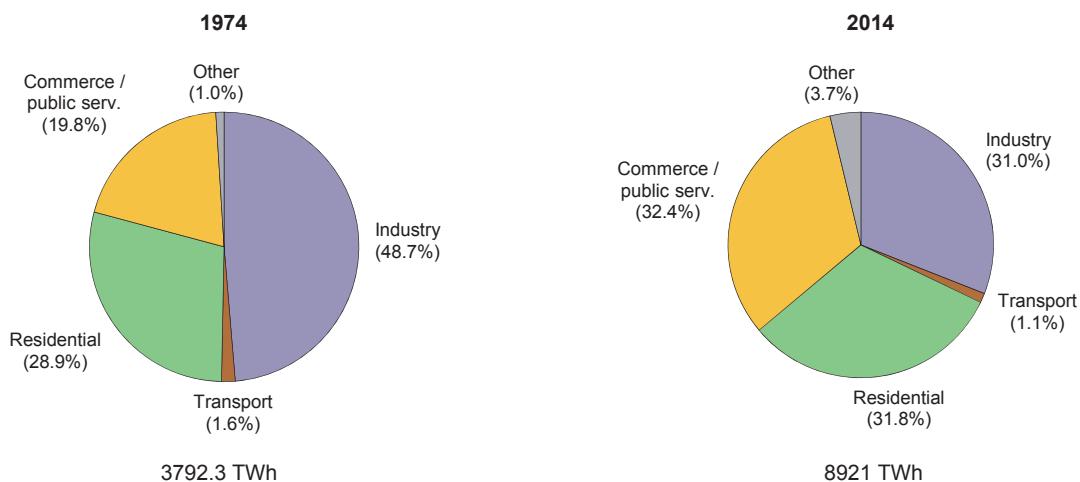
OECD Europe**Table 10a. Share of electricity in total final consumption (%)**

	1974	1990	2000	2005	2010	2012	2013	2014
Share of total final consumption	12.0	17.1	18.9	19.9	20.8	21.6	21.5	21.9
Industry	17.7	27.0	30.3	32.7	33.9	34.5	34.3	34.9
Iron and steel	13.5	20.2	26.9 e	30.0 e	31.6	33.1	33.2	35.3
Chem. and petrochemical	24.6	30.8	30.5 e	31.1 e	31.8	31.3 e	29.8	30.4
Non-ferrous metals	50.9	59.9	60.2 e	64.2 e	64.7	64.2	65.2	65.8
Non-metallic minerals	8.7	14.0	16.7	16.6 e	18.3	18.7	17.3	17.6
Transport equipment	28.2	39.4	48.6	48.4 e	53.1	53.6	52.5	55.0
Machinery	23.5	37.5	43.0 e	47.3 e	52.8	55.5	55.0	57.2
Mining and quarrying	20.8	30.2	36.7	40.8 e	43.6	45.4 e	47.7	42.3
Food and tobacco	12.4	24.2	28.5 e	31.8 e	34.5	34.4	34.9	35.5
Paper, pulp and printing	23.9	33.6	33.2 e	34.4 e	32.5	32.7	31.9	27.6
Wood and wood products	25.2	34.2	30.9	35.6 e	30.5	30.6	28.6	29.8
Construction	8.6	15.7	15.6 e	16.7 e	20.1	16.9	23.5	21.9
Textile and leather	24.0	33.5	35.2 e	40.9 e	47.3	46.8	47.3	47.1
Non specified/other	9.1	19.7	26.8	32.1 e	30.0	33.9 e	36.4	40.8
Transport	2.0	2.0	2.0	1.8	1.7	1.8	1.8	1.7
Rail Transport	21.9	51.4	59.8	60.3 e	63.0	63.7	69.4	68.9
Pipeline Transport	..	36.9	22.1	5.4	7.5	7.3	5.8	5.9
Road	..	-	-	-	0.0	0.0	0.0	0.0
Transport Non Specified	36.4	77.5	93.0	86.9 e	86.6	52.5	69.8	69.9
Other sectors	13.4	22.9	27.1	28.3	30.0	31.5	31.2	33.2
Commercial & publ. serv.	20.4	36.4	45.9	45.0 e	47.3 e	47.9	47.3	49.3
Residential	13.0	19.7	21.8	22.9 e	23.6 e	24.9 e	24.7	26.5
Agriculture	10.7	12.0	12.9	14.0 e	15.0	16.0	16.1	16.4
Fishing	..	0.1	0.0	2.3	3.2	3.3	3.1	3.3
Sector non specified	1.1	2.3	3.3	3.1 e	7.9	12.7	12.5	15.5

Table 10b. Share of heat in total final consumption (%)

	1974	1990	2000	2005	2010	2012	2013	2014
Share of total final consumption	2.2	3.6	3.3	3.8	4.1	3.9	3.9	3.9
Industry	3.0	4.4	3.3	5.0	5.6	5.8	5.8	5.9
Iron and steel	1.1	1.7	0.7	0.5	0.8	1.1	0.9	1.1
Chem. and petrochemical	4.0	5.6	9.2 e	11.5	12.6	13.1	13.7	12.8
Non-ferrous metals	1.0	0.9	0.6 e	0.9	1.6	1.3	1.2	0.9
Non-metallic minerals	0.8	0.9	0.3 e	0.5	0.5	0.6	0.6	0.6
Transport equipment	4.9	7.5	3.2 e	8.3	9.3	9.0	8.4	7.8
Machinery	3.8	5.4	1.6 e	3.4	3.6	3.5	3.1	3.2
Mining and quarrying	10.3	14.9	3.5 e	3.2	5.6	4.2	3.6	2.9
Food and tobacco	6.2	5.5	1.9 e	2.6	3.0	3.5 e	3.6	4.1
Paper, pulp and printing	2.8	3.2	1.4 e	4.1	5.8	7.6	6.8	7.3
Wood and wood products	7.3	4.6	0.8 e	2.1	6.4	7.7	7.2	5.7
Construction	4.6	4.9	0.5 e	0.7	0.6	0.5	0.6	0.7
Textile and leather	5.3	5.9	1.5 e	2.9	3.1	3.4	2.3	2.2
Non specified/other	2.2	8.0	7.2 e	12.2	11.5	10.1	10.5	12.1
Transport	..	-						
Other sectors	3.0	5.9	6.3	6.5	6.6	6.1	6.1	6.2
Commercial & publ. serv.	1.1	3.5 e	5.2 e	6.3 e	6.9 e	6.5 e	5.9 e	6.0
Residential	3.6	7.0 e	6.5 e	6.1 e	6.1 e	6.4 e	6.7 e	6.8
Agriculture	2.0	3.3 e	1.6 e	1.1 e	0.9 e	0.9 e	0.9 e	0.9
Fishing	..	0.5 e	0.3 e	0.4 e	0.5 e	0.5 e	0.6 e	0.6
Sector non specified	4.7 e	10.9 e	26.7 e	36.1 e	34.6 e	9.2 e	9.5 e	9.6

Source: IEA/OECD World Energy Balances.

IEA Total**Figure 1. Total final consumption by fuel****Figure 2. Electricity generation by fuel****Figure 3. Electricity consumption by sector****Figure 4. Electricity indicators****Figure 5. Total final electricity consumption by sector**

IEA Total**Table 1. Energy consumption, GDP and population**

	1974	1990	2000	2010	2013	2014	2015p	74-00	00-15
TPES (Mtoe)	3623.36	4368.63	5097.01	5182.22	5043.10	5013.95	5009.54	1.3	-0.1
GDP (billion 2005 USD)	17473.40	28344.11	36725.34	42877.20	44574.07	45343.04	46229.08	2.9	1.5
TPES/GDP ¹	0.21	0.15	0.14	0.12	0.11	0.11	0.11	-1.5	-1.6
Population (millions)	856.75	963.01	1029.06	1096.63	1113.33	1118.79	1125.22	0.7	0.6
TPES/population ²	4.23	4.54	4.95	4.73	4.53	4.48	4.45	0.6	-0.7
TPES/GDP (2005 = 100)	160	119	107	93	87	85	84	-1.5	-1.6
Ele.TFC/GDP(2005=100) ³	101	103	103	98	94	91	..	0.1	..
Ele.TFC/population ⁴	4428	6535	7884	8260	8078	7977	..	2.2	..
Elec. generated (TWh) ⁵	4459.95	7494.09	9458.52	10462.99	10370.44	10313.14	10281.64	2.9	0.6

Source: IEA/OECD *World Energy Balances* and OECD *Main Economic Indicators*.**Table 2. Total primary energy supply (TPES) by source**

	1974	1990	2000	2010	2013	2014	2015p	74-00	00-15
TPES (Mtoe)	3623.36	4368.63	5097.01	5182.22	5043.10	5013.95	5009.54	1.3	-0.1
Coal	838.75	1070.38	1082.75	1065.48	1000.39	985.39	920.48	1.0	-1.1
Oil	1846.72	1771.51	2001.41	1848.09	1763.27	1756.56	1784.72	0.3	-0.8
Natural gas	701.67	817.72	1121.09	1259.95	1295.30	1272.86	1294.83	1.8	1.0
Biofuels & waste	81.44	137.25	169.16	250.27	278.88	282.96	286.42	2.9	3.6
Nuclear	63.30	449.24	582.80	593.49	507.07	512.09	509.89	8.9	-0.9
Geothermal	5.63	20.84	23.50	22.22	24.32	26.16	27.90	5.6	1.2
Solar, wind, tide ⁶	0.05	2.12	5.89	30.77	55.80	62.46	71.54	19.8	18.1
Hydro	85.17	98.02	109.85	109.79	115.93	113.51	112.16	1.0	0.1
Net electricity imports ⁷	0.62	1.53	0.11	1.52	1.36	1.09	0.88	-6.4	14.8
Heat	-	0.02	0.45	0.63	0.78	0.85	0.72	-	3.1

Source: IEA/OECD *World Energy Balances*.

1. In units of toe/2005 thousand US dollars.
2. In units of toe/per capita.
3. Ele.TFC = electricity total final consumption.
4. In units of kWh/per capita.
5. Electricity generated = gross production - amount of electricity produced in pumped storage plants.
6. Includes wave, ocean and other (e.g. fuel cells).
7. Net Imports = total imports - total exports

IEA Total**Table 3a. Summary electricity production and consumption¹ (TWh)**

	1974	1990	2000	2005	2010	2013	2014	2015e
Gross production	4470.74	7539.57	9530.21	10242.96	10529.67	10432.39	10375.35	10341.75
- Own use by power plant	205.41	398.08	477.33	470.63	480.91	471.52	468.98	-
Net production	4265.33	7141.49	9052.87	9772.33	10048.76	9960.87	9906.37	-
- Used for heat pumps	-	0.01	2.29	1.96	1.81	1.62	2.02	1.36
- Used for electric boilers	-	0.66	3.61	2.13	2.03	2.30	2.16	2.06
- Used for pumped storage	16.45	65.76	92.38	98.95	86.17	81.14	83.80	78.38
+ Imports	88.36	256.25	342.02	411.30	376.46	440.14	469.94	498.26
- Exports	81.19	238.46	340.73	394.15	358.74	424.29	457.23	488.02
Electrical energy supplied	4256.04	7092.86	8955.88	9686.44	9976.48	9891.67	9831.10	..
- Transmission & distr. losses	334.73	564.35	591.92	642.88	636.96	638.41	630.86	..
- Statistical difference	-0.01	25.10	23.34	11.36	7.30	-4.23	9.40	..
Total consumption	3921.32	6503.41	8340.62	9032.20	9332.22	9257.48	9190.84	..
Energy industry consumption²	128.99	212.15	230.18	234.49	277.42	267.24	269.87	..
Coal Mines	38.19	43.58	37.68	32.19	32.76	29.92	29.69	..
Oil + Gas Extraction	15.37	47.61	52.93	53.82	62.19	68.78	72.36	..
Patent Fuel Plants	0.04	0.03	0.00	0.00	0.00	-	-	..
Coke Ovens	2.11	3.60	3.06	3.42	3.99	4.09	3.98	..
BKB plants	4.52	9.08	5.04	5.12	5.15	5.01	5.00	..
Gas Works	4.15	1.95	0.55	0.68	0.18	0.25	0.27	..
Blast Furnaces	-	0.81	1.03	5.12	4.83	5.41	5.35	..
Oil Refineries	53.72	70.61	99.01	93.51	113.59	112.43	112.18	..
Nuclear Industry	-	13.77	16.64	0.29	0.37	0.34	0.33	..
Coal Liquefaction Plants	-	-	0.06	0.07	0.08	0.17	0.20	..
LNG/Regasification Plants	-	1.02	0.91	0.77	0.83	0.93	0.93	..
Energy - Non Specified	10.90	20.09	13.28	39.49	53.46	39.91	39.57	..
Final consumption	3792.33	6291.26	8110.44	8797.71	9054.80	8990.25	8920.97	..
Industry	1846.38	2591.52	3121.82	2971.98	2790.57	2784.46	2762.91	..
Iron and steel	277.41	289.62	333.31	324.46	303.91	312.02	319.81	..
Chem. and petrochemical	399.45	510.84	594.52	483.55	446.18	420.44	421.75	..
Non-ferrous metals	255.76	230.64	293.24	286.62	244.85	261.39	262.96	..
Non-metallic minerals	97.05	150.21	172.84	178.07	156.24	151.97	154.08	..
Transport equipment	66.90	99.03	151.88	154.53	140.71	148.93	149.95	..
Machinery	124.73	311.92	324.62	347.26	385.23	386.55	385.55	..
Mining and quarrying	60.41	96.26	97.96	67.82	74.69	86.10	82.42	..
Food and tobacco	89.34	174.69	224.81	246.23	245.42	240.46	242.76	..
Paper, pulp and printing	169.95	331.55	393.52	346.65	293.35	270.54	241.19	..
Wood and wood products	35.43	83.26	86.44	78.44	70.10	66.27	69.62	..
Construction	7.06	22.27	23.79	57.13	85.78	82.65	80.84	..
Textile and leather	87.43	107.47	112.38	95.65	73.90	69.19	69.07	..
Non specified/other	175.46	183.77	312.53	305.57	270.23	287.97	282.91	..
Transport	61.98	88.68	104.82	104.07	100.02	103.61	102.10	..
Rail Transport	56.71	72.34	82.81	84.40	82.20	82.09	80.09	..
Pipeline Transport	2.89	3.15	4.61	4.57	4.43	5.05	5.07	..
Road	-	0.91	0.98	1.24	1.08	2.26	2.71	..
Transport Non Specified	2.38	12.29	16.41	13.86	12.31	14.20	14.23	..
Commercial & publ. serv.	1094.15	1940.19	2447.07	2763.09	2943.60	2863.57	2834.84	..
Residential	751.62	1609.85	2364.81	2686.77	2948.88	2904.83	2886.91	..
Agriculture	33.78	56.67	65.55	110.98	113.34	109.17	107.21	..
Fishing	-	0.50	0.44	2.60	3.19	3.44	3.84	..
Sector non specified	4.43	3.85	5.95	158.22	155.21	221.17	223.17	..

1. Electricity generation from main activity producer power plants and autoproducers.

2. Energy industry consumption = electricity consumed by transformation industries for heating, traction and lighting purposes;

excludes own use by power plant and electricity used for heat pumps, electric boilers and pumped storage.

IEA Total**Table 3b. Summary heat production and consumption¹ (TJ)**

	1974	1990	2000	2005	2010	2013	2014	2015e
Gross production	1084304	2049853	2411611	2889161	3268186	3072701	2936696	2966322
- Own use by power plant	-	8615	8648	63354	115233	109849	101721	-
Net production	1084304	2041238	2402963	2825807	3152953	2962852	2834975	-
- Used for electricity production	-	3794	13811	19385	24178	53292	49679	48765
+ Imports	-	122	144	153	174	172	230	245
- Exports	-	122	283	381	374	244	215	229
Heat energy supplied	1084304	2037444	2389013	2806194	3128575	2909488	2785311	..
- Transmission & distr. losses	18571	123825	156116	200241	241118	226740	216828	..
- Statistical difference	-	11695	6115	4195	15603	25540	21705	..
Total consumption	1069288	1901924	2226782	2601758	2871854	2657208	2546778	..
Energy industry consumption²	124267	126053	137871	154623	224206	213494	197407	..
Coal Mines	39189	26126	13540	10912	10359	9278	7729	..
Oil + Gas Extraction	149	158	438	1661	2437	812	1051	..
Patent Fuel Plants	791	69	-	-	-	-	19	..
Coke Ovens	24325	15830	12916	4222	3777	3692	3925	..
BKB plants	586	330	731	1885	842	4707	5644	..
Gas Works	9407	7775	2464	2842	3627	2826	3450	..
Blast Furnaces	-	-	-	-	-	368	346	..
Oil Refineries	28419	18057	81603	79863	161188	163743	146705	..
Nuclear Industry	1641	-	629	591	15	4	4	..
Coal Liquefaction Plants	-	-	-	319	432	197	200	..
LNG/Regasification Plants	-	-	-	-	-	32	9	..
Energy - Non Specified	16205	57708	25550	52328	41529	27835	28325	..
Final consumption	945021	1775871	2088911	2447135	2647648	2443714	2349371	..
Industry	467136	620094	744743	930468	1013344	995781	1013709	..
Iron and steel	34405	37011	20041	13268	19540	21249	24126	..
Chem. and petrochemical	117858	155105	382097	434527	489730	505777	482335	..
Non-ferrous metals	5858	5407	8748	8485	13347	9922	8592	..
Non-metallic minerals	15069	15279	5558	8598	8138	8852	9936	..
Transport equipment	16093	24835	16918	36054	36673	34157	30011	..
Machinery	35294	51663	19928	34984	37899	31105	30290	..
Mining and quarrying	35389	40111	5093	4196	7958	5334	3589	..
Food and tobacco	69871	65218	45995	47223	64523	69544	76963	..
Paper, pulp and printing	27864	40492	60283	102122	118288	128634	130429	..
Wood and wood products	12727	10163	11156	11253	30737	31634	28059	..
Construction	13521	13250	1627	2525	2154	1988	2062	..
Textile and leather	31868	29778	42860	43670	33817	26743	28009	..
Non specified/other	51319	131782	124439	183563	150540	120842	159308	..
Transport	-	-	-	-	-	-	-	..
Commercial & publ. serv.	41059	249279	337031	454063	559749	473546	455023	..
Residential	348821	810398	850327	872948	912160	943991	851157	..
Agriculture	16447	42021	19920	14098	10884	9618	9479	..
Fishing	-	-	-	28	-	-	-	..
Sector non specified	71558	54079	136890	175530	151511	20778	20003	..

1. Heat generation from main activity producer power plants and autoproducers.

2. Energy industry consumption = electricity consumed by transformation industries for heating, traction and lighting purposes;

excludes own use by power plant and electricity used for heat pumps, electric boilers and pumped storage.

IEA Total**Table 4a. Gross electricity production by source (TWh)**

	1974	1990	2000	2010	2013	2014	2015e	74-00	00-15
Total plants gross production¹	4470.74 e	7539.57 e	9530.21 e	10529.67	10432.39	10375.35	10341.75	3.0	0.5
Nuclear	242.08	1721.89	2236.16	2276.84	1945.26	1964.61	1956.04	8.9	-0.9
Hydro	1001.16	1185.21	1348.97 e	1343.28	1410.03	1382.06	1364.24	1.2	0.1
- Of which pumped storage	10.79	45.48	71.69	66.68	61.95	62.21	60.10	7.6	-1.2
Geothermal	6.49	23.19	25.75	32.38	34.74	37.13	38.89	5.4	2.8
Solar	-	0.68 e	1.24 e	32.38 e	121.13 e	153.55 e	180.67 e	-	39.4
Wind	-	3.84	28.51 e	267.10 e	442.05	479.85	556.09	-	21.9
Combustible fuels	3220.40 e	4604.01 e	5887.61 e	6568.77	6465.89	6344.58	6233.60	2.3	0.4
- Coal	..	3065.08 e	3731.37 e	3653.05 e	3439.17 e	3384.02	3121.10 e	-	-1.2
- Oil	..	657.95 e	527.88 e	260.68 e	288.18 e	239.06 e	210.64 e	-	-5.9
- Natural gas	..	759.17 e	1488.00 e	2396.16	2434.92	2400.85	2572.88 e	-	3.7
- Biofuels & waste	..	121.82 e	140.36 e	258.89	303.62 e	320.65 e	328.97 e	-	5.8
Other ²	0.60	0.73 e	1.97 e	8.93	13.30 e	13.58 e	12.23	4.7	12.9
Of which autoproducers	361.54 e	653.22 e	674.36 e	713.59	733.23	729.84	..	2.4	-
Nuclear	4.23	6.52	0.71	-	-	-	..	-6.6	..
Hydro	71.26	82.66	66.66 e	60.72	66.47	63.35	..	-0.3	-
- Of which pumped storage	-	0.08	0.10	0.03	0.03	0.03	..	-	..
Geothermal	-	7.23	0.27	0.22	0.22	0.22	..	-	..
Solar	-	0.67 e	0.61 e	8.29 e	35.10 e	49.93 e	..	-	-
Wind	-	3.11	1.31 e	7.32 e	11.10	12.94	..	-	-
Combustible fuels	286.05 e	552.90 e	604.30 e	630.33	612.71	595.65	..	2.9	-
- Coal	..	158.94 e	167.08 e	135.83 e	116.56 e	112.82	..	-	-
- Oil	..	123.17 e	141.93 e	82.54	67.72	66.05	..	-	-
- Natural gas	..	155.02 e	204.77	290.23	295.80	279.83	..	-	..
- Biofuels & waste	..	115.76 e	90.52 e	121.73	132.64 e	136.95 e	..	-	-
Other ²	-	0.14	0.49	6.72	7.63 e	7.74 e	..	-	..

Table 4b. Gross heat production by source (PJ)

	1974	1990	2000	2010	2013	2014	2015e	74-00	00-15
Total plants heat generation³	1084.30 e	2049.85 e	2411.61 e	3268.19	3072.70	2936.70	2966.32 e	3.1	1.4
Nuclear	9.01	21.20	1.71	5.37	4.96	4.31	5.48	-6.2	8.1
Geothermal	..	0.07	0.72	5.12	6.25	7.02	7.39 e	..	16.8
Combustible fuels	1075.30 e	2021.79 e	2352.77 e	3195.42	2989.20	2849.11	2887.08 e	3.1	1.4
- Coal	..	1341.34 e	895.03 e	913.57 e	791.22 e	739.18	729.11 e	-	-1.4
- Oil	..	189.99 e	256.36 e	268.17	169.49	155.56	149.16 e	-	-3.5
- Natural gas	..	286.55 e	923.62 e	1426.64 e	1337.16 e	1251.46 e	1284.54 e	-	2.2
- Biofuels & waste	..	122.61 e	277.76 e	587.05	691.33 e	702.91	724.26 e	-	6.6
Chemical processes	-	0.78 e	3.88 e	13.17 e	20.59 e	23.01 e	19.16	-	11.2
Heat pumps	..	0.06	27.44	23.09	20.48	22.58	17.72 e	..	-2.9
Electric boilers	..	2.28	12.92	7.25	8.08	7.71	7.47	..	-3.6
Other sources	-	3.68 e	12.15 e	18.58	22.62	22.20	21.14	-	3.8
Of which Autoproducers	416.03 e	541.18 e	513.91 e	566.68	549.36	540.45	..	0.8	-
Nuclear	-	-	-	-	-	-	..	-	..
Geothermal	-	..	0.05	0.52	0.61	0.84	..	-	..
Combustible fuels	416.03 e	538.08 e	504.19 e	548.37	519.37	508.72	..	0.7	-
- Coal	..	400.07 e	124.39 e	98.67 e	89.43 e	97.13	..	-	-
- Oil	..	49.70 e	121.41	136.57	77.64	70.21	..	-	..
- Natural gas	..	33.85 e	174.71 e	193.35	201.01	186.68	..	-	-
- Biofuels & waste	..	54.46 e	83.68 e	119.77	151.29 e	154.70	..	-	-
Chemical processes	-	0.78 e	3.88 e	13.17 e	20.59 e	23.01 e	..	-	-
Heat pumps	-	-	0.15	0.19	0.15	0.25	..	-	..
Electric boilers	-	-	0.06	0.00	0.00	0.02	..	-	..
Other sources	-	2.32 e	5.59 e	4.44	8.63	7.59	..	-	-

1. Electricity generated from main activity producer power plants and autoproducers.

2. Includes wave, ocean and other sources (e.g. fuel cells, electricity from chemical heat).

3. Total heat generation = gross production of heat from main activity producer + heat sold in autoproducers.

IEA Total**Table 5. Net electricity production by autoproducers (GWh)**

	1974	1990	2000	2010	2012	2013	2014	74-00	00-14
Total	281022 e	620761 e	655269 e	687124 e	702182 e	706563 e	703501 e	3.3	0.5
Total energy	12901	48228 e	42774 e	117926	111434	109921	108733	4.7	6.9
Coal mines	-	1	3102 e	10774	3833	4482	4097	-	2.0
Oil and gas extraction	-	857	1520	15910	12949	14099	13541	-	16.9
Patent fuel plants	-	-	481 e	660	684	675	698	-	2.7
Coke ovens	-	-	18	1169	1176	974	759	-	30.6
Gas works	-	13	34	7	4	15	11	-	-7.7
BKB	30	8204	28360 e	67835	71709	70446	66858	30.2	6.3
Oil refineries	-	-	15	34	39	44	17	-	0.9
Energy non specified/other	-	-	-	-	1	1	-	-	-
Total industry	224583 e	476568 e	440011 e	484351	486084	482909	471990	2.6	0.5
Iron and steel	25416 e	40946 e	56489 e	62461	63109	62353	57994	3.1	0.2
Chemical and petrochemical	54090 e	88614 e	93113 e	140945	135771	135344	133182	2.1	2.6
Non-ferrous metals	7944 e	7954 e	19435 e	17485	18134	16053	15390	3.5	-1.7
Non-metallic minerals	1089 e	11695	19085 e	17904	16914	17976	17289	11.6	-0.7
Transport equipment	690 e	985	1597	3391	3044	2862	2239	3.3	2.4
Machinery	447 e	5584	8263 e	5801	4925	5058	4767	11.9	-3.9
Mining and quarrying	40859 e	22445	18269	7519	7858	8495	8523	-3.0	-5.3
Food and tobacco	4361 e	13887 e	23334 e	37786	37499	32640	31888	6.7	2.3
Pulp and printing	12807	38754 e	66212 e	113077	113407	114936	110878	6.5	3.8
Wood and wood products	2144 e	3318	4160 e	5444	5978	6015	5790	2.6	2.4
Construction	-	113	435	886	926	875	873	-	5.1
Textile and leather	3604 e	3749	10309 e	5978	5997	4733	3849	4.1	-6.8
Non specified/other industries	71132 e	238524 e	119310 e	65674	72522	75569	79328	2.0	-2.9
Total transport	-	1869	1130	2211	2064	2322	2276	-	5.1
Rail	-	-	-	563	604	739	765	-	-
Pipeline	-	-	-	68	50	203	183	-	-
Transport non specified	-	1869	1130	1580	1410	1380	1328	-	1.2
Other	43538 e	94096 e	171354 e	82636	102600	111411	120502	5.4	-2.5
Commerce and pub. services	29 e	15830 e	37524 e	50295 e	54680	50514	51907	31.7	2.3
Residential	-	3	84	388 e	2072	3221	4258	-	32.4
Agriculture	-	108	2354	15003	15791	15342	13677	-	13.4
Fishing	-	10	7	2	2	1	-	-	-
Sector non specified	43509 e	78145	131385 e	16948 e	30055 e	42333 e	50660 e	4.3	-6.6

Notes: Data reported in this table prior to 1990 may refer to combustible fuels only.

IEA Total**Table 6a. Electricity production from combustible fuels in electricity plants¹**

	1990	2000	2005	2010	2012	2013	2014	90-00	00-14
Steam coal									
Fuel input (1000 t)	910049 e	1159932 e	1142336 e	1190055	1078705	1116876	1089711	2.5	-0.4
Fuel input (TJ)	21770399 e	27680634 e	25896555 e	27145472 e	24513941 e	25391205 e	24775609	2.4	-0.8
Electricity production (GWh)	2259271 e	2881189 e	2698586 e	2852799 e	2591310 e	2676845 e	2631387	2.5	-0.6
Lignite									
Fuel input (1000 t)	474633 e	463488 e	454886 e	421614	438344	404529	400848	-0.2	-1.0
Fuel input (TJ)	4436500 e	4392040 e	4258843	4061777	4198311	3936194	3877634	-0.1	-0.9
Electricity production (GWh)	413181 e	428810 e	416102	389852	404552	385531	379881	0.4	-0.9
Coal manufactured gases²									
Fuel input (TJ)	526434 e	625146 e	602684 e	611759	620249	644569	702985	1.7	0.8
Electricity production (GWh)	54100 e	65870 e	63165 e	64861 e	64819	66285	71914	2.0	0.6
Other coal products³									
Fuel input (1000 t)	24448	26649	141608	22860	22949	20499	21488	0.9	-1.5
Fuel input (TJ)	553998 e	465100	3600306	309464	338322	211726	235142	-1.7	-4.8
Electricity production (GWh)	59929 e	50179	387482	31323	35602	20766	23384	-1.8	-5.3
Oil and petroleum products									
Fuel input (1000 t)	135004 e	102711 e	95513 e	45475 e	57764 e	52120 e	41716	-2.7	-6.2
Fuel input (TJ)	5760092 e	4276525 e	3891983 e	1826492 e	2389035 e	2151763 e	1724986	-2.9	-6.3
Electricity production (GWh)	618635 e	459010 e	423155 e	204838 e	277563 e	246864 e	194009 e	-2.9	-6.0
Natural gas²									
Fuel input (TJ)	6063221 e	10138925 e	11537336 e	15114885	16695254 e	15444345	15308825	5.3	3.0
Electricity production (GWh)	599309 e	1093948 e	1363146	1822448	2009599	1887132	1886132	6.2	4.0
Solid biofuels									
Fuel input (TJ)	354645	313042 e	514905	717939	777289	815005	882209	-1.2	7.7
Electricity production (GWh)	26425 e	31687	41741 e	64976	68902	75026	80591	1.8	6.9
Industrial waste									
Fuel input (TJ)	33243	60327 e	28930	52078	65485	60178	62736	6.1	0.3
Electricity production (GWh)	3403	5495 e	2931	3524	4668	4188	4427	4.9	-1.5
Municipal waste									
Fuel input (TJ)	212345	351427 e	445546 e	518287	520048	522449	529093	5.2	3.0
Electricity production (GWh)	13457	24687	28599 e	36229	35658	35358	37790	6.3	3.1
Biogases and liquid biofuels									
Fuel input (TJ)	40066	121685 e	198966 e	290561	344992	410011	438891	11.7	9.6
Electricity production (GWh)	2989	10113 e	16954 e	27204	33395	39790	41931	13.0	10.7
Total combustible fuels									
Electricity production (GWh)	4050699 e	5050988 e	5441861 e	5498054 e	5526068 e	5437785 e	5351446 e	2.2	0.4

1. Excludes CHP plants.

2. Coal manufactured gases and natural gas are expressed on a gross calorific value basis.

3. Includes Coking coal as well as peat and peat products, patent fuels, BKB and shale oil

IEA Total**Table 6b. Electricity and heat produced for sale from combustible fuels in combined heat and power plants (CHP plants)**

	1990	2000	2005	2010	2012	2013	2014	90-00	00-14
Steam coal									
Fuel input (1000 t)	102040 e	96592 e	99730 e	96295	84625	86257	80212	-0.5	-1.3
Fuel input (TJ)	2302805 e	2301738 e	2281992 e	2189499 e	1879917 e	1929473 e	1787066	-0.0	-1.8
Electricity production (GWh)	179072 e	199542 e	201473 e	199081 e	169274 e	172789 e	162576	1.1	-1.5
CHP Heat production (TJ)	603409 e	497369 e	482346 e	546537 e	449678 e	468891 e	428109	-1.9	-1.1
Lignite									
Fuel input (1000 t)	111988 e	89075 e	99225	95434	106154	107985	109052	-2.3	1.5
Fuel input (TJ)	989740 e	827643 e	882800	855624	916712	910022	901295	-1.8	0.6
Electricity production (GWh)	68640 e	73909 e	82416	75464	82288	83115	82243	0.7	0.8
CHP Heat production (TJ)	287768 e	167308 e	101867	101854	99623	99693	103637	-5.3	-3.4
Coal manufactured gases¹									
Fuel input (TJ)	195864 e	292187 e	307106	318255	302797	274558	270965	4.1	-0.5
Electricity production (GWh)	14069 e	28245 e	28669	31292	29956	28598	27281	7.2	-0.2
CHP Heat production (TJ)	34419 e	23031 e	46178	37983 e	35440	33956 e	29920	-3.9	1.9
Other coal products²									
Fuel input (1000 t)	26341	6211 e	9427	8749	7834	6050	5858	-13.5	-0.4
Fuel input (TJ)	242567	67517	149039	115073	111125	72520	74295	-12.0	0.7
Electricity production (GWh)	16816 e	3626	11407	8375	8142	5241	5356	-14.2	2.8
CHP Heat production (TJ)	66971 e	34383 e	73243	60663	57431	36879	38932	-6.4	0.9
Petroleum products									
Fuel input (1000 t)	9883 e	18909 e	21342 e	16111	13544	11540	11836	6.7	-3.3
Fuel input (TJ)	400726 e	731408 e	853066 e	630993	524774	450379	456359	6.2	-3.3
Electricity production (GWh)	39318 e	68866 e	78054 e	55837	49709	41312	45049	5.8	-3.0
CHP Heat production (TJ)	107802 e	164005 e	250759 e	217179	170644 e	136098	125685	4.3	-1.9
Natural gas¹									
Fuel input (TJ)	1864440 e	3844884 e	5225250 e	5267687	5183225	4885262	4624145	7.5	1.3
Electricity production (GWh)	159859 e	394056 e	527459	573716	575027	547791	514719	9.4	1.9
CHP Heat production (TJ)	187048 e	692106 e	979494	1150370	1103766	1038999	979218	14.0	2.5
Solid Biofuels									
Fuel input (TJ)	1262649 e	604702 e	762629	804586	896589	897468 e	910158	-7.1	3.0
Electricity production (GWh)	67767 e	50303 e	64737	80353	87200	85792 e	87311	-2.9	4.0
CHP Heat production (TJ)	13788 e	87941	130414	227344	253421	267522 e	265111	20.4	8.2
Industrial waste									
Fuel input (TJ)	80228	73465	49273	54167	67641	57917	55399	-0.9	-2.0
Electricity production (GWh)	4262	7282	6204	4691	4735	4498 e	4202 e	5.5	-3.9
CHP Heat production (TJ)	3757	3249	6619	13190	18797	15376	16219	-1.4	12.2
Municipal waste									
Fuel input (TJ)	88759	190144 e	291929 e	371977	423631	452301	480360	7.9	6.8
Electricity production (GWh)	2849	7814 e	13558 e	19201	22240	22991	24243	10.6	8.4
CHP Heat production (TJ)	37009	91951 e	109807	145500	168384	176616	192868	9.5	5.4
Biogases and liquid biofuels									
Fuel input (TJ)	6882	30524	53476 e	166969	246344	268094	298068	16.1	17.7
Electricity production (GWh)	663	2979	5855 e	22708	33716	35980	40151	16.2	20.4
CHP Heat production (TJ)	125	3887	5288	10392	16578	20941	24328	41.0	14.0
Total combustible fuels									
Electricity production (GWh)	553315 e	836622 e	1019832 e	1070718 e	1062287 e	1028107 e	993131 e	4.2	1.2
CHP Heat production (TJ)	1342096 e	1765230 e	2186015 e	2511012 e	2373762 e	2294971 e	2204027	2.8	1.6

1. Coal manufactured gases and natural gas are expressed on a gross calorific value basis.

2. Includes Coking coal as well as peat and peat products, patent fuels, BKB and shale oil

IEA Total**Table 6c. Heat produced for sale from combustible fuels in heat plants¹**

	1990	2000	2005	2010	2012	2013	2014	90-00	00-14
Steam coal									
Fuel input (1000 t)	19549	8070	6804	7906	7521	7103	6280	-8.5	-1.8
Fuel input (TJ)	418686	178574	156336	183265	173846	165516	146343	-8.2	-1.4
Heat production (TJ)	300320	144571	122371	142589	133193	132281	118465	-7.0	-1.4
Lignite									
Fuel input (1000 t)	2700 e	695 e	1028	385	376	430	398	-12.7	-3.9
Fuel input (TJ)	29203 e	9606 e	11364	5126	4729	5319	4774	-10.5	-4.9
Heat production (TJ)	20749 e	6781 e	7137	4474	3871	4010	3647	-10.6	-4.3
Coal manufactured gases²									
Fuel input (TJ)	7547 e	13037 e	5806	7849	8548	8826	8514	5.6	-3.0
Heat production (TJ)	5339 e	10576 e	4352	5295	6207	6158	6228	7.1	-3.7
Other coal products³									
Fuel input (1000 t)	1971 e	977 e	1069	1249	1218	899	923	-6.8	-0.4
Fuel input (TJ)	29701 e	13000 e	14647	18029	18342	11176	12366	-7.9	-0.4
Heat production (TJ)	22362 e	11012 e	12988	14176	12885	9351	10245	-6.8	-0.5
Petroleum products									
Fuel input (1000 t)	2552	2746 e	2172 e	1439	1211	950	968	0.7	-7.2
Fuel input (TJ)	104283	116366 e	92286	60671	50710	40208	41680	1.1	-7.1
Heat production (TJ)	82191	92357 e	78490	50990	41810	33391	29874	1.2	-7.7
Natural gas²									
Fuel input (TJ)	136065 e	307098 e	397080	377312	397984	406804	369881	8.5	1.3
Heat production (TJ)	99498 e	231510 e	285192	276268 e	289632 e	298164 e	272243 e	8.8	1.2
Solid biofuels									
Fuel input (TJ)	28018 e	63095	93274	136639	151148	148081	154507	8.5	6.6
Heat production (TJ)	22852 e	53326	77470 e	112392	123918	123548 e	127688	8.8	6.4
Industrial waste									
Fuel input (TJ)	270	4069 e	1356	9085	23137	21136	14184	31.2	9.3
Heat production (TJ)	192	3182 e	856	6320	17664	18949	12188	32.4	10.1
Municipal waste									
Fuel input (TJ)	73426	47839	65492 e	97763	82953 e	82433	83872	-4.2	4.1
Heat production (TJ)	44852 e	33145 e	42686 e	60685	49545	59630	56680	-3.0	3.9
Biogases and liquid biofuels									
Fuel input (TJ)	45	1304	5980	16528	13348 e	12884	12221	40.0	17.3
Heat production (TJ)	34	1083	4964	11222	9789	8747 e	7829	41.4	15.2
Total combustible fuels									
Heat production (TJ)	598389	587543 e	636506 e	684411 e	688514 e	694229 e	645087 e	-0.2	0.7

1. Excludes CHP plants

2. Coal manufactured gases and natural gas are expressed on a gross calorific value basis.

3. Includes Coking coal as well as peat and peat products, patent fuels, BKB and shale oil

IEA Total**Table 7. Net maximum electricity generating capacity on 31 December (GW)**

	1974	1990	2000	2005	2010	2012	2013	2014
Total capacity¹	982.91	1690.51	2014.77	2302.12	2552.82	2661.28	2692.82	2749.67
Nuclear	52.92	266.12	300.72	313.04	311.52	304.58	300.42	300.33
Hydro	174.87	363.45	407.10	419.51	434.86	443.40	447.30	450.11
<i>of which: pumped storage</i>	2.36	57.27	96.81	103.06	107.17	109.95	109.87	110.94
Geothermal	0.56	3.72	4.37	3.96	4.53	4.77	5.02	5.23
Solar PV	-	0.02	0.74	4.33	37.29	87.01	109.71	131.69
Solar thermal	-	0.34	0.42	0.39	1.21	2.48	3.59	3.97
Tide, wave, ocean	0.24	0.26	0.26	0.26	0.26	0.26	0.52	0.52
Wind	-	2.37	15.37	52.27	133.32	177.66	192.36	210.61
Other (e.g. fuel cells)	-	-	0.20	1.44	1.30	3.41	3.85	4.43
Combustible fuels	754.32	1054.25	1285.58	1506.93	1628.53	1637.72	1630.06	1642.79
<i>of which⁽²⁾:</i>								
<i>Single-fired:</i>								
Coal and Coal products
Liquid fuels
Natural gas
Biofuels & waste
<i>Multi-fired:</i>								
Solid / liquid
Solid / natural gas
Liquid / natural gas
Solid / liquid / gas
<u>Type of generation</u>								
Steam
Internal combustion
Gas turbine
Combined cycle
Other
<u>Peak load</u>
Of which Autoproducers	66.98	124.19	281.60	142.44	170.82	186.24	199.48	210.27
Nuclear	0.55	0.95	0.17	-	-	-	-	-
Hydro	12.10	15.62	10.77	10.22	13.49	13.98	13.99	13.00
<i>of which: pumped storage</i>	-	0.23	0.27	0.14	0.10	0.11	0.11	0.12
Geothermal	-	1.09	0.05	0.05	0.04	0.04	0.04	0.04
Solar PV	-	0.01	0.58	2.11	8.77	23.53	35.32	49.60
Solar thermal	-	0.34	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	1.98	0.64	3.26	4.18	4.97	5.90	6.65
Other (e.g. fuel cells)	-	-	0.03	1.13	0.89	2.65	2.74	2.88
Combustible fuels	54.34	104.21	269.37	125.68	143.44	141.07	141.49	138.10

1. Sum of available capacity figures

2. Breakdown of electrical capacity by type of fuel are shown in the individual country chapters.

IEA Total**Table 8. Capacity factors (%)**

	1974	1990	2000	2005	2010	2012	2013	2014
Total plants¹	51.9 e	50.9 e	54.0 e	50.8 e	47.1 e	44.7 e	44.2 e	43.1 e
Nuclear	52.2	73.9	84.9	85.2 e	83.4 e	72.6 e	73.9 e	74.7
Hydro	65.4	37.2	37.8 e	35.6 e	35.3	35.6	36.0	35.1
<i>of which: pumped storage</i>	52.1	13.6	12.7 e	13.4	11.5	10.6	10.4	10.3
Geothermal	131.9	71.2	67.3	82.7	81.6	80.5	78.9	81.1
Solar PV	-	13.7 e	11.0 e	9.5 e	9.4 e	11.4 e	12.0 e	12.6 e
Solar thermal	-	22.3	14.3	17.6	15.5	21.8	18.4	23.4
Tide, wave, ocean	28.4	23.2	23.6 e	22.4	22.0 e	21.1 e	20.2 e	21.8
Wind	-	18.6	21.2 e	20.5 e	22.9	24.2	26.2	26.0
Other (e.g. fuel cells)	-	-	64.9	84.3	66.4	27.9 e	33.4	29.4
Combustible fuels	48.7 e	49.9 e	52.3 e	49.0 e	46.1 e	45.9	45.3	44.1
Of which autoproducers	61.6 e	60.0 e	27.3 e	55.7 e	47.7 e	44.8 e	42.0 e	39.6 e
Nuclear	88.2	78.0	49.3	-	-	-	-	-
Hydro	67.3	60.4	70.6 e	62.9 e	51.4	54.3	54.2	55.6
<i>of which: pumped storage</i>	-	5.4	100.7	44.7	22.8	13.8	15.0	17.4
Geothermal	-	75.7	67.5	64.8	57.6	54.7	57.6	57.1
Solar PV	-	5.7 e	12.1 e	11.9 e	10.8 e	11.0 e	11.3 e	11.5 e
Solar thermal	-	22.5	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	11.4	15.2	22.8	7.6
Wind	-	17.9	23.6 e	19.4 e	20.0	21.4	21.5	22.2
Other (e.g. fuel cells)	-	-	95.9	94.5	75.9	27.7	27.5	26.4
Combustible fuels	60.1 e	60.6 e	25.6 e	56.4 e	50.2	50.5	49.4	49.2

1. The capacity factor is defined as: the annual gross electricity generation (in GWh) divided by the net capacity (in GW) times 365 (days/year) times 24 (hours/day)

IEA Total**Table 9a. Electricity imports by origin (GWh)**

	1974	1990	2000	2005	2010	2012	2013	2014
Total imports	88355	256247	342015	411303	376463	434819	440135	469937
Total from OECD	39414	212294	329026	384212	349364	412977	403552	430690
Austria	832	6910	12517	20636	18503	19885	18976	17064
Belgium	1206	4488	4452	8008	11826	7069	7756	4186
Canada	15420	20555	48515	42930	43763	57971	62539	59370
Czech Republic	-	2975	18634	24404	21449	28705	27457	28140
Denmark	291	4940	8177	11629	11741	10824	6651	4620
Estonia	-	-	-	-	1967	373	459	32
Finland	495	362	1004	1524	4983	1724	2695	3754
France	2626	55503	77719	66651	48741	55400	58457	73669
Germany	2874	22161	39909	59655	56858	64149	68903	72410
Greece	-	-	-	713	2312	2541	1811	112
Hungary	-	212	843	854	696	337	1023	548
Ireland	-	-	41	1	146	163	217	412
Italy	266	253	470	1146	1093	2258	2301	2993
Luxembourg	-	965	738	2367	1845	1385	702	994
Mexico	-	1951	77	1597	1320	1286	7816	7141
Netherlands	1256	3499	4031	5398	12772	14874	14757	17894
Norway	5895	16413	20486	15692	5776	21133	13675	19494
Poland	-	7878	9658	16110	7514	12560	12124	10804
Portugal	295	1697	3767	2801	3189	2871	4949	6345
Slovak Republic	352	778	8825	8832	5017	10233	8420	9363
Slovenia	-	1363	4554	8522	8066	3960	6098	5664
Spain	1777	3606	5293	10378	9315	13793	11271	9629
Sweden	38	14605	12955	21129	14581	32106	23377	30536
Switzerland	3170	23354	29785	31718	31676	32596	27059	27923
Turkey	-	-	-	-	736	1703	52	1907
United Kingdom	180	45	1234	2837	4870	2237	3313	2878
United States	2441	17781	15342	18680	18609	10841	10694	12808
Total from non-OECD	5256	18244	12698	25210	25092	19272	23643	23418
Albania	73	165	50	15	404	17	1380	105
Azerbaijan	-	-	-	-	156	277	277	102
Belarus	-	-	163	874	-	-	-	-
Bulgaria	-	320	4364	4543	3454	6270	7542	8785
Croatia	-	1	-	-	93	4	415	60
F.Y.R. of Macedonia	-	-	-	795	3856	1604	1094	2630
Georgia	-	176	204	101	303	79	3	294
Latvia	-	-	236	345	836	1099	335	108
Lithuania	-	-	-	-	-	-	-	-
Romania	1482	-	-	1187	1252	215	758	1269
Russian Federation	25	4531	4893	11528	11847	4554	4851	3491
Serbia	21	891	612	18	544	78	950	212
Syria	-	-	-	-	-	-	-	-
Turkmenistan	-	-	-	-	-	-	-	-
Ukraine	3655	12160	2176	5804	2347	5075	6038	6362
Non-specified/others	43685	25709	291	1881	2007	2570	12940	15829

IEA Total**Table 9b. Electricity exports by destination (GWh)**

	1974	1990	2000	2005	2010	2012	2013	2014
Total exports	81188	238456	340726	394149	358744	439482	424289	457227
Total to OECD	42041	209320	329168	376174	342648	413799	385398	417307
Austria	478	7789	13922	22487	21805	26713	27242	28487
Belgium	883	2322	11557	14313	12427	17052	17439	21827
Canada	2726	19936	12685	19332	18482	11392	10675	12861
Czech Republic	-	47	8699	12324	6685	11591	10574	11837
Denmark	433	12106	8571	13035	10260	15754	5396	8280
Estonia	-	-	-	-	246	1530	1544	3523
Finland	2983	6481	8365	7357	3684	14877	12900	18236
France	3087	7019	3676	7986	20463	12048	11701	8060
Germany	2103	24998	45612	52657	40817	43021	36155	37738
Greece	-	-	-	272	67	2032	900	3244
Hungary	-	233	7826	9616	5946	12659	9675	11924
Ireland	-	-	133	2074	378	420	2425	2699
Italy	1149	34226	40408	42560	38810	41862	39781	41926
Luxembourg	1175	4364	6409	5302	5384	5038	5864	5449
Mexico	-	590	1993	471	625	603	678	437
Netherlands	454	12657	21835	23691	15486	32390	32666	33066
Norway	330	407	1231	3434	13258	3295	8660	4045
Poland	-	13	2494	3081	6173	8722	6589	12301
Portugal	349	1734	4698	9630	5823	10768	7726	7247
Slovak Republic	597	4602	5967	7822	6695	13382	10348	12839
Slovenia	-	2089	3307	1349	2136	4725	2311	3238
Spain	679	3209	12271	10366	5191	7789	10211	12300
Sweden	5603	12749	17688	13953	16801	12642	13409	15920
Switzerland	3379	21694	24070	38255	32796	30851	17903	16707
Turkey	-	-	-	-	-	4	1297	4
United Kingdom	231	11925	14768	12475	8583	15000	18751	24691
United States	15402	18130	50983	42332	43627	57639	62578	58421
Total to non-OECD	67	1891	8721	13751	8739	18883	12005	14503
Albania	-	541	1111	1056	491	1480	125	511
Azerbaijan	-	-	437	384	-	13	-	-
Belarus	-	-	-	-	-	-	-	-
Bulgaria	-	573	205	-	-	4	183	-
Croatia	-	-	4472	6690	3044	6296	2912	3737
F.Y.R. of Macedonia	-	-	-	70	8	147	207	19
Georgia	-	122	-	9	-	-	-	1
Latvia	-	-	929	1781	2695	4522	5739	6390
Lithuania	-	-	-	-	-	-	-	-
Romania	-	256	-	146	146	965	525	154
Russian Federation	-	-	374	172	-	-	3	-
Serbia	67	389	1189	1693	392	1295	278	1239
Syria	-	-	-	-	629	1234	-	-
Turkmenistan	-	-	-	-	-	-	-	-
Ukraine	-	10	4	1750	1334	2927	2033	2452
Non-specified/others	39080	27245	2837	4224	7357	6800	26886	25417

IEA Total**Table 10a. Share of electricity in total final consumption (%)**

	1974	1990	2000	2005	2010	2012	2013	2014
Share of total final consumption	12.1	18.1	19.9	21.0	22.1	22.4	22.2	22.2
Industry	17.2	27.7	30.6	31.4	31.4	31.7	31.5	31.3
Iron and steel	14.9	23.5	26.3 e	28.3 e	28.8	29.8	30.3	30.1
Chem. and petrochemical	33.1	27.8	27.7 e	27.8 e	24.4	24.9 e	24.0	24.0
Non-ferrous metals	64.3	58.5	50.5 e	58.3 e	58.7	59.8	58.8	59.5
Non-metallic minerals	12.1	17.5	16.5	16.9 e	17.7	17.8	16.9	17.1
Transport equipment	42.6	57.7	46.6	52.6 e	56.3	56.9	56.2	57.1
Machinery	37.6	55.5	49.5 e	53.7 e	57.6	57.7	56.8	57.5
Mining and quarrying	36.0	47.0	47.1	41.0 e	45.7	35.2 e	37.5	36.3
Food and tobacco	18.4	32.0	26.6 e	28.1 e	28.0	28.6	28.6	28.6
Paper, pulp and printing	23.1	38.5	26.8 e	25.3 e	23.3	22.9	22.4	20.3
Wood and wood products	41.9	60.6	31.2	30.7 e	31.6	35.8	34.7	34.9
Construction	5.7	12.6	13.7 e	20.0 e	34.5	24.5	25.3	25.2
Textile and leather	30.9	43.7	36.3 e	40.8 e	41.4	42.8	44.1	43.7
Non specified/other	4.3	8.7	35.0 e	33.3 e	31.9	33.0 e	35.8	35.4
Transport	0.8	0.9	0.8	0.8	0.8	0.8	0.8	0.8
Rail Transport	13.5	26.1	30.4	28.5 e	33.0	27.2	28.6	28.4
Pipeline Transport	1.6	1.5	1.9	1.9	1.9	1.8	1.8	1.7
Road	..	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Transport Non Specified	11.6	26.8	58.8	34.5 e	41.9	48.6	61.8	59.7
Other sectors	18.1	30.9	36.0	39.1	41.3	42.8	41.7	42.6
Commercial & publ. serv.	23.7	40.8	48.3	50.1 e	53.0 e	53.9	52.4	52.6
Residential	18.1	28.8	31.3	33.7 e	35.4 e	36.5 e	35.5	36.7
Agriculture	7.4	9.4	10.4	15.2 e	15.7	15.8	15.5	15.7
Fishing	..	1.4	1.3	5.9	8.1	9.5	9.1	10.2
Sector non specified	0.6	1.0	3.3 e	52.3 e	55.6 e	75.6 e	77.1 e	78.2 e

Table 10b. Share of heat in total final consumption (%)

	1974	1990	2000	2005	2010	2012	2013	2014
Share of total final consumption	0.8	1.4	1.4	1.6	1.8	1.7	1.7	1.6
Industry	1.2	1.8	2.0	2.7	3.2	3.2	3.1	3.2
Iron and steel	0.5	0.8	0.4 e	0.3 e	0.5 e	0.7 e	0.6 e	0.6
Chem. and petrochemical	2.7	2.3	4.9 e	6.9 e	7.5 e	7.8 e	8.0 e	7.6
Non-ferrous metals	0.4	0.4	0.4 e	0.5 e	0.9 e	0.7 e	0.6 e	0.5
Non-metallic minerals	0.5	0.5	0.2 e	0.2 e	0.3 e	0.3 e	0.3 e	0.3
Transport equipment	2.9	4.0	1.4 e	3.4 e	4.1 e	3.8 e	3.6 e	3.2
Machinery	3.0	2.6	0.8 e	1.5 e	1.6 e	1.5 e	1.3 e	1.3
Mining and quarrying	5.9	5.4	0.7 e	0.7	1.4	0.7	0.6	0.4
Food and tobacco	4.0	3.3	1.5 e	1.5 e	2.0 e	2.4 e	2.3 e	2.5
Paper, pulp and printing	1.1	1.3	1.1 e	2.1 e	2.6 e	3.3 e	3.0 e	3.1
Wood and wood products	4.2	2.1	1.1 e	1.2 e	3.8 e	4.9 e	4.6 e	3.9
Construction	3.0	2.1	0.3 e	0.3	0.2	0.2	0.2	0.2
Textile and leather	3.1	3.4	3.9 e	5.2 e	5.3 e	5.2 e	4.7 e	4.9
Non specified/other	0.4	1.7	3.9 e	5.6 e	4.9 e	4.5 e	4.2 e	5.5
Transport	..	-						
Other sectors	1.3	2.7	2.8	2.9	3.0	2.8	2.8	2.6
Commercial & publ. serv.	0.4	1.8 e	1.9 e	2.4 e	2.8 e	2.7 e	2.4 e	2.3
Residential	1.6	3.3	3.0 e	3.0	3.0	3.2	3.3	3.1
Agriculture	1.0	1.9	0.9 e	0.5 e	0.4	0.4	0.4	0.4
Fishing	..	-	-	0.0	-	-	-	-
Sector non specified	2.6 e	4.0 e	21.4	16.1	15.1	2.1	2.0	2.0

Source: IEA/OECD World Energy Balances.

Australia

Figure 1. Total final consumption by fuel

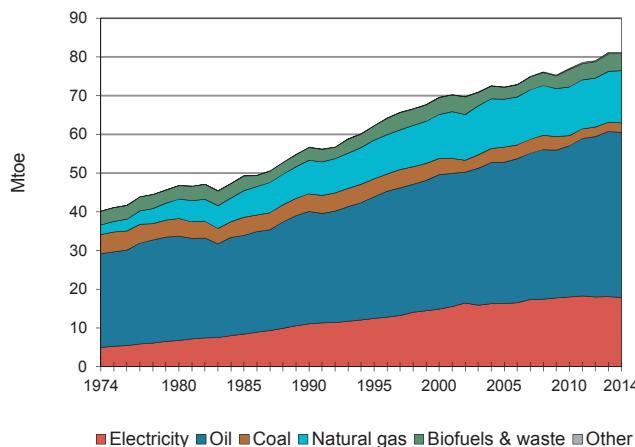


Figure 2. Electricity generation by fuel

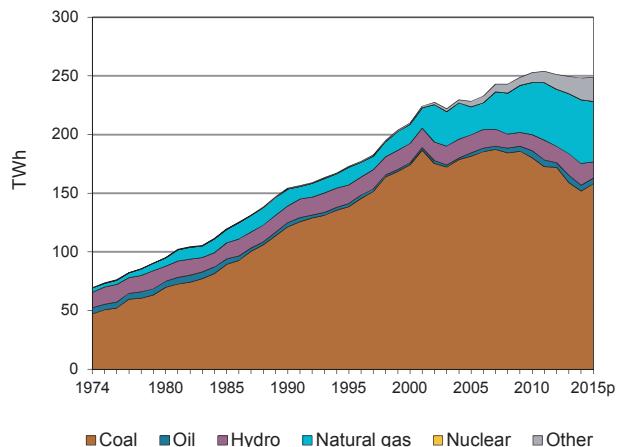


Figure 3. Electricity consumption by sector

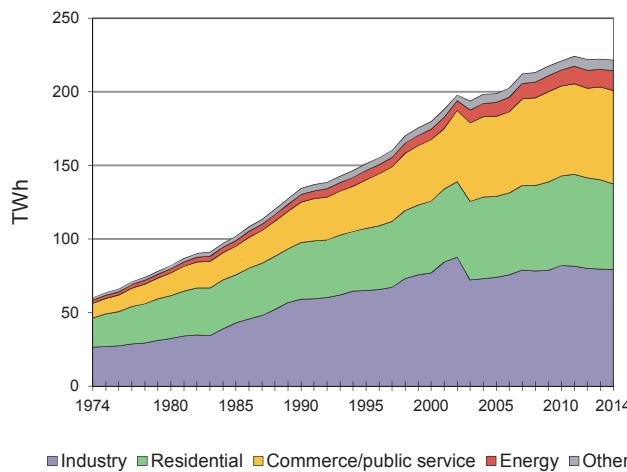


Figure 4. Electricity indicators

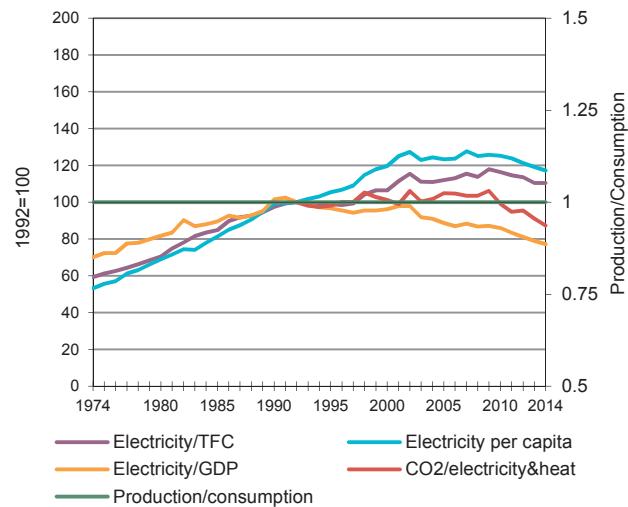
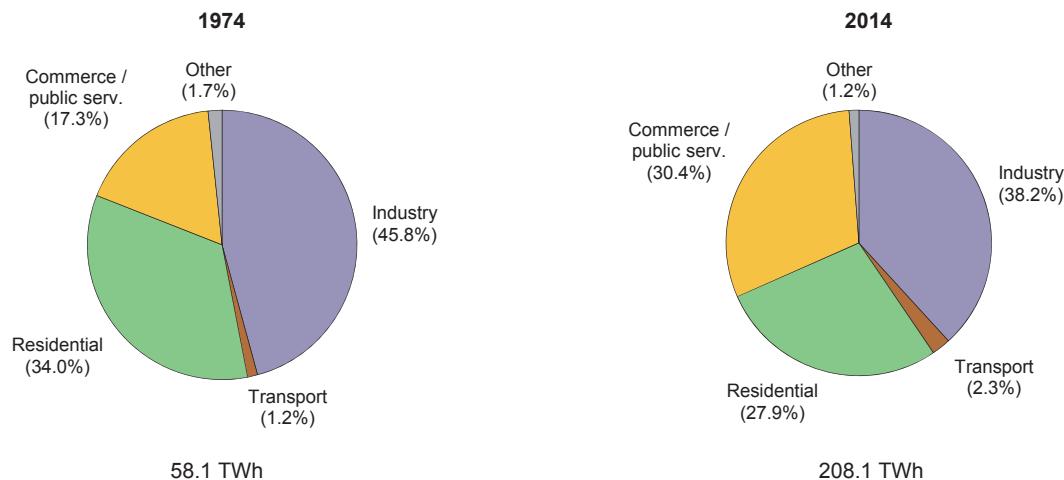


Figure 5. Total final electricity consumption by sector



Australia**Table 1. Energy consumption, GDP and population**

	1974	1990	2000	2010	2013	2014	2015p	74-00	00-15
TPES (Mtoe)	58.93	86.38	108.10	127.63	126.47	125.24	130.60	2.4	1.3
GDP (billion 2005 USD)	420.84	673.27	953.71	1293.20	1407.20	1438.97	1474.64	3.2	2.9
TPES/GDP ¹	0.14	0.13	0.11	0.10	0.09	0.09	0.09	-0.8	-1.6
Population (millions)	13.83	17.17	19.12	22.14	23.27	23.64	23.93	1.3	1.5
TPES/population ²	4.26	5.03	5.65	5.76	5.43	5.30	5.46	1.1	-0.2
TPES/GDP (2005 = 100)	139	128	113	98	90	87	88	-0.8	-1.6
Ele.TFC/GDP(2005=100) ³	82	115	108	97	89	86	..	1.1	..
Ele.TFC/population ⁴	4202	7528	9038	9487	9035	8804	..	3.0	..
Elec. generated (TWh) ⁵	69.60	154.29	209.86	252.65	249.62	248.26	248.59	4.3	1.1

Source: IEA/OECD *World Energy Balances* and OECD *Main Economic Indicators*.**Table 2. Total primary energy supply (TPES) by source**

	1974	1990	2000	2010	2013	2014	2015p	74-00	00-15
TPES (Mtoe)	58.93	86.38	108.10	127.63	126.47	125.24	130.60	2.4	1.3
Coal	22.17	35.13	48.15	50.47	43.72	41.51	46.07	3.0	-0.3
Oil	28.07	31.20	34.15	41.61	44.54	43.75	43.84	0.8	1.7
Natural gas	3.87	14.79	19.27	28.43	30.26	31.69	32.05	6.4	3.5
Biofuels & waste	3.68	3.96	5.03	5.23	5.07	5.08	5.67	1.2	0.8
Nuclear	-	-	-	-	-	-	-	-	-
Geothermal	-	-	-	0.00	0.00	0.00	0.00	-	-
Solar, wind, tide ⁶	0.00	0.08	0.09	0.72	1.33	1.62	1.79	14.6	22.1
Hydro	1.14	1.22	1.41	1.16	1.56	1.58	1.18	0.8	-1.1
Net electricity imports ⁷	-	-	-	-	-	-	-	-	-
Heat	-	-	-	-	-	-	-	-	-

Source: IEA/OECD *World Energy Balances*.

1. In units of toe/2005 thousand US dollars.
2. In units of toe/per capita.
3. Ele.TFC = electricity total final consumption.
4. In units of kWh/per capita.
5. Electricity generated = gross production - amount of electricity produced in pumped storage plants.
6. Includes wave, ocean and other (e.g. fuel cells).
7. Net Imports = total imports - total exports

Australia

Table 3a. Summary electricity production and consumption¹ (TWh)

	1974	1990	2000	2005	2010	2013	2014	2015e
Gross production	70.02	155.02	210.22	228.65	252.70	249.72	248.30	248.69
- Own use by power plant	2.08	10.09	14.82	14.12	15.28	13.85	14.83	-
Net production	67.94	144.93	195.40	214.53	237.42	235.87	233.47	-
- Used for heat pumps	-	-	-	-	-	-	-	-
- Used for electric boilers	-	-	-	-	-	-	-	-
- Used for pumped storage	0.59	1.09	0.57	0.51	0.08	0.17	0.06	0.16
+ Imports	-	-	-	-	-	-	-	-
- Exports	-	-	-	-	-	-	-	-
Electrical energy supplied	67.35	143.84	194.83	214.01	237.34	235.70	233.41	..
- Transmission & distr. losses	7.18	9.50	14.98	15.35	16.37	13.33	11.87	..
- Statistical difference	-	-	-	-	0.13	0.21	0.00	..
Total consumption	60.17	134.34	179.85	198.66	220.85	222.17	221.54	..
Energy industry consumption²	2.07	5.13	7.10	9.43	10.84	11.99	13.49	..
Coal Mines	0.98	2.94	4.21	4.99	5.37	6.06	6.53	..
Oil + Gas Extraction	0.12	0.81	1.14	2.19	3.10	3.38	4.87	..
Patent Fuel Plants	-	-	-	-	-	-	-	..
Coke Ovens	0.16	0.16	0.14	0.02	0.07	0.14	0.14	..
BKB plants	0.08	0.04	0.06	0.25	0.15	0.05	0.04	..
Gas Works	0.03	0.02	0.01	0.00	0.00	0.03	0.05	..
Blast Furnaces	-	-	-	0.04	0.07	0.14	0.14	..
Oil Refineries	0.71	1.16	1.53	1.86	1.82	1.68	1.22	..
Nuclear Industry	-	-	-	-	-	-	-	..
Coal Liquefaction Plants	-	-	-	-	-	-	-	..
LNG/Regasification Plants	-	-	-	-	0.12	0.21	0.19	..
Energy - Non Specified	-	-	-	0.09	0.15	0.29	0.31	..
Final consumption	58.10	129.21	172.75	189.23	210.01	210.18	208.06	..
Industry	26.60	59.18	77.03	74.06	82.10	79.65	79.48	..
Iron and steel	4.45	4.87	5.25	3.80	3.53	3.39	3.28	..
Chem. and petrochemical	1.96	3.83	4.69	5.61	4.96	4.35	4.11	..
Non-ferrous metals	6.92	26.27	35.76	38.74	43.32	38.37	37.96	..
Non-metallic minerals	1.73	2.92	3.49	4.20	4.62	4.56	4.39	..
Transport equipment	0.82	1.38	3.09
Machinery	1.53	2.60	1.84	2.82	2.53	1.95	1.81	..
Mining and quarrying	3.05	5.97	9.08	8.20	11.94	15.57	16.65	..
Food and tobacco	2.29	4.49	5.59	5.21	5.38	5.72	5.92	..
Paper, pulp and printing	1.94	4.95	6.02	4.26	4.02	4.10	3.89	..
Wood and wood products	0.53	-	-	-	0.98	0.73	0.67	..
Construction	0.02	0.03	0.06	0.08	0.08	0.14	0.17	..
Textile and leather	1.36	1.87	2.07	0.92	0.72	0.74	0.61	..
Non specified/other	-	-	0.08	0.22	0.03	0.03	0.03	..
Transport	0.70	1.81	2.34	3.46	3.67	4.77	4.77	..
Rail Transport	0.70	1.81	1.95	2.30	2.09	2.49	2.53	..
Pipeline Transport	-	-	0.00	0.00	0.05	0.35	0.23	..
Road	-	-	-	-	-	-	-	..
Transport Non Specified	-	-	0.38	1.15	1.52	1.93	2.01	..
Commercial & publ. serv.	19.75	38.54	48.76	54.84	60.66	60.54	58.03	..
Residential	10.07	27.31	41.74	54.47	61.10	63.00	63.31	..
Agriculture	0.98	2.37	2.88	2.40	2.34	2.22	2.46	..
Fishing	-	-	-	-	-	-	-	..
Sector non specified	-	-	-	-	0.14	-	-	..

1. Electricity generation from main activity producer power plants and autoproducers .

2. Energy industry consumption = electricity consumed by transformation industries for heating, traction and lighting purposes;

excludes own use by power plant and electricity used for heat pumps, electric boilers and pumped storage.

Australia

Table 4a. Gross electricity production by source (TWh)

	1974	1990	2000	2010	2013	2014	2015e	74-00	00-15
Total plants gross production¹	70.02	155.02	210.22	252.70	249.72	248.30	248.69	4.3	1.1
Nuclear	-	-	-	-	-	-	-	-	-
Hydro	13.61	14.88	16.72	13.55	18.27	18.42	13.86	0.8	-1.2
- Of which pumped storage	0.41	0.73	0.36	0.05	0.10	0.04	0.10	-0.5	-8.4
Geothermal	-	-	-	0.00	0.00	0.00	0.00	-	-
Solar	-	-	0.04	0.43	3.83	4.86	6.12	-	40.3
Wind	-	-	0.06	5.05	7.96	10.25	10.83	-	41.7
Combustible fuels	56.40	140.14	193.41	233.67	219.66	214.77	217.88	4.9	0.8
- Coal	..	121.48	174.25 e	180.21	159.05	151.85	158.02	-	-0.6
- Oil	..	3.55 e	1.78 e	6.10	6.41	5.01	4.84	-	6.9
- Natural gas	..	14.36	16.25 e	44.59	51.05	54.39	51.73	-	8.0
- Biofuels & waste	..	0.75	1.13 e	2.78	3.15	3.51	3.30	-	7.4
Other ²	-	-	-	-	-	-	-	-	-
Of which autoproducers	6.89	6.47	9.50	18.53	23.36	24.36	..	1.2	..
Nuclear	-	-	-	-	-	-	..	-	..
Hydro	0.04	-	-	-	-	-	..	-	..
- Of which pumped storage	-	-	-	-	-	-	..	-	..
Geothermal	-	-	-	-	-	-	..	-	..
Solar	-	-	0.04	0.42	3.82	4.85	..	-	..
Wind	-	-	-	-	-	-	..	-	..
Combustible fuels	6.85	6.47	9.47	18.11	19.54	19.50	..	1.3	..
- Coal	..	2.21	1.68 e	0.42	-	-	..	-	-
- Oil	..	2.06	1.02 e	5.01	5.26	4.12	..	-	-
- Natural gas	..	1.45	5.63 e	10.72	12.27	13.07	..	-	-
- Biofuels & waste	..	0.75	1.13 e	1.97	2.01	2.31	..	-	-
Other ²	-	-	-	-	-	-	..	-	..

Table 4b. Gross heat production by source (PJ)

	1974	1990	2000	2010	2013	2014	2015e	74-00	00-15
Total plants heat generation³	5.01	2.27	-	-	-	-	-	-	-
Nuclear	-	-	-	-	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-	-	-
Combustible fuels	5.01	2.27	-	-	-	-	-	-	-
- Coal	..	2.27	-	-	-	-	-	..	-
- Oil	..	-	-	-	-	-	-	..	-
- Natural gas	..	-	-	-	-	-	-	..	-
- Biofuels & waste	..	-	-	-	-	-	-	..	-
Chemical processes	-	-	-	-	-	-	-	-	-
Heat pumps	-	-	-	-	-	-	-	-	-
Electric boilers	-	-	-	-	-	-	-	-	-
Other sources	-	-	-	-	-	-	-	-	-
Of which Autoproducers	-	-	-	-	-	-	..	-	..
Nuclear	-	-	-	-	-	-	..	-	..
Geothermal	-	-	-	-	-	-	..	-	..
Combustible fuels	-	-	-	-	-	-	..	-	..
- Coal	..	-	-	-	-	-	..	-	..
- Oil	..	-	-	-	-	-	..	-	..
- Natural gas	..	-	-	-	-	-	..	-	..
- Biofuels & waste	..	-	-	-	-	-	..	-	..
Chemical processes	-	-	-	-	-	-	..	-	..
Heat pumps	-	-	-	-	-	-	..	-	..
Electric boilers	-	-	-	-	-	-	..	-	..
Other sources	-	-	-	-	-	-	..	-	..

1. Electricity generated from main activity producer power plants and autoproducers.

2. Includes wave, ocean and other sources (e.g. fuel cells, electricity from chemical heat).

3. Total heat generation = gross production of heat from main activity producer + heat sold in autoproducers.

Australia**Table 5. Net electricity production by autoproducers (GWh)**

	1974	1990	2000	2010	2012	2013	2014	74-00	00-14
Total	6655	6003	8778	16988	18219	22131	23008	1.1	7.1
Total energy	-	1134	1695	4098	4395	5337	5549	-	8.8
Coal mines	-	1	1	51	55	66	69	-	35.3
Oil and gas extraction	-	831	1252	3931	4216	5121	5323	-	10.9
Patent fuel plants	-	-	-	-	-	-	-	-	-
Coke ovens	-	-	-	-	-	-	-	-	-
Gas works	-	-	-	-	-	-	-	-	-
BKB	-	302	442	116	124	150	157	-	-7.1
Oil refineries	-	-	-	-	-	-	-	-	-
Energy non specified/other	-	-	-	-	-	-	-	-	-
Total industry	6637	4658	6782	11978	12845	15604	16224	0.1	6.4
Iron and steel	970	24	197	423	454	551	574	-5.9	7.9
Chemical and petrochemical	240	41	61	957	1026	1246	1296	-5.1	24.4
Non-ferrous metals	1953	304	4325	4581	4913	5968	6205	3.1	2.6
Non-metallic minerals	246	-	-	-	-	-	-	-	-
Transport equipment	-	-	-	-	-	1	1	-	-
Machinery	6	-	-	-	-	-	-	-	-
Mining and quarrying	2228	36	1991	3805	4081	4957	5154	-0.4	7.0
Food and tobacco	287	80	123	1225	1314	1597	1659	-3.2	20.4
Pulp and printing	473	56	85	664	712	865	900	-6.4	18.4
Wood and wood products	25	-	-	-	-	-	-	-	-
Construction	-	-	-	316	338	411	427	-	-
Textile and leather	-	-	-	-	-	-	-	-	-
Non specified/other industries	209	4117	-	7	7	8	8	-	-
Total transport	-	1	1	641	688	836	868	-	62.1
Rail	-	-	-	558	599	727	756	-	-
Pipeline	-	-	-	23	25	31	31	-	-
Transport non specified	-	1	1	60	64	78	81	-	36.9
Other	18	210	300	271	291	354	367	11.4	1.5
Commerce and pub. services	-	210	300	271	291	354	367	-	1.5
Residential	-	-	-	-	-	-	-	-	-
Agriculture	-	-	-	-	-	-	-	-	-
Fishing	-	-	-	-	-	-	-	-	-
Sector non specified	18	-	-	-	-	-	-	-	-

Notes: Data reported in this table prior to 1990 may refer to combustible fuels only.

Australia**Table 6a. Electricity production from combustible fuels in electricity plants¹**

	1990	2000	2005	2010	2012	2013	2014	90-00	00-14
Steam coal									
Fuel input (1000 t)	38197	51100 e	56166	51056	46888	45676	42510	3.0	-1.3
Fuel input (TJ)	794476	1115347 e	1160863	1211427	1112527	1083756	1008645	3.5	-0.7
Electricity production (GWh)	87573	123833 e	122840	122521	115520	110407	104744	3.5	-1.2
Lignite									
Fuel input (1000 t)	42901	66338 e	66736	70127	69722	60855	59150	4.5	-0.8
Fuel input (TJ)	399190	606843 e	654013	722306	718132	626808	609245	4.3	0.0
Electricity production (GWh)	33063	50200 e	51805	54867	53888	46537	45089	4.3	-0.8
Coal manufactured gases²									
Fuel input (TJ)	524	596 e	3898	3442	2883	-	-	1.3	-
Electricity production (GWh)	57	66 e	434	418	425	-	-	1.5	-
Other coal products³									
Fuel input (1000 t)	136	78	65	55	66	49	41	-5.4	-4.5
Fuel input (TJ)	2855	1638	1365	1209	1449	1088	900	-5.4	-4.2
Electricity production (GWh)	254	146	127	81	80	69	67	-5.4	-5.4
Oil and petroleum products									
Fuel input (1000 t)	930 e	516 e	810	1329	813	1426	1054	-5.7	5.2
Fuel input (TJ)	38504 e	19954 e	36053	60210	36671	64515	47615	-6.4	6.4
Electricity production (GWh)	3552 e	1784 e	2841	5810	3611	6107	4776	-6.7	7.3
Natural gas²									
Fuel input (TJ)	161478	188882	197891	373065	422708	425087	436049	1.6	6.2
Electricity production (GWh)	14359	16245 e	18494	36624	39899	41938	44682	1.2	7.5
Solid biofuels									
Fuel input (TJ)	-	-	11186	1948	1315	1182	1731	-	-
Electricity production (GWh)	-	-	522	182	147	161	194	-	-
Industrial waste									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
Municipal waste									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
Biogases and liquid biofuels									
Fuel input (TJ)	-	-	6278	7314	8106	7210	8599	-	-
Electricity production (GWh)	-	-	543	624	997	983	1004	-	-
Total combustible fuels									
Electricity production (GWh)	138858 e	192274 e	197606	221127	214567	206202	200556	3.3	0.3

1. Excludes CHP plants.

2. Coal manufactured gases and natural gas are expressed on a gross calorific value basis.

3. Includes Coking coal as well as peat and peat products, patent fuels, BKB and shale oil

Australia**Table 6b. Electricity and heat produced for sale from combustible fuels
in combined heat and power plants (CHP plants)**

	1990	2000	2005	2010	2012	2013	2014	90-00	00-14
Steam coal									
Fuel input (1000 t)	-	-	3005	604	554	540	503	-	-
Fuel input (TJ)	-	-	58444	11744	10785	10506	9778	-	-
Electricity production (GWh)	-	-	4949	1203	1134	1084	1029	-	-
CHP Heat production (TJ)	-	-	-	-	-	-	-	-	-
Lignite									
Fuel input (1000 t)	1236	-	1362	1431	1423	1242	1207	-	-
Fuel input (TJ)	12211	-	14028	14741	14656	12792	12434	-	-
Electricity production (GWh)	531	-	1445	1120	1100	950	920	-	-
CHP Heat production (TJ)	2269	-	-	-	-	-	-	-	-
Coal manufactured gases¹									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
CHP Heat production (TJ)	-	-	-	-	-	-	-	-	-
Other coal products²									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
CHP Heat production (TJ)	-	-	-	-	-	-	-	-	-
Petroleum products									
Fuel input (1000 t)	-	-	-	46	29	48	38	-	-
Fuel input (TJ)	-	-	-	2158	1342	2269	1793	-	-
Electricity production (GWh)	-	-	-	288	179	303	237	-	-
CHP Heat production (TJ)	-	-	-	-	-	-	-	-	-
Natural gas¹									
Fuel input (TJ)	-	-	53630	81088	91878	92395	94777	-	-
Electricity production (GWh)	-	-	5309	7961	8673	9116	9712	-	-
CHP Heat production (TJ)	-	-	-	-	-	-	-	-	-
Solid Biofuels									
Fuel input (TJ)	29683 e	23310 e	64966	16864	11385	10233	14980	-2.4	-3.1
Electricity production (GWh)	750	685 e	2715	1579	1272	1390	1682	-0.9	6.6
CHP Heat production (TJ)	-	-	-	-	-	-	-	-	-
Industrial waste									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
CHP Heat production (TJ)	-	-	-	-	-	-	-	-	-
Municipal waste									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
CHP Heat production (TJ)	-	-	-	-	-	-	-	-	-
Biogases and liquid biofuels									
Fuel input (TJ)	-	5780	543	4598	5096	4533	5406	-	-0.5
Electricity production (GWh)	-	449	50	392	627	618	631	-	2.5
CHP Heat production (TJ)	-	-	-	-	-	-	-	-	-
Total combustible fuels									
Electricity production (GWh)	1281	1134 e	14468	12543	12985	13461	14211	-1.2	19.8
CHP Heat production (TJ)	2269	-	-	-	-	-	-	-	-

1. Coal manufactured gases and natural gas are expressed on a gross calorific value basis.

2. Includes Coking coal as well as peat and peat products, patent fuels, BKB and shale oil

Australia**Table 7. Net maximum electricity generating capacity on 31 December (GW)**

	1974	1990	2000	2005	2010	2012	2013	2014
Total capacity¹	19.25	38.45	46.20	50.14	60.61	64.16	64.69	66.56
Nuclear	-	-	-	-	-	-	-	-
Hydro	5.32	8.32	9.20	8.54	8.77	8.79	8.04	8.05
<i>of which: pumped storage</i>	-	0.94	1.49	0.74	0.74	0.74	0.74	0.74
Geothermal	-	-	-	-	-	-	-	-
Solar PV	-	-	0.03	0.05	0.40	2.43	3.26	4.00
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	-	0.03	0.74	1.86	2.56	3.22	3.80
Other (e.g. fuel cells)	-	-	-	-	-	-	-	-
Combustible fuels	13.93	30.13	36.95	40.82	49.57	50.38	50.17	50.70
<i>of which⁽²⁾:</i>								
<i>Single-fired:</i>								
Coal and Coal products	11.50	24.04	26.73	29.01	29.68	29.90	28.91	28.97
Liquid fuels	1.43	1.59	1.93	1.09	2.18	1.71	2.14	1.99
Natural gas	0.10	3.23	5.50 e	8.38	15.86	16.95	17.27	17.80
Biofuels & waste	0.02	0.24	0.36	0.87	0.62	0.60	0.63	0.73
<i>Multi-fired:</i>								
Solid / liquid	0.15	-	-	-	-	-	-	-
Solid / natural gas	-	-	1.92	0.88	0.64	0.64	0.64	0.64
Liquid / natural gas	0.72	0.16	0.51	0.59	0.59	0.59	0.59	0.58
Solid / liquid / gas	-	0.88	-	-	-	-	-	-
<i>Type of generation</i>								
Steam	13.34	27.42	31.98	32.77	33.25	33.42	32.48	32.63
Internal combustion	0.28	0.58	0.42	0.58	1.09	1.04	1.20	1.20
Gas turbine	0.31	1.95	3.86	5.16	10.57	11.20	11.64	11.81
Combined cycle	-	0.19	0.68	2.31	4.66	4.73	4.86	5.07
Other	-	-	-	-	-	-	-	-
<i>Peak load</i>	12.46	25.01	33.63	38.13	42.05	40.12	40.12	40.33
Of which Autoproducers	-	2.96	3.37	3.51	4.88	6.60	8.17	8.90
Nuclear	-	-	-	-	-	-	-	-
Hydro	-	-	-	-	-	-	-	-
<i>of which: pumped storage</i>	-	-	-	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-	-
Solar PV	-	-	0.03	0.05	0.40	2.43	3.26	4.00
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	-	-	-	-	-	-	-
Other (e.g. fuel cells)	-	-	-	-	-	-	-	-
Combustible fuels	-	2.96	3.35	3.46	4.48	4.17	4.91	4.90

1. Sum of available capacity figures

2. Breakdown of electrical capacity by type of fuel are shown in the individual country chapters.

Australia**Table 8. Capacity factors (%)**

	1974	1990	2000	2005	2010	2012	2013	2014
Total plants¹	41.5	46.0	51.9	52.1	47.6	44.7	44.1	42.6
Nuclear	-	-	-	-	-	-	-	-
Hydro	29.2	20.4	20.7	20.9	17.6	18.3	26.0	26.1
<i>of which: pumped storage</i>	-	8.9	2.8	4.7	0.7	0.9	1.5	0.5
Geothermal	-	-	-	-	-	-	-	-
Solar PV	-	-	17.4	17.1	12.1	12.0	13.4	13.8
Solar thermal	-	-	-	-	15.2	7.6	11.4	15.2
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	-	20.1	13.7	30.9	31.1	28.2	30.8
Other (e.g. fuel cells)	-	-	-	-	-	-	-	-
Combustible fuels	46.2	53.1	59.8	59.3	53.8	51.6	50.0	48.4
Of which autoproducers	-	25.0	32.2	40.6	43.4	34.0	32.7	31.2
Nuclear	-	-	-	-	-	-	-	-
Hydro	-	-	-	-	-	-	-	-
<i>of which: pumped storage</i>	-	-	-	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-	-
Solar PV	-	-	17.4	17.1	12.0	12.0	13.4	13.8
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	-	-	-	-	-	-	-
Other (e.g. fuel cells)	-	-	-	-	-	-	-	-
Combustible fuels	-	25.0	32.3	40.9	46.1	46.9	45.4	45.5

1. The capacity factor is defined as: the annual gross electricity generation (in GWh) divided by the net capacity (in GW) times 365 (days/year) times 24 (hours/day)

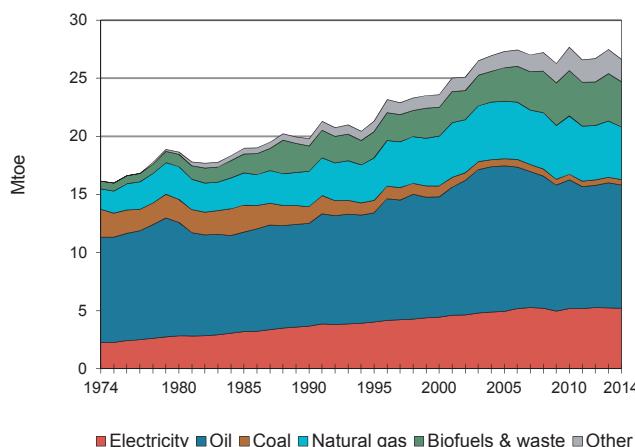
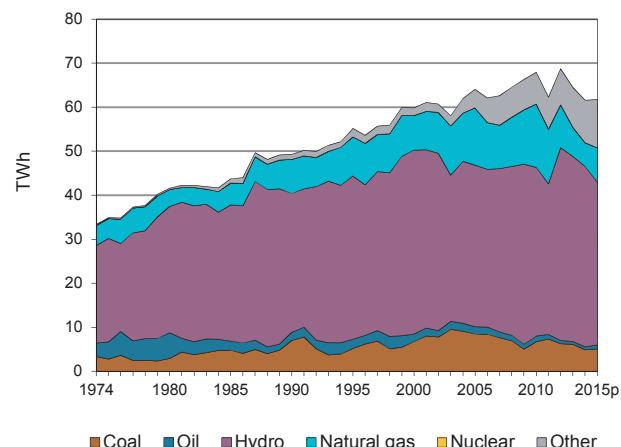
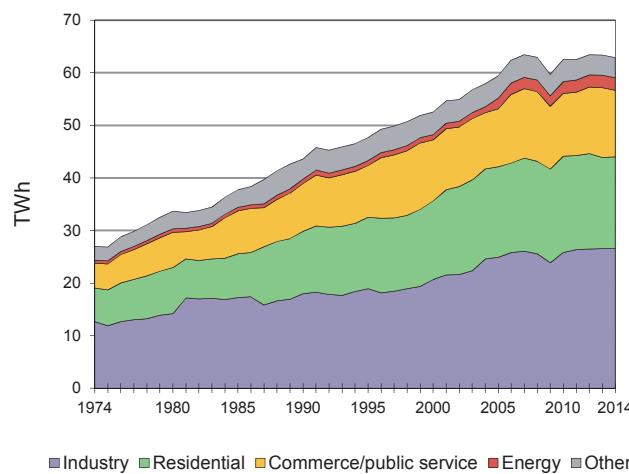
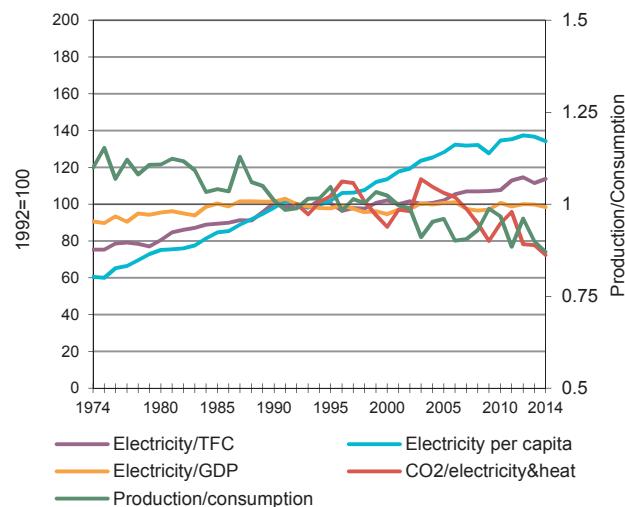
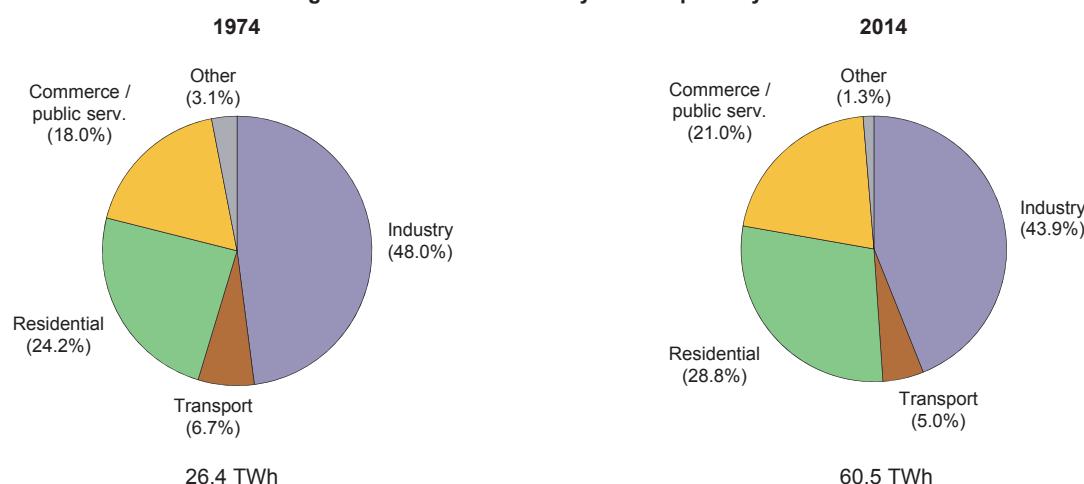
Australia**Table 10a. Share of electricity in total final consumption (%)**

	1974	1990	2000	2005	2010	2012	2013	2014
Share of total final consumption	12.4	19.6	21.4	22.5	23.5	22.9	22.3	22.1
Industry	14.0	26.4	27.8	28.6	30.5	29.0	27.5	28.0
Iron and steel	11.5	17.6	19.6	17.7	27.2	24.7	29.1	28.1
Chem. and petrochemical	10.0	19.8	20.3	19.6	18.0	17.3	16.2	14.6
Non-ferrous metals	20.5	37.0	38.1	39.9	45.0	40.5	37.2	38.4
Non-metallic minerals	6.7	11.8	14.8	14.8	15.7	16.7	17.3	17.5
Transport equipment	29.8	44.3	93.1
Machinery	39.3	53.1	41.0	61.9	59.9	56.1	57.4	59.7
Mining and quarrying	31.1	40.7	36.6	39.6	43.5	35.5	33.4	34.3
Food and tobacco	7.6	16.8	14.5	18.0	12.9	14.6	13.1	14.3
Paper, pulp and printing	17.3	29.8	29.7	23.3	26.7	29.0	28.9	28.4
Wood and wood products	14.4	-	-	-	17.8	17.3	17.0	14.1
Construction	0.3	0.3	0.5	1.1	1.2	1.2	2.2	2.6
Textile and leather	31.0	45.5	50.3	30.6	31.0	31.6	31.4	27.2
Non specified/other	-	-	100.0	44.3	9.6	15.3	12.2	13.7
Transport	0.5	0.7	0.8	1.1	1.1	1.1	1.3	1.3
Rail Transport	9.7	21.8	22.4	24.4	18.9	17.8	18.4	18.3
Pipeline Transport	-	-	0.1	0.1	1.9	2.5	12.2	8.6
Road	-	-	-	-	-	-	-	-
Transport Non Specified	-	-	77.3	43.3	51.6	52.0	52.5	54.8
Other sectors	32.4	47.8	51.1	53.9	55.0	54.8	54.3	53.3
Commercial & publ. serv.	44.4	67.5	71.2	75.1	75.4	75.1	75.6	74.0
Residential	31.7	44.3	46.3	50.8	50.9	50.6	49.7	48.3
Agriculture	9.8	15.7	15.4	8.9	9.2	8.9	8.5	9.3
Fishing	-	-	-	-	-	-	-	-
Sector non specified	-	-	-	-	100.0	100.0	-	-

Table 10b. Share of heat in total final consumption (%)

	1974	1990	2000	2005	2010	2012	2013	2014
Share of total final consumption	-	-	-	-	-	-	-	-
Industry	-	-	-	-	-	-	-	-
Iron and steel	-	-	-	-	-	-	-	-
Chem. and petrochemical	-	-	-	-	-	-	-	-
Non-ferrous metals	-	-	-	-	-	-	-	-
Non-metallic minerals	-	-	-	-	-	-	-	-
Transport equipment	-	-	-	-	-	-	-	-
Machinery	-	-	-	-	-	-	-	-
Mining and quarrying	-	-	-	-	-	-	-	-
Food and tobacco	-	-	-	-	-	-	-	-
Paper, pulp and printing	-	-	-	-	-	-	-	-
Wood and wood products	-	-	-	-	-	-	-	-
Construction	-	-	-	-	-	-	-	-
Textile and leather	-	-	-	-	-	-	-	-
Non specified/other	-	-	-	-	-	-	-	-
Transport	-	-	-	-	-	-	-	-
Other sectors	-	-	-	-	-	-	-	-
Commercial & publ. serv.	-	-	-	-	-	-	-	-
Residential	-	-	-	-	-	-	-	-
Agriculture	-	-	-	-	-	-	-	-
Fishing	-	-	-	-	-	-	-	-
Sector non specified	-	-	-	-	-	-	-	-

Source: IEA/OECD *World Energy Balances*.

Austria**Figure 1. Total final consumption by fuel****Figure 2. Electricity generation by fuel****Figure 3. Electricity consumption by sector****Figure 4. Electricity indicators****Figure 5. Total final electricity consumption by sector**

Austria**Table 1. Energy consumption, GDP and population**

	1974	1990	2000	2010	2013	2014	2015p	74-00	00-15
TPES (Mtoe)	20.75	24.88	28.61	33.88	33.23	32.16	32.84	1.2	0.9
GDP (billion 2005 USD)	177.36	259.41	336.02	390.21	405.51	406.94	410.45	2.5	1.3
TPES/GDP ¹	0.12	0.10	0.09	0.09	0.08	0.08	0.08	-1.2	-0.4
Population (millions)	7.60	7.68	8.01	8.36	8.48	8.54	8.57	0.2	0.4
TPES/population ²	2.73	3.24	3.57	4.05	3.92	3.76	3.83	1.0	0.5
TPES/GDP (2005 = 100)	127	104	93	95	89	86	87	-1.2	-0.4
Ele.TFC/GDP(2005=100) ³	95	105	98	99	96	95	..	0.1	..
Ele.TFC/population ⁴	3477	5572	6435	7217	7200	7080	..	2.4	..
Elec. generated (TWh) ⁵	33.41	49.30	59.87	67.93	64.52	61.60	61.76	2.3	0.2

Source: IEA/OECD *World Energy Balances* and OECD *Main Economic Indicators*.**Table 2. Total primary energy supply (TPES) by source**

	1974	1990	2000	2010	2013	2014	2015p	74-00	00-15
TPES (Mtoe)	20.75	24.88	28.61	33.88	33.23	32.16	32.84	1.2	0.9
Coal	4.08	4.10	3.60	3.38	3.32	3.06	3.21	-0.5	-0.8
Oil	10.73	10.35	11.71	12.29	11.62	11.37	11.59	0.3	-0.1
Natural gas	3.59	5.23	6.58	8.12	7.06	6.44	6.88	2.4	0.3
Biofuels & waste	0.70	2.50	3.13	6.21	6.45	6.35	6.40	5.9	4.9
Nuclear	-	-	-	-	-	-	-	-	-
Geothermal	-	0.00	0.02	0.03	0.04	0.03	0.03	-	1.7
Solar, wind, tide ⁶	-	0.01	0.07	0.35	0.50	0.58	0.68	-	16.6
Hydro	1.91	2.71	3.60	3.30	3.61	3.53	3.18	2.5	-0.8
Net electricity imports ⁷	-0.25	-0.04	-0.12	0.20	0.63	0.80	0.86	-2.9	-
Heat	-	-	0.00	0.00	0.00	0.00	0.00	-	-3.8

Source: IEA/OECD *World Energy Balances*.

1. In units of toe/2005 thousand US dollars.
2. In units of toe/per capita.
3. Ele.TFC = electricity total final consumption.
4. In units of kWh/per capita.
5. Electricity generated = gross production - amount of electricity produced in pumped storage plants.
6. Includes wave, ocean and other (e.g. fuel cells).
7. Net Imports = total imports - total exports

Austria**Table 3a. Summary electricity production and consumption¹ (TWh)**

	1974	1990	2000	2005	2010	2013	2014	2015e
Gross production	33.88	50.29	61.26	66.41	71.13	68.28	65.42	65.30
- Own use by power plant	1.00	1.92	2.20	2.86	2.99	3.42	3.08	-
Net production	32.88	48.38	59.05	63.55	68.14	64.86	62.34	-
- Used for heat pumps	-	-	-	-	-	-	-	-
- Used for electric boilers	-	0.00	0.01	-	-	-	-	-
- Used for pumped storage	0.68	1.43	1.92	3.35	4.56	5.37	5.47	5.05
+ Imports	3.17	6.84	13.82	20.40	19.90	24.96	26.71	29.37
- Exports	6.13	7.30	15.19	17.73	17.57	17.69	17.44	19.31
Electrical energy supplied	29.24	46.49	55.75	62.87	65.91	66.76	66.15	..
- Transmission & distr. losses	2.28	2.91	3.20	3.43	3.35	3.39	3.28	..
- Statistical difference	-	-	-	-	-	-	-	..
Total consumption	26.96	43.58	52.55	59.43	62.56	63.37	62.86	..
Energy industry consumption²	0.55	0.81	1.01	2.02	2.24	2.36	2.40	..
Coal Mines	0.07	0.06	0.04	-	-	-	-	..
Oil + Gas Extraction	0.08	0.09	0.11	0.09	0.15	0.23	0.30	..
Patent Fuel Plants	-	-	-	-	-	-	-	..
Coke Ovens	-	-	0.03	0.03	0.03	0.03	0.03	..
BKB plants	-	-	-	-	-	-	-	..
Gas Works	-	-	-	-	-	-	-	..
Blast Furnaces	-	-	0.15	1.10	1.13	1.24	1.21	..
Oil Refineries	0.39	0.65	0.68	0.78	0.91	0.86	0.86	..
Nuclear Industry	-	-	-	-	-	-	-	..
Coal Liquefaction Plants	-	-	-	-	-	-	-	..
LNG/Regasification Plants	-	-	-	-	-	-	-	..
Energy - Non Specified	-	0.01	0.01	0.02	0.02	-	-	..
Final consumption	26.41	42.77	51.54	57.42	60.32	61.01	60.47	..
Industry	12.67	17.98	20.68	24.89	25.84	26.57	26.57	..
Iron and steel	2.03	1.18	2.67	2.77	2.28	2.42	2.44	..
Chem. and petrochemical	2.20	2.14	3.08	3.51	4.27	4.42	4.16	..
Non-ferrous metals	1.91	1.39	0.65	0.80	0.85	0.97	1.01	..
Non-metallic minerals	1.19	1.38	1.79	1.95	1.88	1.82	1.84	..
Transport equipment	0.22	0.42	0.71	0.98	0.70	0.71	0.77	..
Machinery	1.01	1.57	2.25	2.94	3.56	3.77	3.78	..
Mining and quarrying	0.46	0.43	0.57	0.67	1.16	1.05	1.16	..
Food and tobacco	0.62	1.50	1.20	1.76	2.07	2.15	2.21	..
Paper, pulp and printing	1.87	3.63	4.69	4.94	4.71	4.62	4.69	..
Wood and wood products	0.39	0.65	0.95	1.62	1.68	1.83	1.81	..
Construction	0.07	0.46	0.39	0.70	0.61	0.66	0.64	..
Textile and leather	0.65	0.72	0.59	0.61	0.43	0.46	0.43	..
Non specified/other	0.07	2.52	1.14	1.65	1.63	1.68	1.63	..
Transport	1.78	2.77	3.46	3.43	3.43	3.07	3.02	..
Rail Transport	1.78	2.11	2.57	2.12	2.24	2.05	2.01	..
Pipeline Transport	-	0.14	0.17	0.18	0.15	0.17	0.17	..
Road	-	0.02	0.02	0.01	0.02	0.02	0.01	..
Transport Non Specified	-	0.51	0.70	1.12	1.03	0.84	0.83	..
Commercial & publ. serv.	6.40	11.88	14.96	17.26	18.30	17.32	17.44	..
Residential	4.76	9.08	11.59	10.99	11.95	13.27	12.67	..
Agriculture	0.81	1.06	0.85	0.85	0.80	0.79	0.78	..
Fishing	-	-	-	-	-	-	-	..
Sector non specified	-	-	-	-	-	-	-	..

1. Electricity generation from main activity producer power plants and autoproducers .

2. Energy industry consumption = electricity consumed by transformation industries for heating, traction and lighting purposes;

excludes own use by power plant and electricity used for heat pumps, electric boilers and pumped storage.

Austria**Table 3b. Summary heat production and consumption¹ (TJ)**

	1974	1990	2000	2005	2010	2013	2014	2015e
Gross production	-	28447	47883	61603	84585	87585	79998	84513
- Own use by power plant	-	-	-	-	-	-	-	-
Net production	-	28447	47883	61603	84585	87585	79998	-
- Used for electricity production	-	-	190	33	155	99	95	106
+ Imports	-	-	-	-	-	-	-	-
- Exports	-	-	-	-	-	-	-	-
Heat energy supplied	-	28447	47693	61570	84430	87486	79903	..
- Transmission & distr. losses	-	2810	4995	7815	7303	7595	6953	..
- Statistical difference	-	1	-	-	-	-	-1	..
Total consumption	-	25636	42698	53755	77127	79891	72951	..
Energy industry consumption²	-	-	-	-	-	-	-	..
Coal Mines	-	-	-	-	-	-	-	..
Oil + Gas Extraction	-	-	-	-	-	-	-	..
Patent Fuel Plants	-	-	-	-	-	-	-	..
Coke Ovens	-	-	-	-	-	-	-	..
BKB plants	-	-	-	-	-	-	-	..
Gas Works	-	-	-	-	-	-	-	..
Blast Furnaces	-	-	-	-	-	-	-	..
Oil Refineries	-	-	-	-	-	-	-	..
Nuclear Industry	-	-	-	-	-	-	-	..
Coal Liquefaction Plants	-	-	-	-	-	-	-	..
LNG/Regasification Plants	-	-	-	-	-	-	-	..
Energy - Non Specified	-	-	-	-	-	-	-	..
Final consumption	-	25636	42698	53755	77127	79891	72951	..
Industry	-	3313	5100	7840	9964	11537	11157	..
Iron and steel	-	1	7	242	180	804	391	..
Chem. and petrochemical	-	579	1543	1445	2699	2924	2819	..
Non-ferrous metals	-	4	57	110	86	93	53	..
Non-metallic minerals	-	5	19	25	24	27	22	..
Transport equipment	-	348	693	949	854	799	754	..
Machinery	-	312	807	868	1425	1558	1420	..
Mining and quarrying	-	7	13	13	12	13	10	..
Food and tobacco	-	612	531	634	1219	1196	1227	..
Paper, pulp and printing	-	1128	836	897	811	965	1024	..
Wood and wood products	-	63	216	1844	1795	2210	2549	..
Construction	-	57	146	390	366	369	382	..
Textile and leather	-	82	98	79	42	42	42	..
Non specified/other	-	115	134	344	451	537	464	..
Transport	-	-	-	-	-	-	-	..
Commercial & publ. serv.	-	10313	16014	26039	42199	35578	33952	..
Residential	-	11866	21360	19574	24549	32349	27449	..
Agriculture	-	144	224	302	415	427	393	..
Fishing	-	-	-	-	-	-	-	..
Sector non specified	-	-	-	-	-	-	-	..

1. Heat generation from main activity producer power plants and autoproducers.

2. Energy industry consumption = electricity consumed by transformation industries for heating, traction and lighting purposes;

excludes own use by power plant and electricity used for heat pumps, electric boilers and pumped storage.

Austria**Table 4a. Gross electricity production by source (TWh)**

	1974	1990	2000	2010	2013	2014	2015e	74-00	00-15
Total plants gross production¹	33.88	50.29	61.26	71.13	68.28	65.42	65.30	2.3	0.4
Nuclear	-	-	-	-	-	-	-	-	-
Hydro	22.66	32.51	43.22	41.56	45.78	44.83	40.56	2.5	-0.4
- Of which pumped storage	0.48	1.00	1.38	3.20	3.76	3.83	3.54	4.2	6.5
Geothermal	-	-	-	0.00	-	-	-	-	-
Solar	-	-	0.00	0.09	0.58	0.79	0.95	-	46.7
Wind	-	-	0.07	2.06	3.15	3.85	4.84	-	33.0
Combustible fuels	11.22	17.79	17.95	27.40	18.75	15.95	18.94	1.8	0.4
- Coal	..	7.01	6.74	6.70	6.10	4.91	5.09	..	-1.9
- Oil	..	1.88	1.70	1.27	0.70	0.61	0.87	..	-4.4
- Natural gas	..	7.72	7.85	14.35	6.65	5.40	7.80	..	-0.0
- Biofuels & waste	..	1.18	1.66	5.07	5.31	5.03	5.18	..	7.9
Other ²	-	-	0.02	0.02	0.01	0.01	0.02	-	-1.6
Of which autoproducers	5.40	6.89	8.45	9.48	8.10	7.69	..	1.7	..
Nuclear	-	-	-	-	-	-	..	-	..
Hydro	2.06	2.40	2.09	1.06	0.55	0.58	..	0.0	..
- Of which pumped storage	-	-	-	-	-	-	..	-	..
Geothermal	-	-	-	-	-	-	..	-	..
Solar	-	-	-	-	-	-	..	-	..
Wind	-	-	-	-	-	-	..	-	..
Combustible fuels	3.34	4.50	6.34	8.40	7.53	7.10	..	2.5	..
- Coal	..	1.03	1.31	1.98	2.11	2.19
- Oil	..	0.58	0.78	0.69	0.64	0.59
- Natural gas	..	1.73	2.71	3.10	1.83	1.57
- Biofuels & waste	..	1.15	1.54	2.64	2.94	2.75
Other ²	-	-	0.02	0.02	0.01	0.01	..	-	..

Table 4b. Gross heat production by source (PJ)

	1974	1990	2000	2010	2013	2014	2015e	74-00	00-15
Total plants heat generation³	-	28.45	47.88	84.59	87.59	80.00	84.51	-	3.9
Nuclear	-	-	-	-	-	-	-	-	-
Geothermal	-	-	0.42	0.54	0.59	0.54	0.52	-	1.5
Combustible fuels	-	28.44	47.24	83.85	86.84	79.30	83.82	-	3.9
- Coal	..	5.15	2.99	3.07	3.29	3.38	3.91	..	1.8
- Oil	..	8.47	10.00	7.39	4.53	3.92	4.73	..	-4.9
- Natural gas	..	10.88	24.47	31.64	36.10	30.76	30.42	..	1.5
- Biofuels & waste	..	3.94	9.79	41.75	42.92	41.24	44.76	..	10.7
Chemical processes	-	-	0.19	0.16	0.10	0.10	0.11	-	-3.8
Heat pumps	-	-	-	-	-	-	-	-	-
Electric boilers	-	0.01	0.04	-	-	-	-	-	-
Other sources	-	-	-	-	-	-	-	-	-
Of which Autoproducers	-	4.02	5.69	8.41	11.25	10.18	..	-	..
Nuclear	-	-	-	-	-	-	..	-	..
Geothermal	-	-	0.05	0.06	0.06	0.06	..	-	..
Combustible fuels	-	4.02	5.45	8.20	11.09	10.02	..	-	..
- Coal	..	0.38	0.31	0.50	0.56	0.38
- Oil	..	2.49	2.89	2.29	2.68	2.30
- Natural gas	..	0.40	0.83	1.30	2.29	2.05
- Biofuels & waste	..	0.75	1.42	4.11	5.56	5.29
Chemical processes	-	-	0.19	0.16	0.10	0.10	..	-	..
Heat pumps	-	-	-	-	-	-	..	-	..
Electric boilers	-	-	-	-	-	-	..	-	..
Other sources	-	-	-	-	-	-	..	-	..

1. Electricity generated from main activity producer power plants and autoproducers.

2. Includes wave, ocean and other sources (e.g. fuel cells, electricity from chemical heat).

3. Total heat generation = gross production of heat from main activity producer + heat sold in autoproducers.

Austria**Table 5. Net electricity production by autoproducers (GWh)**

	1974	1990	2000	2010	2012	2013	2014	74-00	00-14
Total	3090	6061	8399	9131	8259	7793	7429	3.9	-0.9
Total energy	-	563	694	892	850	868	886	-	1.8
Coal mines	-	-	-	-	-	-	-	-	-
Oil and gas extraction	-	26	42	47	48	78	73	-	4.0
Patent fuel plants	-	-	-	-	-	-	-	-	-
Coke ovens	-	-	-	-	-	-	-	-	-
Gas works	-	-	-	-	-	-	-	-	-
BKB	-	537	652	845	802	790	813	-	1.6
Oil refineries	-	-	-	-	-	-	-	-	-
Energy non specified/other	-	-	-	-	-	-	-	-	-
Total industry	3048	3581	6114	7206	6596	6236	5838	2.7	-0.3
Iron and steel	865	1038	1419	2077	1732	1851	1847	1.9	1.9
Chemical and petrochemical	643	371	328	990	743	693	667	-2.6	5.2
Non-ferrous metals	-	-	252	-	-	-	-	-	-
Non-metallic minerals	144	-	106	121	135	136	84	-1.2	-1.6
Transport equipment	6	33	10	28	22	20	23	2.0	6.1
Machinery	7	2	94	37	44	49	49	10.5	-4.5
Mining and quarrying	47	23	11	-	-	-	-	-5.4	-
Food and tobacco	116	140	283	168	167	163	190	3.5	-2.8
Pulp and printing	1080	1874	3293	3376	3249	2835	2481	4.4	-2.0
Wood and wood products	28	30	150	392	486	471	479	6.7	8.6
Construction	-	-	-	-	-	-	-	-	-
Textile and leather	109	65	122	11	12	12	12	0.4	-15.3
Non specified/other industries	3	5	46	6	6	6	6	11.1	-13.5
Total transport	-	861	1034	532	484	492	516	-	-4.8
Rail	-	-	-	-	-	-	-	-	-
Pipeline	-	-	-	-	-	-	-	-	-
Transport non specified	-	861	1034	532	484	492	516	-	-4.8
Other	42	1056	557	501	329	197	189	10.5	-7.4
Commerce and pub. services	-	1029	525	483	309	182	173	-	-7.6
Residential	-	-	-	-	-	-	-	-	-
Agriculture	-	27	32	18	20	15	16	-	-4.8
Fishing	-	-	-	-	-	-	-	-	-
Sector non specified	42	-	-	-	-	-	-	-	-

Notes: Data reported in this table prior to 1990 may refer to combustible fuels only.

Austria**Table 6a. Electricity production from combustible fuels in electricity plants¹**

	1990	2000	2005	2010	2012	2013	2014	90-00	00-14
Steam coal									
Fuel input (1000 t)	964	1213	1701	1396	1225	1145	730	2.3	-3.6
Fuel input (TJ)	26997	32394	47575	37650	33439	31624	19935	1.8	-3.4
Electricity production (GWh)	2773	3989	5751	4598	4079	3821	2496	3.7	-3.3
Lignite									
Fuel input (1000 t)	1182	1168	1068	-	-	-	-	-0.1	-
Fuel input (TJ)	12882	11340	9690	-	-	-	-	-1.3	-
Electricity production (GWh)	1513	1213	1044	-	-	-	-	-2.2	-
Coal manufactured gases²									
Fuel input (TJ)	-	8267	13206	15848	15214	17004	17947	-	5.7
Electricity production (GWh)	-	880	1250	1714	1694	1825	1892	-	5.6
Other coal products³									
Fuel input (1000 t)	7	-	-	-	-	-	-	-	-
Fuel input (TJ)	131	-	-	-	-	-	-	-	-
Electricity production (GWh)	15	-	-	-	-	-	-	-	-
Oil and petroleum products									
Fuel input (1000 t)	28	173	157	72	5	17	3	20.0	-25.1
Fuel input (TJ)	1146	7056	6322	2867	234	648	101	19.9	-26.2
Electricity production (GWh)	136	901	769	348	18	77	11	20.8	-27.0
Natural gas²									
Fuel input (TJ)	41884	41522	61254	47452	21171	6032	5927	-0.1	-13.0
Electricity production (GWh)	4166	4734	8267	6902	3112	857	696	1.3	-12.8
Solid biofuels									
Fuel input (TJ)	2618	3516	6596	12581	18621	14298	13999	3.0	10.4
Electricity production (GWh)	533	363	579	1187	1288	1109	1129	-3.8	8.4
Industrial waste									
Fuel input (TJ)	-	437	867	2343	3177	1684	1526	-	9.3
Electricity production (GWh)	-	41	39	76	220	105	76	-	4.5
Municipal waste									
Fuel input (TJ)	-	719	3655	7036	7703	8628	10777	-	21.3
Electricity production (GWh)	-	45	334	362	412	515	579	-	20.0
Biogases and liquid biofuels									
Fuel input (TJ)	-	676	3869	5180	6457	6027	9857	-	21.1
Electricity production (GWh)	-	46	320	607	592	572	564	-	19.6
Total combustible fuels									
Electricity production (GWh)	9136	12212	18353	15794	11415	8881	7443	2.9	-3.5

1. Excludes CHP plants.

2. Coal manufactured gases and natural gas are expressed on a gross calorific value basis.

3. Includes Coking coal as well as peat and peat products, patent fuels, BKB and shale oil

Austria**Table 6b. Electricity and heat produced for sale from combustible fuels
in combined heat and power plants (CHP plants)**

	1990	2000	2005	2010	2012	2013	2014	90-00	00-14
Steam coal									
Fuel input (1000 t)	457	209	184	180	174	189	215	-7.5	0.2
Fuel input (TJ)	12782	5694	5095	4819	4728	5202	5980	-7.8	0.4
Electricity production (GWh)	1037	446	319	320	328	388	464	-8.1	0.3
CHP Heat production (TJ)	2590	2416	2746	2580	2557	2735	3022	-0.7	1.6
Lignite									
Fuel input (1000 t)	935	61	68	-	-	-	-	-23.9	-
Fuel input (TJ)	10185	792	635	-	-	-	-	-22.5	-
Electricity production (GWh)	853	79	51	-	-	-	-	-21.2	-
CHP Heat production (TJ)	1926	270	314	-	-	-	-	-17.8	-
Coal manufactured gases¹									
Fuel input (TJ)	8207	1289	987	1204	1611	1307	973	-16.9	-2.0
Electricity production (GWh)	815	132	71	72	144	68	60	-16.6	-5.5
CHP Heat production (TJ)	381	261	345	487	553	550	354	-3.7	2.2
Other coal products²									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
CHP Heat production (TJ)	-	-	-	-	-	-	-	-	-
Petroleum products									
Fuel input (1000 t)	563	298	302	315	235	214	177	-6.2	-3.7
Fuel input (TJ)	23400	11775	11968	12392	9396	8329	6909	-6.6	-3.7
Electricity production (GWh)	1744	801	872	926	725	618	598	-7.5	-2.1
CHP Heat production (TJ)	4778	7147	6280	6004	3704	3243	2568	4.1	-7.1
Natural gas¹									
Fuel input (TJ)	32736	40310	54912	67621	64360	58284	47001	2.1	1.1
Electricity production (GWh)	3555	3117	4761	7448	6604	5790	4705	-1.3	3.0
CHP Heat production (TJ)	5460	15548	25076	22641	22861	22590	18294	11.0	1.2
Solid Biofuels									
Fuel input (TJ)	4200	8930	13063	32360	33832	32239	28619	7.8	8.7
Electricity production (GWh)	583	1073	1349	2385	2439	2591	2308	6.3	5.6
CHP Heat production (TJ)	-	929	3486	16548	16788	15863	13624	-	21.1
Industrial waste									
Fuel input (TJ)	2542	1018	1630	3059	3442	4807	4385	-8.7	11.0
Electricity production (GWh)	38	28	170	228	245	265	220	-3.0	15.9
CHP Heat production (TJ)	749	642	564	1093	1452	2649	2472	-1.5	10.1
Municipal waste									
Fuel input (TJ)	1724	2233	3248	5471	5606	4924	5126	2.6	6.1
Electricity production (GWh)	26	46	42	155	155	92	100	5.9	5.7
CHP Heat production (TJ)	1345	1595	2288	3826	3754	3405	3524	1.7	5.8
Biogases and liquid biofuels									
Fuel input (TJ)	-	95	901	874	523	522	413	-	11.1
Electricity production (GWh)	-	15	43	70	46	59	51	-	9.1
CHP Heat production (TJ)	-	-	496	406	217	186	124	-	-
Total combustible fuels									
Electricity production (GWh)	8651	5737	7678	11604	10686	9871	8506	-4.0	2.9
CHP Heat production (TJ)	17229	28808	41595	53585	51886	51221	43982	5.3	3.1

1. Coal manufactured gases and natural gas are expressed on a gross calorific value basis.

2. Includes Coking coal as well as peat and peat products, patent fuels, BKB and shale oil

Austria**Table 6c. Heat produced for sale from combustible fuels in heat plants¹**

	1990	2000	2005	2010	2012	2013	2014	90-00	00-14
Steam coal									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Heat production (TJ)	-	-	-	-	-	-	-	-	-
Lignite									
Fuel input (1000 t)	16	-	-	-	-	-	-	-	-
Fuel input (TJ)	178	-	-	-	-	-	-	-	-
Heat production (TJ)	164	-	-	-	-	-	-	-	-
Coal manufactured gases²									
Fuel input (TJ)	-	50	-	-	-	-	-	-	-
Heat production (TJ)	-	40	-	-	-	-	-	-	-
Other coal products³									
Fuel input (1000 t)	5	-	-	-	-	-	-	-	-
Fuel input (TJ)	95	-	-	-	-	-	-	-	-
Heat production (TJ)	85	-	-	-	-	-	-	-	-
Petroleum products									
Fuel input (1000 t)	101	88	82	37	36	34	36	-1.4	-6.2
Fuel input (TJ)	4178	3563	3296	1675	1505	1433	1501	-1.6	-6.0
Heat production (TJ)	3693	2851	2529	1386	1334	1283	1352	-2.6	-5.2
Natural gas²									
Fuel input (TJ)	8391	10713	10692	11366	13420	16486	15462	2.5	2.7
Heat production (TJ)	5423	8917	8146	9000	10657	13511	12470	5.1	2.4
Solid biofuels									
Fuel input (TJ)	1628	7672	9878	22904	21555	22641	23314	16.8	8.3
Heat production (TJ)	1404	5446	7560	17977	17954	19028	19581	14.5	9.6
Industrial waste									
Fuel input (TJ)	-	-	3	508	684	173	278	-	-
Heat production (TJ)	-	-	3	355	486	121	218	-	-
Municipal waste									
Fuel input (TJ)	690	1692	1974	1874	2245	2170	2187	9.4	1.8
Heat production (TJ)	441	1176	1290	1474	1531	1582	1602	10.3	2.2
Biogases and liquid biofuels									
Fuel input (TJ)	-	-	-	80	88	101	99	-	-
Heat production (TJ)	-	-	-	72	79	90	94	-	-
Total combustible fuels									
Heat production (TJ)	11210	18430	19528	30264	32041	35615	35317	5.1	4.8

1. Excludes CHP plants

2. Coal manufactured gases and natural gas are expressed on a gross calorific value basis.

3. Includes Coking coal as well as peat and peat products, patent fuels, BKB and shale oil

Austria**Table 7. Net maximum electricity generating capacity on 31 December (GW)**

	1974	1990	2000	2005	2010	2012	2013	2014
Total capacity¹	8.98	16.69	17.80	18.90	21.19	22.92	23.59	24.03
Nuclear	-	-	-	-	-	-	-	-
Hydro	5.98	10.95	11.61	11.63	12.71	13.08	13.15	13.29
<i>of which: pumped storage</i>	-	3.92	3.94	3.97	4.79	5.11	5.11	5.23
Geothermal	-	-	-	-	-	-	-	-
Solar PV	-	-	0.01	0.03	0.15	0.36	0.63	0.79
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	-	0.05	0.78	0.98	1.32	1.65	2.09
Other (e.g. fuel cells)	-	-	-	-	-	-	-	-
Combustible fuels	3.01	5.74	6.13	6.46	7.35	8.16	8.17	7.86
<i>of which⁽²⁾:</i>								
<i>Single-fired:</i>								
Coal and Coal products	0.80	1.81	1.94	1.74	1.36	1.52	1.52	1.59
Liquid fuels	0.51	0.48	0.51	0.33	0.22	0.17	0.29	0.33
Natural gas	0.90	2.48	2.64	3.08	3.92	5.21	5.19	4.89
Biofuels & waste	-	0.11	0.13	0.27	0.45	0.48	0.49	0.62
<i>Multi-fired:</i>								
Solid / liquid	-	0.08	0.08	0.13	0.34	0.25	0.31	0.11
Solid / natural gas	-	0.06	0.06	0.03	0.08	0.08	0.09	0.08
Liquid / natural gas	-	0.58	0.61	0.66	0.74	0.19	0.04	-
Solid / liquid / gas	0.81	0.15	0.16	0.21	0.25	0.26	0.25	0.25
<i>Type of generation</i>								
Steam	3.01	e	5.16	4.79	4.06	3.34	3.29	3.32
Internal combustion	-	0.10	0.12	0.21	0.28	0.31	0.30	0.30
Gas turbine	-	0.48	0.26	0.51	0.40	0.41	0.42	0.42
Combined cycle	-	..	0.97	1.68	3.32	4.15	4.13	3.94
Other	-	-	-	-	-	-	-	-
<i>Peak load</i>	9.19	9.75	10.11	10.09	10.14
Of which Autoproducers	1.29	1.60	1.63	1.75	2.31	2.35	2.38	2.26
Nuclear	-	-	-	-	-	-	-	-
Hydro	0.48	0.60	0.56	0.54	0.55	0.54	0.54	0.53
<i>of which: pumped storage</i>	-	-	-	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-	-
Solar PV	-	-	-	-	-	-	-	-
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	-	-	-	-	-	-	-
Other (e.g. fuel cells)	-	-	-	-	-	-	-	-
Combustible fuels	0.81	1.00	1.07	1.21	1.76	1.81	1.84	1.72

1. Sum of available capacity figures

2. Breakdown of electrical capacity by type of fuel are shown in the individual country chapters.

Austria**Table 8. Capacity factors (%)**

	1974	1990	2000	2005	2010	2012	2013	2014
Total plants¹	43.1	34.4	39.3	40.1	38.3	36.2	33.0	31.1
Nuclear	-	-	-	-	-	-	-	-
Hydro	43.3	33.9	42.5	38.3	37.3	41.7	39.7	38.5
<i>of which: pumped storage</i>	-	-	-	-	-	-	-	-
Geothermal	-	-	-	11.4	11.4	11.4	-	-
Solar PV	-	-	6.9	8.0	6.6	10.6	10.6	11.4
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	-	15.3	19.5	24.0	21.4	21.9	21.1
Other (e.g. fuel cells)	-	-	-	-	-	-	-	-
Combustible fuels	42.6	35.4	33.4	46.0	42.6	30.9	26.2	23.2
Of which autoproducers	47.9	49.3	59.2	54.1	46.8	41.7	38.9	38.9
Nuclear	-	-	-	-	-	-	-	-
Hydro	48.9	45.6	42.7	26.1	22.0	11.5	11.8	12.4
<i>of which: pumped storage</i>	-	-	-	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-	-
Solar PV	-	-	-	-	-	-	-	-
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	-	-	-	-	-	-	-
Other (e.g. fuel cells)	-	-	-	-	-	-	-	-
Combustible fuels	47.3	51.5	67.5	66.6	54.4	50.5	46.6	47.1

1. The capacity factor is defined as: the annual gross electricity generation (in GWh) divided by the net capacity (in GW) times 365 (days/year) times 24 (hours/day)

Austria**Table 9a. Electricity imports by origin (GWh)**

	1974	1990	2000	2005	2010	2012	2013	2014
Total imports	3170	6839	13824	20397	19898	23264	24960	26712
Total from OECD	-	6839	13824	20397	19898	23264	24960	26712
Austria	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-
Canada	-	-	-	-	-	-	-	-
Czech Republic	-	2975	5385	6114	6527	10308	10508	11953
Denmark	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-
Germany	-	3559	7363	12832	12093	12360	12383	13143
Greece	-	-	-	-	-	-	-	-
Hungary	-	212	843	854	640	335	1014	547
Ireland	-	-	-	-	-	-	-	-
Italy	-	-	-	-	3	23	20	27
Luxembourg	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-
Poland	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-
Slovak Republic	-	-	-	-	-	-	-	-
Slovenia	-	17	21	532	582	111	781	494
Spain	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-
Switzerland	-	76	212	65	53	127	254	548
Turkey	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-
United States	-	-	-	-	-	-	-	-
Total from non-OECD	-	-	-	-	-	-	-	-
Albania	-	-	-	-	-	-	-	-
Azerbaijan	-	-	-	-	-	-	-	-
Belarus	-	-	-	-	-	-	-	-
Bulgaria	-	-	-	-	-	-	-	-
Croatia	-	-	-	-	-	-	-	-
F.Y.R. of Macedonia	-	-	-	-	-	-	-	-
Georgia	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-
Romania	-	-	-	-	-	-	-	-
Russian Federation	-	-	-	-	-	-	-	-
Serbia	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-
Turkmenistan	-	-	-	-	-	-	-	-
Ukraine	-	-	-	-	-	-	-	-
Non-specified/others	3170	-	-	-	-	-	-	-

Austria**Table 9b. Electricity exports by destination (GWh)**

	1974	1990	2000	2005	2010	2012	2013	2014
Total exports	6129	7298	15192	17732	17567	20455	17689	17437
Total to OECD	-	7298	15192	17604	17304	20140	17383	17147
Austria	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-
Canada	-	-	-	-	-	-	-	-
Czech Republic	-	47	2	12	251	51	84	265
Denmark	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-
Germany	-	3179	5410	4816	4791	4131	5251	4118
Greece	-	-	-	-	-	-	-	-
Hungary	-	233	426	809	1011	2428	1377	2567
Ireland	-	-	-	-	-	-	-	-
Italy	-	1703	1945	1499	1327	1146	1507	1535
Luxembourg	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-
Poland	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-
Slovak Republic	-	-	-	-	-	-	-	-
Slovenia	-	1370	3235	1349	2012	4609	2179	3121
Spain	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-
Switzerland	-	766	4174	9119	7912	7775	6985	5541
Turkey	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-
United States	-	-	-	-	-	-	-	-
Total to non-OECD	-	-	-	-	-	-	-	-
Albania	-	-	-	-	-	-	-	-
Azerbaijan	-	-	-	-	-	-	-	-
Belarus	-	-	-	-	-	-	-	-
Bulgaria	-	-	-	-	-	-	-	-
Croatia	-	-	-	-	-	-	-	-
F.Y.R. of Macedonia	-	-	-	-	-	-	-	-
Georgia	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-
Romania	-	-	-	-	-	-	-	-
Russian Federation	-	-	-	-	-	-	-	-
Serbia	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-
Turkmenistan	-	-	-	-	-	-	-	-
Ukraine	-	-	-	-	-	-	-	-
Non-specified/others	6129	-	-	128	263	315	306	290

Austria**Table 10a. Share of electricity in total final consumption (%)**

	1974	1990	2000	2005	2010	2012	2013	2014
Share of total final consumption	14.1	18.6	18.8	18.1	18.8	19.7	19.1	19.5
Industry	19.6	29.4	29.3	29.9	29.2	30.3	30.1	30.4
Iron and steel	10.9	11.9	23.8	27.1	24.6	24.4	23.5	24.4
Chem. and petrochemical	37.8	35.0	32.4	32.2	34.6	36.4	37.3	36.6
Non-ferrous metals	91.7	70.6	42.7	43.0	42.1	44.7	42.6	43.1
Non-metallic minerals	10.0	17.3	20.7	18.9	18.1	18.4	18.4	18.0
Transport equipment	31.7	38.1	53.7	50.2	46.7	47.8	46.8	51.7
Machinery	40.2	46.5	51.2	51.3	48.9	49.8	50.8	54.0
Mining and quarrying	15.7	33.7	40.3	49.4	62.6	60.4	59.5	61.9
Food and tobacco	14.0	29.3	23.0	28.8	30.5	30.0	32.9	34.5
Paper, pulp and printing	25.8	25.8	27.9	26.4	23.6	26.2	24.3	23.7
Wood and wood products	31.6	30.1	26.4	28.1	22.3	22.9	22.8	23.3
Construction	72.9	20.4	11.5	11.3	10.8	10.9	11.5	11.6
Textile and leather	22.4	35.6	37.5	44.3	40.3	43.7	44.7	47.6
Non specified/other	1.6	65.8	58.0	61.4	55.5	57.5	57.2	59.2
Transport	4.3	4.9	4.6	3.5	3.6	3.3	3.2	3.2
Rail Transport	48.7	76.1	83.3	76.2	78.7	79.6	80.7	79.5
Pipeline Transport	-	11.1	9.1	9.0	8.4	6.8	5.2	6.3
Road	-	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Transport Non Specified	-	100.0	100.0	100.0	100.0	99.9	99.8	99.7
Other sectors	17.8	23.3	25.1	24.9	26.3	28.4	27.3	29.5
Commercial & publ. serv.	78.9	46.2	39.1	28.4	31.3	37.2	39.1	38.6
Residential	10.6	17.4	20.3	24.0	24.9	25.7	23.3	26.7
Agriculture	91.5	15.6	13.9	13.4	12.3	12.0	12.0	12.4
Fishing	-	-	-	-	-	-	-	-
Sector non specified	-	-	-	-	-	-	-	-

Table 10b. Share of heat in total final consumption (%)

	1974	1990	2000	2005	2010	2012	2013	2014
Share of total final consumption	-	3.1	4.3	4.7	6.7	6.9	6.9	6.5
Industry	-	1.5	2.0	2.6	3.1	3.5	3.6	3.5
Iron and steel	-	-	0.0	0.7	0.5	0.6	2.2	1.1
Chem. and petrochemical	-	2.6	4.5	3.7	6.1	6.5	6.9	6.9
Non-ferrous metals	-	0.1	1.0	1.7	1.2	1.0	1.1	0.6
Non-metallic minerals	-	0.0	0.1	0.1	0.1	0.1	0.1	0.1
Transport equipment	-	8.8	14.6	13.4	15.8	14.2	14.6	14.1
Machinery	-	2.6	5.1	4.2	5.4	5.8	5.8	5.6
Mining and quarrying	-	0.2	0.3	0.3	0.2	0.2	0.2	0.2
Food and tobacco	-	3.3	2.8	2.9	5.0	4.8	5.1	5.3
Paper, pulp and printing	-	2.2	1.4	1.3	1.1	1.5	1.4	1.4
Wood and wood products	-	0.8	1.7	8.9	6.6	8.2	7.6	9.1
Construction	-	0.7	1.2	1.8	1.8	1.7	1.8	1.9
Textile and leather	-	1.1	1.7	1.6	1.1	1.1	1.1	1.3
Non specified/other	-	0.8	1.9	3.6	4.3	4.9	5.1	4.7
Transport	-	-	-	-	-	-	-	-
Other sectors	-	6.6	9.6	10.9	15.8	16.6	16.5	16.4
Commercial & publ. serv.	-	14.6	15.0	18.7	30.7	33.1	29.1	28.7
Residential	-	4.8	8.1	7.6	9.3	10.0	12.1	11.7
Agriculture	-	0.6	1.0	1.3	1.8	1.8	1.8	1.7
Fishing	-	-	-	-	-	-	-	-
Sector non specified	-	-	-	-	-	-	-	-

Source: IEA/OECD World Energy Balances.

Belgium

Figure 1. Total final consumption by fuel

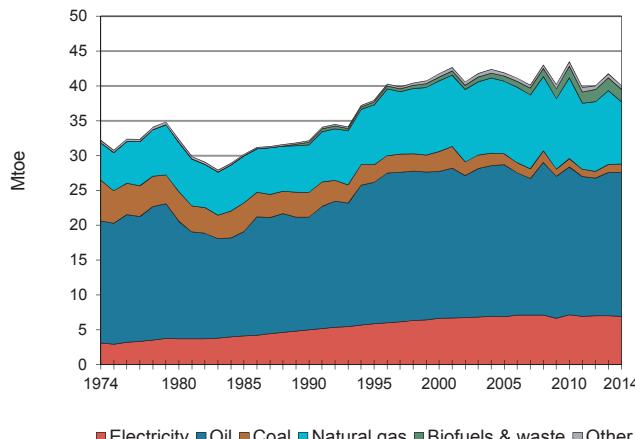


Figure 2. Electricity generation by fuel

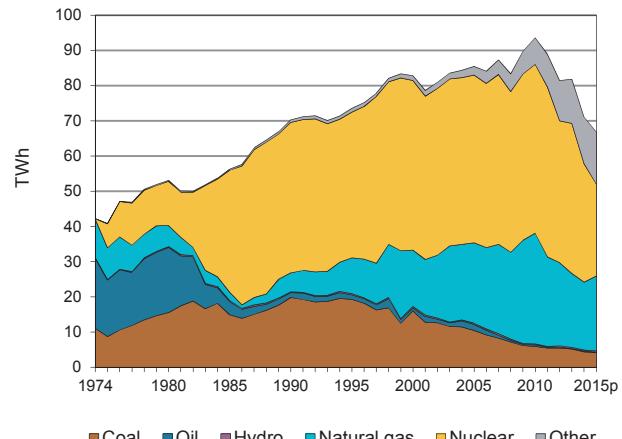


Figure 3. Electricity consumption by sector

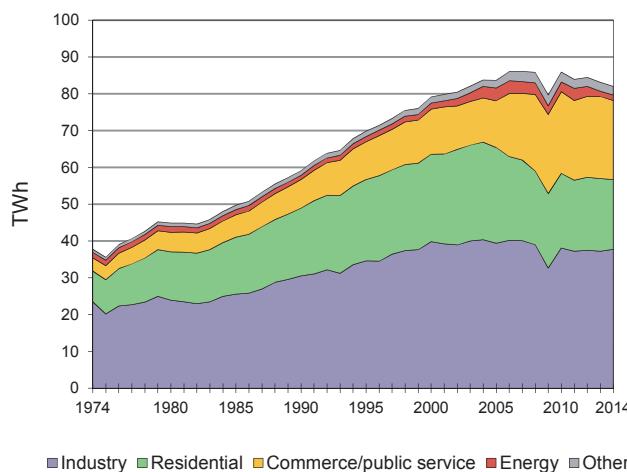


Figure 4. Electricity indicators

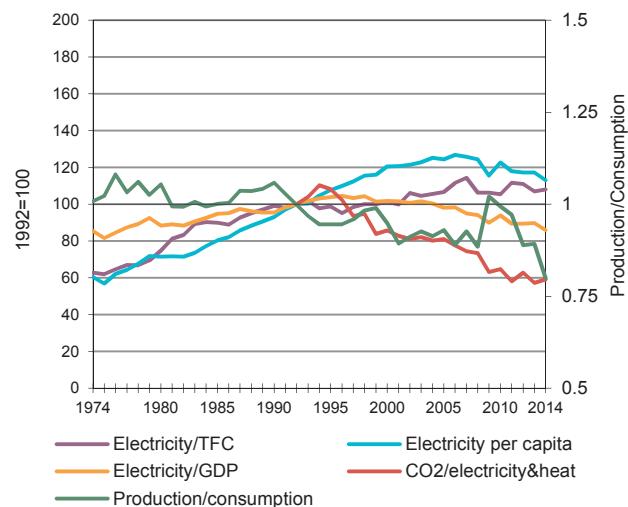
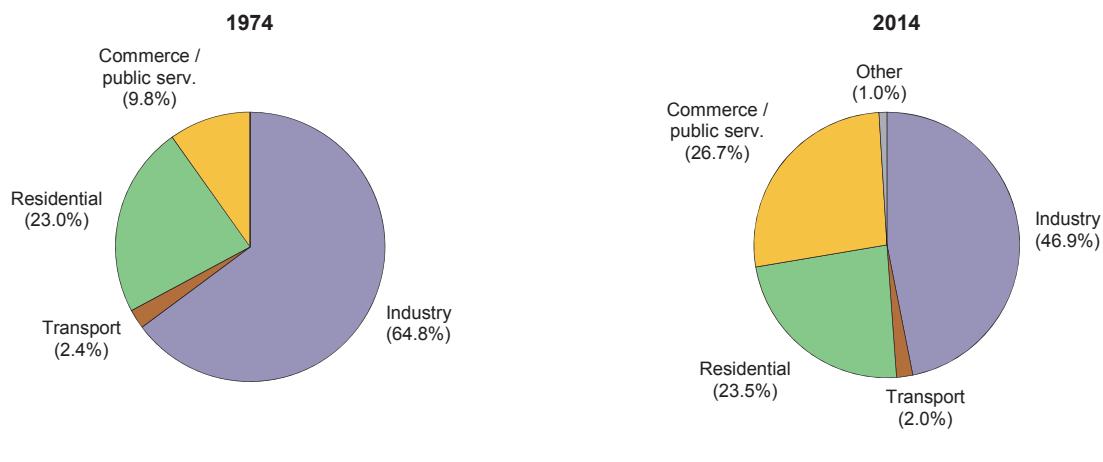


Figure 5. Total final electricity consumption by sector



Belgium

Table 1. Energy consumption, GDP and population

	1974	1990	2000	2010	2013	2014	2015p	74-00	00-15
TPES (Mtoe)	45.12	47.94	58.12	60.36	55.77	52.77	52.85	1.0	-0.6
GDP (billion 2005 USD)	234.83	330.54	412.51	483.55	493.03	499.42	506.28	2.2	1.4
TPES/GDP ¹	0.19	0.15	0.14	0.12	0.11	0.11	0.10	-1.2	-2.0
Population (millions)	9.76	9.97	10.25	10.88	11.11	11.16	11.23	0.2	0.6
TPES/population ²	4.63	4.81	5.67	5.55	5.02	4.73	4.70	0.8	-1.2
TPES/GDP (2005 = 100)	149	112	109	97	88	82	81	-1.2	-2.0
Ele.TFC/GDP(2005=100) ³	87	99	106	97	93	91	..	0.8	..
Ele.TFC/population ⁴	3717	5819	7571	7658	7364	7223	..	2.8	..
Elec. generated (TWh) ⁵	42.31	70.29	82.77	93.83	82.18	71.46	67.04	2.6	-1.4

Source: IEA/OECD *World Energy Balances* and OECD *Main Economic Indicators*.

Table 2. Total primary energy supply (TPES) by source

	1974	1990	2000	2010	2013	2014	2015p	74-00	00-15
TPES (Mtoe)	45.12	47.94	58.12	60.36	55.77	52.77	52.85	1.0	-0.6
Coal	12.43	10.57	8.05	3.81	3.38	3.30	3.13	-1.7	-6.1
Oil	24.27	17.61	22.70	23.41	21.66	22.34	23.08	-0.3	0.1
Natural gas	8.37	8.17	13.36	16.99	14.39	12.60	13.83	1.8	0.2
Biofuels & waste	0.02	0.75	1.04	3.34	3.60	3.33	3.20	17.3	7.8
Nuclear	0.04	11.13	12.55	12.49	11.11	8.78	6.80	24.9	-4.0
Geothermal	-	0.00	0.00	0.00	0.00	0.00	0.00	-	-0.2
Solar, wind, tide ⁶	-	0.00	0.00	0.17	0.56	0.67	0.75	-	46.7
Hydro	0.02	0.02	0.04	0.03	0.03	0.02	0.03	2.5	-2.9
Net electricity imports ⁷	-0.03	-0.32	0.37	0.05	0.83	1.51	1.81	-	11.1
Heat	-	-	-	-	0.07	0.20	0.22	-	-

Source: IEA/OECD *World Energy Balances*.

1. In units of toe/2005 thousand US dollars.

2. In units of toe/per capita.

3. Ele.TFC = electricity total final consumption.

4. In units of kWh/per capita.

5. Electricity generated = gross production - amount of electricity produced in pumped storage plants.

6. Includes wave, ocean and other (e.g. fuel cells).

7. Net Imports = total imports - total exports

Belgium**Table 3a. Summary electricity production and consumption¹ (TWh)**

	1974	1990	2000	2005	2010	2013	2014	2015e
Gross production	42.76	70.92	84.01	87.03	95.19	83.53	72.69	68.14
- Own use by power plant	2.00	3.66	3.75	3.63	3.70	3.29	2.72	-
Net production	40.76	67.27	80.27	83.40	91.49	80.23	69.97	-
- Used for heat pumps	-	-	-	-	-	-	-	-
- Used for electric boilers	-	-	-	-	-	-	-	-
- Used for pumped storage	0.63	0.83	1.64	1.78	1.79	1.78	1.63	1.44
+ Imports	2.56	4.79	11.65	14.33	12.40	17.24	21.79	23.71
- Exports	2.88	8.51	7.32	8.02	11.84	7.60	4.19	2.72
Electrical energy supplied	39.81	62.71	82.96	87.93	90.25	88.10	85.94	..
- Transmission & distr. losses	2.03	3.60	3.79	4.16	4.28	4.01	3.88	..
- Statistical difference	-	-	-	0.13	0.05	0.94	0.07	..
Total consumption	37.78	59.11	79.17	83.64	85.92	83.15	81.99	..
Energy industry consumption²	1.53	1.12	1.62	3.43	2.61	1.40	1.43	..
Coal Mines	0.79	0.17	0.00	-	-	-	-	..
Oil + Gas Extraction	-	-	-	-	0.00	-	-	..
Patent Fuel Plants	-	-	-	-	-	-	-	..
Coke Ovens	0.23	0.15	0.09	0.08	-	0.06	0.02	..
BKB plants	-	-	-	-	-	-	-	..
Gas Works	-	-	-	-	-	-	-	..
Blast Furnaces	-	-	-	-	-	-	-	..
Oil Refineries	0.51	0.80	1.40	3.02	2.34	1.32	1.38	..
Nuclear Industry	-	-	0.01	0.02	0.00	-	-	..
Coal Liquefaction Plants	-	-	-	-	-	-	-	..
LNG/Regasification Plants	-	-	-	-	-	-	-	..
Energy - Non Specified	-	-	0.12	0.31	0.26	0.03	0.03	..
Final consumption	36.25	57.98	77.54	80.20	83.31	81.74	80.56	..
Industry	23.50	30.52	39.87	39.42	38.14	37.20	37.75	..
Iron and steel	5.32	5.14	6.88	6.00	5.99	4.55	4.65	..
Chem. and petrochemical	7.67	9.88	13.48	13.77	13.50	12.77	12.79	..
Non-ferrous metals	1.76	2.11	2.05	1.73	1.78	1.88	1.94	..
Non-metallic minerals	1.81	2.09	2.52	2.33	1.06	2.83	2.86	..
Transport equipment	0.58	0.97	1.14	0.99	1.06	2.24	2.19	..
Machinery	1.52	2.00	2.09	2.17	1.90	0.58	0.57	..
Mining and quarrying	0.27	0.33	0.38	0.53	1.19	0.43	0.44	..
Food and tobacco	1.35	2.79	3.95	3.99	4.72	5.40	5.47	..
Paper, pulp and printing	1.28	2.12	2.53	2.71	2.60	2.61	2.58	..
Wood and wood products	0.28	0.62	0.64	1.86	0.66	0.38	0.38	..
Construction	0.09	0.08	0.29	0.32	1.41	0.93	0.81	..
Textile and leather	1.28	1.69	2.01	1.23	1.25	1.14	1.13	..
Non specified/other	0.30	0.72	1.92	1.80	1.03	1.47	1.96	..
Transport	0.85	1.25	1.44	1.70	1.74	1.69	1.59	..
Rail Transport	0.85	1.25	1.44	1.68	1.66	1.60	1.56	..
Pipeline Transport	-	-	0.00	0.02	0.07	0.09	0.03	..
Road	-	-	-	-	-	0.00	0.00	..
Transport Non Specified	-	-	-	-	-	-	-	..
Commercial & publ. serv.	8.33	18.41	23.74	26.01	20.28	19.81	18.94	..
Residential	3.56	7.80	12.24	12.70	22.18	22.26	21.50	..
Agriculture	-	-	0.26	0.37	0.83	0.79	0.77	..
Fishing	-	-	-	-	-	-	-	..
Sector non specified	-	-	-	-	0.15	-	-	..

1. Electricity generation from main activity producer power plants and autoproducers .

2. Energy industry consumption = electricity consumed by transformation industries for heating, traction and lighting purposes;

excludes own use by power plant and electricity used for heat pumps, electric boilers and pumped storage.

Belgium

Table 3b. Summary heat production and consumption¹ (TJ)

	1974	1990	2000	2005	2010	2013	2014	2015e
Gross production	15299	9742	23171	22366	38304	37682	36485	36485
- Own use by power plant	-	-	-	-	-	-	-	-
Net production	15299	9742	23171	22366	38304	37682	36485	-
- Used for electricity production	-	-	-	2902 e	2731	8499	9304	9304
+ Imports	-	-	-	-	-	-	-	-
- Exports	-	-	-	-	-	-	-	-
Heat energy supplied	15299	9742	23171	19464	35573	29183	27181	..
- Transmission & distr. losses	683	505	2579	1524	3557	2914	458	..
- Statistical difference	-	-	-	-	-825	-1899	538	..
Total consumption	14616	9237	20592	17940	32841	28168	26185	..
Energy industry consumption²	-	-	-	-	6050	4934	4245	..
Coal Mines	-	-	-	-	-	-	-	..
Oil + Gas Extraction	-	-	-	-	-	-	-	..
Patent Fuel Plants	-	-	-	-	-	-	-	..
Coke Ovens	-	-	-	-	-	-	-	..
BKB plants	-	-	-	-	-	-	-	..
Gas Works	-	-	-	-	-	-	-	..
Blast Furnaces	-	-	-	-	-	-	-	..
Oil Refineries	-	-	-	-	6050	4902	4236	..
Nuclear Industry	-	-	-	-	-	-	-	..
Coal Liquefaction Plants	-	-	-	-	-	-	-	..
LNG/Regasification Plants	-	-	-	-	-	32	9	..
Energy - Non Specified	-	-	-	-	-	-	-	..
Final consumption	14616	9237	20592	17940	26791	23234	21940	..
Industry	14616	7851	17855	15580	22889	20310	17359	..
Iron and steel	-	87	721	618	-	-	-	..
Chem. and petrochemical	-	4615	5743	4945	19717	16979	14602	..
Non-ferrous metals	-	-	-	-	-	-	-	..
Non-metallic minerals	-	-	-	-	-	-	-	..
Transport equipment	-	-	-	-	-	-	-	..
Machinery	-	-	-	-	-	-	-	..
Mining and quarrying	-	-	-	-	-	-	-	..
Food and tobacco	-	-	-	-	1068	1670	1872	..
Paper, pulp and printing	-	-	-	-	2007	1635	856	..
Wood and wood products	-	-	-	-	-	-	-	..
Construction	-	-	-	-	-	-	-	..
Textile and leather	-	-	-	-	77	26	29	..
Non specified/other	14616	3149	11391	10017	20	-	-	..
Transport	-	-	-	-	-	-	-	..
Commercial & publ. serv.	-	606	588	549	3220	2613	3877	..
Residential	-	737	729	587	466	174	651	..
Agriculture	-	-	-	-	216	137	53	..
Fishing	-	-	-	-	-	-	-	..
Sector non specified	-	43	1420	1224	-	-	-	..

1. Heat generation from main activity producer power plants and autoproducers.

2. Energy industry consumption = electricity consumed by transformation industries for heating, traction and lighting purposes;

excludes own use by power plant and electricity used for heat pumps, electric boilers and pumped storage.

Belgium

Table 4a. Gross electricity production by source (TWh)

	1974	1990	2000	2010	2013	2014	2015e	74-00	00-15
Total plants gross production¹	42.76	70.92	84.01	95.19	83.53	72.69	68.14	2.6	-1.4
Nuclear	0.15	42.72	48.16	47.94	42.64	33.70	26.10	24.9	-4.0
Hydro	0.69	0.90	1.70	1.67	1.72	1.51	1.40	3.5	-1.3
- Of which pumped storage	0.45	0.63	1.24	1.36	1.34	1.23	1.10	4.0	-0.8
Geothermal	-	-	-	-	-	-	-	-	-
Solar	-	-	-	0.56	2.64	2.88	3.05	-	-
Wind	-	0.01	0.02	1.29	3.69	4.61	5.47	-	47.5
Combustible fuels	41.93	27.30	34.14	43.47	32.47	29.58	31.94	-0.8	-0.4
- Coal	..	19.86	16.03	5.96	5.16	4.40	4.22	..	-8.5
- Oil	..	1.31	0.80	0.41	0.16	0.22	0.11	..	-12.6
- Natural gas	..	5.41	15.98	31.42	20.92	19.29	21.30	..	1.9
- Biofuels & waste	..	0.72	1.34	5.69	6.23	5.67	6.32	..	10.9
Other ²	-	-	-	0.26	0.36	0.40	0.18	-	-
Of which autoproducers	11.74	2.75	1.71	5.57	9.12	9.79	..	-7.1	..
Nuclear	0.01	-	-	-	-	-	..	-	..
Hydro	0.00	-	-	-	-	-	..	-	..
- Of which pumped storage	-	-	-	-	-	-	..	-	..
Geothermal	-	-	-	-	-	-	..	-	..
Solar	-	-	-	0.56	2.64	2.88	..	-	..
Wind	-	-	0.00	0.01	0.02	0.03	..	-	..
Combustible fuels	11.72	2.75	1.71	4.75	6.11	6.49	..	-7.1	..
- Coal	..	1.25	0.37	0.27	0.10	0.09
- Oil	..	0.50	0.38	0.26	0.13	0.21
- Natural gas	..	0.64	0.49	2.69	3.96	4.15
- Biofuels & waste	..	0.36	0.46	1.53	1.92	2.04
Other ²	-	-	-	0.26	0.35	0.39	..	-	..

Table 4b. Gross heat production by source (PJ)

	1974	1990	2000	2010	2013	2014	2015e	74-00	00-15
Total plants heat generation³	15.30	9.74	23.17 e	38.30	37.68	36.49	36.49	1.6	3.1
Nuclear	-	-	-	-	-	-	-	-	-
Geothermal	-	0.04	0.05	0.09	0.07	0.06	0.06	-	0.8
Combustible fuels	15.30	9.70	23.12	35.48	29.12	27.12	27.12	1.6	1.1
- Coal	..	1.58	-	-	-	-	-	..	-
- Oil	..	2.76	0.09	0.52	0.01	0.23	0.23	..	6.8
- Natural gas	..	4.99	22.20	31.44	25.28	22.27	22.27	..	0.0
- Biofuels & waste	..	0.37	0.83	3.52	3.83	4.62	4.62	..	12.1
Chemical processes	-	-	-	2.73	8.50	9.30	9.30	-	-
Heat pumps	-	-	-	-	-	-	-	-	-
Electric boilers	-	-	-	-	-	-	-	-	-
Other sources	-	-	-	-	-	-	-	-	-
Of which Autoproducers	-	-	-	3.25	8.50	9.52	..	-	..
Nuclear	-	-	-	-	-	-	..	-	..
Geothermal	-	-	-	-	-	-	..	-	..
Combustible fuels	-	-	-	0.51	-	0.22	..	-	..
- Coal	..	-	-	-	-	-
- Oil	..	-	-	0.51	-	0.22
- Natural gas	..	-	-	-	-	-
- Biofuels & waste	..	-	-	-	-	-
Chemical processes	-	-	-	2.73	8.50	9.30	..	-	..
Heat pumps	-	-	-	-	-	-	..	-	..
Electric boilers	-	-	-	-	-	-	..	-	..
Other sources	-	-	-	-	-	-	..	-	..

1. Electricity generated from main activity producer power plants and autoproducers.

2. Includes wave, ocean and other sources (e.g. fuel cells, electricity from chemical heat).

3. Total heat generation = gross production of heat from main activity producer + heat sold in autoproducers.

Belgium**Table 5. Net electricity production by autoproducers (GWh)**

	1974	1990	2000	2010	2012	2013	2014	74-00	00-14
Total	11103	2565	1548	5238	8220	8851	9494	-7.3	13.8
Total energy	1914	569	88	982	1220	927	1089	-11.2	19.7
Coal mines	-	-	-	-	-	-	-	-	-
Oil and gas extraction	-	-	-	-	-	-	-	-	-
Patent fuel plants	-	-	-	-	-	-	-	-	-
Coke ovens	-	-	-	-	-	-	-	-	-
Gas works	-	-	-	-	-	-	-	-	-
BKB	-	142	88	982	1220	927	1089	-	19.7
Oil refineries	-	-	-	-	-	-	-	-	-
Energy non specified/other	-	-	-	-	-	-	-	-	-
Total industry	9187	1995	1150	2628	2772	2930	3062	-7.7	7.2
Iron and steel	1693	761	244	228	60	46	25	-7.2	-15.0
Chemical and petrochemical	873	602	371	726	722	908	921	-3.2	6.7
Non-ferrous metals	453	147	95	97	111	126	111	-5.8	1.1
Non-metallic minerals	-	-	4	9	9	8	8	-	5.1
Transport equipment	-	-	-	5	7	11	13	-	-
Machinery	18	4	1	18	-	-	-	-10.5	-
Mining and quarrying	-	-	-	-	-	-	-	-	-
Food and tobacco	168	298	235	451	501	514	549	1.3	6.2
Pulp and printing	335	178	191	687	738	745	899	-2.1	11.7
Wood and wood products	-	-	-	158	163	166	185	-	-
Construction	-	-	-	-	-	-	-	-	-
Textile and leather	118	5	-	-	6	4	10	-	-
Non specified/other industries	5529	-	9	249	455	402	341	-21.9	29.6
Total transport	-	-	1	-	-	-	-	-	-
Rail	-	-	-	-	-	-	-	-	-
Pipeline	-	-	-	-	-	-	-	-	-
Transport non specified	-	-	1	-	-	-	-	-	-
Other	2	1	309	1628	4228	4994	5343	21.4	22.6
Commerce and pub. services	-	-	37	151	394	614	741	-	23.9
Residential	-	-	-	65	368	552	618	-	-
Agriculture	-	-	12	969	1901	1974	1883	-	43.5
Fishing	-	-	-	-	-	-	-	-	-
Sector non specified	2	1	260	443	1565	1854	2101	20.6	16.1

Notes: Data reported in this table prior to 1990 may refer to combustible fuels only.

Belgium

Table 6a. Electricity production from combustible fuels in electricity plants¹

	1990	2000	2005	2010	2012	2013	2014	90-00	00-14
Steam coal									
Fuel input (1000 t)	4459	4309	2984	1469	1181	1026	780	-0.3	-11.5
Fuel input (TJ)	108892	108004	77027	38524	30676	26975	19997	-0.1	-11.3
Electricity production (GWh)	11585	12827	8088	4095	3293	2929	2147	1.0	-12.0
Lignite									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
Coal manufactured gases²									
Fuel input (TJ)	18233	27480	20410	14002	17485	17980	18442	4.2	-2.8
Electricity production (GWh)	1674	3114	2068	1594	2067	2131	2162	6.4	-2.6
Other coal products³									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
Oil and petroleum products									
Fuel input (1000 t)	157	77	363	32	16	6	3	-6.9	-20.7
Fuel input (TJ)	6349	3120	14753	1457	646	266	111	-6.9	-21.2
Electricity production (GWh)	839	369	1576	142	66	21	11	-7.9	-22.2
Natural gas²									
Fuel input (TJ)	53411	103829	135700	154318	84368	74584	70750	6.9	-2.7
Electricity production (GWh)	5160	11310	16487	19398	11048	9694	9348	8.2	-1.4
Solid biofuels									
Fuel input (TJ)	608	114	6430	18671	26703	22166	13673	-15.4	40.8
Electricity production (GWh)	135	11	668	1900	2609	2218	1388	-22.2	41.3
Industrial waste									
Fuel input (TJ)	3226	965	1886	7052	6133	-	-	-11.4	-
Electricity production (GWh)	231	72	114	417	357	-	-	-11.0	-
Municipal waste									
Fuel input (TJ)	11434	12466	10785	23758	20360	16491	13962	0.9	0.8
Electricity production (GWh)	350	657	602	1420	1126	857	914	6.5	2.4
Biogases and liquid biofuels									
Fuel input (TJ)	146	831	2423 e	2048	1036	1538	1319	19.0	3.4
Electricity production (GWh)	7	78	183 e	201	97	147	133	27.3	3.9
Total combustible fuels									
Electricity production (GWh)	19981	28438	29786 e	29167	20663	17997	16103	3.6	-4.0

1. Excludes CHP plants.

2. Coal manufactured gases and natural gas are expressed on a gross calorific value basis.

3. Includes Coking coal as well as peat and peat products, patent fuels, BKB and shale oil

Belgium**Table 6b. Electricity and heat produced for sale from combustible fuels
in combined heat and power plants (CHP plants)**

	1990	2000	2005	2010	2012	2013	2014	90-00	00-14
Steam coal									
Fuel input (1000 t)	2178	14	17	16	15	12	13	-39.6	-0.5
Fuel input (TJ)	53348	386	481	442	416	343	364	-38.9	-0.4
Electricity production (GWh)	5510	89	111	102	96	79	84	-33.8	-0.4
CHP Heat production (TJ)	1508	-	-	-	-	-	-	-	-
Lignite									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
CHP Heat production (TJ)	-	-	-	-	-	-	-	-	-
Coal manufactured gases¹									
Fuel input (TJ)	10487	-	3001	1961	104	274	98	-	-
Electricity production (GWh)	1086	-	226	164	9	20	9	-	-
CHP Heat production (TJ)	71	-	-	-	-	-	-	-	-
Other coal products²									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
CHP Heat production (TJ)	-	-	-	-	-	-	-	-	-
Petroleum products									
Fuel input (1000 t)	171	77	33	50	62	17	30	-7.7	-6.5
Fuel input (TJ)	6836	3029	1332	2216	2833	754	1339	-7.8	-5.7
Electricity production (GWh)	475	428	164	264	267	136	206	-1.0	-5.1
CHP Heat production (TJ)	2762	69	64	518	459	6	226	-30.9	8.8
Natural gas¹									
Fuel input (TJ)	7938	42407	53082	91817	102164	88946	77414	18.2	4.4
Electricity production (GWh)	245	4667	6362	12022	12498	11228	9944	34.3	5.6
CHP Heat production (TJ)	4990	21133	15679	31370	28718	25236	22130	15.5	0.3
Solid Biofuels									
Fuel input (TJ)	-	652	1701	7466	7525	9171	9843	-	21.4
Electricity production (GWh)	-	153	292	1004	1076	1137	1243	-	16.1
CHP Heat production (TJ)	-	-	-	292	316	1015	981	-	-
Industrial waste									
Fuel input (TJ)	-	4719	1317	1058	2518	6595	6121	-	1.9
Electricity production (GWh)	-	313	22	92	215	496	410	-	1.9
CHP Heat production (TJ)	-	78	277	329	446	519	638	-	16.2
Municipal waste									
Fuel input (TJ)	-	592	8718	7114	8228	11568	14300	-	25.5
Electricity production (GWh)	-	32	248	21	304	620	759	-	25.4
CHP Heat production (TJ)	-	270	2999	2559	1354	1638	2288	-	16.5
Biogases and liquid biofuels									
Fuel input (TJ)	-	249	1165 e	4112	4499	4022	4491	-	22.9
Electricity production (GWh)	-	20	121 e	634	715	754	824	-	30.4
CHP Heat production (TJ)	-	41	153	342	436	360	423	-	18.1
Total combustible fuels									
Electricity production (GWh)	7316	5702	7546 e	14303	15180	14470	13479	-2.5	6.3
CHP Heat production (TJ)	9331	21591	19172	35410	31729	28774	26686	8.8	1.5

1. Coal manufactured gases and natural gas are expressed on a gross calorific value basis.

2. Includes Coking coal as well as peat and peat products, patent fuels, BKB and shale oil

Belgium**Table 6c. Heat produced for sale from combustible fuels in heat plants¹**

	1990	2000	2005	2010	2012	2013	2014	90-00	00-14
Steam coal									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Heat production (TJ)	-	-	-	-	-	-	-	-	-
Lignite									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Heat production (TJ)	-	-	-	-	-	-	-	-	-
Coal manufactured gases²									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Heat production (TJ)	-	-	-	-	-	-	-	-	-
Other coal products³									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Heat production (TJ)	-	-	-	-	-	-	-	-	-
Petroleum products									
Fuel input (1000 t)	-	1	-	-	-	-	-	-	-
Fuel input (TJ)	-	23	-	-	-	-	3	-	-13.5
Heat production (TJ)	-	16	-	-	-	-	3	-	-11.3
Natural gas²									
Fuel input (TJ)	-	1382	142	89	133	83	172	-	-13.8
Heat production (TJ)	-	1068	114	73	102	48	141	-	-13.5
Solid biofuels									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Heat production (TJ)	-	-	-	-	-	-	-	-	-
Industrial waste									
Fuel input (TJ)	88	21	-	-	-	-	-	-13.3	-
Heat production (TJ)	68	19	-	-	-	-	-	-12.0	-
Municipal waste									
Fuel input (TJ)	330	471	1001	-	370	370	360	3.6	-1.9
Heat production (TJ)	300	424	127	-	293	293	291	3.5	-2.7
Biogases and liquid biofuels									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Heat production (TJ)	-	-	-	-	-	-	-	-	-
Total combustible fuels									
Heat production (TJ)	368	1527	241	73	395	341	435	15.3	-8.6

1. Excludes CHP plants

2. Coal manufactured gases and natural gas are expressed on a gross calorific value basis.

3. Includes Coking coal as well as peat and peat products, patent fuels, BKB and shale oil

Belgium**Table 7. Net maximum electricity generating capacity on 31 December (GW)**

	1974	1990	2000	2005	2010	2012	2013	2014
Total capacity¹	8.11	14.14	15.69	16.10	18.69	20.77	20.98	20.92
Nuclear	0.01	5.50	5.71	5.80	5.93	5.93	5.93	5.93
Hydro	0.44	1.40	1.41	1.41	1.43	1.43	1.43	1.43
<i>of which: pumped storage</i>	<i>0.40</i>	<i>1.31</i>						
Geothermal	-	-	-	-	-	-	-	-
Solar PV	-	-	-	-	0.90	2.58	2.92	3.02
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	0.01	0.01	0.17	0.91	1.37	1.79	1.93
Other (e.g. fuel cells)	-	-	-	-	-	-	-	-
Combustible fuels	7.65	7.24	8.55	8.71	9.52	9.47	8.91	8.61
<i>of which⁽²⁾:</i>								
<i>Single-fired:</i>								
Coal and Coal products	0.08	-	-	-	-
Liquid fuels	1.25	0.47	0.53	0.48
Natural gas	0.02	0.09	1.01	2.10
Biofuels & waste	-	0.08	0.18	0.37
<i>Multi-fired:</i>								
Solid / liquid	0.60	1.53	0.40	0.41
Solid / natural gas	0.11	0.12	0.17	3.57
Liquid / natural gas	1.82	1.70	4.37	1.68
Solid / liquid / gas	3.77	3.25	1.90	0.11
<u>Type of generation</u>								
Steam	-	6.32	4.27	3.48	4.80	3.80	2.85	2.54
Internal combustion	-	0.17	0.20	0.43	0.64	0.73	0.72	0.74
Gas turbine	-	0.28	1.28	1.31	2.19	2.62	2.63	2.60
Combined cycle	-	0.19	2.79	3.36	1.63	2.12	2.48	2.48
Other	-	0.28	-	0.12	0.26	0.20	0.24	0.24
<u>Peak load</u>	..	10.43	12.65	12.77	13.59	13.14	13.32	12.69
Of which Autoproducers	1.08	0.75	0.44	0.49	2.03	3.87	4.28	4.42
Nuclear	-	-	-	-	-	-	-	-
Hydro	-	-	-	-	-	-	-	-
<i>of which: pumped storage</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>
Geothermal	-	-	-	-	-	-	-	-
Solar PV	-	-	-	-	0.89	2.57	2.91	3.01
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	-	-	-	0.01	0.01	0.01	0.02
Other (e.g. fuel cells)	-	-	-	-	-	-	-	-
Combustible fuels	1.08	0.75	0.44	0.49	1.13	1.29	1.35	1.40

1. Sum of available capacity figures

2. Breakdown of electrical capacity by type of fuel are shown in the individual country chapters.

Belgium**Table 8. Capacity factors (%)**

	1974	1990	2000	2005	2010	2012	2013	2014
Total plants¹	60.2	57.3	61.1	61.7 e	58.1	45.6	45.4	39.7
Nuclear	153.6	88.7	96.2	93.6	92.3	77.6	82.1	64.9
Hydro	17.7	7.3	13.7	13.0	13.4	13.3	13.8	12.0
<i>of which: pumped storage</i>	12.9	5.5	10.8	11.5	11.8	11.4	11.7	10.7
Geothermal	-	-	-	-	-	-	-	-
Solar PV	-	-	-	5.7	7.1	9.5	10.3	10.9
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	16.0	13.1	15.5	16.2	22.9	23.5	27.3
Other (e.g. fuel cells)	-	-	-	-	-	-	31.4	22.8
Combustible fuels	62.6	43.1	45.6	48.9 e	52.1	43.2	41.6	39.2
Of which autoproducers	124.3	42.1	44.1	38.9 e	31.4	25.1	24.4	25.3
Nuclear	-	-	-	-	-	-	-	-
Hydro	-	-	-	-	-	-	-	-
<i>of which: pumped storage</i>	-	-	-	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-	-
Solar PV	-	-	-	5.7	7.1	9.5	10.4	10.9
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	-	11.4	11.4	15.7	19.3	18.4	21.3
Other (e.g. fuel cells)	-	-	-	-	-	-	34.3	34.3
Combustible fuels	124.1	42.1	44.3	32.9 e	48.2	54.2	51.6	53.1

1. The capacity factor is defined as: the annual gross electricity generation (in GWh) divided by the net capacity (in GW) times 365 (days/year) times 24 (hours/day)

Belgium**Table 9a. Electricity imports by origin (GWh)**

	1974	1990	2000	2005	2010	2012	2013	2014
Total imports	2558	4785	11645	14328	12395	16848	17243	21791
Total from OECD	2558	4785	11645	14328	12395	16848	17243	21791
Austria	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-
Canada	-	-	-	-	-	-	-	-
Czech Republic	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-
France	884	2311	8512	6888	3167	7453	8776	11222
Germany	418	-	-	-	-	-	-	-
Greece	-	-	-	-	-	-	-	-
Hungary	-	-	-	-	-	-	-	-
Ireland	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-
Luxembourg	-	-	-	2366	1845	1385	702	994
Mexico	-	-	-	-	-	-	-	-
Netherlands	1256	2474	3133	5074	7383	8010	7765	9575
Norway	-	-	-	-	-	-	-	-
Poland	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-
Slovak Republic	-	-	-	-	-	-	-	-
Slovenia	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-
Switzerland	-	-	-	-	-	-	-	-
Turkey	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-
United States	-	-	-	-	-	-	-	-
Total from non-OECD	-	-	-	-	-	-	-	-
Albania	-	-	-	-	-	-	-	-
Azerbaijan	-	-	-	-	-	-	-	-
Belarus	-	-	-	-	-	-	-	-
Bulgaria	-	-	-	-	-	-	-	-
Croatia	-	-	-	-	-	-	-	-
F.Y.R. of Macedonia	-	-	-	-	-	-	-	-
Georgia	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-
Romania	-	-	-	-	-	-	-	-
Russian Federation	-	-	-	-	-	-	-	-
Serbia	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-
Turkmenistan	-	-	-	-	-	-	-	-
Ukraine	-	-	-	-	-	-	-	-
Non-specified/others	-	-	-	-	-	-	-	-

Belgium**Table 9b. Electricity exports by destination (GWh)**

	1974	1990	2000	2005	2010	2012	2013	2014
Total exports	2882	8509	7319	8024	11844	6912	7603	4188
Total to OECD	2882	8509	7319	8024	11844	6912	7603	4188
Austria	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-
Canada	-	-	-	-	-	-	-	-
Czech Republic	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-
France	1228	3544	201	2221	5409	2341	2435	966
Germany	25	-	-	-	-	-	-	-
Greece	-	-	-	-	-	-	-	-
Hungary	-	-	-	-	-	-	-	-
Ireland	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-
Luxembourg	1175	832	1967	1373	1122	879	1434	185
Mexico	-	-	-	-	-	-	-	-
Netherlands	454	4133	5151	4430	5313	3692	3734	3037
Norway	-	-	-	-	-	-	-	-
Poland	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-
Slovak Republic	-	-	-	-	-	-	-	-
Slovenia	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-
Switzerland	-	-	-	-	-	-	-	-
Turkey	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-
United States	-	-	-	-	-	-	-	-
Total to non-OECD	-	-	-	-	-	-	-	-
Albania	-	-	-	-	-	-	-	-
Azerbaijan	-	-	-	-	-	-	-	-
Belarus	-	-	-	-	-	-	-	-
Bulgaria	-	-	-	-	-	-	-	-
Croatia	-	-	-	-	-	-	-	-
F.Y.R. of Macedonia	-	-	-	-	-	-	-	-
Georgia	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-
Romania	-	-	-	-	-	-	-	-
Russian Federation	-	-	-	-	-	-	-	-
Serbia	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-
Turkmenistan	-	-	-	-	-	-	-	-
Ukraine	-	-	-	-	-	-	-	-
Non-specified/others	-	-	-	-	-	-	-	-

Belgium**Table 10a. Share of electricity in total final consumption (%)**

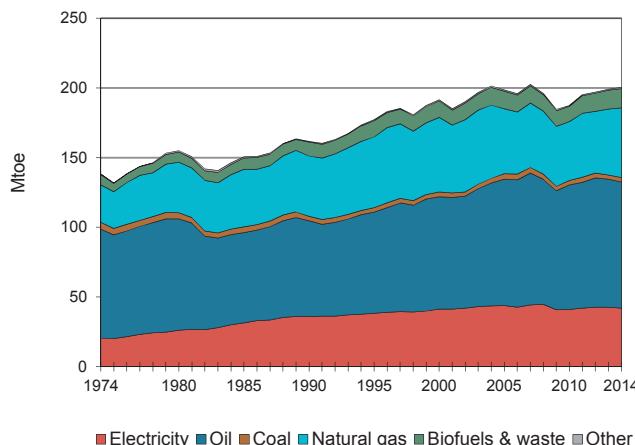
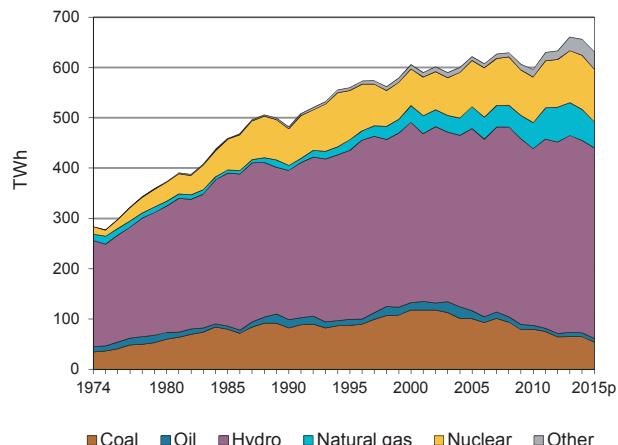
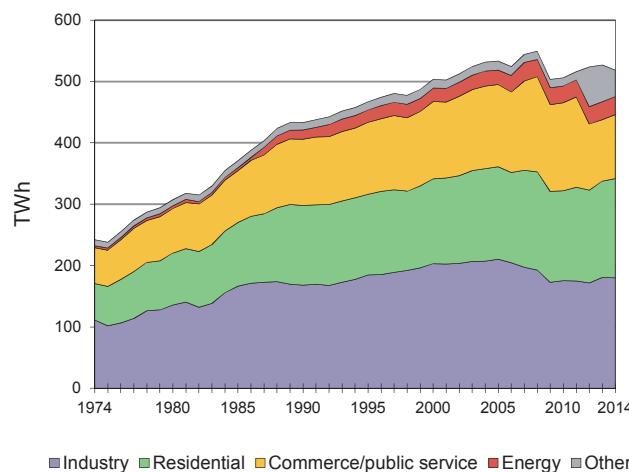
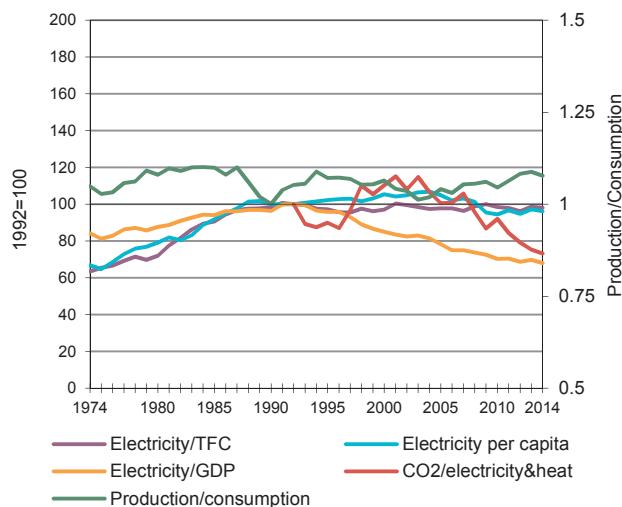
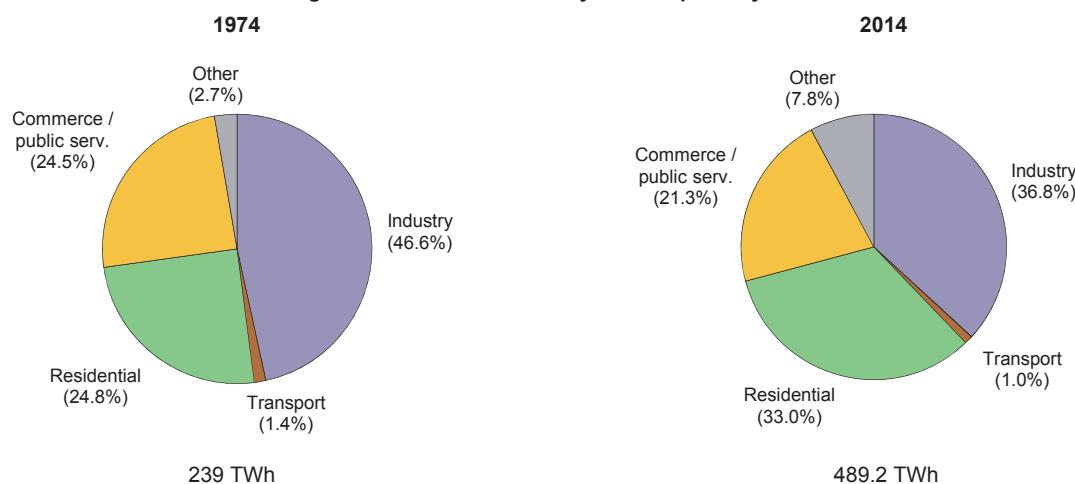
	1974	1990	2000	2005	2010	2012	2013	2014
Share of total final consumption	9.7	15.5	16.0	16.5	16.5	17.6	16.8	17.3
Industry	15.3	25.0	26.6	32.0	27.7	30.8	29.7	30.5
Iron and steel	10.0	13.6	16.6	23.3	32.3	36.6	29.5	31.0
Chem. and petrochemical	33.9	37.0	35.5	35.2	22.1	26.0 e	26.5	27.0
Non-ferrous metals	34.4	51.7	53.6	49.0	57.1	56.7	56.5	59.1
Non-metallic minerals	6.0	12.0	14.7	16.0	9.7	21.8	18.6	17.2
Transport equipment	45.6	42.6	47.3	44.9	44.4	59.4	66.0	74.3
Machinery	27.6	51.4	68.2	77.3	61.0	29.3	23.2	25.9
Mining and quarrying	52.8	73.8	100.0	97.3	47.7	100.0 e	100.0	100.0
Food and tobacco	20.8	32.2	46.8	36.4	35.7	33.4	34.0	35.0
Paper, pulp and printing	40.1	49.2	40.7	37.5	30.9	37.0	31.8	31.4
Wood and wood products	85.1	100.0	55.6	59.0	24.9	14.6	14.6	15.9
Construction	5.7	7.9	16.0	15.1	31.9	37.7	39.9	42.3
Textile and leather	85.9	53.7	68.4	51.5	48.9	43.4	49.6	52.7
Non specified/other	1.4	6.0	8.4	20.0	22.3	26.4 e	27.3	35.1
Transport	1.7	1.6	1.5	1.7	1.6	1.6	1.7	1.6
Rail Transport	30.9	60.5	67.4	77.5	81.0	71.1	71.4	74.2
Pipeline Transport	-	-	100.0	100.0	100.0	7.2	14.0	4.9
Road	-	-	-	-	-	-	-	-
Transport Non Specified	-	-	-	-	-	-	-	-
Other sectors	8.9	19.4	22.6	22.5	24.6	26.9	25.1	28.7
Commercial & publ. serv.	41.8	23.3	30.3	26.3	37.9	41.6	39.1	43.4
Residential	6.9	19.2	21.6	22.5	18.9	20.4 e	19.0	22.0
Agriculture	-	-	2.8	4.0	8.2	10.0	8.9	10.3
Fishing	-	-	-	-	-	-	-	-
Sector non specified	-	-	-	-	17.6	4.8	-	-

Table 10b. Share of heat in total final consumption (%)

	1974	1990	2000	2005	2010	2012	2013	2014
Share of total final consumption	1.1	0.7	1.2	1.0	1.5	1.3	1.3	1.3
Industry	2.7	1.8	3.3	3.5	4.6	4.6	4.5	3.9
Iron and steel	-	0.1	0.5	0.7	-	-	-	-
Chem. and petrochemical	-	4.8	4.2	3.5	9.0	10.7	9.8	8.6
Non-ferrous metals	-	-	-	-	-	-	-	-
Non-metallic minerals	-	-	-	-	-	-	-	-
Transport equipment	-	-	-	-	-	-	-	-
Machinery	-	-	-	-	-	-	-	-
Mining and quarrying	-	-	-	-	-	-	-	-
Food and tobacco	-	-	-	-	2.2	3.2 e	2.9	3.3
Paper, pulp and printing	-	-	-	-	6.6	5.7	5.5	2.9
Wood and wood products	-	-	-	-	-	-	-	-
Construction	-	-	-	-	-	-	-	-
Textile and leather	-	-	-	-	0.8	0.4	0.3	0.4
Non specified/other	18.4	7.4	13.9	30.9	0.1	-	-	-
Transport	-	-	-	-	-	-	-	-
Other sectors	-	0.3	0.5	0.4	0.6	0.4	0.5	0.9
Commercial & publ. serv.	-	0.5	0.4	0.3	1.5	1.0	1.3	2.2
Residential	-	0.2	0.2	0.1	0.1	0.1	0.1	0.2
Agriculture	-	-	-	-	0.6	0.2	0.4	0.2
Fishing	-	-	-	-	-	-	-	-
Sector non specified	-	55.1	100.0	100.0	-	-	-	-

Source: IEA/OECD World Energy Balances.

Canada

Figure 1. Total final consumption by fuel**Figure 2. Electricity generation by fuel****Figure 3. Electricity consumption by sector****Figure 4. Electricity indicators****Figure 5. Total final electricity consumption by sector**

Canada**Table 1. Energy consumption, GDP and population**

	1974	1990	2000	2010	2013	2014	2015p	74-00	00-15
TPES (Mtoe)	161.71	211.29	253.62	264.85	271.67	279.88	272.46	1.7	0.5
GDP (billion 2005 USD)	639.52	1014.07	1342.74	1613.46	1730.75	1773.55	1792.67	2.9	1.9
TPES/GDP ¹	0.25	0.21	0.19	0.16	0.16	0.16	0.15	-1.1	-1.4
Population (millions)	22.81	27.69	30.69	34.01	35.15	35.54	35.89	1.1	1.0
TPES/population ²	7.09	7.63	8.27	7.79	7.73	7.88	7.59	0.6	-0.6
TPES/GDP (2005 = 100)	142	117	106	92	88	89	85	-1.1	-1.4
Ele.TFC/GDP(2005=100) ³	112	123	107	89	86	83	..	-0.2	..
Ele.TFC/population ⁴	10484	15102	15697	14080	14166	13771	..	1.6	..
Elec. generated (TWh) ⁵	283.52	482.04	605.60	595.84	660.68	656.11	631.45	3.0	0.3

Source: IEA/OECD *World Energy Balances* and OECD *Main Economic Indicators*.**Table 2. Total primary energy supply (TPES) by source**

	1974	1990	2000	2010	2013	2014	2015p	74-00	00-15	
TPES (Mtoe)	161.71	211.29	253.62	264.85	271.67	279.88	272.46	1.7	0.5	
Coal	14.86	24.28	31.68	23.21	17.89	19.40	18.55	3.0	-3.5	
Oil	81.13	76.51	87.10	97.84	94.72	97.29	96.24	0.3	0.7	
Natural gas	36.95	54.73	74.24	78.61	86.18	88.73	85.72	2.7	1.0	
Biofuels & waste	7.73	10.88	13.84	12.70	14.99	15.30	14.62	2.3	0.4	
Nuclear	4.04	19.40	18.97	23.63	26.96	28.06	27.18	6.1	2.4	
Geothermal	-	-	-	-	-	-	-	-	-	
Solar, wind, tide ⁶	-	0.00	0.03	e	0.80	1.71	2.13	2.67	-	35.9
Hydro	18.12	25.52	30.83	30.22	33.69	32.89	32.62	2.1	0.4	
Net electricity imports ⁷	-1.11	-0.03	-3.07	-2.15	-4.46	-3.92	-5.13	4.0	3.5	
Heat	-	-	-	-	-	-	-	-	-	

Source: IEA/OECD *World Energy Balances*.

1. In units of toe/2005 thousand US dollars.
2. In units of toe/per capita.
3. Ele.TFC = electricity total final consumption.
4. In units of kWh/per capita.
5. Electricity generated = gross production - amount of electricity produced in pumped storage plants.
6. Includes wave, ocean and other (e.g. fuel cells).
7. Net Imports = total imports - total exports

Canada

Table 3a. Summary electricity production and consumption¹ (TWh)

	1974	1990	2000	2005	2010	2013	2014	2015e
Gross production	283.62	482.15 e	605.71 e	621.71	595.95	660.80	656.23	631.57
- Own use by power plant	3.89	14.41	19.05	19.67	18.18	19.48	19.27	-
Net production	279.73	467.74	586.66	602.03	577.77	641.31	636.96	-
- Used for heat pumps	-	-	-	-	-	-	-	-
- Used for electric boilers	-	-	-	-	-	-	-	-
- Used for pumped storage	0.23	0.20	0.21	0.21	0.21	0.21	0.21	0.21
+ Imports	2.44	17.78	15.34	18.68	18.61	10.69	12.81	8.73
- Exports	15.40	18.13	50.98	42.33	43.63	62.58	58.42	68.43
Electrical energy supplied	266.54	467.19	550.81	578.17	552.54	589.22	591.14	..
- Transmission & distr. losses	24.23	34.11	47.27	51.58	51.69	56.33	58.20	..
- Statistical difference	-	0.10	0.14	-6.46	-5.10	5.85	14.17	..
Total consumption	242.31	432.99	503.40	533.05	505.95	527.04	518.77	..
Energy industry consumption²	3.27	14.94	21.90	23.62	27.31	29.22	29.53	..
Coal Mines	0.44	1.07	1.07	1.06	1.02	1.03	1.01	..
Oil + Gas Extraction	-	8.21	15.40	17.36	20.38	22.96	23.36	..
Patent Fuel Plants	-	-	-	-	-	-	-	..
Coke Ovens	0.05	-	-	-	-	-	-	..
BKB plants	-	-	-	-	-	-	-	..
Gas Works	-	-	-	-	-	-	-	..
Blast Furnaces	-	-	-	-	-	-	-	..
Oil Refineries	2.77	5.66	5.43	5.20	5.91	5.23	5.16	..
Nuclear Industry	-	-	-	-	-	-	-	..
Coal Liquefaction Plants	-	-	-	-	-	-	-	..
LNG/Regasification Plants	-	-	-	-	-	-	-	..
Energy - Non Specified	-	-	-	-	-	-	-	..
Final consumption	239.04	418.04	481.50	509.44	478.64	497.82	489.24	..
Industry	111.38	167.94	203.31	210.22	175.41	180.53	180.22	..
Iron and steel	7.56	8.33	10.26	9.92	8.77	8.12	8.12	..
Chem. and petrochemical	11.18	18.21	19.19	21.81	18.41	16.75	19.60	..
Non-ferrous metals	27.29	36.97	50.93	56.56	52.50	49.89	49.89	..
Non-metallic minerals	4.11	4.73	4.30	4.64	4.54	6.05	6.44	..
Transport equipment	2.72	-	-	4.50	3.66	3.48	3.45	..
Machinery	3.14	-	-	2.04	1.78	2.59	2.54	..
Mining and quarrying	8.96	28.75	33.48	13.45	8.19	15.80	15.57	..
Food and tobacco	3.57	-	-	4.81	5.71	5.64	5.64	..
Paper, pulp and printing	30.09	48.84	61.58	59.21	39.97	37.06	36.66	..
Wood and wood products	2.33	-	-	4.95	4.51	4.68	4.68	..
Construction	-	-	-	-	-	-	-	..
Textile and leather	2.28	-	-	1.64	1.00	1.00	1.00	..
Non specified/other	8.16	22.12	23.57	26.69	26.37	29.46	26.63	..
Transport	3.33	3.27	4.52	4.26	3.77	4.71	4.93	..
Rail Transport	-	-	-	-	-	-	-	..
Pipeline Transport	2.89	2.41	3.66	3.27	3.07	3.50	3.69	..
Road	-	0.86	0.87	0.98	0.70	1.21	1.24	..
Transport Non Specified	0.44	-	-	-	-	-	-	..
Commercial & publ. serv.	59.30	129.83	138.23	150.99	146.80	157.33	161.57	..
Residential	58.55	108.36	125.83	133.73	143.26	99.78	104.31	..
Agriculture	6.49	8.64	9.60	10.25	9.39	9.96	9.39	..
Fishing	-	-	-	-	-	-	-	..
Sector non specified	-	-	-	-	-	45.52	28.83	..

1. Electricity generation from main activity producer power plants and autoproducers .

2. Energy industry consumption = electricity consumed by transformation industries for heating, traction and lighting purposes;

excludes own use by power plant and electricity used for heat pumps, electric boilers and pumped storage.

Canada

Table 3b. Summary heat production and consumption¹ (TJ)

	1974	1990	2000	2005	2010	2013	2014	2015e
Gross production	9006	28587 e	35983 e	38614	19478	28679	37679	37679
- Own use by power plant	-	-	-	-	-	-	-	-
Net production	9006	28587 e	35983 e	38614	19478	28679	37679	-
- Used for electricity production	-	-	-	-	-	-	-	-
+ Imports	-	-	-	-	-	-	-	-
- Exports	-	-	-	-	-	-	-	-
Heat energy supplied	9006	28587 e	35983 e	38614	19478	28679	37679	..
- Transmission & distr. losses	-	-	-	1	-	-	-	..
- Statistical difference	-	2002	2002	-	-	-	-	..
Total consumption	9006	26585	33981	38613	19478	28679	37679	..
Energy industry consumption²	-	-	-	-	-	-	-	..
Coal Mines	-	-	-	-	-	-	-	..
Oil + Gas Extraction	-	-	-	-	-	-	-	..
Patent Fuel Plants	-	-	-	-	-	-	-	..
Coke Ovens	-	-	-	-	-	-	-	..
BKB plants	-	-	-	-	-	-	-	..
Gas Works	-	-	-	-	-	-	-	..
Blast Furnaces	-	-	-	-	-	-	-	..
Oil Refineries	-	-	-	-	-	-	-	..
Nuclear Industry	-	-	-	-	-	-	-	..
Coal Liquefaction Plants	-	-	-	-	-	-	-	..
LNG/Regasification Plants	-	-	-	-	-	-	-	..
Energy - Non Specified	-	-	-	-	-	-	-	..
Final consumption	9006	26585	33981	38613	19478	28679	37679	..
Industry	9006	26366	33626	35963	19450	27527	36311	..
Iron and steel	-	-	-	58	64	57	57	..
Chem. and petrochemical	9006	18959	6095	9173	9962	13671	13518	..
Non-ferrous metals	-	-	-	-	-	-	-	..
Non-metallic minerals	-	-	-	-	-	-	-	..
Transport equipment	-	-	-	-	-	-	-	..
Machinery	-	-	-	-	-	-	-	..
Mining and quarrying	-	-	-	-	-	-	-	..
Food and tobacco	-	-	-	100	98	94	94	..
Paper, pulp and printing	-	3088	15886	19462	1756	2626	2781	..
Wood and wood products	-	-	-	-	-	-	-	..
Construction	-	-	-	69	35	33	33	..
Textile and leather	-	-	-	-	-	-	-	..
Non specified/other	-	4319	11645	7101	7535	11046	19828	..
Transport	-	-	-	-	-	-	-	..
Commercial & publ. serv.	-	202	313	2591	9	311	527	..
Residential	-	2	-	-	-	-	-	..
Agriculture	-	15	42	59 e	-	-	-	..
Fishing	-	-	-	-	-	-	-	..
Sector non specified	-	-	-	-	19	841	841	..

1. Heat generation from main activity producer power plants and autoproducers.

2. Energy industry consumption = electricity consumed by transformation industries for heating, traction and lighting purposes;

excludes own use by power plant and electricity used for heat pumps, electric boilers and pumped storage.

Canada

Table 4a. Gross electricity production by source (TWh)

	1974	1990	2000	2010	2013	2014	2015e	74-00	00-15
Total plants gross production¹	283.62	482.15	605.71	595.95	660.80	656.23	631.57	3.0	0.3
Nuclear	14.70	72.97	72.80	90.66	103.44	107.68	104.28	6.3	2.4
Hydro	210.77	296.85	358.62	351.46	391.86	382.57	379.38	2.1	0.4
- Of which pumped storage	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.1	-
Geothermal	-	-	-	-	-	-	-	-	-
Solar	-	-	0.02	0.12	1.50	1.76	1.76	-	36.8
Wind	-	-	0.26	8.72	17.96	22.54	28.83	-	36.7
Combustible fuels	58.15	112.31	173.98	144.96	143.41	139.40	117.31	4.3	-2.6
- Coal	..	82.22	117.59	79.55	65.19	64.72	54.46 e	..	-5.0
- Oil	..	16.47	14.69	7.85	7.83	7.97	6.71 e	..	-5.1
- Natural gas	..	9.65	33.47	51.62	65.18	61.36	51.63 e	..	2.9
- Biofuels & waste	..	3.97	8.23	5.95	5.21	5.36	4.51 e	..	-3.9
Other ²	-	0.03	0.03	0.03	2.63	2.28	0.02	-	-4.9
Of which autoproducers	39.07	41.85	47.94	45.89	56.20	56.69	..	0.8	..
Nuclear	-	-	-	-	-	-	..	-	..
Hydro	32.73	31.27	31.21	27.21	31.25	31.05	..	-0.2	..
- Of which pumped storage	-	-	-	-	-	-	..	-	..
Geothermal	-	-	-	-	-	-	..	-	..
Solar	-	-	-	-	-	-	..	-	..
Wind	-	-	-	0.00	0.02	0.13	..	-	..
Combustible fuels	6.34	10.57	16.73	18.68	24.93	25.51	..	3.8	..
- Coal	..	0.10	0.33	0.04	0.04	0.03
- Oil	..	1.85	2.21	2.11	2.04	1.68
- Natural gas	..	4.79	6.82	11.50	18.62	19.48
- Biofuels & waste	..	3.83	7.37	5.03	4.24	4.32
Other ²	-	-	-	-	-	-	..	-	..

Table 4b. Gross heat production by source (PJ)

	1974	1990	2000	2010	2013	2014	2015e	74-00	00-15
Total plants heat generation³	9.01	28.59	35.98	19.48	28.68	37.68	37.68	5.5	0.3
Nuclear	9.01	16.03	-	-	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-	-	-
Combustible fuels	-	12.56	35.98	19.48	28.68	37.68	37.68	-	0.3
- Coal	..	-	-	-	0.02	0.02	0.02 e	..	-
- Oil	..	2.94	2.43	1.30	0.05	0.03	0.03 e	..	-25.7
- Natural gas	..	7.60	31.54	13.49	23.45	32.48	32.48 e	..	0.2
- Biofuels & waste	..	2.01	2.01	4.69	5.16	5.16	5.16 e	..	6.5
Chemical processes	-	-	-	-	-	-	-	-	-
Heat pumps	-	-	-	-	-	-	-	-	-
Electric boilers	-	-	-	-	-	-	-	-	-
Other sources	-	-	-	-	-	-	-	-	-
Of which Autoproducers	-	-	-	0.02	0.91	0.91	..	-	..
Nuclear	-	-	-	-	-	-	..	-	..
Geothermal	-	-	-	-	-	-	..	-	..
Combustible fuels	-	-	-	0.02	0.91	0.91	..	-	..
- Coal	..	-	-	-	0.02	0.02
- Oil	..	-	-	-	-	-
- Natural gas	..	-	-	-	-	-
- Biofuels & waste	..	-	-	0.02	0.89	0.89
Chemical processes	-	-	-	-	-	-	..	-	..
Heat pumps	-	-	-	-	-	-	..	-	..
Electric boilers	-	-	-	-	-	-	..	-	..
Other sources	-	-	-	-	-	-	..	-	..

1. Electricity generated from main activity producer power plants and autoproducers.

2. Includes wave, ocean and other sources (e.g. fuel cells, electricity from chemical heat).

3. Total heat generation = gross production of heat from main activity producer + heat sold in autoproducers.

Canada**Table 5. Net electricity production by autoproducers (GWh)**

	1974	1990	2000	2010	2012	2013	2014	74-00	00-14
Total	5924	40844	46535	44397	53154	54255	54716	8.3	1.2
Total energy	-	-	-	6804	7799	7017	7130	-	-
Coal mines	-	-	-	-	-	-	-	-	-
Oil and gas extraction	-	-	-	-	-	-	-	-	-
Patent fuel plants	-	-	-	-	-	-	-	-	-
Coke ovens	-	-	-	-	-	-	-	-	-
Gas works	-	-	-	-	-	-	-	-	-
BKB	-	-	-	-	-	-	-	-	-
Oil refineries	-	-	-	-	-	-	-	-	-
Energy non specified/other	-	-	-	-	-	-	-	-	-
Total industry	5924	40821	45827	37593	45329	47174	47521	8.2	0.3
Iron and steel	-	-	-	-	-	-	-	-	-
Chemical and petrochemical	-	-	-	-	-	-	-	-	-
Non-ferrous metals	-	-	-	-	-	-	-	-	-
Non-metallic minerals	-	-	-	-	-	-	-	-	-
Transport equipment	-	-	-	-	-	-	-	-	-
Machinery	-	-	-	-	-	-	-	-	-
Mining and quarrying	-	-	-	1457	1671	1504	1528	-	-
Food and tobacco	-	-	-	-	-	-	-	-	-
Pulp and printing	-	-	-	-	-	-	-	-	-
Wood and wood products	-	-	-	-	-	-	-	-	-
Construction	-	-	-	-	-	-	-	-	-
Textile and leather	-	-	-	-	-	-	-	-	-
Non specified/other industries	5924	40821	45827	36136	43658	45670	45993	8.2	0.0
Total transport	-	-	-	-	-	-	-	-	-
Rail	-	-	-	-	-	-	-	-	-
Pipeline	-	-	-	-	-	-	-	-	-
Transport non specified	-	-	-	-	-	-	-	-	-
Other	-	23	708	-	26	64	65	-	-15.7
Commerce and pub. services	-	23	708	-	-	-	-	-	-
Residential	-	-	-	-	-	-	-	-	-
Agriculture	-	-	-	-	-	-	-	-	-
Fishing	-	-	-	-	-	-	-	-	-
Sector non specified	-	-	-	-	26	64	65	-	-

Notes: Data reported in this table prior to 1990 may refer to combustible fuels only.

Canada

Table 6a. Electricity production from combustible fuels in electricity plants¹

	1990	2000	2005	2010	2012	2013	2014	90-00	00-14
Steam coal									
Fuel input (1000 t)	33070	44972	41136	33643	27792	27748	27892	3.1	-3.4
Fuel input (TJ)	706207 e	970896 e	827804	657723	534944	532256	527926	3.2	-4.3
Electricity production (GWh)	70588	104206	85603	66063	52092	52569	54721	4.0	-4.5
Lignite									
Fuel input (1000 t)	9084	10857	10608 e	10102	9189	8676	6973	1.8	-3.1
Fuel input (TJ)	129447 e	154712 e	148715	141620	128824	121633	97751	1.8	-3.2
Electricity production (GWh)	11581	13071	14878	13442	12275	12585	9963	1.2	-1.9
Coal manufactured gases²									
Fuel input (TJ)	577	3494	913	334	356	304	286	19.7	-16.4
Electricity production (GWh)	51	311	109	40	43	36	34	19.8	-14.6
Other coal products³									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
Oil and petroleum products									
Fuel input (1000 t)	3842	3166	3659	1993	1722	1947	1934	-1.9	-3.5
Fuel input (TJ)	159901 e	130032 e	139515	74090	63500	71530	72052	-2.0	-4.1
Electricity production (GWh)	16458	14680	15838	7844	6919	7821	7964	-1.1	-4.3
Natural gas²									
Fuel input (TJ)	75992	227749	273094 e	410733	506042 e	443084	463007	11.6	5.2
Electricity production (GWh)	9423	23418	33287	40679	55902	46401	46327	9.5	5.0
Solid biofuels									
Fuel input (TJ)	36758	70704	50906	48095	39323	39323	40065	6.8	-4.0
Electricity production (GWh)	3829	7365	5232	4943	4041	4041	4118	6.8	-4.1
Industrial waste									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
Municipal waste									
Fuel input (TJ)	-	1088	1034	1309	1527	1527	1527	-	2.5
Electricity production (GWh)	-	36	68	86	100	117	137	-	10.0
Biogases and liquid biofuels									
Fuel input (TJ)	276	7787	5124	7714	8494	8401	8714	39.7	0.8
Electricity production (GWh)	23	708	499	749	826	797	847	40.9	1.3
Total combustible fuels									
Electricity production (GWh)	111953	163795	155514	133846	132198	124367	124111	3.9	-2.0

1. Excludes CHP plants.

2. Coal manufactured gases and natural gas are expressed on a gross calorific value basis.

3. Includes Coking coal as well as peat and peat products, patent fuels, BKB and shale oil

Canada

**Table 6b. Electricity and heat produced for sale from combustible fuels
in combined heat and power plants (CHP plants)**

	1990	2000	2005	2010	2012	2013	2014	90-00	00-14
Steam coal									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
CHP Heat production (TJ)	-	-	-	-	-	-	-	-	-
Lignite									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
CHP Heat production (TJ)	-	-	-	-	-	-	-	-	-
Coal manufactured gases¹									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
CHP Heat production (TJ)	-	-	-	-	-	-	-	-	-
Other coal products²									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
CHP Heat production (TJ)	-	-	-	-	-	-	-	-	-
Petroleum products									
Fuel input (1000 t)	77	94	167	44	5	3	2	2.0	-24.0
Fuel input (TJ)	3190	3903	4409	1764	208	132	97	2.0	-23.2
Electricity production (GWh)	10	10	10 e	10	10	10	10	-	-
CHP Heat production (TJ)	2943	2434	2914	1298	111	51	28	-1.9	-27.3
Natural gas¹									
Fuel input (TJ)	10919	114464	111659 e	116537	118570 e	172866	148021	26.5	1.9
Electricity production (GWh)	231	10054	10330	10938	13692	18776	15028	45.8	2.9
CHP Heat production (TJ)	7601	31535	33157	13486	24341	23454	32477	15.3	0.2
Solid Biofuels									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
CHP Heat production (TJ)	-	-	-	-	-	-	-	-	-
Industrial waste									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
CHP Heat production (TJ)	-	-	-	-	-	-	-	-	-
Municipal waste									
Fuel input (TJ)	1254	1254	1276	1364	1383	1383	1383	-	0.7
Electricity production (GWh)	117	117	125	126	128	128	128	-	0.6
CHP Heat production (TJ)	633	633	633	701	709	709	709	-	0.8
Biogases and liquid biofuels									
Fuel input (TJ)	-	-	1100	486	603	1492	1492	-	-
Electricity production (GWh)	-	-	43	43	35	125	125	-	-
CHP Heat production (TJ)	-	-	284	38	112	148	148	-	-
Total combustible fuels									
Electricity production (GWh)	358	10181	10508 e	11117	13865	19039	15291	39.8	2.9
CHP Heat production (TJ)	11177	34602	36988	15523	25273	24362	33362	12.0	-0.3

1. Coal manufactured gases and natural gas are expressed on a gross calorific value basis.

2. Includes Coking coal as well as peat and peat products, patent fuels, BKB and shale oil

Canada**Table 6c. Heat produced for sale from combustible fuels in heat plants¹**

	1990	2000	2005	2010	2012	2013	2014	90-00	00-14
Steam coal									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Heat production (TJ)	-	-	-	-	-	-	-	-	-
Lignite									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Heat production (TJ)	-	-	-	-	-	-	-	-	-
Coal manufactured gases²									
Fuel input (TJ)	-	-	-	-	-	43	42	-	-
Heat production (TJ)	-	-	-	-	-	18	18	-	-
Other coal products³									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Heat production (TJ)	-	-	-	-	-	-	-	-	-
Petroleum products									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Heat production (TJ)	-	-	-	-	-	-	-	-	-
Natural gas²									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Heat production (TJ)	-	-	-	-	-	-	-	-	-
Solid biofuels									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Heat production (TJ)	-	-	-	-	-	-	-	-	-
Industrial waste									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Heat production (TJ)	-	-	-	-	-	-	-	-	-
Municipal waste									
Fuel input (TJ)	2629	2629	2536	2591	2905	4237	4237	-	3.5
Heat production (TJ)	1381	1381	1381	1411	1582	2307	2307	-	3.7
Biogases and liquid biofuels									
Fuel input (TJ)	-	-	453	4712	3951	3688	3688	-	-
Heat production (TJ)	-	-	245	2544	2133	1992	1992	-	-
Total combustible fuels									
Heat production (TJ)	1381	1381	1626	3955	3715	4317	4317	-	8.5

1. Excludes CHP plants

2. Coal manufactured gases and natural gas are expressed on a gross calorific value basis.

3. Includes Coking coal as well as peat and peat products, patent fuels, BKB and shale oil

Canada

Table 7. Net maximum electricity generating capacity on 31 December (GW)

	1974	1990	2000	2005	2010	2012	2013	2014
Total capacity¹	57.53	104.14	111.32	123.21	132.38	130.55	133.82	137.34
Nuclear	2.67	13.54	10.62	13.35	12.67	13.37	14.03	14.03
Hydro	36.78	59.38	67.41	71.98	75.08	75.54	75.54	75.54
<i>of which: pumped storage</i>	-	0.19	0.18	0.18	0.18	0.17	0.17	0.17
Geothermal	-	-	-	-	-	-	-	-
Solar PV	-	-	0.01	0.02	0.22	0.77	1.21	1.84
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	0.02	0.02	e	0.02	0.02	0.02	0.02
Wind	-	-	0.09	0.68	3.97	6.20	7.80	9.69
Other (e.g. fuel cells)	-	-	-	-	-	-	-	-
Combustible fuels	18.09	31.20	33.18	37.17	40.42	34.66	35.22	36.22
<i>of which⁽²⁾:</i>								
<i>Single-fired:</i>								
Coal and Coal products	9.13	17.71	..	14.70	14.12	9.90	10.18	9.81
Liquid fuels	4.66	7.15	..	7.35	7.47	6.64	7.10	6.87
Natural gas	1.59	3.47	..	11.96	14.29	15.26	15.97	17.50
Biofuels & waste	-	0.91	..	3.15	4.54	2.86	1.96	2.04
<i>Multi-fired:</i>								
Solid / liquid	-	-
Solid / natural gas	1.63	1.53	-
Liquid / natural gas	0.93	0.43	-
Solid / liquid / gas	0.14	-
<i>Type of generation</i>								
Steam	-	28.59	27.72	25.85	25.49	20.44	21.69	22.11
Internal combustion	-	0.57	0.65	0.61	0.80	0.81	1.14	1.67
Gas turbine	-	2.04	4.81	9.11	12.41	11.76	12.39	12.44
Combined cycle	-	-	-	-	-	-	-	-
Other	-	-	-	1.60	1.72	1.65	-	-
<i>Peak load</i>	..	84.09	-
Of which Autoproducers	5.87	6.13	7.85	9.58	10.57	10.55	9.25	9.49
Nuclear	-	-	-	-	-	-	-	-
Hydro	4.40	4.29	4.27	4.61	5.09	5.14	5.31	5.31
<i>of which: pumped storage</i>	-	-	-	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-	-
Solar PV	-	-	-	-	-	-	-	-
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	-	-	-	-	-	0.06	0.07
Other (e.g. fuel cells)	-	-	-	-	-	-	-	-
Combustible fuels	1.47	1.84	3.58	4.97	5.48	5.41	3.88	4.12

1. Sum of available capacity figures

2. Breakdown of electrical capacity by type of fuel are shown in the individual country chapters.

Canada

Table 8. Capacity factors (%)

	1974	1990	2000	2005	2010	2012	2013	2014
Total plants¹	56.3	52.9	62.1	57.6	51.4	55.3	56.4	54.5
Nuclear	62.9	61.5	78.3	78.7	81.7	81.0	84.2	87.6
Hydro	65.4	57.1	60.7	57.4	53.4	57.5	59.2	57.8
<i>of which: pumped storage</i>	-	6.8	7.2	7.2	7.2	7.3	7.3	7.3
Geothermal	-	-	-	-	-	-	-	-
Solar PV	-	-	26.1 e	11.4	6.0	4.8	14.1	10.9
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	14.8	18.3 e	16.0	16.0	15.4	8.6	9.1
Wind	-	-	32.8	26.4	25.1	20.8	26.3	26.5
Other (e.g. fuel cells)	-	-	-	-	-	-	-	-
Combustible fuels	36.7	41.1	59.9	51.0	40.9	48.1	46.5	43.9
Of which autoproducers	76.0	77.9	69.8	56.2	49.6	59.5	69.3	68.2
Nuclear	-	-	-	-	-	-	-	-
Hydro	84.9	83.2	83.5	78.2	61.1	71.2	67.2	66.8
<i>of which: pumped storage</i>	-	-	-	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-	-
Solar PV	-	-	-	-	-	-	-	-
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	-	-	-	-	-	3.2	20.0
Other (e.g. fuel cells)	-	-	-	-	-	-	-	-
Combustible fuels	49.3	65.6	53.4	35.7	38.9	48.4	73.4	70.8

1. The capacity factor is defined as: the annual gross electricity generation (in GWh) divided by the net capacity (in GW) times 365 (days/year) times 24 (hours/day)

Canada**Table 9a. Electricity imports by origin (GWh)**

	1974	1990	2000	2005	2010	2012	2013	2014
Total imports	2441	17781	15342	18680	18609	10841	10694	12808
Total from OECD	2441	17781	15342	18680	18609	10841	10694	12808
Austria	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-
Canada	-	-	-	-	-	-	-	-
Czech Republic	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-
Greece	-	-	-	-	-	-	-	-
Hungary	-	-	-	-	-	-	-	-
Ireland	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-
Luxembourg	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-
Poland	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-
Slovak Republic	-	-	-	-	-	-	-	-
Slovenia	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-
Switzerland	-	-	-	-	-	-	-	-
Turkey	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-
United States	2441	17781	15342	18680	18609	10841	10694	12808
Total from non-OECD	-	-	-	-	-	-	-	-
Albania	-	-	-	-	-	-	-	-
Azerbaijan	-	-	-	-	-	-	-	-
Belarus	-	-	-	-	-	-	-	-
Bulgaria	-	-	-	-	-	-	-	-
Croatia	-	-	-	-	-	-	-	-
F.Y.R. of Macedonia	-	-	-	-	-	-	-	-
Georgia	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-
Romania	-	-	-	-	-	-	-	-
Russian Federation	-	-	-	-	-	-	-	-
Serbia	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-
Turkmenistan	-	-	-	-	-	-	-	-
Ukraine	-	-	-	-	-	-	-	-
Non-specified/others	-	-	-	-	-	-	-	-

Canada**Table 9b. Electricity exports by destination (GWh)**

	1974	1990	2000	2005	2010	2012	2013	2014
Total exports	15402	18130	50983	42332	43627	57639	62578	58421
Total to OECD	15402	18130	50983	42332	43627	57639	62578	58421
Austria	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-
Canada	-	-	-	-	-	-	-	-
Czech Republic	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-
Greece	-	-	-	-	-	-	-	-
Hungary	-	-	-	-	-	-	-	-
Ireland	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-
Luxembourg	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-
Poland	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-
Slovak Republic	-	-	-	-	-	-	-	-
Slovenia	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-
Switzerland	-	-	-	-	-	-	-	-
Turkey	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-
United States	15402	18130	50983	42332	43627	57639	62578	58421
Total to non-OECD	-	-	-	-	-	-	-	-
Albania	-	-	-	-	-	-	-	-
Azerbaijan	-	-	-	-	-	-	-	-
Belarus	-	-	-	-	-	-	-	-
Bulgaria	-	-	-	-	-	-	-	-
Croatia	-	-	-	-	-	-	-	-
F.Y.R. of Macedonia	-	-	-	-	-	-	-	-
Georgia	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-
Romania	-	-	-	-	-	-	-	-
Russian Federation	-	-	-	-	-	-	-	-
Serbia	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-
Turkmenistan	-	-	-	-	-	-	-	-
Ukraine	-	-	-	-	-	-	-	-
Non-specified/others	-	-	-	-	-	-	-	-

Canada**Table 10a. Share of electricity in total final consumption (%)**

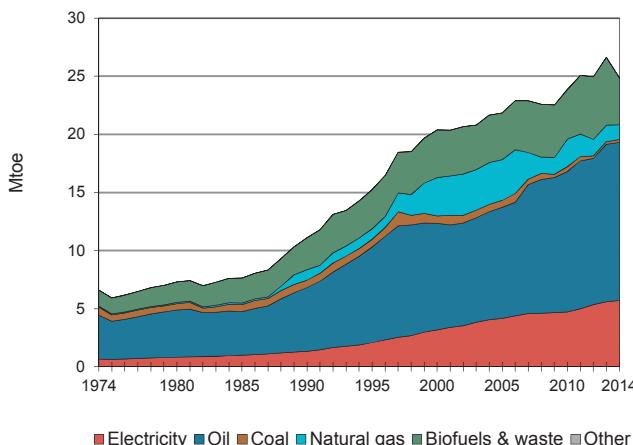
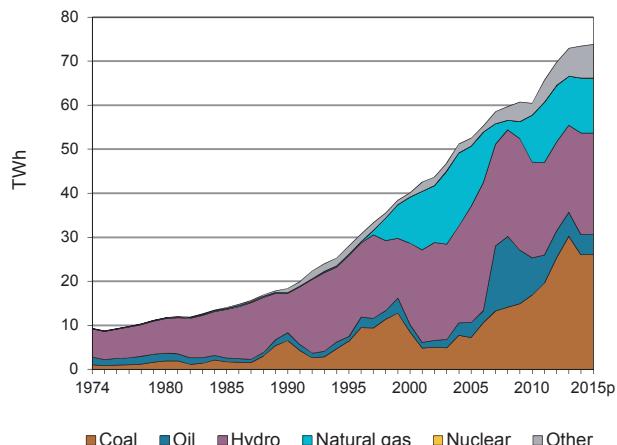
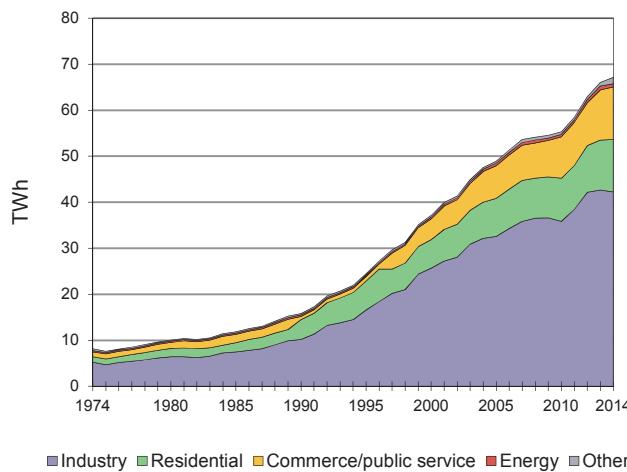
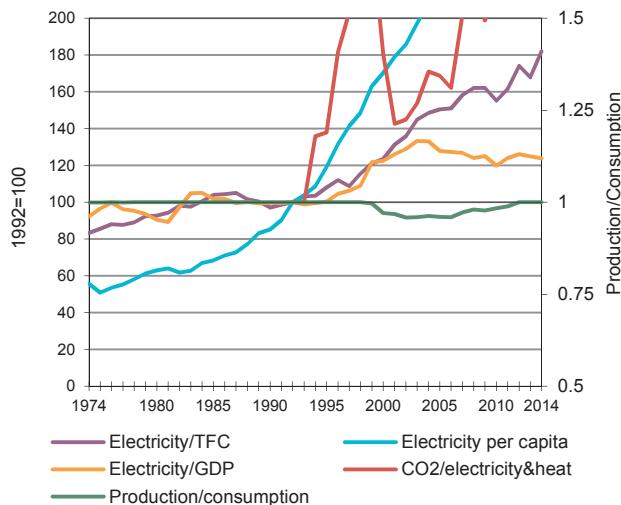
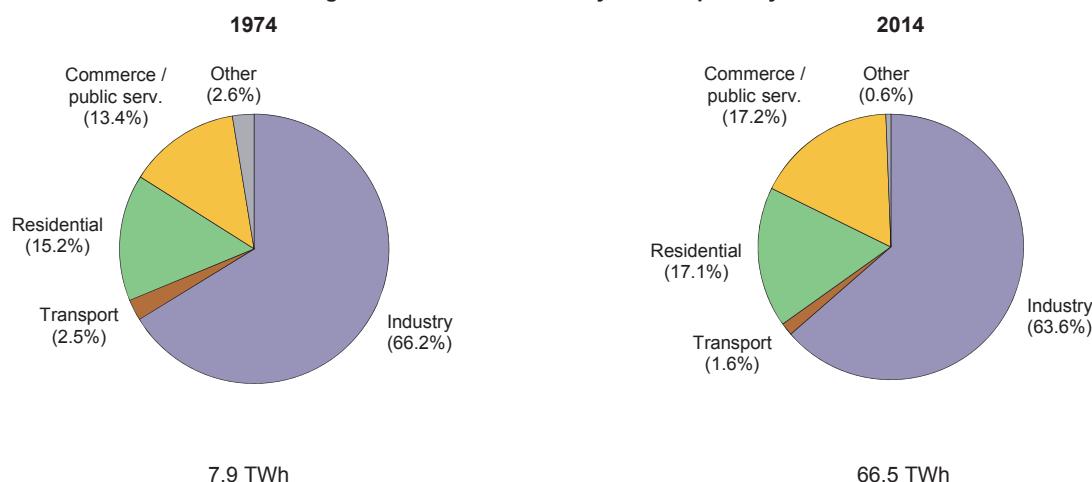
	1974	1990	2000	2005	2010	2012	2013	2014
Share of total final consumption	14.9	22.2	21.6	22.1	22.0	21.7	21.5	21.0
Industry	20.0	30.6	31.7	34.3	35.4	32.3	32.8	32.3
Iron and steel	16.5	17.9	18.1	19.6	18.9	18.2	17.5	16.7
Chem. and petrochemical	40.6	31.4	32.3	35.4	28.9	26.8	23.2	25.2
Non-ferrous metals	69.3	74.9	79.9	82.2	84.8	82.9	84.1	83.3
Non-metallic minerals	21.5	28.8	24.2	20.6	21.1	22.1	22.6	22.9
Transport equipment	42.6	-	-	41.3	52.9	49.4	47.8	46.0
Machinery	82.3	-	-	16.1	19.8	22.0	22.8	22.1
Mining and quarrying	32.9	45.4	35.7	26.6	26.3	30.4	38.8	38.1
Food and tobacco	28.1	-	-	19.1	26.5	24.1	24.3	23.7
Paper, pulp and printing	20.1	28.3	30.0	29.1	29.4	24.0	24.2	23.7
Wood and wood products	45.5	-	-	27.6	32.2	30.4	29.9	29.4
Construction	-	-	-	-	-	-	-	-
Textile and leather	100.0	-	-	38.0	55.1	46.9	44.3	42.6
Non specified/other	3.7	17.9	18.3	40.6	42.1	37.8	41.5	40.5
Transport	0.8	0.7	0.8	0.7	0.6	0.6	0.7	0.7
Rail Transport	-	-	-	-	-	-	-	-
Pipeline Transport	100.0	6.7	6.2	6.2	9.8	10.2	9.5	8.6
Road	-	0.2	0.2	0.2	0.1	0.2	0.2	0.2
Transport Non Specified	100.0	-	-	-	-	-	-	-
Other sectors	22.3	37.6	36.7	37.7	40.4	41.6	40.0	38.4
Commercial & publ. serv.	28.0	42.9	39.9	40.1	47.3	40.2	37.2	37.3
Residential	19.1	35.5	36.2	38.9	39.3	40.0	39.9	39.5
Agriculture	36.3	22.9	19.7	17.1	14.5	13.3	13.6	12.8
Fishing	-	-	-	-	-	-	-	-
Sector non specified	-	-	-	-	-	98.7	98.5	97.6

Table 10b. Share of heat in total final consumption (%)

	1974	1990	2000	2005	2010	2012	2013	2014
Share of total final consumption	0.2	0.4	0.4	0.5	0.3	0.4	0.3	0.5
Industry	0.5	1.3	1.5	1.6	1.1	1.5	1.4	1.8
Iron and steel	-	-	-	0.0	0.0	0.0	0.0	0.0
Chem. and petrochemical	9.1	9.1	2.9	4.1	4.3	3.8	5.3	4.8
Non-ferrous metals	-	-	-	-	-	-	-	-
Non-metallic minerals	-	-	-	-	-	-	-	-
Transport equipment	-	-	-	-	-	-	-	-
Machinery	-	-	-	-	-	-	-	-
Mining and quarrying	-	-	-	-	-	-	-	-
Food and tobacco	-	-	-	0.1	0.1	0.1	0.1	0.1
Paper, pulp and printing	-	0.5	2.2	2.7	0.4	0.6	0.5	0.5
Wood and wood products	-	-	-	-	-	-	-	-
Construction	-	-	-	0.1	0.1	0.0	0.0	0.0
Textile and leather	-	-	-	-	-	-	-	-
Non specified/other	-	1.0	2.5	3.0	3.3	6.4	4.3	8.4
Transport	-	-	-	-	-	-	-	-
Other sectors	-	0.0	0.0	0.1	-	0.0	0.0	0.1
Commercial & publ. serv.	-	0.0	0.0	0.2	-	-	0.0	0.1
Residential	-	-	-	-	-	-	-	-
Agriculture	-	0.0	0.0	0.0 e	-	-	-	-
Fishing	-	-	-	-	-	-	-	-
Sector non specified	-	-	-	-	1.2	0.5	0.5	0.8

Source: IEA/OECD World Energy Balances.

Chile

Figure 1. Total final consumption by fuel**Figure 2. Electricity generation by fuel****Figure 3. Electricity consumption by sector****Figure 4. Electricity indicators****Figure 5. Total final electricity consumption by sector**

Chile**Table 1. Energy consumption, GDP and population**

	1974	1990	2000	2010	2013	2014	2015p	74-00	00-15
TPES (Mtoe)	8.44	14.01	25.17	30.85	38.69	36.10	36.04	4.3	2.4
GDP (billion 2005 USD)	41.85	76.23	144.79	217.54	252.46	257.20	262.51	4.9	4.0
TPES/GDP ¹	0.20	0.18	0.17	0.14	0.15	0.14	0.14	-0.6	-1.6
Population (millions)	10.24	13.18	15.40	17.09	17.64	17.84	17.99	1.6	1.0
TPES/population ²	0.82	1.06	1.63	1.80	2.19	2.02	2.00	2.7	1.4
TPES/GDP (2005 = 100)	129	117	111	91	98	90	88	-0.6	-1.6
Ele.TFC/GDP(2005=100) ³	70	76	95	94	97	97	..	1.2	..
Ele.TFC/population ⁴	768	1176	2388	3203	3696	3727	..	4.5	..
Elec. generated (TWh) ⁵	9.30	18.37	40.08	60.43	73.07	73.72	74.10	5.8	4.2

Source: IEA/OECD *World Energy Balances* and OECD *Main Economic Indicators*.**Table 2. Total primary energy supply (TPES) by source**

	1974	1990	2000	2010	2013	2014	2015p	74-00	00-15
TPES (Mtoe)	8.44	14.01	25.17	30.85	38.69	36.10	36.04	4.3	2.4
Coal	1.15	2.50	3.07	4.46	6.66	6.73	6.94	3.8	5.6
Oil	4.80	6.47	10.48	15.01	15.84	16.22	15.77	3.0	2.8
Natural gas	0.54	1.14	5.21	4.47	4.06	3.56	3.70	9.1	-2.2
Biofuels & waste	1.40	3.13	4.72	4.93	10.34	7.38	7.38	4.8	3.0
Nuclear	-	-	-	-	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-	-	-
Solar, wind, tide ⁶	-	-	-	0.03	0.07	0.18 e	0.22	-	-
Hydro	0.55	0.77	1.59	1.87	1.70	1.99	1.99	4.2	1.5
Net electricity imports ⁷	0.00	-	0.10	0.08	-	-	-	25.9	-
Heat	-	-	-	-	0.03	0.05	0.05	-	-

Source: IEA/OECD *World Energy Balances*.

1. In units of toe/2005 thousand US dollars.
2. In units of toe/per capita.
3. Ele.TFC = electricity total final consumption.
4. In units of kWh/per capita.
5. Electricity generated = gross production - amount of electricity produced in pumped storage plants.
6. Includes wave, ocean and other (e.g. fuel cells).
7. Net Imports = total imports - total exports

Chile**Table 3a. Summary electricity production and consumption¹ (TWh)**

	1974	1990	2000	2005	2010	2013	2014	2015e
Gross production	9.30	18.37	40.08	52.48	60.43	73.07	73.72	74.10
- Own use by power plant	0.20	0.62	1.20	1.19	2.10	3.32	1.34	-
Net production	9.10	17.76	38.87	51.30	58.33	69.74	72.38	-
- Used for heat pumps	-	-	-	-	-	-	-	-
- Used for electric boilers	-	-	-	-	-	-	-	-
- Used for pumped storage	-	-	-	-	-	-	-	-
+ Imports	0.00	-	1.19	2.15	0.96	-	-	-
- Exports	-	-	-	-	-	-	-	-
Electrical energy supplied	9.10	17.76	40.06	53.45	59.29	69.74	72.38	..
- Transmission & distr. losses	0.95	1.94	2.92	4.54	4.97	4.89	4.82	..
- Statistical difference	0.00	0.00	-	-	-0.97	-1.19	0.41	..
Total consumption	8.15	15.81	37.14	48.91	55.29	66.04	67.15	..
Energy industry consumption²	0.28	0.32	0.39	0.59	0.55	0.86	0.69	..
Coal Mines	0.13	0.12	0.01	0.01	-	-	-	..
Oil + Gas Extraction	-	-	-	-	-	-	-	..
Patent Fuel Plants	-	-	-	-	-	-	-	..
Coke Ovens	-	-	-	-	-	-	-	..
BKB plants	-	-	-	-	-	-	-	..
Gas Works	0.02	-	-	-	0.00	0.00	0.00	..
Blast Furnaces	-	-	-	-	-	0.01	-	..
Oil Refineries	0.14	0.20	0.38	0.59	0.49	0.77	0.66	..
Nuclear Industry	-	-	-	-	-	-	-	..
Coal Liquefaction Plants	-	-	-	-	-	-	-	..
LNG/Regasification Plants	-	-	-	-	0.06	0.08	0.02	..
Energy - Non Specified	-	-	-	-	-	-	-	..
Final consumption	7.87	15.49	36.75	48.32	54.74	65.18	66.46	..
Industry	5.21	10.15	25.68	32.57	35.85	42.63	42.26	..
Iron and steel	0.30	0.38	0.85	0.85	0.46	0.46	0.40	..
Chem. and petrochemical	0.18	0.26	0.55	0.64	0.47	0.17	0.05	..
Non-ferrous metals	2.03	-	-	-	-	-	-	..
Non-metallic minerals	0.19	0.27	0.40	0.49	0.55	0.57	0.45	..
Transport equipment	-	-	-	-	-	-	-	..
Machinery	-	-	-	-	-	-	-	..
Mining and quarrying	0.30	5.30	13.59	18.10	21.84	24.24	25.43	..
Food and tobacco	0.05	-	-	-	-	-	-	..
Paper, pulp and printing	0.65	1.21	3.19	4.35	4.38	7.22	4.86	..
Wood and wood products	-	-	-	-	-	-	-	..
Construction	-	-	-	-	-	-	-	..
Textile and leather	-	-	-	-	-	-	-	..
Non specified/other	1.51	2.73	7.10	8.15	8.16	9.97	11.08	..
Transport	0.20	0.21	0.22	0.25	0.43	0.51	1.04	..
Rail Transport	0.19	0.21	0.22	0.25	0.43	0.49	0.90	..
Pipeline Transport	-	-	-	-	-	0.03	0.14	..
Road	-	-	-	-	-	-	-	..
Transport Non Specified	0.01	-	-	-	-	-	-	..
Commercial & publ. serv.	1.20	4.33	6.18	8.28	9.36	10.87	11.37	..
Residential	1.06	0.70	4.51	7.08	9.02	10.91	11.40	..
Agriculture	0.20	-	-	-	-	-	-	..
Fishing	-	0.09	0.16	0.12	0.08	0.15	0.10	..
Sector non specified	-	-	-	-	-	0.11	0.29	..

1. Electricity generation from main activity producer power plants and autoproducers .

2. Energy industry consumption = electricity consumed by transformation industries for heating, traction and lighting purposes;

excludes own use by power plant and electricity used for heat pumps, electric boilers and pumped storage.

Chile**Table 3b. Summary heat production and consumption¹ (TJ)**

	1974	1990	2000	2005	2010	2013	2014	2015e
Gross production	-	-	-	-	-	1091 e	1936 e	1936
- Own use by power plant	-	-	-	-	-	-	-	-
Net production	-	-	-	-	-	1091 e	1936 e	-
- Used for electricity production	-	-	-	-	-	1091 e	1936 e	1936
+ Imports	-	-	-	-	-	-	-	-
- Exports	-	-	-	-	-	-	-	-
Heat energy supplied	-	-	-	-	-	-	-	..
- Transmission & distr. losses	-	-	-	-	-	-	-	..
- Statistical difference	-	-	-	-	-	-	-	..
Total consumption	-	-	-	-	-	-	-	..
Energy industry consumption²	-	-	-	-	-	-	-	..
Coal Mines	-	-	-	-	-	-	-	..
Oil + Gas Extraction	-	-	-	-	-	-	-	..
Patent Fuel Plants	-	-	-	-	-	-	-	..
Coke Ovens	-	-	-	-	-	-	-	..
BKB plants	-	-	-	-	-	-	-	..
Gas Works	-	-	-	-	-	-	-	..
Blast Furnaces	-	-	-	-	-	-	-	..
Oil Refineries	-	-	-	-	-	-	-	..
Nuclear Industry	-	-	-	-	-	-	-	..
Coal Liquefaction Plants	-	-	-	-	-	-	-	..
LNG/Regasification Plants	-	-	-	-	-	-	-	..
Energy - Non Specified	-	-	-	-	-	-	-	..
Final consumption	-	-	-	-	-	-	-	..
Industry	-	-	-	-	-	-	-	..
Iron and steel	-	-	-	-	-	-	-	..
Chem. and petrochemical	-	-	-	-	-	-	-	..
Non-ferrous metals	-	-	-	-	-	-	-	..
Non-metallic minerals	-	-	-	-	-	-	-	..
Transport equipment	-	-	-	-	-	-	-	..
Machinery	-	-	-	-	-	-	-	..
Mining and quarrying	-	-	-	-	-	-	-	..
Food and tobacco	-	-	-	-	-	-	-	..
Paper, pulp and printing	-	-	-	-	-	-	-	..
Wood and wood products	-	-	-	-	-	-	-	..
Construction	-	-	-	-	-	-	-	..
Textile and leather	-	-	-	-	-	-	-	..
Non specified/other	-	-	-	-	-	-	-	..
Transport	-	-	-	-	-	-	-	..
Commercial & publ. serv.	-	-	-	-	-	-	-	..
Residential	-	-	-	-	-	-	-	..
Agriculture	-	-	-	-	-	-	-	..
Fishing	-	-	-	-	-	-	-	..
Sector non specified	-	-	-	-	-	-	-	..

1. Heat generation from main activity producer power plants and autoproducers.

2. Energy industry consumption = electricity consumed by transformation industries for heating, traction and lighting purposes;

excludes own use by power plant and electricity used for heat pumps, electric boilers and pumped storage.

Chile

Table 4a. Gross electricity production by source (TWh)

	1974	1990	2000	2010	2013	2014	2015e	74-00	00-15
Total plants gross production¹	9.30	18.37	40.08	60.43	73.07	73.72	74.10 e	5.8	4.2
Nuclear	-	-	-	-	-	-	-	-	-
Hydro	6.36	8.93	18.52	21.72	19.74	23.10	23.10 e	4.2	1.5
- Of which pumped storage	-	-	-	-	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-	-	-
Solar	-	-	-	-	0.01	0.49	0.51 e	-	-
Wind	-	-	-	0.33	0.55	1.44 e	1.80 e	-	-
Combustible fuels	2.93	9.44	21.56	38.27	52.60	48.40	48.40 e	8.0	5.5
- Coal	..	6.53	8.47 e	16.87	30.24	26.01	26.01 e	-	7.8
- Oil	..	1.77	1.71	8.47	5.45 e	4.58	4.58 e	..	6.8
- Natural gas	..	0.19	10.45	10.69	11.16	12.48	12.48 e	..	1.2
- Biofuels & waste	..	0.96	0.94	2.25	5.76	5.33	5.33 e	..	12.3
Other ²	-	-	-	0.11	0.16	0.29	0.29 e	-	-
Of which autoproducers	2.88	4.63	2.13	3.67	6.42	6.31	..	-1.2	..
Nuclear	-	-	-	-	-	-	..	-	..
Hydro	1.16	0.57	0.33	0.34	0.18	0.16	..	-4.7	..
- Of which pumped storage	-	-	-	-	-	-	..	-	..
Geothermal	-	-	-	-	-	-	..	-	..
Solar	-	-	-	-	-	0.01	..	-	..
Wind	-	-	-	-	0.02	0.02 e	..	-	..
Combustible fuels	1.72	4.07	1.79	3.23	6.23	6.12	..	0.2	..
- Coal	..	2.22	0.02 e	-	-	-	..	-	-
- Oil	..	0.79	0.58	1.07	0.77 e	0.45
- Natural gas	..	0.10	0.33	0.10	0.14	0.47
- Biofuels & waste	..	0.96	0.86	2.06	5.32	5.21
Other ²	-	-	-	0.11	-	-	..	-	..

Table 4b. Gross heat production by source (PJ)

	1974	1990	2000	2010	2013	2014	2015e	74-00	00-15
Total plants heat generation³	-	-	-	-	1.09	1.94	1.94 e	-	-
Nuclear	-	-	-	-	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-	-	-
Combustible fuels	-	-	-	-	-	-	-	-	-
- Coal	..	-	-	-	-	-	-	..	-
- Oil	..	-	-	-	-	-	-	..	-
- Natural gas	..	-	-	-	-	-	-	..	-
- Biofuels & waste	..	-	-	-	-	-	-	..	-
Chemical processes	-	-	-	-	1.09 e	1.94 e	1.94 e	-	-
Heat pumps	-	-	-	-	-	-	-	-	-
Electric boilers	-	-	-	-	-	-	-	-	-
Other sources	-	-	-	-	-	-	-	-	-
Of which Autoproducers	-	-	-	-	1.09	1.94	..	-	..
Nuclear	-	-	-	-	-	-	..	-	..
Geothermal	-	-	-	-	-	-	..	-	..
Combustible fuels	-	-	-	-	-	-	..	-	..
- Coal	..	-	-	-	-	-
- Oil	..	-	-	-	-	-
- Natural gas	..	-	-	-	-	-
- Biofuels & waste	..	-	-	-	-	-
Chemical processes	-	-	-	-	1.09 e	1.94 e	..	-	..
Heat pumps	-	-	-	-	-	-	..	-	..
Electric boilers	-	-	-	-	-	-	..	-	..
Other sources	-	-	-	-	-	-	..	-	..

1. Electricity generated from main activity producer power plants and autoproducers.

2. Includes wave, ocean and other sources (e.g. fuel cells, electricity from chemical heat).

3. Total heat generation = gross production of heat from main activity producer + heat sold in autoproducers.

Chile**Table 5. Net electricity production by autoproducers (GWh)**

	1974	1990	2000	2010	2012	2013	2014	74-00	00-14
Total	2816	4333	1913	3244	5353	6043	5908	-1.5	8.4
Total energy	-	-	-	78	135	104	109	-	-
Coal mines	-	-	-	-	-	-	-	-	-
Oil and gas extraction	-	-	-	-	-	-	-	-	-
Patent fuel plants	-	-	-	-	-	-	-	-	-
Coke ovens	-	-	-	-	-	-	-	-	-
Gas works	-	-	-	-	-	-	-	-	-
BKB	-	-	-	78	135	104	109	-	-
Oil refineries	-	-	-	-	-	-	-	-	-
Energy non specified/other	-	-	-	-	-	-	-	-	-
Total industry	-	838	777	3143	5155	5760	5487	-	15.0
Iron and steel	-	-	-	-	-	-	-	-	-
Chemical and petrochemical	-	-	-	38	25	48	54	-	-
Non-ferrous metals	-	-	-	-	-	-	-	-	-
Non-metallic minerals	-	-	-	40	-	3	3	-	-
Transport equipment	-	-	-	-	-	-	-	-	-
Machinery	-	-	-	-	-	-	-	-	-
Mining and quarrying	-	-	-	755	603	485	500	-	-
Food and tobacco	-	-	-	-	1	-	-	-	-
Pulp and printing	-	838	777	1955	4379	5083	4930	-	14.1
Wood and wood products	-	-	-	1	-	-	-	-	-
Construction	-	-	-	-	-	-	-	-	-
Textile and leather	-	-	-	-	-	-	-	-	-
Non specified/other industries	-	-	-	354	147	141	-	-	-
Total transport	-	-	-	-	1	1	1	-	-
Rail	-	-	-	-	1	1	1	-	-
Pipeline	-	-	-	-	-	-	-	-	-
Transport non specified	-	-	-	-	-	-	-	-	-
Other	2816	3495	1136	23	62	178	311	-3.4	-8.8
Commerce and pub. services	-	-	-	11	28	43	54	-	-
Residential	-	-	-	-	-	-	-	-	-
Agriculture	-	-	-	-	-	-	-	-	-
Fishing	-	-	-	12	34	27	33	-	-
Sector non specified	2816	3495	1136	-	-	108	224	-3.4	-11.0

Notes: Data reported in this table prior to 1990 may refer to combustible fuels only.

Chile**Table 6a. Electricity production from combustible fuels in electricity plants¹**

	1990	2000	2005	2010	2012	2013	2014	90-00	00-14
Steam coal									
Fuel input (1000 t)	2481	3132	3201	7423	9992	11722	9976	2.4	8.6
Fuel input (TJ)	72712	91796	71783	161435	237440	277800	236421	2.4	7.0
Electricity production (GWh)	6525	8467 e	7212 e	16866	25337	30235	26006	2.6	8.3
Lignite									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
Coal manufactured gases²									
Fuel input (TJ)	46	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
Other coal products³									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
Oil and petroleum products									
Fuel input (1000 t)	482	507	1161	1695	1903	1285	1000	0.5	5.0
Fuel input (TJ)	21545	19493	36896 e	67729	77967	50259	54666	-1.0	7.6
Electricity production (GWh)	1768	1705	3392 e	7617	6144	5451 e	4584	-0.4	7.3
Natural gas²									
Fuel input (TJ)	2910	76891	126030	80612	112082	96694	81240	38.7	0.4
Electricity production (GWh)	188	10449	13600 e	10619	12849	11155	12480	49.4	1.3
Solid biofuels									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
Industrial waste									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
Municipal waste									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
Biogases and liquid biofuels									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
Total combustible fuels									
Electricity production (GWh)	8481	20621 e	24204 e	35102	44330	46841 e	43070	9.3	5.4

1. Excludes CHP plants.

2. Coal manufactured gases and natural gas are expressed on a gross calorific value basis.

3. Includes Coking coal as well as peat and peat products, patent fuels, BKB and shale oil

Chile**Table 6b. Electricity and heat produced for sale from combustible fuels
in combined heat and power plants (CHP plants)**

	1990	2000	2005	2010	2012	2013	2014	90-00	00-14
Steam coal									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
CHP Heat production (TJ)	-	-	-	-	-	-	-	-	-
Lignite									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
CHP Heat production (TJ)	-	-	-	-	-	-	-	-	-
Coal manufactured gases¹									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
CHP Heat production (TJ)	-	-	-	-	-	-	-	-	-
Other coal products²									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
CHP Heat production (TJ)	-	-	-	-	-	-	-	-	-
Petroleum products									
Fuel input (1000 t)	-	-	-	103	-	-	-	-	-
Fuel input (TJ)	-	-	-	4291	-	-	-	-	-
Electricity production (GWh)	-	-	-	853	-	-	-	-	-
CHP Heat production (TJ)	-	-	-	-	-	-	-	-	-
Natural gas¹									
Fuel input (TJ)	-	-	-	936	-	-	-	-	-
Electricity production (GWh)	-	-	-	71	-	-	-	-	-
CHP Heat production (TJ)	-	-	-	-	-	-	-	-	-
Solid Biofuels									
Fuel input (TJ)	3902	13853	22696	15373	154961	176837	141213	13.5	18.0
Electricity production (GWh)	963	941	1790 e	2247	4854	5721	5287	-0.2	13.1
CHP Heat production (TJ)	-
Industrial waste									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
CHP Heat production (TJ)	-	-	-	-	-	-	-	-	-
Municipal waste									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
CHP Heat production (TJ)	-	-	-	-	-	-	-	-	-
Biogases and liquid biofuels									
Fuel input (TJ)	-	-	-	-	-	340	2241	-	-
Electricity production (GWh)	-	-	-	-	-	40	40	-	-
CHP Heat production (TJ)	-	-	-	-	-	-	-
Total combustible fuels									
Electricity production (GWh)	963	941	1790 e	3171	4854	5761	5327	-0.2	13.2
CHP Heat production (TJ)	-

1. Coal manufactured gases and natural gas are expressed on a gross calorific value basis.

2. Includes Coking coal as well as peat and peat products, patent fuels, BKB and shale oil

Chile**Table 7. Net maximum electricity generating capacity on 31 December (GW)**

	1974	1990	2000	2005	2010	2012	2013	2014
Total capacity¹	-	5.10	9.89	12.59	16.23	18.15	18.60	23.40
Nuclear	-	-	-	-	-	-	-	-
Hydro	-	2.68	4.43	5.22	5.47	5.99	6.09	6.38
<i>of which: pumped storage</i>	-	-	-	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-	-
Solar PV	-	-	-	-	-	-	0.02	0.24
Solar thermal	-	-	-	-	-	-	0.09	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	-	-	-	0.16	0.20	0.30	0.73
Other (e.g. fuel cells)	-	-	-	-	0.03	-	-	-
Combustible fuels	-	2.42	5.46	7.36	10.58	11.96	12.11	16.05
<i>of which⁽²⁾:</i>								
<i>Single-fired:</i>								
Coal and Coal products	-	0.48	0.63	0.63	0.87	1.86	1.86	2.50
Liquid fuels	-	0.42	0.56	0.71	2.84	2.51	2.30	3.90
Natural gas	-	0.02	0.07	0.48	0.62	0.60	0.51	0.71
Biofuels & waste	-	-	0.02	0.04	0.53	0.83	1.27	0.65
<i>Multi-fired:</i>								
Solid / liquid	-	0.41	1.30	1.38	1.66	2.10	2.10	2.82
Solid / natural gas	-	-	-	-	-	-	-	-
Liquid / natural gas	-	-	2.37	3.19	4.06	4.06	4.03	5.42
Solid / liquid / gas	-	-	-	-	-	-	0.04	0.06
<u>Type of generation</u>								
Steam	-	-	-	-	-	4.92	5.09	6.66
Internal combustion	-	-	-	-	-	2.80	2.85	3.81
Gas turbine	-	-	-	-	-	4.24	4.17	5.58
Combined cycle	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-
<u>Peak load</u>	5.50	7.12	8.10	8.98	9.50	10.07
Of which Autoproducers	-	1.19	0.59	1.02	1.30	1.04	1.30	1.32
Nuclear	-	-	-	-	-	-	-	-
Hydro	-	0.10	0.08	0.08	0.08	0.04	0.08	0.03
<i>of which: pumped storage</i>	-	-	-	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-	-
Solar PV	-	-	-	-	-	-	0.01	0.01
Solar thermal	-	-	-	-	-	-	0.09	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	-	-	-	-	0.01	0.01	-
Other (e.g. fuel cells)	-	-	-	-	0.03	-	-	-
Combustible fuels	-	1.09	0.51	0.94	1.19	0.98	1.12	1.28

1. Sum of available capacity figures

2. Breakdown of electrical capacity by type of fuel are shown in the individual country chapters.

Chile**Table 8. Capacity factors (%)**

	1974	1990	2000	2005	2010	2012	2013	2014
Total plants¹	-	41.1	46.2	47.6	42.5	43.9	44.8	36.0
Nuclear	-	-	-	-	-	-	-	-
Hydro	-	38.1	47.7	57.9	45.4	38.4	37.0	41.3
<i>of which: pumped storage</i>	-	-	-	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-	-
Solar PV	-	-	-	-	-	-	6.1	23.1
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	-	-	40.0	23.3	23.1	21.0	22.5 e
Other (e.g. fuel cells)	-	-	-	-	51.1	-	-	-
Combustible fuels	-	44.5	45.1	40.3 e	41.3	47.0	49.6	34.4
Of which autoproducers	-	44.6	41.0	46.1	32.3	63.6	56.6	54.6
Nuclear	-	-	-	-	-	-	-	-
Hydro	-	67.2	46.8	80.2	45.7	48.7	24.4	64.8
<i>of which: pumped storage</i>	-	-	-	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-	-
Solar PV	-	-	-	-	-	-	-	10.3
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	-	-	-	-	25.1	36.2	- e
Other (e.g. fuel cells)	-	-	-	-	51.1	-	-	-
Combustible fuels	-	42.7	40.1	43.2 e	30.9	64.8	63.7	54.5

1. The capacity factor is defined as: the annual gross electricity generation (in GWh) divided by the net capacity (in GW) times 365 (days/year) times 24 (hours/day)

Chile**Table 10a. Share of electricity in total final consumption (%)**

	1974	1990	2000	2005	2010	2012	2013	2014
Share of total final consumption	10.3	12.0	15.5	19.0	19.7	21.4	21.0	23.0
Industry	17.9	25.6	33.2	38.5	35.4	40.0	36.8	35.0
Iron and steel	9.1	23.8	35.2	29.9	31.0	97.9	38.3	31.5
Chem. and petrochemical	59.4	100.0	81.0	80.9	25.5	12.5	9.7	51.8
Non-ferrous metals	66.0	-	-	-	-	-	-	-
Non-metallic minerals	8.4	14.7	15.1	15.5	15.9	15.9	15.4	11.9
Transport equipment	-	-	-	-	-	-	-	-
Machinery	-	-	-	-	-	-	-	-
Mining and quarrying	6.1	33.6	47.0	53.0	41.8	53.8	53.0	51.4
Food and tobacco	4.2	-	-	-	-	-	-	-
Paper, pulp and printing	29.8	15.5	21.5	28.4	28.6	26.1	27.4	18.1
Wood and wood products	-	-	-	-	-	-	-	-
Construction	-	-	-	-	-	-	-	-
Textile and leather	-	-	-	-	-	-	-	-
Non specified/other	12.6	22.1	25.6	28.7	30.4	34.4	26.9	28.7
Transport	1.0	0.6	0.3	0.4	0.5	0.6	0.5	1.1
Rail Transport	9.8	49.5	50.4	55.2	45.5	45.9	48.4	57.0
Pipeline Transport	-	-	-	-	-	100.0	100.0	100.0
Road	-	-	-	-	-	-	-	-
Transport Non Specified	100.0	-	-	-	-	-	-	-
Other sectors	9.1	11.8	16.4	22.3	22.7	21.9	24.0	33.7
Commercial & publ. serv.	77.2	12.7	62.3	65.6	56.7	55.8	61.2	61.4
Residential	5.0	11.9	10.9	14.5	15.1	14.6	15.3	24.0
Agriculture	100.0	-	-	-	-	-	-	-
Fishing	-	6.2	7.1	7.9	2.3	3.9	5.6	4.2
Sector non specified	-	-	-	-	-	-	100.0	100.0

Table 10b. Share of heat in total final consumption (%)

	1974	1990	2000	2005	2010	2012	2013	2014
Share of total final consumption	-	-	-	-	-	-	-	-
Industry	-	-	-	-	-	-	-	-
Iron and steel	-	-	-	-	-	-	-	-
Chem. and petrochemical	-	-	-	-	-	-	-	-
Non-ferrous metals	-	-	-	-	-	-	-	-
Non-metallic minerals	-	-	-	-	-	-	-	-
Transport equipment	-	-	-	-	-	-	-	-
Machinery	-	-	-	-	-	-	-	-
Mining and quarrying	-	-	-	-	-	-	-	-
Food and tobacco	-	-	-	-	-	-	-	-
Paper, pulp and printing	-	-	-	-	-	-	-	-
Wood and wood products	-	-	-	-	-	-	-	-
Construction	-	-	-	-	-	-	-	-
Textile and leather	-	-	-	-	-	-	-	-
Non specified/other	-	-	-	-	-	-	-	-
Transport	-	-	-	-	-	-	-	-
Other sectors	-	-	-	-	-	-	-	-
Commercial & publ. serv.	-	-	-	-	-	-	-	-
Residential	-	-	-	-	-	-	-	-
Agriculture	-	-	-	-	-	-	-	-
Fishing	-	-	-	-	-	-	-	-
Sector non specified	-	-	-	-	-	-	-	-

Source: IEA/OECD World Energy Balances.

Chile**Table 10a. Share of electricity in total final consumption (%)**

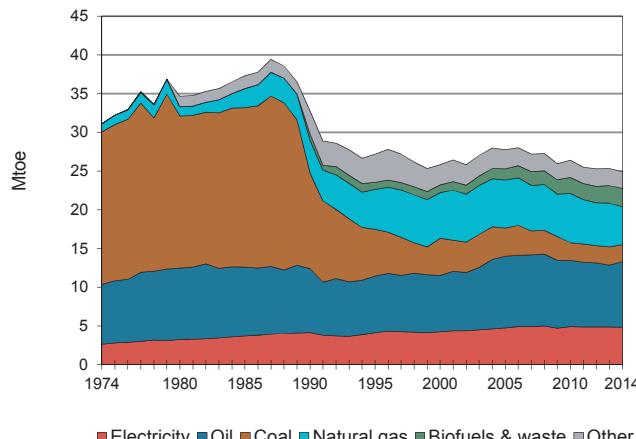
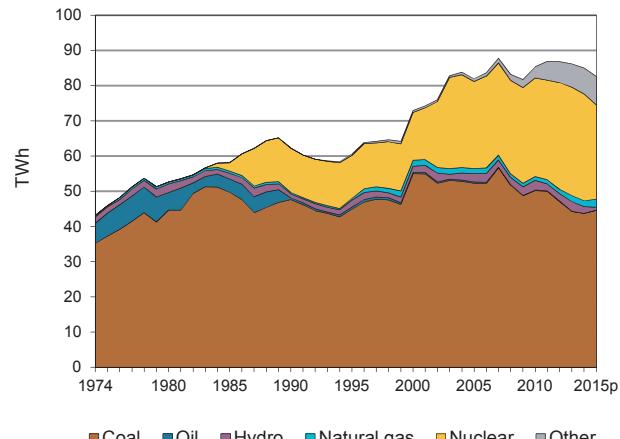
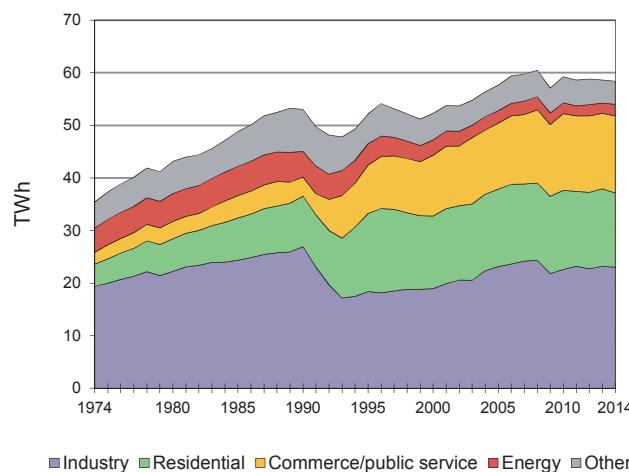
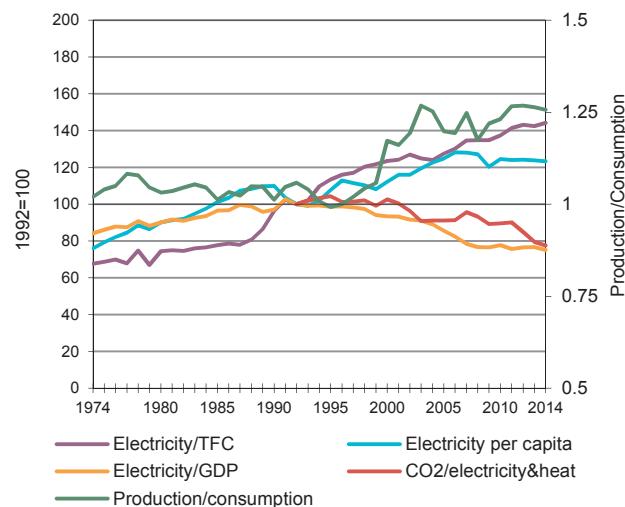
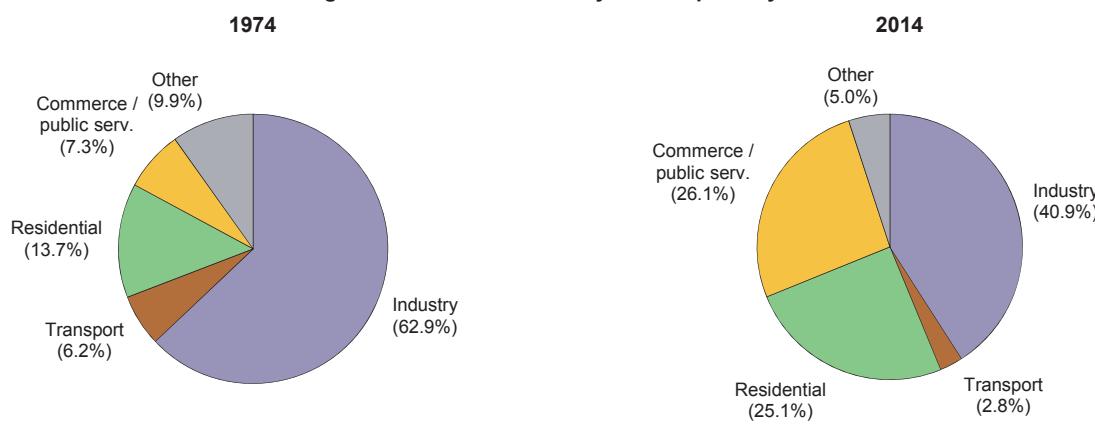
	1974	1990	2000	2005	2010	2012	2013	2014
Share of total final consumption	10.3	12.0	15.5	19.0	19.7	21.4	21.0	23.0
Industry	17.9	25.6	33.2	38.5	35.4	40.0	36.8	35.0
Iron and steel	9.1	23.8	35.2	29.9	31.0	97.9	38.3	31.5
Chem. and petrochemical	59.4	100.0	81.0	80.9	25.5	12.5	9.7	51.8
Non-ferrous metals	66.0	-	-	-	-	-	-	-
Non-metallic minerals	8.4	14.7	15.1	15.5	15.9	15.9	15.4	11.9
Transport equipment	-	-	-	-	-	-	-	-
Machinery	-	-	-	-	-	-	-	-
Mining and quarrying	6.1	33.6	47.0	53.0	41.8	53.8	53.0	51.4
Food and tobacco	4.2	-	-	-	-	-	-	-
Paper, pulp and printing	29.8	15.5	21.5	28.4	28.6	26.1	27.4	18.1
Wood and wood products	-	-	-	-	-	-	-	-
Construction	-	-	-	-	-	-	-	-
Textile and leather	-	-	-	-	-	-	-	-
Non specified/other	12.6	22.1	25.6	28.7	30.4	34.4	26.9	28.7
Transport	1.0	0.6	0.3	0.4	0.5	0.6	0.5	1.1
Rail Transport	9.8	49.5	50.4	55.2	45.5	45.9	48.4	57.0
Pipeline Transport	-	-	-	-	-	100.0	100.0	100.0
Road	-	-	-	-	-	-	-	-
Transport Non Specified	100.0	-	-	-	-	-	-	-
Other sectors	9.1	11.8	16.4	22.3	22.7	21.9	24.0	33.7
Commercial & publ. serv.	77.2	12.7	62.3	65.6	56.7	55.8	61.2	61.4
Residential	5.0	11.9	10.9	14.5	15.1	14.6	15.3	24.0
Agriculture	100.0	-	-	-	-	-	-	-
Fishing	-	6.2	7.1	7.9	2.3	3.9	5.6	4.2
Sector non specified	-	-	-	-	-	-	100.0	100.0

Table 10b. Share of heat in total final consumption (%)

	1974	1990	2000	2005	2010	2012	2013	2014
Share of total final consumption	-	-	-	-	-	-	-	-
Industry	-	-	-	-	-	-	-	-
Iron and steel	-	-	-	-	-	-	-	-
Chem. and petrochemical	-	-	-	-	-	-	-	-
Non-ferrous metals	-	-	-	-	-	-	-	-
Non-metallic minerals	-	-	-	-	-	-	-	-
Transport equipment	-	-	-	-	-	-	-	-
Machinery	-	-	-	-	-	-	-	-
Mining and quarrying	-	-	-	-	-	-	-	-
Food and tobacco	-	-	-	-	-	-	-	-
Paper, pulp and printing	-	-	-	-	-	-	-	-
Wood and wood products	-	-	-	-	-	-	-	-
Construction	-	-	-	-	-	-	-	-
Textile and leather	-	-	-	-	-	-	-	-
Non specified/other	-	-	-	-	-	-	-	-
Transport	-	-	-	-	-	-	-	-
Other sectors	-	-	-	-	-	-	-	-
Commercial & publ. serv.	-	-	-	-	-	-	-	-
Residential	-	-	-	-	-	-	-	-
Agriculture	-	-	-	-	-	-	-	-
Fishing	-	-	-	-	-	-	-	-
Sector non specified	-	-	-	-	-	-	-	-

Source: IEA/OECD *World Energy Balances*.

Czech Republic

Figure 1. Total final consumption by fuel**Figure 2. Electricity generation by fuel****Figure 3. Electricity consumption by sector****Figure 4. Electricity indicators****Figure 5. Total final electricity consumption by sector**

Czech Republic

Table 1. Energy consumption, GDP and population

	1974	1990	2000	2010	2013	2014	2015p	74-00	00-15
TPES (Mtoe)	41.90	49.57	40.90	44.39	41.95	41.21	40.71	-0.1	-0.0
GDP (billion 2005 USD)	110.70	144.13	151.44	207.02	208.08	212.20	221.11	1.2	2.6
TPES/GDP ¹	0.38	0.34	0.27	0.21	0.20	0.19	0.18	-1.3	-2.5
Population (millions)	9.99	10.36	10.27	10.52	10.51	10.53	10.56	0.1	0.2
TPES/population ²	4.19	4.78	3.98	4.22	3.99	3.92	3.86	-0.2	-0.2
TPES/GDP (2005 = 100)	155	140	110	88	82	79	75	-1.3	-2.5
Ele.TFC/GDP(2005=100) ³	92	111	108	92	90	88	..	0.6	..
Ele.TFC/population ⁴	3087	4651	4809	5441	5395	5342	..	1.7	..
Elec. generated (TWh) ⁵	43.14	62.27	72.91	85.32	86.16	84.97	82.61	2.0	0.8

Source: IEA/OECD *World Energy Balances* and OECD *Main Economic Indicators*.

Table 2. Total primary energy supply (TPES) by source

	1974	1990	2000	2010	2013	2014	2015p	74-00	00-15
TPES (Mtoe)	41.90	49.57	40.90	44.39	41.95	41.21	40.71	-0.1	-0.0
Coal	31.49	31.44	21.57	18.31	16.36	15.88	15.96	-1.4	-2.0
Oil	9.07	8.73	7.72	8.96	8.24	8.72	8.48	-0.6	0.6
Natural gas	1.24	5.25	7.50	8.07	6.94	6.18	6.48	7.2	-1.0
Biofuels & waste	-	0.83	1.28	2.65	3.32	3.48	3.50	-	6.9
Nuclear	-	3.28	3.54	7.32	8.04	7.92	7.02	-	4.7
Geothermal	-	-	-	-	-	-	-	-	-
Solar, wind, tide ⁶	-	-	0.00	0.09	0.23	0.24	0.26	-	70.7
Hydro	0.16	0.10	0.15	0.24	0.24	0.16	0.07	-0.1	-5.2
Net electricity imports ⁷	-0.07	-0.06	-0.86	-1.29	-1.45	-1.40	-1.08	10.3	1.5
Heat	-	-	-0.00	0.03	0.03	0.02	0.02	-	-

Source: IEA/OECD *World Energy Balances*.

1. In units of toe/2005 thousand US dollars.

2. In units of toe/per capita.

3. Ele.TFC = electricity total final consumption.

4. In units of kWh/per capita.

5. Electricity generated = gross production - amount of electricity produced in pumped storage plants.

6. Includes wave, ocean and other (e.g. fuel cells).

7. Net Imports = total imports - total exports

Czech Republic**Table 3a. Summary electricity production and consumption¹ (TWh)**

	1974	1990	2000	2005	2010	2013	2014	2015e
Gross production	43.14	62.56	73.47	82.58	85.91	87.07	86.02	83.89
- Own use by power plant	3.00	4.43	5.45	6.39	6.45	6.21	6.12	-
Net production	40.14	58.13	68.01	76.19	79.46	80.86	79.91	-
- Used for heat pumps	-	0.01	0.01	0.02	0.02
- Used for electric boilers	-	-	-	-	-	-	-	-
- Used for pumped storage	0.13	0.40	0.75	0.87	0.80	1.22	1.36	1.66
+ Imports	3.64	8.18	8.73	12.35	6.64	10.57	11.84	16.15
- Exports	4.42	8.87	18.74	24.99	21.59	27.46	28.14	28.66
Electrical energy supplied	39.23	57.03	57.25	62.69	63.71	62.75	62.23	..
- Transmission & distr. losses	3.80	4.00	4.96	5.03	4.47	4.10	3.85	..
- Statistical difference	-	-	-	-	-	-	-	..
Total consumption	35.43	53.04	52.29	57.66	59.25	58.65	58.38	..
Energy industry consumption²	4.61	4.86	2.91	2.37	2.04	1.96	2.18	..
Coal Mines	-	..	2.08	1.54	1.30	1.29	1.48	..
Oil + Gas Extraction	-	0.01	0.01	0.01	0.00	0.01	0.02	..
Patent Fuel Plants	-	-	-	-	-	-	-	..
Coke Ovens	-	..	0.16	0.16	0.15	0.12	0.12	..
BKB plants	-	..	0.01	0.02	0.01	-	-	..
Gas Works	-	..	0.24	0.17	0.05	0.04	0.04	..
Blast Furnaces	-	-	-	0.02	0.06	0.06	0.06	..
Oil Refineries	-	..	0.25	0.31	0.34	0.30	0.32	..
Nuclear Industry	-	..	0.16	0.15	0.15	0.14	0.14	..
Coal Liquefaction Plants	-	-	-	-	-	-	-	..
LNG/Regasification Plants	-	-	-	-	-	-	-	..
Energy - Non Specified	4.61	4.85	-	-	-	-	-	..
Final consumption	30.83	48.18	49.38	55.29	57.20	56.69	56.20	..
Industry	19.40	26.92	18.94	23.15	22.59	23.20	23.01	..
Iron and steel	-	5.13	3.00	3.44	3.07	2.55	2.45	..
Chem. and petrochemical	-	3.52	3.20	3.88	3.58	3.49	3.68	..
Non-ferrous metals	-	0.65	0.28	0.33	0.19	0.30	0.31	..
Non-metallic minerals	-	2.56	2.04	2.54	2.07	2.10	2.19	..
Transport equipment	-	1.22	1.02	1.58	2.40	2.69	2.43	..
Machinery	-	4.12	2.33	3.40	3.55	4.01	4.14	..
Mining and quarrying	-	0.22	0.17	0.20	0.24	0.40	0.35	..
Food and tobacco	-	1.43	1.38	1.59	1.70	1.60	1.48	..
Paper, pulp and printing	-	1.55	1.60	1.89	1.61	1.57	1.72	..
Wood and wood products	-	0.50	0.34	0.54	0.49	0.52	0.48	..
Construction	-	0.58	0.32	0.40	0.48	0.57	0.37	..
Textile and leather	-	1.77	1.12	1.16	0.70	0.73	0.71	..
Non specified/other	19.40	3.67	2.16	2.21	2.52	2.68	2.69	..
Transport	1.92	3.17	2.34	2.18	1.55	1.62	1.58	..
Rail Transport	-	-	1.20	1.15	1.42	1.49	1.46	..
Pipeline Transport	-	-	0.03	0.05	0.06	0.05	0.05	..
Road	-	-	0.08	0.07	0.07	0.07	0.07	..
Transport Non Specified	1.92	3.17	1.03	0.92	-	-	-	..
Commercial & publ. serv.	4.23	9.62	13.82	14.72	15.03	14.72	14.13	..
Residential	2.24	3.64	11.56	12.53	14.62	14.35	14.68	..
Agriculture	1.61	2.91	1.17	1.02	1.05	0.78	0.72	..
Fishing	-	-	-	0.01	0.01	0.01	0.01	..
Sector non specified	1.43	1.91	1.55	1.69	2.35	2.02	2.09	..

1. Electricity generation from main activity producer power plants and autoproducers .

2. Energy industry consumption = electricity consumed by transformation industries for heating, traction and lighting purposes;

excludes own use by power plant and electricity used for heat pumps, electric boilers and pumped storage.

Czech Republic**Table 3b. Summary heat production and consumption¹ (TJ)**

	1974	1990	2000	2005	2010	2013	2014	2015e
Gross production	-	154981	139216	139236	130340	125401	122225	122213
- Own use by power plant	-	-	-	-	-	-	-	-
Net production	-	154981	139216	139236	130340	125401	122225	-
- Used for electricity production	-	-	-	225	55	112	78	77
+ Imports	-	-	-	-	-	17	15	15
- Exports	-	-	139	129	108	85	74	80
Heat energy supplied	-	154981	139077	138882	130177	125221	122088	..
- Transmission & distr. losses	-	11856	11558	20991	19367	18814	17221	..
- Statistical difference	-	-	-	-	-	-	-	..
Total consumption	-	143125	127519	117891	110810	106407	104867	..
Energy industry consumption²	-	19223	17671	14149	16639	14982	14251	..
Coal Mines	-	-	4680	4096	4082	4066	3713	..
Oil + Gas Extraction	-	-	-	-	-	-	107	..
Patent Fuel Plants	-	-	-	-	-	-	-	..
Coke Ovens	-	-	2536	2299	2253	1744	1702	..
BKB plants	-	-	661	734	407	-	-	..
Gas Works	-	-	2443	2833	3580	2809	3437	..
Blast Furnaces	-	-	-	-	-	-	-	..
Oil Refineries	-	-	6722	3594	6302	6359	5288	..
Nuclear Industry	-	-	629	591	15	4	4	..
Coal Liquefaction Plants	-	-	-	-	-	-	-	..
LNG/Regasification Plants	-	-	-	-	-	-	-	..
Energy - Non Specified	-	19223	-	2	-	-	-	..
Final consumption	-	123902	109848	103742	94171	91425	90616	..
Industry	-	45097	32682	28952	25184	23536	26205	..
Iron and steel	-	-	4825	3070	3107	3034	3384	..
Chem. and petrochemical	-	-	9657	8755	9217	9264	10117	..
Non-ferrous metals	-	-	123	114	72	44	72	..
Non-metallic minerals	-	-	1097	1081	764	642	756	..
Transport equipment	-	-	1424	2532	2179	1915	1965	..
Machinery	-	-	5393	4462	4124	3151	3938	..
Mining and quarrying	-	-	260	33	45	25	25	..
Food and tobacco	-	-	5277	4155	2928	2950	3580	..
Paper, pulp and printing	-	-	1674	1715	714	800	862	..
Wood and wood products	-	-	907	422	342	283	272	..
Construction	-	-	715	1120	886	742	735	..
Textile and leather	-	-	1230	1388	686	606	420	..
Non specified/other	-	45097	100	105	120	80	79	..
Transport	-	-	-	-	-	-	-	..
Commercial & publ. serv.	-	19695	25686	25335	18302	18198	18128	..
Residential	-	52277	50801	48891	50165	49174	45797	..
Agriculture	-	6833	679	561	519	516	485	..
Fishing	-	-	-	1	-	-	-	..
Sector non specified	-	-	-	2	1	1	1	..

1. Heat generation from main activity producer power plants and autoproducers.

2. Energy industry consumption = electricity consumed by transformation industries for heating, traction and lighting purposes;

excludes own use by power plant and electricity used for heat pumps, electric boilers and pumped storage.

Czech Republic

Table 4a. Gross electricity production by source (TWh)

	1974	1990	2000	2010	2013	2014	2015e	74-00	00-15
Total plants gross production¹	43.14	62.56	73.47	85.91	87.07	86.02	83.89	2.1	0.9
Nuclear	-	12.59	13.59	28.00	30.75	30.33	26.84	-	4.6
Hydro	1.82	1.45	2.31	3.38	3.64	2.96	2.07	0.9	-0.7
- Of which pumped storage	-	0.29	0.56	0.59	0.91	1.05	1.28	-	5.7
Geothermal	-	-	-	-	-	-	-	-	-
Solar	-	-	-	0.62	2.03	2.12	2.26	-	-
Wind	-	-	0.00	0.34	0.48	0.48	0.57	-	52.7
Combustible fuels	41.32	48.53	57.56	53.58	50.17	50.14	52.14	1.3	-0.7
- Coal	..	47.60	54.97	50.16	44.27	43.72	44.58	..	-1.4
- Oil	..	0.54	0.37	0.16	0.05	0.04	0.07	..	-10.9
- Natural gas	..	0.39	1.69	1.07	1.73	1.65	2.26	..	2.0
- Biofuels & waste	..	-	0.53	2.19	4.12	4.73	5.24	..	16.5
Other ²	-	-	-	-	-	-	-	-	-
Of which autoproducers	0.05	7.33	10.48	9.31	8.22	8.48	..	22.8	..
Nuclear	-	-	-	-	-	-	..	-	..
Hydro	0.05	0.05	0.39	0.69	0.62	0.56	..	8.3	..
- Of which pumped storage	-	-	-	-	-	-	..	-	..
Geothermal	-	-	-	-	-	-	..	-	..
Solar	-	-	-	-	-	-	..	-	..
Wind	-	-	-	-	-	-	..	-	..
Combustible fuels	-	7.28	10.08	8.63	7.60	7.91	..	-	..
- Coal	..	6.99	8.60	7.02	4.20	4.06
- Oil	..	0.13	0.24	0.05	0.01	0.00
- Natural gas	..	0.16	0.86	0.33	0.29	0.25
- Biofuels & waste	..	-	0.37	1.23	3.10	3.60
Other ²	-	-	-	-	-	-	..	-	..

Table 4b. Gross heat production by source (PJ)

	1974	1990	2000	2010	2013	2014	2015e	74-00	00-15
Total plants heat generation³	-	154.98	139.22 e	130.34	125.40	122.23	122.21	-	-0.9
Nuclear	-	-	-	1.07	1.04	0.87	0.90	-	-
Geothermal	-	-	-	-	-	-	-	-	-
Combustible fuels	-	154.98	139.22 e	127.71	122.52	119.95	120.07	-	-1.0
- Coal	..	120.81	90.97	89.94	82.81	79.98	79.75	..	-0.9
- Oil	..	11.85	7.22	1.81	0.59	0.34	0.79	..	-13.7
- Natural gas	..	22.03	34.87	31.23	30.86	30.33	30.19	..	-1.0
- Biofuels & waste	..	0.30	6.16	4.73	8.25	9.31	9.35	..	2.8
Chemical processes	-	-	-	1.13	1.41	0.88	0.75	-	-
Heat pumps	-	-	-	0.11	0.09	0.18	0.18	-	-
Electric boilers	-	-	-	0.00	0.01	0.01	0.02	-	-
Other sources	-	-	-	0.32	0.35	0.34	0.30	-	-
Of which Autoproducers	-	44.85	25.80 e	14.34	19.01	17.31	..	-	-
Nuclear	-	-	-	-	-	-	..	-	..
Geothermal	-	-	-	-	-	-	..	-	..
Combustible fuels	-	44.85	25.80 e	13.21	17.61	16.34	..	-	-
- Coal	..	34.51	11.76	7.32	7.80	6.78
- Oil	..	3.41	2.81	0.50	0.19	0.02
- Natural gas	..	6.64	6.42	3.66	6.47	5.78
- Biofuels & waste	..	0.30	4.81	1.74	3.15	3.76
Chemical processes	-	-	-	1.13	1.41	0.88	..	-	..
Heat pumps	-	-	-	0.00	0.00	0.09	..	-	..
Electric boilers	-	-	-	-	-	0.00	..	-	..
Other sources	-	-	-	-	-	-	..	-	..

1. Electricity generated from main activity producer power plants and autoproducers.

2. Includes wave, ocean and other sources (e.g. fuel cells, electricity from chemical heat).

3. Total heat generation = gross production of heat from main activity producer + heat sold in autoproducers.

Czech Republic**Table 5. Net electricity production by autoproducers (GWh)**

	1974	1990	2000	2010	2012	2013	2014	74-00	00-14
Total	-	6875	9937	8468	7402	7408	7876	-	-1.6
Total energy	-	6875	2980	3794	3513	3682	3385	-	0.9
Coal mines	-	-	2980	3586	3508	3680	3385	-	0.9
Oil and gas extraction	-	-	-	193	-	-	-	-	-
Patent fuel plants	-	-	-	-	-	-	-	-	-
Coke ovens	-	-	-	-	-	-	-	-	-
Gas works	-	-	-	-	-	-	-	-	-
BKB	-	-	-	15	5	2	-	-	-
Oil refineries	-	-	-	-	-	-	-	-	-
Energy non specified/other	-	-	-	-	-	-	-	-	-
Total industry	-	-	4021	3693	2948	2641	2899	-	-2.3
Iron and steel	-	-	1393	322	29	31	21	-	-25.9
Chemical and petrochemical	-	-	1595	1821	1167	1003	957	-	-3.6
Non-ferrous metals	-	-	-	-	-	-	-	-	-
Non-metallic minerals	-	-	7	-	-	-	-	-	-
Transport equipment	-	-	-	6	2	2	1	-	-
Machinery	-	-	40	72	60	54	51	-	1.8
Mining and quarrying	-	-	-	11	12	13	12	-	-
Food and tobacco	-	-	64	67	86	84	94	-	2.8
Pulp and printing	-	-	624	768	831	820	988	-	3.3
Wood and wood products	-	-	1	3	15	20	63	-	34.4
Construction	-	-	-	13	10	11	20	-	-
Textile and leather	-	-	31	5	4	4	4	-	-13.6
Non specified/other industries	-	-	266	605	732	599	688	-	7.0
Total transport	-	-	-	-	-	-	-	-	-
Rail	-	-	-	-	-	-	-	-	-
Pipeline	-	-	-	-	-	-	-	-	-
Transport non specified	-	-	-	-	-	-	-	-	-
Other	-	-	2936	981	941	1085	1592	-	-4.3
Commerce and pub. services	-	-	-	35	41	257	702	-	-
Residential	-	-	-	-	-	-	-	-	-
Agriculture	-	-	-	49	40	59	163	-	-
Fishing	-	-	-	-	1	-	-	-	-
Sector non specified	-	-	2936	897	859	769	727	-	-9.5

Notes: Data reported in this table prior to 1990 may refer to combustible fuels only.

Czech Republic**Table 6a. Electricity production from combustible fuels in electricity plants¹**

	1990	2000	2005	2010	2012	2013	2014	90-00	00-14
Steam coal									
Fuel input (1000 t)	1964	1378	1089	1237	943	960	935	-3.5	-2.7
Fuel input (TJ)	41243	28467	25592	26154	22550	21984	21120	-3.6	-2.1
Electricity production (GWh)	3991	2814	2520	2358	2302	2356	2113	-3.4	-2.0
Lignite									
Fuel input (1000 t)	29675	29340	26586	26779	25099	22239	21521	-0.1	-2.2
Fuel input (TJ)	326932	349630	318049	316018	294621	265242	245355	0.7	-2.5
Electricity production (GWh)	33021	34464	31509	31400	29135	27037	24646	0.4	-2.4
Coal manufactured gases²									
Fuel input (TJ)	148	-	-	107	18	21	-	-	-
Electricity production (GWh)	15	-	-	10	2	2	-	-	-
Other coal products³									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
Oil and petroleum products									
Fuel input (1000 t)	61	57	43	7	6	7	7	-0.7	-13.9
Fuel input (TJ)	2442	2293	1650	301	254	284	239	-0.6	-14.9
Electricity production (GWh)	210	180	168	27	24	26	21	-1.5	-14.2
Natural gas²									
Fuel input (TJ)	312	2106	1873	649	432	252	295	21.0	-13.1
Electricity production (GWh)	41	217	173	63	46	26	29	18.1	-13.4
Solid biofuels									
Fuel input (TJ)	-	1513	2018	6588	4448	191	846	-	-4.1
Electricity production (GWh)	-	135	206	594	468	15	54	-	-6.3
Industrial waste									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
Municipal waste									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
Biogases and liquid biofuels									
Fuel input (TJ)	-	238	601	690	700	585	628	-	7.2
Electricity production (GWh)	-	27	53	53	56	55	56	-	5.3
Total combustible fuels									
Electricity production (GWh)	37278	37837	34629	34505	32033	29517	26919	0.1	-2.4

1. Excludes CHP plants.

2. Coal manufactured gases and natural gas are expressed on a gross calorific value basis.

3. Includes Coking coal as well as peat and peat products, patent fuels, BKB and shale oil

Czech Republic

**Table 6b. Electricity and heat produced for sale from combustible fuels
in combined heat and power plants (CHP plants)**

	1990	2000	2005	2010	2012	2013	2014	90-00	00-14
Steam coal									
Fuel input (1000 t)	2562	2366	2121	2591	2267	2379	2285	-0.8	-0.2
Fuel input (TJ)	53804	57946	49895	61092	52254	54570	49468	0.7	-1.1
Electricity production (GWh)	1743	2701	2978	3704	2591	2905	3073	4.5	0.9
CHP Heat production (TJ)	31707	24030	24395	28559	22593	21172	20461	-2.7	-1.1
Lignite									
Fuel input (1000 t)	12972	11223	13989	11375	12131	12157	11967	-1.4	0.5
Fuel input (TJ)	145140	151140	173595	166654	174637	156420	160126	0.4	0.4
Electricity production (GWh)	8265	12773	12451	9645	10418	9403	11092	4.4	-1.0
CHP Heat production (TJ)	67623	54463	54169	50309	52911	51048	51177	-2.1	-0.4
Coal manufactured gases¹									
Fuel input (TJ)	11443	24367	27926	32739	30847	31841	33452	7.9	2.3
Electricity production (GWh)	565	2216	2745	3038	2644	2563	2799	14.6	1.7
CHP Heat production (TJ)	5391	3577	4511	6820	7215	7906	6027	-4.0	3.8
Other coal products²									
Fuel input (1000 t)	-	-	66	8	3	4	1	-	-
Fuel input (TJ)	-	-	2524	271	120	162	44	-	-
Electricity production (GWh)	-	-	64	6	3	4	-	-	-
CHP Heat production (TJ)	-	-	1968	194	90	102	37	-	-
Petroleum products									
Fuel input (1000 t)	278	155	116	75	44	14	10	-5.7	-17.8
Fuel input (TJ)	10978	6383	4565	3027	1825	575	381	-5.3	-18.2
Electricity production (GWh)	330	192	158	132	67	21	17	-5.3	-15.9
CHP Heat production (TJ)	6856	3705	2931	1132	810	282	210	-6.0	-18.5
Natural gas¹									
Fuel input (TJ)	9200	30168	29529	18180	21273	21258	23560	12.6	-1.8
Electricity production (GWh)	344	1474	1297	1010	1158	1701	1618	15.7	0.7
CHP Heat production (TJ)	6145	13468	14542	8236	9439	8413	10049	8.2	-2.1
Solid Biofuels									
Fuel input (TJ)	-	6111	4148	8869	14702	19419	21759	-	9.5
Electricity production (GWh)	-	247	354	898	1349	1668	1938	-	15.9
CHP Heat production (TJ)	-	2934	1757	1555	2008	3992	4917	-	3.8
Industrial waste									
Fuel input (TJ)	-	-	39	41	111	145	178	-	-
Electricity production (GWh)	-	-	-	2	5	7	8	-	-
CHP Heat production (TJ)	-	-	29	5	42	59	90	-	-
Municipal waste									
Fuel input (TJ)	-	1616	1703	2906	4410	4201	4251	-	7.2
Electricity production (GWh)	-	14	18	59	144	139	147	-	18.3
CHP Heat production (TJ)	-	1254	1276	1763	2506	2478	2617	-	5.4
Biogases and liquid biofuels									
Fuel input (TJ)	-	1094	853	4424	10852	17699	19065	-	22.6
Electricity production (GWh)	-	108	107	582	1412	2239	2527	-	25.3
CHP Heat production (TJ)	-	310	91	256	365	487	565	-	4.4
Total combustible fuels									
Electricity production (GWh)	11247	19725	20172	19076	19791	20650	23219	5.8	1.2
CHP Heat production (TJ)	117722	103741	105669	98829	97979	95939	96150	-1.3	-0.5

1. Coal manufactured gases and natural gas are expressed on a gross calorific value basis.

2. Includes Coking coal as well as peat and peat products, patent fuels, BKB and shale oil

Czech Republic**Table 6c. Heat produced for sale from combustible fuels in heat plants¹**

	1990	2000	2005	2010	2012	2013	2014	90-00	00-14
Steam coal									
Fuel input (1000 t)	413	158	63	54	30	10	10	-9.2	-17.9
Fuel input (TJ)	8750	3672	1428	989	729	226	239	-8.3	-17.7
Heat production (TJ)	5843	2246	835	842	552	178	194	-9.1	-16.0
Lignite									
Fuel input (1000 t)	1063	587	375	248	185	203	166	-5.8	-8.6
Fuel input (TJ)	12662	8365	5355	3719	2805	3054	2552	-4.1	-8.1
Heat production (TJ)	9181	5829	3795	3145	2117	2374	2055	-4.4	-7.2
Coal manufactured gases²									
Fuel input (TJ)	1404	1082	-	-	-	-	-	-2.6	-
Heat production (TJ)	1062	822	-	-	-	-	-	-2.5	-
Other coal products³									
Fuel input (1000 t)	-	-	2	4	1	1	1	-	-
Fuel input (TJ)	-	-	57	130	41	33	31	-	-
Heat production (TJ)	-	-	36	68	29	28	24	-	-
Petroleum products									
Fuel input (1000 t)	198	102	89	22	12	9	3	-6.4	-22.3
Fuel input (TJ)	8017	4178	3501	887	501	397	141	-6.3	-21.5
Heat production (TJ)	4990	3512	2737	681	385	311	127	-3.5	-21.1
Natural gas²									
Fuel input (TJ)	21118	25590	29053	28879	30344	29012	24349	1.9	-0.4
Heat production (TJ)	15884	21405	22954	22995	23120	22450	20277	3.0	-0.4
Solid biofuels									
Fuel input (TJ)	-	350	587	1136	1178	1287	1151	-	8.9
Heat production (TJ)	-	285	437	903	936	1011	904	-	8.6
Industrial waste									
Fuel input (TJ)	9	109	390	443	462	358	352	28.3	8.7
Heat production (TJ)	7	82	164	251	265	225	216	27.9	7.2
Municipal waste									
Fuel input (TJ)	545	1260	1430	-	-	-	-	8.7	-
Heat production (TJ)	292	1220	1189	-	-	-	-	15.4	-
Biogases and liquid biofuels									
Fuel input (TJ)	-	95	14	-	-	-	-	-	-
Heat production (TJ)	-	74	12	-	-	-	-	-	-
Total combustible fuels									
Heat production (TJ)	37259	35475	32159	28885	27404	26577	23797	-0.5	-2.8

1. Excludes CHP plants

2. Coal manufactured gases and natural gas are expressed on a gross calorific value basis.

3. Includes Coking coal as well as peat and peat products, patent fuels, BKB and shale oil

Czech Republic

Table 7. Net maximum electricity generating capacity on 31 December (GW)

	1974	1990	2000	2005	2010	2012	2013	2014
Total capacity¹	-	15.28	15.32	17.41	19.83	20.45	21.08	21.97
Nuclear	-	1.76	1.76	3.76	3.90	4.04	4.29	4.29
Hydro	-	1.41	2.10	2.17	2.20	2.21	2.25	2.25
<i>of which: pumped storage</i>	-	..	1.15	1.15	1.15	1.15	1.17	1.17
Geothermal	-	-	-	-	-	-	-	-
Solar PV	-	-	-	-	1.73	2.02	2.06	2.07
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	-	-	0.02	0.21	0.26	0.26	0.28
Other (e.g. fuel cells)	-	-	-	-	-	-	-	-
Combustible fuels	-	12.11	11.47	11.46	11.79	11.92	12.21	13.08
<i>of which⁽²⁾:</i>								
<i>Single-fired:</i>								
Coal and Coal products	-	-	-	-	-	-	-	-
Liquid fuels	-	-	-	-	-	-	-	-
Natural gas	-	-	-	-	-	-	-	-
Biofuels & waste	-	-	-	-	-	-	-	-
<i>Multi-fired:</i>								
Solid / liquid	-	-	-	-	-	-	-	-
Solid / natural gas	-	-	-	-	-	-	-	-
Liquid / natural gas	-	-	-	-	-	-	-	-
Solid / liquid / gas	-	12.11	11.47	11.46	11.79	11.92	12.21	13.08
Type of generation								
Steam	-	12.11	11.22	10.72	10.77	10.88	10.82	10.89
Internal combustion	-	-	-	-	-	-	0.05	0.83
Gas turbine	-	-	-	-	-	-	-	-
Combined cycle	-	-	0.25	0.74	1.02	1.04	1.34	1.36
Other	-	-	-	-	-	-	-	-
Peak load	..	9.60	10.13	10.88	11.20	11.32	10.35	10.86
Of which Autoproducers	-	1.93	2.37	2.29	1.86	1.89	1.90	1.88
Nuclear	-	-	-	-	-	-	-	-
Hydro	-	0.05	0.09	0.16	0.17	0.18	0.19	0.19
<i>of which: pumped storage</i>	-	-	-	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-	-
Solar PV	-	-	-	-	-	-	-	-
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	-	-	-	-	-	-	-
Other (e.g. fuel cells)	-	-	-	-	-	-	-	-
Combustible fuels	-	1.88	2.28	2.14	1.69	1.71	1.71	1.69

1. Sum of available capacity figures

2. Breakdown of electrical capacity by type of fuel are shown in the individual country chapters.

Czech Republic**Table 8. Capacity factors (%)**

	1974	1990	2000	2005	2010	2012	2013	2014
Total plants¹	-	46.7	54.7	54.2	49.5	48.9	47.2	44.7
Nuclear	-	81.6	88.2	75.1	82.0	85.7	81.8	80.7
Hydro	-	11.7	12.6	16.0	17.6	14.8	18.5	15.0
<i>of which: pumped storage</i>	-	..	9.1	10.6	9.7	12.0	14.8	17.2
Geothermal	-	-	-	-	-	-	-	-
Solar PV	-	-	-	-	4.1	12.1	11.2	11.7
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	-	11.4	10.9	18.0	18.4	21.0	19.6
Other (e.g. fuel cells)	-	-	-	-	-	-	-	-
Combustible fuels	-	45.8	57.3	54.6	51.9	49.7	46.9	43.8
Of which autoproducers	-	43.3	50.4	50.5	57.1	48.2	49.4	51.5
Nuclear	-	-	-	-	-	-	-	-
Hydro	-	10.7	47.7	40.5	45.3	32.6	37.7	33.9
<i>of which: pumped storage</i>	-	-	-	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-	-
Solar PV	-	-	-	-	-	-	-	-
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	-	-	-	-	-	-	-
Other (e.g. fuel cells)	-	-	-	-	-	-	-	-
Combustible fuels	-	44.2	50.5	51.2	58.4	49.8	50.6	53.5

1. The capacity factor is defined as: the annual gross electricity generation (in GWh) divided by the net capacity (in GW) times 365 (days/year) times 24 (hours/day)

Czech Republic**Table 9a. Electricity imports by origin (GWh)**

	1974	1990	2000	2005	2010	2012	2013	2014
Total imports	3636	8179	8725	12351	6642	11587	10571	11842
Total from OECD	-	8179	8725	11115	5354	10543	8612	10115
Austria	-	34	2	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-
Canada	-	-	-	-	-	-	-	-
Czech Republic	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-
Germany	-	267	231	-	-	1783	963	2970
Greece	-	-	-	-	-	-	-	-
Hungary	-	-	-	-	-	-	-	-
Ireland	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-
Luxembourg	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-
Poland	-	7878	7220	11090	5354	8760	7649	7145
Portugal	-	-	-	-	-	-	-	-
Slovak Republic	-	-	1272	25	-	-	-	-
Slovenia	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-
Switzerland	-	-	-	-	-	-	-	-
Turkey	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-
United States	-	-	-	-	-	-	-	-
Total from non-OECD	-	-	-	-	-	-	-	-
Albania	-	-	-	-	-	-	-	-
Azerbaijan	-	-	-	-	-	-	-	-
Belarus	-	-	-	-	-	-	-	-
Bulgaria	-	-	-	-	-	-	-	-
Croatia	-	-	-	-	-	-	-	-
F.Y.R. of Macedonia	-	-	-	-	-	-	-	-
Georgia	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-
Romania	-	-	-	-	-	-	-	-
Russian Federation	-	-	-	-	-	-	-	-
Serbia	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-
Turkmenistan	-	-	-	-	-	-	-	-
Ukraine	-	-	-	-	-	-	-	-
Non-specified/others	3636	-	-	1236	1288	1044	1959	1727

Czech Republic**Table 9b. Electricity exports by destination (GWh)**

	1974	1990	2000	2005	2010	2012	2013	2014
Total exports	4420	8871	18742	24985	21590	28707	27458	28142
Total to OECD	-	8730	18742	23749	20266	27663	25510	26434
Austria	-	2980	5481	6105	6292	10257	10424	11688
Belgium	-	-	-	-	-	-	-	-
Canada	-	-	-	-	-	-	-	-
Czech Republic	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-
Germany	-	2641	8932	12614	8834	7524	7918	5407
Greece	-	-	-	-	-	-	-	-
Hungary	-	-	-	-	-	-	-	-
Ireland	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-
Luxembourg	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-
Poland	-	13	64	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-
Slovak Republic	-	3096	4265	5030	5140	9882	7168	9339
Slovenia	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-
Switzerland	-	-	-	-	-	-	-	-
Turkey	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-
United States	-	-	-	-	-	-	-	-
Total to non-OECD	-	-	-	-	-	-	-	-
Albania	-	-	-	-	-	-	-	-
Azerbaijan	-	-	-	-	-	-	-	-
Belarus	-	-	-	-	-	-	-	-
Bulgaria	-	-	-	-	-	-	-	-
Croatia	-	-	-	-	-	-	-	-
F.Y.R. of Macedonia	-	-	-	-	-	-	-	-
Georgia	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-
Romania	-	-	-	-	-	-	-	-
Russian Federation	-	-	-	-	-	-	-	-
Serbia	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-
Turkmenistan	-	-	-	-	-	-	-	-
Ukraine	-	-	-	-	-	-	-	-
Non-specified/others	4420	141	-	1236	1324	1044	1948	1708

Czech Republic

Table 10a. Share of electricity in total final consumption (%)

	1974	1990	2000	2005	2010	2012	2013	2014
Share of total final consumption	8.5	12.7	16.4	17.1	18.6	19.3	19.3	19.4
Industry	9.2	14.6	17.7	22.9	27.4	28.6	29.5	29.0
Iron and steel	-	11.2	12.0	14.8	18.6	17.3	17.0	16.3
Chem. and petrochemical	-	45.6	17.4	17.9	28.9	28.7	29.3	29.7
Non-ferrous metals	-	89.7	28.9	31.5	26.2	35.4	36.3	42.1
Non-metallic minerals	-	37.6	14.9	18.6	17.2	18.7	18.8	18.6
Transport equipment	-	40.0	29.0	41.8	47.1	49.3	50.8	51.8
Machinery	-	61.8	30.9	38.6	41.7	47.7	47.5	51.3
Mining and quarrying	-	67.1	23.2	33.1	25.2	43.7	41.9	36.9
Food and tobacco	-	32.0	15.3	19.1	25.6	24.7	24.8	22.3
Paper, pulp and printing	-	36.0	28.4	25.8	23.9	24.4	23.2	24.6
Wood and wood products	-	55.8	31.5	21.9	19.2	21.8	20.3	19.2
Construction	-	55.6	8.8	15.6	20.1	21.6	24.6	18.2
Textile and leather	-	40.7	32.2	38.6	44.1	46.9	46.9	48.6
Non specified/other	15.4	3.7	15.3	48.0	40.4	39.7	49.8	43.8
Transport	8.0	10.5	4.7	3.2	2.3	2.5	2.4	2.3
Rail Transport	-	-	49.4	51.3	56.5	59.4	59.7	58.7
Pipeline Transport	-	-	9.3	11.5	7.5	10.4	10.5	11.4
Road	-	-	0.2	0.1	0.1	0.1	0.1	0.1
Transport Non Specified	100.0	100.0	100.0	100.0	-	-	-	-
Other sectors	8.3	12.5	23.4	25.1	26.6	27.7	26.7	29.2
Commercial & publ. serv.	30.0	10.3	33.5	34.7	39.4	41.7	41.0	45.1
Residential	5.7	11.6	19.3	19.9	19.4	20.3	19.8	21.4
Agriculture	13.2	16.3	15.3	15.8	16.4	14.9	11.0	10.4
Fishing	-	-	-	97.0	100.0	100.0	100.0	76.9
Sector non specified	7.1	21.6	25.7	57.9	70.7	69.0	68.0	71.0

Table 10b. Share of heat in total final consumption (%)

	1974	1990	2000	2005	2010	2012	2013	2014
Share of total final consumption	-	9.0	10.2	8.9	8.5	8.8	8.6	8.7
Industry	-	6.8	8.5	8.0	8.5	9.4	8.3	9.2
Iron and steel	-	-	5.4	3.7	5.2	6.4	5.6	6.3
Chem. and petrochemical	-	-	14.6	11.2	20.7	23.3	21.6	22.7
Non-ferrous metals	-	-	3.5	3.0	2.8	2.2	1.5	2.7
Non-metallic minerals	-	-	2.2	2.2	1.8	1.5	1.6	1.8
Transport equipment	-	-	11.2	18.6	11.9	10.8	10.0	11.6
Machinery	-	-	19.9	14.0	13.5	13.5	10.4	13.5
Mining and quarrying	-	-	9.8	1.5	1.3	1.0	0.7	0.7
Food and tobacco	-	-	16.2	13.9	12.3	14.4	12.7	15.0
Paper, pulp and printing	-	-	8.3	6.5	2.9	3.5	3.3	3.4
Wood and wood products	-	-	23.3	4.8	3.7	3.3	3.1	3.0
Construction	-	-	5.5	12.2	10.4	9.7	9.0	10.2
Textile and leather	-	-	9.9	12.9	12.0	11.1	10.8	8.0
Non specified/other	-	12.7	0.2	0.6	0.5	0.4	0.4	0.4
Transport	-	-	-	-	-	-	-	-
Other sectors	-	15.1	17.9	17.4	15.4	15.8	15.8	16.5
Commercial & publ. serv.	-	15.5	20.6	19.5	13.7	14.6	14.4	15.5
Residential	-	17.5	19.7	18.4	18.0	18.3	18.3	19.3
Agriculture	-	10.6	2.5	2.4	2.3	2.2	2.0	2.0
Fishing	-	-	-	3.0	-	-	-	-
Sector non specified	-	-	-	0.0	0.0	0.0	0.0	0.0

Source: IEA/OECD World Energy Balances.

Denmark

Figure 1. Total final consumption by fuel

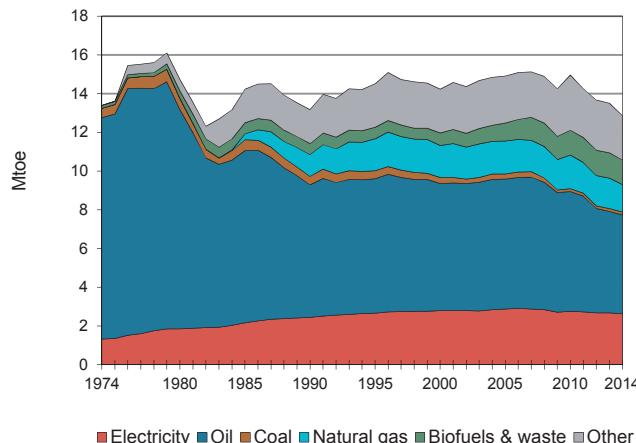


Figure 2. Electricity generation by fuel

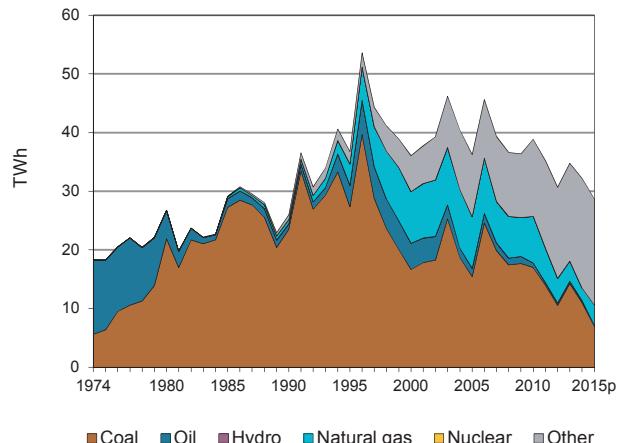


Figure 3. Electricity consumption by sector

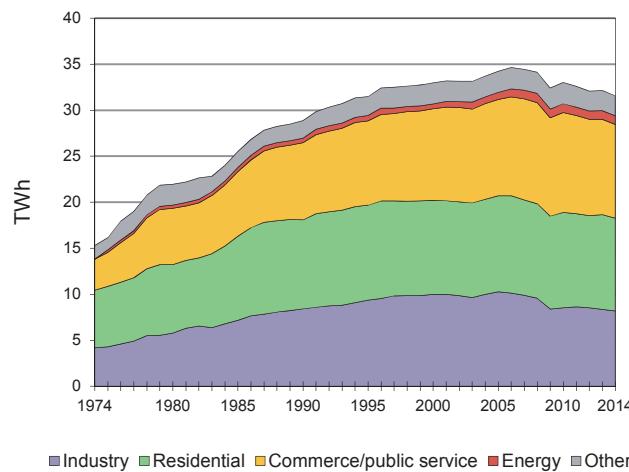


Figure 4. Electricity indicators

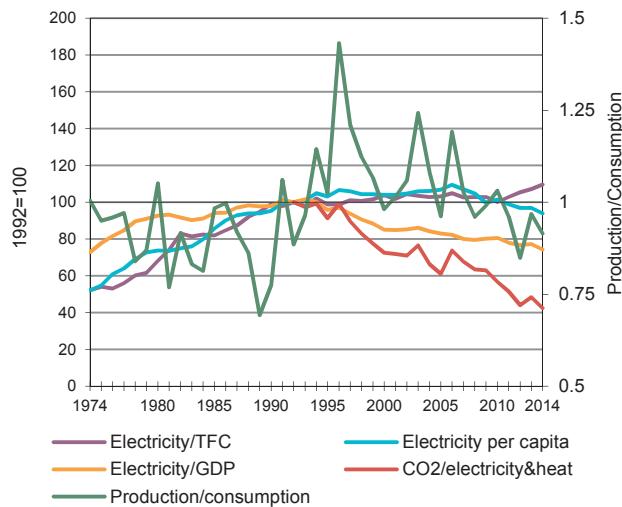
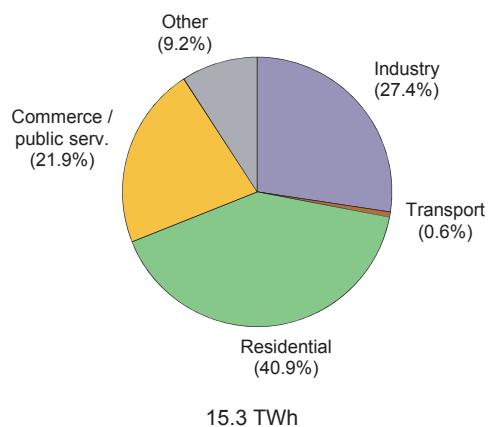
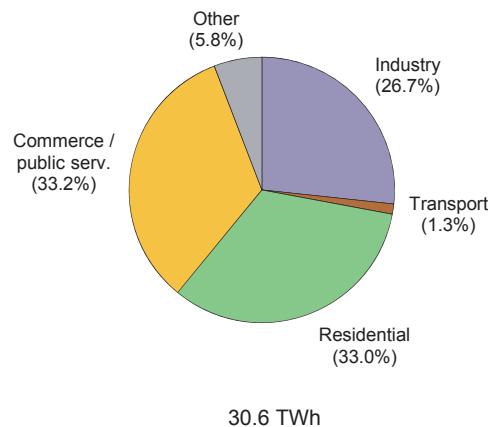


Figure 5. Total final electricity consumption by sector

1974



2014



Denmark**Table 1. Energy consumption, GDP and population**

	1974	1990	2000	2010	2013	2014	2015p	74-00	00-15
TPES (Mtoe)	17.61	17.36	18.63	19.48	17.55	16.21	16.01	0.2	-1.0
GDP (billion 2005 USD)	165.08	229.22	298.48	319.81	322.47	326.54	330.39	2.3	0.7
TPES/GDP ¹	0.11	0.08	0.06	0.06	0.05	0.05	0.05	-2.0	-1.7
Population (millions)	5.05	5.14	5.34	5.55	5.61	5.64	5.66	0.2	0.4
TPES/population ²	3.49	3.38	3.49	3.51	3.13	2.87	2.83	0.0	-1.4
TPES/GDP (2005 = 100)	180	128	105	103	92	84	82	-2.0	-1.7
Ele.TFC/GDP(2005=100) ³	88	118	104	96	92	89	..	0.6	..
Ele.TFC/population ⁴	3034	5521	6083	5781	5563	5429	..	2.7	..
Elec. generated (TWh) ⁵	18.30	25.98	36.05	38.86	34.76	32.18	28.73	2.6	-1.5

Source: IEA/OECD *World Energy Balances* and OECD *Main Economic Indicators*.

Table 2. Total primary energy supply (TPES) by source

	1974	1990	2000	2010	2013	2014	2015p	74-00	00-15
TPES (Mtoe)	17.61	17.36	18.63	19.48	17.55	16.21	16.01	0.2	-1.0
Coal	1.67	6.09	3.99	3.81	3.14	2.39	1.75	3.4	-5.3
Oil	15.59	7.65	8.02	7.02	6.26	5.91	5.94	-2.5	-2.0
Natural gas	0.00	1.82	4.45	4.42	3.32	2.81	2.83	46.6	-3.0
Biofuels & waste	0.35	1.14	1.75	3.63	3.70	3.64	3.66	6.3	5.1
Nuclear	-	-	-	-	-	-	-	-	-
Geothermal	-	0.00	0.00	0.01	0.01	0.00	0.01	-	9.4
Solar, wind, tide ⁶	-	0.05	0.37	0.69	1.03	1.21	1.30	-	8.7
Hydro	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.9	-3.3
Net electricity imports ⁷	-0.01	0.61	0.06	-0.10	0.09	0.25	0.51	-	15.7
Heat	-	0.00	0.00	0.00	0.01	0.00	0.01	-	4.0

Source: IEA/OECD *World Energy Balances*.

1. In units of toe/2005 thousand US dollars.

2. In units of toe/per capita.

3. Ele.TFC = electricity total final consumption.

4. In units of kWh/per capita.

5. Electricity generated = gross production - amount of electricity produced in pumped storage plants.

6. Includes wave, ocean and other (e.g. fuel cells).

7. Net Imports = total imports - total exports

Denmark

Table 3a. Summary electricity production and consumption¹ (TWh)

	1974	1990	2000	2005	2010	2013	2014	2015e
Gross production	18.30	25.98	36.05	36.25	38.86	34.76	32.18	28.73
- Own use by power plant	1.07	1.70	1.61	1.83	1.99	1.60	1.37	-
Net production	17.23	24.28	34.45	34.41	36.87	33.16	30.81	-
- Used for heat pumps	-	-	0.02	0.02	0.01	0.01	0.01	0.01
- Used for electric boilers	-	-	-	-	0.03	0.15	0.11	0.12
- Used for pumped storage	-	-	-	-	-	-	-	-
+ Imports	0.67	11.97	8.42	12.94	10.60	11.46	12.70	15.65
- Exports	0.76	4.93	7.75	11.57	11.73	10.38	9.85	9.73
Electrical energy supplied	17.15	31.33	35.09	35.76	35.70	34.08	33.54	..
- Transmission & distr. losses	1.84	2.47	2.10	1.53	2.62	1.93	1.97	..
- Statistical difference	-	-0.00	-	0.01	0.05	0.00	-	..
Total consumption	15.30	28.87	32.99	34.23	33.02	32.15	31.57	..
Energy industry consumption²	..	0.50	0.53	0.77	0.96	0.94	0.94	..
Coal Mines	-	-	-	-	-	-	-	..
Oil + Gas Extraction	-	-	-	-	-	-	-	..
Patent Fuel Plants	-	-	-	-	-	-	-	..
Coke Ovens	-	-	-	-	-	-	-	..
BKB plants	-	-	-	-	-	-	-	..
Gas Works	..	-	-	-	-	-	-	..
Blast Furnaces	-	-	-	-	-	-	-	..
Oil Refineries	..	0.26	0.22	0.30	0.33	0.29	0.30	..
Nuclear Industry	-	-	-	-	-	-	-	..
Coal Liquefaction Plants	-	-	-	-	-	-	-	..
LNG/Regasification Plants	-	-	-	-	-	-	-	..
Energy - Non Specified	..	0.24	0.32	0.47	0.63	0.65	0.65	..
Final consumption	15.30	28.37	32.46	33.46	32.06	31.21	30.63	..
Industry	4.19	8.41	9.99	10.26	8.51	8.35	8.17	..
Iron and steel	0.23	0.70	0.93	0.57	0.24	0.39	0.39	..
Chem. and petrochemical	0.72	0.87	1.31	1.39	1.25	1.39	1.36	..
Non-ferrous metals	-	-	-	-	-	-	-	..
Non-metallic minerals	0.59	0.71	0.89	0.95	0.66	0.74	0.73	..
Transport equipment	0.20	0.22	0.20	0.19	0.20	0.10	0.09	..
Machinery	0.60	1.43	1.51	1.65	1.55	1.46	1.43	..
Mining and quarrying	-	0.10	0.10	0.08	0.07	0.10	0.09	..
Food and tobacco	0.72	2.07	2.32	2.56	2.32	2.30	2.25	..
Paper, pulp and printing	0.34	0.57	0.62	0.58	0.51	0.32	0.32	..
Wood and wood products	0.21	0.25	0.33	0.33	0.23	0.23	0.23	..
Construction	0.18	0.29	0.34	0.35	0.38	0.36	0.36	..
Textile and leather	0.21	0.23	0.21	0.18	0.16	0.12	0.12	..
Non specified/other	0.20	0.97	1.24	1.43	0.96	0.83	0.82	..
Transport	0.10	0.20	0.35	0.38	0.40	0.39	0.39	..
Rail Transport	0.10	0.20	0.35	0.38	0.40	0.39	0.39	..
Pipeline Transport	-	-	-	-	-	-	-	..
Road	-	-	-	-	-	-	-	..
Transport Non Specified	-	-	-	-	-	-	-	..
Commercial & publ. serv.	6.26	9.67	10.22	10.45	10.39	10.31	10.10	..
Residential	3.35	8.39	9.95	10.47	10.84	10.35	10.18	..
Agriculture	0.96	1.69	1.95	1.91	1.92	1.83	1.78	..
Fishing	-	-	-	-	-	-	-	..
Sector non specified	0.45	-	-	-	-	-	-	..

1. Electricity generation from main activity producer power plants and autoproducers .

2. Energy industry consumption = electricity consumed by transformation industries for heating, traction and lighting purposes;

excludes own use by power plant and electricity used for heat pumps, electric boilers and pumped storage.

Denmark**Table 3b. Summary heat production and consumption¹ (TJ)**

	1974	1990	2000	2005	2010	2013	2014	2015e
Gross production	-	92389	119172	129020	152058	136038	122136	126475
- Own use by power plant	-	2	978	1684	1183	1295	1257	-
Net production	-	92387	118194	127336	150875	134743	120879	-
- Used for electricity production	-	-	-	-	-	-	-	-
+ Imports	-	122	144	153	174	155	141	150
- Exports	-	-	-	-	-	-	-	-
Heat energy supplied	-	92509	118338	127489	151049	134898	121020	..
- Transmission & distr. losses	-	18507	23667	25462	29872	26851	24092	..
- Statistical difference	-	-27	25	241	1688	644	559	..
Total consumption	-	74029	94646	101786	119489	107403	96369	..
Energy industry consumption²	-	428	275	355	584	586	578	..
Coal Mines	-	-	-	-	-	-	-	..
Oil + Gas Extraction	-	-	-	-	-	-	-	..
Patent Fuel Plants	-	-	-	-	-	-	-	..
Coke Ovens	-	-	-	-	-	-	-	..
BKB plants	-	-	-	-	-	-	-	..
Gas Works	-	-	-	-	-	-	-	..
Blast Furnaces	-	-	-	-	-	-	-	..
Oil Refineries	-	428	275	355	584	586	578	..
Nuclear Industry	-	-	-	-	-	-	-	..
Coal Liquefaction Plants	-	-	-	-	-	-	-	..
LNG/Regasification Plants	-	-	-	-	-	-	-	..
Energy - Non Specified	-	-	-	-	-	-	-	..
Final consumption	-	73601	94371	101431	118905	106817	95791	..
Industry	-	2976	6674	6372	4690	4156	3313	..
Iron and steel	-	257	645	369	137	205	163	..
Chem. and petrochemical	-	320	907	893	720	725	578	..
Non-ferrous metals	-	-	-	-	-	-	-	..
Non-metallic minerals	-	259	612	609	380	386	308	..
Transport equipment	-	79	136	123	117	49	39	..
Machinery	-	525	1046	1059	895	762	607	..
Mining and quarrying	-	37	67	54	41	50	40	..
Food and tobacco	-	760	1604	1646	1335	1196	953	..
Paper, pulp and printing	-	209	427	371	292	168	134	..
Wood and wood products	-	91	230	211	131	120	96	..
Construction	-	-	-	-	-	-	-	..
Textile and leather	-	83	146	117	91	61	49	..
Non specified/other	-	356	854	920	551	434	346	..
Transport	-	-	-	-	-	-	-	..
Commercial & publ. serv.	-	21241	26444	29602	35592	32062	28842	..
Residential	-	47514	59368	63472	76638	69014	62051	..
Agriculture	-	1870	1885	1985	1985	1585	1585	..
Fishing	-	-	-	-	-	-	-	..
Sector non specified	-	-	-	-	-	-	-	..

1. Heat generation from main activity producer power plants and autoproducers.

2. Energy industry consumption = electricity consumed by transformation industries for heating, traction and lighting purposes;

excludes own use by power plant and electricity used for heat pumps, electric boilers and pumped storage.

Denmark

Table 4a. Gross electricity production by source (TWh)

	1974	1990	2000	2010	2013	2014	2015e	74-00	00-15
Total plants gross production¹	18.30	25.98	36.05	38.86	34.76	32.18	28.73	2.6	-1.5
Nuclear	-	-	-	-	-	-	-	-	-
Hydro	0.02	0.03	0.03	0.02	0.01	0.02	0.02	0.9	-3.3
- Of which pumped storage	-	-	-	-	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-	-	-
Solar	-	-	0.00	0.01	0.52	0.60	0.60	-	53.3
Wind	-	0.61	4.24	7.81	11.12	13.08	14.13	-	8.4
Combustible fuels	18.28	25.34	31.74	31.03	23.11	18.49	13.98	2.1	-5.3
- Coal	..	23.56	16.67	17.01	14.29	11.06	6.95	..	-5.7
- Oil	..	0.88	4.44	0.77	0.35	0.32	0.26	..	-17.3
- Natural gas	..	0.69	8.77	7.91	3.42	2.10	3.38	..	-6.2
- Biofuels & waste	..	0.21	1.86	5.34	5.05	5.02	3.39	..	4.1
Other ²	-	-	0.04	-	-	-	-	-	-
Of which autoproducers	0.42	0.58	2.83	2.28	2.44	2.61	..	7.6	..
Nuclear	-	-	-	-	-	-	..	-	..
Hydro	-	-	-	-	-	-	..	-	..
- Of which pumped storage	-	-	-	-	-	-	..	-	..
Geothermal	-	-	-	-	-	-	..	-	..
Solar	-	-	0.00	0.01	0.52	0.60	..	-	..
Wind	-	-	-	-	-	-	..	-	..
Combustible fuels	0.42	0.58	2.79	2.28	1.92	2.01	..	7.6	..
- Coal	..	0.17	0.05	0.01	0.00	0.00
- Oil	..	0.16	0.30	0.19	0.19	0.21
- Natural gas	..	0.09	1.53	0.76	0.41	0.38
- Biofuels & waste	..	0.16	0.91	1.32	1.32	1.42
Other ²	-	-	0.04	-	-	-	..	-	..

Table 4b. Gross heat production by source (PJ)

	1974	1990	2000	2010	2013	2014	2015e	74-00	00-15
Total plants heat generation³	-	92.39	119.17	152.06	136.04	122.14	126.48	-	0.4
Nuclear	-	-	-	-	-	-	-	-	-
Geothermal	-	0.02	0.03	0.11	0.11	0.08	0.11	-	9.4
Combustible fuels	-	92.36	115.42	149.18	132.60	118.41	122.32	-	0.4
- Coal	..	52.91	38.87	36.34	32.34	24.65	22.18	..	-3.7
- Oil	..	5.91	3.87	4.63	2.06	1.15	1.11	..	-8.0
- Natural gas	..	14.08	41.62	44.84	30.04	23.47	23.23	..	-3.8
- Biofuels & waste	..	19.47	31.06	63.37	68.16	69.14	75.79	..	6.1
Chemical processes	-	-	-	-	-	-	-	-	-
Heat pumps	-	-	0.08	0.04	0.11	0.11	0.16	-	5.1
Electric boilers	-	-	-	0.11	0.49	0.39	0.58	-	-
Other sources	-	-	3.62	2.48	2.25	2.49	2.49	-	-2.5
Of which Autoproducers	-	11.00	17.89	23.16	23.18	24.71	..	-	..
Nuclear	-	-	-	-	-	-	..	-	..
Geothermal	-	-	-	-	-	-	..	-	..
Combustible fuels	-	11.00	14.19	20.74	20.89	22.18	..	-	..
- Coal	..	0.05	-	-	-	-
- Oil	..	0.14	0.46	0.39	0.39	0.38
- Natural gas	..	0.02	0.57	1.00	0.60	0.28
- Biofuels & waste	..	10.80	13.17	19.35	19.91	21.51
Chemical processes	-	-	-	-	-	-	..	-	..
Heat pumps	-	-	0.08	0.04	0.04	0.05	..	-	..
Electric boilers	-	-	-	-	-	-	..	-	..
Other sources	-	-	3.62	2.38	2.25	2.49	..	-	..

1. Electricity generated from main activity producer power plants and autoproducers.

2. Includes wave, ocean and other sources (e.g. fuel cells, electricity from chemical heat).

3. Total heat generation = gross production of heat from main activity producer + heat sold in autoproducers.

Denmark**Table 5. Net electricity production by autoproducers (GWh)**

	1974	1990	2000	2010	2012	2013	2014	74-00	00-14
Total	417	581	2830	2284	2047	2437	2606	7.6	-0.6
Total energy	-	48	214	118	133	140	161	-	-2.0
Coal mines	-	-	-	-	-	-	-	-	-
Oil and gas extraction	-	-	-	-	-	-	-	-	-
Patent fuel plants	-	-	-	-	-	-	-	-	-
Coke ovens	-	-	-	-	-	-	-	-	-
Gas works	-	-	25	3	4	11	10	-	-6.3
BKB	-	48	189	115	129	129	151	-	-1.6
Oil refineries	-	-	-	-	-	-	-	-	-
Energy non specified/other	-	-	-	-	-	-	-	-	-
Total industry	417	451	1357	688	404	388	366	4.6	-8.9
Iron and steel	-	-	-	-	-	-	-	-	-
Chemical and petrochemical	40	58	243	142	107	109	111	7.2	-5.4
Non-ferrous metals	-	-	-	-	-	-	-	-	-
Non-metallic minerals	50	42	6	-	1	1	1	-7.8	-12.0
Transport equipment	-	-	23	-	-	-	-	-	-
Machinery	-	-	28	10	2	1	2	-	-17.2
Mining and quarrying	-	20	221	-	-	-	-	-	-
Food and tobacco	252	190	479	425	211	215	210	2.5	-5.7
Pulp and printing	75	62	132	91	81	58	35	2.2	-9.0
Wood and wood products	-	79	175	19	2	4	5	-	-22.4
Construction	-	-	-	-	-	-	-	-	-
Textile and leather	-	-	27	1	-	-	2	-	-17.0
Non specified/other industries	-	-	23	-	-	-	-	-	-
Total transport	-	-	-	-	-	-	-	-	-
Rail	-	-	-	-	-	-	-	-	-
Pipeline	-	-	-	-	-	-	-	-	-
Transport non specified	-	-	-	-	-	-	-	-	-
Other	-	82	1259	1478	1510	1909	2079	-	3.6
Commerce and pub. services	-	82	816	1257	1280	1276	1378	-	3.8
Residential	-	-	50	41	126	531	608	-	19.5
Agriculture	-	-	393	180	104	102	93	-	-9.8
Fishing	-	-	-	-	-	-	-	-	-
Sector non specified	-	-	-	-	-	-	-	-	-

Notes: Data reported in this table prior to 1990 may refer to combustible fuels only.

Denmark

Table 6a. Electricity production from combustible fuels in electricity plants¹

	1990	2000	2005	2010	2012	2013	2014	90-00	00-14
Steam coal									
Fuel input (1000 t)	730	819	-	-	-	-	-	1.2	-
Fuel input (TJ)	18466	20303	-	-	-	-	-	1.0	-
Electricity production (GWh)	1919	2423	-	-	-	-	-	2.4	-
Lignite									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
Coal manufactured gases²									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
Other coal products³									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
Oil and petroleum products									
Fuel input (1000 t)	45	23	4	27	18	16	7	-6.5	-8.1
Fuel input (TJ)	1833	940	185	1159	772	672	296	-6.5	-7.9
Electricity production (GWh)	167	41	14	94	62	53	23	-13.1	-4.0
Natural gas²									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
Solid biofuels									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
Industrial waste									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
Municipal waste									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
Biogases and liquid biofuels									
Fuel input (TJ)	-	27	20	16	21	22	21	-	-1.8
Electricity production (GWh)	-	3	2	1	3	1	1	-	-7.5
Total combustible fuels									
Electricity production (GWh)	2086	2467	16	95	65	54	24	1.7	-28.2

1. Excludes CHP plants.

2. Coal manufactured gases and natural gas are expressed on a gross calorific value basis.

3. Includes Coking coal as well as peat and peat products, patent fuels, BKB and shale oil

Denmark**Table 6b. Electricity and heat produced for sale from combustible fuels
in combined heat and power plants (CHP plants)**

	1990	2000	2005	2010	2012	2013	2014	90-00	00-14
Steam coal									
Fuel input (1000 t)	8439	5372	5906	6457	4180	5312	4134	-4.4	-1.9
Fuel input (TJ)	213588	133320	144191	157825	101293	130081	102108	-4.6	-1.9
Electricity production (GWh)	21639	14250	15463	17006	10539	14292	11064	-4.1	-1.8
CHP Heat production (TJ)	47632	38837	34143	36223	31834	32259	24577	-2.0	-3.2
Lignite									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
CHP Heat production (TJ)	-	-	-	-	-	-	-	-	-
Coal manufactured gases¹									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
CHP Heat production (TJ)	-	-	-	-	-	-	-	-	-
Other coal products²									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
CHP Heat production (TJ)	-	-	-	-	-	-	-	-	-
Petroleum products									
Fuel input (1000 t)	200	1389	348	192	89	93	74	21.4	-18.9
Fuel input (TJ)	8192	40825	14505	8227	3915	4144	3374	17.4	-16.3
Electricity production (GWh)	715	4398	1361	680	341	298	294	19.9	-17.6
CHP Heat production (TJ)	2549	2172	4880	1985	1143	1026	657	-1.6	-8.2
Natural gas¹									
Fuel input (TJ)	8088	98249	92867	84297	47273	39542	23296	28.4	-9.8
Electricity production (GWh)	694	8774	8780	7906	4192	3418	2096	28.9	-9.7
CHP Heat production (TJ)	3287	39102	35318	35080	19952	17368	9386	28.1	-9.7
Solid Biofuels									
Fuel input (TJ)	1224	6150	22113	40152	40969	42200	41155	17.5	14.5
Electricity production (GWh)	108	411	1894	3324	3176	3072	2958	14.3	15.1
CHP Heat production (TJ)	319	3189	9936	20651	23112	24951	24782	25.9	15.8
Industrial waste									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
CHP Heat production (TJ)	-	-	-	-	-	-	-	-	-
Municipal waste									
Fuel input (TJ)	991	20908	31089	32654	32282	32301	33473	35.7	3.4
Electricity production (GWh)	62	1236	1814	1659	1622	1589	1609	34.9	1.9
CHP Heat production (TJ)	460	13117	20536	21078	21601	21428	22832	39.8	4.0
Biogases and liquid biofuels									
Fuel input (TJ)	498	2179	2915	3398	3495	3684	4202	15.9	4.8
Electricity production (GWh)	40	206	279	356	375	383	448	17.8	5.7
CHP Heat production (TJ)	105	691	1034	1000	1240	1298	1480	20.7	5.6
Total combustible fuels									
Electricity production (GWh)	23258	29275	29591	30931	20245	23052	18469	2.3	-3.2
CHP Heat production (TJ)	54352	97108	105847	116017	98882	98330	83714	6.0	-1.1

1. Coal manufactured gases and natural gas are expressed on a gross calorific value basis.

2. Includes Coking coal as well as peat and peat products, patent fuels, BKB and shale oil

Denmark

Table 6c. Heat produced for sale from combustible fuels in heat plants¹

	1990	2000	2005	2010	2012	2013	2014	90-00	00-14
Steam coal									
Fuel input (1000 t)	231	2	2	5	4	4	3	-37.8	2.9
Fuel input (TJ)	6017	40	50	134	104	95	79	-39.4	5.0
Heat production (TJ)	5274	37	44	115	91	77	71	-39.1	4.8
Lignite									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Heat production (TJ)	-	-	-	-	-	-	-	-	-
Coal manufactured gases²									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Heat production (TJ)	-	-	-	-	-	-	-	-	-
Other coal products³									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Heat production (TJ)	-	-	-	-	-	-	-	-	-
Petroleum products									
Fuel input (1000 t)	95	56	37	79	42	36	35	-5.1	-3.3
Fuel input (TJ)	3956	2325	1510	3257	1698	1458	1516	-5.2	-3.0
Heat production (TJ)	3363	1697	1225	2643	1233	1038	497	-6.6	-8.4
Natural gas²									
Fuel input (TJ)	12259	2942	4861	10906	14023	14264	16132	-13.3	12.9
Heat production (TJ)	10788	2518	4059	9764	12661	12674	14083	-13.5	13.1
Solid biofuels									
Fuel input (TJ)	7809	8433	11185	17135	17816	17755	17119	0.8	5.2
Heat production (TJ)	7054	7700	10481	16272	16917	17246	16633	0.9	5.7
Industrial waste									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Heat production (TJ)	-	-	-	-	-	-	-	-	-
Municipal waste									
Fuel input (TJ)	13567	7911	3996	3363	3066	3183	3005	-5.3	-6.7
Heat production (TJ)	11504	6108	3269	2538	2289	2458	2491	-6.1	-6.2
Biogases and liquid biofuels									
Fuel input (TJ)	30	286	946	2134	1183	909	1101	25.3	10.1
Heat production (TJ)	24	251	774	1833	1052	778	920	26.5	9.7
Total combustible fuels									
Heat production (TJ)	38007	18311	19852	33165	34243	34271	34695	-7.0	4.7

1. Excludes CHP plants

2. Coal manufactured gases and natural gas are expressed on a gross calorific value basis.

3. Includes Coking coal as well as peat and peat products, patent fuels, BKB and shale oil

Denmark**Table 7. Net maximum electricity generating capacity on 31 December (GW)**

	1974	1990	2000	2005	2010	2012	2013	2014
Total capacity¹	5.96	9.12	12.32	13.04	13.44	14.08	13.81	13.66
Nuclear	-	-	-	-	-	-	-	-
Hydro	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
<i>of which: pumped storage</i>	-	-	-	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-	-
Solar PV	-	-	-	-	0.01	0.40	0.57	0.61
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	0.33	2.39	3.13	3.80	4.16	4.82	4.89
Other (e.g. fuel cells)	-	-	-	-	-	-	-	-
Combustible fuels	5.95	8.78	9.92	9.89	9.62	9.50	8.41	8.15
<i>of which⁽²⁾:</i>								
<i>Single-fired:</i>								
Coal and Coal products	0.73	0.20	0.01	0.01	0.01	-	-	-
Liquid fuels	3.01	0.85	1.90	0.89	1.37	1.68	1.11	1.13
Natural gas	-	0.05	1.53	1.50	1.49	1.57	1.61	1.61
Biofuels & waste	-	0.10	0.13	0.18	0.21	0.23	0.32	0.34
<i>Multi-fired:</i>								
Solid / liquid	2.21	6.97	4.74	5.29	4.62	4.39	3.51	3.28
Solid / natural gas	-	0.01	0.22	0.24	0.24	0.19	0.29	0.24
Liquid / natural gas	-	0.26	0.75	0.86	0.65	0.50	0.58	0.56
Solid / liquid / gas	-	0.36	0.63	0.93	1.03	0.94	1.00	0.99
<i>Type of generation</i>								
Steam	-	8.45	7.93	7.18	6.63	6.51	5.41	5.14
Internal combustion	-	0.07	0.95	1.06	1.31	1.32	1.31	1.33
Gas turbine	-	0.27	0.53	0.57	0.59	0.59	0.63	0.63
Combined cycle	-	-	0.51	1.09	1.09	1.07	1.07	1.07
Other	-	-	-	-	0.01	0.02	-	-
<i>Peak load</i>	..	5.79	6.27	6.32	6.27	6.22	6.08	5.94
Of which Autoproducers	0.15	0.16	0.54	0.64	0.64	1.03	1.15	1.18
Nuclear	-	-	-	-	-	-	-	-
Hydro	-	-	-	-	-	-	-	-
<i>of which: pumped storage</i>	-	-	-	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-	-
Solar PV	-	-	-	-	0.01	0.40	0.57	0.61
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	-	-	-	-	-	-	-
Other (e.g. fuel cells)	-	-	-	-	-	-	-	-
Combustible fuels	0.15	0.16	0.54	0.64	0.64	0.63	0.57	0.57

1. Sum of available capacity figures

2. Breakdown of electrical capacity by type of fuel are shown in the individual country chapters.

Denmark**Table 8. Capacity factors (%)**

	1974	1990	2000	2005	2010	2012	2013	2014
Total plants¹	35.1	32.5	33.4	31.7	33.0	24.9	28.7	26.9
Nuclear	-	-	-	-	-	-	-	-
Hydro	34.3	32.0	34.3	23.9	26.6	21.6	16.5	19.0
<i>of which: pumped storage</i>	-	-	-	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-	-
Solar PV	-	-	11.4	7.6	9.8	3.0	10.4	11.2
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	21.4	20.3	24.1	23.5	28.2	26.3	30.5
Other (e.g. fuel cells)	-	-	-	-	-	-	-	-
Combustible fuels	35.1	32.9	36.6	34.2	36.8	24.4	31.4	25.9
Of which autoproducers	31.7	41.5	59.7	51.4	40.6	22.6	24.3	25.2
Nuclear	-	-	-	-	-	-	-	-
Hydro	-	-	-	-	-	-	-	-
<i>of which: pumped storage</i>	-	-	-	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-	-
Solar PV	-	-	11.4	7.6	9.8	3.0	10.4	11.2
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	-	-	-	-	-	-	-
Other (e.g. fuel cells)	-	-	-	-	-	-	-	-
Combustible fuels	31.7	41.5	59.0	51.6	40.9	35.2	38.2	40.0

1. The capacity factor is defined as: the annual gross electricity generation (in GWh) divided by the net capacity (in GW) times 365 (days/year) times 24 (hours/day)

Denmark**Table 9a. Electricity imports by origin (GWh)**

	1974	1990	2000	2005	2010	2012	2013	2014
Total imports	673	11973	8417	12943	10599	15920	11459	12702
Total from OECD	-	11973	8417	12943	10599	15920	11459	12702
Austria	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-
Canada	-	-	-	-	-	-	-	-
Czech Republic	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-
Germany	-	93	396	592	6400	1361	5716	3826
Greece	-	-	-	-	-	-	-	-
Hungary	-	-	-	-	-	-	-	-
Ireland	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-
Luxembourg	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-
Norway	-	3958	4631	4710	1452	5455	2553	4120
Poland	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-
Slovak Republic	-	-	-	-	-	-	-	-
Slovenia	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-
Sweden	-	7922	3390	7641	2747	9104	3190	4756
Switzerland	-	-	-	-	-	-	-	-
Turkey	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-
United States	-	-	-	-	-	-	-	-
Total from non-OECD	-	-	-	-	-	-	-	-
Albania	-	-	-	-	-	-	-	-
Azerbaijan	-	-	-	-	-	-	-	-
Belarus	-	-	-	-	-	-	-	-
Bulgaria	-	-	-	-	-	-	-	-
Croatia	-	-	-	-	-	-	-	-
F.Y.R. of Macedonia	-	-	-	-	-	-	-	-
Georgia	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-
Romania	-	-	-	-	-	-	-	-
Russian Federation	-	-	-	-	-	-	-	-
Serbia	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-
Turkmenistan	-	-	-	-	-	-	-	-
Ukraine	-	-	-	-	-	-	-	-
Non-specified/others	673	-	-	-	-	-	-	-

Denmark**Table 9b. Electricity exports by destination (GWh)**

	1974	1990	2000	2005	2010	2012	2013	2014
Total exports	756	4925	7752	11574	11734	10706	10377	9847
Total to OECD	-	4925	7752	11574	11734	10706	10377	9847
Austria	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-
Canada	-	-	-	-	-	-	-	-
Czech Republic	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-
Germany	-	4699	5993	10394	2700	8443	3347	4649
Greece	-	-	-	-	-	-	-	-
Hungary	-	-	-	-	-	-	-	-
Ireland	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-
Luxembourg	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-
Norway	-	7	143	468	4049	673	2840	1453
Poland	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-
Slovak Republic	-	-	-	-	-	-	-	-
Slovenia	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-
Sweden	-	219	1616	712	4985	1590	4190	3745
Switzerland	-	-	-	-	-	-	-	-
Turkey	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-
United States	-	-	-	-	-	-	-	-
Total to non-OECD	-	-	-	-	-	-	-	-
Albania	-	-	-	-	-	-	-	-
Azerbaijan	-	-	-	-	-	-	-	-
Belarus	-	-	-	-	-	-	-	-
Bulgaria	-	-	-	-	-	-	-	-
Croatia	-	-	-	-	-	-	-	-
F.Y.R. of Macedonia	-	-	-	-	-	-	-	-
Georgia	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-
Romania	-	-	-	-	-	-	-	-
Russian Federation	-	-	-	-	-	-	-	-
Serbia	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-
Turkmenistan	-	-	-	-	-	-	-	-
Ukraine	-	-	-	-	-	-	-	-
Non-specified/others	756	-	-	-	-	-	-	-

Denmark**Table 10a. Share of electricity in total final consumption (%)**

	1974	1990	2000	2005	2010	2012	2013	2014
Share of total final consumption	9.8	18.5	19.6	19.3	18.4	19.6	19.9	20.5
Industry	13.9	27.0	29.4	31.0	30.4	32.4	33.6	33.6
Iron and steel	12.8	48.2	51.3	46.8	38.3	44.1	44.3	44.7
Chem. and petrochemical	26.2	36.8	41.8	46.7	41.8	43.5	43.6	43.1
Non-ferrous metals	-	-	-	-	-	-	-	-
Non-metallic minerals	6.9	12.4	12.4	13.0	14.2	13.8	14.4	13.9
Transport equipment	23.3	54.8	47.2	42.0	47.2	52.3	53.0	53.2
Machinery	19.0	45.3	43.1	45.4	41.8	48.4	50.9	53.5
Mining and quarrying	-	10.2	7.9	6.4	7.6	12.3	13.3	14.4
Food and tobacco	9.9	23.2	27.5	30.6	29.3	33.4	34.7	34.5
Paper, pulp and printing	17.7	28.6	41.7	39.1	29.9	35.0	35.8	35.7
Wood and wood products	14.5	17.4	22.4	32.5	22.3	26.0	29.3	31.0
Construction	100.0	16.9	16.0	15.7	19.1	20.2	19.8	20.0
Textile and leather	17.7	26.4	32.7	43.7	48.5	53.6	54.4	54.5
Non specified/other	28.7	45.9	48.1	51.5	53.7	53.3	56.2	58.1
Transport	0.3	0.5	0.7	0.7	0.8	0.8	0.8	0.8
Rail Transport	6.9	15.5	29.0	30.3	30.7	29.2	29.5	28.9
Pipeline Transport	-	-	-	-	-	-	-	-
Road	-	-	-	-	-	-	-	-
Transport Non Specified	-	-	-	-	-	-	-	-
Other sectors	12.7	25.2	27.3	26.8	25.1	26.9	27.1	29.1
Commercial & publ. serv.	92.9	41.5	46.5	45.0	43.8	45.6	45.1	48.0
Residential	9.0	20.8	21.1	20.2	18.2	19.8	20.3	22.0
Agriculture	8.3	19.8	22.6	24.0	22.6	22.9	23.7	24.5
Fishing	-	-	-	-	-	-	-	-
Sector non specified	23.0	-	-	-	-	-	-	-

Table 10b. Share of heat in total final consumption (%)

	1974	1990	2000	2005	2010	2012	2013	2014
Share of total final consumption	-	13.3	15.8	16.2	19.0	18.8	18.9	17.8
Industry	-	2.7	5.5	5.3	4.6	5.3	4.7	3.8
Iron and steel	-	4.9	9.9	8.4	6.1	7.5	6.4	5.3
Chem. and petrochemical	-	3.8	8.0	8.3	6.7	7.4	6.3	5.1
Non-ferrous metals	-	-	-	-	-	-	-	-
Non-metallic minerals	-	1.3	2.4	2.3	2.3	2.4	2.1	1.6
Transport equipment	-	5.6	9.0	7.5	7.5	8.8	7.6	6.2
Machinery	-	4.6	8.3	8.1	6.7	8.2	7.4	6.3
Mining and quarrying	-	1.0	1.5	1.2	1.2	2.1	1.9	1.7
Food and tobacco	-	2.4	5.3	5.5	4.7	5.7	5.0	4.1
Paper, pulp and printing	-	2.9	8.0	7.0	4.8	6.0	5.2	4.2
Wood and wood products	-	1.8	4.3	5.8	3.6	4.4	4.2	3.7
Construction	-	-	-	-	-	-	-	-
Textile and leather	-	2.7	6.3	7.8	7.8	9.2	7.8	6.5
Non specified/other	-	4.7	9.2	9.2	8.6	9.1	8.1	6.8
Transport	-	-	-	-	-	-	-	-
Other sectors	-	25.0	30.0	31.0	34.4	34.5	34.4	33.9
Commercial & publ. serv.	-	29.2	34.3	35.3	39.9	38.7	38.8	37.8
Residential	-	28.4	34.1	34.1	37.3	38.0	37.8	37.5
Agriculture	-	6.1	6.1	6.9	6.5	5.7	5.7	6.0
Fishing	-	-	-	-	-	-	-	-
Sector non specified	-	-	-	-	-	-	-	-

Source: IEA/OECD World Energy Balances.

Estonia

Figure 1. Total final consumption by fuel

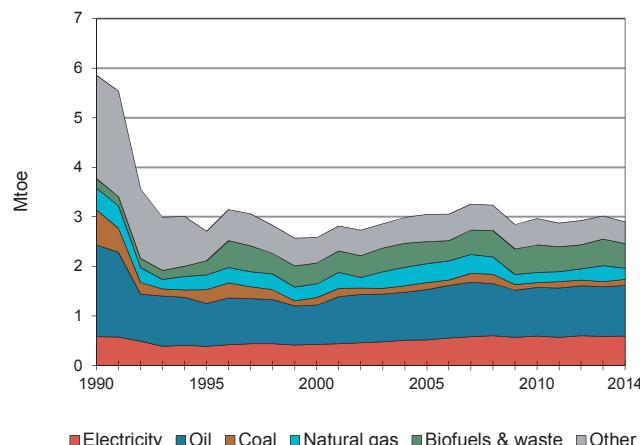


Figure 2. Electricity generation by fuel

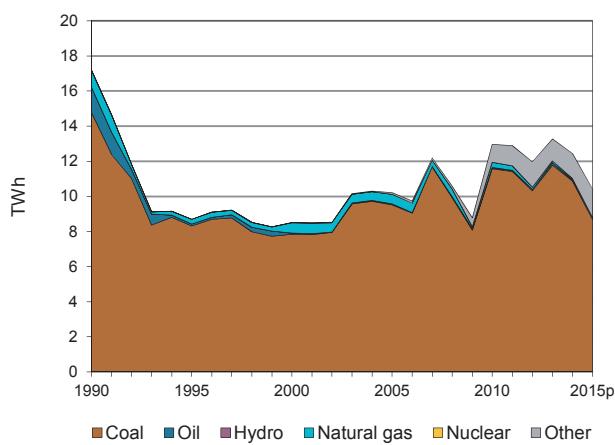


Figure 3. Electricity consumption by sector

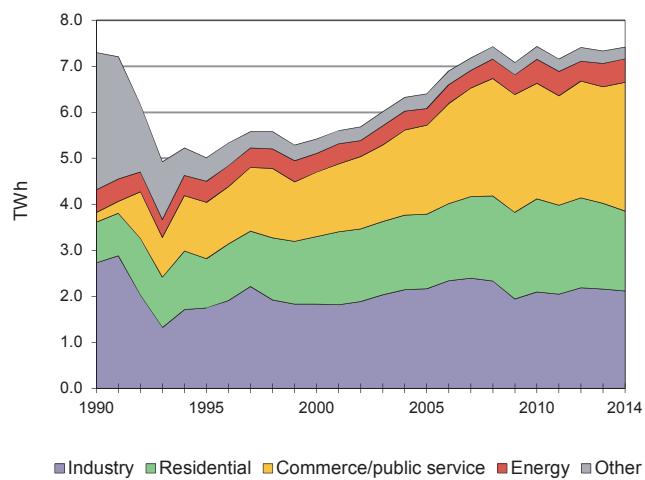


Figure 4. Electricity indicators

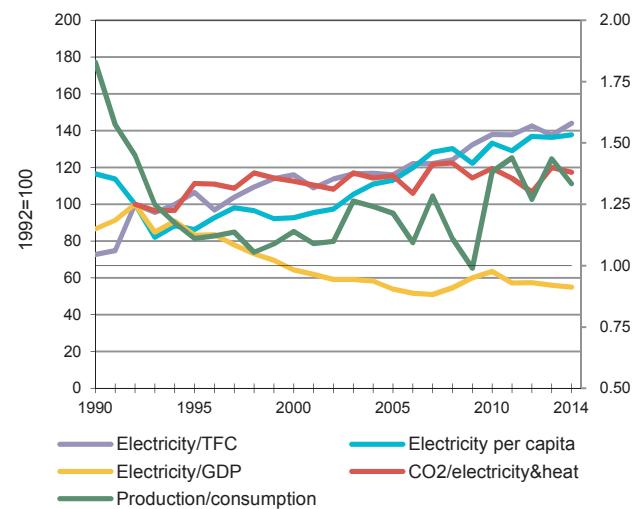
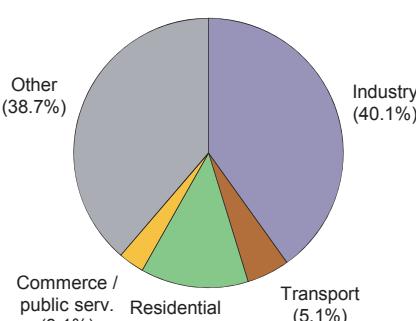
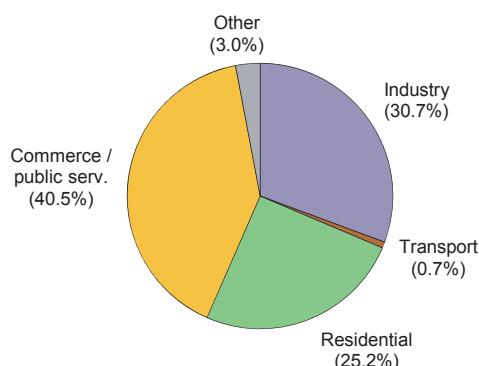


Figure 5. Total final electricity consumption by sector

1990



2014



Estonia**Table 1. Energy consumption, GDP and population**

	1974	1990	2000	2010	2013	2014	2015p	74-00	00-15
TPES (Mtoe)	..	9.78	4.71	5.62	6.09	6.04	5.49	..	1.0
GDP (billion 2005 USD)	..	14.93	14.10	19.51	22.42	23.07	23.32	..	3.4
TPES/GDP ¹	..	0.66	0.33	0.29	0.27	0.26	0.24	..	-2.3
Population (millions)	..	1.59	1.40	1.33	1.32	1.32	1.32	..	-0.4
TPES/population ²	..	6.16	3.37	4.22	4.62	4.59	4.17	..	1.4
TPES/GDP (2005 = 100)	..	250	127	110	104	100	90	..	-2.3
Ele.TFC/GDP(2005=100) ³	..	150	117	116	100	98
Ele.TFC/population ⁴	..	4289	3581	5184	5168	5250
Elec. generated (TWh) ⁵	..	17.18	8.51	12.96	13.28	12.45	10.42	..	1.4

Source: IEA/OECD *World Energy Balances* and OECD *Main Economic Indicators*.**Table 2. Total primary energy supply (TPES) by source**

	1974	1990	2000	2010	2013	2014	2015p	74-00	00-15
TPES (Mtoe)	..	9.78	4.71	5.62	6.09	6.04	5.49	..	1.0
Coal	..	6.13	2.97	3.92	4.43	4.51	3.89	..	1.8
Oil	..	2.84	0.65	0.57	0.47	0.41	0.27	..	-5.6
Natural gas	..	1.22	0.66	0.56	0.55	0.44	0.39	..	-3.5
Biofuels & waste	..	0.19	0.51	0.82	0.91	0.87	0.96	..	4.3
Nuclear	..	-	-	-	-	-	-	..	-
Geothermal	..	-	-	-	-	-	-	..	-
Solar, wind, tide ⁶	..	-	-	0.02	0.05	0.05	0.06	..	-
Hydro	..	-	0.00	0.00	0.00	0.00	0.00	..	11.9
Net electricity imports ⁷	..	-0.60	-0.08	-0.28	-0.31	-0.24	-0.08	..	-0.0
Heat	..	-	-	-	-	-	-	..	-

Source: IEA/OECD *World Energy Balances*.

1. In units of toe/2005 thousand US dollars.
2. In units of toe/per capita.
3. Ele.TFC = electricity total final consumption.
4. In units of kWh/per capita.
5. Electricity generated = gross production - amount of electricity produced in pumped storage plants.
6. Includes wave, ocean and other (e.g. fuel cells).
7. Net Imports = total imports - total exports

Estonia**Table 3a. Summary electricity production and consumption¹ (TWh)**

	1974	1990	2000	2005	2010	2013	2014	2015e
Gross production	..	17.18	8.51	10.21	12.96	13.28	12.45	10.42
- Own use by power plant	..	1.73	0.92	1.09	1.23	1.45	1.43	-
Net production	..	15.45	7.59	9.11	11.73	11.82	11.01	-
- Used for heat pumps	..	-	-	-	-	-	-	-
- Used for electric boilers	..	-	-	-	-	-	-	-
- Used for pumped storage	..	-	-	-	-	-	-	-
+ Imports	..	1.48	0.37	0.35	1.10	2.71	3.73	5.45
- Exports	..	8.48	1.30	1.95	4.35	6.30	6.48	6.38
Electrical energy supplied	..	8.45	6.66	7.51	8.48	8.24	8.26	..
- Transmission & distr. losses	..	1.15	1.24	1.10	1.05	0.90	0.84	..
- Statistical difference	..	-	-	-	-	-	-	..
Total consumption	..	7.30	5.42	6.40	7.43	7.33	7.42	..
Energy industry consumption²	..	0.49	0.41	0.36	0.52	0.51	0.51	..
Coal Mines	..	0.37	0.21	0.21	0.22	0.23	0.22	..
Oil + Gas Extraction	..	-	-	-	-	-	-	..
Patent Fuel Plants	..	-	-	-	-	-	-	..
Coke Ovens	..	-	-	-	-	-	-	..
BKB plants	..	0.05	0.03	0.02	0.02	0.01	0.01	..
Gas Works	..	-	-	-	-	-	-	..
Blast Furnaces	..	-	-	-	-	-	-	..
Oil Refineries	..	-	-	-	-	-	-	..
Nuclear Industry	..	-	-	-	-	-	-	..
Coal Liquefaction Plants	..	-	0.06	0.07	0.08	0.17	0.20	..
LNG/Regasification Plants	..	-	-	-	-	-	-	..
Energy - Non Specified	..	0.07	0.11	0.07	0.20	0.10	0.08	..
Final consumption	..	6.81	5.02	6.04	6.91	6.82	6.91	..
Industry	..	2.73	1.83	2.17	2.10	2.16	2.12	..
Iron and steel	..	-	0.00	0.01	0.00	0.00	0.00	..
Chem. and petrochemical	..	0.94	0.31	0.36	0.25	0.25	0.15	..
Non-ferrous metals	..	-	0.00	0.01	0.01	0.01	0.01	..
Non-metallic minerals	..	-	0.15	0.21	0.21	0.19	0.21	..
Transport equipment	..	-	0.05	0.05	0.04	0.07	0.06	..
Machinery	..	0.30	0.13	0.21	0.29	0.26	0.25	..
Mining and quarrying	..	-	0.01	0.02	0.02	0.02	0.02	..
Food and tobacco	..	0.27	0.27	0.30	0.28	0.29	0.32	..
Paper, pulp and printing	..	0.14	0.10	0.14	0.35	0.36	0.37	..
Wood and wood products	..	0.09	0.22	0.36	0.28	0.34	0.37	..
Construction	..	0.08	0.10	0.10	0.06	0.08	0.08	..
Textile and leather	..	0.34	0.30	0.20	0.12	0.11	0.12	..
Non specified/other	..	0.58	0.18	0.22	0.18	0.18	0.18	..
Transport	..	0.35	0.09	0.10	0.09	0.06	0.05	..
Rail Transport	..	0.17	0.02	0.01	0.01	0.02	0.01	..
Pipeline Transport	..	-	-	-	-	-	-	..
Road	..	-	-	-	0.02	0.02	0.02	..
Transport Non Specified	..	0.17	0.08	0.09	0.05	0.03	0.03	..
Commercial & publ. serv.	..	0.88	1.47	1.62	2.02	1.87	1.74	..
Residential	..	0.21	1.40	1.93	2.51	2.53	2.80	..
Agriculture	..	2.01	0.22	0.21	0.19	0.20	0.20	..
Fishing	..	-	-	0.01	0.00	0.01	0.01	..
Sector non specified	..	0.63	-	-	-	-	-	..

1. Electricity generation from main activity producer power plants and autoproducers .

2. Energy industry consumption = electricity consumed by transformation industries for heating, traction and lighting purposes;

excludes own use by power plant and electricity used for heat pumps, electric boilers and pumped storage.

Estonia**Table 3b. Summary heat production and consumption¹ (TJ)**

	1974	1990	2000	2005	2010	2013	2014	2015e
Gross production	..	103826	27031	26777	25548	23028	21812	21205
- Own use by power plant	..	-	-	-	-	-	-	-
Net production	..	103826	27031	26777	25548	23028	21812	-
- Used for electricity production	..	-	-	-	-	-	-	-
+ Imports	..	-	-	-	-	-	-	-
- Exports	..	-	-	-	-	-	-	-
Heat energy supplied	..	103826	27031	26777	25548	23028	21812	..
- Transmission & distr. losses	..	4596	4660	3508	2808	3271	3234	..
- Statistical difference	..	11901	469	-	-	-	-	..
Total consumption	..	87329	21902	23269	22740	19757	18578	..
Energy industry consumption²	..	-	488	350	486	245	200	..
Coal Mines	..	-	52	31	54	48	-	..
Oil + Gas Extraction	..	-	436	-	-	-	-	..
Patent Fuel Plants	..	-	-	-	-	-	-	..
Coke Ovens	..	-	-	-	-	-	-	..
BKB plants	..	-	-	-	-	-	-	..
Gas Works	..	-	-	-	-	-	-	..
Blast Furnaces	..	-	-	-	-	-	-	..
Oil Refineries	..	-	-	-	-	-	-	..
Nuclear Industry	..	-	-	-	-	-	-	..
Coal Liquefaction Plants	..	-	-	319	432	197	200	..
LNG/Regasification Plants	..	-	-	-	-	-	-	..
Energy - Non Specified	..	-	-	-	-	-	-	..
Final consumption	..	87329	21414	22919	22254	19512	18378	..
Industry	..	42745	1832	2498	1823	1378	1332	..
Iron and steel	..	-	1	2	1	-	-	..
Chem. and petrochemical	..	-	664	755	633	638	477	..
Non-ferrous metals	..	-	-	-	4	1	-	..
Non-metallic minerals	..	-	37	140	44	47	53	..
Transport equipment	..	-	4	21	63	74	80	..
Machinery	..	-	131	248	218	295	328	..
Mining and quarrying	..	-	-	-	5	3	2	..
Food and tobacco	..	-	40	261	196	111	114	..
Paper, pulp and printing	..	-	59	76	26	20	25	..
Wood and wood products	..	-	48	75	76	40	46	..
Construction	..	-	93	80	90	61	82	..
Textile and leather	..	-	663	559	227	48	63	..
Non specified/other	..	42745	92	281	240	40	62	..
Transport	..	-	-	-	-	-	-	..
Commercial & publ. serv.	..	6839	3774	4524	5389	4270	4504	..
Residential	..	21373	15755	15801	14972	13820	12492	..
Agriculture	..	12824	53	96	70	44	50	..
Fishing	..	-	-	-	-	-	-	..
Sector non specified	..	3548	-	-	-	-	-	..

1. Heat generation from main activity producer power plants and autoproducers.

2. Energy industry consumption = electricity consumed by transformation industries for heating, traction and lighting purposes;

excludes own use by power plant and electricity used for heat pumps, electric boilers and pumped storage.

Estonia

Table 4a. Gross electricity production by source (TWh)

	1974	1990	2000	2010	2013	2014	2015e	74-00	00-15
Total plants gross production¹	-	17.18	8.51	12.96	13.28	12.45	10.42	-	1.4
Nuclear	-	-	-	-	-	-	-	-	-
Hydro	-	-	0.01	0.03	0.03	0.03	0.03	-	11.9
- Of which pumped storage	-	-	-	-	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-	-	-
Solar	-	-	-	-	-	-	-	-	-
Wind	-	-	-	0.28	0.53	0.60	0.72	-	-
Combustible fuels	-	17.18	8.51	12.66	12.72	11.82	9.68	-	0.9
- Coal	..	14.78	7.84	11.58	11.77	10.87	8.67	..	0.7
- Oil	..	1.44	0.06	0.04	0.13	0.04	0.06	..	0.1
- Natural gas	..	0.96	0.60	0.30	0.09	0.07	0.06	..	-14.0
- Biofuels & waste	..	-	0.01	0.74	0.73	0.83	0.89	..	32.5
Other ²	-	-	-	-	-	-	-	-	-
Of which autoproducers	-	0.15	0.13	0.11	0.09	0.06	..	-	..
Nuclear	-	-	-	-	-	-	..	-	..
Hydro	-	-	-	-	-	0.00	..	-	..
- Of which pumped storage	-	-	-	-	-	-	..	-	..
Geothermal	-	-	-	-	-	-	..	-	..
Solar	-	-	-	-	-	-	..	-	..
Wind	-	-	-	0.00	0.01	0.01	..	-	..
Combustible fuels	-	0.15	0.13	0.11	0.09	0.04	..	-	..
- Coal	..	-	0.05	0.04	0.04	-
- Oil	..	0.03	0.00	0.00	-	-
- Natural gas	..	0.13	0.06	0.04	0.02	0.02
- Biofuels & waste	..	-	0.01	0.02	0.02	0.03
Other ²	-	-	-	-	-	-	..	-	..

Table 4b. Gross heat production by source (PJ)

	1974	1990	2000	2010	2013	2014	2015e	74-00	00-15
Total plants heat generation³	-	103.83	27.03	25.55	23.03	21.81	21.21	-	-1.6
Nuclear	-	-	-	-	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-	-	-
Combustible fuels	-	103.83	26.96	25.55	23.03	21.81	21.21	-	-1.6
- Coal	..	46.12	8.35	6.95	6.21	5.75	4.27	..	-4.4
- Oil	..	31.45	3.91	1.75	0.55	0.43	0.63	..	-11.5
- Natural gas	..	26.26	12.02	10.89	7.48	7.07	5.76	..	-4.8
- Biofuels & waste	..	-	2.68	5.96	8.79	8.57	10.54	..	9.6
Chemical processes	-	-	-	-	-	-	-	-	-
Heat pumps	-	-	-	-	-	-	-	-	-
Electric boilers	-	-	0.07	-	-	-	-	-	-
Other sources	-	-	-	-	-	-	-	-	-
Of which Autoproducers	-	2.33	3.63	2.04	1.58	1.29	..	-	..
Nuclear	-	-	-	-	-	-	..	-	..
Geothermal	-	-	-	-	-	-	..	-	..
Combustible fuels	-	2.33	3.57	2.04	1.58	1.29	..	-	..
- Coal	..	-	0.51	0.42	0.40	0.15
- Oil	..	2.06	1.15	0.13	0.02	-
- Natural gas	..	0.27	1.57	1.12	0.61	0.70
- Biofuels & waste	..	-	0.34	0.37	0.55	0.44
Chemical processes	-	-	-	-	-	-	..	-	..
Heat pumps	-	-	-	-	-	-	..	-	..
Electric boilers	-	-	0.05	-	-	-	..	-	..
Other sources	-	-	-	-	-	-	..	-	..

1. Electricity generated from main activity producer power plants and autoproducers.

2. Includes wave, ocean and other sources (e.g. fuel cells, electricity from chemical heat).

3. Total heat generation = gross production of heat from main activity producer + heat sold in autoproducers.

Estonia**Table 5. Net electricity production by autoproducers (GWh)**

	1974	1990	2000	2010	2012	2013	2014	74-00	00-14
Total	..	154	109	90	86	90	52	..	-5.1
Total energy	..	-	55	34	39	44	17	..	-8.0
Coal mines	..	-	-	-	-	-	-	..	-
Oil and gas extraction	..	-	22	-	-	-	-	..	-
Patent fuel plants	..	-	-	-	-	-	-	..	-
Coke ovens	..	-	18	-	-	-	-	..	-
Gas works	..	-	-	-	-	-	-	..	-
BKB	..	-	-	-	-	-	-	..	-
Oil refineries	..	-	15	34	39	44	17	..	0.9
Energy non specified/other	..	-	-	-	-	-	-	..	-
Total industry	..	154	36	41	32	34	26	..	-2.3
Iron and steel	..	-	-	-	-	-	-	..	-
Chemical and petrochemical	..	154	-	-	-	-	-	..	-
Non-ferrous metals	..	-	-	-	-	-	-	..	-
Non-metallic minerals	..	-	9	1	5	-	-	..	-
Transport equipment	..	-	-	-	-	-	-	..	-
Machinery	..	-	-	-	-	-	-	..	-
Mining and quarrying	..	-	-	-	-	-	-	..	-
Food and tobacco	..	-	-	-	-	-	-	..	-
Pulp and printing	..	-	27	40	27	34	26	..	-0.3
Wood and wood products	..	-	-	-	-	-	-	..	-
Construction	..	-	-	-	-	-	-	..	-
Textile and leather	..	-	-	-	-	-	-	..	-
Non specified/other industries	..	-	-	-	-	-	-	..	-
Total transport	..	-	-	-	-	-	-	..	-
Rail	..	-	-	-	-	-	-	..	-
Pipeline	..	-	-	-	-	-	-	..	-
Transport non specified	..	-	-	-	-	-	-	..	-
Other	..	-	18	15	15	12	9	..	-4.8
Commerce and pub. services	..	-	8	1	-	-	-	..	-
Residential	..	-	-	-	-	-	-	..	-
Agriculture	..	-	10	14	15	12	9	..	-0.7
Fishing	..	-	-	-	-	-	-	..	-
Sector non specified	..	-	-	-	-	-	-	..	-

Notes: Data reported in this table prior to 1990 may refer to combustible fuels only.

Estonia**Table 6a. Electricity production from combustible fuels in electricity plants¹**

	1990	2000	2005	2010	2012	2013	2014	90-00	00-14
Steam coal									
Fuel input (1000 t)	-	-	-	-	-	2	1	-	-
Fuel input (TJ)	-	-	-	-	-	66	25	-	-
Electricity production (GWh)	-	-	-	-	-	13	5	-	-
Lignite									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
Coal manufactured gases²									
Fuel input (TJ)	-	1140	1655	3963	3368	1962	3200	-	7.7
Electricity production (GWh)	-	125	167	327	426	200	446	-	9.5
Other coal products³									
Fuel input (1000 t)	-	9147	10429	12770	11892	14698	14577	-	3.4
Fuel input (TJ)	-	76594	94532	118816	98710	120525	110523	-	2.7
Electricity production (GWh)	-	7128	8889	10729	9469	11091	10022	-	2.5
Oil and petroleum products									
Fuel input (1000 t)	-	9	8	10	15	22	11	-	1.4
Fuel input (TJ)	-	365	317	399	578	900	434	-	1.2
Electricity production (GWh)	-	51	29	38	55	131	41	-	-1.5
Natural gas²									
Fuel input (TJ)	-	-	8	-	-	-	-	-	-
Electricity production (GWh)	-	-	1	-	-	-	-	-	-
Solid biofuels									
Fuel input (TJ)	-	2	16	1303	1800	150	313	-	43.5
Electricity production (GWh)	-	-	2	231	374	30	61	-	-
Industrial waste									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
Municipal waste									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
Biogases and liquid biofuels									
Fuel input (TJ)	-	-	16	-	-	-	-	-	-
Electricity production (GWh)	-	-	2	-	-	-	-	-	-
Total combustible fuels									
Electricity production (GWh)	-	7304	9090	11325	10324	11465	10575	-	2.7

1. Excludes CHP plants.

2. Coal manufactured gases and natural gas are expressed on a gross calorific value basis.

3. Includes Coking coal as well as peat and peat products, patent fuels, BKB and shale oil

Estonia**Table 6b. Electricity and heat produced for sale from combustible fuels
in combined heat and power plants (CHP plants)**

	1990	2000	2005	2010	2012	2013	2014	90-00	00-14
Steam coal									
Fuel input (1000 t)	-	-	-	-	-	-	1	-	-
Fuel input (TJ)	-	-	-	-	-	-	18	-	-
Electricity production (GWh)	-	-	-	-	-	-	1	-	-
CHP Heat production (TJ)	-	-	-	-	-	-	11	-	-
Lignite									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
CHP Heat production (TJ)	-	-	-	-	-	-	-	-	-
Coal manufactured gases¹									
Fuel input (TJ)	3870	1292	1946	1980	1498	1937	2028	-10.4	3.3
Electricity production (GWh)	75	36	49	82	80	84	65	-7.1	4.3
CHP Heat production (TJ)	2654	826	1308	1261	916	1229	1325	-11.0	3.4
Other coal products²									
Fuel input (1000 t)	22565	1679	1198	892	748	825	718	-22.9	-5.9
Fuel input (TJ)	188950	14109	10417	8402	6992	6925	6397	-22.9	-5.5
Electricity production (GWh)	14709	554	413	438	331	386	333	-28.0	-3.6
CHP Heat production (TJ)	38636	5995	4596	4209	3469	3374	3349	-17.0	-4.1
Petroleum products									
Fuel input (1000 t)	220	3	2	2	2	1	1	-34.9	-7.5
Fuel input (TJ)	8843	121	82	70	63	23	33	-34.9	-8.9
Electricity production (GWh)	1440	5	3	3	3	1	2	-43.2	-6.3
CHP Heat production (TJ)	1650	53	47	38	39	13	18	-29.1	-7.4
Natural gas¹									
Fuel input (TJ)	12734	8061	6964	3771	1411	779	564	-4.5	-17.3
Electricity production (GWh)	957	596	543	303	126	89	69	-4.6	-14.3
CHP Heat production (TJ)	6413	4102	3500	1722	655	247	199	-4.4	-19.4
Solid Biofuels									
Fuel input (TJ)	-	85	181	6035	8178	8958	9627	-	40.2
Electricity production (GWh)	-	13	19	499	611	615	670	-	32.5
CHP Heat production (TJ)	-	-	33	3183	4530	4992	5557	-	-
Industrial waste									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
CHP Heat production (TJ)	-	-	-	-	-	-	-	-	-
Municipal waste									
Fuel input (TJ)	-	-	-	-	-	1336	1455	-	-
Electricity production (GWh)	-	-	-	-	-	60	73	-	-
CHP Heat production (TJ)	-	-	-	-	-	654	893	-	-
Biogases and liquid biofuels									
Fuel input (TJ)	-	-	104	111	92	200	191	-	-
Electricity production (GWh)	-	-	12	10	16	20	27	-	-
CHP Heat production (TJ)	-	-	38	61	5	65	56	-	-
Total combustible fuels									
Electricity production (GWh)	17181	1204	1039	1335	1167	1255	1240	-23.3	0.2
CHP Heat production (TJ)	49353	10976	9522	10474	9614	10574	11408	-14.0	0.3

1. Coal manufactured gases and natural gas are expressed on a gross calorific value basis.

2. Includes Coking coal as well as peat and peat products, patent fuels, BKB and shale oil

Estonia**Table 6c. Heat produced for sale from combustible fuels in heat plants¹**

	1990	2000	2005	2010	2012	2013	2014	90-00	00-14
Steam coal									
Fuel input (1000 t)	171	11	4	2	1	1	1	-24.0	-15.7
Fuel input (TJ)	4181	269	118	37	13	27	14	-24.0	-19.0
Heat production (TJ)	3345	181	67	24	8	19	10	-25.3	-18.7
Lignite									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Heat production (TJ)	-	-	-	-	-	-	-	-	-
Coal manufactured gases²									
Fuel input (TJ)	-	875	109	827	1108	1650	920	-	0.4
Heat production (TJ)	-	636	75	670	786	1147	608	-	-0.3
Other coal products³									
Fuel input (1000 t)	333	110	114	96	73	55	55	-10.5	-4.8
Fuel input (TJ)	2788	1030	1216	987	723	564	560	-9.5	-4.3
Heat production (TJ)	1480	710	828	782	530	443	443	-7.1	-3.3
Petroleum products									
Fuel input (1000 t)	913	120	74	53	34	16	13	-18.4	-14.7
Fuel input (TJ)	36730	4861	2712	2099	1358	620	501	-18.3	-15.0
Heat production (TJ)	29798	3861	2350	1715	1101	533	411	-18.5	-14.8
Natural gas²									
Fuel input (TJ)	23636	9460	12241	12230	12900	9850	8997	-8.8	-0.4
Heat production (TJ)	19850	7914	10151	9171	9477	7229	6873	-8.8	-1.0
Solid biofuels									
Fuel input (TJ)	-	3487	5221	3803	4028	4254	3270	-	-0.5
Heat production (TJ)	-	2620	3779	2709	2957	3083	2059	-	-1.7
Industrial waste									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Heat production (TJ)	-	-	-	-	-	-	-	-	-
Municipal waste									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Heat production (TJ)	-	-	-	-	-	-	-	-	-
Biogases and liquid biofuels									
Fuel input (TJ)	-	76	7	4	-	-	-	-	-
Heat production (TJ)	-	61	5	3	-	-	-	-	-
Total combustible fuels									
Heat production (TJ)	54473	15983	17255	15074	14859	12454	10404	-11.5	-3.0

1. Excludes CHP plants

2. Coal manufactured gases and natural gas are expressed on a gross calorific value basis.

3. Includes Coking coal as well as peat and peat products, patent fuels, BKB and shale oil

Estonia**Table 7. Net maximum electricity generating capacity on 31 December (GW)**

	1974	1990	2000	2005	2010	2012	2013	2014
Total capacity¹	..	-	2.80	2.56	2.75	2.92	2.91	3.10
Nuclear	..	-	-	-	-	-	-	-
Hydro	..	-	-	0.01	0.01	0.01	0.01	0.01
of which: pumped storage	..	-	-	-	-	-	-	-
Geothermal	..	-	-	-	-	-	-	-
Solar PV	..	-	-	-	-	-	-	-
Solar thermal	..	-	-	-	-	-	-	-
Tide, wave, ocean	..	-	-	-	-	-	-	-
Wind	..	-	-	0.03	0.11	0.27	0.25	0.34
Other (e.g. fuel cells)	..	-	-	-	-	-	-	-
Combustible fuels	2.80	2.52	2.64	2.65	2.65	2.75
of which ⁽²⁾ :								
<i>Single-fired:</i>								
Coal and Coal products	..	-	-	0.01	-	-	-	-
Liquid fuels	..	-	-	-	-	-	-	-
Natural gas	..	-	0.01	0.01	-	0.25	0.25	0.25
Biofuels & waste	..	-	-	-	-	0.02	0.02	0.02
<i>Multi-fired:</i>								
Solid / liquid	..	-	-	-	0.01	0.02	0.02	0.02
Solid / natural gas	..	-	0.18	0.17	0.33	0.06	0.05	0.05
Liquid / natural gas	..	-	-	-	-	-	-	-
Solid / liquid / gas	..	-	2.61	2.33	2.30	2.31	2.31	2.41
<u>Type of generation</u>								
Steam	..	-	2.79	2.51	2.62	2.62	2.63	2.72
Internal combustion	..	-	0.01	0.02	0.02	0.03	0.03	0.03
Gas turbine	..	-	-	-	-	-	-	-
Combined cycle	..	-	-	-	-	-	-	-
Other	..	-	-	-	-	-	-	-
<u>Peak load</u>	1.93	1.79	1.75	1.77	1.56
Of which Autoproducers	..	-	0.03	0.03	0.02	0.02	0.02	0.02
Nuclear	..	-	-	-	-	-	-	-
Hydro	..	-	-	-	-	-	-	-
of which: pumped storage	..	-	-	-	-	-	-	-
Geothermal	..	-	-	-	-	-	-	-
Solar PV	..	-	-	-	-	-	-	-
Solar thermal	..	-	-	-	-	-	-	-
Tide, wave, ocean	..	-	-	-	-	-	-	-
Wind	..	-	-	-	-	-	-	0.01
Other (e.g. fuel cells)	..	-	-	-	-	-	-	-
Combustible fuels	0.03	0.03	0.02	0.02	0.02	0.02

1. Sum of available capacity figures

2. Breakdown of electrical capacity by type of fuel are shown in the individual country chapters.

Estonia**Table 8. Capacity factors (%)**

	1974	1990	2000	2005	2010	2012	2013	2014
Total plants¹	..	-	34.7	45.5	53.8	46.7	52.1	45.9
Nuclear	..	-	-	-	-	-	-	-
Hydro	..	-	28.5	50.2	51.4	59.9	37.1	61.6
<i>of which: pumped storage</i>	..	-	-	-	-	-	-	-
Geothermal	..	-	-	-	-	-	-	-
Solar PV	..	-	-	-	-	-	-	-
Solar thermal	..	-	-	-	-	-	-	-
Tide, wave, ocean	..	-	-	-	-	-	-	-
Wind	..	-	-	19.9	29.3	18.6	24.4	20.2
Other (e.g. fuel cells)	..	-	-	-	-	-	-	-
Combustible fuels	34.7	45.8	54.8	49.5	54.7	49.1
Of which autoproducers	..	-	54.1	53.2	55.5	58.9	57.7	27.1
Nuclear	..	-	-	-	-	-	-	-
Hydro	..	-	-	-	-	-	-	-
<i>of which: pumped storage</i>	..	-	-	-	-	-	-	-
Geothermal	..	-	-	-	-	-	-	-
Solar PV	..	-	-	-	-	-	-	-
Solar thermal	..	-	-	-	-	-	-	-
Tide, wave, ocean	..	-	-	-	-	-	-	-
Wind	..	-	-	11.4	11.4	-	57.1	22.8
Other (e.g. fuel cells)	..	-	-	-	-	-	-	-
Combustible fuels	54.1	54.5	57.6	58.3	57.8	28.2

1. The capacity factor is defined as: the annual gross electricity generation (in GWh) divided by the net capacity (in GW) times 365 (days/year) times 24 (hours/day)

Estonia**Table 9a. Electricity imports by origin (GWh)**

	1974	1990	2000	2005	2010	2012	2013	2014
Total imports	..	1475	374	345	1100	2710	2712	3730
Total from OECD	..	-	-	-	264	1611	2377	3622
Austria	..	-	-	-	-	-	-	-
Belgium	..	-	-	-	-	-	-	-
Canada	..	-	-	-	-	-	-	-
Czech Republic	..	-	-	-	-	-	-	-
Denmark	..	-	-	-	-	-	-	-
Estonia	..	-	-	-	-	-	-	-
Finland	..	-	-	-	264	1611	2377	3622
France	..	-	-	-	-	-	-	-
Germany	..	-	-	-	-	-	-	-
Greece	..	-	-	-	-	-	-	-
Hungary	..	-	-	-	-	-	-	-
Ireland	..	-	-	-	-	-	-	-
Italy	..	-	-	-	-	-	-	-
Luxembourg	..	-	-	-	-	-	-	-
Mexico	..	-	-	-	-	-	-	-
Netherlands	..	-	-	-	-	-	-	-
Norway	..	-	-	-	-	-	-	-
Poland	..	-	-	-	-	-	-	-
Portugal	..	-	-	-	-	-	-	-
Slovak Republic	..	-	-	-	-	-	-	-
Slovenia	..	-	-	-	-	-	-	-
Spain	..	-	-	-	-	-	-	-
Sweden	..	-	-	-	-	-	-	-
Switzerland	..	-	-	-	-	-	-	-
Turkey	..	-	-	-	-	-	-	-
United Kingdom	..	-	-	-	-	-	-	-
United States	..	-	-	-	-	-	-	-
Total from non-OECD	..	-	374	345	836	1099	335	108
Albania	..	-	-	-	-	-	-	-
Azerbaijan	..	-	-	-	-	-	-	-
Belarus	..	-	-	-	-	-	-	-
Bulgaria	..	-	-	-	-	-	-	-
Croatia	..	-	-	-	-	-	-	-
F.Y.R. of Macedonia	..	-	-	-	-	-	-	-
Georgia	..	-	-	-	-	-	-	-
Latvia	..	-	236	345	836	1099	335	108
Lithuania	..	-	-	-	-	-	-	-
Romania	..	-	-	-	-	-	-	-
Russian Federation	..	-	138	-	-	-	-	-
Serbia	..	-	-	-	-	-	-	-
Syria	..	-	-	-	-	-	-	-
Turkmenistan	..	-	-	-	-	-	-	-
Ukraine	..	-	-	-	-	-	-	-
Non-specified/others	..	1475	-	-	-	-	-	-

Estonia**Table 9b. Electricity exports by destination (GWh)**

	1974	1990	2000	2005	2010	2012	2013	2014
Total exports	..	8477	1303	1953	4354	4950	6300	6484
Total to OECD	..	-	-	-	1659	428	561	94
Austria	..	-	-	-	-	-	-	-
Belgium	..	-	-	-	-	-	-	-
Canada	..	-	-	-	-	-	-	-
Czech Republic	..	-	-	-	-	-	-	-
Denmark	..	-	-	-	-	-	-	-
Estonia	..	-	-	-	-	-	-	-
Finland	..	-	-	-	1659	428	561	94
France	..	-	-	-	-	-	-	-
Germany	..	-	-	-	-	-	-	-
Greece	..	-	-	-	-	-	-	-
Hungary	..	-	-	-	-	-	-	-
Ireland	..	-	-	-	-	-	-	-
Italy	..	-	-	-	-	-	-	-
Luxembourg	..	-	-	-	-	-	-	-
Mexico	..	-	-	-	-	-	-	-
Netherlands	..	-	-	-	-	-	-	-
Norway	..	-	-	-	-	-	-	-
Poland	..	-	-	-	-	-	-	-
Portugal	..	-	-	-	-	-	-	-
Slovak Republic	..	-	-	-	-	-	-	-
Slovenia	..	-	-	-	-	-	-	-
Spain	..	-	-	-	-	-	-	-
Sweden	..	-	-	-	-	-	-	-
Switzerland	..	-	-	-	-	-	-	-
Turkey	..	-	-	-	-	-	-	-
United Kingdom	..	-	-	-	-	-	-	-
United States	..	-	-	-	-	-	-	-
Total to non-OECD	..	-	1303	1953	2695	4522	5739	6390
Albania	..	-	-	-	-	-	-	-
Azerbaijan	..	-	-	-	-	-	-	-
Belarus	..	-	-	-	-	-	-	-
Bulgaria	..	-	-	-	-	-	-	-
Croatia	..	-	-	-	-	-	-	-
F.Y.R. of Macedonia	..	-	-	-	-	-	-	-
Georgia	..	-	-	-	-	-	-	-
Latvia	..	929	1781	2695	4522	5739	6390	-
Lithuania	..	-	-	-	-	-	-	-
Romania	..	-	-	-	-	-	-	-
Russian Federation	..	374	172	-	-	-	-	-
Serbia	..	-	-	-	-	-	-	-
Syria	..	-	-	-	-	-	-	-
Turkmenistan	..	-	-	-	-	-	-	-
Ukraine	..	-	-	-	-	-	-	-
Non-specified/others	..	8477	-	-	-	-	-	-

Estonia**Table 10a. Share of electricity in total final consumption (%)**

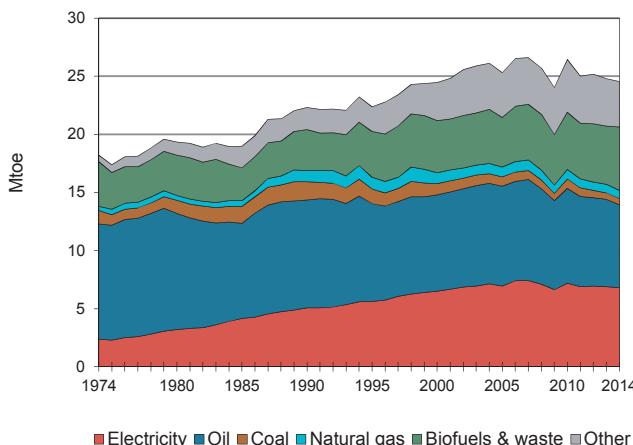
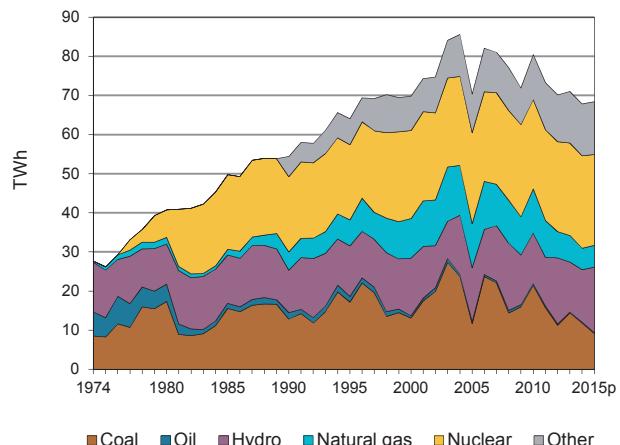
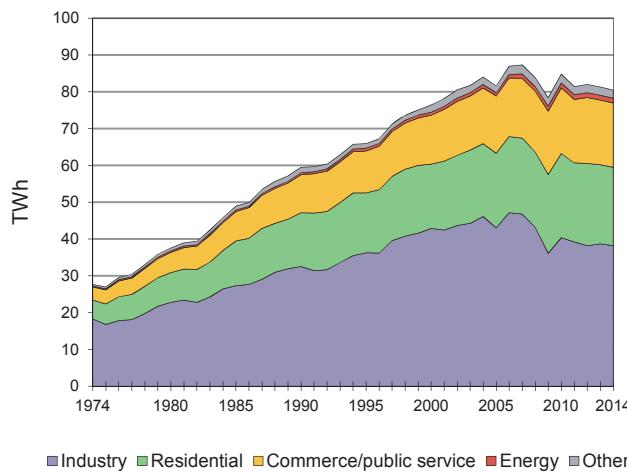
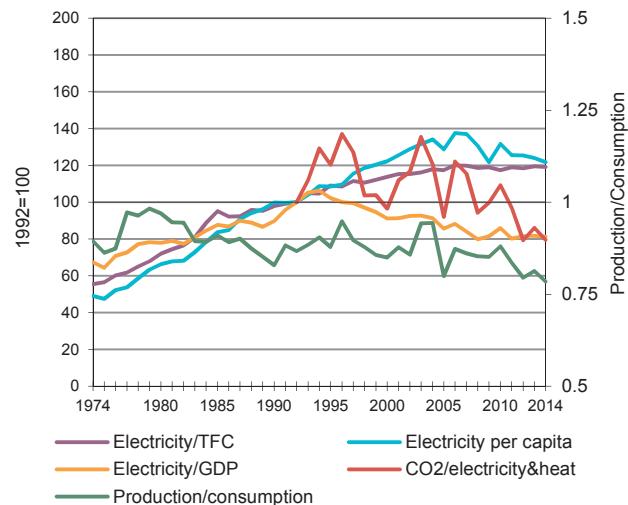
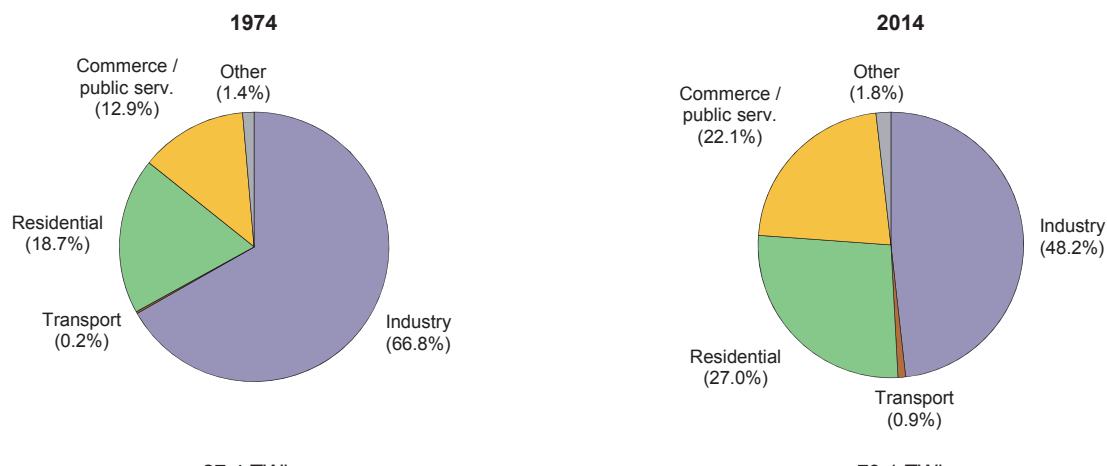
	1974	1990	2000	2005	2010	2012	2013	2014
Share of total final consumption	..	10.0	16.7	17.1	20.1	20.5	19.5	20.5
Industry	..	9.3	27.6	26.0	31.3	32.8	28.8	32.2
Iron and steel	..	-	72.0	42.4	62.8	49.4	49.4	66.7
Chem. and petrochemical	..	36.7	30.2	28.1	43.4	36.6	29.2	42.4
Non-ferrous metals	..	-	100.0	58.3	29.7	23.0	17.7	17.7
Non-metallic minerals	..	-	11.6	13.7	16.3	14.1	9.8	13.0
Transport equipment	..	-	59.0	41.2	46.6	50.2	50.1	50.9
Machinery	..	63.1	57.3	49.0	62.5	56.7	55.6	57.2
Mining and quarrying	..	-	14.6	16.0	14.3	12.1	11.5	13.3
Food and tobacco	..	9.3	26.5	31.7	34.4	45.4	38.6	43.0
Paper, pulp and printing	..	21.4	20.8	37.5	44.8	49.3	50.0	53.2
Wood and wood products	..	8.4	24.6	19.4	20.8	27.3	25.2	25.8
Construction	..	9.6	29.9	18.8	14.6	14.0	14.8	13.8
Textile and leather	..	44.5	50.7	36.7	53.2	64.2	68.4	66.7
Non specified/other	..	3.1	30.9	34.0	33.2	43.6	55.6	58.7
Transport	..	3.6	1.4	1.2	1.0	0.9	0.7	0.6
Rail Transport	..	22.7	3.1	2.7	2.3	3.3	4.7	2.9
Pipeline Transport	..	-	-	-	-	-	-	-
Road	..	-	-	-	0.3	0.3	0.3	0.2
Transport Non Specified	..	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Other sectors	..	14.2	20.9	23.4	26.3	26.9	27.0	27.6
Commercial & publ. serv.	..	5.4	41.8	42.7	50.9	51.4	51.9	52.3
Residential	..	7.6	13.6	15.7	16.9	17.3	17.2	16.8
Agriculture	..	24.3	33.0	17.4	16.8	16.4	15.5	12.8
Fishing	..	-	-	100.0	100.0	100.0	100.0	100.0
Sector non specified	..	26.4	-	-	-	-	-	-

Table 10b. Share of heat in total final consumption (%)

	1974	1990	2000	2005	2010	2012	2013	2014
Share of total final consumption	..	35.6	19.8	18.0	17.9	16.8	15.5	15.1
Industry	..	40.5	7.7	8.3	7.6	6.3	5.1	5.6
Iron and steel	..	-	5.0	4.7	5.8	-	-	-
Chem. and petrochemical	..	-	17.9	16.4	30.3	33.7	20.4	37.2
Non-ferrous metals	..	-	-	-	3.3	0.7	1.0	-
Non-metallic minerals	..	-	0.8	2.6	1.0	1.1	0.7	0.9
Transport equipment	..	-	1.4	5.1	20.4	14.4	14.7	18.5
Machinery	..	-	15.7	16.3	12.9	16.0	17.5	21.0
Mining and quarrying	..	-	-	-	1.3	0.5	0.5	0.4
Food and tobacco	..	-	1.1	7.6	6.7	4.8	4.1	4.3
Paper, pulp and printing	..	-	3.3	5.7	0.9	1.1	0.8	1.0
Wood and wood products	..	-	1.5	1.1	1.6	1.2	0.8	0.9
Construction	..	-	7.6	4.3	5.9	3.4	3.0	4.0
Textile and leather	..	-	31.0	29.2	27.3	14.2	8.2	10.2
Non specified/other	..	64.3	4.3	11.8	12.4	3.4	3.5	5.6
Transport	..	-	-	-	-	-	-	-
Other sectors	..	47.3	36.7	35.3	31.5	30.2	29.6	27.5
Commercial & publ. serv.	..	48.2	31.2	27.8	30.3	26.7	24.3	23.4
Residential	..	51.2	40.6	42.4	34.8	35.0	35.4	33.6
Agriculture	..	43.1	2.2	2.2	1.8	1.5	1.0	0.9
Fishing	..	-	-	-	-	-	-	-
Sector non specified	..	41.3	-	-	-	-	-	-

Source: IEA/OECD World Energy Balances.

Finland

Figure 1. Total final consumption by fuel**Figure 2. Electricity generation by fuel****Figure 3. Electricity consumption by sector****Figure 4. Electricity indicators****Figure 5. Total final electricity consumption by sector**

Finland**Table 1. Energy consumption, GDP and population**

	1974	1990	2000	2010	2013	2014	2015p	74-00	00-15
TPES (Mtoe)	20.56	28.38	32.41	36.63	33.27	33.93	32.46	1.8	0.0
GDP (billion 2005 USD)	103.08	167.12	209.38	247.80	248.65	246.91	248.26	2.8	1.1
TPES/GDP ¹	0.20	0.17	0.15	0.15	0.13	0.14	0.13	-1.0	-1.1
Population (millions)	4.69	4.99	5.18	5.36	5.44	5.46	5.49	0.4	0.4
TPES/population ²	4.38	5.69	6.26	6.83	6.12	6.21	5.92	1.4	-0.4
TPES/GDP (2005 = 100)	138	117	107	102	92	95	90	-1.0	-1.1
Ele.TFC/GDP(2005=100) ³	78	104	107	99	95	94	..	1.2	..
Ele.TFC/population ⁴	5846	11826	14627	15575	14703	14491	..	3.6	..
Elec. generated (TWh) ⁵	27.63	54.38	69.98	80.67	71.26	68.09	68.60	3.6	-0.1

Source: IEA/OECD *World Energy Balances* and OECD *Main Economic Indicators*.**Table 2. Total primary energy supply (TPES) by source**

	1974	1990	2000	2010	2013	2014	2015p	74-00	00-15
TPES (Mtoe)	20.56	28.38	32.41	36.63	33.27	33.93	32.46	1.8	0.0
Coal	2.60	5.32	5.13	6.91	5.14	4.48	3.87	2.6	-1.9
Oil	12.36	9.46	9.09	9.45	7.51	8.72	8.06	-1.2	-0.8
Natural gas	0.39	2.18	3.43	3.84	2.86	2.51	2.22	8.8	-2.9
Biofuels & waste	3.86	4.56	6.55	8.35	8.95	9.14	9.06	2.1	2.2
Nuclear	-	5.01	5.86	5.94	6.15	6.15	6.06	-	0.2
Geothermal	-	-	-	-	-	-	-	-	-
Solar, wind, tide ⁶	-	0.00	0.01	0.03	0.07	0.10	0.20	-	24.9
Hydro	1.09	0.93	1.26	1.11	1.10	1.15	1.44	0.6	0.9
Net electricity imports ⁷	0.27	0.92	1.02	0.90	1.35	1.55	1.40	5.3	2.1
Heat	-	-	0.07	0.10	0.13	0.14	0.14	-	4.6

Source: IEA/OECD *World Energy Balances*.

1. In units of toe/2005 thousand US dollars.
2. In units of toe/per capita.
3. Ele.TFC = electricity total final consumption.
4. In units of kWh/per capita.
5. Electricity generated = gross production - amount of electricity produced in pumped storage plants.
6. Includes wave, ocean and other (e.g. fuel cells).
7. Net Imports = total imports - total exports

Finland

Table 3a. Summary electricity production and consumption¹ (TWh)

	1974	1990	2000	2005	2010	2013	2014	2015e
Gross production	27.63	54.38	69.98	70.58	80.67	71.26	68.09	68.60
- Own use by power plant	1.11	2.79	2.69	2.74	3.45	2.90	2.64	-
Net production	26.53	51.59	67.29	67.84	77.22	68.35	65.46	-
- Used for heat pumps	-	-	0.01	0.00	0.12	0.16	0.20	0.21
- Used for electric boilers	-	-	0.07	0.02	0.05	0.03	0.04	0.05
- Used for pumped storage	-	-	-	-	-	-	-	-
+ Imports	3.62	11.01	12.21	17.95	15.72	17.59	21.62	21.46
- Exports	0.48	0.36	0.33	0.93	5.22	1.88	3.66	5.12
Electrical energy supplied	29.67	62.23	79.10	84.84	87.55	83.88	83.18	..
- Transmission & distr. losses	1.97	2.76	2.63	3.04	2.77	2.61	2.77	..
- Statistical difference	-	-	-0.00	0.17	-0.00	-0.00	-	..
Total consumption	27.70	59.47	76.47	81.62	84.79	81.27	80.41	..
Energy industry consumption²	0.28	0.53	0.78	0.87	1.29	1.33	1.27	..
Coal Mines	-	-	-	-	-	-	-	..
Oil + Gas Extraction	-	-	-	-	-	-	-	..
Patent Fuel Plants	-	-	-	-	-	-	-	..
Coke Ovens	-	-	-	-	-	-	-	..
BKB plants	-	-	-	-	-	-	-	..
Gas Works	-	-	-	-	-	-	-	..
Blast Furnaces	-	-	-	-	-	-	-	..
Oil Refineries	0.28	0.53	0.78	0.87	1.29	1.33	1.27	..
Nuclear Industry	-	-	-	-	-	-	-	..
Coal Liquefaction Plants	-	-	-	-	-	-	-	..
LNG/Regasification Plants	-	-	-	-	-	-	-	..
Energy - Non Specified	-	-	-	-	-	-	-	..
Final consumption	27.42	58.94	75.68	80.75	83.50	79.94	79.14	..
Industry	18.30	32.52	42.90	43.06	40.36	38.69	38.17	..
Iron and steel	1.19	1.86	2.83	3.45	3.28	3.88	3.99	..
Chem. and petrochemical	2.21	3.66	4.33	4.62	4.60	4.75	4.72	..
Non-ferrous metals	0.47	1.47	1.76	1.87	1.91	1.94	1.94	..
Non-metallic minerals	0.55	0.86	0.87	0.98	0.78	0.77	0.75	..
Transport equipment	-	-	0.33	0.29	0.40	0.27	0.28	..
Machinery	0.97	1.79	1.95	2.10	2.45	2.20	2.15	..
Mining and quarrying	0.52	0.59	0.56	0.63	0.94	1.42	1.37	..
Food and tobacco	0.65	1.30	1.53	1.46	1.65	1.67	1.61	..
Paper, pulp and printing	10.33	18.43	25.18	23.64	20.79	19.02	18.55	..
Wood and wood products	0.77	1.13	1.51	1.63	1.54	1.48	1.47	..
Construction	0.25	0.49	0.21	0.27	0.35	0.38	0.43	..
Textile and leather	0.36	0.29	0.25	0.21	0.13	0.16	0.21	..
Non specified/other	0.06	0.67	1.58	1.91	1.55	0.76	0.71	..
Transport	0.07	0.43	0.54	0.65	0.74	0.73	0.72	..
Rail Transport	0.07	0.43	0.54	0.65	0.74	0.73	0.72	..
Pipeline Transport	-	-	-	-	-	-	-	..
Road	-	-	-	-	-	-	0.00	..
Transport Non Specified	-	-	-	-	-	-	-	..
Commercial & publ. serv.	5.14	14.60	17.44	20.27	22.90	21.51	21.36	..
Residential	3.53	10.40	13.29	15.52	17.85	17.50	17.46	..
Agriculture	0.38	1.00	1.52	1.25	1.65	1.50	1.43	..
Fishing	-	-	-	-	-	-	-	..
Sector non specified	-	-	-	-	-	-	-	..

1. Electricity generation from main activity producer power plants and autoproducers .

2. Energy industry consumption = electricity consumed by transformation industries for heating, traction and lighting purposes;

excludes own use by power plant and electricity used for heat pumps, electric boilers and pumped storage.

Finland

Table 3b. Summary heat production and consumption¹ (TJ)

	1974	1990	2000	2005	2010	2013	2014	2015e
Gross production	25294	86832	150131	178131	209475	186894	181799	173710
- Own use by power plant	-	-	-	-	-	-	-	-
Net production	25294	86832	150131	178131	209475	186894	181799	-
- Used for electricity production	-	-	1347	1773	1831	1969	2045	2050
+ Imports	-	-	-	-	-	-	-	-
- Exports	-	-	-	-	-	-	-	-
Heat energy supplied	25294	86832	148784	176358	207644	184925	179754	..
- Transmission & distr. losses	1660	6660	11941	15362	16260	13900	14844	..
- Statistical difference	-	-	-	-	-112	-221	180	..
Total consumption	23634	80172	136843	160996	191496	171246	164730	..
Energy industry consumption²	-	-	-	-	1635	532	417	..
Coal Mines	-	-	-	-	-	-	-	..
Oil + Gas Extraction	-	-	-	-	-	-	-	..
Patent Fuel Plants	-	-	-	-	-	-	-	..
Coke Ovens	-	-	-	-	-	-	-	..
BKB plants	-	-	-	-	-	-	-	..
Gas Works	-	-	-	-	-	-	-	..
Blast Furnaces	-	-	-	-	-	-	-	..
Oil Refineries	-	-	-	-	1635	532	417	..
Nuclear Industry	-	-	-	-	-	-	-	..
Coal Liquefaction Plants	-	-	-	-	-	-	-	..
LNG/Regasification Plants	-	-	-	-	-	-	-	..
Energy - Non Specified	-	-	-	-	-	-	-	..
Final consumption	23634	80172	136843	160996	189861	170714	164313	..
Industry	3024	7308	51571	64476	66714	58287	52220	..
Iron and steel	-	-	-	-	1938	1664	3704	..
Chem. and petrochemical	-	-	-	-	11797	13566	10299	..
Non-ferrous metals	-	-	-	-	2587	1998	1991	..
Non-metallic minerals	-	-	-	-	692	503	434	..
Transport equipment	-	-	-	-	1331	802	952	..
Machinery	-	-	-	-	4803	3452	3716	..
Mining and quarrying	-	-	-	-	253	124	114	..
Food and tobacco	-	-	-	-	7649	5745	6344	..
Paper, pulp and printing	-	-	-	-	25120	21398	16877	..
Wood and wood products	-	-	-	-	10277	8718	7501	..
Construction	-	-	-	-	-	-	-	..
Textile and leather	-	-	-	-	267	317	288	..
Non specified/other	3024	7308	51571	64476	-	-	-	..
Transport	-	-	-	-	-	-	-	..
Commercial & publ. serv.	-	-	31401	36176	47016	42344	42274	..
Residential	14454	45072	53532	59904	72882	66917	65484	..
Agriculture	-	-	339	440	556	500	524	..
Fishing	-	-	-	-	-	-	-	..
Sector non specified	6156	27792	-	-	2693	2666	3811	..

1. Heat generation from main activity producer power plants and autoproducers.

2. Energy industry consumption = electricity consumed by transformation industries for heating, traction and lighting purposes;

excludes own use by power plant and electricity used for heat pumps, electric boilers and pumped storage.

Finland

Table 4a. Gross electricity production by source (TWh)

	1974	1990	2000	2010	2013	2014	2015e	74-00	00-15
Total plants gross production¹	27.63	54.38	69.98	80.67	71.26	68.09	68.60	3.6	-0.1
Nuclear	-	19.22	22.48	22.80	23.61	23.58	23.25	-	0.2
Hydro	12.63	10.86	14.66	12.92	12.84	13.40	16.76	0.6	0.9
- Of which pumped storage	-	-	-	-	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-	-	-
Solar	-	-	0.00	0.01	0.01	0.01	0.01	-	11.3
Wind	-	-	0.08	0.29	0.77	1.11	2.33	-	25.4
Combustible fuels	15.00	24.30	32.57	44.35	33.74	29.71	25.98	3.0	-1.5
- Coal	..	12.81 e	13.14	21.41	14.37	11.82	9.16	..	-2.4
- Oil	..	1.68	0.59	0.48	0.23	0.24	0.21	..	-6.8
- Natural gas	..	4.66	10.13	11.26	6.79	5.52	5.52	..	-4.0
- Biofuels & waste	..	5.16 e	8.71	11.19	12.35	12.14	11.11	..	1.6
Other ²	-	-	0.19	0.31	0.29	0.29	0.26	-	2.0
Of which autoproducers	6.61	8.69	11.94	11.09	10.12	10.09	..	2.3	..
Nuclear	-	-	-	-	-	-	..	-	..
Hydro	-	-	1.06	0.86	0.98	0.93	..	-	..
- Of which pumped storage	-	-	-	-	-	-	..	-	..
Geothermal	-	-	-	-	-	-	..	-	..
Solar	-	-	0.00	0.01	0.01	0.01	..	-	..
Wind	-	-	-	-	-	-	..	-	..
Combustible fuels	6.61	8.69	10.72	10.03	8.96	8.98	..	1.9	..
- Coal	..	1.26 e	1.57	1.12	0.83	0.43
- Oil	..	1.12	0.33	0.27	0.10	0.09
- Natural gas	..	1.30	2.07	2.39	1.27	1.28
- Biofuels & waste	..	5.01 e	6.75	6.25	6.76	7.18
Other ²	-	-	0.16	0.20	0.18	0.18	..	-	..

Table 4b. Gross heat production by source (PJ)

	1974	1990	2000	2010	2013	2014	2015e	74-00	00-15
Total plants heat generation³	25.29	86.83	150.13	209.48	186.89	181.80	173.71	7.1	1.0
Nuclear	-	-	-	-	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-	-	-
Combustible fuels	25.29	86.83	146.76	204.03	179.58	174.08	165.98	7.0	0.8
- Coal	..	52.25 e	53.19	70.87	58.16	58.49	50.57	..	-0.3
- Oil	..	12.39	12.48	14.16	6.51	6.23	6.19	..	-4.6
- Natural gas	..	17.17	45.35	50.18	34.50	30.16	28.50	..	-3.0
- Biofuels & waste	..	5.03 e	35.74	68.82	80.41	79.20	80.73	..	5.6
Chemical processes	-	-	2.99	3.32	4.48	4.53	4.50	-	2.8
Heat pumps	-	-	0.04	1.25	1.71	2.15	2.20	-	31.1
Electric boilers	-	-	0.21	0.16	0.08	0.08	0.08	-	-6.3
Other sources	-	-	0.14	0.71	1.04	0.96	0.95	-	13.9
Of which Autoproducers	-	-	18.16	19.05	18.87	19.83	..	-	..
Nuclear	-	-	-	-	-	-	..	-	..
Geothermal	-	-	-	-	-	-	..	-	..
Combustible fuels	-	-	15.04	15.59	14.38	15.29	..	-	..
- Coal	..	-	1.75	2.91	1.31	0.82	..	-	..
- Oil	..	-	1.89	1.04	0.87	0.92	..	-	..
- Natural gas	..	-	2.87	2.75	2.89	2.64	..	-	..
- Biofuels & waste	..	-	8.53	8.90	9.31	10.91	..	-	..
Chemical processes	-	-	2.99	3.32	4.48	4.53	..	-	..
Heat pumps	-	-	-	-	-	-	..	-	..
Electric boilers	-	-	-	-	-	-	..	-	..
Other sources	-	-	0.14	0.14	0.02	0.01	..	-	..

1. Electricity generated from main activity producer power plants and autoproducers.

2. Includes wave, ocean and other sources (e.g. fuel cells, electricity from chemical heat).

3. Total heat generation = gross production of heat from main activity producer + heat sold in autoproducers.

Finland

Table 5. Net electricity production by autoproducers (GWh)

	1974	1990	2000	2010	2012	2013	2014	74-00	00-14
Total	6178	8118	11384	10582	9780	9666	9650	2.4	-1.2
Total energy	-	-	815	914	571	651	629	-	-1.8
Coal mines	-	-	-	-	-	-	-	-	-
Oil and gas extraction	-	-	-	-	-	-	-	-	-
Patent fuel plants	-	-	-	-	-	-	-	-	-
Coke ovens	-	-	-	-	-	-	-	-	-
Gas works	-	-	-	-	-	-	-	-	-
BKB	-	-	815	914	571	651	629	-	-1.8
Oil refineries	-	-	-	-	-	-	-	-	-
Energy non specified/other	-	-	-	-	-	-	-	-	-
Total industry	-	-	10540	9568	9104	8899	8846	-	-1.2
Iron and steel	-	-	688	583	461	428	1	-	-37.3
Chemical and petrochemical	-	-	327	184	199	195	203	-	-3.3
Non-ferrous metals	-	-	-	-	-	-	-	-	-
Non-metallic minerals	-	-	-	1	1	1	1	-	-
Transport equipment	-	-	-	-	-	-	-	-	-
Machinery	-	-	5	17	16	9	12	-	6.5
Mining and quarrying	-	-	-	-	-	-	-	-	-
Food and tobacco	-	-	7	22	23	26	24	-	9.2
Pulp and printing	-	-	9470	8721	8267	7968	8392	-	-0.9
Wood and wood products	-	-	30	25	7	33	39	-	1.9
Construction	-	-	-	-	-	-	-	-	-
Textile and leather	-	-	-	-	-	-	-	-	-
Non specified/other industries	-	-	13	15	130	239	174	-	20.4
Total transport	-	-	-	-	-	-	-	-	-
Rail	-	-	-	-	-	-	-	-	-
Pipeline	-	-	-	-	-	-	-	-	-
Transport non specified	-	-	-	-	-	-	-	-	-
Other	6178	8118	29	100	105	116	175	-18.6	13.7
Commerce and pub. services	-	-	27	95	99	104	163	-	13.7
Residential	-	-	2	5	6	6	7	-	9.4
Agriculture	-	-	-	-	-	6	5	-	-
Fishing	-	-	-	-	-	-	-	-	-
Sector non specified	6178	8118	-	-	-	-	-	-	-

Notes: Data reported in this table prior to 1990 may refer to combustible fuels only.

Finland

Table 6a. Electricity production from combustible fuels in electricity plants¹

	1990	2000	2005	2010	2012	2013	2014	90-00	00-14
Steam coal									
Fuel input (1000 t)	1540	1540	800	3395	1007	2220	1383	-	-0.8
Fuel input (TJ)	39332	39282	20417	85219	24896	55233	34206	-0.0	-1.0
Electricity production (GWh)	4419	4528	2297	10075	2824	6404	3982	0.2	-0.9
Lignite									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
Coal manufactured gases²									
Fuel input (TJ)	4392	6615	7699	6104	5410	5114	5424	4.2	-1.4
Electricity production (GWh)	376	654	651	522	447	422	418	5.7	-3.1
Other coal products³									
Fuel input (1000 t)	700	951	1227	2326	763	804	840	3.1	-0.9
Fuel input (TJ)	7526	9840	12061	23610	7322	7750	8396	2.7	-1.1
Electricity production (GWh)	840 e	1092	1291	2646	799	863	909	2.7	-1.3
Oil and petroleum products									
Fuel input (1000 t)	106	25	35	32	33	29	26	-13.5	0.3
Fuel input (TJ)	4305	1049	1455	1331	1375	1161	1115	-13.2	0.4
Electricity production (GWh)	331	98	127	131	124	116	103	-11.5	0.4
Natural gas²									
Fuel input (TJ)	9461	4065	2730	2226	1235	1506	734	-8.1	-11.5
Electricity production (GWh)	963	400	251	205	99	149	73	-8.4	-11.4
Solid biofuels									
Fuel input (TJ)	7007	6204	11407	15284	12429	13895	11163	-1.2	4.3
Electricity production (GWh)	489 e	642	1097	1551	1221	1367	1074	2.8	3.7
Industrial waste									
Fuel input (TJ)	-	11	12	97	69	155	165	-	21.3
Electricity production (GWh)	-	2	1	5	5	13	14	-	14.9
Municipal waste									
Fuel input (TJ)	-	137	808	1499	1028	1085	1090	-	16.0
Electricity production (GWh)	-	13	85	158	104	97	97	-	15.4
Biogases and liquid biofuels									
Fuel input (TJ)	-	-	7	432	457	1666	1863	-	-
Electricity production (GWh)	-	-	1	51	57	206	232	-	-
Total combustible fuels									
Electricity production (GWh)	7418 e	7429	5801	15344	5680	9637	6902	0.0	-0.5

1. Excludes CHP plants.

2. Coal manufactured gases and natural gas are expressed on a gross calorific value basis.

3. Includes Coking coal as well as peat and peat products, patent fuels, BKB and shale oil

Finland**Table 6b. Electricity and heat produced for sale from combustible fuels
in combined heat and power plants (CHP plants)**

	1990	2000	2005	2010	2012	2013	2014	90-00	00-14
Steam coal									
Fuel input (1000 t)	2192	1906	2013	2083	2070	2045	1845	-1.4	-0.2
Fuel input (TJ)	55984	48589	51346	52291	51153	50781	45505	-1.4	-0.5
Electricity production (GWh)	5243	3954	4196	4451	4274	4284	3941	-2.8	-0.0
CHP Heat production (TJ)	32493	27340	28455	29422	28932	27991	26443	-1.7	-0.2
Lignite									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
CHP Heat production (TJ)	-	-	-	-	-	-	-	-	-
Coal manufactured gases¹									
Fuel input (TJ)	-	379	403	617	504	1126	1582	-	10.7
Electricity production (GWh)	-	31	39	66	45	88	73	-	6.3
CHP Heat production (TJ)	-	189	172	268	259	595	993	-	12.6
Other coal products²									
Fuel input (1000 t)	2128	3427	4254	5175	4194	3458	3565	4.9	0.3
Fuel input (TJ)	22880	35332	41696	52353	40350	33384	35681	4.4	0.1
Electricity production (GWh)	1934 e	2878	3214	3654	2882	2310	2495	4.1	-1.0
CHP Heat production (TJ)	12492 e	19485	23291	31211	23780	19392	20979	4.5	0.5
Petroleum products									
Fuel input (1000 t)	197	150	120	97	64	58	58	-2.7	-6.6
Fuel input (TJ)	8000	6157	4934	4063	2671	2364	2453	-2.6	-6.4
Electricity production (GWh)	1348	489	373	353	188	118	132	-9.6	-8.9
CHP Heat production (TJ)	1896	2921	2274	2216	1440	1500	1520	4.4	-4.6
Natural gas¹									
Fuel input (TJ)	32948	85665	97650	95744	62031	57664	46015	10.0	-4.3
Electricity production (GWh)	3692	9731	10980	11054	6627	6639	5448	10.2	-4.1
CHP Heat production (TJ)	13404	33189	37954	36536	25048	22230	17274	9.5	-4.6
Solid Biofuels									
Fuel input (TJ)	31344	63977	78492	91671	99716	103772	96742	7.4	3.0
Electricity production (GWh)	4667 e	7859	8115	9018	9486	9941	9894	5.3	1.7
CHP Heat production (TJ)	1275 e	23972	33281	43564	47835	49437	44158	34.1	4.5
Industrial waste									
Fuel input (TJ)	-	1137	1235	600	866	916	918	-	-1.5
Electricity production (GWh)	-	29	55	24	33	60	62	-	5.6
CHP Heat production (TJ)	-	408	479	384	563	424	429	-	0.4
Municipal waste									
Fuel input (TJ)	-	1431	4260	5181	8337	11130	12378	-	16.7
Electricity production (GWh)	-	136	301	326	428	565	646	-	11.8
CHP Heat production (TJ)	-	705	2429	2881	5052	6759	7769	-	18.7
Biogases and liquid biofuels									
Fuel input (TJ)	-	183	208	295	496	721	941	-	12.4
Electricity production (GWh)	-	31	32	55	103	102	118	-	10.0
CHP Heat production (TJ)	-	21	45	34	60	219	341	-	22.0
Total combustible fuels									
Electricity production (GWh)	16884 e	25138	27305	29001	24066	24107	22809	4.1	-0.7
CHP Heat production (TJ)	61560 e	108230	128380	146516	132969	128547	119906	5.8	0.7

1. Coal manufactured gases and natural gas are expressed on a gross calorific value basis.

2. Includes Coking coal as well as peat and peat products, patent fuels, BKB and shale oil

Finland**Table 6c. Heat produced for sale from combustible fuels in heat plants¹**

	1990	2000	2005	2010	2012	2013	2014	90-00	00-14
Steam coal									
Fuel input (1000 t)	152	102	108	113	191	216	179	-3.9	4.1
Fuel input (TJ)	3882	2621	2750	2847	4712	5367	4438	-3.9	3.8
Heat production (TJ)	3610	2215	2461	2598	4272	4842	3996	-4.8	4.3
Lignite									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Heat production (TJ)	-	-	-	-	-	-	-	-	-
Coal manufactured gases²									
Fuel input (TJ)	-	732	1147	1223	1185	667	1550	-	5.5
Heat production (TJ)	-	663	929	982	948	530	1232	-	4.5
Other coal products³									
Fuel input (1000 t)	400	377	486	721	629	563	560	-0.6	2.9
Fuel input (TJ)	4301	3896	4784	7444	6213	5523	5627	-1.0	2.7
Heat production (TJ)	3659 e	3297	4149	6393	5397	4810	4845	-1.0	2.8
Petroleum products									
Fuel input (1000 t)	266	271	285	327	243	146	132	0.2	-5.0
Fuel input (TJ)	10802	11003	11675	13454	10009	5977	5471	0.2	-4.9
Heat production (TJ)	10492	9554	10405	11941	8706	5010	4708	-0.9	-4.9
Natural gas²									
Fuel input (TJ)	4500	14983	15721	16822	18701	14931	15545	12.8	0.3
Heat production (TJ)	3761	12162	12951	13639	15451	12274	12890	12.5	0.4
Solid biofuels									
Fuel input (TJ)	4492	11927	16046	23091	25831	26443	28608	10.3	6.4
Heat production (TJ)	3045 e	9992	13513	20215	21947	22766	25081	12.6	6.8
Industrial waste									
Fuel input (TJ)	-	32	51	671	914	32	28	-	-0.9
Heat production (TJ)	-	17	39	500	763	26	25	-	2.8
Municipal waste									
Fuel input (TJ)	784	578	681	1223	1042	615	1290	-3.0	5.9
Heat production (TJ)	705 e	481	532	911	811	465	1071	-3.8	5.9
Biogases and liquid biofuels									
Fuel input (TJ)	-	157	896	378	341	379	398	-	6.9
Heat production (TJ)	-	145	825	335	289	314	323	-	5.9
Total combustible fuels									
Heat production (TJ)	25272 e	38526	45804	57514	58584	51037	54171	4.3	2.5

1. Excludes CHP plants

2. Coal manufactured gases and natural gas are expressed on a gross calorific value basis.

3. Includes Coking coal as well as peat and peat products, patent fuels, BKB and shale oil

Finland

Table 7. Net maximum electricity generating capacity on 31 December (GW)

	1974	1990	2000	2005	2010	2012	2013	2014
Total capacity¹	6.50	13.22	16.26	16.47	15.54	15.76	16.65	16.25
Nuclear	-	2.36	2.64	2.67	2.72	2.73	2.75	2.75
Hydro	2.27	2.62	2.88	3.04	3.16	3.20	3.22	3.25
<i>of which: pumped storage</i>	-	-	-	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-	-
Solar PV	-	-	-	-	0.01	0.01	0.01	0.01
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	-	0.04	0.08	0.20	0.26	0.45	0.63
Other (e.g. fuel cells)	-	-	-	-	-	-	-	-
Combustible fuels	4.23	8.24	10.70	10.68	9.46	9.56	10.22	9.61
<i>of which⁽²⁾:</i>								
<i>Single-fired:</i>								
Coal and Coal products	0.06	0.04	0.06	0.06	0.02	0.02	0.02	0.02
Liquid fuels	1.16	0.97	0.99	0.91	1.26	1.23	1.57	1.57
Natural gas	-	0.44	0.41	0.41	1.44	1.45	1.45	1.45
Biofuels & waste	-	-	-	-	0.04	0.06	0.06	0.06
<i>Multi-fired:</i>								
Solid / liquid	2.55	4.37	5.24	5.29	5.12	5.17	5.47	4.78
Solid / natural gas	-	0.14	0.25	0.25	0.09	0.17	0.17	0.17
Liquid / natural gas	0.22	1.04	1.59	1.59	0.43	0.43	0.43	0.43
Solid / liquid / gas	0.24	1.24	2.16	2.16	1.07	1.04	1.07	1.14
<i>Type of generation</i>								
Steam	3.45	6.88	7.22	7.19	7.08	7.19	7.51	6.90
Internal combustion	-	-	0.05	0.05	0.12	0.10	0.10	0.10
Gas turbine	0.78	1.36	1.85	1.85	0.95	0.96	1.29	1.29
Combined cycle	-	-	1.59	1.59	1.31	1.32	1.32	1.32
Other	-	-	-	-	-	-	-	-
<i>Peak load</i>	..	10.24	12.40	13.48	14.62	14.44	14.17	14.37
Of which Autoproducers	1.29	1.78	2.47	2.47	2.07	2.01	2.04	2.05
Nuclear	-	-	-	-	-	-	-	-
Hydro	-	-	0.20	0.20	0.20	0.17	0.19	0.19
<i>of which: pumped storage</i>	-	-	-	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-	-
Solar PV	-	-	-	-	0.01	0.01	0.01	0.01
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	-	-	-	-	-	-	-
Other (e.g. fuel cells)	-	-	-	-	-	-	-	-
Combustible fuels	1.29	1.78	2.27	2.27	1.87	1.83	1.85	1.85

1. Sum of available capacity figures

2. Breakdown of electrical capacity by type of fuel are shown in the individual country chapters.

Finland**Table 8. Capacity factors (%)**

	1974	1990	2000	2005	2010	2012	2013	2014
Total plants¹	48.5	47.0	49.1	48.9	59.3	51.0	48.9	47.9
Nuclear	-	93.0	97.2	99.5	95.8	96.1	97.9	97.8
Hydro	63.6	47.3	58.1	51.9	46.8	60.2	45.5	47.1
<i>of which: pumped storage</i>	-	-	-	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-	-
Solar PV	-	-	11.4	8.6	8.2	8.6	7.6	8.3
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	-	23.4	23.7	17.0	21.9	19.8	20.2
Other (e.g. fuel cells)	-	-	-	-	-	-	-	-
Combustible fuels	40.5	33.7	34.8	35.4	53.5	35.5	37.7	35.3
Of which autoproducers	58.4	55.7	55.2	51.6	61.2	58.3	56.6	56.3
Nuclear	-	-	-	-	-	-	-	-
Hydro	-	-	61.9	58.0	50.4	85.0	60.1	56.9
<i>of which: pumped storage</i>	-	-	-	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-	-
Solar PV	-	-	11.4	8.6	8.2	8.6	7.6	8.3
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	-	-	-	-	-	-	-
Other (e.g. fuel cells)	-	-	-	-	-	-	-	-
Combustible fuels	58.4	55.7	53.9	50.0	61.3	54.8	55.4	55.5

1. The capacity factor is defined as: the annual gross electricity generation (in GWh) divided by the net capacity (in GW) times 365 (days/year) times 24 (hours/day)

Finland**Table 9a. Electricity imports by origin (GWh)**

	1974	1990	2000	2005	2010	2012	2013	2014
Total imports	3615	11007	12206	17948	15719	19089	17591	21622
Total from OECD	-	6476	7687	6635	4081	14686	12878	18237
Austria	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-
Canada	-	-	-	-	-	-	-	-
Czech Republic	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	1967	373	459	32
Finland	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-
Greece	-	-	-	-	-	-	-	-
Hungary	-	-	-	-	-	-	-	-
Ireland	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-
Luxembourg	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-
Norway	-	125	132	165	114	78	46	55
Poland	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-
Slovak Republic	-	-	-	-	-	-	-	-
Slovenia	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-
Sweden	-	6351	7555	6470	2000	14235	12373	18150
Switzerland	-	-	-	-	-	-	-	-
Turkey	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-
United States	-	-	-	-	-	-	-	-
Total from non-OECD	-	4531	4519	11313	11638	4403	4713	3385
Albania	-	-	-	-	-	-	-	-
Azerbaijan	-	-	-	-	-	-	-	-
Belarus	-	-	-	-	-	-	-	-
Bulgaria	-	-	-	-	-	-	-	-
Croatia	-	-	-	-	-	-	-	-
F.Y.R. of Macedonia	-	-	-	-	-	-	-	-
Georgia	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-
Romania	-	-	-	-	-	-	-	-
Russian Federation	-	4531	4519	11313	11638	4403	4713	3385
Serbia	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-
Turkmenistan	-	-	-	-	-	-	-	-
Ukraine	-	-	-	-	-	-	-	-
Non-specified/others	3615	-	-	-	-	-	-	-

Finland**Table 9b. Electricity exports by destination (GWh)**

	1974	1990	2000	2005	2010	2012	2013	2014
Total exports	475	364	326	933	5218	1645	1876	3655
Total to OECD	-	364	326	933	5218	1645	1873	3655
Austria	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-
Canada	-	-	-	-	-	-	-	-
Czech Republic	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	246	1530	1544	3523
Finland	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-
Greece	-	-	-	-	-	-	-	-
Hungary	-	-	-	-	-	-	-	-
Ireland	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-
Luxembourg	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-
Norway	-	-	173	131	156	89	113	132
Poland	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-
Slovak Republic	-	-	-	-	-	-	-	-
Slovenia	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-
Sweden	-	364	153	802	4816	26	216	-
Switzerland	-	-	-	-	-	-	-	-
Turkey	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-
United States	-	-	-	-	-	-	-	-
Total to non-OECD	-	-	-	-	-	-	3	-
Albania	-	-	-	-	-	-	-	-
Azerbaijan	-	-	-	-	-	-	-	-
Belarus	-	-	-	-	-	-	-	-
Bulgaria	-	-	-	-	-	-	-	-
Croatia	-	-	-	-	-	-	-	-
F.Y.R. of Macedonia	-	-	-	-	-	-	-	-
Georgia	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-
Romania	-	-	-	-	-	-	-	-
Russian Federation	-	-	-	-	-	-	3	-
Serbia	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-
Turkmenistan	-	-	-	-	-	-	-	-
Ukraine	-	-	-	-	-	-	-	-
Non-specified/others	475	-	-	-	-	-	-	-

Finland**Table 10a. Share of electricity in total final consumption (%)**

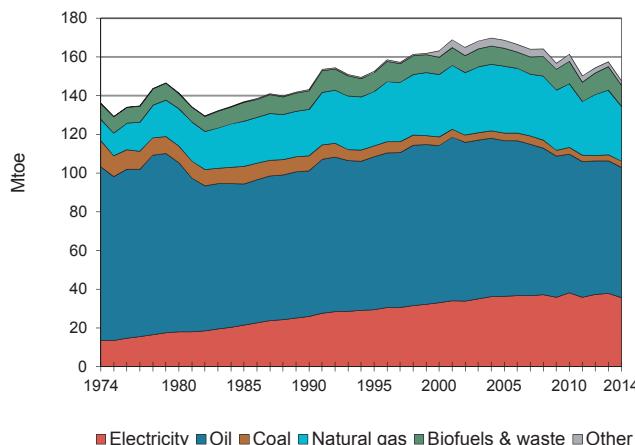
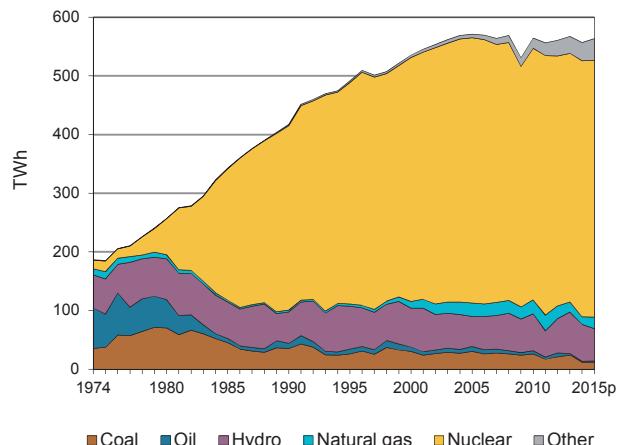
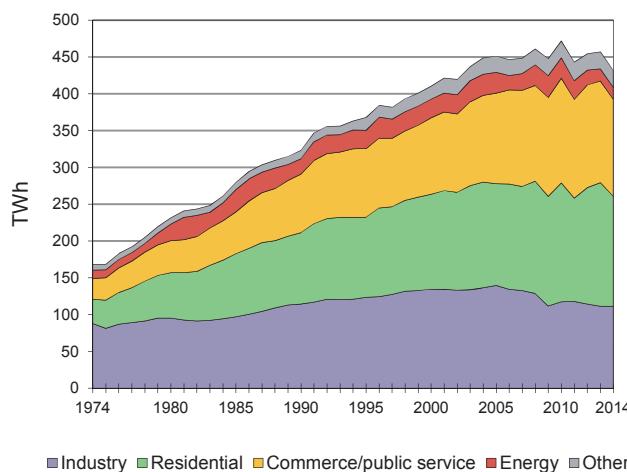
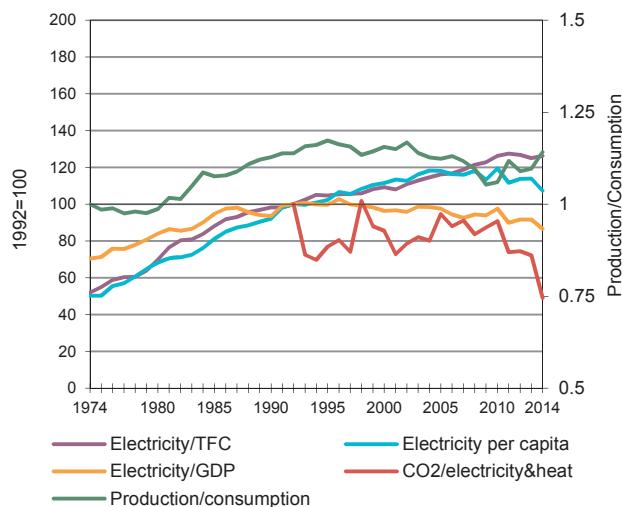
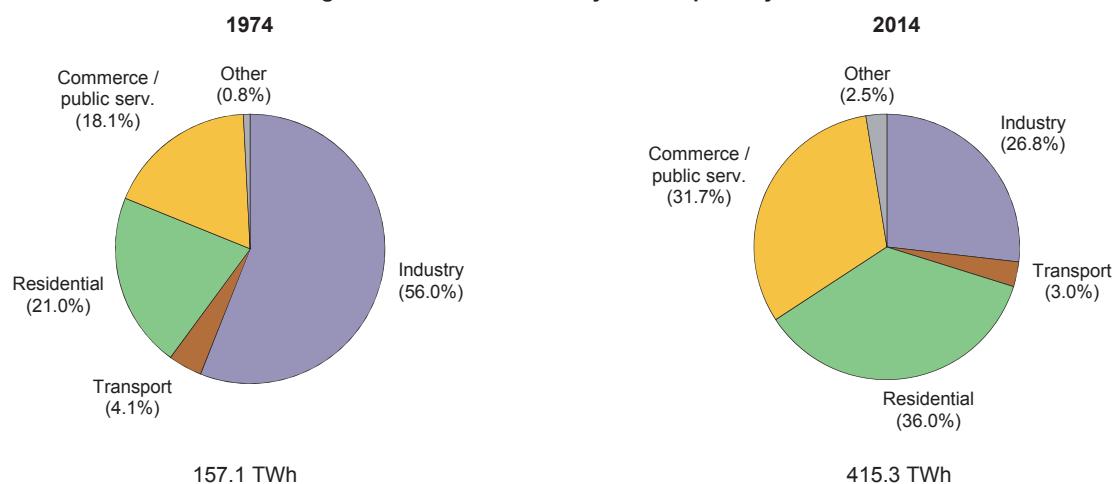
	1974	1990	2000	2005	2010	2012	2013	2014
Share of total final consumption	12.9	22.7	26.6	27.4	27.2	27.6	27.7	27.7
Industry	25.1	30.7	31.8	33.0	32.0	31.7	32.1	31.8
Iron and steel	18.3	17.3	29.1	34.0	31.3	37.6	43.7	42.1
Chem. and petrochemical	28.2	31.8	53.0	50.8	39.7	40.6	39.2	42.3
Non-ferrous metals	50.6	79.1	83.7	87.8	61.7	64.2	66.7	67.8
Non-metallic minerals	17.2	9.5	19.5	20.2	20.6	21.4	21.5	21.9
Transport equipment	-	-	38.9	43.5	43.9	41.7	42.0	42.9
Machinery	38.0	60.1	65.3	71.5	55.0	56.4	60.0	58.0
Mining and quarrying	36.0	45.6	46.0	55.1	60.1	61.9	65.2	66.0
Food and tobacco	12.2	24.9	48.0	57.4	32.3	33.8	37.5	35.7
Paper, pulp and printing	41.6	40.6	32.9	35.5	29.3	27.8	27.5	26.9
Wood and wood products	36.7	20.1	38.6	36.3	23.0	23.1	23.3	23.9
Construction	11.1	40.1	5.8	7.0	8.7	8.0	8.2	9.3
Textile and leather	33.3	43.0	41.7	49.5	39.3	47.3	42.8	46.0
Non specified/other	0.4	6.6	8.9	8.8	49.4	49.6	47.2	36.0
Transport	0.2	0.9	1.2	1.3	1.5	1.5	1.5	1.5
Rail Transport	4.6	36.7	49.2	57.2	66.2	66.1	66.7	69.3
Pipeline Transport	-	-	-	-	-	-	-	-
Road	-	-	-	-	-	-	-	-
Transport Non Specified	-	-	-	-	-	-	-	-
Other sectors	9.4	28.6	35.4	36.8	36.3	37.7	38.5	38.7
Commercial & publ. serv.	100.0	100.0	49.2	51.0	49.9	51.1	52.2	52.3
Residential	12.7	23.5	33.5	34.8	33.9	35.4	36.2	36.3
Agriculture	6.3	9.3	18.2	15.1	18.4	17.9	17.3	18.0
Fishing	-	-	-	-	-	-	-	-
Sector non specified	-	-	-	-	-	-	-	-

Table 10b. Share of heat in total final consumption (%)

	1974	1990	2000	2005	2010	2012	2013	2014
Share of total final consumption	3.1	8.6	13.4	15.2	17.2	17.0	16.5	16.0
Industry	1.2	1.9	10.6	13.7	14.7	14.1	13.4	12.1
Iron and steel	-	-	-	-	5.1	5.6	5.2	10.9
Chem. and petrochemical	-	-	-	-	28.3	29.7	31.1	25.6
Non-ferrous metals	-	-	-	-	23.2	20.3	19.1	19.3
Non-metallic minerals	-	-	-	-	5.1	4.9	3.9	3.5
Transport equipment	-	-	-	-	40.5	35.7	34.2	40.5
Machinery	-	-	-	-	30.0	30.0	26.2	27.9
Mining and quarrying	-	-	-	-	4.5	4.3	1.6	1.5
Food and tobacco	-	-	-	-	41.7	37.4	35.9	39.0
Paper, pulp and printing	-	-	-	-	9.8	9.2	8.6	6.8
Wood and wood products	-	-	-	-	42.5	42.5	38.0	33.9
Construction	-	-	-	-	-	-	-	-
Textile and leather	-	-	-	-	21.7	24.2	23.3	18.0
Non specified/other	5.9	20.1	80.7	82.2	-	-	-	-
Transport	-	-	-	-	-	-	-	-
Other sectors	5.9	22.3	26.0	26.6	29.3	29.5	29.7	30.0
Commercial & publ. serv.	-	-	32.3	33.0	36.5	35.3	35.1	35.1
Residential	9.9	20.2	28.5	28.5	30.0	30.6	31.3	30.9
Agriculture	-	-	1.1	1.5	1.7	1.7	1.6	1.8
Fishing	-	-	-	-	-	-	-	-
Sector non specified	3.7	100.0	-	-	18.8	25.8	23.3	32.7

Source: IEA/OECD World Energy Balances.

France

Figure 1. Total final consumption by fuel**Figure 2. Electricity generation by fuel****Figure 3. Electricity consumption by sector****Figure 4. Electricity indicators****Figure 5. Total final electricity consumption by sector**

France**Table 1. Energy consumption, GDP and population**

	1974	1990	2000	2010	2013	2014	2015p	74-00	00-15
TPES (Mtoe)	174.35	224.01	251.90	261.21	253.01	242.64	245.70	1.4	-0.2
GDP (billion 2005 USD)	1276.51	1907.28	2346.48	2646.84	2724.58	2729.47	2761.02	2.4	1.1
TPES/GDP ¹	0.14	0.12	0.11	0.10	0.09	0.09	0.09	-0.9	-1.2
Population (millions)	53.68	58.23	60.87	64.97	65.88	66.17	66.49	0.5	0.6
TPES/population ²	3.25	3.85	4.14	4.02	3.84	3.67	3.70	0.9	-0.8
TPES/GDP (2005 = 100)	128	110	101	93	87	84	84	-0.9	-1.2
Ele.TFC/GDP(2005=100) ³	74	95	99	101	97	92	..	1.1	..
Ele.TFC/population ⁴	2928	5192	6325	6837	6692	6279	..	3.0	..
Elec. generated (TWh) ⁵	186.85	417.20	535.18	564.29	567.16	556.98	563.21	4.1	0.3

Source: IEA/OECD *World Energy Balances* and OECD *Main Economic Indicators*.**Table 2. Total primary energy supply (TPES) by source**

	1974	1990	2000	2010	2013	2014	2015p	74-00	00-15
TPES (Mtoe)	174.35	224.01	251.90	261.21	253.01	242.64	245.70	1.4	-0.2
Coal	29.53	20.22	15.04	12.07	12.45	9.29	8.88	-2.6	-3.5
Oil	113.19	84.03	82.22	75.58	71.21	70.25	70.66	-1.2	-1.0
Natural gas	14.09	26.02	35.76	42.53	39.00	32.59	35.03	3.6	-0.1
Biofuels & waste	8.84	10.99	10.76	15.41	15.90	14.79	15.09	0.8	2.3
Nuclear	3.83	81.85	108.19	111.68	110.41	113.75	114.00	13.7	0.3
Geothermal	0.00	0.11	0.13	0.17	0.22	0.22	0.22	18.6	3.8
Solar, wind, tide ⁶	0.05	0.07	0.07	1.01	1.91	2.13	2.60	1.1	27.4
Hydro	4.84	4.63	5.71	5.39	6.08	5.40	4.72	0.6	-1.3
Net electricity imports ⁷	-0.01	-3.91	-5.98	-2.64	-4.17	-5.78	-5.51	28.4	-0.5
Heat	-	-	-	-	0.00	0.00	0.00	-	-

Source: IEA/OECD *World Energy Balances*.

1. In units of toe/2005 thousand US dollars.
2. In units of toe/per capita.
3. Ele.TFC = electricity total final consumption.
4. In units of kWh/per capita.
5. Electricity generated = gross production - amount of electricity produced in pumped storage plants.
6. Includes wave, ocean and other (e.g. fuel cells).
7. Net Imports = total imports - total exports

France

Table 3a. Summary electricity production and consumption¹ (TWh)

	1974	1990	2000	2005	2010	2013	2014	2015e
Gross production	186.86	420.75	539.95	576.06	569.10	572.31	562.78	568.18
- Own use by power plant	6.46	19.60	23.85	26.03	24.99	23.80	23.36	-
Net production	180.40	401.15	516.11	550.04	544.11	548.51	539.42	-
- Used for heat pumps	-	-	-	-	-	0.01	0.02	0.02
- Used for electric boilers	-	-	-	-	-	-	-	0.01
- Used for pumped storage	0.38	4.94	6.60	6.64	6.60	7.09	7.96	6.89
+ Imports	6.39	6.67	3.70	8.06	19.48	11.69	7.87	9.98
- Exports	6.50	52.11	73.17	68.39	50.19	60.15	75.06	74.02
Electrical energy supplied	179.92	350.77	440.03	483.07	506.80	492.95	464.25	..
- Transmission & distr. losses	11.76	27.70	30.41	32.23	35.41	37.58	35.38	..
- Statistical difference	-	-0.18	-0.78	-0.27	-0.37	-1.71	-2.74	..
Total consumption	168.16	323.25	410.39	451.11	471.76	457.08	431.60	..
Energy industry consumption²	11.06	21.02	25.49	28.34	27.67	16.37	16.28	..
Coal Mines	2.35	1.25	0.74	0.52	0.06	0.06	0.04	..
Oil + Gas Extraction	0.05	4.41	4.41	0.59	0.53	0.46	0.36	..
Patent Fuel Plants	0.01	-	-	-	-	-	-	..
Coke Ovens	-	-	-	0.01	0.00	0.00	0.00	..
BKB plants	-	-	-	-	-	-	-	..
Gas Works	0.18	-	-	-	-	-	-	..
Blast Furnaces	-	-	-	-	-	-	-	..
Oil Refineries	3.51	-	-	3.47	3.25	3.60	3.62	..
Nuclear Industry	-	13.68	16.26	c	c	c	c	..
Coal Liquefaction Plants	-	-	-	-	-	-	-	..
LNG/Regasification Plants	-	-	-	-	-	-	-	..
Energy - Non Specified	4.95	1.69	4.08	23.76	23.84	12.25	12.26	..
Final consumption	157.10	302.23	384.90	422.77	444.09	440.71	415.33	..
Industry	88.01	114.67	134.66	139.55	117.44	111.44	111.38	..
Iron and steel	15.59	11.64	17.15	15.61	10.22	12.28	18.35	..
Chem. and petrochemical	21.06	26.79	25.74	24.93	27.64	20.43	20.41	..
Non-ferrous metals	11.30	10.54	9.70	9.83	7.47	8.37	7.72	..
Non-metallic minerals	5.80	6.36	8.12	8.83	9.17	8.19	8.81	..
Transport equipment	4.46	8.02	8.66	8.26	7.56	6.40	4.76	..
Machinery	7.83	13.63	14.83	11.92	15.94	12.50	9.10	..
Mining and quarrying	1.77	3.66	1.89	1.65	0.58	1.60	0.62	..
Food and tobacco	5.07	13.80	17.70	19.75	20.10	20.82	20.78	..
Paper, pulp and printing	5.59	9.39	13.69	13.49	9.20	9.93	8.31	..
Wood and wood products	1.30	3.94	2.16	2.28	2.25	2.13	5.06	..
Construction	0.85	2.10	1.50	1.74	2.17	3.09	2.14	..
Textile and leather	6.70	4.24	3.63	2.57	1.76	1.49	1.46	..
Non specified/other	0.68	0.56	9.90	18.69	3.39	4.22	3.86	..
Transport	6.40	8.88	11.68	12.22	12.53	12.78	12.47	..
Rail Transport	6.40	6.75	8.86	8.87	8.81	9.08	8.46	..
Pipeline Transport	-	-	-	0.00	-	-	-	..
Road	-	-	-	-	-	-	-	..
Transport Non Specified	-	2.13	2.82	3.35	3.73	3.70	4.01	..
Commercial & publ. serv.	33.04	96.91	128.72	138.48	161.52	167.90	149.43	..
Residential	28.36	79.36	104.01	122.83	142.17	138.02	131.61	..
Agriculture	1.20	2.11	2.73	7.33	7.62	8.65	8.64	..
Fishing	-	-	-	0.11	0.12	0.12	0.13	..
Sector non specified	0.08	0.32	3.11	2.26 e	2.69	1.79	1.67	..

1. Electricity generation from main activity producer power plants and autoproducers .

2. Energy industry consumption = electricity consumed by transformation industries for heating, traction and lighting purposes;

excludes own use by power plant and electricity used for heat pumps, electric boilers and pumped storage.

France

Table 3b. Summary heat production and consumption¹ (TJ)

	1974	1990	2000	2005	2010	2013	2014	2015e
Gross production	8119 e	19997 e	135470	178280	160796	134469	122029	122029
- Own use by power plant	-	-	-	-	-	-	-	-
Net production	8119 e	19997 e	135470	178280	160796	134469	122029	-
- Used for electricity production	-	-	-	-	-	14140	10231	10231
+ Imports	-	-	-	-	-	-	-	-
- Exports	-	-	-	-	-	-	-	-
Heat energy supplied	8119 e	19997 e	135470	178280	160796	120329	111798	..
- Transmission & distr. losses	-	-	-	-	-	7055	6689	..
- Statistical difference	-	-	-	3976	13226	15371	12280	..
Total consumption	8119 e	19997 e	135470	174304	147570	97903	92829	..
Energy industry consumption²	-	-	-	-	-	-	-	..
Coal Mines	-	-	-	-	-	-	-	..
Oil + Gas Extraction	-	-	-	-	-	-	-	..
Patent Fuel Plants	-	-	-	-	-	-	-	..
Coke Ovens	-	-	-	-	-	-	-	..
BKB plants	-	-	-	-	-	-	-	..
Gas Works	-	-	-	-	-	-	-	..
Blast Furnaces	-	-	-	-	-	-	-	..
Oil Refineries	-	-	-	-	-	-	-	..
Nuclear Industry	-	-	-	-	-	-	-	..
Coal Liquefaction Plants	-	-	-	-	-	-	-	..
LNG/Regasification Plants	-	-	-	-	-	-	-	..
Energy - Non Specified	-	-	-	-	-	-	-	..
Final consumption	8119 e	19997 e	135470	174304	147570	97903	92829	..
Industry	-	-	-	-	-	-	-	..
Iron and steel	-	-	-	-	-	-	-	..
Chem. and petrochemical	-	-	-	-	-	-	-	..
Non-ferrous metals	-	-	-	-	-	-	-	..
Non-metallic minerals	-	-	-	-	-	-	-	..
Transport equipment	-	-	-	-	-	-	-	..
Machinery	-	-	-	-	-	-	-	..
Mining and quarrying	-	-	-	-	-	-	-	..
Food and tobacco	-	-	-	-	-	-	-	..
Paper, pulp and printing	-	-	-	-	-	-	-	..
Wood and wood products	-	-	-	-	-	-	-	..
Construction	-	-	-	-	-	-	-	..
Textile and leather	-	-	-	-	-	-	-	..
Non specified/other	-	-	-	-	-	-	-	..
Transport	-	-	-	-	-	-	-	..
Commercial & publ. serv.	-	-	-	-	-	30619	29032	..
Residential	-	-	-	-	-	51565	48893	..
Agriculture	-	-	-	-	-	-	-	..
Fishing	-	-	-	-	-	-	-	..
Sector non specified	8119 e	19997 e	135470	174304	147570	15719	14904	..

1. Heat generation from main activity producer power plants and autoproducers.

2. Energy industry consumption = electricity consumed by transformation industries for heating, traction and lighting purposes;

excludes own use by power plant and electricity used for heat pumps, electric boilers and pumped storage.

France

Table 4a. Gross electricity production by source (TWh)

	1974	1990	2000	2010	2013	2014	2015e	74-00	00-15
Total plants gross production¹	186.86	420.75	539.95	569.10	572.31	562.78	568.18	4.2	0.3
Nuclear	14.70	314.08	415.16	428.52	423.69	436.47	437.43	13.7	0.3
Hydro	56.23	57.42	71.13	67.53	75.87	68.63	59.88	0.9	-1.1
- Of which pumped storage	0.01	3.55	4.77	4.81	5.15	5.80	4.97	26.3	0.3
Geothermal	-	-	-	-	-	-	-	-	-
Solar	-	-	0.01	0.62	4.74	5.91	7.40	-	62.7
Wind	-	-	0.05	9.95	16.03	17.25	21.17	-	50.1
Combustible fuels	115.33	48.75	53.10	62.01	50.88	33.48	41.26	-2.9	-1.7
- Coal	..	35.42	30.86	26.32 e	24.33	12.01	12.37	..	-5.9
- Oil	..	8.67	7.17	5.52	2.55	1.81	1.90	..	-8.5
- Natural gas	..	3.03	11.51	23.76	17.17	12.74	19.72	..	3.7
- Biofuels & waste	..	1.63 e	3.56	6.41	6.82	6.93	7.27	..	4.9
Other ²	0.60	0.50	0.51	0.48	1.11	1.03	1.04	-0.6	4.9
Of which autoproducers	33.27	26.24	15.49	12.69	18.79	18.63	..	-2.9	..
Nuclear	-	-	-	-	-	-	..	-	..
Hydro	3.84	5.00	0.61	0.64	0.74	0.80	..	-6.8	..
- Of which pumped storage	-	-	-	-	-	-	..	-	..
Geothermal	-	-	-	-	-	-	..	-	..
Solar	-	-	0.01	0.52	2.91	3.35	..	-	..
Wind	-	-	0.00	0.48	1.21	1.30	..	-	..
Combustible fuels	29.43	21.24	14.86	11.06	13.23	12.62	..	-2.6	..
- Coal	..	13.15	2.51	1.15 e	1.20	1.24
- Oil	..	3.65	2.43	1.60	1.04	0.91
- Natural gas	..	2.81	6.56	2.58	5.13	4.67
- Biofuels & waste	..	1.63 e	3.36	5.73	5.85	5.80
Other ²	-	-	-	-	0.70	0.55	..	-	..

Table 4b. Gross heat production by source (PJ)

	1974	1990	2000	2010	2013	2014	2015e	74-00	00-15
Total plants heat generation³	8.12 e	20.00 e	135.47	160.80	134.47	122.03	122.03 e	11.4	-0.7
Nuclear	-	-	-	-	-	-	-	-	-
Geothermal	3.20	3.94	3.98	3.98 e	..	-
Combustible fuels	8.12 e	20.00 e	135.47	157.60	130.46	117.78	117.78 e	11.4	-0.9
- Coal	..	-	18.10	11.93 e	10.17	9.31	9.31 e	..	-4.3
- Oil	..	-	33.90	25.83	13.02	9.16	9.16 e	..	-8.4
- Natural gas	..	-	59.48	84.26	65.36	49.85	49.85 e	..	-1.2
- Biofuels & waste	..	20.00	23.99	35.58	41.91	49.45	49.45 e	..	4.9
Chemical processes	-	-	-	-	-	-	-	-	-
Heat pumps	-	-	-	-	0.08	0.27	0.27 e	-	-
Electric boilers	-	-	-	-	-	-	-	-	-
Other sources	-	-	-	-	-	-	-	-	-
Of which Autoproducers	8.12 e	20.00 e	96.87	61.48	26.52	32.52	..	10.0	..
Nuclear	-	-	-	-	-	-	..	-	..
Geothermal	-	0.40	0.55	0.50
Combustible fuels	8.12 e	20.00 e	96.87	61.08	25.95	31.97	..	10.0	..
- Coal	..	-	15.61	11.65 e	0.45	0.46
- Oil	..	-	18.56	16.97	0.21	0.08
- Natural gas	..	-	42.10	11.06	4.14	5.51
- Biofuels & waste	..	20.00	20.59	21.41	21.16	25.92
Chemical processes	-	-	-	-	-	-	..	-	..
Heat pumps	-	-	-	-	0.01	0.05	..	-	..
Electric boilers	-	-	-	-	-	-	..	-	..
Other sources	-	-	-	-	-	-	..	-	..

1. Electricity generated from main activity producer power plants and autoproducers.

2. Includes wave, ocean and other sources (e.g. fuel cells, electricity from chemical heat).

3. Total heat generation = gross production of heat from main activity producer + heat sold in autoproducers.

France

Table 5. Net electricity production by autoproducers (GWh)

	1974	1990	2000	2010	2012	2013	2014	74-00	00-14
Total	27928 e	24977	14636	12059	20899	18029	17904	-2.5	1.4
Total energy	-	12831	1487	1599	3326	2333	2216	-	2.9
Coal mines	-	-	-	-	-	-	-	-	-
Oil and gas extraction	-	-	-	-	-	-	-	-	-
Patent fuel plants	-	-	-	-	-	-	-	-	-
Coke ovens	-	-	-	-	-	-	-	-	-
Gas works	-	-	-	-	-	-	-	-	-
BKB	-	-	1487	1599	3326	2333	2215	-	2.9
Oil refineries	-	-	-	-	-	-	-	-	-
Energy non specified/other	-	-	-	-	-	-	-	-	-
Total industry	27928 e	9549	9098	6418	7584	5018	4933	-4.2	-4.3
Iron and steel	4347 e	2381	1354	1049	890	622	695	-4.4	-4.7
Chemical and petrochemical	5029 e	4218	3253	1851	2626	846	806	-1.7	-9.5
Non-ferrous metals	182 e	280	18	9	14	-	-	-8.5	-
Non-metallic minerals	1 e	-	8	11	15	160	13	8.3	3.5
Transport equipment	262 e	220	331	209	287	52	48	0.9	-12.9
Machinery	-	-	62	25	31	2	26	-	-6.0
Mining and quarrying	14813 e	254	27	24	29	104	117	-21.5	11.0
Food and tobacco	659 e	667	1208	824	1205	1606	1565	2.4	1.9
Pulp and printing	-	1450	2180	2000	2059	1357	1406	-	-3.1
Wood and wood products	1940 e	-	28	31	47	96	90	-15.0	8.7
Construction	-	-	275	244	319	104	101	-	-6.9
Textile and leather	541 e	79	19	2	3	5	5	-12.1	-9.1
Non specified/other industries	154 e	-	335	139	59	64	61	3.0	-11.5
Total transport	-	1007	-	-	-	-	-	-	-
Rail	-	-	-	-	-	-	-	-	-
Pipeline	-	-	-	-	-	-	-	-	-
Transport non specified	-	1007	-	-	-	-	-	-	-
Other	-	1590	4051	4042	9989	10678	10755	-	7.2
Commerce and pub. services	-	-	4037	4029	5216	1073	1112	-	-8.8
Residential	-	-	-	-	-	-	-	-	-
Agriculture	-	-	14	13	20	85	96	-	14.7
Fishing	-	-	-	-	-	-	-	-	-
Sector non specified	-	1590	-	-	4753	9520	9547	-	-

Notes: Data reported in this table prior to 1990 may refer to combustible fuels only.

France

Table 6a. Electricity production from combustible fuels in electricity plants¹

	1990	2000	2005	2010	2012	2013	2014	90-00	00-14
Steam coal									
Fuel input (1000 t)	11028	9591	9525	7038	6620	7880	3365	-1.4	-7.2
Fuel input (TJ)	281299 e	249381	247655	201066	162199	193061	82443	-1.2	-7.6
Electricity production (GWh)	29053	25525	26714	22867	17576	21426	9071	-1.3	-7.1
Lignite									
Fuel input (1000 t)	1843	267	-	-	-	-	-	-17.6	-
Fuel input (TJ)	32174 e	4905	-	-	-	-	-	-17.1	-
Electricity production (GWh)	2420	409	-	-	-	-	-	-16.3	-
Coal manufactured gases²									
Fuel input (TJ)	39312	39697	32454	26123	27395	30022	29335	0.1	-2.1
Electricity production (GWh)	3950	3738	3094	2913 e	2574	2364	2446	-0.6	-3.0
Other coal products³									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
Oil and petroleum products									
Fuel input (1000 t)	1704	1460	1633	1348	950	663	428	-1.5	-8.4
Fuel input (TJ)	69853	56284	65567	55733	39178	27615	17862	-2.1	-7.9
Electricity production (GWh)	8668	5441	6546	4717	3120	2017	1241	-4.5	-10.0
Natural gas²									
Fuel input (TJ)	20319	10868	24235	150426	68511	62103	34117	-6.1	8.5
Electricity production (GWh)	3027	797	2586	10213	7432	5520	3429	-12.5	11.0
Solid biofuels									
Fuel input (TJ)	-	1789	12222	22134	1358	1631	1580	-	-0.9
Electricity production (GWh)	-	278	441	374	39	69	95	-	-7.4
Industrial waste									
Fuel input (TJ)	-	-	-	-	-	1359	1884	-	-
Electricity production (GWh)	-	-	-	-	-	90	109	-	-
Municipal waste									
Fuel input (TJ)	5316	13992	34840	39340	44282	42868	39984	10.2	7.8
Electricity production (GWh)	443	974	2120	2392	2566	2438	2294	8.2	6.3
Biogases and liquid biofuels									
Fuel input (TJ)	421	2547	5558	8427	8300	8315	7105	19.7	7.6
Electricity production (GWh)	32	255	446	722	755	774	654	23.1	7.0
Total combustible fuels									
Electricity production (GWh)	47593	37417	41947	44198 e	34062	34698	19339	-2.4	-4.6

1. Excludes CHP plants.

2. Coal manufactured gases and natural gas are expressed on a gross calorific value basis.

3. Includes Coking coal as well as peat and peat products, patent fuels, BKB and shale oil

France

**Table 6b. Electricity and heat produced for sale from combustible fuels
in combined heat and power plants (CHP plants)**

	1990	2000	2005	2010	2012	2013	2014	90-00	00-14
Steam coal									
Fuel input (1000 t)	-	833	788	558	500	143	129	-	-12.5
Fuel input (TJ)	-	21669	20426	15932	12241	3504	3161	-	-12.8
Electricity production (GWh)	-	1070	801	492	1346	512	453	-	-6.0
CHP Heat production (TJ)	-	15533	13718	10864	-	919	961	-	-18.0
Lignite									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
CHP Heat production (TJ)	-	-	-	-	-	-	-	-	-
Coal manufactured gases¹									
Fuel input (TJ)	-	3380	3350	1958	140	126	167	-	-19.3
Electricity production (GWh)	-	118	96	43	37	30	44	-	-6.8
CHP Heat production (TJ)	-	2568	2878	1065 e	-	-	-	-	-
Other coal products²									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
CHP Heat production (TJ)	-	-	-	-	-	-	-	-	-
Petroleum products									
Fuel input (1000 t)	-	1204	1068	860	544	246	221	-	-11.4
Fuel input (TJ)	-	61492	53011	41726	23600	10747	9752	-	-12.3
Electricity production (GWh)	-	1724	1379	806	3093	532	565	-	-7.7
CHP Heat production (TJ)	-	33897	28537	25827	4962	7602	7197	-	-10.5
Natural gas¹									
Fuel input (TJ)	-	128689	229898	199509	141138	104254	80810	-	-3.3
Electricity production (GWh)	-	10717	20483	13545	14384	11654	9309	-	-1.0
CHP Heat production (TJ)	-	59480	107537	84262	49749	38006	29105	-	-5.0
Solid Biofuels									
Fuel input (TJ)	6780	5230	14463	29460	38040	37437	43290	-2.6	16.3
Electricity production (GWh)	1116 e	812	813	1089	1382	1298	1543	-3.1	4.7
CHP Heat production (TJ)	-	-	264	8349	11526	13298	15049	-	-
Industrial waste									
Fuel input (TJ)	-	-	-	-	-	620	1033	-	-
Electricity production (GWh)	-	-	-	-	-	57	55	-	-
CHP Heat production (TJ)	-	-	-	-	-	102	214	-	-
Municipal waste									
Fuel input (TJ)	-	37964	36152	38244	38084	35792	38418	-	0.1
Electricity production (GWh)	-	1188	1194	1554	1888	1364	1354	-	0.9
CHP Heat production (TJ)	-	17814	16292	16330	17348	14256	17914	-	0.0
Biogases and liquid biofuels									
Fuel input (TJ)	291	287	197	2753	4469	5899	6891	-0.1	25.5
Electricity production (GWh)	40	53	34	283	530	732	822	2.9	21.6
CHP Heat production (TJ)	-	-	8	230	389	602	792	-	-
Total combustible fuels									
Electricity production (GWh)	1156 e	15682	24800	17812	22660	16179	14145	29.8	-0.7
CHP Heat production (TJ)	-	129292	169234	146927 e	83974	74785	71232	-	-4.2

1. Coal manufactured gases and natural gas are expressed on a gross calorific value basis.

2. Includes Coking coal as well as peat and peat products, patent fuels, BKB and shale oil

France

Table 6c. Heat produced for sale from combustible fuels in heat plants¹

	1990	2000	2005	2010	2012	2013	2014	90-00	00-14
Steam coal									
Fuel input (1000 t)	-	-	-	-	330	417	365	-	-
Fuel input (TJ)	-	-	-	-	8085	10217	8943	-	-
Heat production (TJ)	-	-	-	-	7518	9252	8350	-	-
Lignite									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Heat production (TJ)	-	-	-	-	-	-	-	-	-
Coal manufactured gases²									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Heat production (TJ)	-	-	-	-	-	-	-	-	-
Other coal products³									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Heat production (TJ)	-	-	-	-	-	-	-	-	-
Petroleum products									
Fuel input (1000 t)	-	-	-	-	147	149	65	-	-
Fuel input (TJ)	-	-	-	-	5824	6142	2610	-	-
Heat production (TJ)	-	-	-	-	4977	5414	1962	-	-
Natural gas²									
Fuel input (TJ)	-	-	-	-	30402	33767	25615	-	-
Heat production (TJ)	-	-	-	-	24624	27351	20749	-	-
Solid biofuels									
Fuel input (TJ)	-	-	-	4971	7725	10353	12474	-	-
Heat production (TJ)	-	-	-	4283	6643	8897	10724	-	-
Industrial waste									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Heat production (TJ)	-	-	-	-	-	-	-	-	-
Municipal waste									
Fuel input (TJ)	42666	13082	11710	13818	10306	9342	9342	-11.1	-2.4
Heat production (TJ)	19997	6178	5534	6268	4776	4656	4656	-11.1	-2.0
Biogases and liquid biofuels									
Fuel input (TJ)	-	-	-	148	127	127	127	-	-
Heat production (TJ)	-	-	-	119	102	102	102	-	-
Total combustible fuels									
Heat production (TJ)	19997	6178	5534	10670	48640	55672	46543	-11.1	15.5

1. Excludes CHP plants

2. Coal manufactured gases and natural gas are expressed on a gross calorific value basis.

3. Includes Coking coal as well as peat and peat products, patent fuels, BKB and shale oil

France

Table 7. Net maximum electricity generating capacity on 31 December (GW)

	1974	1990	2000	2005	2010	2012	2013	2014
Total capacity¹	45.38	103.34	114.67	115.76	124.55	129.25	128.43	129.07
Nuclear	2.89	55.75	63.18	63.26	63.13 e	63.13 e	63.13 e	63.13
Hydro	16.09	24.67	25.13	25.11	25.40	25.37	25.36	25.29
of which: pumped storage	0.08	6.96	7.48	7.30	7.25	7.25	7.25	7.17
Geothermal	-	-	-	-	-	-	-	-
Solar PV	-	-	0.01	0.01	1.04	3.97	4.65	5.65
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	0.24	0.24	0.24	0.24	0.24 e	0.24 e	0.24 e	0.24
Wind	-	-	0.04	0.69	5.91	7.52	8.20	9.07
Other (e.g. fuel cells)	-	-	-	-	-	1.27	1.27	1.27
Combustible fuels	26.16	22.67	26.07	26.45	28.82	27.76	25.58	24.41
of which ⁽²⁾ :								
<i>Single-fired:</i>								
Coal and Coal products	7.20	5.24	7.91	6.34	5.12
Liquid fuels	9.71	7.86	10.36	8.78	8.88
Natural gas	0.70	0.26	9.49	10.46	10.41
Biofuels & waste	-	-
<i>Multi-fired:</i>								
Solid / liquid	6.55	8.20
Solid / natural gas	0.53	0.29
Liquid / natural gas	1.46	0.32
Solid / liquid / gas	-	0.50
<u>Type of generation</u>								
Steam	-	21.11
Internal combustion	-	0.36
Gas turbine	-	1.20
Combined cycle	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	27.76	25.58	24.41
<u>Peak load</u>	..	63.40	72.39	86.00	96.71	102.10	92.60	82.54
Of which Autoproducers	8.90	8.23	5.40	6.74	7.08	9.05	8.40	8.23
Nuclear	-	-	-	-	-	-	-	-
Hydro	1.22	1.72	0.25	0.27	0.20	0.37	0.21	0.21
of which: pumped storage	-	-	-	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-	-
Solar PV	-	-	0.01	0.01	0.87	2.51	2.88	3.25
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	-	-	0.03	0.36	0.62	0.63	0.75
Other (e.g. fuel cells)	-	-	-	-	-	1.27	1.27	1.27
Combustible fuels	7.68	6.51	5.15	6.43	5.65	4.27	3.41	2.76

1. Sum of available capacity figures

2. Breakdown of electrical capacity by type of fuel are shown in the individual country chapters.

France

Table 8. Capacity factors (%)

	1974	1990	2000	2005	2010	2012	2013	2014
Total plants¹	47.0	46.5	53.8	56.8	52.2	50.0	50.9	49.8
Nuclear	58.1	64.3	75.0	81.5	77.5 e	76.9 e	76.6 e	78.9
Hydro	39.9	26.6	32.3	25.6	30.4	28.6	34.2	31.0
<i>of which: pumped storage</i>	1.6	22.6	29.3	30.8	30.4	30.8	32.5	38.3
Geothermal	-	-	-	-	-	-	-	-
Solar PV	-	-	8.2	9.7	6.8	11.6	11.6	11.9
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	28.4	23.9	24.1	22.9	22.6 e	21.8 e	19.7 e	22.9
Wind	-	-	14.4	15.9	19.2	22.7	22.3	21.7
Other (e.g. fuel cells)	-	-	-	-	-	5.3	6.3	5.0
Combustible fuels	50.3	24.5	23.3	28.8	24.6	23.3	22.7	15.7
Of which autoproducers	42.7	36.4	32.7	36.6	20.5	27.6	25.5	25.8
Nuclear	-	-	-	-	-	-	-	-
Hydro	35.8	33.2	28.5	22.8	36.1	20.4	41.0	43.5
<i>of which: pumped storage</i>	-	-	-	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-	-
Solar PV	-	-	8.2	12.6	6.8	11.5	11.5	11.8
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	-	15.2	24.4	15.0	16.2	22.0	19.9
Other (e.g. fuel cells)	-	-	-	-	-	5.3	6.3	5.0
Combustible fuels	43.8	37.2	33.0	37.3	22.4	46.0	44.2	52.3

1. The capacity factor is defined as: the annual gross electricity generation (in GWh) divided by the net capacity (in GW) times 365 (days/year) times 24 (hours/day)

France**Table 9a. Electricity imports by origin (GWh)**

	1974	1990	2000	2005	2010	2012	2013	2014
Total imports	6394	6674	3695	8062	19475	12213	11687	7873
Total from OECD	6365	6674	3695	8062	19475	12213	11687	7873
Austria	-	-	-	-	-	-	-	-
Belgium	1206	3544	202	2219	5389	2333	2429	960
Canada	-	-	-	-	-	-	-	-
Czech Republic	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-
Germany	2456	534	618	782	791	1054	1195	824
Greece	-	-	-	-	-	-	-	-
Hungary	-	-	-	-	-	-	-	-
Ireland	-	-	-	-	-	-	-	-
Italy	266	183	392	697	437	1208	882	732
Luxembourg	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-
Poland	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-
Slovak Republic	-	-	-	-	-	-	-	-
Slovenia	-	-	-	-	-	-	-	-
Spain	1438	1873	595	752	3501	3027	3171	2382
Sweden	-	-	-	-	-	-	-	-
Switzerland	879	495	1888	2820	5247	3401	3464	2961
Turkey	-	-	-	-	-	-	-	-
United Kingdom	120	45	-	792	4110	1190	546	14
United States	-	-	-	-	-	-	-	-
Total from non-OECD	-	-	-	-	-	-	-	-
Albania	-	-	-	-	-	-	-	-
Azerbaijan	-	-	-	-	-	-	-	-
Belarus	-	-	-	-	-	-	-	-
Bulgaria	-	-	-	-	-	-	-	-
Croatia	-	-	-	-	-	-	-	-
F.Y.R. of Macedonia	-	-	-	-	-	-	-	-
Georgia	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-
Romania	-	-	-	-	-	-	-	-
Russian Federation	-	-	-	-	-	-	-	-
Serbia	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-
Turkmenistan	-	-	-	-	-	-	-	-
Ukraine	-	-	-	-	-	-	-	-
Non-specified/others	29	-	-	-	-	-	-	-

France**Table 9b. Electricity exports by destination (GWh)**

	1974	1990	2000	2005	2010	2012	2013	2014
Total exports	6499	52112	73174	68390	50188	56734	60148	75063
Total to OECD	6499	51935	73093	68390	49968	56509	59964	74854
Austria	-	-	-	-	-	-	-	-
Belgium	883	2312	8512	6893	3182	7474	8801	11238
Canada	-	-	-	-	-	-	-	-
Czech Republic	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-
Germany	2078	8666	15653	16525	15132	13492	11768	14786
Greece	-	-	-	-	-	-	-	-
Hungary	-	-	-	-	-	-	-	-
Ireland	-	-	-	-	-	-	-	-
Italy	1149	15441	16126	14469	11656	12599	12680	15519
Luxembourg	-	-	42	-	-	-	293	1112
Mexico	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-
Poland	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-
Slovak Republic	-	-	-	-	-	-	-	-
Slovenia	-	-	-	-	-	-	-	-
Spain	384	1513	8504	7564	2000	4918	4887	5956
Sweden	-	-	-	-	-	-	-	-
Switzerland	1845	12078	9559	10465	9705	9587	9823	10346
Turkey	-	-	-	-	-	-	-	-
United Kingdom	160	11925	14697	12474	8293	8439	11712	15897
United States	-	-	-	-	-	-	-	-
Total to non-OECD	-	-	-	-	-	-	-	-
Albania	-	-	-	-	-	-	-	-
Azerbaijan	-	-	-	-	-	-	-	-
Belarus	-	-	-	-	-	-	-	-
Bulgaria	-	-	-	-	-	-	-	-
Croatia	-	-	-	-	-	-	-	-
F.Y.R. of Macedonia	-	-	-	-	-	-	-	-
Georgia	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-
Romania	-	-	-	-	-	-	-	-
Russian Federation	-	-	-	-	-	-	-	-
Serbia	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-
Turkmenistan	-	-	-	-	-	-	-	-
Ukraine	-	-	-	-	-	-	-	-
Non-specified/others	-	177	81	-	220	225	184	209

France

Table 10a. Share of electricity in total final consumption (%)

	1974	1990	2000	2005	2010	2012	2013	2014
Share of total final consumption	9.9	18.2	20.3	21.6	23.7	24.2	24.1	24.2
Industry	17.6	29.9	34.0	38.5	38.0	37.5	34.1	37.0
Iron and steel	14.3	18.5	35.7	31.3	24.5	26.9	28.4	38.1
Chem. and petrochemical	32.0	37.1	40.6	42.6	61.7	55.1	34.4	37.2
Non-ferrous metals	41.4	54.1	56.9	62.3	72.8	58.4	63.2	65.3
Non-metallic minerals	14.8	13.6	18.9	17.7	21.0	18.3	16.9	20.1
Transport equipment	45.0	79.6	48.1	51.1	57.2	58.7	49.5	45.8
Machinery	38.5	38.9	51.6	48.4	61.2	59.8	54.6	50.9
Mining and quarrying	13.7	51.3	68.6	42.9	19.6	21.7	51.0	31.8
Food and tobacco	13.0	31.7	30.3	39.5	36.2	37.0	36.3	40.6
Paper, pulp and printing	17.7	27.4	33.0	35.4	31.7	32.7	31.1	30.0
Wood and wood products	12.9	29.1	17.7	42.3	32.1	36.6	31.1	55.8
Construction	2.1	16.7	11.4	9.6	16.6	17.8	22.1	18.0
Textile and leather	28.5	36.3	18.8	39.0	46.2	41.1	41.8	45.2
Non specified/other	1.0	4.1	32.4	73.8	19.3	25.4	41.7	43.0
Transport	2.3	2.0	2.2	2.4	2.5	2.5	2.5	2.5
Rail Transport	42.2	59.8	67.3	78.0	81.3	81.6	82.3	83.5
Pipeline Transport	-	-	-	100.0	-	-	-	-
Road	-	-	-	-	-	-	-	-
Transport Non Specified	-	100.0	98.8	100.0	100.0	100.0	100.0	100.0
Other sectors	9.8	26.4	30.5	30.6	35.2	37.6	37.6	39.0
Commercial & publ. serv.	7.9	37.8	49.3	51.4	53.3	52.9	51.5	53.9
Residential	13.7	23.3	27.2	27.7	32.3	32.9	33.3	34.4
Agriculture	3.5	5.2	6.1	14.8	15.7	16.9	17.5	17.6
Fishing	-	-	-	2.3	3.3	3.0	3.5	3.7
Sector non specified	2.7	5.4	6.5	2.5 e	3.7	7.6	10.5	10.5

Table 10b. Share of heat in total final consumption (%)

	1974	1990	2000	2005	2010	2012	2013	2014
Share of total final consumption	0.1	0.3	2.0	2.5	2.2	1.6	1.5	1.5
Industry	-	-	-	-	-	0.6	-	-
Iron and steel	-	-	-	-	-	-	-	-
Chem. and petrochemical	-	-	-	-	-	-	-	-
Non-ferrous metals	-	-	-	-	-	-	-	-
Non-metallic minerals	-	-	-	-	-	-	-	-
Transport equipment	-	-	-	-	-	-	-	-
Machinery	-	-	-	-	-	-	-	-
Mining and quarrying	-	-	-	-	-	-	-	-
Food and tobacco	-	-	-	-	-	-	-	-
Paper, pulp and printing	-	-	-	-	-	-	-	-
Wood and wood products	-	-	-	-	-	-	-	-
Construction	-	-	-	-	-	-	-	-
Textile and leather	-	-	-	-	-	-	-	-
Non specified/other	-	-	-	-	-	15.7	-	-
Transport	-	-	-	-	-	-	-	-
Other sectors	0.4	0.8	4.8	5.5	4.6	3.3	3.2	3.5
Commercial & publ. serv.	-	-	-	-	-	3.2	3.2	3.3
Residential	-	-	-	-	-	3.0	2.8	3.1
Agriculture	-	-	-	-	-	-	-	-
Fishing	-	-	-	-	-	-	-	-
Sector non specified	75.1 e	94.6 e	78.3	52.5	56.1	21.0	25.5	26.0

Source: IEA/OECD World Energy Balances.

Germany

Figure 1. Total final consumption by fuel

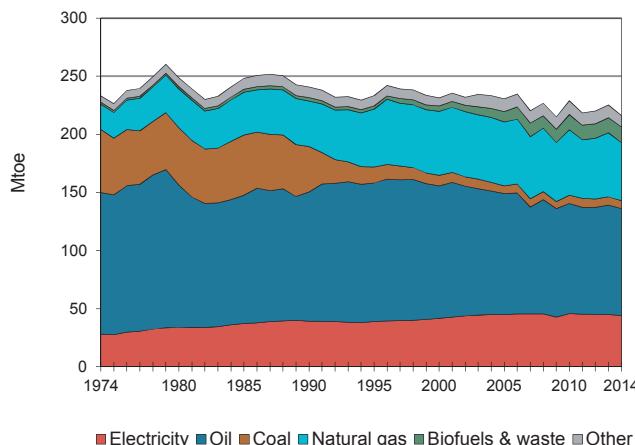


Figure 2. Electricity generation by fuel

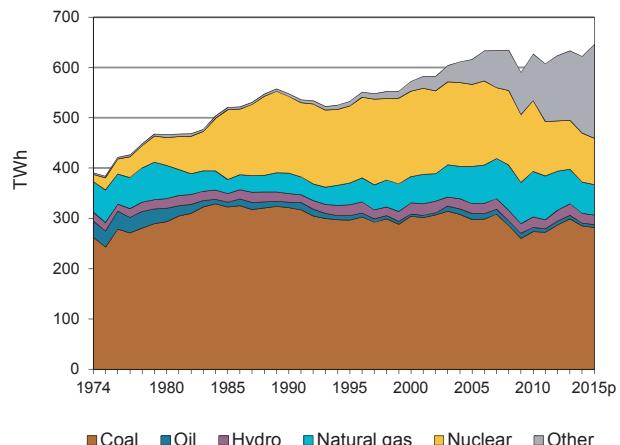


Figure 3. Electricity consumption by sector

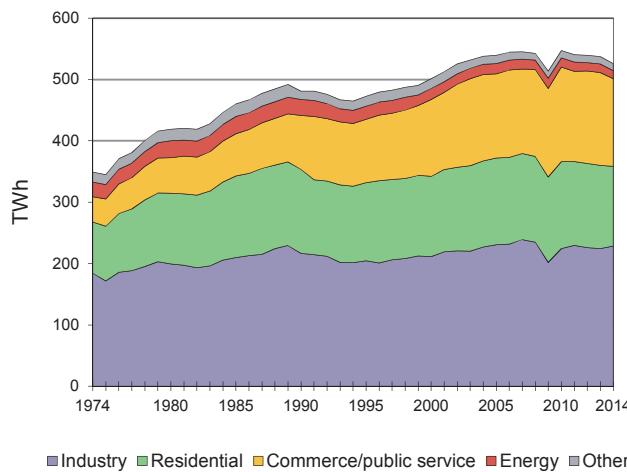


Figure 4. Electricity indicators

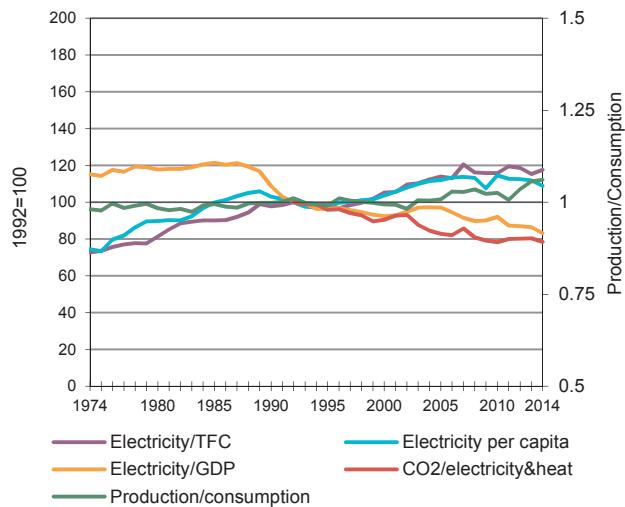
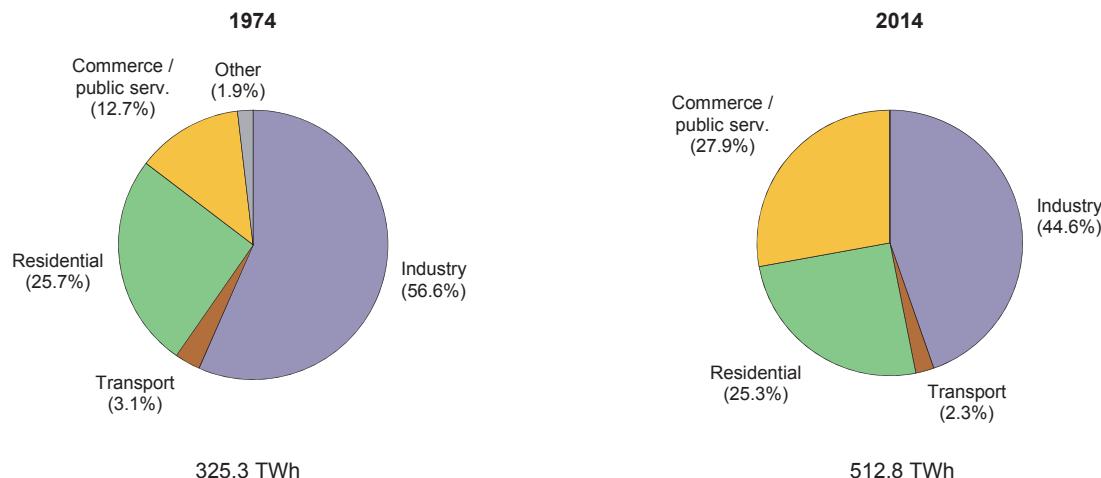


Figure 5. Total final electricity consumption by sector



Germany

Table 1. Energy consumption, GDP and population

	1974	1990	2000	2010	2013	2014	2015p	74-00	00-15
TPES (Mtoe)	328.37	351.20	336.58	326.87	317.71	306.07	311.84	0.1	-0.5
GDP (billion 2005 USD)	1744.37	2568.63	3123.91	3417.10	3567.11	3624.17	3685.34	2.3	1.1
TPES/GDP ¹	0.19	0.14	0.11	0.10	0.09	0.08	0.08	-2.1	-1.6
Population (millions)	78.98	79.36	81.46	80.28	80.65	80.98	81.56	0.1	0.0
TPES/population ²	4.16	4.43	4.13	4.07	3.94	3.78	3.82	-0.0	-0.5
TPES/GDP (2005 = 100)	180	130	103	91	85	81	81	-2.1	-1.6
Ele.TFC/GDP(2005=100) ³	115	109	95	96	90	87	..	-0.7	..
Ele.TFC/population ⁴	4120	5736	5937	6634	6490	6335	..	1.4	..
Elec. generated (TWh) ⁵	390.56	547.65	572.31	626.58	632.95	621.94	645.58	1.5	0.8

Source: IEA/OECD *World Energy Balances* and OECD *Main Economic Indicators*.

Table 2. Total primary energy supply (TPES) by source

	1974	1990	2000	2010	2013	2014	2015p	74-00	00-15
TPES (Mtoe)	328.37	351.20	336.58	326.87	317.71	306.07	311.84	0.1	-0.5
Coal	138.27	128.57	84.81	78.95	81.64	79.60	79.65	-1.9	-0.4
Oil	144.64	121.44	124.81	105.23	102.90	101.01	101.29	-0.6	-1.4
Natural gas	36.20	54.96	71.83	75.88	73.08	63.36	67.94	2.7	-0.4
Biofuels & waste	3.36	4.80	7.87	24.84	27.68	29.18	29.78	3.3	9.3
Nuclear	3.77	39.84	44.20	36.63	25.35	25.31	23.92	9.9	-4.0
Geothermal	-	-	-	0.09	0.15	0.18	0.24	-	-
Solar, wind, tide ⁶	-	0.02	0.92	4.74	7.70	8.66	11.54	-	18.4
Hydro	1.52	1.50	1.87	1.80	1.98	1.68	1.63	0.8	-0.9
Net electricity imports ⁷	0.60	0.08	0.26	-1.29	-2.77	-2.91	-4.15	-3.1	-
Heat	-	-0.00	-0.00	-0.01	-0.00	-0.00	-0.00	-	0.2

Source: IEA/OECD *World Energy Balances*.

1. In units of toe/2005 thousand US dollars.

2. In units of toe/per capita.

3. Ele.TFC = electricity total final consumption.

4. In units of kWh/per capita.

5. Electricity generated = gross production - amount of electricity produced in pumped storage plants.

6. Includes wave, ocean and other (e.g. fuel cells).

7. Net Imports = total imports - total exports

Germany**Table 3a. Summary electricity production and consumption¹ (TWh)**

	1974	1990	2000	2005	2010	2013	2014	2015e
Gross production	392.14	550.02	576.54	622.58	632.98	638.73	627.80	651.50
- Own use by power plant	26.69	41.43	38.05	39.84	38.15	36.91	35.84	-
Net production	365.44	508.58	538.49	582.74	594.83	601.82	591.95	-
- Used for heat pumps	-	-	-	-	-	-	-	-
- Used for electric boilers	-	-	-	-	-	-	-	-
- Used for pumped storage	3.74	4.98	6.04	9.51	8.62	7.82	8.00	8.06
+ Imports	17.66	31.67	45.13	56.86	42.96	39.22	40.44	37.01
- Exports	10.64	30.74	42.08	61.43	57.92	71.42	74.32	85.29
Electrical energy supplied	368.73	504.53	535.50	568.66	571.26	561.81	550.06	..
- Transmission & distr. losses	19.85	23.53	34.09	29.33	23.97	24.47	24.16	..
- Statistical difference	-	-	-	-	-	-	0.00	..
Total consumption	348.88	481.00	501.41	539.33	547.28	537.33	525.90	..
Energy industry consumption²	23.58	25.92	17.96	17.06	14.86	14.13	13.07	..
Coal Mines	9.94	6.77	4.88	4.03	2.66	1.11	1.03	..
Oil + Gas Extraction	0.41	0.50	0.44	0.62	0.57	0.61	0.62	..
Patent Fuel Plants	-	-	-	-	-	-	-	..
Coke Ovens	0.57	1.18	0.39	0.32	0.31	0.30	0.30	..
BKB plants	4.43	8.92	4.88	4.77	4.88	4.87	4.88	..
Gas Works	2.47	1.40	-	-	-	-	-	..
Blast Furnaces	-	-	-	-	-	-	-	..
Oil Refineries	5.76	6.85	7.27	7.33	6.43	7.24	6.24	..
Nuclear Industry	-	-	0.07	-	-	-	-	..
Coal Liquefaction Plants	-	-	-	-	-	-	-	..
LNG/Regasification Plants	-	-	-	-	-	-	-	..
Energy - Non Specified	-	0.31	0.02	-	-	-	-	..
Final consumption	325.31	455.08	483.45	522.26	532.42	523.20	512.84	..
Industry	184.07	216.48	211.59	230.56	224.53	224.27	228.77	..
Iron and steel	29.18	27.37	23.65	27.65	27.09	26.14	26.32	..
Chem. and petrochemical	66.08	62.50	48.34	52.86	52.34	51.73	53.49	..
Non-ferrous metals	17.26	19.86	18.50	17.90	13.65	12.86	13.42	..
Non-metallic minerals	9.64	11.59	14.83	12.46	12.23	12.23	12.12	..
Transport equipment	7.29	13.69	18.99	19.68	17.84	18.32	18.54	..
Machinery	8.87	12.49	10.24	24.29	32.91	37.20	39.30	..
Mining and quarrying	5.55	6.45	2.06	1.90	2.16	1.75	1.77	..
Food and tobacco	7.42	12.05	14.70	16.91	17.53	17.82	18.07	..
Paper, pulp and printing	10.49	16.95	21.77	26.85	24.30	22.34	21.93	..
Wood and wood products	2.46	3.46	4.01	4.41	4.51	4.32	4.28	..
Construction	0.54	0.70	0.81	-	-	-	-	..
Textile and leather	6.68	7.11	4.30	3.36	2.48	2.24	2.19	..
Non specified/other	12.63	22.27	29.41	22.30	17.50	17.31	17.34	..
Transport	9.98	13.67	15.91	13.17	12.12	11.99	11.59	..
Rail Transport	9.98	13.67	15.91	13.12	12.06	11.89	11.47	..
Pipeline Transport	-	-	-	-	-	-	-	..
Road	-	-	-	0.05	0.06	0.10	0.13	..
Transport Non Specified	-	-	-	-	-	-	-	..
Commercial & publ. serv.	83.64	137.05	130.50	141.30	141.70	136.00	129.60	..
Residential	41.48	87.88	125.45	137.24	154.08	150.95	142.87	..
Agriculture	6.14	-	-	-	-	-	-	..
Fishing	-	-	-	-	-	-	-	..
Sector non specified	-	-	-	-	-	-	-	..

1. Electricity generation from main activity producer power plants and autoproducers .

2. Energy industry consumption = electricity consumed by transformation industries for heating, traction and lighting purposes;

excludes own use by power plant and electricity used for heat pumps, electric boilers and pumped storage.

Germany

Table 3b. Summary heat production and consumption¹ (TJ)

	1974	1990	2000	2005	2010	2013	2014	2015e
Gross production	265560	448383	315920 e	493999	515168	488311	438340	462644
- Own use by power plant	-	-	-	-	-	-	-	-
Net production	265560	448383	315920 e	493999	515168	488311	438340	-
- Used for electricity production	-	-	-	-	-	-	-	-
+ Imports	-	-	-	-	-	-	-	-
- Exports	-	122 e	144 e	252	266	159	141	149
Heat energy supplied	265560	448261	315776 e	493747	514902	488152	438199	..
- Transmission & distr. losses	8675	49439	24631 e	39056	39420	41948	43650	..
- Statistical difference	-	-	-	-	-	-	-	..
Total consumption	256885	398822	291145 e	454691	475482	446204	394549	..
Energy industry consumption²	27960	15709	5160 e	4555	3715	11384	11453	..
Coal Mines	14273	5393	2105 e	669	445	257	169	..
Oil + Gas Extraction	-	-	-	3	25	28	28	..
Patent Fuel Plants	-	-	-	-	-	-	-	..
Coke Ovens	9525	909	1159 e	-	-	-	-	..
BKB plants	-	-	-	1151	435	4707	5644	..
Gas Works	4162	6418	-	-	-	-	-	..
Blast Furnaces	-	-	-	-	-	-	-	..
Oil Refineries	-	2989	1896 e	2732	2810	6392	5612	..
Nuclear Industry	-	-	-	-	-	-	-	..
Coal Liquefaction Plants	-	-	-	-	-	-	-	..
LNG/Regasification Plants	-	-	-	-	-	-	-	..
Energy - Non Specified	-	-	-	-	-	-	-	..
Final consumption	228925	383113	285985 e	450136	471767	434820	383096	..
Industry	64947	100848	37701 e	113573	146022	189588	174206	..
Iron and steel	2931	3869	-	416	1774	1864	2028	..
Chem. and petrochemical	13189	24707	10246 e	47059	75475	98623	94742	..
Non-ferrous metals	-	967	307 e	519	2571	668	478	..
Non-metallic minerals	586	3722	1098 e	619	608	731	670	..
Transport equipment	440	10492	6380 e	20246	15937	19577	15653	..
Machinery	1319	17438	-	15979	13136	11912	11008	..
Mining and quarrying	-	88	213 e	34	56	52	51	..
Food and tobacco	11430	13335	3055 e	6305	5601	9904	10334	..
Paper, pulp and printing	293	3927	1949 e	12026	17725	31907	28881	..
Wood and wood products	-	-	-	1864	4184	6055	3482	..
Construction	-	-	-	-	-	-	-	..
Textile and leather	3517	3136	-	904	2521	766	676	..
Non specified/other	31242	19167	14453 e	7602	6434	7529	6203	..
Transport	-	-	-	-	-	-	-	..
Commercial & publ. serv.	-	-	-	113188	136861	60746	55548	..
Residential	163978	282265	248284 e	223375	188884	184486	153342	..
Agriculture	-	-	-	-	-	-	-	..
Fishing	-	-	-	-	-	-	-	..
Sector non specified	-	-	-	-	-	-	-	..

1. Heat generation from main activity producer power plants and autoproducers.

2. Energy industry consumption = electricity consumed by transformation industries for heating, traction and lighting purposes;

excludes own use by power plant and electricity used for heat pumps, electric boilers and pumped storage.

Germany

Table 4a. Gross electricity production by source (TWh)

	1974	1990	2000	2010	2013	2014	2015e	74-00	00-15
Total plants gross production¹	392.14	550.02	576.54 e	632.98	638.73	627.80	651.50	1.5	0.8
Nuclear	14.46	152.47	169.61	140.56	97.29	97.13	91.79	9.9	-4.0
Hydro	19.21	19.79	25.96	27.35	28.78	25.44	24.90	1.2	-0.3
- Of which pumped storage	1.57	2.37	4.23	6.40	5.78	5.86	5.92	3.9	2.3
Geothermal	-	-	-	0.03	0.08	0.10	0.13	-	-
Solar	-	0.00	0.06	11.73	31.01	36.06	38.43	-	53.9
Wind	-	0.07	9.35	37.79	51.71	57.36	87.98	-	16.1
Combustible fuels	358.46	377.68	371.56 e	413.21	428.09	409.69	406.12	0.1	0.6
- Coal	..	321.64	304.16 e	273.46	299.01	284.91	281.96	-	-0.5
- Oil	..	10.40	4.79	8.74	7.20	5.66	5.65	..	1.1
- Natural gas	..	40.46	52.50	90.35	68.74	62.27	60.77	..	1.0
- Biofuels & waste	..	5.19	10.12 e	40.66	53.15	56.85	57.73	-	12.3
Other ²	-	-	-	2.32	1.77	2.02	2.16	-	-
Of which autoproducers	104.66	83.93	48.91	52.97	44.89	45.45	..	-2.9	..
Nuclear	-	1.10	-	-	-	-	..	-	..
Hydro	2.40	2.04	..	0.38	0.18	0.16
- Of which pumped storage	-	-	-	-	-	-	..	-	..
Geothermal	-	-	-	-	-	-	..	-	..
Solar	-	-	..	0.01	-	-
Wind	-	0.02	..	0.09	-	-
Combustible fuels	102.26	80.77	48.91	50.87	43.47	43.87	..	-2.8	..
- Coal	..	58.94	24.56	19.87	12.37	12.19
- Oil	..	3.94	3.17	5.47	4.58	3.95
- Natural gas	..	15.26	16.44	21.48	21.54	22.60
- Biofuels & waste	..	2.63	4.75	4.06	4.98	5.14
Other ²	-	-	-	1.63	1.24	1.41	..	-	..

Table 4b. Gross heat production by source (PJ)

	1974	1990	2000	2010	2013	2014	2015e	74-00	00-15
Total plants heat generation³	265.56	448.38	315.92	515.17	488.31	438.34	462.64	0.7	2.6
Nuclear	-	4.28	-	-	-	-	-	-	-
Geothermal	-	-	-	0.23	0.21	0.30	0.64	-	-
Combustible fuels	265.56	444.10	315.92	508.34	480.64	430.98	454.21	0.7	2.5
- Coal	..	288.50	165.91 e	169.45	168.75	146.12	151.49	-	-0.6
- Oil	..	38.30	20.15 e	8.14	5.62	3.82	4.15	-	-10.0
- Natural gas	..	97.53	110.50 e	256.77	212.89	186.31	194.57	-	3.8
- Biofuels & waste	..	19.77	19.37 e	73.97	93.39	94.73	104.00	-	11.9
Chemical processes	-	-	-	-	-	-	-	-	-
Heat pumps	-	-	-	-	-	-	-	-	-
Electric boilers	-	-	-	-	-	-	-	-	-
Other sources	-	-	-	6.61	7.46	7.04	7.79	-	-
Of which Autoproducers	-	-	-	-	-	-	..	-	..
Nuclear	-	-	-	-	-	-	..	-	..
Geothermal	-	-	-	-	-	-	..	-	..
Combustible fuels	-	-	-	-	-	-	..	-	..
- Coal	..	-	-	-	-	-	..	-	..
- Oil	..	-	-	-	-	-	..	-	..
- Natural gas	..	-	-	-	-	-	..	-	..
- Biofuels & waste	..	-	-	-	-	-	..	-	..
Chemical processes	-	-	-	-	-	-	..	-	..
Heat pumps	-	-	-	-	-	-	..	-	..
Electric boilers	-	-	-	-	-	-	..	-	..
Other sources	-	-	-	-	-	-	..	-	..

1. Electricity generated from main activity producer power plants and autoproducers.

2. Includes wave, ocean and other sources (e.g. fuel cells, electricity from chemical heat).

3. Total heat generation = gross production of heat from main activity producer + heat sold in autoproducers.

Germany**Table 5. Net electricity production by autoproducers (GWh)**

	1974	1990	2000	2010	2012	2013	2014	74-00	00-14
Total	97419	77616	45324 e	48937	40643	41426	42178	-2.9	-0.5
Total energy	-	-	-	14633	7459	7133	6397	-	-
Coal mines	-	-	-	6871	210	249	219	-	-
Oil and gas extraction	-	-	-	146	176	146	143	-	-
Patent fuel plants	-	-	-	-	-	-	-	-	-
Coke ovens	-	-	-	1135	1150	943	735	-	-
Gas works	-	-	-	-	-	-	-	-	-
BKB	-	-	-	6481	5923	5795	5300	-	-
Oil refineries	-	-	-	-	-	-	-	-	-
Energy non specified/other	-	-	-	-	-	-	-	-	-
Total industry	70638	56042	45324 e	34304	33184	34293	35781	-1.7	-1.7
Iron and steel	10300	6010	5136	6699	6157	6682	6928	-2.6	2.2
Chemical and petrochemical	24010	15688	17332 e	16222	15390	15376	15326	-1.2	-0.9
Non-ferrous metals	2520	2099	108	62	56	79	105	-11.4	-0.2
Non-metallic minerals	202	125	251	153	198	212	234	0.8	-0.5
Transport equipment	-	440	263	392	439	642	1173	-	11.3
Machinery	-	119	81	196	166	193	227	-	7.6
Mining and quarrying	21711	21405	14020	309	64	74	83	-1.7	-30.7
Food and tobacco	1090	1214	1792	2204	2596	2600	2714	1.9	3.0
Pulp and printing	4930	4714	5486	6414	6153	6310	6626	0.4	1.4
Wood and wood products	-	182	696	1425	1701	1845	1886	-	7.4
Construction	-	-	8	-	-	-
Textile and leather	943	467	151	34	32	31	104	-6.8	-2.6
Non specified/other industries	4932 e	3579 e	-	194	232	249	375	-	-
Total transport	-	-	c	c	c	c	-	c	c
Rail	-	-	-	-	-	-	-	-	-
Pipeline	-	-	-	-	-	-	-	-	-
Transport non specified	-	-	c	c	c	c	-	c	c
Other	26781	21574	-	-	-	-	-	-	-
Commerce and pub. services	-	-	-	-	-	-	-	-	-
Residential	-	-	-	-	-	-	-	-	-
Agriculture	-	-	-	-	-	-	-	-	-
Fishing	-	-	-	-	-	-	-	-	-
Sector non specified	26781	21574	-	-	-	-	-	-	-

Notes: Data reported in this table prior to 1990 may refer to combustible fuels only.

Germany

Table 6a. Electricity production from combustible fuels in electricity plants¹

	1990	2000	2005	2010	2012	2013	2014	90-00	00-14
Steam coal									
Fuel input (1000 t)	30776	35749	28757	29935	28476	36834	33385	1.5	-0.5
Fuel input (TJ)	781473	934919	744996	779367	722626	970981	868660	1.8	-0.5
Electricity production (GWh)	88304	105290	84582	86510	80591	106972	96619	1.8	-0.6
Lignite									
Fuel input (1000 t)	208343	154073	158423	147446	161998	158590	154857	-3.0	0.0
Fuel input (TJ)	1728869	1423744	1421488	1321423	1443576	1422386	1387824	-1.9	-0.2
Electricity production (GWh)	168006	153211 e	147836	139412	153811	153700	149461	-0.9	-0.2
Coal manufactured gases²									
Fuel input (TJ)	106516	73622	76920	88825	84738	91432	87233	-3.6	1.2
Electricity production (GWh)	10764	7475	8690	9447	8926	9818	9664	-3.6	1.9
Other coal products³									
Fuel input (1000 t)	19611	13271	10129	4471	6686	1697	2817	-3.8	-10.5
Fuel input (TJ)	496347	339508	291256	128652	193543	47039	79754	-3.7	-9.8
Electricity production (GWh)	54567	38186	32927	14168	21453	5104	8786	-3.5	-10.0
Oil and petroleum products									
Fuel input (1000 t)	2770	891	1853	1175	1064	1027	840	-10.7	-0.4
Fuel input (TJ)	97100	44684	68865	47033	42187	41640	33988	-7.5	-1.9
Electricity production (GWh)	10397	4785	7730	5834	4703	4454	3105	-7.5	-3.0
Natural gas²									
Fuel input (TJ)	373757	386911	220178	274045	179956	125361	80428	0.3	-10.6
Electricity production (GWh)	40460	52495	23100	34206	23359	15965	10205	2.6	-11.0
Solid biofuels									
Fuel input (TJ)	4644	13805 e	33442	49198	68660	63289	66753	11.5	11.9
Electricity production (GWh)	129	804	3025	4255	5288	5199	5333	20.1	14.5
Industrial waste									
Fuel input (TJ)	20526	43047 e	..	9633	9714	9967	11569	7.7	-9.0
Electricity production (GWh)	2373	3946	..	772	786	715	879	5.2	-10.2
Municipal waste									
Fuel input (TJ)	22942	33723	58026	76460	75418	80646	86486	3.9	7.0
Electricity production (GWh)	2437	3688	4324	6364	6236	6548	7368	4.2	5.1
Biogases and liquid biofuels									
Fuel input (TJ)	6360	18360 e	13371	40959	56574	83995	83945	11.2	11.5
Electricity production (GWh)	247	1683 e	1462	4338	5923	8821	8761	21.2	12.5
Total combustible fuels									
Electricity production (GWh)	377684	371563 e	313676	305306	311076	317296	300181	-0.2	-1.5

1. Excludes CHP plants.

2. Coal manufactured gases and natural gas are expressed on a gross calorific value basis.

3. Includes Coking coal as well as peat and peat products, patent fuels, BKB and shale oil

Germany**Table 6b. Electricity and heat produced for sale from combustible fuels
in combined heat and power plants (CHP plants)**

	1990	2000	2005	2010	2012	2013	2014	90-00	00-14
Steam coal									
Fuel input (1000 t)	3006	3021 e	6542	7190	6237	7865	6551	0.0	5.7
Fuel input (TJ)	87493	80661 e	170092	187334	158674	207336	170698	-0.8	5.5
Electricity production (GWh)	-	-	12407	14450	11823	15126	12713	-	-
CHP Heat production (TJ)	79014	76711 e	86395	96831	82968	110056	90429	-0.3	1.2
Lignite									
Fuel input (1000 t)	24778	9404 e	7021	7474	7507	7766	6878	-9.2	-2.2
Fuel input (TJ)	208667	85482 e	64286	67619	67796	70647	62539	-8.5	-2.2
Electricity production (GWh)	-	-	4747	5097	5188	5355	4744	-	-
CHP Heat production (TJ)	188445	80882 e	31600	33835	33350	35399	31631	-8.1	-6.5
Coal manufactured gases¹									
Fuel input (TJ)	7884	2877 e	8973	8103	6273	6456	5603	-9.6	4.9
Electricity production (GWh)	-	-	882	1113	959	990	836	-	-
CHP Heat production (TJ)	7120	2650 e	2646	341	88	141	129	-9.4	-19.4
Other coal products²									
Fuel input (1000 t)	1371	586 e	2817	1539	2061	1001	1031	-8.1	4.1
Fuel input (TJ)	27071	12226	76612	40116	54188	23124	25249	-7.6	5.3
Electricity production (GWh)	-	-	5643	3259	4262	1946	2088	-	-
CHP Heat production (TJ)	13921	5061 e	37488	18312	25474	9790	11168	-9.6	5.8
Petroleum products									
Fuel input (1000 t)	1165	461	771	550	517	453	423	-8.9	-0.6
Fuel input (TJ)	42409	21206 e	30837	22694	20979	18468	17098	-6.7	-1.5
Electricity production (GWh)	-	-	4267	2907	2924	2744	2554	-	-
CHP Heat production (TJ)	38299	20146 e	2910	1869	1599	1217	881	-6.2	-20.0
Natural gas¹									
Fuel input (TJ)	119996	129240	514061	548547	512307	491600	475335	0.7	9.7
Electricity production (GWh)	-	-	50936	56146	54243	52772	52065	-	-
CHP Heat production (TJ)	97534	66500 e	175424	161379	146151	131276	116670	-3.8	4.1
Solid Biofuels									
Fuel input (TJ)	-	-	35765	63311	67191	67782	69125	-	-
Electricity production (GWh)	-	-	4102	6513	6803	6443	6535	-	-
CHP Heat production (TJ)	-	-	3079	9692	12729	14661	15040	-	-
Industrial waste									
Fuel input (TJ)	-	-	-	16064	15764	9267	10908	-	-
Electricity production (GWh)	-	-	-	833	818	447	484	-	-
CHP Heat production (TJ)	-	-	-	5999	6475	3790	4467	-	-
Municipal waste									
Fuel input (TJ)	21893	23295 e	56772	75984	81460	96714	103094	0.6	11.2
Electricity production (GWh)	-	-	2180	3130	3664	4284	4772	-	-
CHP Heat production (TJ)	19771	19368 e	22712	30828	30762	36136	38756	-0.2	5.1
Biogases and liquid biofuels									
Fuel input (TJ)	-	-	16163	89849	136107	132363	146639	-	-
Electricity production (GWh)	-	-	2515	14453	21664	20691	22716	-	-
CHP Heat production (TJ)	-	-	445	1142	2129	3068	4418	-	-
Total combustible fuels									
Electricity production (GWh)	-	-	87679	107901	112348	110798	109507	-	-
CHP Heat production (TJ)	444104	271318 e	362699	360228	341725	345534	313589	-4.8	1.0

1. Coal manufactured gases and natural gas are expressed on a gross calorific value basis.

2. Includes Coking coal as well as peat and peat products, patent fuels, BKB and shale oil

Germany

Table 6c. Heat produced for sale from combustible fuels in heat plants¹

	1990	2000	2005	2010	2012	2013	2014	90-00	00-14
Steam coal									
Fuel input (1000 t)	-	-	212	887	931	519	440	-	-
Fuel input (TJ)	-	-	5957	24021	23968	13817	11548	-	-
Heat production (TJ)	-	-	7277	15467	11941	10102	8990	-	-
Lignite									
Fuel input (1000 t)	-	-	535	89	111	173	186	-	-
Fuel input (TJ)	-	-	4788	796	988	1620	1667	-	-
Heat production (TJ)	-	-	2486	843	1036	1112	1157	-	-
Coal manufactured gases²									
Fuel input (TJ)	-	-	139	66	913	1044	940	-	-
Heat production (TJ)	-	-	335	68	853	732	656	-	-
Other coal products³									
Fuel input (1000 t)	-	32 e	111	200	301	73	100	-	8.5
Fuel input (TJ)	-	669 e	2891	5324	7300	1741	2406	-	9.6
Heat production (TJ)	-	602 e	3352	3755	3947	1415	1961	-	8.8
Petroleum products									
Fuel input (1000 t)	-	-	193	183	182	136	111	-	-
Fuel input (TJ)	-	-	8120	7667	7341	5542	4501	-	-
Heat production (TJ)	-	-	6419	6275	5806	4399	2942	-	-
Natural gas²									
Fuel input (TJ)	-	55000	130151	122742	99693	112137	95173	-	4.0
Heat production (TJ)	-	44000 e	93010	95389	71345	81617	69641	-	3.3
Solid biofuels									
Fuel input (TJ)	-	-	9000	11003	15765	11171	13670	-	-
Heat production (TJ)	-	-	4945	6179	10493	7697	7461	-	-
Industrial waste									
Fuel input (TJ)	-	-	-	4715	4961	3166	2957	-	-
Heat production (TJ)	-	-	-	3010	3266	1957	1820	-	-
Municipal waste									
Fuel input (TJ)	-	-	16574	33992	42806	37150	34218	-	-
Heat production (TJ)	-	-	8814	16424	22620	24132	20466	-	-
Biogases and liquid biofuels									
Fuel input (TJ)	-	-	539	1166	2084	3502	4213	-	-
Heat production (TJ)	-	-	412	699	1389	1945	2299	-	-
Total combustible fuels									
Heat production (TJ)	-	44602 e	127050	148109	132696	135108	117393	-	7.2

1. Excludes CHP plants

2. Coal manufactured gases and natural gas are expressed on a gross calorific value basis.

3. Includes Coking coal as well as peat and peat products, patent fuels, BKB and shale oil

Germany

Table 7. Net maximum electricity generating capacity on 31 December (GW)

	1974	1990	2000	2005	2010	2012	2013	2014
Total capacity¹	66.20	99.08	118.88	128.61	162.70	177.29	186.12	198.42
Nuclear	3.29	22.41	22.40	20.38	20.47	12.07	12.07	12.07
Hydro	4.81	8.18	9.49	10.86	11.22	11.26	11.24	11.23
<i>of which: pumped storage</i>	-	4.87	5.40	6.72	6.97	6.81	6.81	6.81
Geothermal	-	-	-	-	0.01	0.01	0.02	0.02
Solar PV	-	-	0.11	2.06	17.55	32.64	36.34	38.23
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	0.05	6.10	18.38	27.18	31.30	34.66	39.19
Other (e.g. fuel cells)	-	-	-	0.57	0.45	0.36	0.42	0.45
Combustible fuels	58.09	68.44	80.79	76.38	85.82	89.65	91.37	97.20
<i>of which⁽²⁾:</i>								
<i>Single-fired:</i>								
Coal and Coal products	30.84	26.31	32.66
Liquid fuels	9.06	6.05	4.14
Natural gas	6.63	9.53	14.44
Biofuels & waste	-	0.91	1.94
<i>Multi-fired:</i>								
Solid / liquid	6.85	9.03	9.45
Solid / natural gas	1.49	1.98	2.58
Liquid / natural gas	2.47	9.22	8.67
Solid / liquid / gas	0.75	5.41	6.90
<u>Type of generation</u>								
Steam	-	63.14	70.83
Internal combustion	-	0.23	0.96
Gas turbine	-	5.08	6.28
Combined cycle	-	-	2.73
Other	-	-	-
<u>Peak load</u>	..	73.01	80.85
Of which Autoproducers	15.64	13.55	10.00	8.53	9.90	7.02	9.62	9.81
Nuclear	-	0.15	-	-	-	-	-	-
Hydro	0.46	0.54	c	0.08	0.07	0.07	0.04	0.04
<i>of which: pumped storage</i>	-	0.15	-	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-	-
Solar PV	-	-	-	-	-	-	-	-
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	0.05	c	0.01	0.05	-	-	-
Other (e.g. fuel cells)	-	-	-	0.43	0.30	0.21	0.28	0.31
Combustible fuels	15.18	12.81	10.00	8.00	9.47	6.74	9.30	9.46

1. Sum of available capacity figures

2. Breakdown of electrical capacity by type of fuel are shown in the individual country chapters.

Germany**Table 8. Capacity factors (%)**

	1974	1990	2000	2005	2010	2012	2013	2014
Total plants¹	67.6	63.4	55.4 e	55.3	44.4	40.6	39.2	36.1
Nuclear	50.1	77.7	86.5	91.3	78.4	94.1	92.0	91.8
Hydro	45.6	27.6	31.3	27.8	27.8	28.2	29.2	25.9
<i>of which: pumped storage</i>	-	6.4	10.4	13.7	12.6	12.3	11.7	11.8
Geothermal	-	-	-	-	40.0	23.8	38.1	46.6
Solar PV	-	5.7	6.0	7.1	7.6	9.2	9.7	10.8
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	16.9	17.5	16.9	15.9	18.5	17.0	16.7
Other (e.g. fuel cells)	-	-	-	65.5	59.0	63.9	48.0	51.1
Combustible fuels	70.4	63.0	52.5 e	60.0	55.0	53.9	53.5	48.1
Of which autoproducers	76.4	70.7	55.8	67.1	61.1	71.7	53.3	52.9
Nuclear	-	83.4	-	-	-	-	-	-
Hydro	60.0	43.1	c	52.2	58.3	55.5	49.5	42.0
<i>of which: pumped storage</i>	-	-	-	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-	-
Solar PV	-	-	-	-	26.6	-	-	-
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	5.5	c	46.6	18.9	-	-	-
Other (e.g. fuel cells)	-	-	-	67.4	61.7	71.9	50.5	52.6
Combustible fuels	76.9	72.0	55.8	67.3	61.3	71.9	53.4	53.0

1. The capacity factor is defined as: the annual gross electricity generation (in GWh) divided by the net capacity (in GW) times 365 (days/year) times 24 (hours/day)

Germany**Table 9a. Electricity imports by origin (GWh)**

	1974	1990	2000	2005	2010	2012	2013	2014
Total imports	17662	31669	45134	56861	42962	46268	39222	40435
Total from OECD	-	25127	45134	56861	42962	46268	30665	28587
Austria	-	4092	5942	9103	7986	8221	8842	7144
Belgium	-	-	-	-	-	-	-	-
Canada	-	-	-	-	-	-	-	-
Czech Republic	-	-	8931	13019	9293	8407	9403	6267
Denmark	-	4721	6412	10398	2982	8834	c	c
Estonia	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-
France	-	8626	15352	16239	15132	13210	11606	14777
Germany	-	-	-	-	-	-	-	-
Greece	-	-	-	-	-	-	-	-
Hungary	-	-	-	-	-	-	-	-
Ireland	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-
Luxembourg	-	965	738	1	-	-	-	-
Mexico	-	-	-	-	-	-	-	-
Netherlands	-	1025	898	324	3130	744	274	348
Norway	-	-	-	-	-	-	-	-
Poland	-	-	688	1046	167	172	540	51
Portugal	-	-	-	-	-	-	-	-
Slovak Republic	-	-	-	-	-	-	-	-
Slovenia	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-
Sweden	-	-	654	3364	1081	2909	c	c
Switzerland	-	5698	5519	3367	3191	3771	c	c
Turkey	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-
United States	-	-	-	-	-	-	-	-
Total from non-OECD	-	-	-	-	-	-	-	-
Albania	-	-	-	-	-	-	-	-
Azerbaijan	-	-	-	-	-	-	-	-
Belarus	-	-	-	-	-	-	-	-
Bulgaria	-	-	-	-	-	-	-	-
Croatia	-	-	-	-	-	-	-	-
F.Y.R. of Macedonia	-	-	-	-	-	-	-	-
Georgia	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-
Romania	-	-	-	-	-	-	-	-
Russian Federation	-	-	-	-	-	-	-	-
Serbia	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-
Turkmenistan	-	-	-	-	-	-	-	-
Ukraine	-	-	-	-	-	-	-	-
Non-specified/others	17662	6542	-	-	-	-	8557	11848

Germany**Table 9b. Electricity exports by destination (GWh)**

	1974	1990	2000	2005	2010	2012	2013	2014
Total exports	10639	30739	42077	61427	57917	66810	71415	74320
Total to OECD	-	26011	42077	61427	57917	66810	53095	58034
Austria	-	4453	7386	15464	14816	15971	15529	15679
Belgium	-	-	-	-	-	-	-	-
Canada	-	-	-	-	-	-	-	-
Czech Republic	-	-	231	405	565	2667	2448	3830
Denmark	-	235	545	632	6336	1468	c	c
Estonia	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-
France	-	472	407	494	793	781	1038	827
Germany	-	-	-	-	-	-	-	-
Greece	-	-	-	-	-	-	-	-
Hungary	-	-	-	-	-	-	-	-
Ireland	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-
Luxembourg	-	3532	4400	3929	4262	4159	4137	4152
Mexico	-	-	-	-	-	-	-	-
Netherlands	-	8524	16684	19261	8796	22561	24491	24342
Norway	-	-	-	-	-	-	-	-
Poland	-	-	2005	2264	5331	6048	5452	9204
Portugal	-	-	-	-	-	-	-	-
Slovak Republic	-	-	-	-	-	-	-	-
Slovenia	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-
Sweden	-	-	92	438	2332	296	c	c
Switzerland	-	8795	10327	18540	14686	12859	c	c
Turkey	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-
United States	-	-	-	-	-	-	-	-
Total to non-OECD	-	-	-	-	-	-	-	-
Albania	-	-	-	-	-	-	-	-
Azerbaijan	-	-	-	-	-	-	-	-
Belarus	-	-	-	-	-	-	-	-
Bulgaria	-	-	-	-	-	-	-	-
Croatia	-	-	-	-	-	-	-	-
F.Y.R. of Macedonia	-	-	-	-	-	-	-	-
Georgia	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-
Romania	-	-	-	-	-	-	-	-
Russian Federation	-	-	-	-	-	-	-	-
Serbia	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-
Turkmenistan	-	-	-	-	-	-	-	-
Ukraine	-	-	-	-	-	-	-	-
Non-specified/others	10639	4728	-	-	-	-	18320	16286

Germany

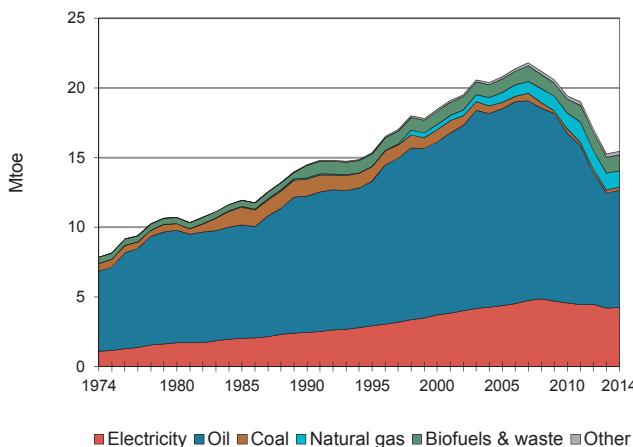
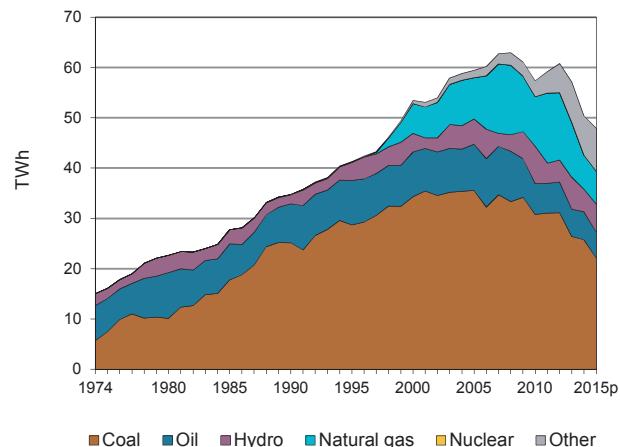
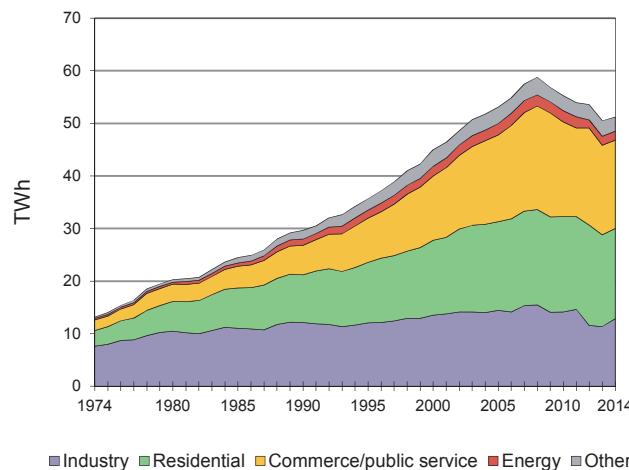
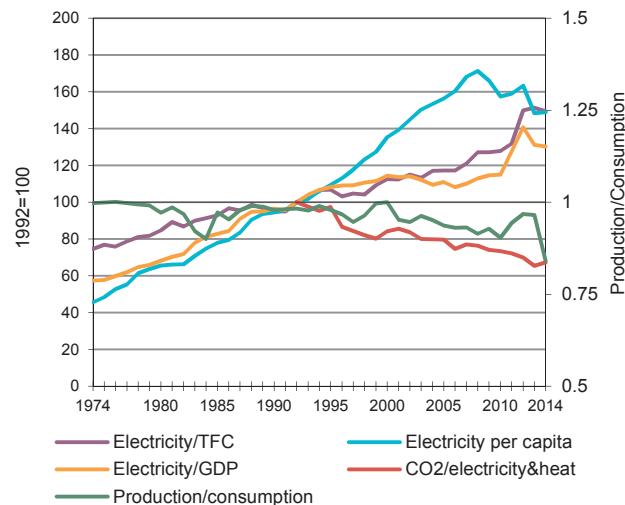
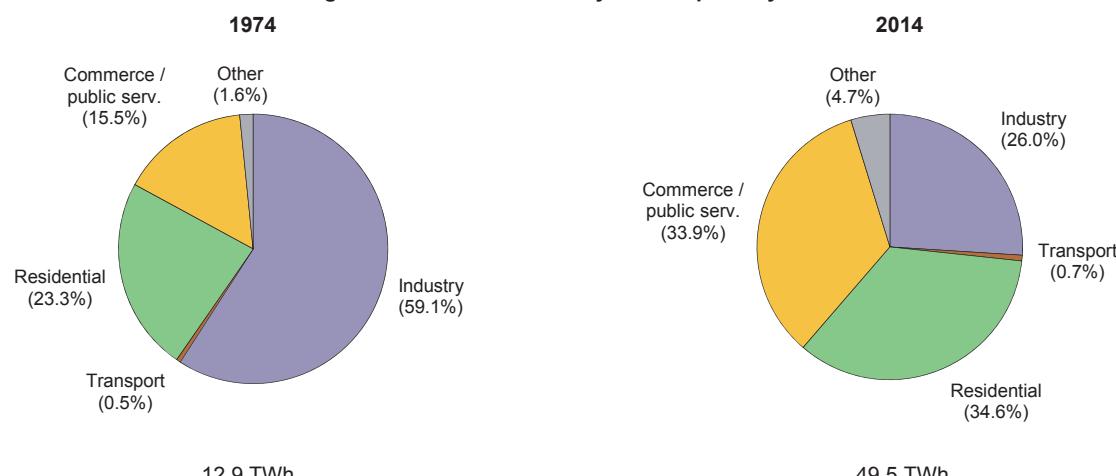
Table 10a. Share of electricity in total final consumption (%)

	1974	1990	2000	2005	2010	2012	2013	2014
Share of total final consumption	12.0	16.3	18.0	19.5	20.0	20.6	20.0	20.4
Industry	18.2	28.1	35.5	36.6	34.9	35.3	35.0	35.9
Iron and steel	12.1	21.3	23.9	29.2	29.5	29.1	29.2	30.5
Chem. and petrochemical	29.8	34.2	40.5	37.7	32.0	31.4	31.2	32.3
Non-ferrous metals	47.9	55.4	60.4	57.5	54.9	56.3	56.6	57.6
Non-metallic minerals	9.7	14.0	17.9	16.0	16.2	16.4	16.1	15.9
Transport equipment	27.2	37.7	56.1	51.1	52.0	51.5	50.7	55.6
Machinery	17.4	20.6	28.1	43.2	51.0	54.7	54.5	59.5
Mining and quarrying	16.1	23.5	38.7	36.5	42.0	45.4	39.7	43.3
Food and tobacco	10.2	18.3	28.0	30.0	31.3	31.0	31.0	31.1
Paper, pulp and printing	26.4	37.3	40.9	37.3	33.2	35.0	32.9	32.3
Wood and wood products	28.6	58.2	55.1	34.6	30.5	27.3	25.2	19.9
Construction	100.0	100.0	9.3	-	-	-	-	-
Textile and leather	21.5	25.8	39.8	38.1	36.2	35.7	39.1	40.1
Non specified/other	8.4	32.0	51.5	61.8	54.1	57.2	57.2	57.9
Transport	2.5	2.2	2.3	2.1	2.0	2.0	1.9	1.8
Rail Transport	23.1	55.4	70.2	71.7	73.8	74.2	74.7	74.2
Pipeline Transport	-	-	-	-	-	-	-	-
Road	-	-	-	0.0	0.0	0.0	0.0	0.0
Transport Non Specified	-	-	-	-	-	-	-	-
Other sectors	12.1	19.9	23.1	24.7	26.0	27.5	26.2	27.8
Commercial & publ. serv.	14.1	26.1	41.9	35.6	37.5	39.0	37.7	37.3
Residential	13.0	18.7	17.2	19.2	19.5	20.8	19.6	21.7
Agriculture	25.5	-	-	-	-	-	-	-
Fishing	-	-	-	-	-	-	-	-
Sector non specified	-	-	-	-	-	-	-	-

Table 10b. Share of heat in total final consumption (%)

	1974	1990	2000	2005	2010	2012	2013	2014
Share of total final consumption	2.4	3.8	3.0	4.7	4.9	4.7	4.6	4.2
Industry	1.8	3.6	1.8	5.0	6.3	8.2	8.2	7.6
Iron and steel	0.3	0.8	-	0.1	0.5	1.0	0.6	0.7
Chem. and petrochemical	1.7	3.8	2.4 e	9.3	12.8	16.2	16.5	15.9
Non-ferrous metals	-	0.8	0.3 e	0.5	2.9	0.7	0.8	0.6
Non-metallic minerals	0.2	1.3	0.4 e	0.2	0.2	0.3	0.3	0.2
Transport equipment	0.5	8.0	5.2 e	14.6	12.9	15.6	15.0	13.0
Machinery	0.7	8.0	-	7.9	5.7	5.5	4.8	4.6
Mining and quarrying	-	0.1	1.1 e	0.2	0.3	0.4	0.3	0.4
Food and tobacco	4.3	5.6	1.6 e	3.1	2.8	4.3	4.8	4.9
Paper, pulp and printing	0.2	2.4	1.0 e	4.6	6.7	12.2	13.1	11.8
Wood and wood products	-	-	-	4.1	7.8	8.3	9.8	4.5
Construction	-	-	-	-	-	-	-	-
Textile and leather	3.1	3.2	-	2.9	10.2	14.7	3.7	3.4
Non specified/other	5.8	7.6	7.0 e	5.9	5.5	6.6	6.9	5.8
Transport	-	-	-	-	-	-	-	-
Other sectors	4.2	6.9	6.2	8.3	8.0	6.4	6.2	5.9
Commercial & publ. serv.	-	-	-	8.2	9.3	7.2	4.2	4.0
Residential	7.1	10.7	9.1 e	8.4	7.2	6.0	7.4	7.1
Agriculture	-	-	-	-	-	-	-	-
Fishing	-	-	-	-	-	-	-	-
Sector non specified	-	-	-	-	-	-	-	-

Source: IEA/OECD World Energy Balances.

Greece**Figure 1. Total final consumption by fuel****Figure 2. Electricity generation by fuel****Figure 3. Electricity consumption by sector****Figure 4. Electricity indicators****Figure 5. Total final electricity consumption by sector**

Greece**Table 1. Energy consumption, GDP and population**

	1974	1990	2000	2010	2013	2014	2015p	74-00	00-15
TPES (Mtoe)	11.26	21.44	27.09	27.60	23.33	23.13	23.61	3.4	-0.9
GDP (billion 2005 USD)	141.48	197.65	251.51	299.36	244.10	245.70	245.13	2.2	-0.2
TPES/GDP ¹	0.08	0.11	0.11	0.09	0.10	0.09	0.10	1.2	-0.7
Population (millions)	9.06	10.27	10.81	11.12	10.97	10.93	10.95	0.7	0.1
TPES/population ²	1.24	2.09	2.51	2.48	2.13	2.12	2.16	2.7	-1.0
TPES/GDP (2005 = 100)	80	109	108	93	96	95	97	1.2	-0.7
Ele.TFC/GDP(2005=100) ³	54	86	103	106	120	120	..	2.5	..
Ele.TFC/population ⁴	1422	2774	3995	4778	4451	4532	..	4.1	..
Elec. generated (TWh) ⁵	15.02	34.78	53.43	57.37	57.11	50.34	47.90	5.0	-0.7

Source: IEA/OECD *World Energy Balances* and OECD *Main Economic Indicators*.**Table 2. Total primary energy supply (TPES) by source**

	1974	1990	2000	2010	2013	2014	2015p	74-00	00-15
TPES (Mtoe)	11.26	21.44	27.09	27.60	23.33	23.13	23.61	3.4	-0.9
Coal	2.31	8.07	9.04	7.86	6.98	6.69	6.20	5.4	-2.5
Oil	8.29	12.07	14.88	13.85	10.32	10.74	11.22	2.3	-1.9
Natural gas	-	0.14	1.70	3.23	3.24	2.48	2.68	-	3.1
Biofuels & waste	0.45	0.89	1.01	1.08	1.22	1.24	1.29	3.2	1.7
Nuclear	-	-	-	-	-	-	-	-	-
Geothermal	-	0.00	0.00	0.02	0.01	0.01	0.01	-	14.0
Solar, wind, tide ⁶	-	0.06	0.14	0.43	0.86	0.84	0.91	-	13.4
Hydro	0.20	0.15	0.32	0.64	0.55	0.38	0.48	1.8	2.7
Net electricity imports ⁷	0.00	0.06	-0.00	0.49	0.16	0.76	0.83	-	-
Heat	-	-	-	-	-	-	-	-	-

Source: IEA/OECD *World Energy Balances*.

1. In units of toe/2005 thousand US dollars.
2. In units of toe/per capita.
3. Ele.TFC = electricity total final consumption.
4. In units of kWh/per capita.
5. Electricity generated = gross production - amount of electricity produced in pumped storage plants.
6. Includes wave, ocean and other (e.g. fuel cells).
7. Net Imports = total imports - total exports

Greece**Table 3a. Summary electricity production and consumption¹ (TWh)**

	1974	1990	2000	2005	2010	2013	2014	2015e
Gross production	15.02	35.00	53.84	60.02	57.39	57.15	50.47	47.96
- Own use by power plant	0.82	2.86	3.98	4.28	4.00	4.59	3.77	-
Net production	14.20	32.15	49.86	55.74	53.39	52.56	46.70	-
- Used for heat pumps	-	-	-	-	-	-	-	-
- Used for electric boilers	-	-	-	-	-	-	-	-
- Used for pumped storage	-	0.33	0.60	0.84	0.04	0.05	0.19	0.09
+ Imports	0.08	1.33	1.73	5.62	8.52	5.79	9.46	11.08
- Exports	0.04	0.62	1.74	1.84	2.81	3.90	0.64	1.47
Electrical energy supplied	14.24	32.53	49.26	58.68	59.06	54.39	55.33	..
- Transmission & distr. losses	1.06	2.87	4.27	5.60	3.78	3.90	4.15	..
- Statistical difference	-	-	-	-	-	-	-	..
Total consumption	13.18	29.67	44.98	53.08	55.28	50.50	51.19	..
Energy industry consumption²	0.30	1.20	1.83	2.18	2.16	1.71	1.69	..
Coal Mines	0.14	0.48	1.06	1.10	0.96	0.89	0.79	..
Oil + Gas Extraction	-	-	-	0.05	0.04	0.05	0.05	..
Patent Fuel Plants	-	-	-	-	-	-	-	..
Coke Ovens	-	-	-	-	-	-	-	..
BKB plants	-	-	-	-	-	-	-	..
Gas Works	-	-	-	-	-	-	-	..
Blast Furnaces	-	-	-	-	-	-	-	..
Oil Refineries	0.16	0.72	0.77	1.02	1.16	0.76	0.78	..
Nuclear Industry	-	-	-	-	-	-	-	..
Coal Liquefaction Plants	-	-	-	-	-	-	-	..
LNG/Regasification Plants	-	-	-	-	-	-	-	..
Energy - Non Specified	-	-	-	-	-	0.01	0.07	..
Final consumption	12.88	28.47	43.15	50.90	53.12	48.79	49.50	..
Industry	7.61	12.11	13.55	14.42	14.14	11.37	12.87	..
Iron and steel	0.50	1.00	0.98	1.68	1.30	0.76	0.78	..
Chem. and petrochemical	1.01	1.38	1.21	0.57	0.53	0.60	0.66	..
Non-ferrous metals	2.99	3.32	3.86	4.62	5.40	4.71	4.71	..
Non-metallic minerals	0.88	1.78	2.07	2.41	1.71	1.09	1.10	..
Transport equipment	0.09	0.16	0.18	0.13	0.09	0.12	0.11	..
Machinery	0.26	0.41	0.61	0.57	0.14	0.21	0.20	..
Mining and quarrying	0.14	0.28	0.28	0.26	0.16	0.04	0.04	..
Food and tobacco	0.24	0.71	1.21	1.90	2.16	2.11	2.18	..
Paper, pulp and printing	0.25	0.51	0.51	0.54	0.64	0.53	0.55	..
Wood and wood products	0.07	0.10	0.14	0.22	0.22	0.14	0.13	..
Construction	-	0.01	0.08	0.01	0.00	0.00	0.00	..
Textile and leather	0.57	1.07	1.00	0.76	0.61	0.30	0.20	..
Non specified/other	0.62	1.38	1.43	0.77	1.19	0.77	2.23	..
Transport	0.07	0.13	0.23	0.20	0.18	0.27	0.34	..
Rail Transport	0.07	0.13	0.10	0.06	0.05	0.11	0.17	..
Pipeline Transport	-	-	-	-	-	-	-	..
Road	-	-	-	-	-	0.02	0.02	..
Transport Non Specified	-	-	0.13	0.14	0.14	0.14	0.15	..
Commercial & publ. serv.	3.00	9.07	14.21	16.88	18.13	17.45	17.15	..
Residential	1.99	5.61	12.26	16.48	18.00	17.01	16.80	..
Agriculture	0.21	1.56	2.91	2.93	2.67	2.70	2.28	..
Fishing	-	-	-	-	-	-	-	..
Sector non specified	-	-	-	-	-	-	0.05	..

1. Electricity generation from main activity producer power plants and autoproducers .

2. Energy industry consumption = electricity consumed by transformation industries for heating, traction and lighting purposes;

excludes own use by power plant and electricity used for heat pumps, electric boilers and pumped storage.

Greece**Table 3b. Summary heat production and consumption¹ (TJ)**

	1974	1990	2000	2005	2010	2013	2014	2015e
Gross production	-	-	1174	2049	1941	1738	2073	2192
- Own use by power plant	-	-	-	-	-	-	-	-
Net production	-	-	1174	2049	1941	1738	2073	-
- Used for electricity production	-	-	-	-	-	-	-	-
+ Imports	-	-	-	-	-	-	-	-
- Exports	-	-	-	-	-	-	-	-
Heat energy supplied	-	-	1174	2049	1941	1738	2073	-
- Transmission & distr. losses	-	-	-	-	-	-	-	-
- Statistical difference	-	-	-	-	-	-	-	-
Total consumption	-	-	1174	2049	1941	1738	2073	-
Energy industry consumption²	-	-	-	-	-	-	-	-
Coal Mines	-	-	-	-	-	-	-	-
Oil + Gas Extraction	-	-	-	-	-	-	-	-
Patent Fuel Plants	-	-	-	-	-	-	-	-
Coke Ovens	-	-	-	-	-	-	-	-
BKB plants	-	-	-	-	-	-	-	-
Gas Works	-	-	-	-	-	-	-	-
Blast Furnaces	-	-	-	-	-	-	-	-
Oil Refineries	-	-	-	-	-	-	-	-
Nuclear Industry	-	-	-	-	-	-	-	-
Coal Liquefaction Plants	-	-	-	-	-	-	-	-
LNG/Regasification Plants	-	-	-	-	-	-	-	-
Energy - Non Specified	-	-	-	-	-	-	-	-
Final consumption	-	-	1174	2049	1941	1738	2073	-
Industry	-	-	-	-	-	-	-	-
Iron and steel	-	-	-	-	-	-	-	-
Chem. and petrochemical	-	-	-	-	-	-	-	-
Non-ferrous metals	-	-	-	-	-	-	-	-
Non-metallic minerals	-	-	-	-	-	-	-	-
Transport equipment	-	-	-	-	-	-	-	-
Machinery	-	-	-	-	-	-	-	-
Mining and quarrying	-	-	-	-	-	-	-	-
Food and tobacco	-	-	-	-	-	-	-	-
Paper, pulp and printing	-	-	-	-	-	-	-	-
Wood and wood products	-	-	-	-	-	-	-	-
Construction	-	-	-	-	-	-	-	-
Textile and leather	-	-	-	-	-	-	-	-
Non specified/other	-	-	-	-	-	-	-	-
Transport	-	-	-	-	-	-	-	-
Commercial & publ. serv.	-	-	-	-	-	-	-	-
Residential	-	-	1174	2049	1941	1738	2073	-
Agriculture	-	-	-	-	-	-	-	-
Fishing	-	-	-	-	-	-	-	-
Sector non specified	-	-	-	-	-	-	-	-

1. Heat generation from main activity producer power plants and autoproducers.

2. Energy industry consumption = electricity consumed by transformation industries for heating, traction and lighting purposes;

excludes own use by power plant and electricity used for heat pumps, electric boilers and pumped storage.

Greece

Table 4a. Gross electricity production by source (TWh)

	1974	1990	2000	2010	2013	2014	2015e	74-00	00-15
Total plants gross production¹	15.02	35.00	53.84	57.39	57.15	50.47	47.96	5.0	-0.8
Nuclear	-	-	-	-	-	-	-	-	-
Hydro	2.35	2.00	4.11	7.49	6.38	4.61	5.60	2.2	2.1
- Of which pumped storage	-	0.23	0.42	0.03	0.04	0.13	0.06	-	-12.0
Geothermal	-	-	-	-	-	-	-	-	-
Solar	-	-	-	0.16	3.65	3.79	3.72	-	-
Wind	-	0.00	0.45	2.71	4.14	3.69	4.55	-	16.7
Combustible fuels	12.67	33.00	49.28	47.04	42.98	38.39	34.09	5.4	-2.4
- Coal	..	25.17	34.31	30.80	26.41	25.75	22.11	..	-2.9
- Oil	..	7.75	8.89	6.09	5.41	5.54	5.19	..	-3.5
- Natural gas	..	0.09	5.92	9.83	10.86	6.78	6.54	..	0.7
- Biofuels & waste	..	-	0.16	0.32	0.30	0.32	0.26	..	3.2
Other ²	-	-	-	-	-	-	-	-	-
Of which autoproducers	0.21	0.88	1.01	2.49	1.89	1.79	..	6.2	..
Nuclear	-	-	-	-	-	-	..	-	..
Hydro	-	-	-	-	-	-	..	-	..
- Of which pumped storage	-	-	-	-	-	-	..	-	..
Geothermal	-	-	-	-	-	-	..	-	..
Solar	-	-	-	-	-	-	..	-	..
Wind	-	-	-	-	-	-	..	-	..
Combustible fuels	0.21	0.88	1.01	2.49	1.89	1.79	..	6.2	..
- Coal	..	-	-	-	-	-
- Oil	..	0.78	0.72	0.80	0.77	0.74
- Natural gas	..	0.09	0.13	1.54	1.02	0.93
- Biofuels & waste	..	-	0.16	0.16	0.10	0.12
Other ²	-	-	-	-	-	-	..	-	..

Table 4b. Gross heat production by source (PJ)

	1974	1990	2000	2010	2013	2014	2015e	74-00	00-15
Total plants heat generation³	-	-	1.17	1.94	1.74	2.07	2.19	-	4.3
Nuclear	-	-	-	-	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-	-	-
Combustible fuels	-	-	1.17	1.94	1.74	2.07	2.19	-	4.3
- Coal	..	-	1.17	1.91	1.73	2.06	2.18	..	4.2
- Oil	..	-	-	0.04	0.01	0.01	0.01	..	-
- Natural gas	..	-	-	-	-	-	-	..	-
- Biofuels & waste	..	-	-	-	0.00	-	-	..	-
Chemical processes	-	-	-	-	-	-	-	-	-
Heat pumps	-	-	-	-	-	-	-	-	-
Electric boilers	-	-	-	-	-	-	-	-	-
Other sources	-	-	-	-	-	-	-	-	-
Of which Autoproducers	-	-	-	-	-	-	..	-	..
Nuclear	-	-	-	-	-	-	..	-	..
Geothermal	-	-	-	-	-	-	..	-	..
Combustible fuels	-	-	-	-	-	-	..	-	..
- Coal	..	-	-	-	-	-
- Oil	..	-	-	-	-	-
- Natural gas	..	-	-	-	-	-
- Biofuels & waste	..	-	-	-	-	-
Chemical processes	-	-	-	-	-	-	..	-	..
Heat pumps	-	-	-	-	-	-	..	-	..
Electric boilers	-	-	-	-	-	-	..	-	..
Other sources	-	-	-	-	-	-	..	-	..

1. Electricity generated from main activity producer power plants and autoproducers.

2. Includes wave, ocean and other sources (e.g. fuel cells, electricity from chemical heat).

3. Total heat generation = gross production of heat from main activity producer + heat sold in autoproducers.

Greece**Table 5. Net electricity production by autoproducers (GWh)**

	1974	1990	2000	2010	2012	2013	2014	74-00	00-14
Total	212	859	990	2442	2035	1844	1680	6.1	3.8
Total energy	30	584	634	791	722	756	737	12.5	1.1
Coal mines	-	-	-	-	-	-	-	-	-
Oil and gas extraction	-	-	-	5	-	-	-	-	-
Patent fuel plants	-	-	-	-	-	-	-	-	-
Coke ovens	-	-	-	-	-	-	-	-	-
Gas works	-	-	-	-	-	-	-	-	-
BKB	30	584	634	786	721	755	737	12.5	1.1
Oil refineries	-	-	-	-	-	-	-	-	-
Energy non specified/other	-	-	-	-	1	1	-	-	-
Total industry	182	275	356	1447	1158	951	826	2.6	6.2
Iron and steel	-	-	-	-	-	-	-	-	-
Chemical and petrochemical	125	195	191	61	60	84	82	1.6	-5.9
Non-ferrous metals	-	-	54	1373	1088	857	731	-	20.5
Non-metallic minerals	-	-	-	-	-	-	-	-	-
Transport equipment	-	-	-	-	-	-	-	-	-
Machinery	-	-	-	-	-	-	-	-	-
Mining and quarrying	-	-	-	-	-	-	-	-	-
Food and tobacco	31	80	111	11	10	10	13	5.0	-14.2
Pulp and printing	26	-	-	-	-	-	-	-	-
Wood and wood products	-	-	-	-	-	-	-	-	-
Construction	-	-	-	-	-	-	-	-	-
Textile and leather	-	-	-	2	-	-	-	-	-
Non specified/other industries	-	-	-	-	-	-	-	-	-
Total transport	-	-	-	45	25	34	22	-	-
Rail	-	-	-	-	-	-	-	-	-
Pipeline	-	-	-	45	25	34	22	-	-
Transport non specified	-	-	-	-	-	-	-	-	-
Other	-	-	-	159	130	103	95	-	-
Commerce and pub. services	-	-	-	74	7	7	-	-	-
Residential	-	-	-	-	-	-	-	-	-
Agriculture	-	-	-	85	123	96	95	-	-
Fishing	-	-	-	-	-	-	-	-	-
Sector non specified	-	-	-	-	-	-	-	-	-

Notes: Data reported in this table prior to 1990 may refer to combustible fuels only.

Greece**Table 6a. Electricity production from combustible fuels in electricity plants¹**

	1990	2000	2005	2010	2012	2013	2014	90-00	00-14
Steam coal									
Fuel input (1000 t)	-	6	-	154	2	1	-	-	-
Fuel input (TJ)	-	152	-	4227	55	18	-	-	-
Electricity production (GWh)	-	14	-	421	5	3	-	-	-
Lignite									
Fuel input (1000 t)	50531	59811	55953	41619	43337	35629	29445	1.7	-4.9
Fuel input (TJ)	288477	322097	293196	225533	226371	184986	150758	1.1	-5.3
Electricity production (GWh)	25166	31935	28478	22058	22091	17532	15885	2.4	-4.9
Coal manufactured gases²									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
Other coal products³									
Fuel input (1000 t)	-	24	9	-	-	-	-	-	-
Fuel input (TJ)	-	334	125	-	-	-	-	-	-
Electricity production (GWh)	-	22	8	-	-	-	-	-	-
Oil and petroleum products									
Fuel input (1000 t)	1735	2016	2019	1266	1180	1073	1109	1.5	-4.2
Fuel input (TJ)	70698	82232	82284	50219	46799	42413	43879	1.5	-4.4
Electricity production (GWh)	6963	8166	8413	5234	5060	4590	4739	1.6	-3.8
Natural gas²									
Fuel input (TJ)	-	58138	73858	88265	95802	82052	50128	-	-1.1
Electricity production (GWh)	-	5788	8010	8291	12034	9843	5847	-	0.1
Solid biofuels									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
Industrial waste									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
Municipal waste									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
Biogases and liquid biofuels									
Fuel input (TJ)	-	-	990	1695	669	420	375	-	-
Electricity production (GWh)	-	-	94	161	40	39	36	-	-
Total combustible fuels									
Electricity production (GWh)	32129	45925	45003	36165	39230	32007	26507	3.6	-3.8

1. Excludes CHP plants.

2. Coal manufactured gases and natural gas are expressed on a gross calorific value basis.

3. Includes Coking coal as well as peat and peat products, patent fuels, BKB and shale oil

Greece**Table 6b. Electricity and heat produced for sale from combustible fuels
in combined heat and power plants (CHP plants)**

	1990	2000	2005	2010	2012	2013	2014	90-00	00-14
Steam coal									
Fuel input (1000 t)	-	-	-	4	-	-	-	-	-
Fuel input (TJ)	-	-	-	110	-	-	-	-	-
Electricity production (GWh)	-	-	-	10	-	-	-	-	-
CHP Heat production (TJ)	-	-	-	-	-	-	-	-	-
Lignite									
Fuel input (1000 t)	-	4053	13476	16037	18570	18663	22186	-	12.9
Fuel input (TJ)	-	21849	70673	90802	97000	96385	111783	-	12.4
Electricity production (GWh)	-	2342	7056	8308	9023	8871	9861	-	10.8
CHP Heat production (TJ)	-	1174	2020	1905	1851	1728	2060	-	4.1
Coal manufactured gases¹									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
CHP Heat production (TJ)	-	-	-	-	-	-	-	-	-
Other coal products²									
Fuel input (1000 t)	-	-	1	-	-	-	-	-	-
Fuel input (TJ)	-	-	19	-	-	-	-	-	-
Electricity production (GWh)	-	-	1	-	-	-	-	-	-
CHP Heat production (TJ)	-	-	14	-	-	-	-	-	-
Petroleum products									
Fuel input (1000 t)	138	93	87	220	267	211	250	-3.9	7.3
Fuel input (TJ)	5546	4152	4023	10362	12735	9751	12019	-2.9	7.9
Electricity production (GWh)	783	719	794	855	1020	824	805	-0.8	0.8
CHP Heat production (TJ)	-	-	15	36	36	9	13	-	-
Natural gas¹									
Fuel input (TJ)	840	1415	821	7592	7307	9565	9465	5.4	14.5
Electricity production (GWh)	92	132	161	1539	1327	1017	929	3.7	15.0
CHP Heat production (TJ)	-	-	-	-	-	-	-	-	-
Solid Biofuels									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
CHP Heat production (TJ)	-	-	-	-	-	-	-	-	-
Industrial waste									
Fuel input (TJ)	-	2662	1040	1341	625	883	868	-	-7.7
Electricity production (GWh)	-	163	100	129	60	85	100	-	-3.4
CHP Heat production (TJ)	-	-	-	-	-	-	-	-	-
Municipal waste									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
CHP Heat production (TJ)	-	-	-	-	-	-	-	-	-
Biogases and liquid biofuels									
Fuel input (TJ)	-	-	166	286	2403	2555	2580	-	-
Electricity production (GWh)	-	-	28	29	164	177	184	-	-
CHP Heat production (TJ)	-	-	-	-	2	1	-	-	-
Total combustible fuels									
Electricity production (GWh)	875	3356	8140	10870	11594	10974	11879	14.4	9.4
CHP Heat production (TJ)	-	1174	2049	1941	1889	1738	2073	-	4.1

1. Coal manufactured gases and natural gas are expressed on a gross calorific value basis.

2. Includes Coking coal as well as peat and peat products, patent fuels, BKB and shale oil

Greece**Table 7. Net maximum electricity generating capacity on 31 December (GW)**

	1974	1990	2000	2005	2010	2012	2013	2014
Total capacity¹	3.94	8.51	10.90	13.31	15.31	17.75	18.86	18.90
Nuclear	-	-	-	-	-	-	-	-
Hydro	1.29	2.41	3.07	3.11	3.22	3.24	3.24	3.39
<i>of which: pumped storage</i>	-	0.32	0.70	0.70	0.70	0.70	0.70	0.70
Geothermal	-	-	-	-	-	-	-	-
Solar PV	-	-	-	-	0.20	1.54	2.58	2.60
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	-	0.23	0.49	1.30	1.75	1.81	1.98
Other (e.g. fuel cells)	-	-	-	-	-	-	-	-
Combustible fuels	2.65	6.10	7.61	9.71	10.60	11.23	11.23	10.93
<i>of which⁽²⁾:</i>								
<i>Single-fired:</i>								
Coal and Coal products	1.12	3.89	4.49	4.81	4.79	4.56	4.56	4.30
Liquid fuels	1.22	2.15	1.97	2.32	2.51	2.50	2.50	2.49
Natural gas	0.10	0.02	1.11	2.53	3.25	4.12	4.10	4.07
Biofuels & waste	-	0.05	0.04	0.05	0.05	0.05	0.07	0.07
<i>Multi-fired:</i>								
Solid / liquid	0.22	-	-	-	-	-	-	-
Solid / natural gas	-	-	-	-	-	-	-	-
Liquid / natural gas	-	-	-	-	-	-	-	-
Solid / liquid / gas	-	-	-	-	-	-	-	-
<i>Type of generation</i>								
Steam	-	5.42	5.81	6.10	6.08	5.84	5.84	5.54
Internal combustion	-	0.29	0.56	0.78	0.93	0.92	0.92	0.89
Gas turbine	-	0.32	0.32	0.52	0.88	0.90	0.90	0.84
Combined cycle	-	0.07	0.92	2.31	2.71	3.57	3.57	3.66
Other	-	-	-	-	-	-	-	-
<i>Peak load</i>	..	4.92	8.53	9.64	9.88	9.89	8.76	9.09
Of which Autoproducers	0.13	0.20	0.21	0.26	0.52	0.52	0.53	0.51
Nuclear	-	-	-	-	-	-	-	-
Hydro	-	-	-	-	-	-	-	-
<i>of which: pumped storage</i>	-	-	-	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-	-
Solar PV	-	-	-	-	-	-	-	-
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	-	-	-	-	-	-	-
Other (e.g. fuel cells)	-	-	-	-	-	-	-	-
Combustible fuels	0.13	0.20	0.21	0.26	0.52	0.52	0.53	0.51

1. Sum of available capacity figures

2. Breakdown of electrical capacity by type of fuel are shown in the individual country chapters.

Greece**Table 8. Capacity factors (%)**

	1974	1990	2000	2005	2010	2012	2013	2014
Total plants¹	43.5	47.0	56.4	51.5	42.8	39.2	34.6	30.5
Nuclear	-	-	-	-	-	-	-	-
Hydro	20.8	9.5	15.3	20.6	26.6	16.2	22.5	15.5
<i>of which: pumped storage</i>	-	-	-	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-	-
Solar PV	-	-	-	11.4	8.9	12.6	16.2	16.7
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	22.8	22.8	29.4	23.9	25.1	26.1	21.3
Other (e.g. fuel cells)	-	-	-	-	-	-	-	-
Combustible fuels	54.5	61.8	74.0	62.5	50.7	51.7	43.7	40.1
Of which autoproducers	18.8	50.7	54.1	48.2	54.5	51.4	40.8	40.5
Nuclear	-	-	-	-	-	-	-	-
Hydro	-	-	-	-	-	-	-	-
<i>of which: pumped storage</i>	-	-	-	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-	-
Solar PV	-	-	-	-	-	-	-	-
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	-	-	-	-	-	-	-
Other (e.g. fuel cells)	-	-	-	-	-	-	-	-
Combustible fuels	18.8	50.7	54.1	48.2	54.5	51.4	40.8	40.5

1. The capacity factor is defined as: the annual gross electricity generation (in GWh) divided by the net capacity (in GW) times 365 (days/year) times 24 (hours/day)

Greece**Table 9a. Electricity imports by origin (GWh)**

	1974	1990	2000	2005	2010	2012	2013	2014
Total imports	78	1330	1729	5616	8517	5954	5788	9461
Total from OECD	-	16	-	263	803	2030	343	3242
Austria	-	16	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-
Canada	-	-	-	-	-	-	-	-
Czech Republic	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-
Greece	-	-	-	-	-	-	-	-
Hungary	-	-	-	-	-	-	-	-
Ireland	-	-	-	-	-	-	-	-
Italy	-	-	-	263	67	327	291	1335
Luxembourg	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-
Poland	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-
Slovak Republic	-	-	-	-	-	-	-	-
Slovenia	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-
Switzerland	-	-	-	-	-	-	-	-
Turkey	-	-	-	-	736	1703	52	1907
United Kingdom	-	-	-	-	-	-	-	-
United States	-	-	-	-	-	-	-	-
Total from non-OECD	78	1314	1729	5353	7714	3924	5445	6219
Albania	73	165	50	15	404	17	1380	105
Azerbaijan	-	-	-	-	-	-	-	-
Belarus	-	-	-	-	-	-	-	-
Bulgaria	-	320	1067	4543	3454	2303	2971	3484
Croatia	-	-	-	-	-	-	-	-
F.Y.R. of Macedonia	-	-	-	795	3856	1604	1094	2630
Georgia	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-
Romania	-	-	-	-	-	-	-	-
Russian Federation	-	-	-	-	-	-	-	-
Serbia	5	829	612	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-
Turkmenistan	-	-	-	-	-	-	-	-
Ukraine	-	-	-	-	-	-	-	-
Non-specified/others	-	-	-	-	-	-	-	-

Greece**Table 9b. Electricity exports by destination (GWh)**

	1974	1990	2000	2005	2010	2012	2013	2014
Total exports	38	619	1740	1836	2811	4169	3901	642
Total to OECD	-	-	-	710	2312	2540	3386	112
Austria	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-
Canada	-	-	-	-	-	-	-	-
Czech Republic	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-
Greece	-	-	-	-	-	-	-	-
Hungary	-	-	-	-	-	-	-	-
Ireland	-	-	-	-	-	-	-	-
Italy	-	-	-	710	2312	2536	2089	108
Luxembourg	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-
Poland	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-
Slovak Republic	-	-	-	-	-	-	-	-
Slovenia	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-
Switzerland	-	-	-	-	-	-	-	-
Turkey	-	-	-	-	-	4	1297	4
United Kingdom	-	-	-	-	-	-	-	-
United States	-	-	-	-	-	-	-	-
Total to non-OECD	38	619	1740	1126	499	1629	515	530
Albania	-	457	1111	1056	491	1480	125	511
Azerbaijan	-	-	-	-	-	-	-	-
Belarus	-	-	-	-	-	-	-	-
Bulgaria	-	67	205	-	-	2	183	-
Croatia	-	-	-	-	-	-	-	-
F.Y.R. of Macedonia	-	-	-	70	8	147	207	19
Georgia	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-
Romania	-	-	-	-	-	-	-	-
Russian Federation	-	-	-	-	-	-	-	-
Serbia	38	95	424	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-
Turkmenistan	-	-	-	-	-	-	-	-
Ukraine	-	-	-	-	-	-	-	-
Non-specified/others	-	-	-	-	-	-	-	-

Greece**Table 10a. Share of electricity in total final consumption (%)**

	1974	1990	2000	2005	2010	2012	2013	2014
Share of total final consumption	14.1	16.9	20.1	21.1	23.5	26.2	27.5	27.6
Industry	22.4	26.1	26.3	29.9	35.0	33.2	34.5	35.8
Iron and steel	9.6	38.4	43.8	66.0	63.2	50.6	46.5	49.6
Chem. and petrochemical	38.2	38.8	38.7	18.2	23.3	53.4	46.4	35.1
Non-ferrous metals	42.5	45.7	41.0	47.4	60.7	50.6	45.9	48.9
Non-metallic minerals	14.8	12.0	13.8	18.5	15.2	11.9	12.9	12.4
Transport equipment	100.0	100.0	41.6	33.6	28.6	70.0	83.2	44.7
Machinery	76.2	89.3	77.8	82.8	63.6	67.4	66.5	46.8
Mining and quarrying	12.9	27.2	18.0	25.7	22.7	4.8	4.5	4.6
Food and tobacco	7.7	18.0	16.0	25.5	31.9	35.2	38.6	35.8
Paper, pulp and printing	19.8	31.5	26.1	36.6	45.4	48.2	46.2	47.8
Wood and wood products	100.0	100.0	25.0	37.9	39.6	45.9	40.5	45.4
Construction	-	100.0	3.9	0.3	0.1	0.2	0.1	0.1
Textile and leather	100.0	42.4	41.5	46.2	59.3	59.6	58.9	51.5
Non specified/other	9.4	16.8	30.8	16.9	34.7	18.1	49.2	79.5
Transport	0.3	0.2	0.3	0.2	0.2	0.3	0.4	0.5
Rail Transport	5.6	14.2	17.2	10.4	16.3	16.2	33.2	25.1
Pipeline Transport	-	-	-	-	-	-	-	-
Road	-	-	-	-	-	-	0.0	0.0
Transport Non Specified	-	-	100.0	100.0	100.0	27.0	66.3	55.1
Other sectors	15.9	29.3	36.6	36.4	45.3	44.8	51.8	51.8
Commercial & publ. serv.	99.4	74.2	80.5	72.9	79.3	81.9	80.4	84.4
Residential	14.1	25.6	27.3	26.4	33.8	32.5	39.9	39.0
Agriculture	2.9	13.1	22.6	22.0	28.7	82.4	79.4	76.7
Fishing	-	-	-	-	-	-	-	-
Sector non specified	-	-	-	-	-	-	-	1.9

Table 10b. Share of heat in total final consumption (%)

	1974	1990	2000	2005	2010	2012	2013	2014
Share of total final consumption	-	-	0.2	0.2	0.2	0.3	0.3	0.3
Industry	-	-	-	-	-	-	-	-
Iron and steel	-	-	-	-	-	-	-	-
Chem. and petrochemical	-	-	-	-	-	-	-	-
Non-ferrous metals	-	-	-	-	-	-	-	-
Non-metallic minerals	-	-	-	-	-	-	-	-
Transport equipment	-	-	-	-	-	-	-	-
Machinery	-	-	-	-	-	-	-	-
Mining and quarrying	-	-	-	-	-	-	-	-
Food and tobacco	-	-	-	-	-	-	-	-
Paper, pulp and printing	-	-	-	-	-	-	-	-
Wood and wood products	-	-	-	-	-	-	-	-
Construction	-	-	-	-	-	-	-	-
Textile and leather	-	-	-	-	-	-	-	-
Non specified/other	-	-	-	-	-	-	-	-
Transport	-	-	-	-	-	-	-	-
Other sectors	-	-	0.4	0.6	0.6	0.6	0.7	0.8
Commercial & publ. serv.	-	-	-	-	-	-	-	-
Residential	-	-	0.6	0.9	1.0	0.9	1.1	1.3
Agriculture	-	-	-	-	-	-	-	-
Fishing	-	-	-	-	-	-	-	-
Sector non specified	-	-	-	-	-	-	-	-

Source: IEA/OECD World Energy Balances.

Hungary

Figure 1. Total final consumption by fuel

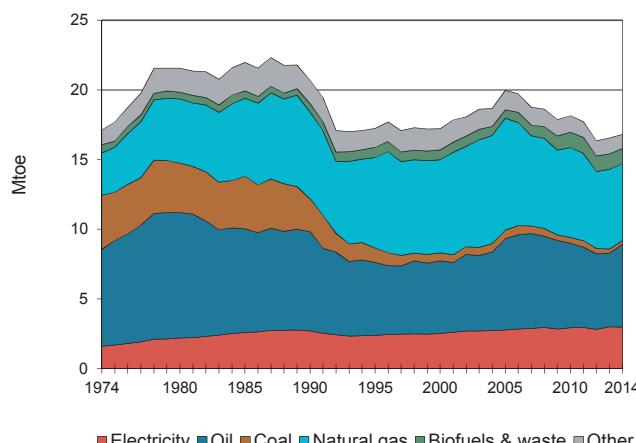


Figure 2. Electricity generation by fuel

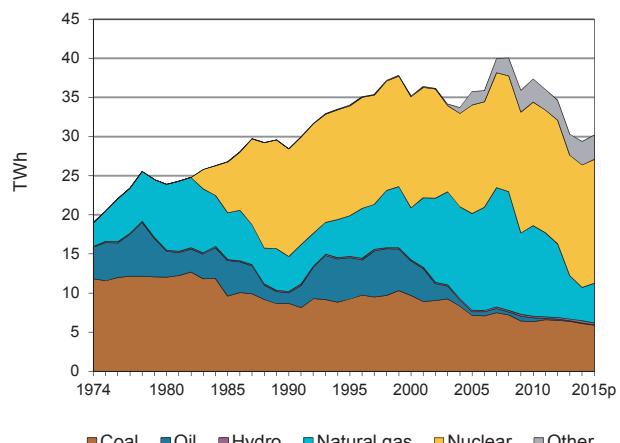


Figure 3. Electricity consumption by sector

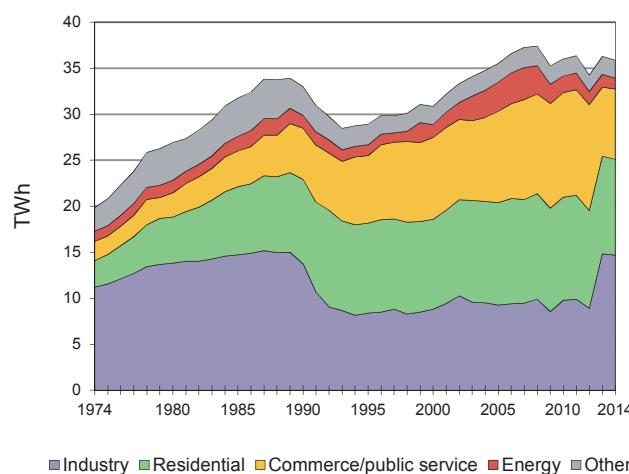


Figure 4. Electricity indicators

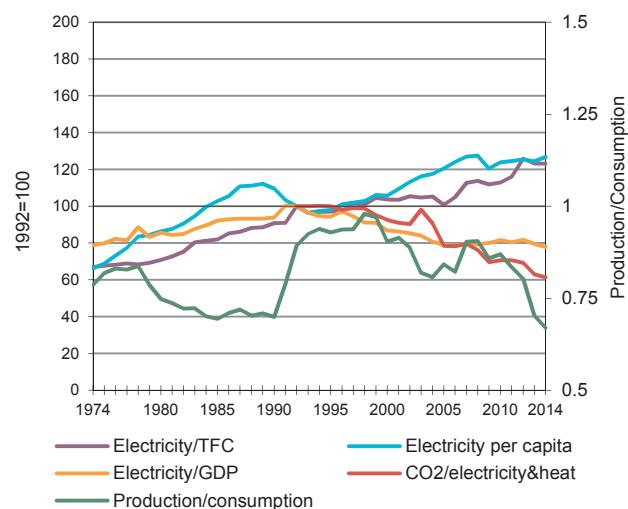
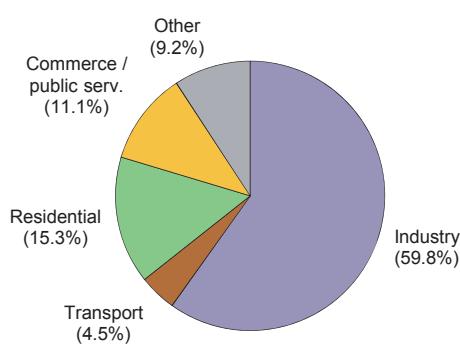
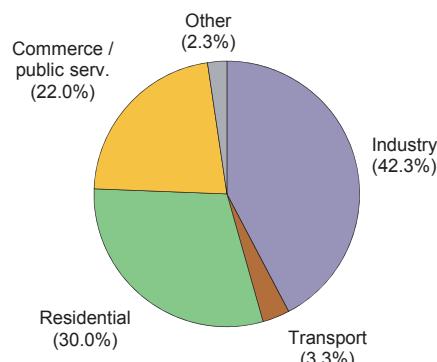


Figure 5. Total final electricity consumption by sector

1974



2014



Hungary

Table 1. Energy consumption, GDP and population

	1974	1990	2000	2010	2013	2014	2015p	74-00	00-15
TPES (Mtoe)	22.03	28.78	25.00	25.69	22.48	22.84	23.95	0.5	-0.3
GDP (billion 2005 USD)	75.31	103.50	106.55	130.09	132.60	137.47	141.51	1.3	1.9
TPES/GDP ¹	0.29	0.28	0.23	0.20	0.17	0.17	0.17	-0.8	-2.2
Population (millions)	10.47	10.37	10.21	10.00	9.89	9.87	9.86	-0.1	-0.2
TPES/population ²	2.10	2.78	2.45	2.57	2.27	2.31	2.43	0.6	-0.1
TPES/GDP (2005 = 100)	140	133	112	94	81	79	81	-0.8	-2.2
Ele.TFC/GDP(2005=100) ³	101	124	112	107	107	103	..	0.4	..
Ele.TFC/population ⁴	1791	3049	2884	3422	3526	3519	..	1.8	..
Elec. generated (TWh) ⁵	18.99	28.44	35.19	37.37	30.29	29.37	30.19	2.4	-1.0

Source: IEA/OECD *World Energy Balances* and OECD *Main Economic Indicators*.

Table 2. Total primary energy supply (TPES) by source

	1974	1990	2000	2010	2013	2014	2015p	74-00	00-15
TPES (Mtoe)	22.03	28.78	25.00	25.69	22.48	22.84	23.95	0.5	-0.3
Coal	7.59	6.23	3.85	2.72	2.25	2.20	2.31	-2.6	-3.3
Oil	8.96	8.35	6.63	6.55	5.63	6.35	6.80	-1.2	0.2
Natural gas	4.44	8.91	9.65	9.81	7.60	6.98	7.49	3.0	-1.7
Biofuels & waste	0.62	0.66	0.76	1.88	1.73	1.81	1.78	0.8	5.8
Nuclear	-	3.58	3.71	4.12	4.02	4.09	4.14	-	0.7
Geothermal	-	0.09	0.09	0.10	0.11	0.13	0.14	-	3.1
Solar, wind, tide ⁶	-	-	-	0.05	0.10	0.11	0.10	-	-
Hydro	0.01	0.02	0.02	0.02	0.02	0.03	0.02	3.1	1.8
Net electricity imports ⁷	0.40	0.96	0.30	0.45	1.02	1.15	1.18	-1.2	9.6
Heat	-	-	-	-	-	-	-	-	-

Source: IEA/OECD *World Energy Balances*.

1. In units of toe/2005 thousand US dollars.
2. In units of toe/per capita.
3. Ele.TFC = electricity total final consumption.
4. In units of kWh/per capita.
5. Electricity generated = gross production - amount of electricity produced in pumped storage plants.
6. Includes wave, ocean and other (e.g. fuel cells).
7. Net Imports = total imports - total exports

Hungary**Table 3a. Summary electricity production and consumption¹ (TWh)**

	1974	1990	2000	2005	2010	2013	2014	2015e
Gross production	18.99	28.44	35.19	35.76	37.37	30.29	29.37	30.19
- Own use by power plant	1.82	2.54	2.93	2.54	2.76	2.25	2.24	-
Net production	17.16	25.90	32.26	33.22	34.61	28.05	27.13	-
- Used for heat pumps	-	-	-	-	-	-	0.00	-
- Used for electric boilers	-	-	-	-	-	-	-	-
- Used for pumped storage	-	-	-	-	-	-	-	-
+ Imports	5.76	13.30	9.52	15.64	9.90	16.64	19.08	19.94
- Exports	1.10	2.15	6.08	9.41	4.70	4.76	5.69	6.25
Electrical energy supplied	21.82	37.05	35.70	39.45	39.81	39.92	40.52	..
- Transmission & distr. losses	1.95	4.04	4.84	3.94	3.80	3.66	3.63	..
- Statistical difference	-	-	-	-	-	-0.02	1.02	..
Total consumption	19.87	33.01	30.86	35.51	36.01	36.28	35.87	..
Energy industry consumption²	1.12	1.42	1.42	3.17	1.80	1.41	1.16	..
Coal Mines	0.82	0.74	0.15	0.46	0.39	0.38	0.25	..
Oil + Gas Extraction	0.12	0.30	0.48	0.89	0.24	0.24	0.26	..
Patent Fuel Plants	0.00	0.02	0.00	0.00	0.00	-	-	..
Coke Ovens	0.01	0.01	0.05	0.05	0.06	0.06	0.06	..
BKB plants	0.01	-	-	-	-	-	-	..
Gas Works	-	-	-	-	-	-	-	..
Blast Furnaces	-	-	-	-	-	-	-	..
Oil Refineries	0.15	0.34	0.43	0.56	0.60	0.69	0.59	..
Nuclear Industry	-	-	-	-	-	-	-	..
Coal Liquefaction Plants	-	-	-	-	-	-	-	..
LNG/Regasification Plants	-	-	-	-	-	-	-	..
Energy - Non Specified	-	-	0.29	1.22	0.51	0.04	-	..
Final consumption	18.75	31.59	29.44	32.34	34.21	34.87	34.70	..
Industry	11.22	13.75	8.80	9.27	9.78	14.84	14.68	..
Iron and steel	1.61	1.75	0.58	0.76	0.52	0.58	0.59	..
Chem. and petrochemical	2.53	3.45	2.80	2.13	2.32	3.05	3.20	..
Non-ferrous metals	1.72	1.77	0.99	0.91	0.43	0.47	0.39	..
Non-metallic minerals	0.80	1.15	0.87	0.91	0.93	1.04	1.20	..
Transport equipment	0.42	0.37	0.29	0.75	0.93	1.48	1.47	..
Machinery	1.04	1.47	0.58	1.25	1.54	2.41	2.46	..
Mining and quarrying	0.36	0.31	0.10	0.08	0.06	0.16	0.09	..
Food and tobacco	0.81	1.64	1.09	1.23	1.36	2.26	2.08	..
Paper, pulp and printing	0.41	0.56	0.51	0.58	0.56	0.79	0.80	..
Wood and wood products	0.14	0.21	0.14	0.15	0.15	0.33	0.25	..
Construction	0.29	0.20	0.03	0.07	0.12	0.33	0.26	..
Textile and leather	0.82	0.83	0.23	0.19	0.13	0.19	0.20	..
Non specified/other	0.28	0.05	0.59	0.26	0.74	1.76	1.70	..
Transport	0.84	1.19	1.02	1.10	1.11	1.23	1.15	..
Rail Transport	0.82	1.19	1.02	1.10	1.11	1.20	1.12	..
Pipeline Transport	-	-	-	-	-	0.01	0.01	..
Road	-	-	-	-	-	0.02	0.02	..
Transport Non Specified	0.02	-	-	-	-	-	-	..
Commercial & publ. serv.	2.87	9.19	9.79	11.12	11.20	10.58	10.42	..
Residential	2.08	5.54	8.88	9.93	11.36	7.51	7.65	..
Agriculture	1.58	1.93	0.96	0.93	0.75	0.71	0.80	..
Fishing	-	-	-	-	0.01	0.01	0.02	..
Sector non specified	0.15	-	-	-	-	-	-	..

1. Electricity generation from main activity producer power plants and autoproducers .

2. Energy industry consumption = electricity consumed by transformation industries for heating, traction and lighting purposes;

excludes own use by power plant and electricity used for heat pumps, electric boilers and pumped storage.

Hungary**Table 3b. Summary heat production and consumption¹ (TJ)**

	1974	1990	2000	2005	2010	2013	2014	2015e
Gross production	50164	73854	69157	63597	52984	49019	42791	44933
- Own use by power plant	-	-	-	-	-	-	-	-
Net production	50164	73854	69157	63597	52984	49019	42791	-
- Used for electricity production	-	-	-	-	-	-	-	-
+ Imports	-	-	-	-	-	-	-	-
- Exports	-	-	-	-	-	-	-	-
Heat energy supplied	50164	73854	69157	63597	52984	49019	42791	..
- Transmission & distr. losses	3555	4945	3373	5053	4256	3493	3999	..
- Statistical difference	-	-	-	-	-42	-375	-504	..
Total consumption	50164	68909	65784	58544	48770	45901	39296	..
Energy industry consumption²	5196	2282	5197	3773	3145	2300	1437	..
Coal Mines	-	-	-	-	-	-	-	..
Oil + Gas Extraction	-	-	-	-	-	-	4	..
Patent Fuel Plants	-	-	-	-	-	-	-	..
Coke Ovens	-	-	-	-	-	-	-	..
BKB plants	-	-	-	-	-	-	-	..
Gas Works	-	-	-	-	-	-	-	..
Blast Furnaces	-	-	-	-	-	-	-	..
Oil Refineries	-	2282	5197	3773	3145	2300	1433	..
Nuclear Industry	1641	-	-	-	-	-	-	..
Coal Liquefaction Plants	-	-	-	-	-	-	-	..
LNG/Regasification Plants	-	-	-	-	-	-	-	..
Energy - Non Specified	-	-	-	-	-	-	-	..
Final consumption	44968	66627	60587	54771	45625	43601	37859	..
Industry	18001	9620	21646	15760	12583	15853	14330	..
Iron and steel	1736	847	912	1236	737	822	899	..
Chem. and petrochemical	4110	2515	12653	7597	6429	9425	8964	..
Non-ferrous metals	1319	1173	2294	2461	2076	1548	632	..
Non-metallic minerals	924	256	420	244	173	112	132	..
Transport equipment	1024	436	522	532	376	392	302	..
Machinery	1390	592	196	226	224	214	202	..
Mining and quarrying	445	318	5	-	-	-	-	..
Food and tobacco	3053	2008	1555	938	675	1074	1044	..
Paper, pulp and printing	796	312	1734	1936	1467	1431	1555	..
Wood and wood products	356	139	31	40	-	-	-	..
Construction	619	180	46	116	49	146	222	..
Textile and leather	2047	802	850	158	40	15	12	..
Non specified/other	182	42	428	276	337	674	366	..
Transport	-	-	-	-	-	-	-	..
Commercial & publ. serv.	8914	19115	10975	9561	9182	5832	5481	..
Residential	12820	34758	27961	29440	23851	21907	18035	..
Agriculture	4153	3134	5	10	9	9	13	..
Fishing	-	-	-	-	-	-	-	..
Sector non specified	1080	-	-	-	-	-	-	..

1. Heat generation from main activity producer power plants and autoproducers.

2. Energy industry consumption = electricity consumed by transformation industries for heating, traction and lighting purposes;

excludes own use by power plant and electricity used for heat pumps, electric boilers and pumped storage.

Hungary

Table 4a. Gross electricity production by source (TWh)

	1974	1990	2000	2010	2013	2014	2015e	74-00	00-15
Total plants gross production¹	18.99	28.44	35.19	37.37	30.29	29.37	30.19	2.4	-1.0
Nuclear	-	13.73	14.18	15.76	15.37	15.65	15.83	-	0.7
Hydro	0.08	0.18	0.18	0.19	0.21	0.30	0.23	3.1	1.8
- Of which pumped storage	-	-	-	-	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-	-	-
Solar	-	-	-	0.00	0.03	0.06	0.11	-	-
Wind	-	-	-	0.53	0.72	0.66	0.69	-	-
Combustible fuels	18.90	14.53	20.83 e	20.89	13.93	12.65	13.28	0.4	-3.0
- Coal	..	8.67	9.71	6.35	6.38	6.11	5.90	..	-3.3
- Oil	..	1.35	4.40	0.49	0.08	0.07	0.05	..	-25.8
- Natural gas	..	4.47	6.60	11.60	5.54	4.23	5.07	..	-1.7
- Biofuels & waste	..	0.03	0.12	2.45	1.93	2.24	2.26	..	21.6
Other ²	-	-	-	-	0.03	0.06	0.04	-	-
Of which autoproducers	1.07	0.97	0.50	0.43	0.61	0.64	..	-2.9	..
Nuclear	-	-	-	-	-	-	..	-	..
Hydro	-	-	-	-	-	-	..	-	..
- Of which pumped storage	-	-	-	-	-	-	..	-	..
Geothermal	-	-	-	-	-	-	..	-	..
Solar	-	-	-	0.00	0.03	0.06	..	-	..
Wind	-	-	-	-	-	-	..	-	..
Combustible fuels	1.07	0.97	0.50 e	0.43	0.56	0.53	..	-2.9	-
- Coal	..	0.13	-	-	0.03	0.03
- Oil	..	0.33	0.07	0.01	0.01	0.02
- Natural gas	..	0.51	0.42	0.31	0.32	0.29
- Biofuels & waste	..	-	0.01	0.10	0.19	0.19
Other ²	-	-	-	-	0.03	0.06	..	-	..

Table 4b. Gross heat production by source (PJ)

	1974	1990	2000	2010	2013	2014	2015e	74-00	00-15
Total plants heat generation³	50.16	73.85	69.16	52.98	49.02	42.79	44.93	1.2	-2.8
Nuclear	-	-	0.61	0.50	0.51	0.46	0.49	-	-1.4
Geothermal	-	-	0.22	0.23	0.57	1.17	1.25	-	12.4
Combustible fuels	50.16	73.85	68.33	52.24	46.98	39.67	42.59	1.2	-3.1
- Coal	..	23.58	18.75	7.00	5.27	4.57	4.59	..	-9.0
- Oil	..	12.89	4.83	0.21	0.23	0.18	0.13	..	-21.5
- Natural gas	..	36.83	43.79	41.47	36.79	30.74	33.06	..	-1.9
- Biofuels & waste	..	0.56	0.96	3.56	4.69	4.18	4.81	..	11.3
Chemical processes	-	-	-	-	-	-	-	-	-
Heat pumps	-	-	-	-	-	-	-	-	-
Electric boilers	-	-	-	-	-	-	-	-	-
Other sources	-	-	-	-	0.97	1.50	0.60	-	-
Of which Autoproducers	13.93	20.18	5.15	1.62	2.80	2.89	..	-3.8	..
Nuclear	-	-	-	-	-	-	..	-	..
Geothermal	-	-	-	-	-	0.24	..	-	..
Combustible fuels	13.93	20.18	5.15	1.62	1.83	1.15	..	-3.8	..
- Coal	..	3.96	-	-	-	-
- Oil	..	6.63	0.41	0.00	0.07	-
- Natural gas	..	9.59	4.66	1.50	1.44	0.86
- Biofuels & waste	..	-	0.08	0.12	0.32	0.29
Chemical processes	-	-	-	-	-	-	..	-	..
Heat pumps	-	-	-	-	-	-	..	-	..
Electric boilers	-	-	-	-	-	-	..	-	..
Other sources	-	-	-	-	0.97	1.50	..	-	..

1. Electricity generated from main activity producer power plants and autoproducers.

2. Includes wave, ocean and other sources (e.g. fuel cells, electricity from chemical heat).

3. Total heat generation = gross production of heat from main activity producer + heat sold in autoproducers.

Hungary**Table 5. Net electricity production by autoproducers (GWh)**

	1974	1990	2000	2010	2012	2013	2014	74-00	00-14
Total	963	876	492	392	479	557	581	-2.5	1.2
Total energy	-	-	123	32	72	58	56	-	-5.5
Coal mines	-	-	-	-	-	-	-	-	-
Oil and gas extraction	-	-	-	5	-	-	-	-	-
Patent fuel plants	-	-	-	-	32	27	28	-	-
Coke ovens	-	-	-	-	-	-	-	-	-
Gas works	-	-	-	-	-	-	-	-	-
BKB	-	-	80	27	29	31	28	-	-7.2
Oil refineries	-	-	-	-	-	-	-	-	-
Energy non specified/other	-	-	-	-	-	-	-	-	-
Total industry	-	-	369	277	271	290	297	-	-1.5
Iron and steel	-	-	-	-	-	-	-	-	-
Chemical and petrochemical	-	-	81	37	44	66	90	-	0.8
Non-ferrous metals	-	-	29	-	-	-	-	-	-
Non-metallic minerals	-	-	-	9	2	-	-	-	-
Transport equipment	-	-	-	-	15	1	24	-	-
Machinery	-	-	1	-	-	-	-	-	-
Mining and quarrying	-	-	-	-	-	-	-	-	-
Food and tobacco	-	-	186	206	185	154	127	-	-2.7
Pulp and printing	-	-	64	-	-	-	-	-	-
Wood and wood products	-	-	-	-	-	-	-	-	-
Construction	-	-	-	7	1	48	34	-	-
Textile and leather	-	-	1	-	-	-	-	-	-
Non specified/other industries	-	-	7	18	24	21	22	-	8.5
Total transport	-	-	-	-	-	-	-	-	-
Rail	-	-	-	-	-	-	-	-	-
Pipeline	-	-	-	-	-	-	-	-	-
Transport non specified	-	-	-	-	-	-	-	-	-
Other	963	876	-	83	136	209	228	-	-
Commerce and pub. services	-	-	-	47	72	95	91	-	-
Residential	-	-	-	-	-	-	-	-	-
Agriculture	-	-	-	28	56	89	82	-	-
Fishing	-	-	-	-	-	-	-	-	-
Sector non specified	963	876	-	8	8	25	55	-	-

Notes: Data reported in this table prior to 1990 may refer to combustible fuels only.

Hungary**Table 6a. Electricity production from combustible fuels in electricity plants¹**

	1990	2000	2005	2010	2012	2013	2014	90-00	00-14
Steam coal									
Fuel input (1000 t)	-	-	223	188	-	-	11	-	-
Fuel input (TJ)	-	-	4202	4272	-	-	186	-	-
Electricity production (GWh)	-	-	189	303	-	-	13	-	-
Lignite									
Fuel input (1000 t)	10826	10429	9153	8650	9087	9185	8792	-0.4	-1.2
Fuel input (TJ)	93889	87353	69429	61417	65730	65056	62305	-0.7	-2.4
Electricity production (GWh)	7861	8290	6412	5813	6268	6229	5929	0.5	-2.4
Coal manufactured gases²									
Fuel input (TJ)	268	-	329	561	1540	924	972	-	-
Electricity production (GWh)	22	-	27	38	73	39	43	-	-
Other coal products³									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
Oil and petroleum products									
Fuel input (1000 t)	241	962	101 e	113	51	16	13	14.8	-26.5
Fuel input (TJ)	9590	38687	4069 e	4590	2107	660	538	15.0	-26.3
Electricity production (GWh)	850	4149	388 e	484	180	61	48	17.2	-27.3
Natural gas²									
Fuel input (TJ)	38859	37602	48270	46598	35799	10095	7248	-0.3	-11.1
Electricity production (GWh)	3152	3620	4405	4745	3920	1303	921	1.4	-9.3
Solid biofuels									
Fuel input (TJ)	-	-	18941	23671	13790	14042	18279	-	-
Electricity production (GWh)	-	-	1547	1900	1218	1268	1550	-	-
Industrial waste									
Fuel input (TJ)	-	-	154	28	64	52	173	-	-
Electricity production (GWh)	-	-	13	3	6	5	16	-	-
Municipal waste									
Fuel input (TJ)	-	-	-	1314	610	802	810	-	-
Electricity production (GWh)	-	-	-	132	60	79	79	-	-
Biogases and liquid biofuels									
Fuel input (TJ)	-	-	-	96	540	863	679	-	-
Electricity production (GWh)	-	-	-	10	58	92	69	-	-
Total combustible fuels									
Electricity production (GWh)	11885	16059	12981 e	13428	11783	9076	8668	3.1	-4.3

1. Excludes CHP plants.

2. Coal manufactured gases and natural gas are expressed on a gross calorific value basis.

3. Includes Coking coal as well as peat and peat products, patent fuels, BKB and shale oil

Hungary

**Table 6b. Electricity and heat produced for sale from combustible fuels
in combined heat and power plants (CHP plants)**

	1990	2000	2005	2010	2012	2013	2014	90-00	00-14
Steam coal									
Fuel input (1000 t)	-	43	270	115	125	102	87	-	5.2
Fuel input (TJ)	-	814	4923	2412	2146	1692	1404	-	4.0
Electricity production (GWh)	-	67	154	98	61	47	38	-	-4.0
CHP Heat production (TJ)	-	393	3170	1526	1487	1081	946	-	6.5
Lignite									
Fuel input (1000 t)	2551	2543	163	92	73	91	68	-0.0	-22.8
Fuel input (TJ)	22237	26510	1952	834	609	788	559	1.8	-24.1
Electricity production (GWh)	688	1233	268	20	15	24	15	6.0	-27.0
CHP Heat production (TJ)	13888	14800	693	583	344	434	324	0.6	-23.9
Coal manufactured gases¹									
Fuel input (TJ)	944	5081	3078	3707	3597	1918	2955	18.3	-3.8
Electricity production (GWh)	98	117	96	78	75	45	76	1.8	-3.0
CHP Heat production (TJ)	395	3545	1762	2127	1905	1351	1484	24.5	-6.0
Other coal products²									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
CHP Heat production (TJ)	-	-	-	-	-	-	-	-	-
Petroleum products									
Fuel input (1000 t)	219	145	27	3	3	3	6	-4.0	-20.3
Fuel input (TJ)	8793	5604	1059	78	61	108	225	-4.4	-20.5
Electricity production (GWh)	501	255	67	6	5	15	25	-6.5	-15.3
CHP Heat production (TJ)	4910	4014	639	38	26	33	83	-2.0	-24.2
Natural gas¹									
Fuel input (TJ)	35818	55915	90930	74161	56534	47557	37316	4.6	-2.8
Electricity production (GWh)	1321	2982	7974	6853	5481	4237	3304	8.5	0.7
CHP Heat production (TJ)	20002	27052	33739	29590	18592	16638	14214	3.1	-4.5
Solid Biofuels									
Fuel input (TJ)	-	133	379	3423	2681	3621	3252	-	25.7
Electricity production (GWh)	-	10	27	134	115	161	152	-	21.5
CHP Heat production (TJ)	-	75	227	2201	1773	2279	2003	-	26.4
Industrial waste									
Fuel input (TJ)	-	-	-	87	277	244	225	-	-
Electricity production (GWh)	-	-	-	4	1	1	-	-	-
CHP Heat production (TJ)	-	-	-	-	178	162	150	-	-
Municipal waste									
Fuel input (TJ)	988	2436	2764	3144	3232	3121	3286	9.4	2.2
Electricity production (GWh)	34	110	118	158	162	152	160	12.5	2.7
CHP Heat production (TJ)	318	815	776	1076	618	600	735	9.9	-0.7
Biogases and liquid biofuels									
Fuel input (TJ)	-	-	122	749	1068	1406	1436	-	-
Electricity production (GWh)	-	-	25	108	153	175	214	-	-
CHP Heat production (TJ)	-	-	4	110	38	90	76	-	-
Total combustible fuels									
Electricity production (GWh)	2642	4774	8729	7459	6068	4857	3984	6.1	-1.3
CHP Heat production (TJ)	39513	50694	41010	37251	24961	22668	20015	2.5	-6.4

1. Coal manufactured gases and natural gas are expressed on a gross calorific value basis.

2. Includes Coking coal as well as peat and peat products, patent fuels, BKB and shale oil

Hungary**Table 6c. Heat produced for sale from combustible fuels in heat plants¹**

	1990	2000	2005	2010	2012	2013	2014	90-00	00-14
Steam coal									
Fuel input (1000 t)	-	-	165	65	87	51	2	-	-
Fuel input (TJ)	-	-	3193	1586	1476	819	35	-	-
Heat production (TJ)	-	-	2206	1232	1162	638	24	-	-
Lignite									
Fuel input (1000 t)	1157	1	53	-	24	8	9	-50.6	17.0
Fuel input (TJ)	11687	12	391	-	249	89	103	-49.7	16.6
Heat production (TJ)	7929	11	261	-	164	71	77	-48.2	14.9
Coal manufactured gases²									
Fuel input (TJ)	717	-	1632	2424	2273	2279	2020	-	-
Heat production (TJ)	541	-	1295	1536	1644	1691	1714	-	-
Other coal products³									
Fuel input (1000 t)	66	-	-	-	-	-	-	-	-
Fuel input (TJ)	1234	-	-	-	-	-	-	-	-
Heat production (TJ)	827	-	-	-	-	-	-	-	-
Petroleum products									
Fuel input (1000 t)	272	22	13	6	6	5	3	-22.2	-13.3
Fuel input (TJ)	11229	907	484	196	236	214	119	-22.2	-13.5
Heat production (TJ)	7976	817	401	173	212	194	101	-20.4	-13.9
Natural gas²									
Fuel input (TJ)	25668	20510	21937	16546	24493	24708	20445	-2.2	-0.0
Heat production (TJ)	16828	16739	17296	11879	19722	20156	16522	-0.1	-0.1
Solid biofuels									
Fuel input (TJ)	291	107	299	195	810	1859	1550	-9.5	21.0
Heat production (TJ)	240	72	224 e	162	694	1556	1219	-11.3	22.4
Industrial waste									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Heat production (TJ)	-	-	-	-	-	-	-	-	-
Municipal waste									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Heat production (TJ)	-	-	-	-	-	-	-	-	-
Biogases and liquid biofuels									
Fuel input (TJ)	-	-	-	13	19	1	-	-	-
Heat production (TJ)	-	-	-	11	15	1	-	-	-
Total combustible fuels									
Heat production (TJ)	34341	17639	21683 e	14993	23613	24307	19657	-6.4	0.8

1. Excludes CHP plants

2. Coal manufactured gases and natural gas are expressed on a gross calorific value basis.

3. Includes Coking coal as well as peat and peat products, patent fuels, BKB and shale oil

Hungary**Table 7. Net maximum electricity generating capacity on 31 December (GW)**

	1974	1990	2000	2005	2010	2012	2013	2014
Total capacity¹	3.91	7.18	8.28	8.59	8.99	9.40	8.42	8.81
Nuclear	-	1.76	1.85	1.87	2.00	2.00	2.00	2.00
Hydro	0.02	0.05	0.05	0.05	0.05	0.06	0.06	0.06
<i>of which: pumped storage</i>	-	-	-	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-	-
Solar PV	-	-	-	-	-	0.01	0.04	0.08
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	-	-	0.02	0.29	0.33	0.33	0.33
Other (e.g. fuel cells)	-	-	-	-	-	-	0.01	0.01
Combustible fuels	3.89	5.38	6.38	6.65	6.65	7.01	5.99	6.33
<i>of which⁽²⁾:</i>								
<i>Single-fired:</i>								
Coal and Coal products	2.12	2.03	1.83	1.24	0.04	0.08	0.07	0.08
Liquid fuels	0.12	0.20	0.58	0.41	0.41	0.41	0.35	0.37
Natural gas	-	-	-	0.42	1.30	1.31	1.14	1.21
Biofuels & waste	-	-	-	0.37	0.19	0.16	0.15	0.16
<i>Multi-fired:</i>								
Solid / liquid	-	-	-	-	1.13	0.12	0.10	0.11
Solid / natural gas	-	-	-	0.13	0.30	0.04	0.05	0.05
Liquid / natural gas	1.44	2.93	3.78	3.95	3.22	3.79	3.20	3.38
Solid / liquid / gas	0.21	0.21	0.20	0.14	0.05	1.09	0.93	0.98
<u>Type of generation</u>								
Steam	3.66	4.81	5.02	4.43	4.05	3.57	2.85	2.58
Internal combustion	-	-	-	0.43	0.52	0.44	0.51	0.54
Gas turbine	0.12	0.20	0.58	0.68	1.20	1.72	0.87	0.92
Combined cycle	0.12	0.37	0.78	1.13	0.87	1.28	1.76	2.30
Other	-	-	-	-	-	-	-	-
<u>Peak load</u>	4.02	6.53	5.74	6.44	6.56	6.46	6.31	6.46
Of which Autoproducers	0.21	0.21	0.20	0.14	0.15	0.11	0.20	0.26
Nuclear	-	-	-	-	-	-	-	-
Hydro	-	-	-	-	-	-	-	-
<i>of which: pumped storage</i>	-	-	-	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-	-
Solar PV	-	-	-	-	-	0.01	0.04	0.08
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	-	-	-	-	-	-	-
Other (e.g. fuel cells)	-	-	-	-	-	-	0.01	0.01
Combustible fuels	0.21	0.21	0.20	0.14	0.15	0.10	0.16	0.17

1. Sum of available capacity figures

2. Breakdown of electrical capacity by type of fuel are shown in the individual country chapters.

Hungary**Table 8. Capacity factors (%)**

	1974	1990	2000	2005	2010	2012	2013	2014
Total plants¹	55.4	45.2	48.5	47.5	47.4	42.1	41.1	38.1
Nuclear	-	89.1	87.5	84.6	90.0	90.1	87.7	89.3
Hydro	46.2	42.3	42.3	47.1	40.5	43.4	42.7	60.5
<i>of which: pumped storage</i>	-	-	-	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-	-
Solar PV	-	-	-	-	5.7	7.6	8.2	8.3
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	-	-	6.7	20.8	27.1	24.9	22.8
Other (e.g. fuel cells)	-	-	-	-	-	-	36.5	48.3
Combustible fuels	55.5	30.9	37.3	37.3	35.9	29.1	26.6	22.8
Of which autoproducers	57.9	52.6	28.7	34.8	32.4	52.1	34.8	28.0
Nuclear	-	-	-	-	-	-	-	-
Hydro	-	-	-	-	-	-	-	-
<i>of which: pumped storage</i>	-	-	-	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-	-
Solar PV	-	-	-	-	5.7	7.6	8.2	8.3
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	-	-	-	-	-	-	-
Other (e.g. fuel cells)	-	-	-	-	-	-	36.5	48.3
Combustible fuels	57.9	52.6	28.7	34.8	32.8	57.4	40.6	35.2

1. The capacity factor is defined as: the annual gross electricity generation (in GWh) divided by the net capacity (in GW) times 365 (days/year) times 24 (hours/day)

Hungary**Table 9a. Electricity imports by origin (GWh)**

	1974	1990	2000	2005	2010	2012	2013	2014
Total imports	5756	13299	9523	15637	9897	16970	16635	19079
Total from OECD	603	1076	7976	9616	5948	12659	9676	11924
Austria	251	298	426	809	1013	2428	1378	2567
Belgium	-	-	-	-	-	-	-	-
Canada	-	-	-	-	-	-	-	-
Czech Republic	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-
Greece	-	-	-	-	-	-	-	-
Hungary	-	-	-	-	-	-	-	-
Ireland	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-
Luxembourg	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-
Poland	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-
Slovak Republic	352	778	7550	8807	4935	10231	8298	9357
Slovenia	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-
Switzerland	-	-	-	-	-	-	-	-
Turkey	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-
United States	-	-	-	-	-	-	-	-
Total from non-OECD	5153	12223	1547	6021	3949	4311	6959	7155
Albania	-	-	-	-	-	-	-	-
Azerbaijan	-	-	-	-	-	-	-	-
Belarus	-	-	-	-	-	-	-	-
Bulgaria	-	-	-	-	-	-	-	-
Croatia	-	1	-	-	93	4	415	60
F.Y.R. of Macedonia	-	-	-	-	-	-	-	-
Georgia	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-
Romania	1482	-	-	1187	1252	215	758	1269
Russian Federation	-	-	-	-	-	-	-	-
Serbia	16	62	-	18	544	78	950	212
Syria	-	-	-	-	-	-	-	-
Turkmenistan	-	-	-	-	-	-	-	-
Ukraine	3655	12160	1547	4816	2060	4014	4836	5614
Non-specified/others	-	-	-	-	-	-	-	-

Hungary**Table 9b. Electricity exports by destination (GWh)**

	1974	1990	2000	2005	2010	2012	2013	2014
Total exports	1097	2152	6083	9410	4702	9003	4758	5689
Total to OECD	1068	1787	842	854	697	337	1022	547
Austria	471	281	842	854	641	335	1014	547
Belgium	-	-	-	-	-	-	-	-
Canada	-	-	-	-	-	-	-	-
Czech Republic	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-
Greece	-	-	-	-	-	-	-	-
Hungary	-	-	-	-	-	-	-	-
Ireland	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-
Luxembourg	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-
Poland	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-
Slovak Republic	597	1506	-	-	56	2	8	-
Slovenia	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-
Switzerland	-	-	-	-	-	-	-	-
Turkey	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-
United States	-	-	-	-	-	-	-	-
Total to non-OECD	29	365	5241	8556	4005	8666	3736	5142
Albania	-	-	-	-	-	-	-	-
Azerbaijan	-	-	-	-	-	-	-	-
Belarus	-	-	-	-	-	-	-	-
Bulgaria	-	-	-	-	-	-	-	-
Croatia	-	-	4472	6690	3044	6296	2912	3737
F.Y.R. of Macedonia	-	-	-	-	-	-	-	-
Georgia	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-
Romania	-	61	-	146	146	965	525	154
Russian Federation	-	-	-	-	-	-	-	-
Serbia	29	294	765	1693	392	1295	278	1239
Syria	-	-	-	-	-	-	-	-
Turkmenistan	-	-	-	-	-	-	-	-
Ukraine	-	10	4	27	423	110	21	12
Non-specified/others	-							

Hungary**Table 10a. Share of electricity in total final consumption (%)**

	1974	1990	2000	2005	2010	2012	2013	2014
Share of total final consumption	9.4	13.1	14.7	13.9	16.2	17.3	18.1	17.8
Industry	15.1	19.4	22.9	25.3	32.0	33.0	34.1	32.2
Iron and steel	7.6	11.3	10.1	15.9	14.2	12.0	19.5	19.1
Chem. and petrochemical	25.8	28.5	29.1	31.2	39.0	43.5	25.0	23.6
Non-ferrous metals	43.2	57.6	34.7	33.0	22.2	23.5	26.8	27.7
Non-metallic minerals	6.6	9.6	13.0	12.2	18.2	17.6	22.6	23.3
Transport equipment	17.5	18.3	29.2	46.2	57.9	60.6	60.7	64.5
Machinery	17.8	26.4	28.7	38.9	51.8	52.9	54.1	52.5
Mining and quarrying	18.6	16.0	53.8	37.4	29.2	63.7	52.6	30.9
Food and tobacco	10.2	14.8	19.8	23.2	28.4	24.9	35.1	31.6
Paper, pulp and printing	37.0	55.4	26.8	29.3	30.4	31.4	35.3	35.0
Wood and wood products	19.1	26.0	19.0	22.9	38.0	30.9	45.0	38.0
Construction	10.6	11.8	10.0	11.4	19.5	17.7	15.1	11.1
Textile and leather	20.8	23.9	29.8	37.1	50.4	46.8	47.2	45.0
Non specified/other	43.2	8.3	53.8	41.0	59.4	59.1	61.5	59.1
Transport	2.9	3.5	2.9	2.4	2.3	2.2	3.0	2.5
Rail Transport	10.7	37.4	50.6	59.6	63.0	67.0	67.8	65.0
Pipeline Transport	-	-	-	-	-	-	3.1	2.2
Road	-	-	-	-	-	-	0.1	0.0
Transport Non Specified	100.0	-	-	-	-	-	-	-
Other sectors	8.1	14.4	18.2	18.0	21.4	23.8	20.7	22.3
Commercial & publ. serv.	15.4	23.6	25.3	24.3	31.2	35.9	26.4	29.3
Residential	6.6	11.8	15.1	14.8	16.8	17.9	18.8	20.2
Agriculture	11.2	14.7	12.3	14.3	13.2	16.6	11.9	11.5
Fishing	-	-	-	-	100.0	63.6	46.2	54.4
Sector non specified	1.3	-	-	-	-	-	-	-

Table 10b. Share of heat in total final consumption (%)

	1974	1990	2000	2005	2010	2012	2013	2014
Share of total final consumption	6.3	7.7	8.4	6.6	6.0	6.1	6.3	5.4
Industry	6.7	3.8	15.7	11.9	11.4	13.3	10.1	8.7
Iron and steel	2.3	1.5	4.4	7.2	5.6	4.9	7.7	8.1
Chem. and petrochemical	11.7	5.8	36.5	30.9	30.1	35.7	21.4	18.4
Non-ferrous metals	9.2	10.6	22.3	24.9	29.6	31.6	24.5	12.5
Non-metallic minerals	2.1	0.6	1.7	0.9	0.9	0.7	0.7	0.7
Transport equipment	11.8	6.0	14.5	9.1	6.5	6.3	4.5	3.7
Machinery	6.6	3.0	2.7	2.0	2.1	1.6	1.3	1.2
Mining and quarrying	6.4	4.6	0.8	-	-	-	-	-
Food and tobacco	10.7	5.1	7.8	4.9	3.9	2.9	4.6	4.4
Paper, pulp and printing	20.2	8.5	25.3	27.2	22.1	20.2	17.8	19.0
Wood and wood products	13.3	4.8	1.2	1.7	-	-	-	-
Construction	6.3	2.9	4.7	4.9	2.3	3.1	1.9	2.6
Textile and leather	14.4	6.4	30.9	8.8	4.2	1.5	1.0	0.8
Non specified/other	7.9	1.9	10.8	12.0	7.5	3.6	6.6	3.5
Transport	-	-	-	-	-	-	-	-
Other sectors	9.1	13.7	10.0	8.9	8.4	8.3	8.5	7.7
Commercial & publ. serv.	18.4	22.6	8.7	6.5	7.0	5.3	5.7	5.8
Residential	8.2	12.4	11.9	10.9	9.9	10.5	10.8	9.7
Agriculture	8.2	6.6	0.0	0.0	0.0	0.1	0.0	0.1
Fishing	-	-	-	-	-	-	-	-
Sector non specified	2.6	-	-	-	-	-	-	-

Source: IEA/OECD World Energy Balances.

Iceland

Figure 1. Total final consumption by fuel

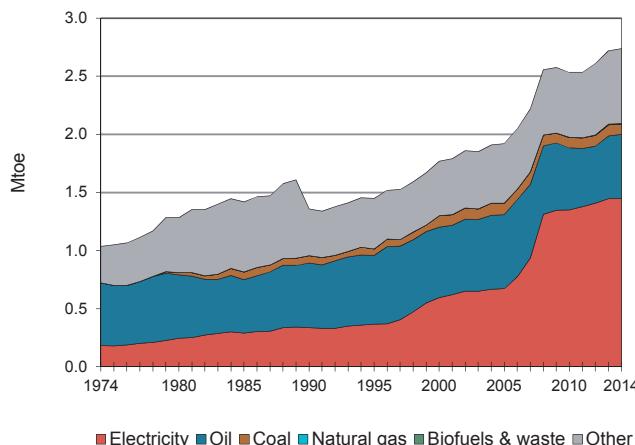


Figure 2. Electricity generation by fuel

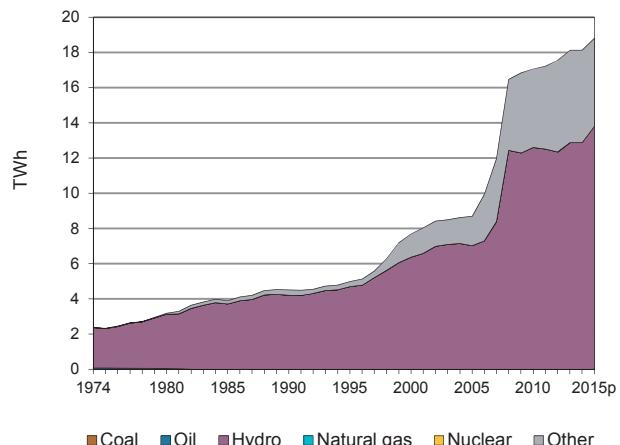


Figure 3. Electricity consumption by sector

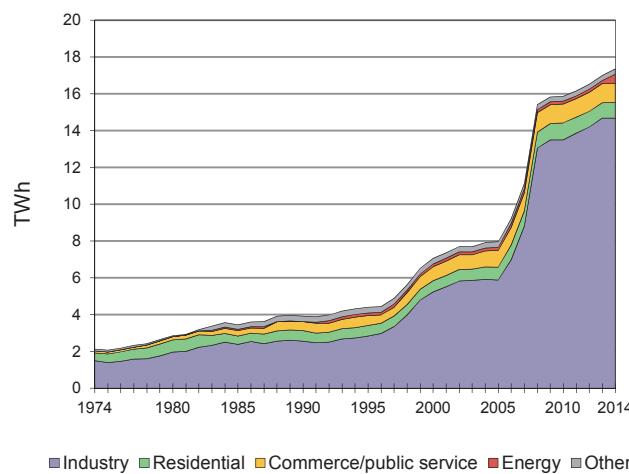


Figure 4. Electricity indicators

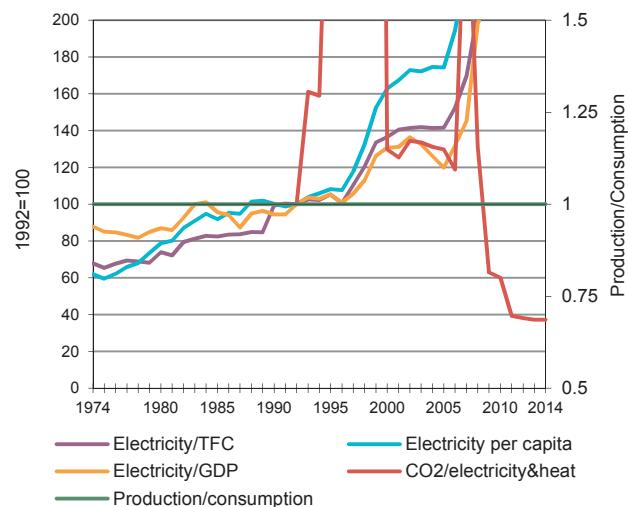
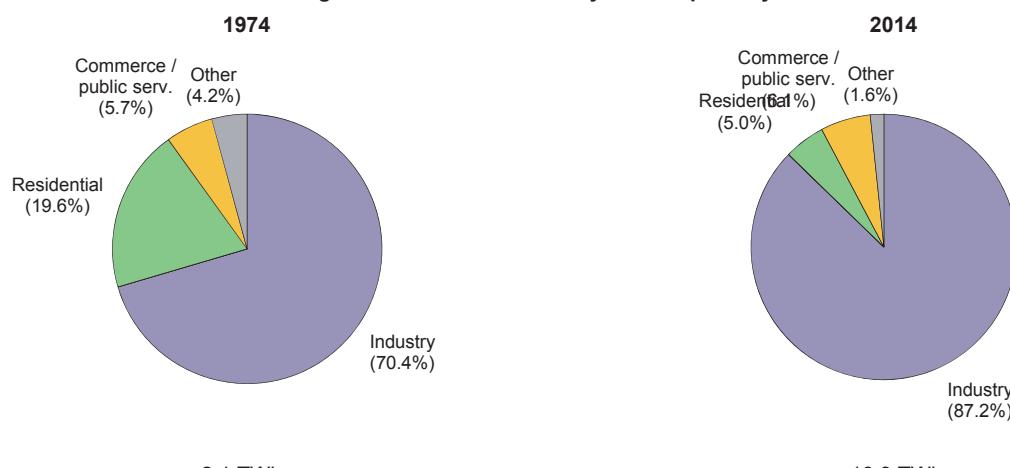


Figure 5. Total final electricity consumption by sector



Iceland**Table 1. Energy consumption, GDP and population**

	1974	1990	2000	2010	2013	2014	2015p	74-00	00-15
TPES (Mtoe)	1.10	2.27	3.12	5.41	5.89	5.87	5.78	4.1	4.2
GDP (billion 2005 USD)	4.38	7.83	10.13	13.24	14.19	14.45	15.02	3.3	2.7
TPES/GDP ¹	0.25	0.29	0.31	0.41	0.41	0.41	0.38	0.8	1.5
Population (millions)	0.22	0.26	0.28	0.32	0.32	0.33	0.33	1.0	1.1
TPES/population ²	5.14	8.90	11.10	17.03	18.16	17.94	17.47	3.0	3.1
TPES/GDP (2005 = 100)	100	116	123	163	165	162	153	0.8	1.5
Ele.TFC/GDP(2005=100) ³	77	80	109	189	189	186	..	1.3	..
Ele.TFC/population ⁴	9869	15339	24603	49410	51941	51486	..	3.6	..
Elec. generated (TWh) ⁵	2.37	4.51	7.68	17.06	18.12	18.12	18.80	4.6	6.1

Source: IEA/OECD *World Energy Balances* and OECD *Main Economic Indicators*.**Table 2. Total primary energy supply (TPES) by source**

	1974	1990	2000	2010	2013	2014	2015p	74-00	00-15
TPES (Mtoe)	1.10	2.27	3.12	5.41	5.89	5.87	5.78	4.1	4.2
Coal	-	0.06	0.10	0.09	0.10	0.09	0.09	-	-0.5
Oil	0.57	0.59	0.61	0.53	0.51	0.55	0.58	0.2	-0.4
Natural gas	-	-	-	-	-	-	-	-	-
Biofuels & waste	-	-	0.00	0.00	0.00	0.00	0.00	-	8.4
Nuclear	-	-	-	-	-	-	-	-	-
Geothermal	0.33	1.26	1.87	3.71	4.16	4.11	3.93	6.8	5.1
Solar, wind, tide ⁶	-	-	-	-	0.00	0.00	0.00	-	-
Hydro	0.20	0.36	0.55	1.08	1.11	1.11	1.19	4.0	5.3
Net electricity imports ⁷	-	-	-	-	-	-	-	-	-
Heat	-	-	-	-	-	-	-	-	-

Source: IEA/OECD *World Energy Balances*.

1. In units of toe/2005 thousand US dollars.

2. In units of toe/per capita.

3. Ele.TFC = electricity total final consumption.

4. In units of kWh/per capita.

5. Electricity generated = gross production - amount of electricity produced in pumped storage plants.

6. Includes wave, ocean and other (e.g. fuel cells).

7. Net Imports = total imports - total exports

Iceland**Table 3a. Summary electricity production and consumption¹ (TWh)**

	1974	1990	2000	2005	2010	2013	2014	2015e
Gross production	2.37	4.51	7.68	8.69	17.06	18.12	18.12	18.80
- Own use by power plant	0.02	0.06	0.13	0.17	0.31	0.34	0.45	-
Net production	2.34	4.45	7.55	8.51	16.75	17.77	17.67	-
- Used for heat pumps	-	-	-	-	-	-	-	-
- Used for electric boilers	-	0.14	0.18	0.17	0.19	0.19 e	0.20	0.20
- Used for pumped storage	-	-	-	-	-	-	-	-
+ Imports	-	-	-	-	-	-	-	-
- Exports	-	-	-	-	-	-	-	-
Electrical energy supplied	2.34	4.31	7.38	8.34	16.56	17.58	17.48	..
- Transmission & distr. losses	0.22	0.40	0.32	0.38	0.70	0.37	0.50	..
- Statistical difference	-	-	-	-	-	0.22	-0.37	..
Total consumption	2.12	3.91	7.06	7.96	15.86	16.99	17.35	..
Energy industry consumption²	-	0.00	0.15	0.16	0.15	0.17	0.52	..
Coal Mines	-	-	-	-	-	-	-	..
Oil + Gas Extraction	-	-	-	-	-	-	-	..
Patent Fuel Plants	-	-	-	-	-	-	-	..
Coke Ovens	-	-	-	-	-	-	-	..
BKB plants	-	-	-	-	-	-	-	..
Gas Works	-	-	-	-	-	-	-	..
Blast Furnaces	-	-	-	-	-	-	-	..
Oil Refineries	-	-	-	-	-	-	-	..
Nuclear Industry	-	-	-	-	-	-	-	..
Coal Liquefaction Plants	-	-	-	-	-	-	-	..
LNG/Regasification Plants	-	-	-	-	-	-	-	..
Energy - Non Specified	-	0.00	0.15	0.16	0.15	0.17 e	0.52	..
Final consumption	2.12	3.91	6.91	7.80	15.71	16.82	16.83	..
Industry	1.49	2.56	5.24	5.89	13.50	14.68	14.68	..
Iron and steel	-	0.57	0.98	0.98	0.93	1.07	0.99	..
Chem. and petrochemical	-	0.22	0.11	0.02	0.04	0.04	0.07	..
Non-ferrous metals	1.09	1.45	3.61	4.21	12.02	12.92	12.98	..
Non-metallic minerals	-	0.03	0.05	0.05	0.02	0.02	0.02	..
Transport equipment	-	-	0.01	0.01	0.00	0.01	0.01	..
Machinery	-	-	0.01	0.01	0.01	0.01	0.01	..
Mining and quarrying	-	0.00	0.01	0.00	0.00	0.00	0.00	..
Food and tobacco	-	0.18	0.39	0.44	0.41	0.53	0.52	..
Paper, pulp and printing	-	0.02	0.02	0.02	0.02	0.02	0.02	..
Wood and wood products	-	-	0.01	0.01	0.00	0.00	0.00	..
Construction	-	0.02	0.01	0.11	0.02	0.03	0.03	..
Textile and leather	-	0.03	0.02	0.01	0.00	0.00	0.00	..
Non specified/other	0.40	0.05	0.02	0.03	0.01	0.03	0.04	..
Transport	-	-	-	-	-	0.00	0.00	..
Rail Transport	-	-	-	-	-	-	-	..
Pipeline Transport	-	-	-	-	-	-	-	..
Road	-	-	-	-	-	-	-	..
Transport Non Specified	-	-	-	-	-	0.00	0.00	..
Commercial & publ. serv.	0.42	0.58	0.61	0.69	0.93	0.84	0.84	..
Residential	0.12	0.49	0.76	0.92	1.02	1.04	1.03	..
Agriculture	-	0.20	0.22	0.20	0.22	0.22	0.23	..
Fishing	-	0.01	0.01	0.04	0.04	0.05	0.05	..
Sector non specified	0.09	0.08	0.07	0.06	-	-	-	..

1. Electricity generation from main activity producer power plants and autoproducers .

2. Energy industry consumption = electricity consumed by transformation industries for heating, traction and lighting purposes;

excludes own use by power plant and electricity used for heat pumps, electric boilers and pumped storage.

Iceland**Table 3b. Summary heat production and consumption¹ (TJ)**

	1974	1990	2000	2005	2010	2013	2014	2015e
Gross production	-	15799	18236	19744	21549	22735	23118	23819
- Own use by power plant	-	-	-	-	-	-	-	-
Net production	-	15799	18236	19744	21549	22735	23118	-
- Used for electricity production	-	-	-	-	-	-	-	-
+ Imports	-	-	-	-	-	-	-	-
- Exports	-	-	-	-	-	-	-	-
Heat energy supplied	-	15799	18236	19744	21549	22735	23118	..
- Transmission & distr. losses	-	1733	2000	2166	2363	2614	2585	..
- Statistical difference	-	-	-	-1	2	-2273	-1910	..
Total consumption	-	14066	16236	17579	19184	22394	22443	..
Energy industry consumption²	-	-	-	-	-	-	-	..
Coal Mines	-	-	-	-	-	-	-	..
Oil + Gas Extraction	-	-	-	-	-	-	-	..
Patent Fuel Plants	-	-	-	-	-	-	-	..
Coke Ovens	-	-	-	-	-	-	-	..
BKB plants	-	-	-	-	-	-	-	..
Gas Works	-	-	-	-	-	-	-	..
Blast Furnaces	-	-	-	-	-	-	-	..
Oil Refineries	-	-	-	-	-	-	-	..
Nuclear Industry	-	-	-	-	-	-	-	..
Coal Liquefaction Plants	-	-	-	-	-	-	-	..
LNG/Regasification Plants	-	-	-	-	-	-	-	..
Energy - Non Specified	-	-	-	-	-	-	-	..
Final consumption	-	14066	16236	17579	19184	22394	22443	..
Industry	-	-	-	-	-	-	-	..
Iron and steel	-	-	-	-	-	-	-	..
Chem. and petrochemical	-	-	-	-	-	-	-	..
Non-ferrous metals	-	-	-	-	-	-	-	..
Non-metallic minerals	-	-	-	-	-	-	-	..
Transport equipment	-	-	-	-	-	-	-	..
Machinery	-	-	-	-	-	-	-	..
Mining and quarrying	-	-	-	-	-	-	-	..
Food and tobacco	-	-	-	-	-	-	-	..
Paper, pulp and printing	-	-	-	-	-	-	-	..
Wood and wood products	-	-	-	-	-	-	-	..
Construction	-	-	-	-	-	-	-	..
Textile and leather	-	-	-	-	-	-	-	..
Non specified/other	-	-	-	-	-	-	-	..
Transport	-	-	-	-	-	-	-	..
Commercial & publ. serv.	-	5763 e	6652 e	7202 e	7860 e	9175 e	9195	..
Residential	-	7525 e	8685 e	9403 e	10262 e	11979 e	12005	..
Agriculture	-	266 e	307 e	333 e	363 e	424 e	425	..
Fishing	-	258 e	298 e	323 e	352 e	411 e	412	..
Sector non specified	-	254 e	294 e	318 e	347 e	405 e	406	..

1. Heat generation from main activity producer power plants and autoproducers.

2. Energy industry consumption = electricity consumed by transformation industries for heating, traction and lighting purposes;

excludes own use by power plant and electricity used for heat pumps, electric boilers and pumped storage.

Iceland

Table 4a. Gross electricity production by source (TWh)

	1974	1990	2000	2010	2013	2014	2015e	74-00	00-15
Total plants gross production¹	2.37	4.51	7.68	17.06	18.12	18.12	18.80	4.6	6.1
Nuclear	-	-	-	-	-	-	-	-	-
Hydro	2.29	4.20	6.36	12.59	12.86	12.87	13.78	4.0	5.3
- Of which pumped storage	-	-	-	-	-	-	-	-	-
Geothermal	0.01	0.30	1.32	4.47	5.25	5.24	5.00	21.7	9.3
Solar	-	-	-	-	-	-	-	-	-
Wind	-	-	-	-	0.00	0.01	0.01	-	-
Combustible fuels	0.07	0.01	0.01	0.00	0.01	0.00	0.00	-9.8	-1.5
- Coal	..	-	-	-	-	-	-	..	-
- Oil	..	0.01	0.01	0.00	0.01 e	0.00	0.00	..	-1.5
- Natural gas	..	-	-	-	-	-	-	..	-
- Biofuels & waste	..	-	-	-	-	-	-	..	-
Other ²	-	-	-	-	-	-	-	-	-
Of which autoproducers	0.01	0.01	0.01	-	-	-	-	-	-
Nuclear	-	-	-	-	-	-	..	-	..
Hydro	0.00	0.00	0.00	-	-	-	..	-	..
- Of which pumped storage	-	-	-	-	-	-	..	-	..
Geothermal	-	-	-	-	-	-	..	-	..
Solar	-	-	-	-	-	-	..	-	..
Wind	-	-	-	-	-	-	..	-	..
Combustible fuels	0.00	0.00	0.00	-	-	-	..	-	..
- Coal	..	-	-	-	-	-	..	-	..
- Oil	..	0.00	0.00	-	-	-	..	-	..
- Natural gas	..	-	-	-	-	-	..	-	..
- Biofuels & waste	..	-	-	-	-	-	..	-	..
Other ²	-	-	-	-	-	-	..	-	..

Table 4b. Gross heat production by source (PJ)

	1974	1990	2000	2010	2013	2014	2015e	74-00	00-15
Total plants heat generation³	-	15.80	18.24	21.55	22.74	23.12	23.82	-	1.8
Nuclear	-	-	-	-	-	-	-	-	-
Geothermal	-	15.34	17.60	20.86	22.06	22.44	23.12	-	1.8
Combustible fuels	-	-	0.07	0.04	-	-	-	-	-
- Coal	..	-	-	-	-	-	-	..	-
- Oil	..	-	0.02	0.01	-	-	-	..	-
- Natural gas	..	-	-	-	-	-	-	..	-
- Biofuels & waste	..	-	0.05	0.03	-	-	-	..	-
Chemical processes	-	-	-	-	-	-	-	-	-
Heat pumps	-	-	-	-	-	-	-	-	-
Electric boilers	-	0.46	0.57	0.65	0.68 e	0.68 e	0.70	-	1.3
Other sources	-	-	-	-	-	-	-	-	-
Of which Autoproducers	-	-	-	0.04	0.01	0.01	-	-	-
Nuclear	-	-	-	-	-	-	..	-	..
Geothermal	-	-	-	-	-	-	..	-	..
Combustible fuels	-	-	-	0.03	-	-	..	-	..
- Coal	..	-	-	-	-	-	..	-	..
- Oil	..	-	-	-	-	-	..	-	..
- Natural gas	..	-	-	-	-	-	..	-	..
- Biofuels & waste	..	-	-	0.03	-	-	..	-	..
Chemical processes	-	-	-	-	-	-	..	-	..
Heat pumps	-	-	-	-	-	-	..	-	..
Electric boilers	-	-	-	0.01	0.01 e	0.01	..	-	..
Other sources	-	-	-	-	-	-	..	-	..

1. Electricity generated from main activity producer power plants and autoproducers.

2. Includes wave, ocean and other sources (e.g. fuel cells, electricity from chemical heat).

3. Total heat generation = gross production of heat from main activity producer + heat sold in autoproducers.

Iceland**Table 5. Net electricity production by autoproducers (GWh)**

	1974	1990	2000	2010	2012	2013	2014	74-00	00-14
Total	5	5	5	-	-	-	-	-	-
Total energy	-	-	-	-	-	-	-	-	-
Coal mines	-	-	-	-	-	-	-	-	-
Oil and gas extraction	-	-	-	-	-	-	-	-	-
Patent fuel plants	-	-	-	-	-	-	-	-	-
Coke ovens	-	-	-	-	-	-	-	-	-
Gas works	-	-	-	-	-	-	-	-	-
BKB	-	-	-	-	-	-	-	-	-
Oil refineries	-	-	-	-	-	-	-	-	-
Energy non specified/other	-	-	-	-	-	-	-	-	-
Total industry	-	-	-	-	-	-	-	-	-
Iron and steel	-	-	-	-	-	-	-	-	-
Chemical and petrochemical	-	-	-	-	-	-	-	-	-
Non-ferrous metals	-	-	-	-	-	-	-	-	-
Non-metallic minerals	-	-	-	-	-	-	-	-	-
Transport equipment	-	-	-	-	-	-	-	-	-
Machinery	-	-	-	-	-	-	-	-	-
Mining and quarrying	-	-	-	-	-	-	-	-	-
Food and tobacco	-	-	-	-	-	-	-	-	-
Pulp and printing	-	-	-	-	-	-	-	-	-
Wood and wood products	-	-	-	-	-	-	-	-	-
Construction	-	-	-	-	-	-	-	-	-
Textile and leather	-	-	-	-	-	-	-	-	-
Non specified/other industries	-	-	-	-	-	-	-	-	-
Total transport	-	-	-	-	-	-	-	-	-
Rail	-	-	-	-	-	-	-	-	-
Pipeline	-	-	-	-	-	-	-	-	-
Transport non specified	-	-	-	-	-	-	-	-	-
Other	5	5	5	-	-	-	-	-	-
Commerce and pub. services	-	-	-	-	-	-	-	-	-
Residential	-	-	-	-	-	-	-	-	-
Agriculture	5	5	5	-	-	-	-	-	-
Fishing	-	-	-	-	-	-	-	-	-
Sector non specified	-	-	-	-	-	-	-	-	-

Notes: Data reported in this table prior to 1990 may refer to combustible fuels only.

Iceland**Table 6a. Electricity production from combustible fuels in electricity plants¹**

	1990	2000	2005	2010	2012	2013	2014	90-00	00-14
Steam coal									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
Lignite									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
Coal manufactured gases²									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
Other coal products³									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
Oil and petroleum products									
Fuel input (1000 t)	1	1	1	1	1	2 e	2	-	5.1
Fuel input (TJ)	66	46	58	17	36	60 e	60	-3.5	1.9
Electricity production (GWh)	6	5	5	2	3	5 e	3	-1.8	-3.6
Natural gas²									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
Solid biofuels									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
Industrial waste									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
Municipal waste									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
Biogases and liquid biofuels									
Fuel input (TJ)	-	-	42	-	-	-	-	-	-
Electricity production (GWh)	-	-	4	-	-	-	-	-	-
Total combustible fuels									
Electricity production (GWh)	6	5	9	2	3	5 e	3	-1.8	-3.6

1. Excludes CHP plants.

2. Coal manufactured gases and natural gas are expressed on a gross calorific value basis.

3. Includes Coking coal as well as peat and peat products, patent fuels, BKB and shale oil

Iceland**Table 6c. Heat produced for sale from combustible fuels in heat plants¹**

	1990	2000	2005	2010	2012	2013	2014	90-00	00-14
Steam coal									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Heat production (TJ)	-	-	-	-	-	-	-	-	-
Lignite									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Heat production (TJ)	-	-	-	-	-	-	-	-	-
Coal manufactured gases²									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Heat production (TJ)	-	-	-	-	-	-	-	-	-
Other coal products³									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Heat production (TJ)	-	-	-	-	-	-	-	-	-
Petroleum products									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	22	-	11	-	-	-	-	-
Heat production (TJ)	-	20	-	11	-	-	-	-	-
Natural gas²									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Heat production (TJ)	-	-	-	-	-	-	-	-	-
Solid biofuels									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Heat production (TJ)	-	-	-	-	-	-	-	-	-
Industrial waste									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Heat production (TJ)	-	-	-	-	-	-	-	-	-
Municipal waste									
Fuel input (TJ)	-	56	70	36	-	-	-	-	-
Heat production (TJ)	-	45	56	28	-	-	-	-	-
Biogases and liquid biofuels									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Heat production (TJ)	-	-	-	-	-	-	-	-	-
Total combustible fuels									
Heat production (TJ)	-	65	56	39	-	-	-	-	-

1. Excludes CHP plants

2. Coal manufactured gases and natural gas are expressed on a gross calorific value basis.

3. Includes Coking coal as well as peat and peat products, patent fuels, BKB and shale oil

Iceland**Table 7. Net maximum electricity generating capacity on 31 December (GW)**

	1974	1990	2000	2005	2010	2012	2013	2014
Total capacity¹	0.49	0.94	1.38	1.54	2.58	2.66	2.77	2.77
Nuclear	-	-	-	-	-	-	-	-
Hydro	0.38	0.76	1.06	1.16	1.88	1.88	1.98	1.98
<i>of which: pumped storage</i>	-	-	-	-	-	-	-	-
Geothermal	-	0.05	0.17	0.23	0.58	0.67	0.67	0.67
Solar PV	-	-	-	-	-	-	-	-
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	-	-	-	-	-	-	-
Other (e.g. fuel cells)	-	-	-	-	-	-	-	-
Combustible fuels	0.11	0.14	0.15	0.14	0.12	0.11	0.11 e	0.11
<i>of which⁽²⁾:</i>								
<i>Single-fired:</i>								
Coal and Coal products	-	-	-	-	-	-	-	-
Liquid fuels	0.11	0.14	0.15	0.14	0.12	0.11	0.11 e	0.11
Natural gas	-	-	-	-	-	-	-	-
Biofuels & waste	-	-	-	-	-	-	-	-
<i>Multi-fired:</i>								
Solid / liquid	-	-	-	-	-	-	-	-
Solid / natural gas	-	-	-	-	-	-	-	-
Liquid / natural gas	-	-	-	-	-	-	-	-
Solid / liquid / gas	-	-	-	-	-	-	-	-
Type of generation								
Steam	0.02	-	-	-	-	-	-	-
Internal combustion	0.06	0.11	0.11	0.11	0.09	0.08	0.08 e	0.08
Gas turbine	0.04	0.04	0.04	0.04	0.04	0.04	0.04 e	0.04
Combined cycle	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-
Peak load	0.41	0.67	1.07	1.20	2.18	2.22	2.22 e	2.32
Of which Autoproducers	0.02	0.03	0.03	0.03	-	-	-	-
Nuclear	-	-	-	-	-	-	-	-
Hydro	-	-	-	-	-	-	-	-
<i>of which: pumped storage</i>	-	-	-	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-	-
Solar PV	-	-	-	-	-	-	-	-
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	-	-	-	-	-	-	-
Other (e.g. fuel cells)	-	-	-	-	-	-	-	-
Combustible fuels	0.02	0.03	0.03	0.03	-	-	-	-

1. Sum of available capacity figures

2. Breakdown of electrical capacity by type of fuel are shown in the individual country chapters.

Iceland**Table 8. Capacity factors (%)**

	1974	1990	2000	2005	2010	2012	2013	2014
Total plants¹	54.8	54.5	63.4	64.5	75.5	75.4	74.8	74.8
Nuclear	-	-	-	-	-	-	-	-
Hydro	68.8	63.5	68.2	68.9	76.3	75.0	74.0	74.1
<i>of which: pumped storage</i>	-	-	-	-	-	-	-	-
Geothermal	30.4	74.5	87.8	81.6	88.6	89.4	90.0	89.9
Solar PV	-	-	-	-	-	-	-	-
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	-	-	-	-	-	17.1	30.4
Other (e.g. fuel cells)	-	-	-	-	-	-	-	-
Combustible fuels	7.5	0.5	0.4	0.7	0.2	0.3	0.5 e	0.3
Of which autoproducers	3.2	1.8	1.8	1.8	-	-	-	-
Nuclear	-	-	-	-	-	-	-	-
Hydro	15.2	11.4	11.4	11.4	-	-	-	-
<i>of which: pumped storage</i>	-	-	-	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-	-
Solar PV	-	-	-	-	-	-	-	-
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	-	-	-	-	-	-	-
Other (e.g. fuel cells)	-	-	-	-	-	-	-	-
Combustible fuels	0.8	0.4	0.4	0.4	-	-	-	-

1. The capacity factor is defined as: the annual gross electricity generation (in GWh) divided by the net capacity (in GW) times 365 (days/year) times 24 (hours/day)

Iceland

Table 10a. Share of electricity in total final consumption (%)

	1974	1990	2000	2005	2010	2012	2013	2014
Share of total final consumption	17.6	24.8	33.6	34.9	53.4	53.9	53.2	52.9
Industry	45.6	57.8	67.2	68.0	89.3	89.9	89.3	88.2
Iron and steel	-	46.9	49.0	46.5	48.7	47.8	45.8	43.2
Chem. and petrochemical	-	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Non-ferrous metals	100.0	96.3	97.8	98.1	99.9	99.9	99.9	99.9
Non-metallic minerals	-	24.5	29.2	29.2	22.8	100.0	67.0	100.0
Transport equipment	-	-	100.0	100.0	100.0	100.0	100.0	100.0
Machinery	-	-	100.0	100.0	100.0	100.0	100.0	100.0
Mining and quarrying	-	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Food and tobacco	-	24.0	41.1	46.6	89.9	91.3	92.1	90.0
Paper, pulp and printing	-	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Wood and wood products	-	-	100.0	100.0	100.0	100.0	100.0	100.0
Construction	-	5.5	1.9	11.9	5.9	9.3	9.7	6.3
Textile and leather	-	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Non specified/other	18.5	22.2	13.6	17.6	6.3	7.1	15.9	18.7
Transport	-	-	-	-	-	0.0	0.1	0.1
Rail Transport	-	-	-	-	-	-	-	-
Pipeline Transport	-	-	-	-	-	-	-	-
Road	-	-	-	-	-	-	-	-
Transport Non Specified	-	-	-	-	-	100.0	100.0	100.0
Other sectors	8.7	15.7	17.0	18.2	20.4	19.1	18.1	18.2
Commercial & publ. serv.	44.8	20.5	25.7	27.8	28.0	26.4	25.7	25.4
Residential	8.1	18.6	17.9	18.9	22.5	19.5	18.6	19.3
Agriculture	-	51.2	49.6	48.8	50.2	49.5	47.4	47.1
Fishing	-	0.4	0.3	1.2	1.6	1.8	1.7	1.7
Sector non specified	79.0	52.5	47.2	42.0	-	-	-	-

Table 10b. Share of heat in total final consumption (%)

	1974	1990	2000	2005	2010	2012	2013	2014
Share of total final consumption	-	24.7	21.9	21.8	18.1	19.6	19.7	19.6
Industry	-	-	-	-	-	-	-	-
Iron and steel	-	-	-	-	-	-	-	-
Chem. and petrochemical	-	-	-	-	-	-	-	-
Non-ferrous metals	-	-	-	-	-	-	-	-
Non-metallic minerals	-	-	-	-	-	-	-	-
Transport equipment	-	-	-	-	-	-	-	-
Machinery	-	-	-	-	-	-	-	-
Mining and quarrying	-	-	-	-	-	-	-	-
Food and tobacco	-	-	-	-	-	-	-	-
Paper, pulp and printing	-	-	-	-	-	-	-	-
Wood and wood products	-	-	-	-	-	-	-	-
Construction	-	-	-	-	-	-	-	-
Textile and leather	-	-	-	-	-	-	-	-
Non specified/other	-	-	-	-	-	-	-	-
Transport	-	-	-	-	-	-	-	-
Other sectors	-	45.5	45.7	46.5	49.2	52.7	52.6	52.9
Commercial & publ. serv.	-	67.4 e	62.5 e	60.6 e	59.6 e	61.8 e	63.0 e	63.3
Residential	-	67.6 e	71.0 e	71.4 e	69.0 e	72.7 e	73.8 e	76.5
Agriculture	-	18.6 e	19.0 e	22.1 e	23.2 e	24.9 e	25.3 e	24.4
Fishing	-	2.8 e	2.9 e	3.0 e	3.9 e	4.5 e	4.2 e	4.1
Sector non specified	-	47.5 e	52.8 e	58.0 e	100.0 e	100.0 e	100.0 e	100.0

Source: IEA/OECD World Energy Balances.

Iceland**Table 10a. Share of electricity in total final consumption (%)**

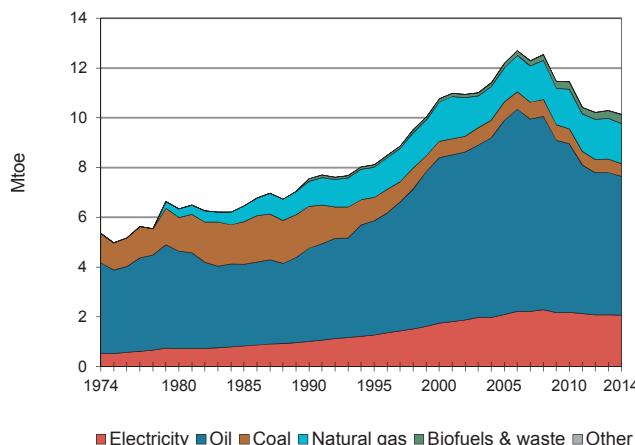
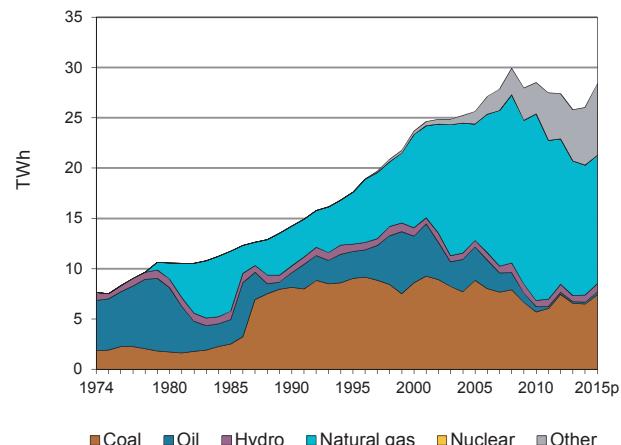
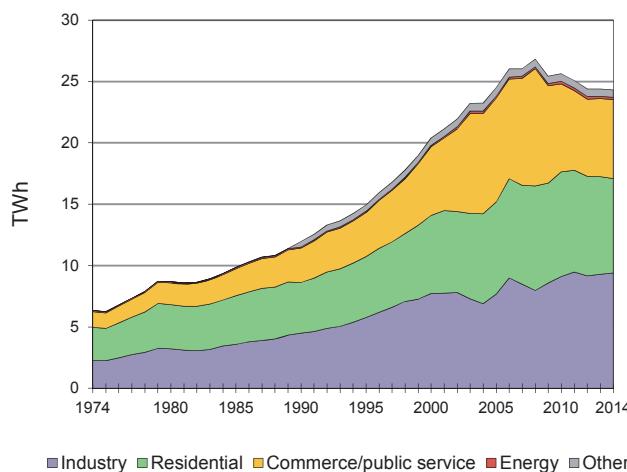
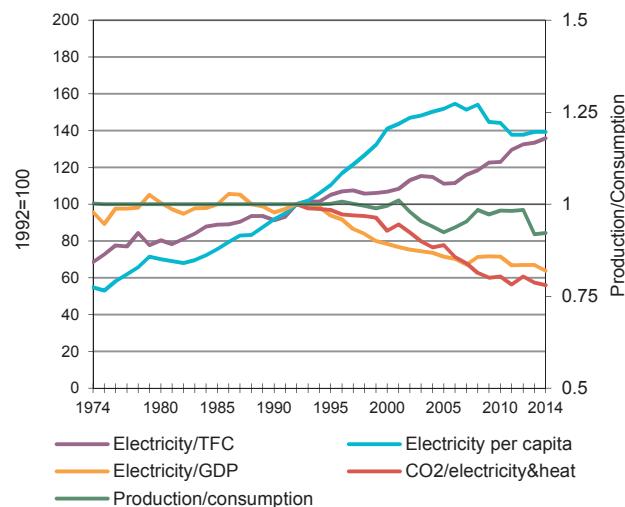
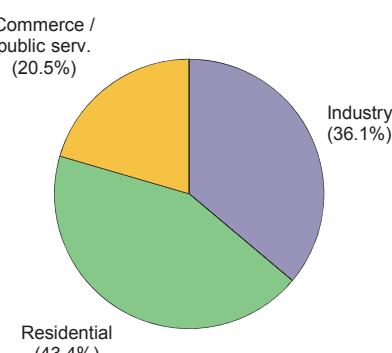
	1974	1990	2000	2005	2010	2012	2013	2014
Share of total final consumption	17.6	24.8	33.6	34.9	53.4	53.9	53.2	52.9
Industry	45.6	57.8	67.2	68.0	89.3	89.9	89.3	88.2
Iron and steel	-	46.9	49.0	46.5	48.7	47.8	45.8	43.2
Chem. and petrochemical	-	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Non-ferrous metals	100.0	96.3	97.8	98.1	99.9	99.9	99.9	99.9
Non-metallic minerals	-	24.5	29.2	29.2	22.8	100.0	67.0	100.0
Transport equipment	-	-	100.0	100.0	100.0	100.0	100.0	100.0
Machinery	-	-	100.0	100.0	100.0	100.0	100.0	100.0
Mining and quarrying	-	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Food and tobacco	-	24.0	41.1	46.6	89.9	91.3	92.1	90.0
Paper, pulp and printing	-	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Wood and wood products	-	-	100.0	100.0	100.0	100.0	100.0	100.0
Construction	-	5.5	1.9	11.9	5.9	9.3	9.7	6.3
Textile and leather	-	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Non specified/other	18.5	22.2	13.6	17.6	6.3	7.1	15.9	18.7
Transport	-	-	-	-	-	0.0	0.1	0.1
Rail Transport	-	-	-	-	-	-	-	-
Pipeline Transport	-	-	-	-	-	-	-	-
Road	-	-	-	-	-	-	-	-
Transport Non Specified	-	-	-	-	-	100.0	100.0	100.0
Other sectors	8.7	15.7	17.0	18.2	20.4	19.1	18.1	18.2
Commercial & publ. serv.	44.8	20.5	25.7	27.8	28.0	26.4	25.7	25.4
Residential	8.1	18.6	17.9	18.9	22.5	19.5	18.6	19.3
Agriculture	-	51.2	49.6	48.8	50.2	49.5	47.4	47.1
Fishing	-	0.4	0.3	1.2	1.6	1.8	1.7	1.7
Sector non specified	79.0	52.5	47.2	42.0	-	-	-	-

Table 10b. Share of heat in total final consumption (%)

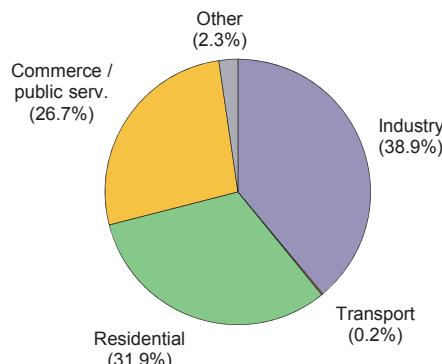
	1974	1990	2000	2005	2010	2012	2013	2014
Share of total final consumption	-	24.7	21.9	21.8	18.1	19.6	19.7	19.6
Industry	-	-	-	-	-	-	-	-
Iron and steel	-	-	-	-	-	-	-	-
Chem. and petrochemical	-	-	-	-	-	-	-	-
Non-ferrous metals	-	-	-	-	-	-	-	-
Non-metallic minerals	-	-	-	-	-	-	-	-
Transport equipment	-	-	-	-	-	-	-	-
Machinery	-	-	-	-	-	-	-	-
Mining and quarrying	-	-	-	-	-	-	-	-
Food and tobacco	-	-	-	-	-	-	-	-
Paper, pulp and printing	-	-	-	-	-	-	-	-
Wood and wood products	-	-	-	-	-	-	-	-
Construction	-	-	-	-	-	-	-	-
Textile and leather	-	-	-	-	-	-	-	-
Non specified/other	-	-	-	-	-	-	-	-
Transport	-	-	-	-	-	-	-	-
Other sectors	-	45.5	45.7	46.5	49.2	52.7	52.6	52.9
Commercial & publ. serv.	-	67.4 e	62.5 e	60.6 e	59.6 e	61.8 e	63.0 e	63.3
Residential	-	67.6 e	71.0 e	71.4 e	69.0 e	72.7 e	73.8 e	76.5
Agriculture	-	18.6 e	19.0 e	22.1 e	23.2 e	24.9 e	25.3 e	24.4
Fishing	-	2.8 e	2.9 e	3.0 e	3.9 e	4.5 e	4.2 e	4.1
Sector non specified	-	47.5 e	52.8 e	58.0 e	100.0 e	100.0 e	100.0 e	100.0

Source: IEA/OECD Energy Balances.

Ireland

Figure 1. Total final consumption by fuel**Figure 2. Electricity generation by fuel****Figure 3. Electricity consumption by sector****Figure 4. Electricity indicators****Figure 5. Total final electricity consumption by sector****1974**

6.3 TWh

2014

24.1 TWh

Ireland**Table 1. Energy consumption, GDP and population**

	1974	1990	2000	2010	2013	2014	2015p	74-00	00-15
TPES (Mtoe)	7.12	9.91	13.80	14.37	13.02	12.77	13.26	2.6	-0.3
GDP (billion 2005 USD)	42.88	80.80	163.71	220.06	229.34	241.27	260.11	5.3	3.1
TPES/GDP ¹	0.17	0.12	0.08	0.07	0.06	0.05	0.05	-2.6	-3.3
Population (millions)	3.12	3.51	3.80	4.56	4.60	4.62	4.65	0.8	1.3
TPES/population ²	2.28	2.83	3.63	3.15	2.83	2.77	2.85	1.8	-1.6
TPES/GDP (2005 = 100)	241	178	122	95	82	77	74	-2.6	-3.3
Ele.TFC/GDP(2005=100) ³	127	128	108	100	92	87	..	-0.6	..
Ele.TFC/population ⁴	2002	3386	5335	5577	5261	5232	..	3.8	..
Elec. generated (TWh) ⁵	7.63	14.23	23.67	28.51	25.80	26.04	28.38	4.5	1.2

Source: IEA/OECD *World Energy Balances* and OECD *Main Economic Indicators*.**Table 2. Total primary energy supply (TPES) by source**

	1974	1990	2000	2010	2013	2014	2015p	74-00	00-15
TPES (Mtoe)	7.12	9.91	13.80	14.37	13.02	12.77	13.26	2.6	-0.3
Coal	1.83	3.40	2.60	1.93	2.02	2.01	2.16	1.4	-1.2
Oil	5.22	4.47	7.52	7.04	6.07	5.83	6.15	1.4	-1.3
Natural gas	-	1.87	3.43	4.69	3.83	3.72	3.75	-	0.6
Biofuels & waste	-	0.11	0.14	0.37	0.45	0.51	0.49	-	8.7
Nuclear	-	-	-	-	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-	-	-
Solar, wind, tide ⁶	-	0.00	0.02	0.25	0.40	0.45	0.58	-	24.7
Hydro	0.07	0.06	0.07	0.05	0.05	0.06	0.07	0.3	-0.3
Net electricity imports ⁷	-0.00	-	0.01	0.04	0.19	0.18	0.06	-	13.7
Heat	-	-	-	-	-	-	-	-	-

Source: IEA/OECD *World Energy Balances*.

1. In units of toe/2005 thousand US dollars.

2. In units of toe/per capita.

3. Ele.TFC = electricity total final consumption.

4. In units of kWh/per capita.

5. Electricity generated = gross production - amount of electricity produced in pumped storage plants.

6. Includes wave, ocean and other (e.g. fuel cells).

7. Net Imports = total imports - total exports

Ireland

Table 3a. Summary electricity production and consumption¹ (TWh)

	1974	1990	2000	2005	2010	2013	2014	2015e
Gross production	7.86	14.52	23.98	25.97	28.69	26.14	26.31	28.66
- Own use by power plant	0.39	0.87	1.29	1.18	1.24	1.03	1.01	-
Net production	7.47	13.65	22.68	24.79	27.44	25.12	25.31	-
- Used for heat pumps	-	-	-	-	-	-	-	-
- Used for electric boilers	-	-	-	-	-	-	-	-
- Used for pumped storage	0.31	0.41	0.45	0.53	0.29	0.59	0.50	0.53
+ Imports	0.06	-	0.17	2.05	0.76	2.63	2.85	1.75
- Exports	0.07	-	0.07	0.00	0.29	0.38	0.70	1.08
Electrical energy supplied	7.15	13.24	22.33	26.31	27.62	26.77	26.96	..
- Transmission & distr. losses	0.80	1.28	2.02	2.05	2.12	2.03	2.04	..
- Statistical difference	-	-	-0.09	-0.26	-0.13	0.34	0.60	..
Total consumption	6.35	11.97	20.40	24.52	25.63	24.41	24.31	..
Energy industry consumption²	0.10	0.10	0.11	0.16	0.21	0.20	0.18	..
Coal Mines	0.05	-	-	-	-	-	-	..
Oil + Gas Extraction	-	-	-	-	-	-	-	..
Patent Fuel Plants	-	-	-	-	-	-	-	..
Coke Ovens	-	-	-	-	-	-	-	..
BKB plants	-	0.07	0.05	0.07	0.09	0.09	0.08	..
Gas Works	0.01	-	-	-	-	-	-	..
Blast Furnaces	-	-	-	-	-	-	-	..
Oil Refineries	0.03	0.03	0.05	0.09	0.11	0.10	0.09	..
Nuclear Industry	-	-	-	-	-	-	-	..
Coal Liquefaction Plants	-	-	-	-	-	-	-	..
LNG/Regasification Plants	-	-	-	-	-	-	-	..
Energy - Non Specified	-	0.00	0.01	0.01	0.01	0.02	0.01	..
Final consumption	6.25	11.87	20.29	24.35	25.42	24.20	24.14	..
Industry	2.26	4.49	7.73	7.67	9.10	9.29	9.40	..
Iron and steel	0.09	0.24	0.33	0.01	-	-	-	..
Chem. and petrochemical	0.33	0.41	1.34	1.36	1.65	1.69	1.71	..
Non-ferrous metals	-	0.65	0.53	0.45	0.73	0.74	0.75	..
Non-metallic minerals	0.31	0.36	0.59	0.57	0.58	0.59	0.60	..
Transport equipment	0.03	0.05	0.12	0.12	0.19	0.20	0.20	..
Machinery	0.16	0.24	1.05	1.40	1.36	1.38	1.40	..
Mining and quarrying	0.17	0.10	0.46	0.46	0.65	0.67	0.67	..
Food and tobacco	0.52	1.23	1.82	1.86	1.94	1.98	2.00	..
Paper, pulp and printing	0.21	0.11	0.32	0.32	0.21	0.22	0.22	..
Wood and wood products	0.06	0.11	0.34	0.34	0.39	0.40	0.40	..
Construction	0.03	0.02	0.06	0.07	0.07	0.07	0.07	..
Textile and leather	0.20	0.22	0.20	0.18	0.12	0.12	0.12	..
Non specified/other	0.16	0.75	0.58	0.54	1.21	1.24	1.25	..
Transport	-	0.02	0.03	0.06	0.05	0.04	0.04	..
Rail Transport	-	0.02	0.03	0.06	0.05	0.04	0.04	..
Pipeline Transport	-	-	-	-	-	-	-	..
Road	-	-	-	-	-	-	-	..
Transport Non Specified	-	-	-	-	-	-	-	..
Commercial & publ. serv.	2.71	4.14	6.38	7.51	8.55	7.95	7.70	..
Residential	1.28	2.80	5.59	8.47	7.17	6.37	6.44	..
Agriculture	-	0.43	0.57	0.64	0.56	0.56	0.56	..
Fishing	-	-	-	-	-	-	-	..
Sector non specified	-	-	-	-	-	-	-	..

1. Electricity generation from main activity producer power plants and autoproducers .

2. Energy industry consumption = electricity consumed by transformation industries for heating, traction and lighting purposes;

excludes own use by power plant and electricity used for heat pumps, electric boilers and pumped storage.

Ireland**Table 4a. Gross electricity production by source (TWh)**

	1974	1990	2000	2010	2013	2014	2015e	74-00	00-15
Total plants gross production¹	7.86	14.52	23.98	28.69	26.14	26.31	28.66	4.4	1.2
Nuclear	-	-	-	-	-	-	-	-	-
Hydro	1.01	0.98	1.15	0.78	0.94	0.99	1.10	0.5	-0.3
- Of which pumped storage	0.22	0.29	0.30	0.18	0.35	0.28	0.29	1.2	-0.4
Geothermal	-	-	-	-	-	-	-	-	-
Solar	-	-	-	-	0.00	0.00	0.00	-	-
Wind	-	-	0.24	2.82	4.54	5.14	6.57	-	24.5
Combustible fuels	6.85	13.53	22.58	25.09	20.66	20.19	21.00	4.7	-0.5
- Coal	..	8.16	8.59	5.69	6.56	6.48	7.42	..	-1.0
- Oil	..	1.43 e	4.64 e	0.54	0.16	0.19	0.27	-	-17.2
- Natural gas	..	3.94	9.26	18.54	13.40	12.91	12.77	..	2.2
- Biofuels & waste	..	-	0.10	0.32	0.54	0.60	0.54	..	12.3
Other ²	-	-	-	-	-	-	-	-	-
Of which autoproducers	0.18	0.21	0.58	1.95	2.06	2.07	..	4.6	..
Nuclear	-	-	-	-	-	-	..	-	..
Hydro	-	-	-	-	-	-	..	-	..
- Of which pumped storage	-	-	-	-	-	-	..	-	..
Geothermal	-	-	-	-	-	-	..	-	..
Solar	-	-	-	-	0.00	0.00	..	-	..
Wind	-	-	-	-	-	-	..	-	..
Combustible fuels	0.18	0.21	0.58	1.95	2.06	2.07	..	4.6	..
- Coal	..	0.08	0.05	0.04	0.03	0.03
- Oil	..	0.02	0.05	0.05	0.03	0.03
- Natural gas	..	0.11	0.48	1.82	1.95	1.97
- Biofuels & waste	..	-	-	0.04	0.04	0.05
Other ²	-	-	-	-	-	-	..	-	..

Table 4b. Gross heat production by source (PJ)

	1974	1990	2000	2010	2013	2014	2015e	74-00	00-15
Total plants heat generation³	-	-	-	-	-	-	-	-	-
Nuclear	-	-	-	-	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-	-	-
Combustible fuels	-	-	-	-	-	-	-	-	-
- Coal	..	-	-	-	-	-	-
- Oil	..	-	-	-	-	-	-
- Natural gas	..	-	-	-	-	-	-
- Biofuels & waste	..	-	-	-	-	-	-
Chemical processes	-	-	-	-	-	-	-	-	-
Heat pumps	-	-	-	-	-	-	-	-	-
Electric boilers	-	-	-	-	-	-	-	-	-
Other sources	-	-	-	-	-	-	-	-	-
Of which Autoproducers	-	-	-	-	-	-	..	-	..
Nuclear	-	-	-	-	-	-	..	-	..
Geothermal	-	-	-	-	-	-	..	-	..
Combustible fuels	-	-	-	-	-	-	..	-	..
- Coal	..	-	-	-	-	-
- Oil	..	-	-	-	-	-
- Natural gas	..	-	-	-	-	-
- Biofuels & waste	..	-	-	-	-	-
Chemical processes	-	-	-	-	-	-	..	-	..
Heat pumps	-	-	-	-	-	-	..	-	..
Electric boilers	-	-	-	-	-	-	..	-	..
Other sources	-	-	-	-	-	-	..	-	..

1. Electricity generated from main activity producer power plants and autoproducers.

2. Includes wave, ocean and other sources (e.g. fuel cells, electricity from chemical heat).

3. Total heat generation = gross production of heat from main activity producer + heat sold in autoproducers.

Ireland**Table 5. Net electricity production by autoproducers (GWh)**

	1974	1990	2000	2010	2012	2013	2014	74-00	00-14
Total	165	202	547	1894	2059	1997	2010	4.7	9.7
Total energy	10	14	44	78	64	58	50	5.9	0.9
Coal mines	-	-	-	-	-	-	-	-	-
Oil and gas extraction	-	-	-	-	-	-	-	-	-
Patent fuel plants	-	-	-	-	-	-	-	-	-
Coke ovens	-	-	-	34	26	31	24	-	-
Gas works	-	-	-	-	-	-	-	-	-
BKB	-	-	44	44	38	27	26	-	-3.7
Oil refineries	-	-	-	-	-	-	-	-	-
Energy non specified/other	-	-	-	-	-	-	-	-	-
Total industry	153	185	399	1692	1846	1802	1826	3.8	11.5
Iron and steel	-	-	-	-	-	-	-	-	-
Chemical and petrochemical	20	23	67	82	130	133	147	4.8	5.8
Non-ferrous metals	-	-	-	1237	1283	1250	1254	-	-
Non-metallic minerals	-	-	-	-	-	-	-	-	-
Transport equipment	-	-	-	-	-	-	-	-	-
Machinery	-	-	-	-	-	-	-	-	-
Mining and quarrying	34	56	-	-	-	-	-	-	-
Food and tobacco	62	106	332	343	387	381	389	6.7	1.1
Pulp and printing	30	-	-	-	-	-	-	-	-
Wood and wood products	-	-	-	18	17	11	11	-	-
Construction	-	-	-	-	-	-	-	-	-
Textile and leather	7	-	-	-	-	-	-	-	-
Non specified/other industries	-	-	-	12	29	27	25	-	-
Total transport	-	-	8	-	-	-	-	-	-
Rail	-	-	-	-	-	-	-	-	-
Pipeline	-	-	-	-	-	-	-	-	-
Transport non specified	-	-	8	-	-	-	-	-	-
Other	2	3	96	124	149	137	134	16.1	2.4
Commerce and pub. services	-	-	87	124	149	137	134	-	3.1
Residential	-	-	-	-	-	-	-	-	-
Agriculture	-	-	-	-	-	-	-	-	-
Fishing	-	-	-	-	-	-	-	-	-
Sector non specified	2	3	9	-	-	-	-	6.0	-

Notes: Data reported in this table prior to 1990 may refer to combustible fuels only.

Ireland

Table 6a. Electricity production from combustible fuels in electricity plants¹

	1990	2000	2005	2010	2012	2013	2014	90-00	00-14
Steam coal									
Fuel input (1000 t)	1959	2341	2325	1469	1970	1648	1588	1.8	-2.7
Fuel input (TJ)	51982	59740	59308	36321	48572	40625	39442	1.4	-2.9
Electricity production (GWh)	5896	6793	6352	3557	5053	4306	4016	1.4	-3.7
Lignite									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
Coal manufactured gases²									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
Other coal products³									
Fuel input (1000 t)	3114	2571	2590	2632	3059	2671	2695	-1.9	0.3
Fuel input (TJ)	24782	20018	20488	20144	23027	20830	22686	-2.1	0.9
Electricity production (GWh)	2185	1742	2423	2102	2378	2224	2442	-2.2	2.4
Oil and petroleum products									
Fuel input (1000 t)	350	1041	799	132	48	39	56	11.5	-18.8
Fuel input (TJ)	14469	42976	32882	5431	1953	1582	2299	11.5	-18.9
Electricity production (GWh)	1422 e	4587 e	3297	494	151	125	157	12.4	-21.4
Natural gas²									
Fuel input (TJ)	38000	80911	90925	128515	92596	84957	79595	7.9	-0.1
Electricity production (GWh)	3834	8787	11075	16720	12429	11447	10948	8.6	1.6
Solid biofuels									
Fuel input (TJ)	-	-	-	853	1518	1969	2304	-	-
Electricity production (GWh)	-	-	-	89	157	210	248	-	-
Industrial waste									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
Municipal waste									
Fuel input (TJ)	-	-	-	-	1799	2044	2096	-	-
Electricity production (GWh)	-	-	-	-	107	130	133	-	-
Biogases and liquid biofuels									
Fuel input (TJ)	-	988	1044	1849	1800	1539	1636	-	3.7
Electricity production (GWh)	-	95	106	185	175	158	169	-	4.2
Total combustible fuels									
Electricity production (GWh)	13337 e	22004 e	23253	23147	20450	18600	18113	5.1	-1.4

1. Excludes CHP plants.

2. Coal manufactured gases and natural gas are expressed on a gross calorific value basis.

3. Includes Coking coal as well as peat and peat products, patent fuels, BKB and shale oil

Ireland**Table 6b. Electricity and heat produced for sale from combustible fuels
in combined heat and power plants (CHP plants)**

	1990	2000	2005	2010	2012	2013	2014	90-00	00-14
Steam coal									
Fuel input (1000 t)	6	6	10	-	-	-	-	-	-
Fuel input (TJ)	161	173	264	-	-	-	-	0.7	-
Electricity production (GWh)	22	24	37	-	-	-	-	0.9	-
CHP Heat production (TJ)	-	-	-	-	-	-	-	-	-
Lignite									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
CHP Heat production (TJ)	-	-	-	-	-	-	-	-	-
Coal manufactured gases¹									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
CHP Heat production (TJ)	-	-	-	-	-	-	-	-	-
Other coal products²									
Fuel input (1000 t)	62	69	38	49	39	46	36	1.1	-4.5
Fuel input (TJ)	483	537	297	375	291	356	305	1.1	-4.0
Electricity production (GWh)	60	28	27	35	27	32	26	-7.3	-0.5
CHP Heat production (TJ)	-	-	-	-	-	-	-	-	-
Petroleum products									
Fuel input (1000 t)	2	11	7	6	7	5	4	18.6	-7.0
Fuel input (TJ)	60	496	342	325	387	238	224	23.5	-5.5
Electricity production (GWh)	6	51	43	48	43	31	30	23.9	-3.7
CHP Heat production (TJ)	-	-	-	-	-	-	-	-	-
Natural gas¹									
Fuel input (TJ)	1130	3969	3963	11915	12766	12446	11999	13.4	8.2
Electricity production (GWh)	107	476	499	1823	2010	1949	1966	16.1	10.7
CHP Heat production (TJ)	-	-	-	-	-	-	-	-	-
Solid Biofuels									
Fuel input (TJ)	-	-	102	167	200	172	133	-	-
Electricity production (GWh)	-	-	8	19	20	14	14	-	-
CHP Heat production (TJ)	-	-	-	-	-	-	-	-	-
Industrial waste									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
CHP Heat production (TJ)	-	-	-	-	-	-	-	-	-
Municipal waste									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
CHP Heat production (TJ)	-	-	-	-	-	-	-	-	-
Biogases and liquid biofuels									
Fuel input (TJ)	-	-	101	246	174	182	210	-	-
Electricity production (GWh)	-	-	16	22	25	29	36	-	-
CHP Heat production (TJ)	-	-	-	-	-	-	-	-	-
Total combustible fuels									
Electricity production (GWh)	195	579	630	1947	2125	2055	2072	11.5	9.5
CHP Heat production (TJ)	-	-	-	-	-	-	-	-	-

1. Coal manufactured gases and natural gas are expressed on a gross calorific value basis.

2. Includes Coking coal as well as peat and peat products, patent fuels, BKB and shale oil

Ireland

Table 7. Net maximum electricity generating capacity on 31 December (GW)

	1974	1990	2000	2005	2010	2012	2013	2014
Total capacity¹	2.09	3.81	4.71	6.18	8.31	8.59	8.80	9.08
Nuclear	-	-	-	-	-	-	-	-
Hydro	0.51	0.51	0.53	0.53	0.53	0.53	0.53	0.53
<i>of which: pumped storage</i>	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29
Geothermal	-	-	-	-	-	-	-	-
Solar PV	-	-	-	-	-	-	-	-
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	-	0.12	0.52	1.37	1.76	1.94	2.21
Other (e.g. fuel cells)	-	-	-	-	-	-	-	-
Combustible fuels	1.58	3.29	4.06	5.13	6.41	6.30	6.33	6.34
<i>of which⁽²⁾:</i>								
<i>Single-fired:</i>								
Coal and Coal products	0.41	1.31	1.26	0.36	0.35	0.35	0.35	0.35
Liquid fuels	1.09	0.59	0.84	1.03	1.14	1.15	1.15	1.15
Natural gas	-	0.29	0.35	1.12	1.53	1.55	1.55	1.55
Biofuels & waste	-	-	0.02	0.02	0.04	0.06	0.07	0.08
<i>Multi-fired:</i>								
Solid / liquid	0.09	-	-	0.86	0.85	0.85	0.86	0.86
Solid / natural gas	-	-	-	-	-	-	-	-
Liquid / natural gas	-	1.10	1.60	1.72	2.50	2.34	2.35	2.36
Solid / liquid / gas	-	-	-	0.01	-	-	-	-
<i>Type of generation</i>								
Steam	-	2.61	2.86	2.77	2.27	2.28	2.29	2.29
Internal combustion	0.06	0.07	0.05	0.06	0.10	0.12	0.14	0.15
Gas turbine	-	0.36	0.42	0.80	1.79	1.80	1.81	1.81
Combined cycle	-	0.26	0.74	1.48	2.24	2.08	2.08	2.09
Other	-	-	-	0.02	0.01	0.02	-	-
<i>Peak load</i>	..	2.60	3.84	4.83	5.09	4.59	4.54	4.54
Of which Autoproducers	0.06	0.07	0.13	0.15	0.31	0.33	0.34	0.34
Nuclear	-	-	-	-	-	-	-	-
Hydro	-	-	-	-	-	-	-	-
<i>of which: pumped storage</i>	-	-	-	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-	-
Solar PV	-	-	-	-	-	-	-	-
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	-	-	-	-	-	-	-
Other (e.g. fuel cells)	-	-	-	-	-	-	-	-
Combustible fuels	0.06	0.07	0.13	0.15	0.31	0.33	0.34	0.34

1. Sum of available capacity figures

2. Breakdown of electrical capacity by type of fuel are shown in the individual country chapters.

Ireland**Table 8. Capacity factors (%)**

	1974	1990	2000	2005	2010	2012	2013	2014
Total plants¹	42.9	43.5	58.1	48.0	39.4	36.7	33.9	33.1
Nuclear	-	-	-	-	-	-	-	-
Hydro	22.5	21.9	24.9	21.2	16.8	21.9	20.4	21.3
<i>of which: pumped storage</i>	8.8	11.3	11.9	13.5	6.9	8.3	13.5	10.9
Geothermal	-	-	-	-	-	-	-	-
Solar PV	-	-	-	-	-	11.4	11.4	11.4
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	-	23.4	24.6	23.4	26.0	26.7	26.5
Other (e.g. fuel cells)	-	-	-	-	-	-	-	-
Combustible fuels	49.5	46.9	63.4	53.1	44.7	40.9	37.3	36.4
Of which autoproducers	34.3	35.1	51.6	49.6	71.7	72.9	69.4	69.0
Nuclear	-	-	-	-	-	-	-	-
Hydro	-	-	-	-	-	-	-	-
<i>of which: pumped storage</i>	-	-	-	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-	-
Solar PV	-	-	-	-	-	11.4	11.4	11.4
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	-	-	-	-	-	-	-
Other (e.g. fuel cells)	-	-	-	-	-	-	-	-
Combustible fuels	34.3	35.1	51.6	49.6	71.9	73.1	69.6	69.2

1. The capacity factor is defined as: the annual gross electricity generation (in GWh) divided by the net capacity (in GW) times 365 (days/year) times 24 (hours/day)

Ireland**Table 9a. Electricity imports by origin (GWh)**

	1974	1990	2000	2005	2010	2012	2013	2014
Total imports	60	-	169	2045	760	784	2625	2853
Total from OECD	60 e	-	169	2045	760	784	2625	2853
Austria	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-
Canada	-	-	-	-	-	-	-	-
Czech Republic	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-
Greece	-	-	-	-	-	-	-	-
Hungary	-	-	-	-	-	-	-	-
Ireland	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-
Luxembourg	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-
Poland	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-
Slovak Republic	-	-	-	-	-	-	-	-
Slovenia	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-
Switzerland	-	-	-	-	-	-	-	-
Turkey	-	-	-	-	-	-	-	-
United Kingdom	60 e	-	169	2045	760	784	2625	2853
United States	-	-	-	-	-	-	-	-
Total from non-OECD	-	-	-	-	-	-	-	-
Albania	-	-	-	-	-	-	-	-
Azerbaijan	-	-	-	-	-	-	-	-
Belarus	-	-	-	-	-	-	-	-
Bulgaria	-	-	-	-	-	-	-	-
Croatia	-	-	-	-	-	-	-	-
F.Y.R. of Macedonia	-	-	-	-	-	-	-	-
Georgia	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-
Romania	-	-	-	-	-	-	-	-
Russian Federation	-	-	-	-	-	-	-	-
Serbia	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-
Turkmenistan	-	-	-	-	-	-	-	-
Ukraine	-	-	-	-	-	-	-	-
Non-specified/others	-	-	-	-	-	-	-	-

Ireland**Table 9b. Electricity exports by destination (GWh)**

	1974	1990	2000	2005	2010	2012	2013	2014
Total exports	71	-	71	1	290	370	383	704
Total to OECD	71 e	-	71	1	290	370	383	704
Austria	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-
Canada	-	-	-	-	-	-	-	-
Czech Republic	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-
Greece	-	-	-	-	-	-	-	-
Hungary	-	-	-	-	-	-	-	-
Ireland	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-
Luxembourg	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-
Poland	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-
Slovak Republic	-	-	-	-	-	-	-	-
Slovenia	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-
Switzerland	-	-	-	-	-	-	-	-
Turkey	-	-	-	-	-	-	-	-
United Kingdom	71 e	-	71	1	290	370	383	704
United States	-	-	-	-	-	-	-	-
Total to non-OECD	-	-	-	-	-	-	-	-
Albania	-	-	-	-	-	-	-	-
Azerbaijan	-	-	-	-	-	-	-	-
Belarus	-	-	-	-	-	-	-	-
Bulgaria	-	-	-	-	-	-	-	-
Croatia	-	-	-	-	-	-	-	-
F.Y.R. of Macedonia	-	-	-	-	-	-	-	-
Georgia	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-
Romania	-	-	-	-	-	-	-	-
Russian Federation	-	-	-	-	-	-	-	-
Serbia	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-
Turkmenistan	-	-	-	-	-	-	-	-
Ukraine	-	-	-	-	-	-	-	-
Non-specified/others	-	-	-	-	-	-	-	-

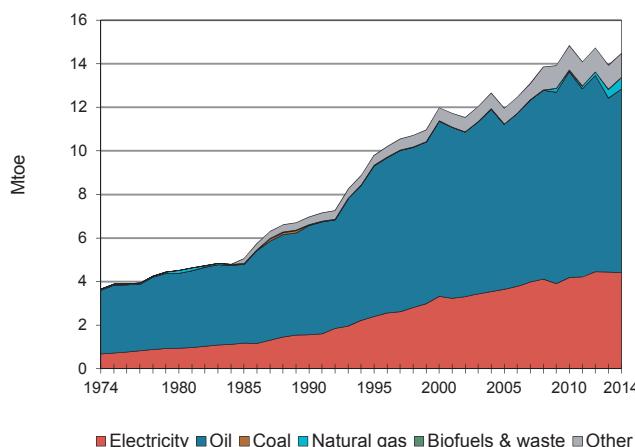
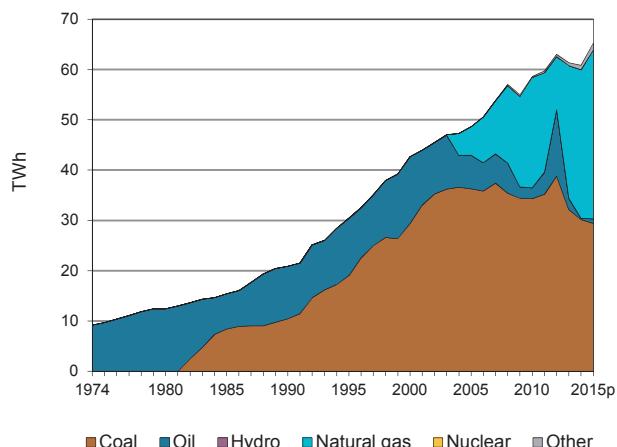
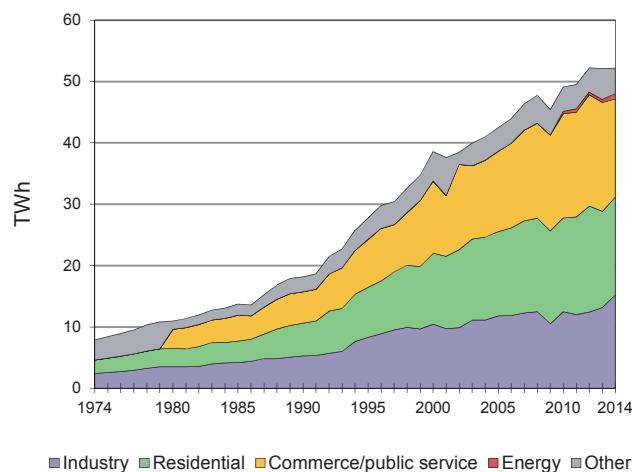
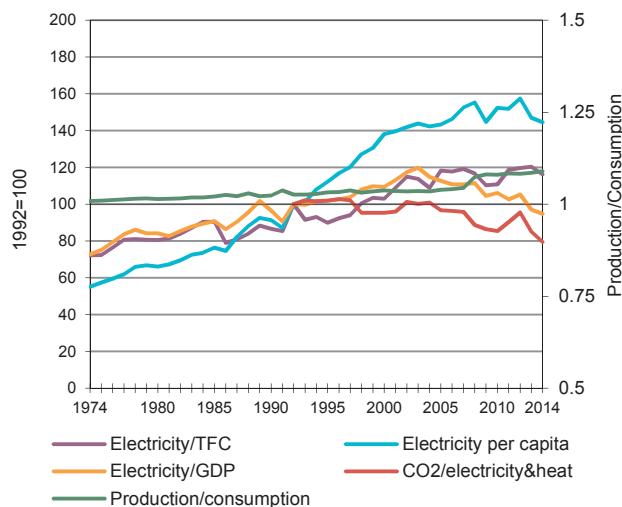
Ireland**Table 10a. Share of electricity in total final consumption (%)**

	1974	1990	2000	2005	2010	2012	2013	2014
Share of total final consumption	10.0	13.5	16.2	17.2	19.1	20.3	20.2	20.5
Industry	10.6	22.3	26.7	25.7	36.6	36.2	36.7	36.2
Iron and steel	45.2	27.2	61.3	100.0	-	-	-	-
Chem. and petrochemical	100.0	18.5	33.3	31.3	50.1	63.0	63.4	63.3
Non-ferrous metals	-	20.0	11.2	10.1	14.8	12.8	13.2	13.6
Non-metallic minerals	100.0	10.5	13.5	9.3	17.4	15.7	16.2	13.9
Transport equipment	100.0	26.4	34.8	37.6	78.5	78.1	78.3	78.4
Machinery	100.0	30.7	47.3	56.7	49.9	48.9	49.1	49.1
Mining and quarrying	100.0	22.7	30.2	42.7	49.3	51.6	53.4	54.7
Food and tobacco	100.0	24.9	26.8	27.1	40.0	41.1	40.6	40.9
Paper, pulp and printing	100.0	51.4	42.9	62.8	71.2	78.9	79.1	79.2
Wood and wood products	100.0	13.1	21.7	19.3	23.6	25.2	24.6	23.5
Construction	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Textile and leather	100.0	38.1	30.6	31.3	52.2	71.7	54.8	55.2
Non specified/other	0.9	32.7	43.1	41.3	62.7	60.9	62.3	65.2
Transport	-	0.1						
Rail Transport	-	2.9	5.3	11.3	8.9	8.7	8.2	7.6
Pipeline Transport	-	-	-	-	-	-	-	-
Road	-	-	-	-	-	-	-	-
Transport Non Specified	-	-	-	-	-	-	-	-
Other sectors	16.0	17.8	26.0	29.3	27.7	30.1	29.7	31.5
Commercial & publ. serv.	57.8	24.6	35.4	44.6	40.7	40.7	42.1	44.9
Residential	12.0	15.3	22.1	22.1	22.6	25.7	24.7	25.9
Agriculture	-	14.9	15.7	16.7	17.6	19.9	20.8	21.7
Fishing	-	-	-	-	-	-	-	-
Sector non specified	-	-	-	-	-	-	-	-

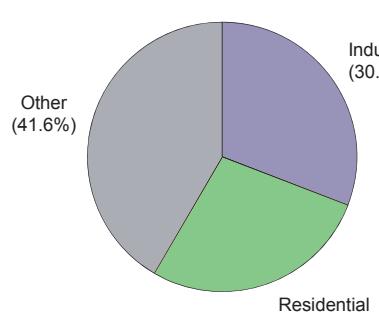
Table 10b. Share of heat in total final consumption (%)

	1974	1990	2000	2005	2010	2012	2013	2014
Share of total final consumption	-	-	-	-	-	-	-	-
Industry	-	-	-	-	-	-	-	-
Iron and steel	-	-	-	-	-	-	-	-
Chem. and petrochemical	-	-	-	-	-	-	-	-
Non-ferrous metals	-	-	-	-	-	-	-	-
Non-metallic minerals	-	-	-	-	-	-	-	-
Transport equipment	-	-	-	-	-	-	-	-
Machinery	-	-	-	-	-	-	-	-
Mining and quarrying	-	-	-	-	-	-	-	-
Food and tobacco	-	-	-	-	-	-	-	-
Paper, pulp and printing	-	-	-	-	-	-	-	-
Wood and wood products	-	-	-	-	-	-	-	-
Construction	-	-	-	-	-	-	-	-
Textile and leather	-	-	-	-	-	-	-	-
Non specified/other	-	-	-	-	-	-	-	-
Transport	-							
Other sectors	-							
Commercial & publ. serv.	-	-	-	-	-	-	-	-
Residential	-	-	-	-	-	-	-	-
Agriculture	-	-	-	-	-	-	-	-
Fishing	-	-	-	-	-	-	-	-
Sector non specified	-	-	-	-	-	-	-	-

Source: IEA/OECD *World Energy Balances*.

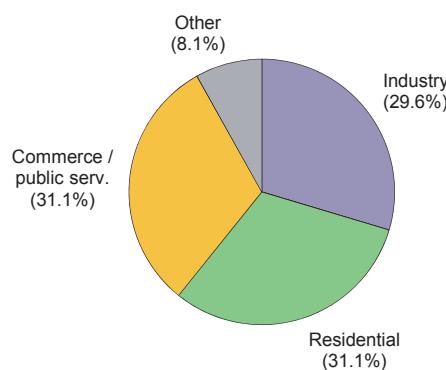
Israel**Figure 1. Total final consumption by fuel****Figure 2. Electricity generation by fuel****Figure 3. Electricity consumption by sector****Figure 4. Electricity indicators****Figure 5. Total final electricity consumption by sector**

1974



7.9 TWh

2014



51.3 TWh

Israel**Table 1. Energy consumption, GDP and population**

	1974	1990	2000	2010	2013	2014	2015p	74-00	00-15
TPES (Mtoe)	5.85	11.47	18.23	23.19	23.13	22.70	23.28	4.5	1.6
GDP (billion 2005 USD)	54.78	94.56	170.38	234.32	261.43	268.11	274.87	4.5	3.2
TPES/GDP ¹	0.11	0.12	0.11	0.10	0.09	0.08	0.08	0.0	-1.5
Population (millions)	3.38	4.66	6.30	7.62	8.06	8.21	8.31	2.4	1.9
TPES/population ²	1.73	2.46	2.89	3.04	2.87	2.76	2.80	2.0	-0.2
TPES/GDP (2005 = 100)	110	125	110	102	91	87	87	0.0	-1.5
Ele.TFC/GDP(2005=100) ³	64	86	101	93	88	85	..	1.8	..
Ele.TFC/population ⁴	2339	3903	6121	6395	6412	6251	..	3.8	..
Elec. generated (TWh) ⁵	9.16	20.90	42.66	58.59	61.32	60.81	65.23	6.1	2.9

Source: IEA/OECD *World Energy Balances* and OECD *Main Economic Indicators*.

Table 2. Total primary energy supply (TPES) by source

	1974	1990	2000	2010	2013	2014	2015p	74-00	00-15
TPES (Mtoe)	5.85	11.47	18.23	23.19	23.13	22.70	23.28	4.5	1.6
Coal	0.00	2.29	6.47	7.41	7.03	6.55	6.36	42.3	-0.1
Oil	5.80	8.83	11.27	10.57	9.60	9.07	9.13	2.6	-1.4
Natural gas	0.06	0.03	0.01	4.40	5.74	6.29	6.97	-7.2	57.2
Biofuels & waste	0.00	0.00	0.01	0.03	0.02	0.02	0.02	4.9	6.9
Nuclear	-	-	-	-	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-	-	-
Solar, wind, tide ⁶	-	0.36	0.60	1.13	1.14	1.17	1.21	-	4.9
Hydro	-	0.00	0.00	0.00	0.00	0.00	0.00	-	-5.6
Net electricity imports ⁷	-0.01	-0.04	-0.13	-0.34	-0.40	-0.42	-0.42	12.3	8.3
Heat	-	-	-	-	-	-	-	-	-

Source: IEA/OECD *World Energy Balances*.

1. In units of toe/2005 thousand US dollars.
2. In units of toe/per capita.
3. Ele.TFC = electricity total final consumption.
4. In units of kWh/per capita.
5. Electricity generated = gross production - amount of electricity produced in pumped storage plants.
6. Includes wave, ocean and other (e.g. fuel cells).
7. Net Imports = total imports - total exports

Israel

Table 3a. Summary electricity production and consumption¹ (TWh)

	1974	1990	2000	2005	2010	2013	2014	2015e
Gross production	9.16	20.90	42.66	48.60	58.59	61.32	60.81	65.23
- Own use by power plant	0.61	1.28	2.09	4.10	4.88 e	2.14	1.99	-
Net production	8.55	19.62	40.57	44.50	53.72	59.18	58.82	-
- Used for heat pumps	-	-	-	-	-	-	-	-
- Used for electric boilers	-	-	-	-	-	-	-	-
- Used for pumped storage	-	-	-	-	-	-	-	-
+ Imports	-	-	-	-	-	-	-	-
- Exports	0.07	0.46	1.46	1.67	3.97	4.68	4.84	4.84
Electrical energy supplied	8.48	19.17	39.11	42.84	49.75	54.51	53.98	..
- Transmission & distr. losses	0.58	0.98	1.44	1.39	1.62 e	2.57	1.74	..
- Statistical difference	-0.00	-	-0.90	-1.04	-0.97	-0.18	0.04	..
Total consumption	7.90	18.18	38.57	42.48	49.10	52.12	52.20	..
Energy industry consumption²	-	-	-	-	0.38	0.48	0.88	..
Coal Mines	-	-	-	-	-	-	-	..
Oil + Gas Extraction	-	-	-	-	-	-	-	..
Patent Fuel Plants	-	-	-	-	-	-	-	..
Coke Ovens	-	-	-	-	-	-	-	..
BKB plants	-	-	-	-	-	-	-	..
Gas Works	-	-	-	-	-	-	-	..
Blast Furnaces	-	-	-	-	-	-	-	..
Oil Refineries	-	-	-	-	0.38	0.48	0.88	..
Nuclear Industry	-	-	-	-	-	-	-	..
Coal Liquefaction Plants	-	-	-	-	-	-	-	..
LNG/Regasification Plants	-	-	-	-	-	-	-	..
Energy - Non Specified	-	-	-	-	-	-	-	..
Final consumption	7.90	18.18	38.57	42.48	48.72	51.64	51.32	..
Industry	2.44	5.29	10.45	11.80	12.49	13.18	15.21	..
Iron and steel	-	0.73	1.06	1.13	1.09	0.47 e	0.54	..
Chem. and petrochemical	-	1.42	2.10	2.09	2.40	-	-	..
Non-ferrous metals	-	0.04	-	-	-	-	-	..
Non-metallic minerals	-	0.39	0.74	0.74	0.76	-	-	..
Transport equipment	-	0.21	0.30	0.33	0.38	0.47 e	0.55	..
Machinery	-	0.09	1.04	0.98	0.75	2.62 e	3.02	..
Mining and quarrying	-	0.39	1.57	1.47	1.42	2.30 e	2.65	..
Food and tobacco	-	0.73	1.11	1.27	1.23	1.69 e	1.95	..
Paper, pulp and printing	-	0.20	0.46	0.51	0.67	0.08 e	0.09	..
Wood and wood products	-	0.11	0.12	0.10	0.11	0.61 e	0.70	..
Construction	-	0.05	0.17	0.75	0.82	-	-	..
Textile and leather	-	0.42	0.54	0.57	0.32	0.21 e	0.25	..
Non specified/other	2.44	0.51	1.23	1.86	2.54	4.73 e	5.46	..
Transport	-	-	-	-	-	-	-	..
Rail Transport	-	-	-	-	-	-	-	..
Pipeline Transport	-	-	-	-	-	-	-	..
Road	-	-	-	-	-	-	-	..
Transport Non Specified	-	-	-	-	-	-	-	..
Commercial & publ. serv.	2.17	5.32	11.57	13.72	15.30	15.66	15.98	..
Residential	-	5.13	11.76	13.08	16.98	17.75	15.95	..
Agriculture	0.28	0.95	1.63	1.70	1.65	1.94	1.77	..
Fishing	-	-	-	-	-	-	-	..
Sector non specified	3.01	1.50	3.17	2.18	2.30	3.11	2.40	..

1. Electricity generation from main activity producer power plants and autoproducers.

2. Energy industry consumption = electricity consumed by transformation industries for heating, traction and lighting purposes;

excludes own use by power plant and electricity used for heat pumps, electric boilers and pumped storage.

Israel**Table 4a. Gross electricity production by source (TWh)**

	1974	1990	2000	2010	2013	2014	2015e	74-00	00-15
Total plants gross production¹	9.16	20.90	42.66	58.59	61.32	60.81	65.23 e	6.1	2.9
Nuclear	-	-	-	-	-	-	-	-	-
Hydro	-	0.00	0.03	0.03	0.03	0.01	0.01 e	-	-5.6
- Of which pumped storage	-	-	-	-	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-	-	-
Solar	-	-	-	0.07	0.49	0.84	1.32 e	-	-
Wind	-	-	-	0.01	0.01	0.01	0.01 e	-	-
Combustible fuels	9.16	20.90	42.63	58.45	60.79	59.95	63.89 e	6.1	2.7
- Coal	..	10.47	29.35	34.29	32.13	30.14	29.38 e	..	0.0
- Oil	..	10.43 e	13.27 e	2.15	2.25	0.30	0.92 e	-	-16.3
- Natural gas	..	-	0.01	21.96	26.38	29.46	33.52 e	..	68.8
- Biofuels & waste	..	-	-	0.06	0.04	0.06	0.06 e	..	-
Other ²	-	-	-	0.03	-	-	- e	-	-
Of which autoproducers	0.22	0.63	0.51	1.72	2.30	3.34	..	3.4	..
Nuclear	-	-	-	-	-	-	..	-	..
Hydro	-	-	-	0.00	0.01	0.01	..	-	..
- Of which pumped storage	-	-	-	-	-	-	..	-	..
Geothermal	-	-	-	-	-	-	..	-	..
Solar	-	-	-	0.07	0.49	0.84	..	-	..
Wind	-	-	-	-	-	-	..	-	..
Combustible fuels	0.22	0.63	0.51	1.64	1.80	2.49	..	3.4	..
- Coal	..	-	0.06	0.05	0.04	0.04
- Oil	..	0.63 e	0.46 e	0.71	0.39	0.23	..	-	-
- Natural gas	..	-	-	0.83	1.32	2.16
- Biofuels & waste	..	-	-	0.06	0.04	0.06
Other ²	-	-	-	0.01	-	-	..	-	..

Table 4b. Gross heat production by source (PJ)

	1974	1990	2000	2010	2013	2014	2015e	74-00	00-15
Total plants heat generation³	-	-	-	-	-	-	- e	-	-
Nuclear	-	-	-	-	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-	-	-
Combustible fuels	-	-	-	-	-	-	-	-	-
- Coal	..	-	-	-	-	-	-	..	-
- Oil	..	-	-	-	-	-	-	..	-
- Natural gas	..	-	-	-	-	-	-	..	-
- Biofuels & waste	..	-	-	-	-	-	-	..	-
Chemical processes	-	-	-	-	-	-	- e	-	-
Heat pumps	-	-	-	-	-	-	-	-	-
Electric boilers	-	-	-	-	-	-	-	-	-
Other sources	-	-	-	-	-	-	-	-	-
Of which Autoproducers	-	-	-	-	-	-	..	-	..
Nuclear	-	-	-	-	-	-	..	-	..
Geothermal	-	-	-	-	-	-	..	-	..
Combustible fuels	-	-	-	-	-	-	..	-	..
- Coal	..	-	-	-	-	-
- Oil	..	-	-	-	-	-
- Natural gas	..	-	-	-	-	-
- Biofuels & waste	..	-	-	-	-	-
Chemical processes	-	-	-	-	-	-	..	-	..
Heat pumps	-	-	-	-	-	-	..	-	..
Electric boilers	-	-	-	-	-	-	..	-	..
Other sources	-	-	-	-	-	-	..	-	..

1. Electricity generated from main activity producer power plants and autoproducers.

2. Includes wave, ocean and other sources (e.g. fuel cells, electricity from chemical heat).

3. Total heat generation = gross production of heat from main activity producer + heat sold in autoproducers.

Israel**Table 5. Net electricity production by autoproducers (GWh)**

	1974	1990	2000	2010	2012	2013	2014	74-00	00-14
Total	202	588	487	1562	1423	2296	3335	3.4	14.7
Total energy	-	-	-	566	462	836	1103	-	-
Coal mines	-	-	-	-	-	-	-	-	-
Oil and gas extraction	-	-	-	-	-	-	-	-	-
Patent fuel plants	-	-	-	-	-	-	-	-	-
Coke ovens	-	-	-	-	-	-	-	-	-
Gas works	-	-	-	-	-	-	-	-	-
BKB	-	-	-	566	462	836	1103	-	-
Oil refineries	-	-	-	-	-	-	-	-	-
Energy non specified/other	-	-	-	-	-	-	-	-	-
Total industry	-	-	-	963	664	918	1325	-	-
Iron and steel	-	-	-	-	-	-	-	-	-
Chemical and petrochemical	-	-	-	281	42	-	-	-	-
Non-ferrous metals	-	-	-	-	-	-	-	-	-
Non-metallic minerals	-	-	-	-	199	-	-	-	-
Transport equipment	-	-	-	-	-	-	-	-	-
Machinery	-	-	-	-	-	-	-	-	-
Mining and quarrying	-	-	-	435	307	-	-	-	-
Food and tobacco	-	-	-	10	7	-	-	-	-
Pulp and printing	-	-	-	102	48	-	-	-	-
Wood and wood products	-	-	-	-	-	-	-	-	-
Construction	-	-	-	-	-	-	-	-	-
Textile and leather	-	-	-	-	-	-	-	-	-
Non specified/other industries	-	-	-	135	61 e	918	1325	-	-
Total transport	-	-	-	-	-	-	-	-	-
Rail	-	-	-	-	-	-	-	-	-
Pipeline	-	-	-	-	-	-	-	-	-
Transport non specified	-	-	-	-	-	-	-	-	-
Other	202	588	487	33	297	542	907	3.4	4.5
Commerce and pub. services	-	-	-	-	-	-	-	-	-
Residential	-	-	-	-	-	-	-	-	-
Agriculture	-	-	-	-	27	-	-	-	-
Fishing	-	-	-	-	-	-	-	-	-
Sector non specified	202	588	487	33 e	270	542	907	3.4	4.5

Notes: Data reported in this table prior to 1990 may refer to combustible fuels only.

Israel**Table 6a. Electricity production from combustible fuels in electricity plants¹**

	1990	2000	2005	2010	2012	2013	2014	90-00	00-14
Steam coal									
Fuel input (1000 t)	3702	10218	12694	12298	14174	11732	10937	10.7	0.5
Fuel input (TJ)	98577	267896	310660	308520	354515	295180	273916	10.5	0.2
Electricity production (GWh)	10382	29219	36161	34243	38719	32085	30097	10.9	0.2
Lignite									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
Coal manufactured gases²									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
Other coal products³									
Fuel input (1000 t)	303	456	429	432	423	421	396	4.2	-1.0
Fuel input (TJ)	887	1336	1257	1272	1272	1671	1572	4.2	1.2
Electricity production (GWh)	86	133	121	46	41	43	39	4.5	-8.4
Oil and petroleum products									
Fuel input (1000 t)	2609	2470	1216	579	3699	525	69	-0.5	-22.6
Fuel input (TJ)	105421	101123	60592	23361	137364	20572	1614	-0.4	-25.6
Electricity production (GWh)	10427 e	13265 e	6654	2145	13193	2245	299	2.4	-23.7
Natural gas²									
Fuel input (TJ)	-	140	62607	193347	76692	258879	263695	-	71.4
Electricity production (GWh)	-	13	5627	21955	10566	26378	29457	-	73.6
Solid biofuels									
Fuel input (TJ)	-	-	-	367	-	-	-	-	-
Electricity production (GWh)	-	-	-	29	-	-	-	-	-
Industrial waste									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
Municipal waste									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
Biogases and liquid biofuels									
Fuel input (TJ)	-	-	-	347	777	442 e	638 e	-	-
Electricity production (GWh)	-	-	-	32	76	43	62	-	-
Total combustible fuels									
Electricity production (GWh)	20895 e	42630 e	48563	58450	62595	60794	59954	7.4	2.5

1. Excludes CHP plants.

2. Coal manufactured gases and natural gas are expressed on a gross calorific value basis.

3. Includes Coking coal as well as peat and peat products, patent fuels, BKB and shale oil

Israel

Table 7. Net maximum electricity generating capacity on 31 December (GW)

	1974	1990	2000	2005	2010	2012	2013	2014
Total capacity¹	..	5.07	9.13	10.61	13.06	14.41	14.99	16.22
Nuclear	..	-	-	-	-	-	-	-
Hydro	..	-	-	0.01	0.01	0.01	0.01 e	0.01
of which: pumped storage	..	-	-	-	-	-	-	-
Geothermal	..	-	-	-	-	-	-	-
Solar PV	..	-	-	-	0.07	0.24	0.48 e	0.68 e
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	..	-	-	-	-	-	-	-
Wind	..	-	-	0.01	0.01	0.01	0.01	0.01
Other (e.g. fuel cells)	..	-	-	-	0.04	-	-	-
Combustible fuels	..	5.07	9.13	10.59	12.94	14.16	14.49	15.53
of which ⁽²⁾ :								
<i>Single-fired:</i>								
Coal and Coal products	..	2.19 e	-	-	-	-
Liquid fuels	..	2.87 e	4.84 e	4.46 e	0.06	0.06
Natural gas	..	-	-	-	0.10	0.12
Biofuels & waste	..	-	-	-	0.05	0.05
<i>Multi-fired:</i>								
Solid / liquid	..	-	4.29 e	4.84 e	4.84 e	4.84 e	4.84	4.84
Solid / natural gas	..	-	-	-	-	-
Liquid / natural gas	..	-	- e	1.29 e	7.90 e	9.09 e	9.24	10.22
Solid / liquid / gas	..	-	-	-	-	-
<u>Type of generation</u>								
Steam	..	4.11	6.48 e	6.93 e	6.76	6.76	6.46	6.46
Internal combustion	..	-	- e	- e	0.03	0.03	0.03	0.03
Gas turbine	..	0.96	2.32 e	2.29 e	3.04	3.30	2.33	2.07
Combined cycle	..	-	0.34 e	1.37 e	2.85	3.71	4.79	6.03
Other	..	-	- e	- e	0.27	0.37	0.88	0.47
<u>Peak load</u>	..	3.80	7.90 e	9.03 e	10.47	11.69	11.64	11.34
Of which Autoproducers	..	-	-	0.01	0.48	0.67	0.89	1.15
Nuclear	..	-	-	-	-	-	-	-
Hydro	..	-	-	-	-	-	- e	-
of which: pumped storage	..	-	-	-	-	-	-	-
Geothermal	..	-	-	-	-	-	-	-
Solar PV	..	-	-	-	0.07	0.24	0.48 e	0.68 e
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	..	-	-	-	-	-	-	-
Wind	..	-	-	0.01	-	-	-	-
Other (e.g. fuel cells)	..	-	-	-	0.01	-	-	-
Combustible fuels	..	-	-	-	0.39	0.43	0.41	0.46

1. Sum of available capacity figures

2. Breakdown of electrical capacity by type of fuel are shown in the individual country chapters.

Israel**Table 8. Capacity factors (%)**

	1974	1990	2000	2005	2010	2012	2013	2014
Total plants¹	..	47.1	53.3	52.3	51.2	49.9	46.7	42.8
Nuclear	..	-	-	-	-	-	-	-
Hydro	..	-	-	63.9	50.6	53.8	32.0 e	14.8
<i>of which: pumped storage</i>	..	-	-	-	-	-	-	-
Geothermal	..	-	-	-	-	-	-	-
Solar PV	..	-	-	-	11.4	17.8	11.7 e	14.1 e
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	..	-	-	-	-	-	-	-
Wind	..	-	-	20.9	15.2	11.4	11.4	11.4
Other (e.g. fuel cells)	..	-	-	-	10.4	-	-	-
Combustible fuels	..	47.1	53.3	52.3	51.6	50.5	47.9	44.1
Of which autoproducers	..	-	-	843.5	41.3	25.9	29.3	33.3
Nuclear	..	-	-	-	-	-	-	-
Hydro	..	-	-	-	22.8	22.8	28.5 e	28.5
<i>of which: pumped storage</i>	..	-	-	-	-	-	-	-
Geothermal	..	-	-	-	-	-	-	-
Solar PV	..	-	-	-	11.4	17.8	11.7 e	14.1 e
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	..	-	-	-	-	-	-	-
Wind	..	-	-	20.9	-	-	-	-
Other (e.g. fuel cells)	..	-	-	-	6.9	-	-	-
Combustible fuels	..	-	-	-	47.6	30.5	49.9	61.5

1. The capacity factor is defined as: the annual gross electricity generation (in GWh) divided by the net capacity (in GW) times 365 (days/year) times 24 (hours/day)

Israel**Table 9b. Electricity exports by destination (GWh)**

	1974	1990	2000	2005	2010	2012	2013	2014
Total exports	-	456	1457	1667	3966	4434	4675	4844
Total to OECD	-	-	-	-	-	-	-	-
Austria	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-
Canada	-	-	-	-	-	-	-	-
Czech Republic	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-
Greece	-	-	-	-	-	-	-	-
Hungary	-	-	-	-	-	-	-	-
Ireland	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-
Luxembourg	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-
Poland	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-
Slovak Republic	-	-	-	-	-	-	-	-
Slovenia	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-
Switzerland	-	-	-	-	-	-	-	-
Turkey	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-
United States	-	-	-	-	-	-	-	-
Total to non-OECD	-	-	-	-	-	-	-	-
Albania	-	-	-	-	-	-	-	-
Azerbaijan	-	-	-	-	-	-	-	-
Belarus	-	-	-	-	-	-	-	-
Bulgaria	-	-	-	-	-	-	-	-
Croatia	-	-	-	-	-	-	-	-
F.Y.R. of Macedonia	-	-	-	-	-	-	-	-
Georgia	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-
Romania	-	-	-	-	-	-	-	-
Russian Federation	-	-	-	-	-	-	-	-
Serbia	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-
Turkmenistan	-	-	-	-	-	-	-	-
Ukraine	-	-	-	-	-	-	-	-
Non-specified/others	-	456	1457	1667	3966	4434	4675	4844

Israel**Table 10a. Share of electricity in total final consumption (%)**

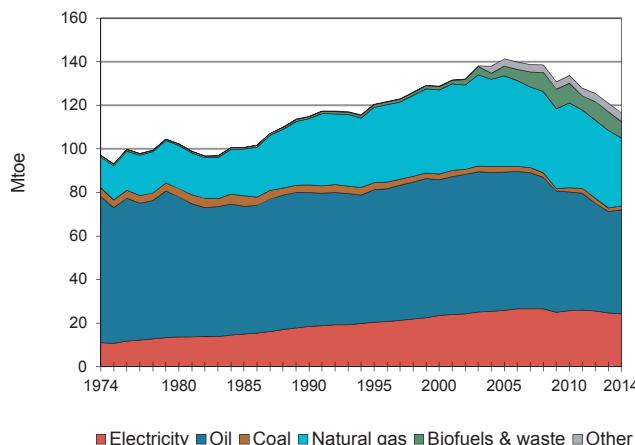
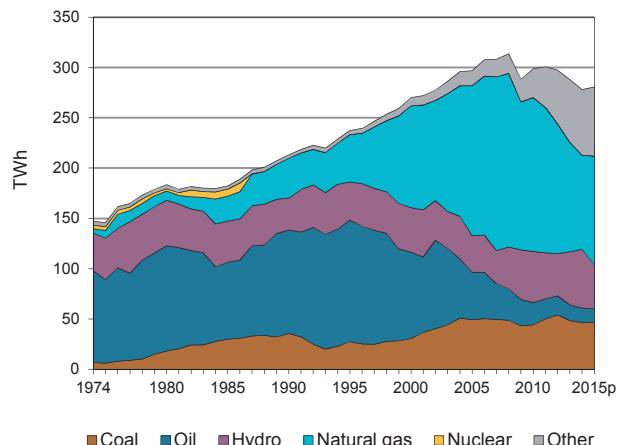
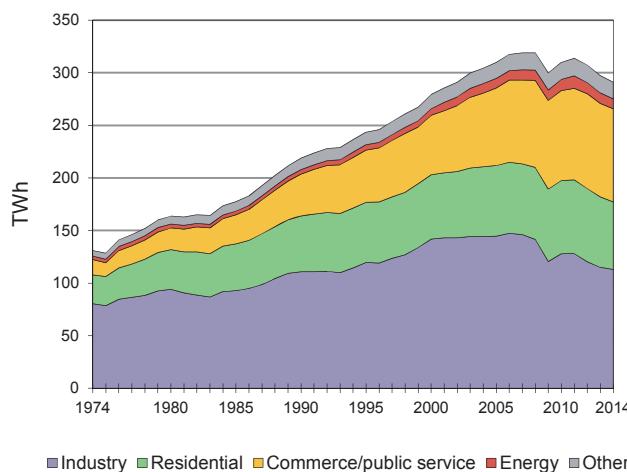
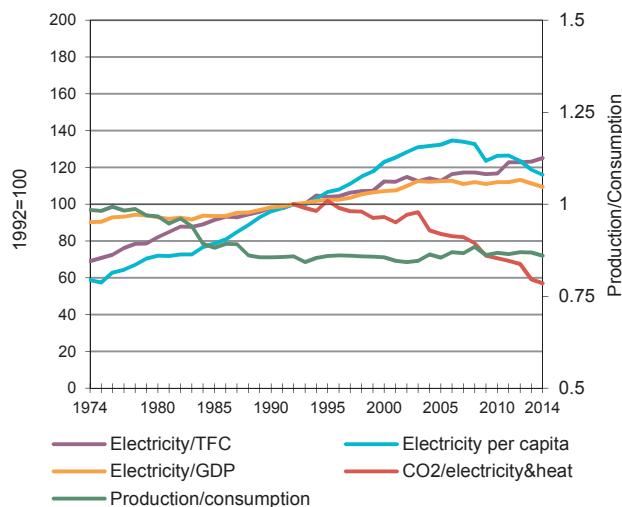
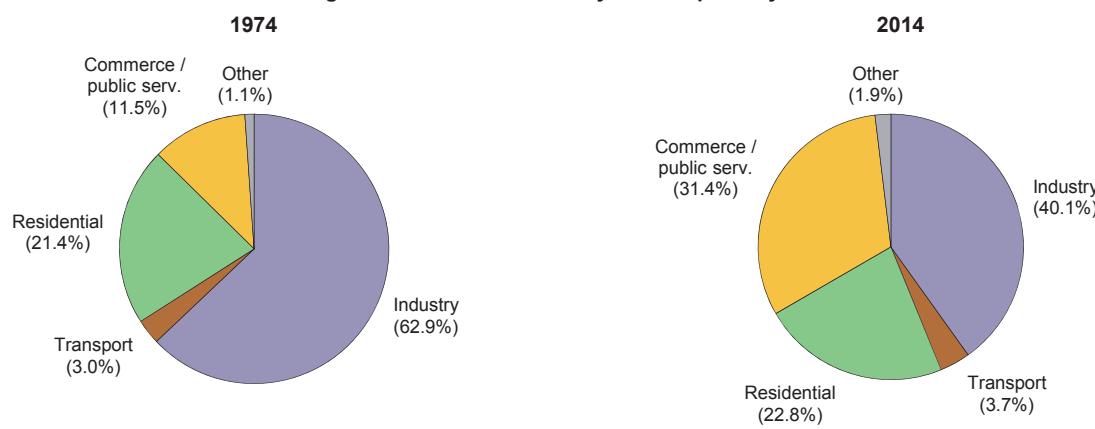
	1974	1990	2000	2005	2010	2012	2013	2014
Share of total final consumption	18.6	22.5	27.7	30.6	28.3	30.2	31.9	30.5
Industry	19.8	31.7	66.3	79.6	52.1	70.2	54.9	54.9
Iron and steel	-	100.0	100.0	100.0	100.0	100.0	100.0 e	100.0
Chem. and petrochemical	-	100.0	100.0	100.0	28.0	100.0	-	-
Non-ferrous metals	-	100.0	-	-	-	-	-	-
Non-metallic minerals	-	100.0	100.0	100.0	100.0	100.0	-	-
Transport equipment	-	100.0	100.0	100.0	100.0	100.0	100.0 e	100.0
Machinery	-	100.0	100.0	100.0	100.0	100.0	100.0 e	100.0
Mining and quarrying	-	100.0	100.0	100.0	100.0	100.0	100.0 e	100.0
Food and tobacco	-	100.0	100.0	100.0	100.0	100.0	100.0 e	100.0
Paper, pulp and printing	-	100.0	100.0	100.0	100.0	100.0	100.0 e	100.0
Wood and wood products	-	100.0	100.0	100.0	100.0	100.0	100.0 e	100.0
Construction	-	100.0	100.0	100.0	100.0	100.0	-	-
Textile and leather	-	100.0	100.0	100.0	100.0	100.0	100.0 e	100.0
Non specified/other	19.8	4.3	18.9	38.1	32.3	38.8	30.4 e	30.4
Transport	-	-	-	-	-	-	-	-
Rail Transport	-	-	-	-	-	-	-	-
Pipeline Transport	-	-	-	-	-	-	-	-
Road	-	-	-	-	-	-	-	-
Transport Non Specified	-	-	-	-	-	-	-	-
Other sectors	42.6	52.8	55.5	55.6	52.8	56.8	69.7	68.1
Commercial & publ. serv.	-	100.0	100.0	100.0	100.0	100.0	92.0	91.1
Residential	63.7	34.6	41.0	43.6	38.8	41.5	52.1	52.6
Agriculture	100.0	100.0	100.0	100.0	100.0	100.0	91.4	90.7
Fishing	-	-	-	-	-	-	-	-
Sector non specified	32.9	49.8	35.0	24.5	21.8	26.8	84.9	75.5

Table 10b. Share of heat in total final consumption (%)

	1974	1990	2000	2005	2010	2012	2013	2014
Share of total final consumption	-	-	-	-	-	-	-	-
Industry	-	-	-	-	-	-	-	-
Iron and steel	-	-	-	-	-	-	-	-
Chem. and petrochemical	-	-	-	-	-	-	-	-
Non-ferrous metals	-	-	-	-	-	-	-	-
Non-metallic minerals	-	-	-	-	-	-	-	-
Transport equipment	-	-	-	-	-	-	-	-
Machinery	-	-	-	-	-	-	-	-
Mining and quarrying	-	-	-	-	-	-	-	-
Food and tobacco	-	-	-	-	-	-	-	-
Paper, pulp and printing	-	-	-	-	-	-	-	-
Wood and wood products	-	-	-	-	-	-	-	-
Construction	-	-	-	-	-	-	-	-
Textile and leather	-	-	-	-	-	-	-	-
Non specified/other	-	-	-	-	-	-	-	-
Transport	-	-	-	-	-	-	-	-
Other sectors	-	-	-	-	-	-	-	-
Commercial & publ. serv.	-	-	-	-	-	-	-	-
Residential	-	-	-	-	-	-	-	-
Agriculture	-	-	-	-	-	-	-	-
Fishing	-	-	-	-	-	-	-	-
Sector non specified	-	-	-	-	-	-	-	-

Source: IEA/OECD *World Energy Balances*.

Italy

Figure 1. Total final consumption by fuel**Figure 2. Electricity generation by fuel****Figure 3. Electricity consumption by sector****Figure 4. Electricity indicators****Figure 5. Total final electricity consumption by sector**

Italy**Table 1. Energy consumption, GDP and population**

	1974	1990	2000	2010	2013	2014	2015p	74-00	00-15
TPES (Mtoe)	121.92	146.56	171.52	173.72	155.37	146.77	150.72	1.3	-0.9
GDP (billion 2005 USD)	1133.68	1749.18	2060.21	2125.06	2040.75	2033.75	2049.19	2.3	-0.0
TPES/GDP ¹	0.11	0.08	0.08	0.08	0.08	0.07	0.07	-1.0	-0.8
Population (millions)	55.11	56.72	56.94	59.83	60.65	60.80	61.05	0.1	0.5
TPES/population ²	2.21	2.58	3.01	2.90	2.56	2.41	2.47	1.2	-1.3
TPES/GDP (2005 = 100)	125	97	96	95	88	84	85	-1.0	-0.8
Ele.TFC/GDP(2005=100) ³	81	88	95	101	101	99	..	0.6	..
Ele.TFC/population ⁴	2318	3785	4796	5004	4741	4632	..	2.8	..
Elec. generated (TWh) ⁵	147.35	213.15	269.94	298.77	287.91	278.12	280.67	2.4	0.3

Source: IEA/OECD *World Energy Balances* and OECD *Main Economic Indicators*.**Table 2. Total primary energy supply (TPES) by source**

	1974	1990	2000	2010	2013	2014	2015p	74-00	00-15
TPES (Mtoe)	121.92	146.56	171.52	173.72	155.37	146.77	150.72	1.3	-0.9
Coal	9.27	14.63	12.56	13.67	13.54	13.08	12.42	1.2	-0.1
Oil	88.99	83.32	86.85	65.30	53.34	51.58	51.59	-0.1	-3.4
Natural gas	15.96	38.99	57.92	68.04	57.37	50.69	55.29	5.1	-0.3
Biofuels & waste	1.21	0.94	2.25	12.65	14.65	14.00	14.57	2.4	13.3
Nuclear	0.89	-	-	-	-	-	-	-	-
Geothermal	2.15	2.97	4.26	4.77	5.02	5.23	5.46	2.7	1.7
Solar, wind, tide ⁶	-	0.01	0.06	e	1.08	3.31	3.40	3.62	-
Hydro	3.25	2.72	3.80	4.40	4.54	5.03	3.77	0.6	-0.0
Net electricity imports ⁷	0.20	2.98	3.81	3.80	3.62	3.76	3.99	12.1	0.3
Heat	-	-	-	-	-	-	-	-	-

Source: IEA/OECD *World Energy Balances*.

1. In units of toe/2005 thousand US dollars.

2. In units of toe/per capita.

3. Ele.TFC = electricity total final consumption.

4. In units of kWh/per capita.

5. Electricity generated = gross production - amount of electricity produced in pumped storage plants.

6. Includes wave, ocean and other (e.g. fuel cells).

7. Net Imports = total imports - total exports

Italy

Table 3a. Summary electricity production and consumption¹ (TWh)

	1974	1990	2000	2005	2010	2013	2014	2015e
Gross production	148.91	216.60	276.64	303.70	302.06	289.81	279.83	282.04
- Own use by power plant	6.64	11.54	13.34	13.07	11.32	10.97	10.68	-
Net production	142.27	205.06	263.31	290.64	290.75	278.83	269.15	-
- Used for heat pumps	-	-	-	-	-	-	-	-
- Used for electric boilers	-	-	-	-	-	-	-	-
- Used for pumped storage	2.23	4.78	9.13	9.32	4.45	2.50	2.33	1.85
+ Imports	4.21	35.58	44.83	50.26	45.99	44.34	46.75	50.85
- Exports	1.92	0.92	0.48	1.11	1.83	2.20	3.03	4.47
Electrical energy supplied	142.33	234.94	298.52	330.47	330.45	318.48	310.54	..
- Transmission & distr. losses	11.37	16.16	19.20	20.63	20.57	21.19	19.45	..
- Statistical difference	-	-	-	-	0.00	-	-0.00	..
Total consumption	130.96	218.78	279.32	309.85	309.88	297.29	291.09	..
Energy industry consumption²	3.28	4.15	6.34	8.97	10.57	9.89	9.59	..
Coal Mines	0.05	0.06	0.02	0.04	0.04	0.04	0.03	..
Oil + Gas Extraction	0.67	0.13	0.20	0.33	0.38	0.36	0.36	..
Patent Fuel Plants	-	-	-	-	-	-	-	..
Coke Ovens	0.13	0.17	0.16	0.16	0.18	0.06	0.04	..
BKB plants	-	-	-	-	-	-	-	..
Gas Works	0.06	0.12	-	-	-	-	-	..
Blast Furnaces	-	-	-	-	-	-	-	..
Oil Refineries	2.09	2.98	4.30	5.95	5.86	5.38	5.23	..
Nuclear Industry	-	0.01	0.00	0.01	0.01	0.01	0.01	..
Coal Liquefaction Plants	-	-	-	-	-	-	-	..
LNG/Regasification Plants	-	-	-	-	-	-	-	..
Energy - Non Specified	0.29	0.68	1.67	2.48	4.10	4.05	3.92	..
Final consumption	127.68	214.63	272.98	300.88	299.31	287.40	281.50	..
Industry	80.35	110.92	141.85	144.76	127.87	114.98	112.92	..
Iron and steel	15.90	19.41	20.35	20.40	18.68	18.30	18.36	..
Chem. and petrochemical	19.17	19.82	21.95	19.02	15.54	14.84	14.20	..
Non-ferrous metals	5.92	6.16	5.53	5.64	4.57	2.42	2.52	..
Non-metallic minerals	7.91	11.31	13.70	14.68	11.87	9.46	9.18	..
Transport equipment	2.56	3.79	4.71	4.24	3.79	3.33	3.34	..
Machinery	7.66	14.12	20.45	23.55	21.34	19.79	19.53	..
Mining and quarrying	1.26	1.27	1.05	1.07	0.88	0.68	0.64	..
Food and tobacco	3.88	7.50	11.64	13.00	12.79	11.95	11.97	..
Paper, pulp and printing	4.82	7.12	10.10	10.94	9.76	9.08	8.67	..
Wood and wood products	1.45	1.76	4.04	4.37	3.91	2.98	2.89	..
Construction	0.66	0.96	1.23	1.71	1.75	1.29	1.25	..
Textile and leather	6.85	9.77	11.46	9.12	6.33	5.34	5.24	..
Non specified/other	2.30	7.93	15.65	17.05	16.66	15.52	15.12	..
Transport	3.88	6.73	8.51	9.92	10.67	10.78	10.46	..
Rail Transport	3.88	4.27	4.50	4.58	4.58	5.03	4.97	..
Pipeline Transport	-	0.47	0.43	0.50	0.48	0.43	0.43	..
Road	-	-	-	-	0.06	0.07	0.07	..
Transport Non Specified	-	1.99	3.59	4.84	5.55	5.25	5.00	..
Commercial & publ. serv.	27.33	52.73	61.11	66.96	69.55	66.98	64.26	..
Residential	14.70	40.03	56.60	73.88	85.62	88.98	88.49	..
Agriculture	1.42	4.23	4.91	5.29	5.54	5.55	5.21	..
Fishing	-	-	-	0.07	0.07	0.13	0.17	..
Sector non specified	-	-	-	-	-	-	-	..

1. Electricity generation from main activity producer power plants and autoproducers .

2. Energy industry consumption = electricity consumed by transformation industries for heating, traction and lighting purposes;

excludes own use by power plant and electricity used for heat pumps, electric boilers and pumped storage.

Italy

Table 3b. Summary heat production and consumption¹ (TJ)

	1974	1990	2000	2005	2010	2013	2014	2015e
Gross production	-	-	-	193064	205341	216409	205954	223527
- Own use by power plant	-	-	-	-	-	46	68	-
Net production	-	-	-	193064	205341	216363	205886	-
- Used for electricity production	-	-	-	-	-	-	-	-
+ Imports	-	-	-	-	-	-	-	-
- Exports	-	-	-	-	-	-	-	-
Heat energy supplied	-	-	-	193064	205341	216363	205886	..
- Transmission & distr. losses	-	-	-	-	-	806	763	..
- Statistical difference	-	-	-	-1	-1	1	-	..
Total consumption	-	-	-	193065	205342	215556	205123	..
Energy industry consumption²	-	-	-	64014	65839	60562	48248	..
Coal Mines	-	-	-	-	-	65	11	..
Oil + Gas Extraction	-	-	-	1652	2336	736	887	..
Patent Fuel Plants	-	-	-	-	-	-	-	..
Coke Ovens	-	-	-	16	66	179	218	..
BKB plants	-	-	-	-	-	-	-	..
Gas Works	-	-	-	-	-	-	-	..
Blast Furnaces	-	-	-	-	-	-	-	..
Oil Refineries	-	-	-	26143	39880	45126	31281	..
Nuclear Industry	-	-	-	-	-	-	-	..
Coal Liquefaction Plants	-	-	-	-	-	-	-	..
LNG/Regasification Plants	-	-	-	-	-	-	-	..
Energy - Non Specified	-	-	-	36203	23557	14456	15851	..
Final consumption	-	-	-	129051	139503	154994	156875	..
Industry	-	-	-	119418	131022	107190	110078	..
Iron and steel	-	-	-	2119	1592	3645	3921	..
Chem. and petrochemical	-	-	-	46297	43891	52049	37766	..
Non-ferrous metals	-	-	-	17	13	24	29	..
Non-metallic minerals	-	-	-	4192	3264	4532	5455	..
Transport equipment	-	-	-	4783	7173	3306	3633	..
Machinery	-	-	-	973	845	645	644	..
Mining and quarrying	-	-	-	470	3	3	204	..
Food and tobacco	-	-	-	8299	6653	11129	15826	..
Paper, pulp and printing	-	-	-	30011	21569	23595	35044	..
Wood and wood products	-	-	-	634	1218	1142	1519	..
Construction	-	-	-	4	8	17	30	..
Textile and leather	-	-	-	3599	1807	1686	1863	..
Non specified/other	-	-	-	18020	42986	5417	4144	..
Transport	-	-	-	-	-	-	-	..
Commercial & publ. serv.	-	-	-	2931	2065	6444	11146	..
Residential	-	-	-	6651	5133	38959	34264	..
Agriculture	-	-	-	51	55	850	941	..
Fishing	-	-	-	-	-	-	-	..
Sector non specified	-	-	-	-	1228	1551	446	..

1. Heat generation from main activity producer power plants and autoproducers.

2. Energy industry consumption = electricity consumed by transformation industries for heating, traction and lighting purposes;

excludes own use by power plant and electricity used for heat pumps, electric boilers and pumped storage.

Italy

Table 4a. Gross electricity production by source (TWh)

	1974	1990	2000	2010	2013	2014	2015e	74-00	00-15
Total plants gross production¹	148.91	216.60	276.64	302.06	289.81	279.83	282.04	2.4	0.1
Nuclear	3.41	-	-	-	-	-	-	-	-
Hydro	39.35	35.08	50.90	54.41	54.67	60.26	45.26	1.0	-0.8
- Of which pumped storage	1.55	3.45	6.70	3.29	1.90	1.71	1.37	5.8	-10.0
Geothermal	2.50	3.22	4.71	5.38	5.66	5.92	6.18	2.5	1.8
Solar	-	0.00 e	0.02 e	1.91	21.59	22.31	25.21	-	62.1
Wind	-	0.00	0.56	9.13	14.90	15.18	14.68	-	24.3
Combustible fuels	103.65	178.29	219.67	230.47	192.24	175.51	189.74	2.9	-1.0
- Coal	..	35.76	30.52	44.43	48.49	46.52	46.72	..	2.9
- Oil	..	102.72	85.88	21.71	15.48	14.16	13.51	..	-11.6
- Natural gas	..	39.71	101.36	152.74	108.88	93.64	107.61	..	0.4
- Biofuels & waste	..	0.10	1.91	11.59	19.39	21.19	21.90	..	17.7
Other ²	-	-	0.79	0.78	0.75	0.66	0.97	-	1.4
Of which autoproducers	31.13	26.27	..	23.87	16.07	15.74
Nuclear	-	-	-	-	-	-	..	-	..
Hydro	7.44	5.75	..	0.93	0.63	0.74
- Of which pumped storage	-	0.03	..	-	-	-
Geothermal	-	-	-	-	-	-	..	-	..
Solar	-	-	-	-	-	-	..	-	..
Wind	-	-	-	0.00	-	-	..	-	..
Combustible fuels	23.69	20.52	..	22.42	15.12	14.75
- Coal	..	3.74	..	0.02	0.01	0.01
- Oil	..	9.18	..	4.60	2.68	2.29
- Natural gas	..	7.57	c	16.88	12.06	12.04	..	c	c
- Biofuels & waste	..	0.03	..	0.92	0.38	0.41
Other ²	-	-	..	0.51	0.32	0.26

Table 4b. Gross heat production by source (PJ)

	1974	1990	2000	2010	2013	2014	2015e	74-00	00-15
Total plants heat generation³	-	-	-	205.34	216.41	205.95	223.53	-	-
Nuclear	-	-	-	-	-	-	-	-	-
Geothermal	-	-	-	0.59	0.65	0.76	0.82	-	-
Combustible fuels	-	-	-	204.75	215.76	205.19	222.70	-	-
- Coal	..	-	-	2.26	4.13	4.06	4.13
- Oil	..	-	..	60.27	44.89	34.09	32.97
- Natural gas	..	-	-	128.83	128.60	123.63	142.09	..	-
- Biofuels & waste	..	-	-	13.39	38.14	43.40	43.52	..	-
Chemical processes	-	-	-	-	-	-	-	-	-
Heat pumps	-	-	-	-	-	-	-	-	-
Electric boilers	-	-	-	-	-	-	-	-	-
Other sources	-	-	-	-	-	-	-	-	-
Of which Autoproducers	-	-	-	109.90	83.72	73.30	..	-	..
Nuclear	-	-	-	-	-	-	..	-	..
Geothermal	-	-	-	-	-	-	..	-	..
Combustible fuels	-	-	-	109.90	83.72	73.30	..	-	..
- Coal	..	-	-	0.52	0.20	0.42
- Oil	..	-	..	48.39	30.46	21.03
- Natural gas	..	-	-	59.51	52.04	50.94
- Biofuels & waste	..	-	-	1.48	1.01	0.90
Chemical processes	-	-	-	-	-	-	..	-	..
Heat pumps	-	-	-	-	-	-	..	-	..
Electric boilers	-	-	-	-	-	-	..	-	..
Other sources	-	-	-	-	-	-	..	-	..

1. Electricity generated from main activity producer power plants and autoproducers.

2. Includes wave, ocean and other sources (e.g. fuel cells, electricity from chemical heat).

3. Total heat generation = gross production of heat from main activity producer + heat sold in autoproducers.

Italy**Table 5. Net electricity production by autoproducers (GWh)**

	1974	1990	2000	2010	2012	2013	2014	74-00	00-14
Total	22160	25105	..	22857	15309	15453	15144
Total energy	-	1629	..	4041	3714	3085	3053
Coal mines	-	-	-	-	-	-	-	-	-
Oil and gas extraction	-	-	-	176	154	154	166	-	-
Patent fuel plants	-	-	-	-	-	-	-	-	-
Coke ovens	-	-	-	-	-	-	-	-	-
Gas works	-	-	-	-	-	-	-	-	-
BKB	-	-	-	3856	3516	2896	2865	-	-
Oil refineries	-	-	-	-	-	-	-	-	-
Energy non specified/other	-	-	-	-	-	-	-	-	-
Total industry	22160	23476	..	17784	10689	11260	10999
Iron and steel	2992	5658	..	916	903	773	765
Chemical and petrochemical	12165	12072	..	7351	1693	1907	1927
Non-ferrous metals	2569	75	..	40	33	19	28
Non-metallic minerals	408	591	..	1116	871	1040	1119
Transport equipment	-	-	..	1213	993	1033	44
Machinery	312	1241	..	271	299	286	310
Mining and quarrying	34	47	-	3	1	1	7	-	-
Food and tobacco	598	490	..	1374	989	1258	1817
Pulp and printing	1881	1897	..	4415	4225	4219	4204
Wood and wood products	-	-	..	310	317	312	315
Construction	-	-	-	1	1	1	2	-	-
Textile and leather	1098	1171	..	400	195	190	247
Non specified/other industries	103	234	..	374	169	221	214
Total transport	-	-	-	578	561	495	438	-	-
Rail	-	-	-	-	-	-	-	-	-
Pipeline	-	-	-	-	-	-	-	-	-
Transport non specified	-	-	-	578	561	495	438	-	-
Other	-	-	..	454	345	613	654
Commerce and pub. services	-	-	-	352	323	603	642	-	-
Residential	-	-	-	5	1	-	-	-	-
Agriculture	-	-	-	97	21	10	12	-	-
Fishing	-	-	-	-	-	-	-	-	-
Sector non specified	-	-	..	-	-	-	-

Notes: Data reported in this table prior to 1990 may refer to combustible fuels only.

Italy**Table 6a. Electricity production from combustible fuels in electricity plants¹**

	1990	2000	2005	2010	2012	2013	2014	90-00	00-14
Steam coal									
Fuel input (1000 t)	10693	9530 e	16115	14969	17934	16683	16077	-1.1	3.8
Fuel input (TJ)	283096	239946 e	421540	376204	451421	421635	404160	-1.6	3.8
Electricity production (GWh)	30697	25736	43069	39604	49011	44966	43322	-1.7	3.8
Lignite									
Fuel input (1000 t)	1058	4 e	-	-	-	-	-	-42.8	-
Fuel input (TJ)	12345	52 e	-	-	-	-	-	-42.1	-
Electricity production (GWh)	1171	6	-	-	-	-	-	-41.0	-
Coal manufactured gases²									
Fuel input (TJ)	32700	14371 e	20722	10017	19574	13568	15121	-7.9	0.4
Electricity production (GWh)	2936	1535	2036	923	1919	1306	1370	-6.3	-0.8
Other coal products³									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
Oil and petroleum products									
Fuel input (1000 t)	20924	17478 e	6903	1583	942	733	688	-1.8	-20.6
Fuel input (TJ)	853169	691096 e	268241	54104	37887	29352	27226	-2.1	-20.6
Electricity production (GWh)	94455	73074	27871	5096	3540	2724	2586	-2.5	-21.2
Natural gas²									
Fuel input (TJ)	323771	543995	655985	514033	403975	316731	250920	5.3	-5.4
Electricity production (GWh)	32386	58284	81682	66031	52916	41021	31854	6.1	-4.2
Solid biofuels									
Fuel input (TJ)	-	1046 e	14925	21557	30644	34022	35055	-	28.5
Electricity production (GWh)	-	87	963	1544	1558	2142	2031	-	25.2
Industrial waste									
Fuel input (TJ)	-	670	1626	1673	1523	992	817	-	1.4
Electricity production (GWh)	-	56	111	98	90	75	61	-	0.6
Municipal waste									
Fuel input (TJ)	921	3204 e	18272	35024	38580	39360	38760	13.3	19.5
Electricity production (GWh)	71	267	831	2122	2404	2460	2514	14.2	17.4
Biogases and liquid biofuels									
Fuel input (TJ)	-	5093	10507	31243	40711	56361	58803	-	19.1
Electricity production (GWh)	-	524	967	3584	4534	6249	6622	-	19.9
Total combustible fuels									
Electricity production (GWh)	161716	159569	157530	119002	115972	100943	90360	-0.1	-4.0

1. Excludes CHP plants.

2. Coal manufactured gases and natural gas are expressed on a gross calorific value basis.

3. Includes Coking coal as well as peat and peat products, patent fuels, BKB and shale oil

Italy**Table 6b. Electricity and heat produced for sale from combustible fuels
in combined heat and power plants (CHP plants)**

	1990	2000	2005	2010	2012	2013	2014	90-00	00-14
Steam coal									
Fuel input (1000 t)	31	99 e	261	81	83	90	84	12.3	-1.2
Fuel input (TJ)	840	2575 e	7064	2266	2310	2486	2592	11.9	0.0
Electricity production (GWh)	178	530	537	130	130	139	132	11.5	-9.5
CHP Heat production (TJ)	-	-	2939	1288	1315	1462	1530	-	-
Lignite									
Fuel input (1000 t)	-	..	-	-	-	-	-
Fuel input (TJ)	3	..	-	-	-	-	-
Electricity production (GWh)	1	..	-	-	-	-	-
CHP Heat production (TJ)	-	-	-	-	-	-	-	-	-
Coal manufactured gases¹									
Fuel input (TJ)	5040	20647 e	35168	38118	33157	22168	19335	15.1	-0.5
Electricity production (GWh)	779	2717	3777	3777	3050	2082	1700	13.3	-3.3
CHP Heat production (TJ)	-	-	2433	973	3560	2671	2531	-	-
Other coal products²									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
CHP Heat production (TJ)	-	-	-	-	-	-	-	-	-
Petroleum products									
Fuel input (1000 t)	1579	3449 e	5613	6009	5048	3861	3590	8.1	0.3
Fuel input (TJ)	63763	102336 e	197791	201025	162452	130172	115163	4.8	0.8
Electricity production (GWh)	8264	12804	19253	16618	15350	12758	11577	4.5	-0.7
CHP Heat production (TJ)	-	..	55792	60272	45477	44885	34094
Natural gas¹									
Fuel input (TJ)	56767	331791	659728	781761	708273	622157	578492	19.3	4.1
Electricity production (GWh)	7323	43076	67580	86707	76142	67854	61783	19.4	2.6
CHP Heat production (TJ)	-	-	120822	128832	128827	128597	123634	-	-
Solid Biofuels									
Fuel input (TJ)	84	3379 e	17724	14113	29070	44377	47342	44.7	20.8
Electricity production (GWh)	12	338	1203	717	1024	1537	1792	39.6	12.7
CHP Heat production (TJ)	-	-	3888	3919	11374	18571	22104	-	-
Industrial waste									
Fuel input (TJ)	586	562	683	-	352	242	330	-0.4	-3.7
Electricity production (GWh)	16	56	59	-	13	12	20	13.3	-7.1
CHP Heat production (TJ)	-	-	104	-	38	106	56	-	-
Municipal waste									
Fuel input (TJ)	18	3980 e	28245	30154	28980	29942	33122	71.6	16.3
Electricity production (GWh)	2	537	1788	1972	1922	1954	2228	74.9	10.7
CHP Heat production (TJ)	-	-	6002	5166	5942	6976	7136	-	-
Biogases and liquid biofuels									
Fuel input (TJ)	42	387	3052	13924	31897	48191	56836	24.9	42.8
Electricity production (GWh)	2	43	231	1549	3208	4958	5918	35.9	42.2
CHP Heat production (TJ)	-	-	1084	2055	6712	9386	11363	-	-
Total combustible fuels									
Electricity production (GWh)	16577	60101	94428	111470	100839	91294	85150	13.7	2.5
CHP Heat production (TJ)	-	..	193064	202505	203245	212654	202448

1. Coal manufactured gases and natural gas are expressed on a gross calorific value basis.

2. Includes Coking coal as well as peat and peat products, patent fuels, BKB and shale oil

Italy**Table 6c. Heat produced for sale from combustible fuels in heat plants¹**

	1990	2000	2005	2010	2012	2013	2014	90-00	00-14
Steam coal									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Heat production (TJ)	-	-	-	-	-	-	-	-	-
Lignite									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Heat production (TJ)	-	-	-	-	-	-	-	-	-
Coal manufactured gases²									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Heat production (TJ)	-	-	-	-	-	-	-	-	-
Other coal products³									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Heat production (TJ)	-	-	-	-	-	-	-	-	-
Petroleum products									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Heat production (TJ)	-	-	-	-	-	-	-	-	-
Natural gas²									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Heat production (TJ)	-	-	-	-	-	-	-	-	-
Solid biofuels									
Fuel input (TJ)	-	-	-	3391	3960	3993	3452	-	-
Heat production (TJ)	-	-	-	2237	3078	3092	2716	-	-
Industrial waste									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Heat production (TJ)	-	-	-	-	-	-	-	-	-
Municipal waste									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Heat production (TJ)	-	-	-	-	-	-	-	-	-
Biogases and liquid biofuels									
Fuel input (TJ)	-	-	-	15	15	14	29	-	-
Heat production (TJ)	-	-	-	10	12	11	24	-	-
Total combustible fuels									
Heat production (TJ)	-	-	-	2247	3090	3103	2740	-	-

1. Excludes CHP plants

2. Coal manufactured gases and natural gas are expressed on a gross calorific value basis.

3. Includes Coking coal as well as peat and peat products, patent fuels, BKB and shale oil

Italy**Table 7. Net maximum electricity generating capacity on 31 December (GW)**

	1974	1990	2000	2005	2010	2012	2013	2014
Total capacity¹	38.34	56.56	75.51	85.50	106.49	124.23	124.75	121.76
Nuclear	0.55	-	-	-	-	-	-	-
Hydro	14.87	18.77	20.35	20.99	21.52	21.88	22.01	22.10
<i>of which: pumped storage</i>	-	6.19	6.96	7.10	7.54	7.56	7.56	7.59
Geothermal	0.38	0.50	0.59	0.67	0.73	0.73	0.73	0.77
Solar PV	-	-	0.02	0.03	3.47	16.42	18.42	18.61
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	-	0.36	1.64	5.79	8.10	8.54	8.68
Other (e.g. fuel cells)	-	-	0.16	0.23	0.32	0.31	0.32	0.33
Combustible fuels	22.54	37.28	54.03	61.93	74.66	76.79	74.73	71.27
<i>of which⁽²⁾:</i>								
<i>Single-fired:</i>								
Coal and Coal products	0.94	0.03	0.02	0.06	0.03	0.03	0.03	0.03
Liquid fuels	9.52	16.44	14.56	13.03	9.89	9.87	9.73	7.64
Natural gas	0.27	0.49	5.87	15.44	32.93	34.63	33.46	33.29
Biofuels & waste	-	0.13	0.69	1.00	1.72	2.98	3.13	3.12
<i>Multi-fired:</i>								
Solid / liquid	8.01	6.38	7.69	6.34	5.70	5.70	5.67	5.43
Solid / natural gas	-	-	-	1.03	1.37	1.38	1.38	3.23
Liquid / natural gas	3.20	11.20	20.36	22.47	18.92	18.10	17.30	16.34
Solid / liquid / gas	0.60	2.62	4.85	2.56	4.09	4.09	4.03	2.19
<u>Type of generation</u>								
Steam	-	34.76	40.05	32.04	27.91	27.27	26.66	23.73
Internal combustion	-	0.24	0.83	1.10	2.23	3.59	3.77	3.98
Gas turbine	-	2.12	5.31	3.95	3.37	3.45	3.07	2.52
Combined cycle	-	0.12	7.84	24.84	41.15	42.49	41.23	41.04
Other	-	0.05	-	-	-	-	-	-
<u>Peak load</u>	..	36.26	..	55.02	56.43	54.11	53.94	51.55
Of which Autoproducers	7.70	7.42	..	4.84	6.16	4.20	4.30	4.07
Nuclear	-	-	-	-	-	-	-	-
Hydro	1.97	1.73	..	0.20	0.17	0.13	0.12	0.12
<i>of which: pumped storage</i>	-	-	-	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-	-
Solar PV	-	-	-	-	-	-	-	-
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	-	-	-	-	-	-	-
Other (e.g. fuel cells)	-	-	..	0.12	0.13	0.13	0.11	0.10
Combustible fuels	5.73	5.69	..	4.52	5.86	3.94	4.07	3.85

1. Sum of available capacity figures

2. Breakdown of electrical capacity by type of fuel are shown in the individual country chapters.

Italy**Table 8. Capacity factors (%)**

	1974	1990	2000	2005	2010	2012	2013	2014
Total plants¹	44.3	43.7	41.8	40.6	32.4	27.5	26.5	26.2
Nuclear	70.7	-	-	-	-	-	-	-
Hydro	30.2	21.3	28.6	23.3	28.9	22.9	28.4	31.1
<i>of which: pumped storage</i>	-	12.2	19.3	19.8	9.5	5.7	5.5	4.9
Geothermal	74.7	74.2	91.0	90.6	84.3	87.7	88.6	87.9
Solar PV	-	11.4	10.8 e	10.4	6.3	13.1	13.4	13.7
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	7.6	17.7	16.4	18.0	18.9	19.9	20.0
Other (e.g. fuel cells)	-	-	56.8	54.7	27.9	27.6	27.1	22.7
Combustible fuels	52.5	54.6	46.4	46.4	35.2	32.2	29.4	28.1
Of which autoproducers	46.2	40.4	..	46.7	44.2	43.7	42.7	44.1
Nuclear	-	-	-	-	-	-	-	-
Hydro	43.1	37.9	..	45.8	61.5	51.1	60.2	70.8
<i>of which: pumped storage</i>	-	-	..	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-	-
Solar PV	-	-	-	-	-	-	-	-
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	-	-	34.3	11.4	-	-	-
Other (e.g. fuel cells)	-	-	..	53.8	46.4	41.6	32.2	28.5
Combustible fuels	47.2	41.2	..	46.5	43.7	43.5	42.4	43.7

1. The capacity factor is defined as: the annual gross electricity generation (in GWh) divided by the net capacity (in GW) times 365 (days/year) times 24 (hours/day)

Italy**Table 9a. Electricity imports by origin (GWh)**

	1974	1990	2000	2005	2010	2012	2013	2014
Total imports	4214	35577	44831	50264	45987	45407	44338	46747
Total from OECD	4020	35577	44831	50264	45987	45407	44338	46747
Austria	581	1703	1958	1479	1328	1146	1506	1535
Belgium	-	-	-	-	-	-	-	-
Canada	-	-	-	-	-	-	-	-
Czech Republic	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-
France	1148	15443	16175	14616	11678	12578	12536	15520
Germany	-	-	-	-	-	-	-	-
Greece	-	-	-	713	2312	2537	1638	108
Hungary	-	-	-	-	-	-	-	-
Ireland	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-
Luxembourg	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-
Poland	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-
Slovak Republic	-	-	-	-	-	-	-	-
Slovenia	-	1346	4533	7990	7484	3849	5317	5170
Spain	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-
Switzerland	2291	17085	22165	25466	23185	25297	23341	24414
Turkey	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-
United States	-	-	-	-	-	-	-	-
Total from non-OECD	-	-	-	-	-	-	-	-
Albania	-	-	-	-	-	-	-	-
Azerbaijan	-	-	-	-	-	-	-	-
Belarus	-	-	-	-	-	-	-	-
Bulgaria	-	-	-	-	-	-	-	-
Croatia	-	-	-	-	-	-	-	-
F.Y.R. of Macedonia	-	-	-	-	-	-	-	-
Georgia	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-
Romania	-	-	-	-	-	-	-	-
Russian Federation	-	-	-	-	-	-	-	-
Serbia	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-
Turkmenistan	-	-	-	-	-	-	-	-
Ukraine	-	-	-	-	-	-	-	-
Non-specified/others	194	-						

Italy**Table 9b. Electricity exports by destination (GWh)**

	1974	1990	2000	2005	2010	2012	2013	2014
Total exports	1921	922	484	1109	1827	2304	2200	3031
Total to OECD	1801	922	484	1109	1827	2304	2200	3031
Austria	7	-	-	-	3	23	20	27
Belgium	-	-	-	-	-	-	-	-
Canada	-	-	-	-	-	-	-	-
Czech Republic	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-
France	260	181	404	706	1140	1208	858	733
Germany	-	-	-	-	-	-	-	-
Greece	-	-	-	272	67	327	95	1334
Hungary	-	-	-	-	-	-	-	-
Ireland	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-
Luxembourg	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-
Poland	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-
Slovak Republic	-	-	-	-	-	-	-	-
Slovenia	-	719	72	-	124	116	132	117
Spain	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-
Switzerland	1534	22	8	131	493	630	1095	820
Turkey	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-
United States	-	-	-	-	-	-	-	-
Total to non-OECD	-	-	-	-	-	-	-	-
Albania	-	-	-	-	-	-	-	-
Azerbaijan	-	-	-	-	-	-	-	-
Belarus	-	-	-	-	-	-	-	-
Bulgaria	-	-	-	-	-	-	-	-
Croatia	-	-	-	-	-	-	-	-
F.Y.R. of Macedonia	-	-	-	-	-	-	-	-
Georgia	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-
Romania	-	-	-	-	-	-	-	-
Russian Federation	-	-	-	-	-	-	-	-
Serbia	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-
Turkmenistan	-	-	-	-	-	-	-	-
Ukraine	-	-	-	-	-	-	-	-
Non-specified/others	120	-	-	-	-	-	-	-

Italy**Table 10a. Share of electricity in total final consumption (%)**

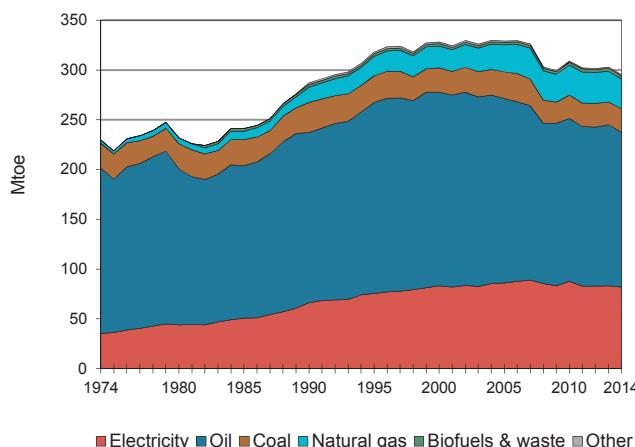
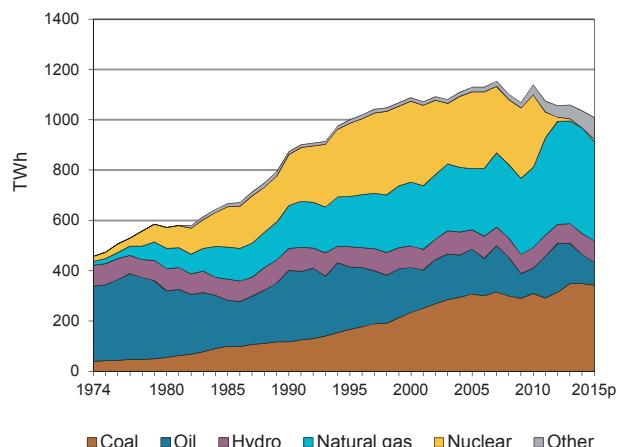
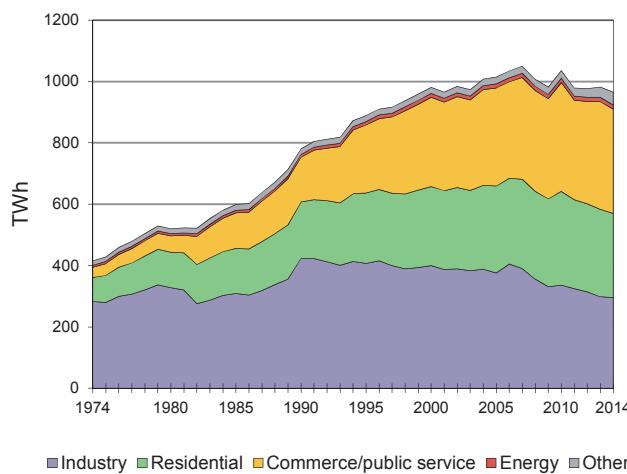
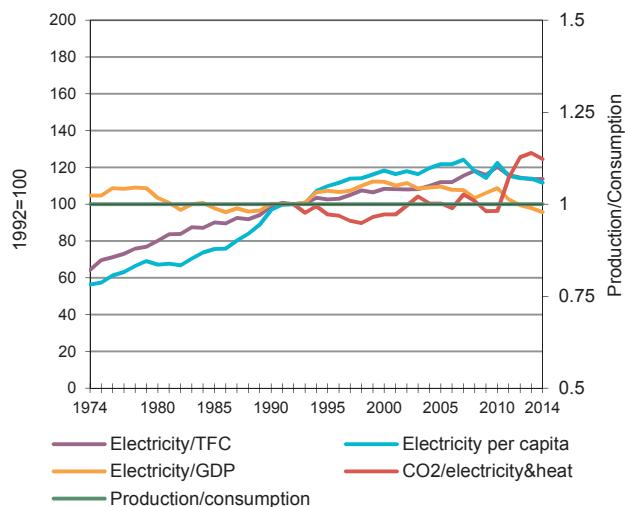
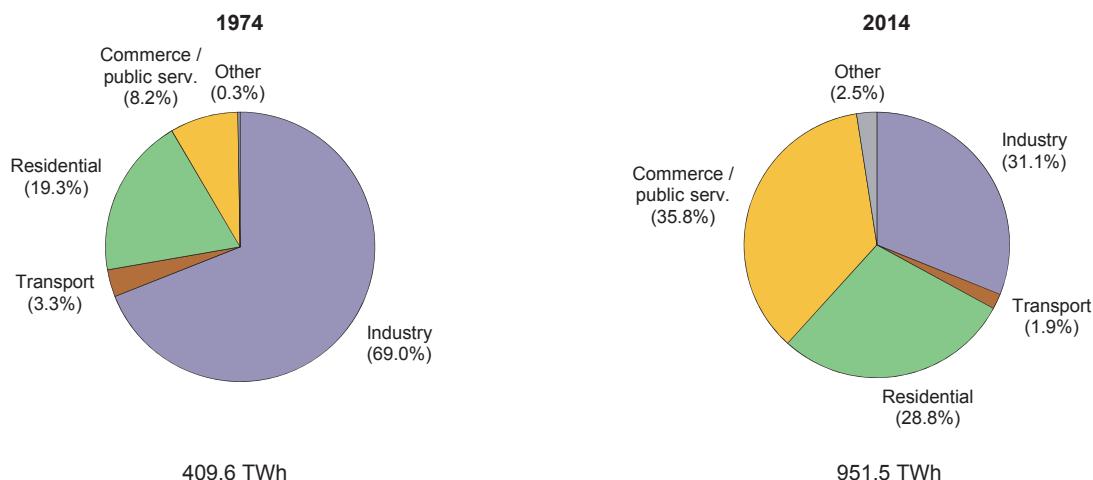
	1974	1990	2000	2005	2010	2012	2013	2014
Share of total final consumption	11.3	16.1	18.2	18.3	19.3	20.4	20.4	20.8
Industry	17.1	28.0	31.9	32.4	36.5	37.1	38.1	38.4
Iron and steel	20.9	29.5	31.2	29.3	33.6	34.1	37.6	37.8
Chem. and petrochemical	14.7	24.9	30.6	30.2	31.5	31.1	31.0	32.8
Non-ferrous metals	53.7	64.1	49.2	50.3	46.6	43.1	32.5	33.7
Non-metallic minerals	7.4	13.1	14.6	14.2	17.2	15.9	16.3	17.6
Transport equipment	100.0	100.0	100.0	76.1	65.5	75.9	78.4	76.8
Machinery	17.2	41.3	37.2	42.3	47.1	49.9	50.7	50.7
Mining and quarrying	45.1	78.1	53.9	50.7	50.1	51.7	50.7	45.6
Food and tobacco	13.0	30.6	28.7	32.5	39.6	38.8	38.7	37.6
Paper, pulp and printing	24.3	33.6	32.9	34.4	34.8	33.2	38.7	33.2
Wood and wood products	100.0	100.0	74.6	74.5	72.4	63.6	63.5	60.1
Construction	100.0	68.0	51.9	69.9	74.3	32.5	30.7	30.5
Textile and leather	26.9	42.6	36.4	32.9	40.7	39.6	39.4	39.6
Non specified/other	13.5	18.3	51.3	61.4	55.3	85.7	84.1	83.6
Transport	1.9	1.8	1.8	2.0	2.4	2.6	2.6	2.4
Rail Transport	59.0	64.8	73.5	80.0	86.0	88.2	91.8	95.9
Pipeline Transport	-	100.0	100.0	100.0	100.0	23.1	14.4	14.9
Road	-	-	-	-	0.0	0.0	0.0	0.0
Transport Non Specified	-	41.7	100.0	100.0	100.0	100.0	100.0	100.0
Other sectors	12.1	22.1	24.8	24.0	24.9	26.8	26.2	28.9
Commercial & publ. serv.	78.0	42.1	42.2	42.2	43.4	48.7	48.3	51.9
Residential	8.6	17.4	19.1	17.0	16.9	17.4	16.8	18.7
Agriculture	6.0	12.5	14.5	15.1	17.5	19.1	18.3	17.3
Fishing	-	-	-	2.0	2.7	4.4	6.2	7.6
Sector non specified	-	-	-	-	-	-	-	-

Table 10b. Share of heat in total final consumption (%)

	1974	1990	2000	2005	2010	2012	2013	2014
Share of total final consumption	-	-	-	2.2	2.5	2.7	3.1	3.2
Industry	-	-	-	7.4	10.4	9.3	9.9	10.4
Iron and steel	-	-	-	0.9	0.8	2.5	2.1	2.2
Chem. and petrochemical	-	-	-	20.4	24.7	22.1	30.2	24.2
Non-ferrous metals	-	-	-	0.0	0.0	0.1	0.1	0.1
Non-metallic minerals	-	-	-	1.1	1.3	1.9	2.2	2.9
Transport equipment	-	-	-	23.9	34.5	24.1	21.6	23.2
Machinery	-	-	-	0.5	0.5	0.7	0.5	0.5
Mining and quarrying	-	-	-	6.2	0.1	0.1	0.1	4.0
Food and tobacco	-	-	-	5.8	5.7	10.4	10.0	13.8
Paper, pulp and printing	-	-	-	26.2	21.4	35.8	27.9	37.3
Wood and wood products	-	-	-	3.0	6.3	7.4	6.8	8.8
Construction	-	-	-	0.1	0.1	0.0	0.1	0.2
Textile and leather	-	-	-	3.6	3.2	3.5	3.5	3.9
Non specified/other	-	-	-	18.0	39.6	8.5	8.1	6.4
Transport	-	-	-	-	-	-	-	-
Other sectors	-	-	-	0.4	0.4	1.6	2.2	2.4
Commercial & publ. serv.	-	-	-	0.5	0.3	0.7	1.0	1.8
Residential	-	-	-	0.5	0.4	2.0	2.7	2.8
Agriculture	-	-	-	0.0	0.1	0.6	0.8	0.9
Fishing	-	-	-	-	-	-	-	-
Sector non specified	-	-	-	-	18.4	21.9	27.1	9.6

Source: IEA/OECD World Energy Balances.

Japan

Figure 1. Total final consumption by fuel**Figure 2. Electricity generation by fuel****Figure 3. Electricity consumption by sector****Figure 4. Electricity indicators****Figure 5. Total final electricity consumption by sector**

Japan**Table 1. Energy consumption, GDP and population**

	1974	1990	2000	2010	2013	2014	2015p	74-00	00-15
TPES (Mtoe)	322.14	438.70	518.01	498.61	454.68	441.74	435.91	1.8	-1.1
GDP (billion 2005 USD)	2265.45	4553.11	5093.20	5498.72	5644.66	5642.89	5669.57	3.2	0.7
TPES/GDP ¹	0.14	0.10	0.10	0.09	0.08	0.08	0.08	-1.3	-1.8
Population (millions)	110.41	123.61	126.83	128.04	127.33	127.12	126.93	0.5	0.0
TPES/population ²	2.92	3.55	4.08	3.89	3.57	3.48	3.43	1.3	-1.1
TPES/GDP (2005 = 100)	148	100	106	94	84	82	80	-1.3	-1.8
Ele.TFC/GDP(2005=100) ³	98	91	103	100	93	91	..	0.2	..
Ele.TFC/population ⁴	3711	6241	7641	7981	7607	7488	..	2.8	..
Elec. generated (TWh) ⁵	456.98	872.56	1088.09	1139.43	1058.80	1035.53	1008.85	3.4	-0.5

Source: IEA/OECD *World Energy Balances* and OECD *Main Economic Indicators*.**Table 2. Total primary energy supply (TPES) by source**

	1974	1990	2000	2010	2013	2014	2015p	74-00	00-15
TPES (Mtoe)	322.14	438.70	518.01	498.61	454.68	441.74	435.91	1.8	-1.1
Coal	61.52	76.46	97.16	115.12	121.90	118.46	119.99	1.8	1.4
Oil	241.57	250.41	255.18	202.38	202.15	192.01	187.21	0.2	-2.0
Natural gas	6.72	44.16	65.65	86.01	106.29	107.79	101.35	9.2	2.9
Biofuels & waste	-	4.52	4.71	9.32	10.79	11.15	11.41	-	6.1
Nuclear	5.13	52.71	83.93	75.11	2.42	-	2.46	11.3	-21.0
Geothermal	0.09	1.58	3.10	2.45	2.41	2.39	2.36	14.8	-1.8
Solar, wind, tide ⁶	-	1.38	0.94 e	1.15 e	2.00 e	2.91 e	3.81	-	9.7
Hydro	7.11	7.47	7.33	7.07	6.72	7.03	7.32	0.1	-0.0
Net electricity imports ⁷	-	-	-	-	-	-	-	-	-
Heat	-	-	-	-	-	-	-	-	-

Source: IEA/OECD *World Energy Balances*.

1. In units of toe/2005 thousand US dollars.
2. In units of toe/per capita.
3. Ele.TFC = electricity total final consumption.
4. In units of kWh/per capita.
5. Electricity generated = gross production - amount of electricity produced in pumped storage plants.
6. Includes wave, ocean and other (e.g. fuel cells).
7. Net Imports = total imports - total exports

Japan

Table 3a. Summary electricity production and consumption¹ (TWh)

	1974	1990	2000	2005	2010	2013	2014	2015e
Gross production	459.08	881.50	1099.67	1139.25	1147.90	1065.62	1040.68	1014.93
- Own use by power plant	19.01	27.12	33.34	42.92	42.38	37.38	33.80	-
Net production	440.06	854.38	1066.33	1096.33	1105.52	1028.25	1006.88	-
- Used for heat pumps	-	-	-	-	-	-	-	-
- Used for electric boilers	-	0.34	1.10	1.15	1.15	1.08	1.08	1.00
- Used for pumped storage	2.07	10.05	14.76	13.46	9.83	7.85	6.86 e	5.93
+ Imports	-	-	-	-	-	-	-	-
- Exports	-	-	-	-	-	-	-	-
Electrical energy supplied	437.99	843.99	1050.47	1081.72	1094.55	1019.32	998.94	..
- Transmission & distr. losses	22.05	40.76	46.95	48.19	47.15	47.52	45.41	..
- Statistical difference	-	22.94	22.44	18.77	11.82	-10.47	-11.34	..
Total consumption	415.94	780.29	981.08	1014.75	1035.58	982.27	964.87	..
Energy industry consumption²	6.32	9.15	12.26	13.23	14.02	13.96	13.38	..
Coal Mines	1.59	-	-	-	-	-	-	..
Oil + Gas Extraction	-	-	-	-	-	-	-	..
Patent Fuel Plants	-	-	-	-	-	-	-	..
Coke Ovens	-	0.95	1.14	1.21	1.71	1.82	1.74	..
BKB plants	-	-	-	-	-	-	-	..
Gas Works	-	-	-	-	-	-	-	..
Blast Furnaces	-	-	-	-	-	-	-	..
Oil Refineries	4.73	7.18	10.21	11.25	11.60	11.42	10.91	..
Nuclear Industry	-	-	-	-	-	-	-	..
Coal Liquefaction Plants	-	-	-	-	-	-	-	..
LNG/Regasification Plants	-	1.02	0.91	0.77	0.70	0.72	0.74	..
Energy - Non Specified	-	-	-	-	-	-	-	..
Final consumption	409.61	771.14	968.82	1001.53	1021.57	968.32	951.49	..
Industry	282.61	423.09	399.90	376.18	336.42	298.17	295.62	..
Iron and steel	71.82	69.28	66.28	67.59	66.34	66.31	65.80	..
Chem. and petrochemical	49.21	66.22	66.44	60.77	55.63	49.40	48.85	..
Non-ferrous metals	28.31	13.12	12.16	11.60	9.69	9.09	8.58	..
Non-metallic minerals	12.98	34.49	31.42	27.35	23.89	22.09	21.87	..
Transport equipment	9.35	22.68	26.29	29.16	24.73	22.62	22.38	..
Machinery	7.69	77.37	63.23	61.92	50.50	41.10	40.30	..
Mining and quarrying	1.76	4.25	2.27	1.82	1.66	1.75	1.75	..
Food and tobacco	4.67	25.99	31.69	29.50	28.60	23.52	23.57	..
Paper, pulp and printing	19.60	36.34	38.60	36.05	31.53	29.32	28.86	..
Wood and wood products	-	32.89	28.60	20.24	17.26	15.11	15.11	..
Construction	-	10.76	9.47	7.33	9.49	6.99	6.99	..
Textile and leather	5.97	12.14	7.35	5.35	5.45	3.22	3.22	..
Non specified/other	71.26	17.56	16.11	17.50	11.64	7.65	8.35	..
Transport	13.45	16.37	18.16	19.06	18.76	17.86	17.83	..
Rail Transport	13.45	16.37	18.16	19.06	18.76	17.86	17.83	..
Pipeline Transport	-	-	-	-	-	-	-	..
Road	-	-	-	-	-	-	-	..
Transport Non Specified	-	-	-	-	-	-	-	..
Commercial & publ. serv.	78.88	184.15	257.85	283.08	305.27	285.18	273.94	..
Residential	33.55	145.79	290.76	320.05	355.01	351.21	340.63	..
Agriculture	1.12	1.28	1.43	1.38	1.95	2.39	2.39	..
Fishing	-	0.48	0.38	0.29	0.38	0.37	0.37	..
Sector non specified	-	- e	0.35 e	1.49 e	3.78 e	13.13 e	20.70 e	..

1. Electricity generation from main activity producer power plants and autoproducers.

2. Energy industry consumption = electricity consumed by transformation industries for heating, traction and lighting purposes;

excludes own use by power plant and electricity used for heat pumps, electric boilers and pumped storage.

Japan

Table 3b. Summary heat production and consumption¹ (TJ)

	1974	1990	2000	2005	2010	2013	2014	2015e
Gross production	1867	8464	23460	26185	25028	21952	21952	21310
- Own use by power plant	-	103	812	1113	1138	1015	1015	-
Net production	1867	8361	22648	25072	23890	20937	20937	-
- Used for electricity production	-	-	-	-	-	-	-	-
+ Imports	-	-	-	-	-	-	-	-
- Exports	-	-	-	-	-	-	-	-
Heat energy supplied	1867	8361	22648	25072	23890	20937	20937	..
- Transmission & distr. losses	-	-	-	-	-	-	-	..
- Statistical difference	-	-	-	-	-528	-1965	-1965	..
Total consumption	1867	8361	22648	25072	24418	22902	22902	..
Energy industry consumption²	-	-	-	-	-	-	-	..
Coal Mines	-	-	-	-	-	-	-	..
Oil + Gas Extraction	-	-	-	-	-	-	-	..
Patent Fuel Plants	-	-	-	-	-	-	-	..
Coke Ovens	-	-	-	-	-	-	-	..
BKB plants	-	-	-	-	-	-	-	..
Gas Works	-	-	-	-	-	-	-	..
Blast Furnaces	-	-	-	-	-	-	-	..
Oil Refineries	-	-	-	-	-	-	-	..
Nuclear Industry	-	-	-	-	-	-	-	..
Coal Liquefaction Plants	-	-	-	-	-	-	-	..
LNG/Regasification Plants	-	-	-	-	-	-	-	..
Energy - Non Specified	-	-	-	-	-	-	-	..
Final consumption	1867	8361	22648	25072	24418	22902	22902	..
Industry	-	-	-	-	-	-	-	..
Iron and steel	-	-	-	-	-	-	-	..
Chem. and petrochemical	-	-	-	-	-	-	-	..
Non-ferrous metals	-	-	-	-	-	-	-	..
Non-metallic minerals	-	-	-	-	-	-	-	..
Transport equipment	-	-	-	-	-	-	-	..
Machinery	-	-	-	-	-	-	-	..
Mining and quarrying	-	-	-	-	-	-	-	..
Food and tobacco	-	-	-	-	-	-	-	..
Paper, pulp and printing	-	-	-	-	-	-	-	..
Wood and wood products	-	-	-	-	-	-	-	..
Construction	-	-	-	-	-	-	-	..
Textile and leather	-	-	-	-	-	-	-	..
Non specified/other	-	-	-	-	-	-	-	..
Transport	-	-	-	-	-	-	-	..
Commercial & publ. serv.	1867	7077	21342	23746	23136	21732	21732	..
Residential	-	1284	1306	1326	1282	1170	1170	..
Agriculture	-	-	-	-	-	-	-	..
Fishing	-	-	-	-	-	-	-	..
Sector non specified	-	-	-	-	-	-	-	..

1. Heat generation from main activity producer power plants and autoproducers.

2. Energy industry consumption = electricity consumed by transformation industries for heating, traction and lighting purposes;

excludes own use by power plant and electricity used for heat pumps, electric boilers and pumped storage.

Japan

Table 4a. Gross electricity production by source (TWh)

	1974	1990	2000	2010	2013	2014	2015e	74-00	00-15
Total plants gross production¹	459.08	881.50	1099.67	1147.90	1065.62	1040.68	1014.93	3.4	-0.5
Nuclear	19.70	202.27	322.05	288.23	9.30	-	9.44	11.3	-21.0
Hydro	84.78	95.84	96.82	90.68	84.92	86.94	91.19	0.5	-0.4
- Of which pumped storage	2.10	8.94	11.58	8.47	6.82	5.15	6.08	6.8	-4.2
Geothermal	0.10	1.74	3.35	2.65	2.60	2.58	2.55	14.5	-1.8
Solar	-	0.00 e	0.35 e	3.80 e	14.28 e	24.51 e	35.97 e	-	36.3
Wind	-	-	0.11	3.96	4.29	5.04	5.29	-	29.6
Combustible fuels	354.50	581.65	677.00	758.58	950.24	921.61	870.50	2.5	1.7
- Coal	..	117.71	233.77	309.59	348.87	348.83	342.72	..	2.6
- Oil	..	283.73	179.35	100.15	160.20	116.44	90.81	..	-4.4
- Natural gas	..	170.64	253.64	318.61	407.60	420.83	395.19	..	3.0
- Biofuels & waste	..	9.57	10.25	30.23	33.57	35.52	41.77 e	..	9.8
Other ²	-	-	-	-	-	-	-	-	-
Of which autoproducers	61.32	123.91	158.99	165.95	167.91	176.47	..	3.7	..
Nuclear	-	0.87	0.71	-	-	-	..	-	..
Hydro	6.13	7.09	7.49	16.51	16.32	16.69	..	0.8	..
- Of which pumped storage	-	-	-	-	-	-	..	-	..
Geothermal	-	0.26	0.23	0.16	0.16	0.16	..	-	..
Solar	-	0.00 e	0.35 e	3.80 e	14.20 e	24.42 e	..	-	-
Wind	-	-	0.11	3.92	4.24	5.00	..	-	..
Combustible fuels	55.20	115.69	150.10	141.56	132.99	130.21	..	3.9	..
- Coal	..	23.23	40.52	44.05	45.76	45.03
- Oil	..	77.85	85.55	35.14	31.07	27.75
- Natural gas	..	5.05	13.79	37.71	30.52	30.02
- Biofuels & waste	..	9.57	10.25	24.66	25.64	27.40
Other ²	-	-	-	-	-	-	..	-	..

Table 4b. Gross heat production by source (PJ)

	1974	1990	2000	2010	2013	2014	2015e	74-00	00-15
Total plants heat generation³	1.87	8.46	23.46	25.03	21.95	21.95	21.31	10.2	-0.6
Nuclear	-	-	-	-	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-	-	-
Combustible fuels	1.87	5.87	13.42	15.37	13.70	13.70	14.90	7.9	0.7
- Coal	..	0.53	0.60	-	-	-	-	..	-
- Oil	..	1.63	1.42	0.80	0.08	0.08	0.37	..	-8.6
- Natural gas	..	3.66	11.26	14.54 e	13.62 e	13.62 e	14.53	..	1.7
- Biofuels & waste	..	0.05	0.15	0.02	-	-	-	..	-
Chemical processes	-	-	-	-	-	-	-	-	-
Heat pumps	-	-	-	-	-	-	-	-	-
Electric boilers	-	1.23	3.94	4.13	3.88	3.88	3.61	-	-0.6
Other sources	-	1.36	6.10	5.54	4.38	4.38	2.80	-	-5.0
Of which Autoproducers	-	-	-	-	-	-	..	-	..
Nuclear	-	-	-	-	-	-	..	-	..
Geothermal	-	-	-	-	-	-	..	-	..
Combustible fuels	-	-	-	-	-	-	..	-	..
- Coal	..	-	-	-	-	-
- Oil	..	-	-	-	-	-
- Natural gas	..	-	-	-	-	-
- Biofuels & waste	..	-	-	-	-	-
Chemical processes	-	-	-	-	-	-	..	-	..
Heat pumps	-	-	-	-	-	-	..	-	..
Electric boilers	-	-	-	-	-	-	..	-	..
Other sources	-	-	-	-	-	-	..	-	..

1. Electricity generated from main activity producer power plants and autoproducers.

2. Includes wave, ocean and other sources (e.g. fuel cells, electricity from chemical heat).

3. Total heat generation = gross production of heat from main activity producer + heat sold in autoproducers.

Japan**Table 5. Net electricity production by autoproducers (GWh)**

	1974	1990	2000	2010	2012	2013	2014	74-00	00-14
Total	51586	123906	158985	165949	163002	167907	176472	4.4	0.7
Total energy	-	4296	10067	17986	17226	17348	15492	-	3.1
Coal mines	-	-	-	-	-	-	-	-	-
Oil and gas extraction	-	-	-	-	-	-	-	-	-
Patent fuel plants	-	-	-	-	-	-	-	-	-
Coke ovens	-	-	-	-	-	-	-	-	-
Gas works	-	-	-	-	-	-	-	-	-
BKB	-	4296	10067	17986	17226	17348	15492	-	3.1
Oil refineries	-	-	-	-	-	-	-	-	-
Energy non specified/other	-	-	-	-	-	-	-	-	-
Total industry	51586	106464	125940	126786	123701	123153	125489	3.5	-0.0
Iron and steel	-	16115	24014	25003	26012	26247	25258	-	0.4
Chemical and petrochemical	-	36078	37738	29439	28082	28494	28334	-	-2.0
Non-ferrous metals	-	2805	1811	1443	1344	1312	1443	-	-1.6
Non-metallic minerals	-	10760	13681	13118	12482	13156	13281	-	-0.2
Transport equipment	-	173	259	718	475	314	309	-	1.3
Machinery	-	4096	5126	4395	3654	3320	3095	-	-3.5
Mining and quarrying	-	476	228	75	12	-	-	-	-
Food and tobacco	-	7605	9632	14440	12375	8541	8598	-	-0.8
Pulp and printing	-	19249	26668	21277	21840	24109	23932	-	-0.8
Wood and wood products	-	460	399	25	1	1	1	-	-34.8
Construction	-	113	81	77	-	-	-	-	-
Textile and leather	-	1764	1384	199	242	119	118	-	-16.1
Non specified/other industries	51586	6770	4919	16577	17182	17540	21120	-8.6	11.0
Total transport	-	-	-	-	-	-	-	-	-
Rail	-	-	-	-	-	-	-	-	-
Pipeline	-	-	-	-	-	-	-	-	-
Transport non specified	-	-	-	-	-	-	-	-	-
Other	-	13146	22978	21177	22075	27406	35491	-	3.2
Commerce and pub. services	-	13136	22626	17398	15272	14277	14793	-	-3.0
Residential	-	-	-	-	-	-	-	-	-
Agriculture	-	-	-	1	-	-	-	-	-
Fishing	-	10	7	-	-	-	-	-	-
Sector non specified	-	-	345	3778	6803	13129	20698	-	34.0

Notes: Data reported in this table prior to 1990 may refer to combustible fuels only.

Japan

Table 6a. Electricity production from combustible fuels in electricity plants¹

	1990	2000	2005	2010	2012	2013	2014	90-00	00-14
Steam coal									
Fuel input (1000 t)	31340	65245	92958	91321	93898	103518	101841	7.6	3.2
Fuel input (TJ)	760029	1668853	2311995	2256346	2320515	2620663	2578211	8.2	3.2
Electricity production (GWh)	84648	192058	269184	270016	277264	310441	310382	8.5	3.5
Lignite									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
Coal manufactured gases²									
Fuel input (TJ)	286248	359336	325050	332122	310559	330900	327223	2.3	-0.7
Electricity production (GWh)	31367	40503	37654	39251	36767	38418	38442	2.6	-0.4
Other coal products³									
Fuel input (1000 t)	489	345	184	89	6	4	2	-3.4	-30.8
Fuel input (TJ)	14788	10580	5402	2627	178	105	48	-3.3	-32.0
Electricity production (GWh)	1691	1207	647	319	22	12	6	-3.3	-31.5
Oil and petroleum products									
Fuel input (1000 t)	57718	35296	34504	19095	37060	30640	22000	-4.8	-3.3
Fuel input (TJ)	2444984	1495284	1444956	798815	1572640	1304096	948729	-4.8	-3.2
Electricity production (GWh)	283733	179347	178162	100147	195187	160196	116435	-4.5	-3.0
Natural gas²									
Fuel input (TJ)	1575926	2254770	2142477	2720318	3503837	3518496	3573682	3.6	3.3
Electricity production (GWh)	170642	253642	243805	318613	409113	407595	420825	4.0	3.7
Solid biofuels									
Fuel input (TJ)	79678	84836	119366	228706	238841	257142	261309	0.6	8.4
Electricity production (GWh)	9570	10150	12007	25546	26833	28238	28928	0.6	7.8
Industrial waste									
Fuel input (TJ)	-	814	1718	12759	19754	20894	20736	-	26.0
Electricity production (GWh)	-	95	211	882	1663	1688	1765	-	23.2
Municipal waste									
Fuel input (TJ)	-	-	-	32512	28672	31368	40954	-	-
Electricity production (GWh)	-	-	-	3804	3338	3648	4830	-	-
Biogases and liquid biofuels									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
Total combustible fuels									
Electricity production (GWh)	581651	677002	741670	758578	950187	950236	921613	1.5	2.2

1. Excludes CHP plants.

2. Coal manufactured gases and natural gas are expressed on a gross calorific value basis.

3. Includes Coking coal as well as peat and peat products, patent fuels, BKB and shale oil

Japan**Table 6c. Heat produced for sale from combustible fuels in heat plants¹**

	1990	2000	2005	2010	2012	2013	2014	90-00	00-14
Steam coal									
Fuel input (1000 t)	32	27	25	-	-	-	-	-1.7	-
Fuel input (TJ)	804	690	617	-	-	-	-	-1.5	-
Heat production (TJ)	530	595	528	-	-	-	-	1.2	-
Lignite									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Heat production (TJ)	-	-	-	-	-	-	-	-	-
Coal manufactured gases²									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Heat production (TJ)	-	-	-	-	-	-	-	-	-
Other coal products³									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Heat production (TJ)	-	-	-	-	-	-	-	-	-
Petroleum products									
Fuel input (1000 t)	57	36	23	18	4	2	2	-4.5	-18.7
Fuel input (TJ)	2473	1653	1027	812	164	82	82	-3.9	-19.3
Heat production (TJ)	1630	1424	878	803	173	78	78	-1.3	-18.7
Natural gas²									
Fuel input (TJ)	6169	14515	18102	17003	16035	15929	15929	8.9	0.7
Heat production (TJ)	3660	11255	13933	14538 e	13710 e	13619 e	13619 e	11.9	1.4
Solid biofuels									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Heat production (TJ)	-	-	-	-	-	-	-	-	-
Industrial waste									
Fuel input (TJ)	80	172	125	25	-	-	-	8.0	-
Heat production (TJ)	53	148	106	24	-	-	-	10.8	-
Municipal waste									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Heat production (TJ)	-	-	-	-	-	-	-	-	-
Biogases and liquid biofuels									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Heat production (TJ)	-	-	-	-	-	-	-	-	-
Total combustible fuels									
Heat production (TJ)	5873	13422	15445	15365 e	13883 e	13697 e	13697 e	8.6	0.1

1. Excludes CHP plants

2. Coal manufactured gases and natural gas are expressed on a gross calorific value basis.

3. Includes Coking coal as well as peat and peat products, patent fuels, BKB and shale oil

Japan

Table 7. Net maximum electricity generating capacity on 31 December (GW)

	1974	1990	2000	2005	2010	2012	2013	2014
Total capacity¹	104.21	194.73	260.49	277.32	287.03	295.19	302.71	315.32
Nuclear	3.91	31.65	45.25	49.58	48.96	46.15	44.26	44.26
Hydro	23.55	37.83	46.32	47.29	47.74	48.93	48.93	49.60
<i>of which: pumped storage</i>	-	17.01	24.31	25.16	25.37	26.74	26.74	27.35
Geothermal	0.02	0.27	0.53	0.54	0.54	0.51	0.51	0.51
Solar PV	-	- e	0.33 e	1.42 e	3.62 e	6.63 e	13.60 e	23.34
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	-	0.08	1.23	2.29	2.56	2.65	2.75
Other (e.g. fuel cells)	-	-	-	-	-	-	-	-
Combustible fuels	76.74	124.98	167.97	177.27	183.88	190.41	192.76	194.86
<i>of which⁽²⁾:</i>								
<i>Single-fired:</i>								
Coal and Coal products	8.84	7.66	25.42	34.52	35.94	35.94	35.94	35.94
Liquid fuels	64.80	50.83	51.12	40.68	41.16	41.16	41.16	41.16
Natural gas	3.10	15.62	35.27	39.36	46.68	46.68	46.68	46.68
Biofuels & waste	-
<i>Multi-fired:</i>								
Solid / liquid	-	32.81	26.36	24.67	11.30	16.02	18.13	20.00
Solid / natural gas	-
Liquid / natural gas	-
Solid / liquid / gas	-
<i>Type of generation</i>								
Steam	9.67	116.14	140.23	162.66	169.26	171.88	174.36	180.03
Internal combustion	0.77	2.07	4.82	6.61	5.56	5.73	5.74	5.53
Gas turbine	0.22	3.12	5.36	6.50	7.56	11.30	11.15	7.80
Combined cycle	-	3.66	16.24	-	-	-	-	-
Other	-	-	1.32	1.50	1.50	1.50	1.50	1.50
<i>Peak load</i>	..	143.72	173.07	177.70	177.75	155.95	159.07	159.07
Of which Autoproducers	11.74	19.66	31.89	42.13	59.03	63.97	71.24	81.29
Nuclear	0.01	0.17	0.17	-	-	-	-	-
Hydro	1.07	1.38	1.47	1.40	4.37	4.28	4.26	4.19
<i>of which: pumped storage</i>	-	-	-	-	-	-	-	-
Geothermal	-	0.04	0.04	0.04	0.04	0.04	0.04	0.04
Solar PV	-	- e	0.33	1.42	3.61	6.57	13.53	23.26
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	-	0.08	1.22	2.21	2.48	2.56	2.72
Other (e.g. fuel cells)	-	-	-	-	-	-	-	-
Combustible fuels	10.66	18.08	29.81	38.05	48.81	50.61	50.86	51.08

1. Sum of available capacity figures

2. Breakdown of electrical capacity by type of fuel are shown in the individual country chapters.

Japan**Table 8. Capacity factors (%)**

	1974	1990	2000	2005	2010	2012	2013	2014
Total plants¹	50.3	51.7	48.2	46.9	45.7	41.2	40.2	37.7
Nuclear	57.6	73.0	81.3	70.2	67.2	3.9	2.4	-
Hydro	41.1	28.9	23.9	20.8	21.7	19.5	19.8	20.0
<i>of which: pumped storage</i>	-	6.0	5.4	5.8	4.9	4.4	3.7	2.7
Geothermal	57.1	73.6	71.7	68.8	56.3	58.2	57.9	57.9
Solar PV	-	11.4 e	12.0 e					
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	-	14.7	16.3	19.7	21.0	18.5	20.9
Other (e.g. fuel cells)	-	-	-	-	-	-	-	-
Combustible fuels	52.7	53.1	46.0	47.8	47.1	57.0	56.3	54.0
Of which autoproducers	59.6	72.0	56.9	46.1	32.1	29.1	26.9	24.8
Nuclear	-	60.1	49.3	-	-	-	-	-
Hydro	65.5	58.7	58.1	53.8	43.1	43.4	43.8	45.4
<i>of which: pumped storage</i>	-	-	-	-	-	-	-	-
Geothermal	-	83.5	72.9	59.8	53.2	48.6	52.2	51.5
Solar PV	-	11.4 e	12.0 e					
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	-	14.9	16.3	20.3	21.5	18.9	21.0
Other (e.g. fuel cells)	-	-	-	-	-	-	-	-
Combustible fuels	59.1	73.1	57.5	48.0	33.1	30.5	29.9	29.1

1. The capacity factor is defined as: the annual gross electricity generation (in GWh) divided by the net capacity (in GW) times 365 (days/year) times 24 (hours/day)

Japan

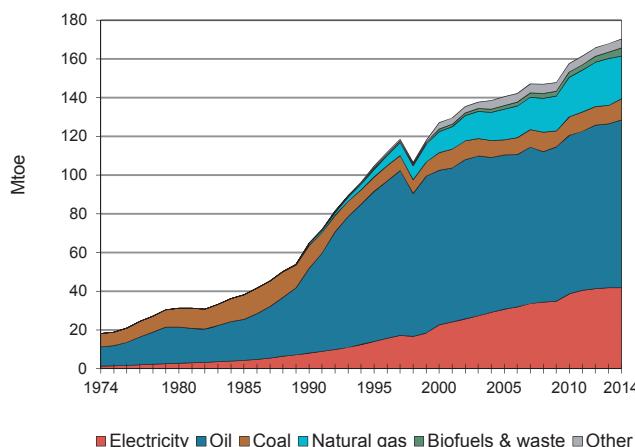
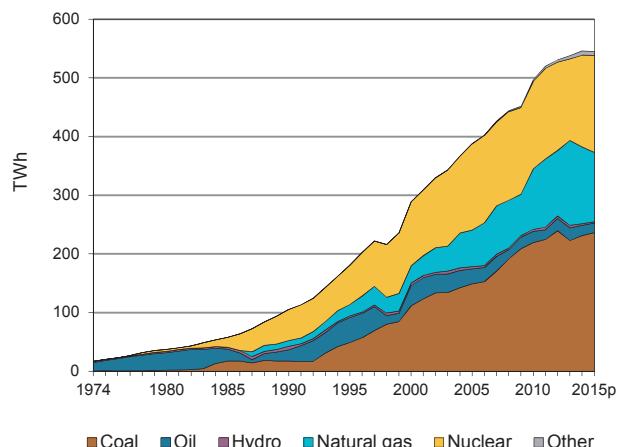
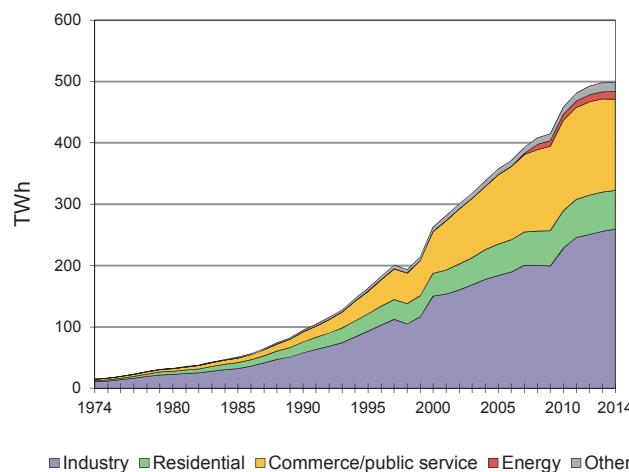
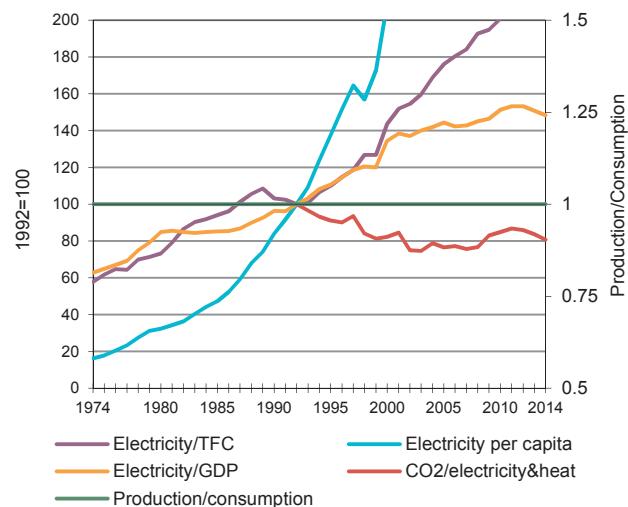
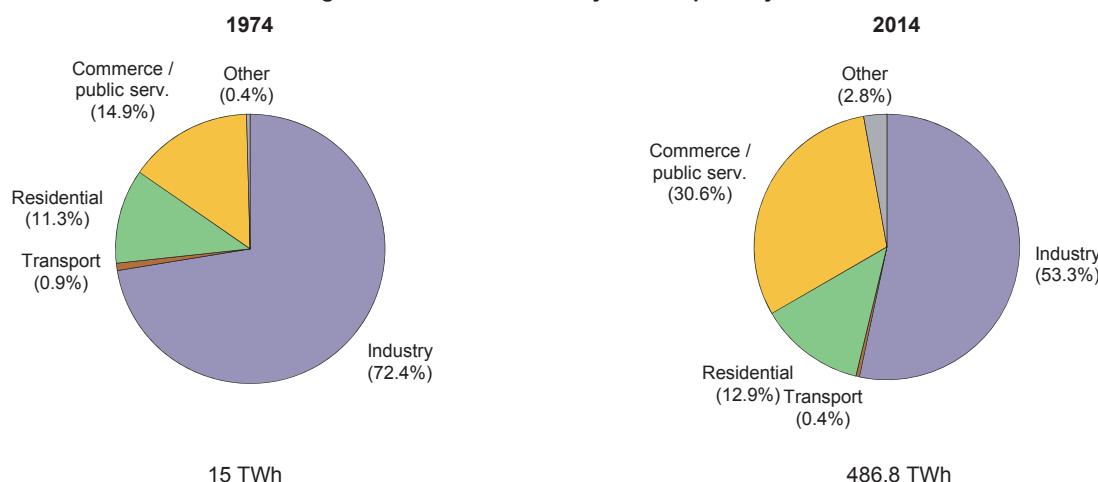
Table 10a. Share of electricity in total final consumption (%)

	1974	1990	2000	2005	2010	2012	2013	2014
Share of total final consumption	15.3	23.1	25.4	26.2	28.4	27.5	27.5	27.7
Industry	23.7	33.2	34.5	32.4	31.6	30.1	29.3	28.9
Iron and steel	18.2	23.3	26.5	23.2	25.3	24.9	27.5	25.8
Chem. and petrochemical	30.6	26.6	29.0	27.7	26.3	25.1	22.1	22.2
Non-ferrous metals	61.9	35.8	43.6	42.2	49.2	47.0	45.1	44.3
Non-metallic minerals	10.1	20.7	21.2	21.7	21.8	19.0	17.1	17.3
Transport equipment	100.0	86.2	81.5	80.8	73.9	80.3	78.7	78.6
Machinery	100.0	57.3	60.6	58.7	57.0	53.0	54.8	55.2
Mining and quarrying	30.2	27.1	23.7	22.0	25.7	23.6	23.9	24.3
Food and tobacco	10.5	41.4	31.8	27.4	28.4	25.7	29.4	29.4
Paper, pulp and printing	29.3	31.0	32.0	32.0	30.2	32.0	30.1	29.7
Wood and wood products	-	93.7	94.0	91.4	92.2	89.7	89.4	89.4
Construction	-	18.6	20.8	19.4	25.7	20.5	20.3	20.3
Textile and leather	9.1	38.6	38.6	29.5	16.4	13.6	13.5	13.5
Non specified/other	31.4	40.9	37.8	37.4	28.2	23.6	19.0	20.4
Transport	2.8	2.1	1.9	2.1	2.2	2.1	2.1	2.1
Rail Transport	41.9	82.2	87.1	88.5	89.6	89.3	89.4	89.4
Pipeline Transport	-	-	-	-	-	-	-	-
Road	-	-	-	-	-	-	-	-
Transport Non Specified	-	-	-	-	-	-	-	-
Other sectors	19.1	37.7	46.1	48.4	55.2	54.6	54.2	54.8
Commercial & publ. serv.	14.6	36.0	47.9	49.3	58.4	57.4	55.2	55.7
Residential	32.0	41.1	45.1	48.0	52.4	52.0	52.8	52.9
Agriculture	3.8	30.8	30.8	30.7	33.2	44.4	41.9	42.0
Fishing	-	2.2	3.9	3.6	5.3	5.5	5.1	5.1
Sector non specified	-	-	100.0 e					

Table 10b. Share of heat in total final consumption (%)

	1974	1990	2000	2005	2010	2012	2013	2014
Share of total final consumption	0.0	0.1	0.2	0.2	0.2	0.2	0.2	0.2
Industry	-	-	-	-	-	-	-	-
Iron and steel	-	-	-	-	-	-	-	-
Chem. and petrochemical	-	-	-	-	-	-	-	-
Non-ferrous metals	-	-	-	-	-	-	-	-
Non-metallic minerals	-	-	-	-	-	-	-	-
Transport equipment	-	-	-	-	-	-	-	-
Machinery	-	-	-	-	-	-	-	-
Mining and quarrying	-	-	-	-	-	-	-	-
Food and tobacco	-	-	-	-	-	-	-	-
Paper, pulp and printing	-	-	-	-	-	-	-	-
Wood and wood products	-	-	-	-	-	-	-	-
Construction	-	-	-	-	-	-	-	-
Textile and leather	-	-	-	-	-	-	-	-
Non specified/other	-	-	-	-	-	-	-	-
Transport	-	-	-	-	-	-	-	-
Other sectors	0.1	0.3	0.5	0.6	0.6	0.5	0.5	0.6
Commercial & publ. serv.	0.2	0.5	1.0	1.0	1.1	1.0	1.0	1.0
Residential	-	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Agriculture	-	-	-	-	-	-	-	-
Fishing	-	-	-	-	-	-	-	-
Sector non specified	-	-	-	-	-	-	-	-

Source: IEA/OECD World Energy Balances.

Korea**Figure 1. Total final consumption by fuel****Figure 2. Electricity generation by fuel****Figure 3. Electricity consumption by sector****Figure 4. Electricity indicators****Figure 5. Total final electricity consumption by sector**

Korea**Table 1. Energy consumption, GDP and population**

	1974	1990	2000	2010	2013	2014	2015p	74-00	00-15
TPES (Mtoe)	23.43	92.91	188.16	250.02	263.83	268.41	276.16	8.3	2.6
GDP (billion 2005 USD)	87.05	362.89	710.04	1094.50	1194.43	1233.97	1266.20	8.4	3.9
TPES/GDP ¹	0.27	0.26	0.26	0.23	0.22	0.22	0.22	-0.1	-1.3
Population (millions)	34.69	42.87	47.01	49.41	50.22	50.42	50.67	1.2	0.5
TPES/population ²	0.68	2.17	4.00	5.06	5.25	5.32	5.45	7.1	2.1
TPES/GDP (2005 = 100)	115	109	113	97	94	93	93	-0.1	-1.3
Ele.TFC/GDP(2005=100) ³	43	65	93	103	102	99	..	3.0	..
Ele.TFC/population ⁴	433	2202	5599	9097	9703	9658	..	10.3	..
Elec. generated (TWh) ⁵	16.84	105.37	288.53	496.72	537.89	545.87	545.04	11.5	4.3

Source: IEA/OECD *World Energy Balances* and OECD *Main Economic Indicators*.

Table 2. Total primary energy supply (TPES) by source

	1974	1990	2000	2010	2013	2014	2015p	74-00	00-15
TPES (Mtoe)	23.43	92.91	188.16	250.02	263.83	268.41	276.16	8.3	2.6
Coal	8.64	25.38	41.95	73.45	77.88	81.70	84.40	6.3	4.8
Oil	14.62	49.73	99.04	95.11	96.57	96.34	102.81	7.6	0.2
Natural gas	-	2.72	17.01	38.63	47.60	43.12	39.34	-	5.8
Biofuels & waste	-	0.73	1.38	3.48	4.70	5.59	5.87	-	10.1
Nuclear	-	13.78	28.40	38.73	36.17	40.76	42.94	-	2.8
Geothermal	-	-	-	0.03	0.09	0.11	0.12	-	-
Solar, wind, tide ⁶	-	0.01	0.04	e	0.18	0.36	0.47	0.49	-
Hydro	0.16	0.55	0.34	0.32	0.37	0.24	0.20	2.9	-3.7
Net electricity imports ⁷	-	-	-	-	-	-	-	-	-
Heat	-	-	-	-	0.09	0.09	0.09	-	-

Source: IEA/OECD *World Energy Balances*.

1. In units of toe/2005 thousand US dollars.
2. In units of toe/per capita.
3. Ele.TFC = electricity total final consumption.
4. In units of kWh/per capita.
5. Electricity generated = gross production - amount of electricity produced in pumped storage plants.
6. Includes wave, ocean and other (e.g. fuel cells).
7. Net Imports = total imports - total exports

Korea

Table 3a. Summary electricity production and consumption¹ (TWh)

	1974	1990	2000	2005	2010	2013	2014	2015e
Gross production	16.84	105.37 e	290.13	389.39	499.51	542.00	550.93	548.69
- Own use by power plant	0.90 e	5.08	12.44	16.60	19.12	20.53	20.93	-
Net production	15.94 e	100.29 e	277.69	372.80	480.39	521.47	530.01	-
- Used for heat pumps	-	-	-	-	-	-	-	-
- Used for electric boilers	-	-	-	-	-	-	-	-
- Used for pumped storage	-	2.27	2.12	1.98	3.66	5.41	6.64	4.82
+ Imports	-	-	-	-	-	-	-	-
- Exports	-	-	-	-	-	-	-	-
Electrical energy supplied	15.94 e	98.02 e	275.57	370.82	476.73	516.06	523.36	..
- Transmission & distr. losses	0.91 e	3.63	12.45	13.73	18.03	18.31	18.27	..
- Statistical difference	-	0.00 e	-	-0.54	0.22	-0.41	6.05	..
Total consumption	15.02	94.38	263.12	357.63	458.47	498.16	499.05	..
Energy industry consumption²	-	-	-	-	9.13	11.04	12.21	..
Coal Mines	-	-	-	-	-	-	-	..
Oil + Gas Extraction	-	-	-	-	-	-	-	..
Patent Fuel Plants	-	-	-	-	-	-	-	..
Coke Ovens	-	-	-	-	-	-	-	..
BKB plants	-	-	-	-	-	-	-	..
Gas Works	-	-	-	-	-	-	-	..
Blast Furnaces	-	-	-	-	-	-	-	..
Oil Refineries	-	-	-	-	9.13	11.04	12.21	..
Nuclear Industry	-	-	-	-	-	-	-	..
Coal Liquefaction Plants	-	-	-	-	-	-	-	..
LNG/Regasification Plants	-	-	-	-	-	-	-	..
Energy - Non Specified	-	-	-	-	-	-	-	..
Final consumption	15.02	94.38	263.12	357.63	449.35	487.13	486.83	..
Industry	10.88	57.79	150.39	183.95	228.12	255.70	259.61	..
Iron and steel	1.62	10.06	35.89	43.21	49.27	53.41	55.43	..
Chem. and petrochemical	2.06	10.92	34.04	39.90	40.86	46.92	47.72	..
Non-ferrous metals	-	-	0.31	0.40	8.75	9.10	8.71	..
Non-metallic minerals	1.31	5.63	9.03	9.98	11.75	11.52	11.67	..
Transport equipment	-	-	9.37	14.71	20.21	22.98	24.01	..
Machinery	0.81	12.09	25.14	38.92	59.30	72.35	73.25	..
Mining and quarrying	0.42	1.01	1.00	1.32	1.68	1.48	1.57	..
Food and tobacco	0.80	3.54	6.42	7.65	8.87	10.08	10.18	..
Paper, pulp and printing	0.76	3.88	9.52	10.16	10.20	10.50	10.00	..
Wood and wood products	-	0.62	1.21	1.54	1.77	1.90	1.93	..
Construction	-	-	-	-	-	-	-	..
Textile and leather	1.81	9.51	16.75	14.02	13.05	12.79	12.32	..
Non specified/other	1.28	0.53	1.70	2.14	2.42	2.69	2.82	..
Transport	0.13	1.01	2.04	2.60	2.19	2.17	2.00	..
Rail Transport	0.13	1.01	2.04	2.60	2.19	2.17	2.00	..
Pipeline Transport	-	-	-	-	-	-	-	..
Road	-	-	-	-	-	-	-	..
Transport Non Specified	-	-	-	-	-	-	-	..
Commercial & publ. serv.	1.70	17.74	37.10	50.87	61.29	63.99	62.93	..
Residential	2.24	16.39	68.29	113.19	147.71	152.21	148.74	..
Agriculture	0.07	1.46	5.31	5.29	8.00	10.66	10.78	..
Fishing	-	-	-	1.72	2.04	2.40	2.78	..
Sector non specified	-	-	-	-	-	-	-	..

1. Electricity generation from main activity producer power plants and autoproducers .

2. Energy industry consumption = electricity consumed by transformation industries for heating, traction and lighting purposes;

excludes own use by power plant and electricity used for heat pumps, electric boilers and pumped storage.

Korea

Table 3b. Summary heat production and consumption¹ (TJ)

	1974	1990	2000	2005	2010	2013	2014	2015e
Gross production	-	-	140095	192499	191755	200831	207544	206189
- Own use by power plant	-	-	-	1514	3153	-
Net production	-	-	140095	192499	191755	199317	204391	-
- Used for electricity production	-	502 e	1658 e	1560 e	-	-
+ Imports	-	-	-	-	-	-	-	-
- Exports	-	-	-	-	-	-	-	-
Heat energy supplied	-	-	140095	191997	190097	197757	204391	..
- Transmission & distr. losses	-	-	2258	3741 e	2162	2870	2966 e	..
- Statistical difference	-	-	1	-11	3074	15021	9142	..
Total consumption	-	-	137836	188267	184861	179866	192283	..
Energy industry consumption²	-	-	-	-	3479	1672	1438	..
Coal Mines	-	-	-	-	-	-	-	..
Oil + Gas Extraction	-	-	-	-	-	-	-	..
Patent Fuel Plants	-	-	-	-	-	-	-	..
Coke Ovens	-	-	-	-	-	-	-	..
BKB plants	-	-	-	-	-	-	-	..
Gas Works	-	-	-	-	-	-	-	..
Blast Furnaces	-	-	-	-	-	-	-	..
Oil Refineries	-	-	-	-	3479	1672	1438	..
Nuclear Industry	-	-	-	-	-	-	-	..
Coal Liquefaction Plants	-	-	-	-	-	-	-	..
LNG/Regasification Plants	-	-	-	-	-	-	-	..
Energy - Non Specified	-	-	-	-	-	-	-	..
Final consumption	-	-	137836	188267	181382	178194	190845	..
Industry	-	-	88980	119114	97895	88910	105177	..
Iron and steel	-	-	-	-	44	340	1187	..
Chem. and petrochemical	-	-	44074	77347	61076	57301	67448	..
Non-ferrous metals	-	-	1788	1076	181	102	258	..
Non-metallic minerals	-	-	-	-	7	26	273	..
Transport equipment	-	-	-	-	-	17	11	..
Machinery	-	-	3517	3136	2905	1722	1971	..
Mining and quarrying	-	-	-	-	-	-	-	..
Food and tobacco	-	-	1746	1055	3173	4262	5655	..
Paper, pulp and printing	-	-	7367	7088	9644	9008	10806	..
Wood and wood products	-	-	-	-	329	312	340	..
Construction	-	-	-	-	-	-	19	..
Textile and leather	-	-	30488	29412	18891	15048	16629	..
Non specified/other	-	-	-	-	1645	772	580	..
Transport	-	-	-	-	-	-	-	..
Commercial & publ. serv.	-	-	4025	8473	9859	11829	13274	..
Residential	-	-	44831	60680	73628	77455	72394	..
Agriculture	-	-	-	-	-	-	-	..
Fishing	-	-	-	-	-	-	-	..
Sector non specified	-	-	-	-	-	-	-	..

1. Heat generation from main activity producer power plants and autoproducers.

2. Energy industry consumption = electricity consumed by transformation industries for heating, traction and lighting purposes;

excludes own use by power plant and electricity used for heat pumps, electric boilers and pumped storage.

Korea

Table 4a. Gross electricity production by source (TWh)

	1974	1990	2000	2010	2013	2014	2015e	74-00	00-15
Total plants gross production¹	16.84 e	105.37 e	290.13 e	499.51	542.00	550.93	548.69	11.6	4.3
Nuclear	-	52.89	108.96	148.60	138.78	156.41	164.76	-	2.8
Hydro	1.91	6.36	5.61	6.47	8.39	7.82	5.93	4.2	0.4
- Of which pumped storage	-	-	1.60	2.79	4.11	5.07	3.65	-	5.7
Geothermal	-	-	-	-	-	-	-	-	-
Solar	-	0.00 e	0.01 e	0.77	1.61	2.56	2.59	-	51.7
Wind	-	-	0.02 e	0.82	1.15	1.15	1.23	-	33.0
Combustible fuels	14.93 e	46.12	175.53 e	342.50	390.86	381.51	372.63	9.9	5.1
- Coal	..	17.66	111.40	219.28	222.84	231.50	235.99	..	5.1
- Oil	..	18.86 e	34.58	18.94 e	21.42 e	17.40 e	16.49	..	-4.8
- Natural gas	..	9.60	29.46	103.18	144.84	130.46	118.46	..	9.7
- Biofuels & waste	..	-	0.09 e	1.11	1.76 e	2.16 e	1.69	-	21.3
Other ²	-	0.35	1.21 e	1.49 e	1.54
Of which autoproducers	0.03 e	5.89 e	27.75 e	28.48	28.16	32.97	..	31.0	-
Nuclear	-	-	-	-	-	-	..	-	..
Hydro	-	-	-	-	-	-	..	-	..
- Of which pumped storage	-	-	-	-	-	-	..	-	..
Geothermal	-	-	-	-	-	-	..	-	..
Solar	-	0.00 e	0.01 e	0.09	0.28	0.42	..	-	-
Wind	-	-	0.01 e	0.01	0.01	0.01	..	-	-
Combustible fuels	0.03 e	5.89	27.74 e	28.22	27.71	32.47	..	31.0	-
- Coal	..	5.89	13.85	19.58	18.94	20.06
- Oil	..	-	12.83	5.77	5.00	8.38
- Natural gas	..	-	0.97	2.28	2.59	3.04
- Biofuels & waste	..	-	0.09 e	0.60	1.19 e	0.98 e	..	-	-
Other ²	-	0.17	0.16 e	0.08 e

Table 4b. Gross heat production by source (PJ)

	1974	1990	2000	2010	2013	2014	2015e	74-00	00-15
Total plants heat generation³	-	-	140.10 e	191.76	200.83	207.54	206.19	-	2.6
Nuclear	-	-	-	-	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-	-	-
Combustible fuels	-	-	140.10 e	187.93	196.86	203.79	206.19	-	2.6
- Coal	..	-	33.10	53.34	55.74 e	67.50	65.92	..	4.7
- Oil	..	-	65.76	52.72	27.94	29.70	29.03	..	-5.3
- Natural gas	..	-	37.89	61.77	76.36	71.67	75.39	..	4.7
- Biofuels & waste	..	-	3.35 e	20.10	36.82 e	34.92	35.84	-	17.1
Chemical processes	-	3.83 e	3.98 e	3.75 e	-
Heat pumps	-	-	-	-	-	-	-	-	-
Electric boilers	-	-	-	-	-	-	-	-	-
Other sources	-	-	-	-	-	-	-	-	-
Of which Autoproducers	-	-	92.53 e	122.35	127.54	141.24	..	-	-
Nuclear	-	-	-	-	-	-	..	-	..
Geothermal	-	-	-	-	-	-	..	-	..
Combustible fuels	-	-	92.53 e	118.52	123.56	137.49	..	-	-
- Coal	..	-	33.10	53.34	55.74 e	67.50
- Oil	..	-	56.02	44.90	24.97	26.67
- Natural gas	..	-	0.06	0.70	6.62	9.09
- Biofuels & waste	..	-	3.35 e	19.59	36.24 e	34.23	..	-	-
Chemical processes	-	3.83 e	3.98 e	3.75 e
Heat pumps	-	-	-	-	-	-	..	-	..
Electric boilers	-	-	-	-	-	-	..	-	..
Other sources	-	-	-	-	-	-	..	-	..

1. Electricity generated from main activity producer power plants and autoproducers.

2. Includes wave, ocean and other sources (e.g. fuel cells, electricity from chemical heat).

3. Total heat generation = gross production of heat from main activity producer + heat sold in autoproducers.

Korea**Table 5. Net electricity production by autoproducers (GWh)**

	1974	1990	2000	2010	2012	2013	2014	74-00	00-14
Total	25	5729 e	27754 e	28482	30871	28163	32971	31.0	1.2
Total energy	-	-	-	878	1006	1013	1132	-	-
Coal mines	-	-	-	-	-	-	-	-	-
Oil and gas extraction	-	-	-	-	-	-	-	-	-
Patent fuel plants	-	-	-	-	-	-	-	-	-
Coke ovens	-	-	-	-	-	-	-	-	-
Gas works	-	-	-	-	-	-	-	-	-
BKB	-	-	-	878	1006	1013	1132	-	-
Oil refineries	-	-	-	-	-	-	-	-	-
Energy non specified/other	-	-	-	-	-	-	-	-	-
Total industry	-	5728	27338 e	27202	29199	26318	30784	-	0.9
Iron and steel	-	5728	13156 e	15996	17160	15591	15387	-	1.1
Chemical and petrochemical	-	-	8147 e	7465	7522	7738	11307	-	2.4
Non-ferrous metals	-	-	376 e	333	375	526	396	-	0.4
Non-metallic minerals	-	-	70 e	134	132	309	306	-	11.1
Transport equipment	-	-	-	-	-	-	-	-	-
Machinery	-	-	1432 e	14	-	-	-	-	-
Mining and quarrying	-	-	-	-	-	-	-	-	-
Food and tobacco	-	-	415 e	496	1397	190	69	-	-12.0
Pulp and printing	-	-	1317 e	835	786	873	182	-	-13.2
Wood and wood products	-	-	97 e	32	55	70	74	-	-1.9
Construction	-	-	-	-	-	-	-	-	-
Textile and leather	-	-	2328 e	1897	1772	1021	956	-	-6.2
Non specified/other industries	-	-	-	-	-	-	2107	-	-
Total transport	-	-	-	-	-	-	-	-	-
Rail	-	-	-	-	-	-	-	-	-
Pipeline	-	-	-	-	-	-	-	-	-
Transport non specified	-	-	-	-	-	-	-	-	-
Other	25	1 e	416 e	402	666	832	1055	11.4	6.9
Commerce and pub. services	-	1 e	140 e	402	666	832	1003	-	15.1
Residential	-	-	-	-	-	-	52	-	-
Agriculture	-	-	-	-	-	-	-	-	-
Fishing	-	-	-	-	-	-	-	-	-
Sector non specified	25	-	276 e	-	-	-	-	9.7	-

Notes: Data reported in this table prior to 1990 may refer to combustible fuels only.

Korea**Table 6a. Electricity production from combustible fuels in electricity plants¹**

	1990	2000	2005	2010	2012	2013	2014	90-00	00-14
Steam coal									
Fuel input (1000 t)	7706	36337	50375	79001	80726	80704	79872	16.8	5.8
Fuel input (TJ)	164293	967487	1357970	1949686	2001549	1983371	1944762	19.4	5.1
Electricity production (GWh)	11770	98078	134072	198240	214979	200967	203621	23.6	5.4
Lignite									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
Coal manufactured gases²									
Fuel input (TJ)	-	-	-	30759	37629	36908	90454	-	-
Electricity production (GWh)	-	-	-	2251	3639	3623	8503	-	-
Other coal products³									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
Oil and petroleum products									
Fuel input (1000 t)	4434 e	5895 e	4827 e	3069 e	3795 e	3864 e	2123	2.9	-7.0
Fuel input (TJ)	193646 e	258885	205644 e	128540 e	158638 e	161781 e	88369	2.9	-7.4
Electricity production (GWh)	18857 e	26537	20344 e	14030 e	16873 e	17314 e	10096 e	3.5	-6.7
Natural gas²									
Fuel input (TJ)	102859	140950	366845	624831	747821	773279	698059	3.2	12.1
Electricity production (GWh)	9604	17617	48118	82679	83493	113076	104263	6.3	13.5
Solid biofuels									
Fuel input (TJ)	-	433 e	308	2781	3113	3957	1629	-	9.9
Electricity production (GWh)	-	46	33	241	304	385	158	-	9.2
Industrial waste									
Fuel input (TJ)	-	-	116	932	2271	1725	2336	-	-
Electricity production (GWh)	-	-	12	103	221	168	227	-	-
Municipal waste									
Fuel input (TJ)	-	-	-	28	1036	1066	1295	-	-
Electricity production (GWh)	-	-	-	2	100	103	126	-	-
Biogases and liquid biofuels									
Fuel input (TJ)	-	112	1356	3889	4217	4828	8970	-	36.8
Electricity production (GWh)	-	11	130	430	462	507	1076	-	38.7
Total combustible fuels									
Electricity production (GWh)	40231 e	142289	202709 e	297976 e	320071 e	336143 e	328070 e	13.5	6.1

1. Excludes CHP plants.

2. Coal manufactured gases and natural gas are expressed on a gross calorific value basis.

3. Includes Coking coal as well as peat and peat products, patent fuels, BKB and shale oil

Korea**Table 6b. Electricity and heat produced for sale from combustible fuels
in combined heat and power plants (CHP plants)**

	1990	2000	2005	2010	2012	2013	2014	90-00	00-14
Steam coal									
Fuel input (1000 t)	-	1939	2340	4169	5166	4904	5728	-	8.0
Fuel input (TJ)	-	53580	63023	101176	129110	120869	140304	-	7.1
Electricity production (GWh)	-	2037	2520	5029	6270	4743	6676	-	8.8
CHP Heat production (TJ)	-	33102	34757	53342	55845	55301	66913	-	5.2
Lignite									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
CHP Heat production (TJ)	-	-	-	-	-	-	-	-	-
Coal manufactured gases¹									
Fuel input (TJ)	85897	94717	101148	116116	119939	104175	96230	1.0	0.1
Electricity production (GWh)	5891	11280	12199	13756	14459	13509	12700	6.7	0.9
CHP Heat production (TJ)	-	-	468	-	501	435 e	589	-	-
Other coal products²									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
CHP Heat production (TJ)	-	-	-	-	-	-	-	-	-
Petroleum products									
Fuel input (1000 t)	-	3396 e	3375 e	2324	2282	2300	2471	-	-2.2
Fuel input (TJ)	-	154012	147218 e	100339	103576	97066	101696	-	-2.9
Electricity production (GWh)	-	8044	5648 e	4905	4295	4104	7299	-	-0.7
CHP Heat production (TJ)	-	59190	90366 e	49799	48700 e	27938	29085	-	-4.9
Natural gas¹									
Fuel input (TJ)	-	123037	142855	206618	280157	281468	235787	-	4.8
Electricity production (GWh)	-	11844	14036	20505	28444	31759	26195	-	5.8
CHP Heat production (TJ)	-	36767	43424	57308	75168	72284	69030	-	4.6
Solid Biofuels									
Fuel input (TJ)	-	-	-	1802	3532	3015 e	2984	-	-
Electricity production (GWh)	-	-	-	21	94	115 e	108	-	-
CHP Heat production (TJ)	-	-	-	1077	1587	1606 e	2313	-	-
Industrial waste									
Fuel input (TJ)	-	-	-	25	1849	1709	1550	-	-
Electricity production (GWh)	-	-	-	1	129	119 e	108 e	-	-
CHP Heat production (TJ)	-	-	-	9	824	831	941	-	-
Municipal waste									
Fuel input (TJ)	-	344 e	4670 e	7125	9856	6722	7052	-	24.1
Electricity production (GWh)	-	36 e	119 e	207	250	264	235	-	14.3
CHP Heat production (TJ)	-	-	1529	2295	5155	1596	1858	-	-
Biogases and liquid biofuels									
Fuel input (TJ)	-	-	-	1131	983	971	1271	-	-
Electricity production (GWh)	-	-	-	102	104	102	119	-	-
CHP Heat production (TJ)	-	-	-	515	357	354	547	-	-
Total combustible fuels									
Electricity production (GWh)	5891	33241 e	34522 e	44526	54045	54715 e	53440 e	18.9	3.4
CHP Heat production (TJ)	-	129059	170544 e	164345	188137 e	160345 e	171276	-	2.0

1. Coal manufactured gases and natural gas are expressed on a gross calorific value basis.

2. Includes Coking coal as well as peat and peat products, patent fuels, BKB and shale oil

Korea**Table 6c. Heat produced for sale from combustible fuels in heat plants¹**

	1990	2000	2005	2010	2012	2013	2014	90-00	00-14
Steam coal									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Heat production (TJ)	-	-	-	-	-	-	-	-	-
Lignite									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Heat production (TJ)	-	-	-	-	-	-	-	-	-
Coal manufactured gases²									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Heat production (TJ)	-	-	-	-	-	-	-	-	-
Other coal products³									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Heat production (TJ)	-	-	-	-	-	-	-	-	-
Petroleum products									
Fuel input (1000 t)	-	177	302 e	99	46	-	15	-	-16.2
Fuel input (TJ)	-	7954	12209	4103	1902	4	633	-	-16.5
Heat production (TJ)	-	6565	10294	2917	1802	3	617	-	-15.5
Natural gas²									
Fuel input (TJ)	-	1235	5541	6183	5607	4795	3054	-	6.7
Heat production (TJ)	-	1118	4692	4460	4919	4077	2640	-	6.3
Solid biofuels									
Fuel input (TJ)	-	-	-	-	1206	1206	5506	-	-
Heat production (TJ)	-	-	-	-	564	564 e	4492	-	-
Industrial waste									
Fuel input (TJ)	-	-	-	2571	15869	17206	10443	-	-
Heat production (TJ)	-	-	-	2057	12695	16455	9815	-	-
Municipal waste									
Fuel input (TJ)	-	4191	7719 e	17686	9718 e	15215	17908	-	10.9
Heat production (TJ)	-	3353 e	6175 e	14149	7774	15215	14924	-	11.3
Biogases and liquid biofuels									
Fuel input (TJ)	-	-	360	-	245 e	245	74	-	-
Heat production (TJ)	-	-	292	-	196	196 e	28	-	-
Total combustible fuels									
Heat production (TJ)	-	11036 e	21453 e	23583	27950	36510 e	32516	-	8.0

1. Excludes CHP plants

2. Coal manufactured gases and natural gas are expressed on a gross calorific value basis.

3. Includes Coking coal as well as peat and peat products, patent fuels, BKB and shale oil

Korea**Table 7. Net maximum electricity generating capacity on 31 December (GW)**

	1974	1990	2000	2005	2010	2012	2013	2014
Total capacity¹	-	2.34	53.69	66.54	84.70 e	87.82	91.49	99.83
Nuclear	-	-	13.72	17.18	17.72	20.72	20.72	20.72
Hydro	-	2.34	3.15	3.88	5.53	6.45	6.45	6.47
<i>of which: pumped storage</i>	-	1.00	1.60	2.30	3.90	4.70	4.70	4.70
Geothermal	-	-	-	-	-	-	-	-
Solar PV	-	-	-	0.01 e	0.65	1.02	1.56	2.48
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	0.26	0.26
Wind	-	-	0.01	0.10 e	0.38	0.46	0.58	0.61
Other (e.g. fuel cells)	-	-	-	-	0.04	0.09 e	0.13	0.18
Combustible fuels	-	..	36.82	45.37	60.39 e	59.09	61.80	69.12
<i>of which⁽²⁾:</i>								
<i>Single-fired:</i>								
Coal and Coal products	-	..	12.83 e	19.74	28.29	29.13	29.30	32.56
Liquid fuels	-	..	8.53 e	7.04	6.85	6.98	5.84	4.78
Natural gas	-	..	6.40 e	17.03	23.90	22.66	26.30	31.21
Biofuels & waste	-	..	0.48 e	0.08	0.23	0.32	0.35	0.57
<i>Multi-fired:</i>								
Solid / liquid	-	..	1.61 e	1.44	1.13 e	-
Solid / natural gas	-	-	-	-	-	-
Liquid / natural gas	-	..	6.97 e	0.04	-	-
Solid / liquid / gas	-	-	-	-	-	-
<i>Type of generation</i>								
Steam	-	..	24.93 e	29.22	38.50	38.58	38.05	40.52
Internal combustion	-	..	0.27	0.36	0.38	0.37	0.40	0.40
Gas turbine	-	-	-	0.17	0.26	0.25	0.30	0.31
Combined cycle	-	..	11.62 e	15.61	21.26 e	19.89	23.05	27.90
Other	-	-	-	-	-	-	-	-
<i>Peak load</i>	41.01	54.63	71.31	75.99	76.52 e	80.15
Of which Autoproducers	-	-	5.24	5.82	5.60	6.81	6.34	7.72
Nuclear	-	-	-	-	-	-	-	-
Hydro	-	-	-	-	-	-	-	-
<i>of which: pumped storage</i>	-	-	-	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-	-
Solar PV	-	-	-	0.01 e	0.12	0.34	0.48	0.69
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	-	0.01	-	-	0.02	0.02	0.01
Other (e.g. fuel cells)	-	-	-	-	-	-	0.01	0.02
Combustible fuels	-	..	5.23	5.81	5.48	6.45	5.84	7.00

1. Sum of available capacity figures

2. Breakdown of electrical capacity by type of fuel are shown in the individual country chapters.

Korea**Table 8. Capacity factors (%)**

	1974	1990	2000	2005	2010	2012	2013	2014
Total plants¹	- e	513.8 e	61.7	66.8	67.3 e	69.5	67.6	63.0
Nuclear	-	-	90.7	97.6	95.8	82.8	76.5	86.2
Hydro	-	31.0	20.3	15.3	13.4	13.6	14.9	13.8
<i>of which: pumped storage</i>	-	-	11.4	7.5	8.2	9.0	10.0	12.3
Geothermal	-	-	-	-	-	-	-	-
Solar PV	-	11.4	14.3	12.2 e	13.6	12.3	11.8	11.8
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	21.7	22.0
Wind	-	-	27.7 e	15.0 e	24.4	22.6	22.8	21.4
Other (e.g. fuel cells)	-	-	-	-	60.8	51.2 e	49.3	60.8
Combustible fuels	- e	..	54.4	59.7	64.7 e	72.3	72.2	63.0
Of which autoproducers	- e	67260.3 e	60.4	52.2	58.1	51.9	50.7	48.8
Nuclear	-	-	-	-	-	-	-	-
Hydro	-	-	-	-	-	-	-	-
<i>of which: pumped storage</i>	-	-	-	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-	-
Solar PV	-	11.4	14.3	12.3 e	8.7	7.0	6.8	6.9
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	-	13.1 e	19.0	19.0	0.5	7.1	15.7
Other (e.g. fuel cells)	-	-	-	-	205.5	-	19.6	14.3
Combustible fuels	- e	..	60.5	52.2	58.8	54.2	54.2	52.9

1. The capacity factor is defined as: the annual gross electricity generation (in GWh) divided by the net capacity (in GW) times 365 (days/year) times 24 (hours/day)

Korea**Table 10a. Share of electricity in total final consumption (%)**

	1974	1990	2000	2005	2010	2012	2013	2014
Share of total final consumption	7.1	12.5	17.8	21.9	24.5	25.0	25.0	24.6
Industry	13.8	25.8	33.6	40.5	43.6	45.6	46.1	45.3
Iron and steel	22.8	38.1	43.5	44.6	40.6	42.0	42.2	38.0
Chem. and petrochemical	69.7	25.5	46.2	45.0	43.9	45.5	44.1	44.4
Non-ferrous metals	-	-	10.3	16.6	73.6	74.7	71.6	72.5
Non-metallic minerals	100.0	13.0	14.0	16.1	17.9	17.2	17.6	17.7
Transport equipment	-	-	34.2	55.0	68.1	62.6	65.7	68.2
Machinery	100.0	55.5	76.9	86.0	83.9	85.9	84.4	83.7
Mining and quarrying	100.0	43.5	64.4	65.8	62.8	62.3	57.7	65.7
Food and tobacco	100.0	22.5	33.8	41.8	45.8	46.0	48.8	47.2
Paper, pulp and printing	100.0	27.0	34.1	36.7	39.7	41.8	42.5	36.9
Wood and wood products	-	43.6	48.5	50.7	54.0	63.6	63.7	45.6
Construction	-	-	-	-	-	-	-	-
Textile and leather	100.0	33.9	34.1	36.2	43.7	50.4	54.2	52.8
Non specified/other	2.1	2.7	2.9	6.0	6.0	5.8	6.7	9.1
Transport	0.5	0.6	0.7	0.8	0.6	0.6	0.6	0.5
Rail Transport	34.7	23.4	35.8	46.2	50.6	53.5	55.7	58.1
Pipeline Transport	-	-	-	-	-	-	-	-
Road	-	-	-	-	-	-	-	-
Transport Non Specified	-	-	-	-	-	-	-	-
Other sectors	4.5	12.6	25.5	35.2	42.4	44.0	43.8	45.0
Commercial & publ. serv.	22.0	16.2	34.1	50.6	62.0	64.8	64.2	63.6
Residential	2.3	11.8	21.2	23.8	26.5	27.1	27.1	28.4
Agriculture	100.0	7.6	12.6	24.0	35.4	40.6	42.7	54.5
Fishing	-	-	-	13.0	16.2	22.4	20.8	24.8
Sector non specified	-	-	-	-	-	-	-	-

Table 10b. Share of heat in total final consumption (%)

	1974	1990	2000	2005	2010	2012	2013	2014
Share of total final consumption	-	-	2.6	3.2	2.8	2.6	2.5	2.7
Industry	-	-	5.5	7.3	5.2	4.5	4.5	5.1
Iron and steel	-	-	-	-	0.0	0.1	0.1	0.2
Chem. and petrochemical	-	-	16.6	24.2	18.2	15.0	15.0	17.4
Non-ferrous metals	-	-	16.3	12.3	0.4	-	0.2	0.6
Non-metallic minerals	-	-	-	-	-	0.0	0.0	0.1
Transport equipment	-	-	-	-	-	0.1	0.0	0.0
Machinery	-	-	3.0	1.9	1.1	0.9	0.6	0.6
Mining and quarrying	-	-	-	-	-	-	-	-
Food and tobacco	-	-	2.6	1.6	4.6	7.1	5.7	7.3
Paper, pulp and printing	-	-	7.3	7.1	10.4	9.4	10.1	11.1
Wood and wood products	-	-	-	-	2.8	5.7	2.9	2.2
Construction	-	-	-	-	-	-	-	0.1
Textile and leather	-	-	17.2	21.1	17.6	16.3	17.7	19.8
Non specified/other	-	-	-	-	1.1	1.4	0.5	0.5
Transport	-	-	-	-	-	-	-	-
Other sectors	-	-	3.1	4.0	4.5	4.8	4.7	4.8
Commercial & publ. serv.	-	-	0.6	1.1	1.2	1.3	1.4	1.6
Residential	-	-	7.1	7.9	8.9	9.3	9.1	9.1
Agriculture	-	-	-	-	-	-	-	-
Fishing	-	-	-	-	-	-	-	-
Sector non specified	-	-	-	-	-	-	-	-

Source: IEA/OECD World Energy Balances.

Luxembourg

Figure 1. Total final consumption by fuel

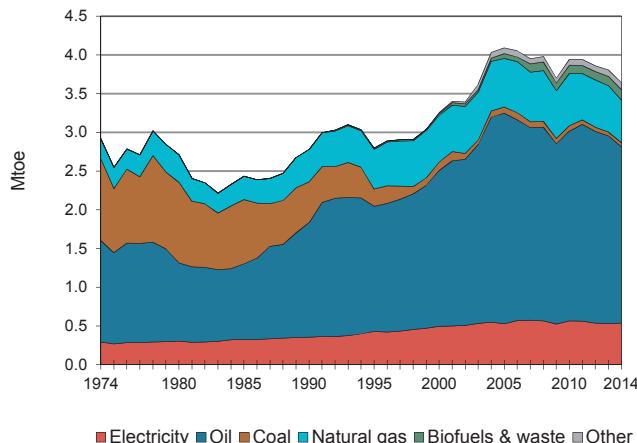


Figure 2. Electricity generation by fuel

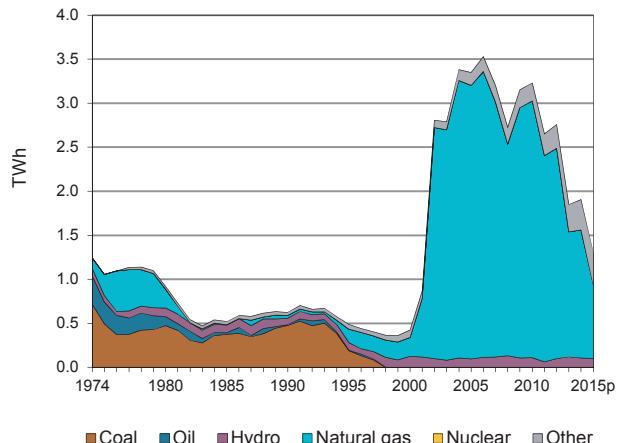


Figure 3. Electricity consumption by sector

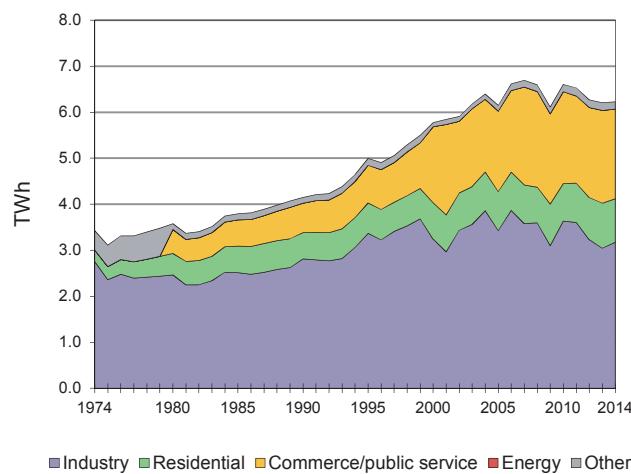


Figure 4. Electricity indicators

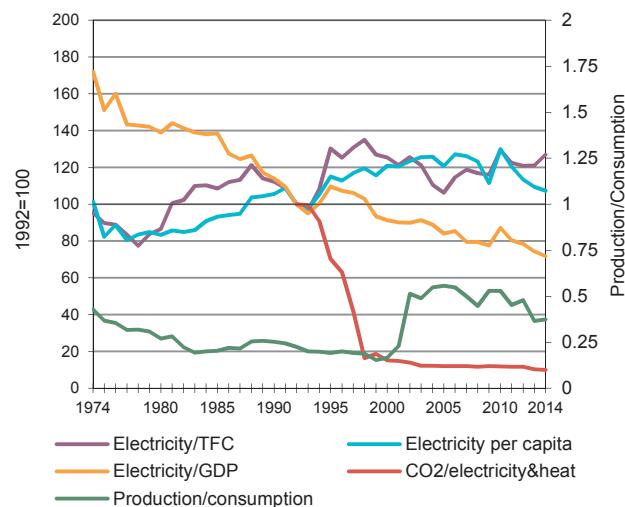
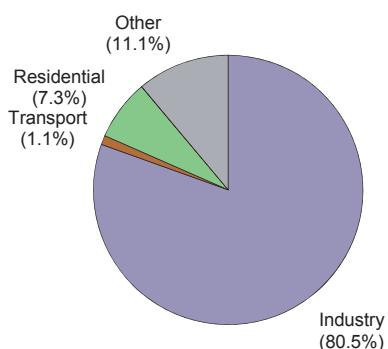


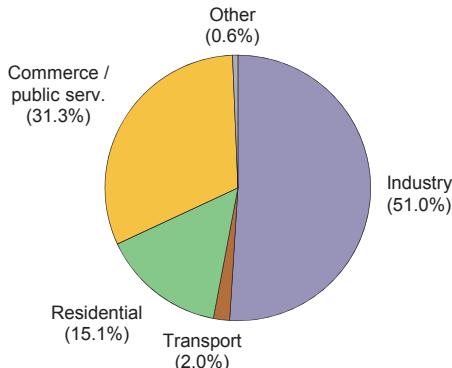
Figure 5. Total final electricity consumption by sector

1974



3.4 TWh

2014



6.2 TWh

Luxembourg

Table 1. Energy consumption, GDP and population

	1974	1990	2000	2010	2013	2014	2015p	74-00	00-15
TPES (Mtoe)	4.62	3.39	3.35	4.22	3.97	3.82	3.73	-1.2	0.7
GDP (billion 2005 USD)	14.47	24.51	40.06	52.35	55.55	57.81	60.62	4.0	2.8
TPES/GDP ¹	0.32	0.14	0.08	0.08	0.07	0.07	0.06	-5.0	-2.0
Population (millions)	0.36	0.38	0.44	0.51	0.55	0.56	0.57	0.8	1.7
TPES/population ²	13.03	8.87	7.66	8.31	7.29	6.84	6.59	-2.0	-1.0
TPES/GDP (2005 = 100)	338	146	88	85	76	70	65	-5.0	-2.0
Ele.TFC/GDP(2005=100) ³	178	128	109	95	84	81	..	-1.9	..
Ele.TFC/population ⁴	9646	10865	13220	13007	11393	11165	..	1.2	..
Elec. generated (TWh) ⁵	1.24	0.62	0.42	3.23	1.85	1.91	1.31	-4.1	7.8

Source: IEA/OECD *World Energy Balances* and OECD *Main Economic Indicators*.

Table 2. Total primary energy supply (TPES) by source

	1974	1990	2000	2010	2013	2014	2015p	74-00	00-15
TPES (Mtoe)	4.62	3.39	3.35	4.22	3.97	3.82	3.73	-1.2	0.7
Coal	2.68	1.11	0.11	0.07	0.05	0.05	0.05	-11.6	-5.1
Oil	1.41	1.48	2.01	2.45	2.42	2.28	2.20	1.4	0.6
Natural gas	0.29	0.43	0.67	1.20	0.89	0.84	0.77	3.2	0.9
Biofuels & waste	-	0.02	0.05	0.14	0.16	0.20	0.20	-	9.7
Nuclear	-	-	-	-	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-	-	-
Solar, wind, tide ⁶	-	-	0.00	0.01	0.02	0.02	0.02	-	15.2
Hydro	0.01	0.01	0.01	0.01	0.01	0.01	0.01	1.6	-1.6
Net electricity imports ⁷	0.23	0.34	0.49	0.35	0.43	0.42	0.48	2.9	-0.1
Heat	-	-	-	-	-	-	-	-	-

Source: IEA/OECD *World Energy Balances*.

1. In units of toe/2005 thousand US dollars.

2. In units of toe/per capita.

3. Ele.TFC = electricity total final consumption.

4. In units of kWh/per capita.

5. Electricity generated = gross production - amount of electricity produced in pumped storage plants.

6. Includes wave, ocean and other (e.g. fuel cells).

7. Net Imports = total imports - total exports

Luxembourg

Table 3a. Summary electricity production and consumption¹ (TWh)

	1974	1990	2000	2005	2010	2013	2014	2015e
Gross production	2.08	1.38	1.17	4.13	4.59	2.89	2.97	2.74
- Own use by power plant	0.07	0.04	0.04	0.03	0.03	0.03	0.03	-
Net production	2.01	1.33	1.13	4.11	4.56	2.86	2.94	-
- Used for heat pumps	-	-	-	-	-	-	-	-
- Used for electric boilers	-	-	-	-	-	-	-	-
- Used for pumped storage	1.16	1.05	1.01	1.11	1.91	1.47	1.50	1.95
+ Imports	3.53	4.68	6.45	6.39	7.28	6.85	6.96	7.52
- Exports	0.85	0.75	0.74	3.13	3.22	1.91	2.07	1.92
Electrical energy supplied	3.53	4.22	5.83	6.26	6.71	6.34	6.34	..
- Transmission & distr. losses	0.11	0.09	0.04	0.12	0.12	0.12	0.12	..
- Statistical difference	-	-0.02	0.01	-0.00	-0.02	0.01	-0.01	..
Total consumption	3.42	4.15	5.78	6.15	6.61	6.21	6.23	..
Energy industry consumption²	-	-	-	-	-	-	-	..
Coal Mines	-	-	-	-	-	-	-	..
Oil + Gas Extraction	-	-	-	-	-	-	-	..
Patent Fuel Plants	-	-	-	-	-	-	-	..
Coke Ovens	-	-	-	-	-	-	-	..
BKB plants	-	-	-	-	-	-	-	..
Gas Works	-	-	-	-	-	-	-	..
Blast Furnaces	-	-	-	-	-	-	-	..
Oil Refineries	-	-	-	-	-	-	-	..
Nuclear Industry	-	-	-	-	-	-	-	..
Coal Liquefaction Plants	-	-	-	-	-	-	-	..
LNG/Regasification Plants	-	-	-	-	-	-	-	..
Energy - Non Specified	-	-	-	-	-	-	-	..
Final consumption	3.42	4.15	5.78	6.15	6.61	6.21	6.23	..
Industry	2.76	2.81	3.24	3.43	3.63	3.05	3.18	..
Iron and steel	2.01	1.19	1.84	1.70	2.32	1.50	1.55	..
Chem. and petrochemical	0.46	-	0.28	0.53	0.35	0.44	0.46	..
Non-ferrous metals	0.00	-	-	-	-	-	-	..
Non-metallic minerals	0.05	-	0.38	0.21	0.13	0.25	0.26	..
Transport equipment	-	-	0.01	0.02	0.03	0.01	0.01	..
Machinery	0.04	-	0.10	0.14	0.15	0.10	0.10	..
Mining and quarrying	0.05	-	0.01	0.01	0.01	0.01	0.01	..
Food and tobacco	0.03	-	0.15	0.17	0.15	0.16	0.16	..
Paper, pulp and printing	-	-	0.10	0.15	0.07	0.04	0.04	..
Wood and wood products	-	-	0.02	0.02	0.02	0.01	0.01	..
Construction	-	-	0.14	0.26	0.17	0.13	0.14	..
Textile and leather	0.02	-	0.17	0.16	0.14	0.09	0.12	..
Non specified/other	0.10	1.62	0.05	0.08	0.12	0.31	0.31	..
Transport	0.04	0.06	0.06	0.09	0.12	0.13	0.12	..
Rail Transport	0.04	0.06	0.06	0.09	0.12	0.13	0.12	..
Pipeline Transport	-	-	-	-	-	-	-	..
Road	-	-	-	-	-	-	-	..
Transport Non Specified	-	-	-	-	-	-	-	..
Commercial & publ. serv.	0.25	0.58	0.79	0.85	0.82	0.98	0.94	..
Residential	-	0.64	1.65	1.75	2.00	2.01	1.95	..
Agriculture	-	0.07	0.03	0.03	0.04	0.04	0.04	..
Fishing	-	-	-	-	-	-	-	..
Sector non specified	0.38	-	-	-	-	-	-	..

1. Electricity generation from main activity producer power plants and autoproducers .

2. Energy industry consumption = electricity consumed by transformation industries for heating, traction and lighting purposes;

excludes own use by power plant and electricity used for heat pumps, electric boilers and pumped storage.

Luxembourg

Table 3b. Summary heat production and consumption¹ (TJ)

	1974	1990	2000	2005	2010	2013	2014	2015e
Gross production	-	-	536	3157	3109	3247	3587	2173
- Own use by power plant	-	-	-	1	-	-	-	-
Net production	-	-	536	3156	3109	3247	3587	-
- Used for electricity production	-	-	-	-	-	-	-	-
+ Imports	-	-	-	-	-	-	-	-
- Exports	-	-	-	-	-	-	-	-
Heat energy supplied	-	-	536	3156	3109	3247	3587	..
- Transmission & distr. losses	-	-	-	-	-	-	-	..
- Statistical difference	-	-	-1	-	-2	-5	1	..
Total consumption	-	-	537	3156	3111	3252	3586	..
Energy industry consumption²	-	-	-	-	-	-	-	..
Coal Mines	-	-	-	-	-	-	-	..
Oil + Gas Extraction	-	-	-	-	-	-	-	..
Patent Fuel Plants	-	-	-	-	-	-	-	..
Coke Ovens	-	-	-	-	-	-	-	..
BKB plants	-	-	-	-	-	-	-	..
Gas Works	-	-	-	-	-	-	-	..
Blast Furnaces	-	-	-	-	-	-	-	..
Oil Refineries	-	-	-	-	-	-	-	..
Nuclear Industry	-	-	-	-	-	-	-	..
Coal Liquefaction Plants	-	-	-	-	-	-	-	..
LNG/Regasification Plants	-	-	-	-	-	-	-	..
Energy - Non Specified	-	-	-	-	-	-	-	..
Final consumption	-	-	537	3156	3111	3252	3586	..
Industry	-	-	-	505	547	518	566	..
Iron and steel	-	-	-	-	-	-	-	..
Chem. and petrochemical	-	-	-	221	203	246	272	..
Non-ferrous metals	-	-	-	-	-	-	-	..
Non-metallic minerals	-	-	-	-	-	-	-	..
Transport equipment	-	-	-	-	-	-	-	..
Machinery	-	-	-	2	2	6	-	..
Mining and quarrying	-	-	-	-	-	-	-	..
Food and tobacco	-	-	-	-	-	2	2	..
Paper, pulp and printing	-	-	-	-	-	1	1	..
Wood and wood products	-	-	-	-	-	-	-	..
Construction	-	-	-	-	-	-	-	..
Textile and leather	-	-	-	282	337	255	282	..
Non specified/other	-	-	-	-	5	8	9	..
Transport	-	-	-	-	-	-	-	..
Commercial & publ. serv.	-	-	537	2651	2564	2734	3020	..
Residential	-	-	-	-	-	-	-	..
Agriculture	-	-	-	-	-	-	-	..
Fishing	-	-	-	-	-	-	-	..
Sector non specified	-	-	-	-	-	-	-	..

1. Heat generation from main activity producer power plants and autoproducers.

2. Energy industry consumption = electricity consumed by transformation industries for heating, traction and lighting purposes;

excludes own use by power plant and electricity used for heat pumps, electric boilers and pumped storage.

Luxembourg

Table 4a. Gross electricity production by source (TWh)

	1974	1990	2000	2010	2013	2014	2015e	74-00	00-15
Total plants gross production¹	2.08	1.38	1.17	4.59	2.89	2.97	2.74	-2.2	5.8
Nuclear	-	-	-	-	-	-	-	-	-
Hydro	0.92	0.82	0.87	1.47	1.16	1.17	1.53	-0.2	3.8
- Of which pumped storage	0.84	0.75	0.75	1.36	1.04	1.06	1.43	-0.4	4.4
Geothermal	-	-	-	-	-	-	-	-	-
Solar	-	-	-	0.02	0.07	0.10	0.09	-	-
Wind	-	-	0.03	0.06	0.08	0.08	0.09	-	8.4
Combustible fuels	1.16	0.55	0.27	3.05	1.57	1.62	1.02	-5.4	9.3
- Coal	..	0.48	-	-	-	-	-	..	-
- Oil	..	0.01	-	0.00	-	-	-	..	-
- Natural gas	..	0.03	0.22	2.92	1.42	1.45	0.83	..	9.5
- Biofuels & waste	..	0.03	0.06	0.13	0.15	0.17	0.19	..	8.4
Other ²	-	-	-	-	-	-	-	-	-
Of which autoproducers	1.16	0.52	0.05	0.22	0.27	0.27	..	-11.2	..
Nuclear	-	-	-	-	-	-	..	-	..
Hydro	-	0.00	0.01	0.01	0.01	0.01	..	-	..
- Of which pumped storage	-	-	-	-	-	-	..	-	..
Geothermal	-	-	-	-	-	-	..	-	..
Solar	-	-	-	0.02	0.07	0.10	..	-	..
Wind	-	-	-	-	-	-	..	-	..
Combustible fuels	1.16	0.52	0.05	0.19	0.19	0.17	..	-11.6	..
- Coal	..	0.48	-	-	-	-
- Oil	..	0.01	-	-	-	-
- Natural gas	..	0.03	0.04	0.13	0.13	0.11
- Biofuels & waste	..	-	0.00	0.06	0.06	0.06
Other ²	-	-	-	-	-	-	..	-	..

Table 4b. Gross heat production by source (PJ)

	1974	1990	2000	2010	2013	2014	2015e	74-00	00-15
Total plants heat generation³	-	-	0.54	3.11	3.25	3.59	2.17	-	9.8
Nuclear	-	-	-	-	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-	-	-
Combustible fuels	-	-	0.54	3.11	3.25	3.59	2.17	-	9.8
- Coal	..	-	-	-	-	-	-	..	-
- Oil	..	-	0.03	0.01	0.01	0.01	0.01	..	-8.6
- Natural gas	..	-	0.50	2.98	3.06	3.06	1.61	..	8.1
- Biofuels & waste	..	-	0.00	0.11	0.18	0.52	0.56	..	39.0
Chemical processes	-	-	-	-	-	-	-	-	-
Heat pumps	-	-	-	-	-	-	-	-	-
Electric boilers	-	-	-	-	-	-	-	-	-
Other sources	-	-	-	-	-	-	-	-	-
Of which Autoproducers	-	-	0.22	0.68	0.68	0.61	..	-	..
Nuclear	-	-	-	-	-	-	..	-	..
Geothermal	-	-	-	-	-	-	..	-	..
Combustible fuels	-	-	0.22	0.68	0.68	0.61	..	-	..
- Coal	..	-	-	-	-	-
- Oil	..	-	-	-	-	-
- Natural gas	..	-	0.22	0.64	0.63	0.53
- Biofuels & waste	..	-	-	0.03	0.05	0.08
Chemical processes	-	-	-	-	-	-	..	-	..
Heat pumps	-	-	-	-	-	-	..	-	..
Electric boilers	-	-	-	-	-	-	..	-	..
Other sources	-	-	-	-	-	-	..	-	..

1. Electricity generated from main activity producer power plants and autoproducers.

2. Includes wave, ocean and other sources (e.g. fuel cells, electricity from chemical heat).

3. Total heat generation = gross production of heat from main activity producer + heat sold in autoproducers.

Luxembourg**Table 5. Net electricity production by autoproducers (GWh)**

	1974	1990	2000	2010	2012	2013	2014	74-00	00-14
Total	1096	489	53	216	223	265	270	-11.0	12.3
Total energy	-	-	-	-	-	-	-	-	-
Coal mines	-	-	-	-	-	-	-	-	-
Oil and gas extraction	-	-	-	-	-	-	-	-	-
Patent fuel plants	-	-	-	-	-	-	-	-	-
Coke ovens	-	-	-	-	-	-	-	-	-
Gas works	-	-	-	-	-	-	-	-	-
BKB	-	-	-	-	-	-	-	-	-
Oil refineries	-	-	-	-	-	-	-	-	-
Energy non specified/other	-	-	-	-	-	-	-	-	-
Total industry	1096	486	-	-	-	-	-	-	-
Iron and steel	1096	464	-	-	-	-	-	-	-
Chemical and petrochemical	-	22	-	-	-	-	-	-	-
Non-ferrous metals	-	-	-	-	-	-	-	-	-
Non-metallic minerals	-	-	-	-	-	-	-	-	-
Transport equipment	-	-	-	-	-	-	-	-	-
Machinery	-	-	-	-	-	-	-	-	-
Mining and quarrying	-	-	-	-	-	-	-	-	-
Food and tobacco	-	-	-	-	-	-	-	-	-
Pulp and printing	-	-	-	-	-	-	-	-	-
Wood and wood products	-	-	-	-	-	-	-	-	-
Construction	-	-	-	-	-	-	-	-	-
Textile and leather	-	-	-	-	-	-	-	-	-
Non specified/other industries	-	-	-	-	-	-	-	-	-
Total transport	-	-	-	-	-	-	-	-	-
Rail	-	-	-	-	-	-	-	-	-
Pipeline	-	-	-	-	-	-	-	-	-
Transport non specified	-	-	-	-	-	-	-	-	-
Other	-	3	53	216	223	265	270	-	12.3
Commerce and pub. services	-	-	-	-	-	-	-	-	-
Residential	-	3	6	29	43	80	101	-	22.3
Agriculture	-	-	5	56	57	56	60	-	19.4
Fishing	-	-	-	-	-	-	-	-	-
Sector non specified	-	-	42	131	123	129	109	-	7.0

Notes: Data reported in this table prior to 1990 may refer to combustible fuels only.

Luxembourg

Table 6a. Electricity production from combustible fuels in electricity plants¹

	1990	2000	2005	2010	2012	2013	2014	90-00	00-14
Steam coal									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
Lignite									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
Coal manufactured gases²									
Fuel input (TJ)	6378	-	-	-	-	-	-	-	-
Electricity production (GWh)	477	-	-	-	-	-	-	-	-
Other coal products³									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
Oil and petroleum products									
Fuel input (1000 t)	3	-	-	-	-	-	-	-	-
Fuel input (TJ)	117	-	-	-	-	-	-	-	-
Electricity production (GWh)	9	-	-	-	-	-	-	-	-
Natural gas²									
Fuel input (TJ)	448	-	19594	18676	-	-	-	-	-
Electricity production (GWh)	34	-	2689	2533	-	-	-	-	-
Solid biofuels									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
Industrial waste									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
Municipal waste									
Fuel input (TJ)	954	1176	1234	1113	1203	1185	1146	2.1	-0.2
Electricity production (GWh)	34	52	48	74	96	95	89	4.3	3.9
Biogases and liquid biofuels									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
Total combustible fuels									
Electricity production (GWh)	554	52	2737	2607	96	95	89	-21.1	3.9

1. Excludes CHP plants.

2. Coal manufactured gases and natural gas are expressed on a gross calorific value basis.

3. Includes Coking coal as well as peat and peat products, patent fuels, BKB and shale oil

Luxembourg

**Table 6b. Electricity and heat produced for sale from combustible fuels
in combined heat and power plants (CHP plants)**

	1990	2000	2005	2010	2012	2013	2014	90-00	00-14
Steam coal									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
CHP Heat production (TJ)	-	-	-	-	-	-	-	-	-
Lignite									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
CHP Heat production (TJ)	-	-	-	-	-	-	-	-	-
Coal manufactured gases¹									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
CHP Heat production (TJ)	-	-	-	-	-	-	-	-	-
Other coal products²									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
CHP Heat production (TJ)	-	-	-	-	-	-	-	-	-
Petroleum products									
Fuel input (1000 t)	-	1	-	-	1	-	-	-	-
Fuel input (TJ)	-	47	8	7	8	4	5	-	-14.8
Electricity production (GWh)	-	-	1	1	1	-	-	-	-
CHP Heat production (TJ)	-	22	4	3	4	2	2	-	-15.7
Natural gas¹									
Fuel input (TJ)	-	3086	5733	5500	20548	13480	13871	-	11.3
Electricity production (GWh)	-	215	418	383	2388	1420	1452	-	14.6
CHP Heat production (TJ)	-	489	3065	2933	2869	2963	2996	-	13.8
Solid Biofuels									
Fuel input (TJ)	-	-	-	-	-	49	525	-	-
Electricity production (GWh)	-	-	-	-	-	2	21	-	-
CHP Heat production (TJ)	-	-	-	-	-	31	336	-	-
Industrial waste									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
CHP Heat production (TJ)	-	-	-	-	-	-	-	-	-
Municipal waste									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
CHP Heat production (TJ)	-	-	-	-	-	-	-	-	-
Biogases and liquid biofuels									
Fuel input (TJ)	-	17	101	275	305	307	384	-	24.9
Electricity production (GWh)	-	4	28	55	58	56	61	-	21.5
CHP Heat production (TJ)	-	-	-	33	43	47	77	-	-
Total combustible fuels									
Electricity production (GWh)	-	219	447	439	2447	1478	1534	-	14.9
CHP Heat production (TJ)	-	511	3069	2969	2916	3043	3411	-	14.5

1. Coal manufactured gases and natural gas are expressed on a gross calorific value basis.

2. Includes Coking coal as well as peat and peat products, patent fuels, BKB and shale oil

Luxembourg

Table 6c. Heat produced for sale from combustible fuels in heat plants¹

	1990	2000	2005	2010	2012	2013	2014	90-00	00-14
Steam coal									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Heat production (TJ)	-	-	-	-	-	-	-	-	-
Lignite									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Heat production (TJ)	-	-	-	-	-	-	-	-	-
Coal manufactured gases²									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Heat production (TJ)	-	-	-	-	-	-	-	-	-
Other coal products³									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Heat production (TJ)	-	-	-	-	-	-	-	-	-
Petroleum products									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	13	17	12	12	11	9	-	-2.6
Heat production (TJ)	-	9	11	8	9	8	6	-	-2.9
Natural gas²									
Fuel input (TJ)	-	20	55	77	85	129	89	-	11.3
Heat production (TJ)	-	12	37	51	65	97	65	-	12.8
Solid biofuels									
Fuel input (TJ)	-	5	47	95	102	116	123	-	25.7
Heat production (TJ)	-	4	40	81	86	99	105	-	26.3
Industrial waste									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Heat production (TJ)	-	-	-	-	-	-	-	-	-
Municipal waste									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Heat production (TJ)	-	-	-	-	-	-	-	-	-
Biogases and liquid biofuels									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Heat production (TJ)	-	-	-	-	-	-	-	-	-
Total combustible fuels									
Heat production (TJ)	-	25	88	140	160	204	176	-	15.0

1. Excludes CHP plants

2. Coal manufactured gases and natural gas are expressed on a gross calorific value basis.

3. Includes Coking coal as well as peat and peat products, patent fuels, BKB and shale oil

Luxembourg

Table 7. Net maximum electricity generating capacity on 31 December (GW)

	1974	1990	2000	2005	2010	2012	2013	2014
Total capacity¹	1.08	1.24	1.22	1.68	1.71	1.79	1.81	2.02
Nuclear	-	-	-	-	-	-	-	-
Hydro	0.91	1.13	1.13	1.13	1.13	1.13	1.13	1.33
<i>of which: pumped storage</i>	-	1.10	1.10	1.10	1.10	1.10	1.10	1.30
Geothermal	-	-	-	-	-	-	-	-
Solar PV	-	-	-	0.02	0.03	0.08	0.10	0.11
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	-	0.01	0.04	0.04	0.06	0.06	0.06
Other (e.g. fuel cells)	-	-	-	-	-	-	-	-
Combustible fuels	0.17	0.11	0.07	0.49	0.50	0.52	0.53	0.52
<i>of which⁽²⁾:</i>								
<i>Single-fired:</i>								
Coal and Coal products	0.05	0.03	-	-	-	-	-	-
Liquid fuels	0.02	0.01	-	-	-	-	-	-
Natural gas	-	-	0.06	0.48	0.49	0.49	0.49	0.49
Biofuels & waste	-	0.01	0.01	0.01	0.02	0.03	0.03	0.03
<i>Multi-fired:</i>								
Solid / liquid	-	-	-	-	-	-	-	-
Solid / natural gas	-	-	-	-	-	-	-	-
Liquid / natural gas	-	-	-	-	-	-	-	-
Solid / liquid / gas	0.10	0.06	-	-	-	-	-	-
<i>Type of generation</i>								
Steam	-	0.10	0.01	0.01	0.01	0.02	0.02	0.02
Internal combustion	-	0.01	0.03	0.08	0.10	0.10	0.10	0.10
Gas turbine	-	-	0.03	0.40	0.40	0.40	0.40	0.40
Combined cycle	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-
<i>Peak load</i>	0.59	1.04	1.12	1.02	1.01	1.04
Of which Autoproducers	0.17	0.10	0.02	0.08	0.09	0.14	0.16	0.17
Nuclear	-	-	-	-	-	-	-	-
Hydro	-	-	-	-	-	-	-	-
<i>of which: pumped storage</i>	-	-	-	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-	-
Solar PV	-	-	-	0.02	0.03	0.08	0.10	0.11
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	-	-	-	-	-	-	-
Other (e.g. fuel cells)	-	-	-	-	-	-	-	-
Combustible fuels	0.17	0.10	0.02	0.05	0.06	0.06	0.06	0.06

1. Sum of available capacity figures

2. Breakdown of electrical capacity by type of fuel are shown in the individual country chapters.

Luxembourg

Table 8. Capacity factors (%)

	1974	1990	2000	2005	2010	2012	2013	2014
Total plants¹	22.1	12.7	11.0	28.0	30.6	24.4	18.2	16.8
Nuclear	-	-	-	-	-	-	-	-
Hydro	11.6	8.3	8.8	8.8	14.8	11.7	11.7	10.0
<i>of which: pumped storage</i>	-	7.8	7.8	8.1	14.1	11.0	10.8	9.4
Geothermal	-	-	-	-	-	-	-	-
Solar PV	-	-	-	8.6	8.3	5.8	8.9	9.9
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	-	22.0	17.0	14.3	15.2	16.3	15.8
Other (e.g. fuel cells)	-	-	-	-	-	-	-	-
Combustible fuels	77.4	59.7	44.2	74.3	69.0	55.6	34.1	35.4
Of which autoproducers	77.4	59.1	25.2	30.3	26.8	18.9	19.4	18.1
Nuclear	-	-	-	-	-	-	-	-
Hydro	-	34.3	68.5	28.5	45.7	28.5	34.3	34.3
<i>of which: pumped storage</i>	-	-	-	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-	-
Solar PV	-	-	-	8.6	8.3	5.8	8.9	9.9
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	-	-	-	-	-	-	-
Other (e.g. fuel cells)	-	-	-	-	-	-	-	-
Combustible fuels	77.4	59.4	23.3	41.0	35.0	35.2	35.8	32.9

1. The capacity factor is defined as: the annual gross electricity generation (in GWh) divided by the net capacity (in GW) times 365 (days/year) times 24 (hours/day)

Luxembourg**Table 9a. Electricity imports by origin (GWh)**

	1974	1990	2000	2005	2010	2012	2013	2014
Total imports	3527	4678	6445	6392	7280	6732	6852	6961
Total from OECD	-	4678	6445	6392	7280	6732	6852	6961
Austria	-	-	-	-	-	-	-	-
Belgium	-	821	1967	1359	1118	1039	940	185
Canada	-	-	-	-	-	-	-	-
Czech Republic	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-
France	-	-	42	-	-	-	297	1118
Germany	-	3857	4436	5033	6162	5693	5615	5658
Greece	-	-	-	-	-	-	-	-
Hungary	-	-	-	-	-	-	-	-
Ireland	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-
Luxembourg	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-
Poland	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-
Slovak Republic	-	-	-	-	-	-	-	-
Slovenia	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-
Switzerland	-	-	-	-	-	-	-	-
Turkey	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-
United States	-	-	-	-	-	-	-	-
Total from non-OECD	-	-	-	-	-	-	-	-
Albania	-	-	-	-	-	-	-	-
Azerbaijan	-	-	-	-	-	-	-	-
Belarus	-	-	-	-	-	-	-	-
Bulgaria	-	-	-	-	-	-	-	-
Croatia	-	-	-	-	-	-	-	-
F.Y.R. of Macedonia	-	-	-	-	-	-	-	-
Georgia	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-
Romania	-	-	-	-	-	-	-	-
Russian Federation	-	-	-	-	-	-	-	-
Serbia	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-
Turkmenistan	-	-	-	-	-	-	-	-
Ukraine	-	-	-	-	-	-	-	-
Non-specified/others	3527	-	-	-	-	-	-	-

Luxembourg

Table 9b. Electricity exports by destination (GWh)

	1974	1990	2000	2005	2010	2012	2013	2014
Total exports	846	746	737	3131	3216	2622	1907	2067
Total to OECD	-	746	737	3131	3216	2622	1907	2067
Austria	-	-	-	-	-	-	-	-
Belgium	-	-	-	2346	1855	1560	868	1006
Canada	-	-	-	-	-	-	-	-
Czech Republic	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-
Germany	-	746	737	785	1361	1062	1039	1061
Greece	-	-	-	-	-	-	-	-
Hungary	-	-	-	-	-	-	-	-
Ireland	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-
Luxembourg	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-
Poland	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-
Slovak Republic	-	-	-	-	-	-	-	-
Slovenia	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-
Switzerland	-	-	-	-	-	-	-	-
Turkey	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-
United States	-	-	-	-	-	-	-	-
Total to non-OECD	-	-	-	-	-	-	-	-
Albania	-	-	-	-	-	-	-	-
Azerbaijan	-	-	-	-	-	-	-	-
Belarus	-	-	-	-	-	-	-	-
Bulgaria	-	-	-	-	-	-	-	-
Croatia	-	-	-	-	-	-	-	-
F.Y.R. of Macedonia	-	-	-	-	-	-	-	-
Georgia	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-
Romania	-	-	-	-	-	-	-	-
Russian Federation	-	-	-	-	-	-	-	-
Serbia	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-
Turkmenistan	-	-	-	-	-	-	-	-
Ukraine	-	-	-	-	-	-	-	-
Non-specified/others	846	-	-	-	-	-	-	-

Luxembourg

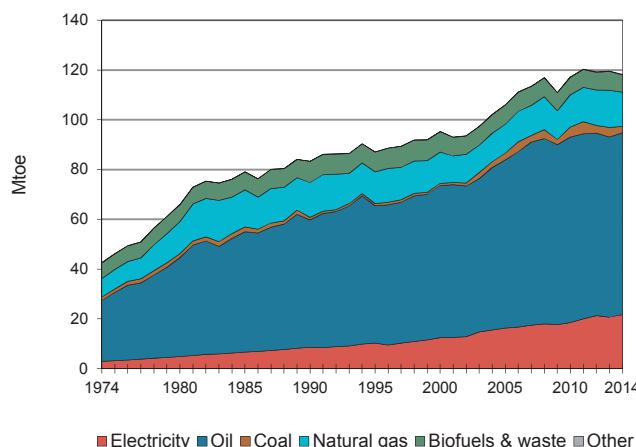
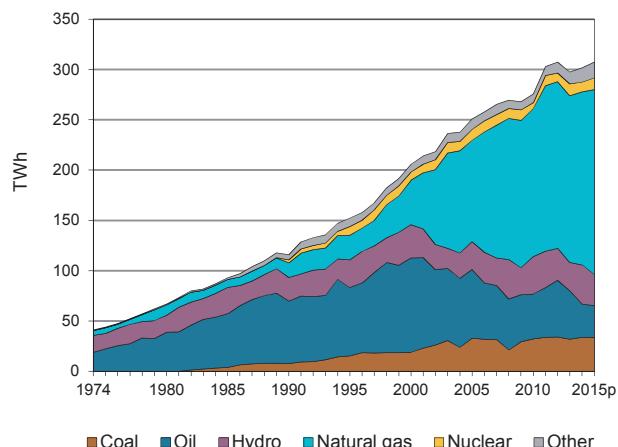
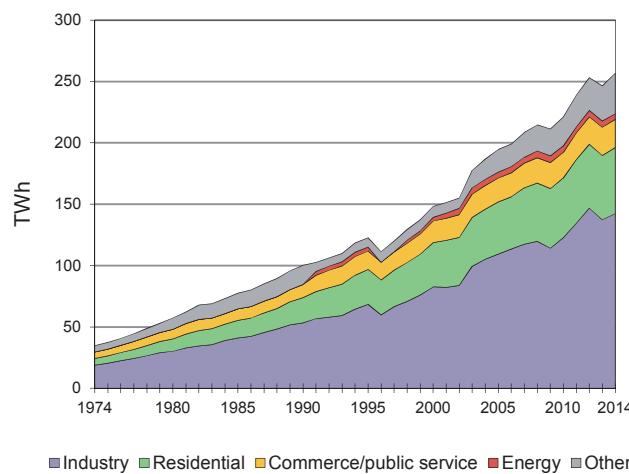
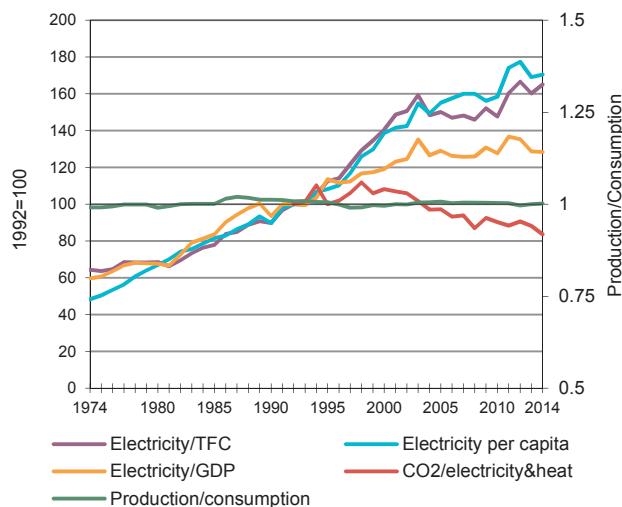
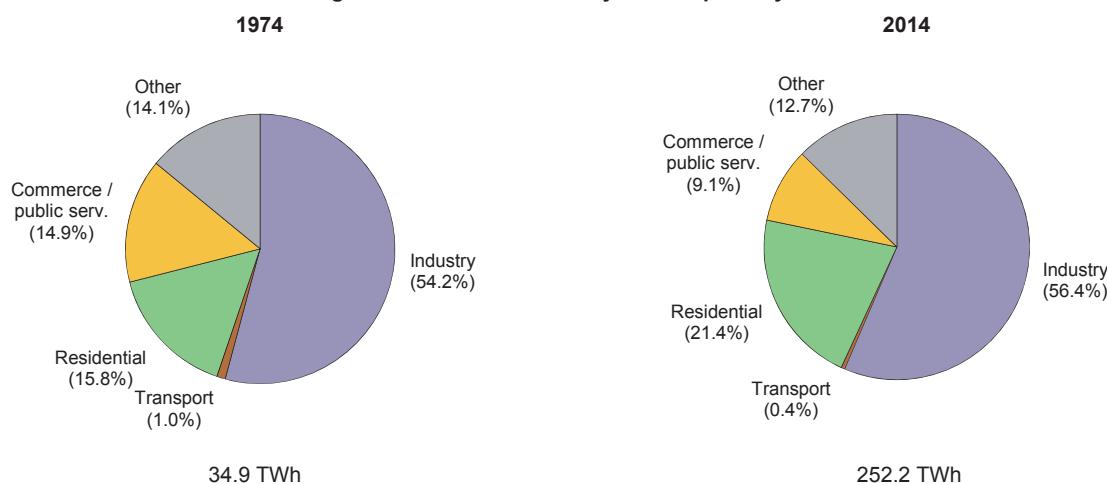
Table 10a. Share of electricity in total final consumption (%)

	1974	1990	2000	2005	2010	2012	2013	2014
Share of total final consumption	10.1	12.8	15.3	12.9	14.4	14.0	14.0	14.7
Industry	11.1	18.4	39.0	39.1	42.2	41.5	41.4	44.5
Iron and steel	9.0	11.5	45.9	43.0	46.8	44.0	43.1	48.1
Chem. and petrochemical	36.5	-	46.3	58.4	58.8	58.3	56.1	58.8
Non-ferrous metals	100.0	-	-	-	-	-	-	-
Non-metallic minerals	100.0	-	19.6	11.5	9.8	18.8	18.7	19.1
Transport equipment	-	-	64.6	73.5	73.0	56.6	55.9	59.8
Machinery	100.0	-	53.4	81.7	81.9	84.3	77.4	88.5
Mining and quarrying	100.0	-	49.9	45.3	44.0	51.3	51.3	51.3
Food and tobacco	81.0	-	45.2	60.9	64.2	67.2	68.8	72.3
Paper, pulp and printing	-	-	43.9	47.3	44.9	42.3	40.8	45.4
Wood and wood products	-	-	74.1	8.3	6.4	6.0	3.5	4.5
Construction	-	-	50.1	64.7	54.7	56.2	63.0	63.7
Textile and leather	100.0	-	43.7	38.1	41.1	33.0	26.7	34.5
Non specified/other	13.6	52.2	15.8	32.5	49.2	63.6	66.8	68.1
Transport	1.4	0.5	0.3	0.3	0.5	0.5	0.5	0.5
Rail Transport	24.4	100.0	42.0	72.6	77.2	73.2	68.6	72.2
Pipeline Transport	-	-	-	-	-	-	-	-
Road	-	-	-	-	-	-	-	-
Transport Non Specified	-	-	-	-	-	-	-	-
Other sectors	10.6	19.5	24.2	24.0	24.9	26.9	27.3	28.1
Commercial & publ. serv.	-	100.0	36.6	38.1	38.4	40.5	40.2	42.5
Residential	4.6	9.9	14.5	13.8	13.8	16.0	16.8	17.0
Agriculture	-	55.2	16.8	12.1	11.5	13.3	14.1	13.6
Fishing	-	-	-	-	-	-	-	-
Sector non specified	84.5	-	-	-	-	-	-	-

Table 10b. Share of heat in total final consumption (%)

	1974	1990	2000	2005	2010	2012	2013	2014
Share of total final consumption	-	-	0.4	1.8	1.9	1.9	2.0	2.4
Industry	-	-	-	1.6	1.8	1.7	2.0	2.2
Iron and steel	-	-	-	-	-	-	-	-
Chem. and petrochemical	-	-	-	6.8	9.4	8.6	8.7	9.7
Non-ferrous metals	-	-	-	-	-	-	-	-
Non-metallic minerals	-	-	-	-	-	-	-	-
Transport equipment	-	-	-	-	-	-	-	-
Machinery	-	-	-	0.3	0.3	1.4	1.3	-
Mining and quarrying	-	-	-	-	-	-	-	-
Food and tobacco	-	-	-	-	-	-	0.3	0.3
Paper, pulp and printing	-	-	-	-	-	-	0.3	0.3
Wood and wood products	-	-	-	-	-	-	-	-
Construction	-	-	-	-	-	-	-	-
Textile and leather	-	-	-	19.1	27.1	19.4	21.2	22.7
Non specified/other	-	-	-	-	0.6	0.1	0.5	0.6
Transport	-	-	-	-	-	-	-	-
Other sectors	-	-	1.5	6.7	6.2	6.6	6.8	8.0
Commercial & publ. serv.	-	-	3.3	16.0	13.7	14.9	15.1	18.3
Residential	-	-	-	-	-	-	-	-
Agriculture	-	-	-	-	-	-	-	-
Fishing	-	-	-	-	-	-	-	-
Sector non specified	-	-	-	-	-	-	-	-

Source: IEA/OECD World Energy Balances.

Mexico**Figure 1. Total final consumption by fuel****Figure 2. Electricity generation by fuel****Figure 3. Electricity consumption by sector****Figure 4. Electricity indicators****Figure 5. Total final electricity consumption by sector**

Mexico**Table 1. Energy consumption, GDP and population**

	1974	1990	2000	2010	2013	2014	2015p	74-00	00-15
TPES (Mtoe)	55.94	123.68	150.00	174.76	192.10	187.98	187.33	3.9	1.5
GDP (billion 2005 USD)	354.39	617.85	869.29	1049.93	1150.98	1176.66	1205.66	3.5	2.2
TPES/GDP ¹	0.16	0.20	0.17	0.17	0.17	0.16	0.16	0.3	-0.7
Population (millions)	58.94	87.07	100.90	114.26	118.40	119.71	121.10	2.1	1.2
TPES/population ²	0.95	1.42	1.49	1.53	1.62	1.57	1.55	1.7	0.3
TPES/GDP (2005 = 100)	84	107	92	89	89	85	83	0.3	-0.7
Ele.TFC/GDP(2005=100) ³	50	82	84	103	105	108	..	2.1	..
Ele.TFC/population ⁴	592	1151	1441	1888	2040	2108	..	3.5	..
Elec. generated (TWh) ⁵	40.98	115.84	205.68	275.54	297.33	301.50	307.42	6.4	2.7

Source: IEA/OECD *World Energy Balances* and OECD *Main Economic Indicators*.**Table 2. Total primary energy supply (TPES) by source**

	1974	1990	2000	2010	2013	2014	2015p	74-00	00-15
TPES (Mtoe)	55.94	123.68	150.00	174.76	192.10	187.98	187.33	3.9	1.5
Coal	2.00	4.13	6.88	13.26	12.91	12.65	13.59	4.9	4.6
Oil	34.79	80.79	88.52	90.67	98.92	96.40	90.08	3.7	0.1
Natural gas	10.96	23.12	35.47	54.22	62.15	60.51	65.76	4.6	4.2
Biofuels & waste	6.32	8.55	8.94	8.12	8.95	8.74	8.65	1.3	-0.2
Nuclear	-	0.77	2.14	1.53	3.08	2.52	3.02	-	2.3
Geothermal	0.40	4.41	5.07	3.63	3.14	3.10	3.18	10.3	-3.1
Solar, wind, tide ⁶	-	0.02	0.05	0.23	0.54	0.76	0.97	-	22.6
Hydro	1.44	2.02	2.85	3.19	2.41	3.34	2.65	2.7	-0.5
Net electricity imports ⁷	0.03	-0.12	0.08	-0.08	-0.00	-0.05	-0.58	3.5	-
Heat	-	-	-	-	-	-	-	-	-

Source: IEA/OECD *World Energy Balances*.

1. In units of toe/2005 thousand US dollars.

2. In units of toe/per capita.

3. Ele.TFC = electricity total final consumption.

4. In units of kWh/per capita.

5. Electricity generated = gross production - amount of electricity produced in pumped storage plants.

6. Includes wave, ocean and other (e.g. fuel cells).

7. Net Imports = total imports - total exports

Mexico**Table 3a. Summary electricity production and consumption¹ (TWh)**

	1974	1990	2000	2005	2010	2013	2014	2015e
Gross production	40.98	115.84	205.68	250.72	275.54	297.33	301.50	307.42
- Own use by power plant	1.48	5.83	10.57	14.85	11.20	10.24	11.45	-
Net production	39.51	110.01	195.10	235.87	264.34	287.09	290.05	-
- Used for heat pumps	-	-	-	-	-	-	-	-
- Used for electric boilers	-	-	-	-	-	-	-	-
- Used for pumped storage	-	-	-	-	-	-	-	-
+ Imports	0.35	0.58	1.07	0.12	0.40	1.21	2.12	2.44
- Exports	-	1.95	0.20	1.79	1.35	1.24	2.65	9.16
Electrical energy supplied	39.86	108.64	195.98	234.19	263.39	287.06	289.52	..
- Transmission & distr. losses	4.97	14.99	28.48	37.42	44.25	42.52	41.32	..
- Statistical difference	-	-6.54	19.16	2.22	-1.96	-1.96	-8.58	..
Total consumption	34.89	100.19	148.34	194.56	221.09	246.50	256.78	..
Energy industry consumption²	-	-	2.99	4.89	5.40	5.03	4.56	..
Coal Mines	-	-	-	-	-	-	-	..
Oil + Gas Extraction	-	-	0.86	2.28	2.89	2.75	2.70	..
Patent Fuel Plants	-	-	-	-	-	-	-	..
Coke Ovens	-	-	-	-	-	-	-	..
BKB plants	-	-	-	-	-	-	-	..
Gas Works	-	-	-	-	-	-	-	..
Blast Furnaces	-	-	-	-	-	-	-	..
Oil Refineries	-	-	2.13	2.60	2.51	2.29	1.86	..
Nuclear Industry	-	-	-	-	-	-	-	..
Coal Liquefaction Plants	-	-	-	-	-	-	-	..
LNG/Regasification Plants	-	-	-	-	-	-	-	..
Energy - Non Specified	-	-	-	-	-	-	-	..
Final consumption	34.89	100.19	145.35	189.67	215.69	241.47	252.22	..
Industry	18.91	53.39	82.66	109.33	122.71	137.39	142.33	..
Iron and steel	-	8.19	7.48	6.80	6.07	6.00	5.52	..
Chem. and petrochemical	-	8.89	6.08	6.20	6.34	6.18	6.90	..
Non-ferrous metals	-	1.20	1.16	0.82	0.71	0.86	0.84	..
Non-metallic minerals	-	3.41	10.46	10.31	10.01	11.20	10.35	..
Transport equipment	-	0.74	1.32	1.74	1.98	2.19	2.37	..
Machinery	-	-	-	-	-	-	-	..
Mining and quarrying	-	4.74	5.72	5.28	7.31	10.08	9.54	..
Food and tobacco	-	0.55	1.13	1.64	1.74	1.94	2.00	..
Paper, pulp and printing	-	2.57	2.44	3.07	2.68	2.86	2.94	..
Wood and wood products	-	-	0.08	0.02	0.07	0.07	0.07	..
Construction	-	0.30	0.40	0.43	0.46	0.49	0.51	..
Textile and leather	-	-	-	-	0.07	0.07	0.07	..
Non specified/other	18.91	22.82	46.40	73.03	85.28	95.47	101.22	..
Transport	0.36	0.80	1.10	1.09	1.19	1.13 e	1.13	..
Rail Transport	0.36	0.80	1.10	1.09	1.19	1.13 e	1.13	..
Pipeline Transport	-	-	-	-	-	-	-	..
Road	-	-	-	-	-	-	-	..
Transport Non Specified	-	-	-	-	-	-	-	..
Commercial & publ. serv.	5.51	20.39	36.13	42.53	48.70	52.37	53.91	..
Residential	5.21	10.87	17.56	19.44	20.70	23.00	22.94	..
Agriculture	2.07	6.71	7.90	8.07	8.60	10.28	10.03	..
Fishing	-	-	-	-	-	-	-	..
Sector non specified	2.83	8.03	-	9.21	13.79	17.29	21.88	..

1. Electricity generation from main activity producer power plants and autoproducers .

2. Energy industry consumption = electricity consumed by transformation industries for heating, traction and lighting purposes;

excludes own use by power plant and electricity used for heat pumps, electric boilers and pumped storage.

Mexico**Table 4a. Gross electricity production by source (TWh)**

	1974	1990	2000	2010	2013	2014	2015e	74-00	00-15
Total plants gross production¹	40.98	115.84	205.68	275.54	297.33	301.50	307.42	6.4	2.7
Nuclear	-	2.94	8.22	5.88	11.80	9.68	11.58	-	2.3
Hydro	16.71	23.48	33.13	37.13	28.00	38.89	30.84	2.7	-0.5
- Of which pumped storage	-	-	-	-	-	-	-	-	-
Geothermal	0.46	5.12	5.90	6.62	6.07	6.00	6.29	10.3	0.4
Solar	-	0.00	0.01	0.03	0.11	0.22	0.25	-	26.8
Wind	-	0.00	0.02	1.24	4.19	6.43	7.90	-	49.5
Combustible fuels	23.81	84.30	158.39	224.64	247.16	240.28	250.57	7.6	3.1
- Coal	..	7.77	18.99	32.28	31.96	33.88	33.89	..	3.9
- Oil	..	62.06	93.60	44.59	48.12	33.01	31.49	..	-7.0
- Natural gas	..	14.46	44.13	146.99	165.76	171.96	183.74	..	10.0
- Biofuels & waste	..	-	1.67	0.78	1.32	1.43	1.44	..	-1.0
Other ²	-	-	-	-	-	-	-	-	-
Of which autoproducers	2.98	0.14	13.10	33.00	38.51	43.24	..	5.9	..
Nuclear	-	-	-	-	-	-	..	-	..
Hydro	0.11	0.14	0.06	0.39	0.56	0.75	..	-2.3	..
- Of which pumped storage	-	-	-	-	-	-	..	-	..
Geothermal	-	-	-	-	-	-	..	-	..
Solar	-	0.00	0.01	0.03	0.09	0.21	..	-	..
Wind	-	0.00	0.01	1.07	2.37	4.35	..	-	..
Combustible fuels	2.87	-	13.02	31.50	35.48	37.93	..	6.0	..
- Coal	..	-	0.45	0.34	0.46	0.38
- Oil	..	-	3.55	6.84	6.27	6.18
- Natural gas	..	-	7.35	23.55	27.43	29.94
- Biofuels & waste	..	-	1.67	0.78	1.32	1.43
Other ²	-	-	-	-	-	-	..	-	..

Table 4b. Gross heat production by source (PJ)

	1974	1990	2000	2010	2013	2014	2015e	74-00	00-15
Total plants heat generation³	-	-	-	-	-	-	-	-	-
Nuclear	-	-	-	-	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-	-	-
Combustible fuels	-	-	-	-	-	-	-	-	-
- Coal	..	-	-	-	-	-	-
- Oil	..	-	-	-	-	-	-
- Natural gas	..	-	-	-	-	-	-
- Biofuels & waste	..	-	-	-	-	-	-
Chemical processes	-	-	-	-	-	-	-	-	-
Heat pumps	-	-	-	-	-	-	-	-	-
Electric boilers	-	-	-	-	-	-	-	-	-
Other sources	-	-	-	-	-	-	-	-	-
Of which Autoproducers	-	-	-	-	-	-	..	-	..
Nuclear	-	-	-	-	-	-	..	-	..
Geothermal	-	-	-	-	-	-	..	-	..
Combustible fuels	-	-	-	-	-	-	..	-	..
- Coal	..	-	-	-	-	-
- Oil	..	-	-	-	-	-
- Natural gas	..	-	-	-	-	-
- Biofuels & waste	..	-	-	-	-	-
Chemical processes	-	-	-	-	-	-	..	-	..
Heat pumps	-	-	-	-	-	-	..	-	..
Electric boilers	-	-	-	-	-	-	..	-	..
Other sources	-	-	-	-	-	-	..	-	..

1. Electricity generated from main activity producer power plants and autoproducers.

2. Includes wave, ocean and other sources (e.g. fuel cells, electricity from chemical heat).

3. Total heat generation = gross production of heat from main activity producer + heat sold in autoproducers.

Mexico**Table 5. Net electricity production by autoproducers (GWh)**

	1974	1990	2000	2010	2012	2013	2014	74-00	00-14
Total	2834	135	12021	30993	43146	36586	41141	5.7	9.2
Total energy	-	-	2989	5397	5355	5033	4554	-	3.1
Coal mines	-	-	-	-	-	-	-	-	-
Oil and gas extraction	-	-	855	2886	2929	2747	2690	-	8.5
Patent fuel plants	-	-	-	-	-	-	-	-	-
Coke ovens	-	-	-	-	-	-	-	-	-
Gas works	-	-	-	-	-	-	-	-	-
BKB	-	-	2134	2511	2426	2286	1864	-	-1.0
Oil refineries	-	-	-	-	-	-	-	-	-
Energy non specified/other	-	-	-	-	-	-	-	-	-
Total industry	-	-	6980	12259	12459	14137	17859	-	6.9
Iron and steel	-	-	894	734	749	845	1191	-	2.1
Chemical and petrochemical	-	-	3735	4695	4472	6067	6684	-	4.2
Non-ferrous metals	-	-	-	-	-	-	-	-	-
Non-metallic minerals	-	-	-	2669	2842	2647	2945	-	-
Transport equipment	-	-	-	-	-	-	-	-	-
Machinery	-	-	-	-	-	-	-	-	-
Mining and quarrying	-	-	174	2190	2243	2283	4217	-	25.6
Food and tobacco	-	-	1129	1331	1512	1590	1759	-	3.2
Pulp and printing	-	-	798	581	611	653	859	-	0.5
Wood and wood products	-	-	-	-	-	-	-	-	-
Construction	-	-	-	-	-	-	-	-	-
Textile and leather	-	-	250	59	30	52	204	-	-1.4
Non specified/other industries	-	-	-	-	-	-	-	-	-
Total transport	-	-	-	-	-	-	-	-	-
Rail	-	-	-	-	-	-	-	-	-
Pipeline	-	-	-	-	-	-	-	-	-
Transport non specified	-	-	-	-	-	-	-	-	-
Other	2834	135	2052	13337	25332	17416	18728	-1.2	17.1
Commerce and pub. services	-	-	9	424	506	433	431	-	31.8
Residential	-	-	-	-	-	-	-	-	-
Agriculture	-	-	1	1	5	3	5	-	12.2
Fishing	-	-	-	-	-	-	-	-	-
Sector non specified	2834	135	2042	12912	24821	16980	18292	-1.3	17.0

Notes: Data reported in this table prior to 1990 may refer to combustible fuels only.

Mexico**Table 6a. Electricity production from combustible fuels in electricity plants¹**

	1990	2000	2005	2010	2012	2013	2014	90-00	00-14
Steam coal									
Fuel input (1000 t)	3970	9566	14914	14774	15521	14556	15615	9.2	3.6
Fuel input (TJ)	72242	183055	328084	316449	338896	316705	342483	9.7	4.6
Electricity production (GWh)	7774	18547	32456	32018	33937	31619	33575	9.1	4.3
Lignite									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
Coal manufactured gases²									
Fuel input (TJ)	-	16424	6797	7556	4002	4963	5106	-	-8.0
Electricity production (GWh)	-	447	286	264	221	341	306	-	-2.7
Other coal products³									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
Oil and petroleum products									
Fuel input (1000 t)	15732	24145	16954	10685	12533	12261	8825	4.4	-6.9
Fuel input (TJ)	687823	1087465	592134	394721	458807	447917	323161	4.7	-8.3
Electricity production (GWh)	62062	93547	68323	42881	54789	46669	31864	4.2	-7.4
Natural gas²									
Fuel input (TJ)	159666	441710	846965	1213042	1374836	1247478	1300865	10.7	8.0
Electricity production (GWh)	14460	40747	93670	136311	155492	153132	158389	10.9	10.2
Solid biofuels									
Fuel input (TJ)	-	31321	46828	41080	37136	46794	62918	-	5.1
Electricity production (GWh)	-	1655	3046	610	609	754	900	-	-4.3
Industrial waste									
Fuel input (TJ)	-	-	-	533	1066	717	222	-	-
Electricity production (GWh)	-	-	-	48	108	61	17	-	-
Municipal waste									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
Biogases and liquid biofuels									
Fuel input (TJ)	-	357	627	141	517	536	678	-	4.7
Electricity production (GWh)	-	17	28	12	42	46	55	-	8.7
Total combustible fuels									
Electricity production (GWh)	84296	154960	197809	212144	245198	232622	225106	6.3	2.7

1. Excludes CHP plants.

2. Coal manufactured gases and natural gas are expressed on a gross calorific value basis.

3. Includes Coking coal as well as peat and peat products, patent fuels, BKB and shale oil

Mexico**Table 6b. Electricity and heat produced for sale from combustible fuels
in combined heat and power plants (CHP plants)**

	1990	2000	2005	2010	2012	2013	2014	90-00	00-14
Steam coal									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
CHP Heat production (TJ)	-	-	-	-	-	-	-	-	-
Lignite									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
CHP Heat production (TJ)	-	-	-	-	-	-	-	-	-
Coal manufactured gases¹									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
CHP Heat production (TJ)	-	-	-	-	-	-	-	-	-
Other coal products²									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
CHP Heat production (TJ)	-	-	-	-	-	-	-	-	-
Petroleum products									
Fuel input (1000 t)	-	12	44	574	549	515	433	-	29.2
Fuel input (TJ)	-	523	1719	23091	22021	20956	18314	-	28.9
Electricity production (GWh)	-	52	146	1706	1432	1453	1142	-	24.7
CHP Heat production (TJ)	-	-	-	-	-	-	-	-	-
Natural gas¹									
Fuel input (TJ)	-	57111	93732	150572	148746	175593	183968	-	8.7
Electricity production (GWh)	-	3382	6972	10683	10000	12627	13573	-	10.4
CHP Heat production (TJ)	-	-	-	-	-	-	-	-	-
Solid Biofuels									
Fuel input (TJ)	-	-	-	-	4549	7062	8365	-	-
Electricity production (GWh)	-	-	-	-	146	265	289	-	-
CHP Heat production (TJ)	-	-	-	-	-	-	-	-	-
Industrial waste									
Fuel input (TJ)	-	-	-	-	7856	973	639	-	-
Electricity production (GWh)	-	-	-	-	158	81	60	-	-
CHP Heat production (TJ)	-	-	-	-	-	-	-	-	-
Municipal waste									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
CHP Heat production (TJ)	-	-	-	-	-	-	-	-	-
Biogases and liquid biofuels									
Fuel input (TJ)	-	-	-	1157	1305	1434	1261	-	-
Electricity production (GWh)	-	-	-	106	107	115	109	-	-
CHP Heat production (TJ)	-	-	-	-	-	-	-	-	-
Total combustible fuels									
Electricity production (GWh)	-	3434	7118	12495	11843	14541	15173	-	11.2
CHP Heat production (TJ)	-	-	-	-	-	-	-	-	-

1. Coal manufactured gases and natural gas are expressed on a gross calorific value basis.

2. Includes Coking coal as well as peat and peat products, patent fuels, BKB and shale oil

Mexico**Table 7. Net maximum electricity generating capacity on 31 December (GW)**

	1974	1990	2000	2005	2010	2012	2013	2014
Total capacity¹	9.92	27.37	40.35	52.50	61.39	64.08	64.09	66.24
Nuclear	-	0.68	1.37	1.37	1.37	1.40	1.40	1.40
Hydro	3.55	7.84	9.65	10.60	11.60	11.63	11.63	12.46
<i>of which: pumped storage</i>	-	-	-	-	-	-	-	-
Geothermal	0.08	0.70	0.86	0.96	0.97	0.82	0.82	0.81
Solar PV	-	-	0.01	0.02	0.03	0.05	0.07	0.10
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	-	0.02	0.02	0.52	1.82	2.12	2.57
Other (e.g. fuel cells)	-	-	-	-	-	-	-	-
Combustible fuels	6.29	18.16	28.44	39.54	46.91	48.36	48.05	48.89
<i>of which⁽²⁾:</i>								
<i>Single-fired:</i>								
Coal and Coal products	-	1.20	2.60	2.60	2.66	2.68	2.69	2.70
Liquid fuels	1.52	11.79	11.42	7.87	9.36	9.66	9.86	9.97
Natural gas	-	4.55	4.89	16.15	19.85	20.82	20.52	20.62
Biofuels & waste	-	0.05	0.04	0.07	0.05	0.06	0.09	0.10
<i>Multi-fired:</i>								
Solid / liquid	-	0.41	2.51	2.53	3.21	3.47	3.31	3.35
Solid / natural gas	-	-	-	-	-	-	-	-
Liquid / natural gas	-	0.15	6.98	10.33	11.79	11.68	11.59	12.15
Solid / liquid / gas	-	-	-	-	-	-	-	-
<i>Type of generation</i>								
Steam	4.35	13.42	19.83	18.72	19.98	19.15	19.22	19.46
Internal combustion	0.81	0.15	0.40	0.94	1.22	1.20	1.17	1.25
Gas turbine	0.97	2.79	3.97	4.63	4.56	4.91	4.53	4.95
Combined cycle	0.13	1.80	3.66	14.35	20.56	22.50	22.53	22.65
Other	0.03	-	0.58	0.91	0.60	0.60	0.60	0.60
<i>Peak load</i>	27.38	32.32	39.85	40.40	39.02	40.27
Of which Autoproducers	1.55	2.07	3.65	5.96	8.80	11.74	10.60	11.86
Nuclear	-	-	-	-	-	-	-	-
Hydro	0.03	0.03	0.03	0.06	0.09	0.13	0.12	0.20
<i>of which: pumped storage</i>	-	-	-	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-	-
Solar PV	-	-	0.01	0.02	0.03	0.05	0.06	0.09
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	-	0.02	0.02	0.43	1.22	1.52	1.97
Other (e.g. fuel cells)	-	-	-	-	-	-	-	-
Combustible fuels	1.52	2.04	3.59	5.87	8.24	10.35	8.89	9.60

1. Sum of available capacity figures

2. Breakdown of electrical capacity by type of fuel are shown in the individual country chapters.

Mexico**Table 8. Capacity factors (%)**

	1974	1990	2000	2005	2010	2012	2013	2014
Total plants¹	47.2	48.3	58.2	54.5	51.2	54.7	53.0	52.0
Nuclear	-	49.7	68.8	90.4	49.2	71.5	96.2	78.9
Hydro	53.7	34.2	39.2	29.8	36.6	31.3	27.5	35.6
<i>of which: pumped storage</i>	-	-	-	-	-	-	-	-
Geothermal	70.5	83.6	78.8	86.8	78.3	80.6	84.2	84.3
Solar PV	-	-	5.7	6.4	12.2	14.9	18.1	25.5
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	3.8	12.8	12.1	27.3	23.2	22.5	28.6
Other (e.g. fuel cells)	-	-	-	-	-	-	-	-
Combustible fuels	43.2	53.0	63.6	59.2	54.7	60.7	58.7	56.1
Of which autoproducers	22.0	0.8	41.0	60.8	42.8	43.8	41.5	41.6
Nuclear	-	-	-	-	-	-	-	-
Hydro	40.7	48.4	19.5	8.8	47.7	50.5	51.4	43.8
<i>of which: pumped storage</i>	-	-	-	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-	-
Solar PV	-	-	5.7	6.4	12.2	16.3	17.4	25.5
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	3.8	8.4	10.0	28.2	18.2	17.8	25.2
Other (e.g. fuel cells)	-	-	-	-	-	-	-	-
Combustible fuels	21.6	-	41.5	61.6	43.6	46.8	45.6	45.1

1. The capacity factor is defined as: the annual gross electricity generation (in GWh) divided by the net capacity (in GW) times 365 (days/year) times 24 (hours/day)

Mexico**Table 9a. Electricity imports by origin (GWh)**

	1974	1990	2000	2005	2010	2012	2013	2014
Total imports	354	576	1069	116	397	2177	1210	2124
Total from OECD	354	576	1069	116	397	2149	1181	2119
Austria	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-
Canada	-	-	-	-	-	-	-	-
Czech Republic	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-
Greece	-	-	-	-	-	-	-	-
Hungary	-	-	-	-	-	-	-	-
Ireland	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-
Luxembourg	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-
Poland	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-
Slovak Republic	-	-	-	-	-	-	-	-
Slovenia	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-
Switzerland	-	-	-	-	-	-	-	-
Turkey	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-
United States	354	576	1069	116	397	2149	1181	2119
Total from non-OECD	-	-	-	-	-	-	-	-
Albania	-	-	-	-	-	-	-	-
Azerbaijan	-	-	-	-	-	-	-	-
Belarus	-	-	-	-	-	-	-	-
Bulgaria	-	-	-	-	-	-	-	-
Croatia	-	-	-	-	-	-	-	-
F.Y.R. of Macedonia	-	-	-	-	-	-	-	-
Georgia	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-
Romania	-	-	-	-	-	-	-	-
Russian Federation	-	-	-	-	-	-	-	-
Serbia	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-
Turkmenistan	-	-	-	-	-	-	-	-
Ukraine	-	-	-	-	-	-	-	-
Non-specified/others	-	-	-	-	-	28	29	5

Mexico**Table 9b. Electricity exports by destination (GWh)**

	1974	1990	2000	2005	2010	2012	2013	2014
Total exports	-	1945	195	1788	1348	1116	1240	2653
Total to OECD	-	1945	70	1533	840	648	802	1911
Austria	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-
Canada	-	-	-	-	-	-	-	-
Czech Republic	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-
Greece	-	-	-	-	-	-	-	-
Hungary	-	-	-	-	-	-	-	-
Ireland	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-
Luxembourg	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-
Poland	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-
Slovak Republic	-	-	-	-	-	-	-	-
Slovenia	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-
Switzerland	-	-	-	-	-	-	-	-
Turkey	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-
United States	-	1945	70	1533	840	648	802	1911
Total to non-OECD	-	-	-	-	-	-	-	-
Albania	-	-	-	-	-	-	-	-
Azerbaijan	-	-	-	-	-	-	-	-
Belarus	-	-	-	-	-	-	-	-
Bulgaria	-	-	-	-	-	-	-	-
Croatia	-	-	-	-	-	-	-	-
F.Y.R. of Macedonia	-	-	-	-	-	-	-	-
Georgia	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-
Romania	-	-	-	-	-	-	-	-
Russian Federation	-	-	-	-	-	-	-	-
Serbia	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-
Turkmenistan	-	-	-	-	-	-	-	-
Ukraine	-	-	-	-	-	-	-	-
Non-specified/others	-	-	125	255	508	468	438	742

Mexico**Table 10a. Share of electricity in total final consumption (%)**

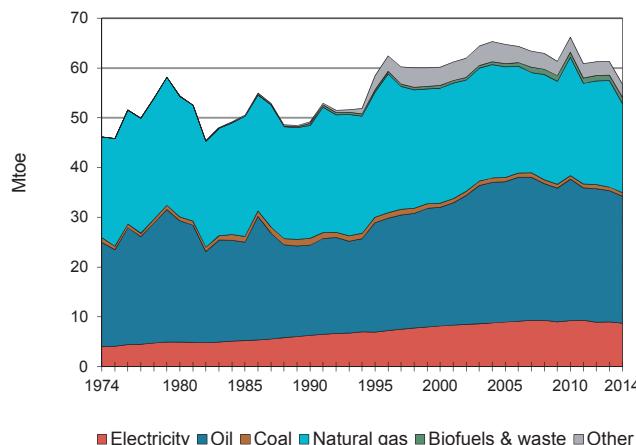
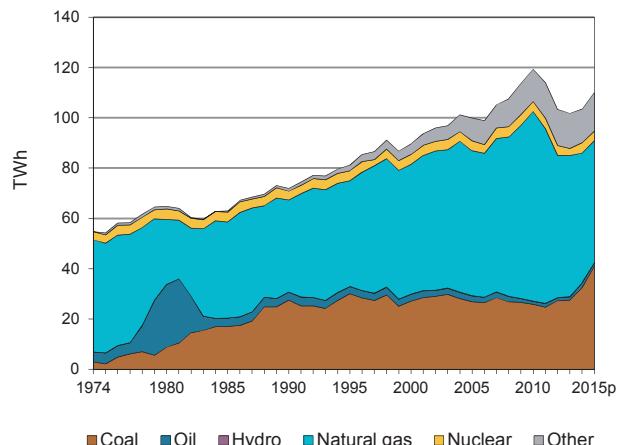
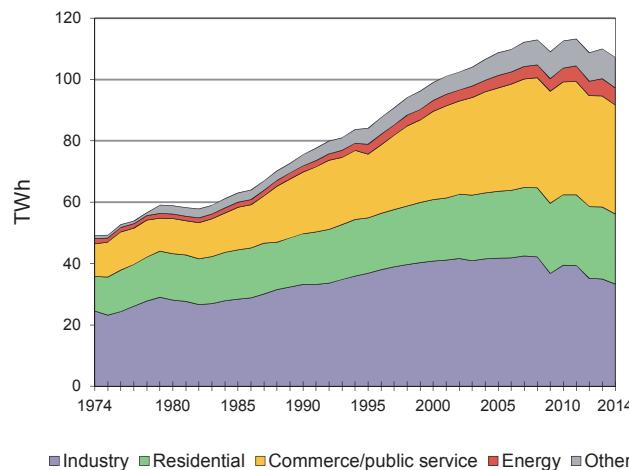
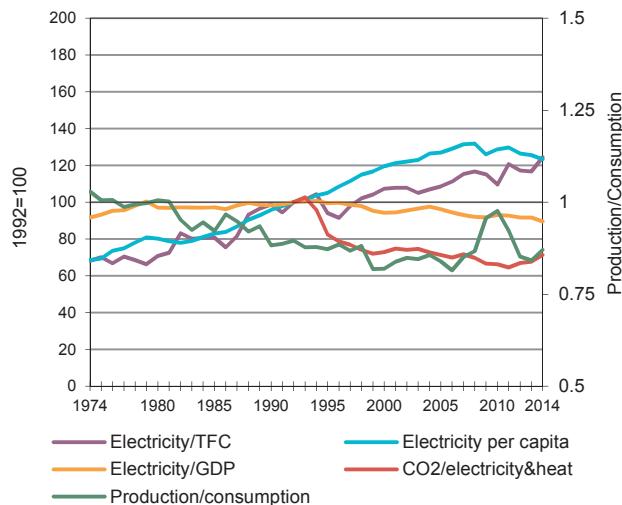
	1974	1990	2000	2005	2010	2012	2013	2014
Share of total final consumption	7.1	10.3	13.1	15.4	15.8	17.9	17.4	18.3
Industry	10.6	17.8	25.5	30.5	32.2	35.9	32.8	36.7
Iron and steel	-	16.7	16.1	14.1	13.0	13.3	12.5	12.1
Chem. and petrochemical	-	10.6	7.5	12.3	12.2	11.5	11.0	14.5
Non-ferrous metals	-	100.0	98.9	98.4	98.2	100.0	100.0	100.0
Non-metallic minerals	-	10.1	22.9	18.6	18.7	18.8	20.4	17.8
Transport equipment	-	56.6	68.8	74.7	71.6	61.5	59.9	72.1
Machinery	-	-	-	-	-	-	-	-
Mining and quarrying	-	36.5	48.2	45.2	55.0	56.9	59.5	59.5
Food and tobacco	-	1.4	3.9	6.0	10.5	10.4	7.6	11.7
Paper, pulp and printing	-	17.3	18.6	24.6	22.5	21.9	21.3	23.9
Wood and wood products	-	-	100.0	100.0	100.0	100.0	100.0	100.0
Construction	-	18.2	17.9	17.6	13.3	14.5	13.8	15.2
Textile and leather	-	-	-	-	100.0	100.0	100.0	100.0
Non specified/other	19.6	37.3	51.1	49.8	47.5	54.5	48.9	55.4
Transport	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2
Rail Transport	100.0	9.6	14.5	13.4	15.0	14.4	13.3 e	13.4
Pipeline Transport	-	-	-	-	-	-	-	-
Road	-	-	-	-	-	-	-	-
Transport Non Specified	-	-	-	-	-	-	-	-
Other sectors	11.8	19.6	21.8	27.3	30.3	31.8	33.1	34.3
Commercial & publ. serv.	37.8	63.1	44.3	49.0	50.2	51.8	50.7	50.6
Residential	5.6	11.1	17.2	20.7	23.5	24.8	25.7	26.1
Agriculture	11.7	25.7	24.0	22.2	21.0	23.4	23.4	22.9
Fishing	-	-	-	-	-	-	-	-
Sector non specified	100.0	100.0	-	100.0	100.0	100.0	100.0	100.0

Table 10b. Share of heat in total final consumption (%)

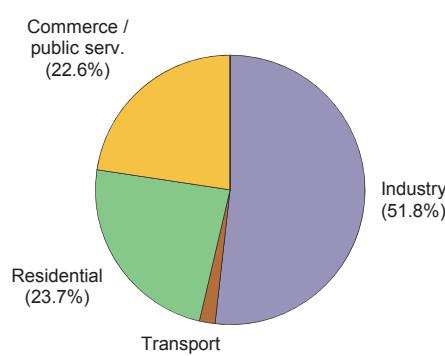
	1974	1990	2000	2005	2010	2012	2013	2014
Share of total final consumption	-	-	-	-	-	-	-	-
Industry	-	-	-	-	-	-	-	-
Iron and steel	-	-	-	-	-	-	-	-
Chem. and petrochemical	-	-	-	-	-	-	-	-
Non-ferrous metals	-	-	-	-	-	-	-	-
Non-metallic minerals	-	-	-	-	-	-	-	-
Transport equipment	-	-	-	-	-	-	-	-
Machinery	-	-	-	-	-	-	-	-
Mining and quarrying	-	-	-	-	-	-	-	-
Food and tobacco	-	-	-	-	-	-	-	-
Paper, pulp and printing	-	-	-	-	-	-	-	-
Wood and wood products	-	-	-	-	-	-	-	-
Construction	-	-	-	-	-	-	-	-
Textile and leather	-	-	-	-	-	-	-	-
Non specified/other	-	-	-	-	-	-	-	-
Transport	-	-	-	-	-	-	-	-
Other sectors	-	-	-	-	-	-	-	-
Commercial & publ. serv.	-	-	-	-	-	-	-	-
Residential	-	-	-	-	-	-	-	-
Agriculture	-	-	-	-	-	-	-	-
Fishing	-	-	-	-	-	-	-	-
Sector non specified	-	-	-	-	-	-	-	-

Source: IEA/OECD *World Energy Balances*.

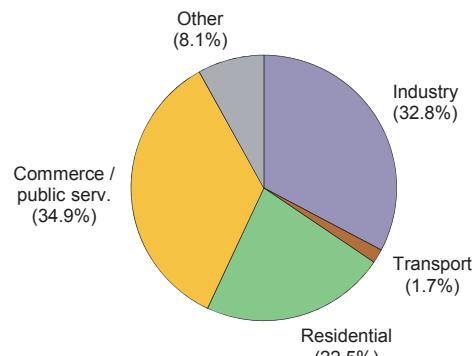
Netherlands

Figure 1. Total final consumption by fuel**Figure 2. Electricity generation by fuel****Figure 3. Electricity consumption by sector****Figure 4. Electricity indicators****Figure 5. Total final electricity consumption by sector**

1974



2014



Netherlands**Table 1. Energy consumption, GDP and population**

	1974	1990	2000	2010	2013	2014	2015p	74-00	00-15
TPES (Mtoe)	60.97	65.71	75.47	83.50	77.30	72.95	71.71	0.8	-0.3
GDP (billion 2005 USD)	369.20	530.53	734.69	836.39	837.15	845.61	862.45	2.7	1.1
TPES/GDP ¹	0.17	0.12	0.10	0.10	0.09	0.09	0.08	-1.8	-1.4
Population (millions)	13.54	14.95	15.92	16.61	16.80	16.86	16.93	0.6	0.4
TPES/population ²	4.50	4.40	4.74	5.03	4.60	4.33	4.24	0.2	-0.7
TPES/GDP (2005 = 100)	159	119	99	96	89	83	80	-1.8	-1.4
Ele.TFC/GDP(2005=100) ³	96	104	98	97	94	90	..	0.0	..
Ele.TFC/population ⁴	3499	4920	6000	6504	6215	6029	..	2.1	..
Elec. generated (TWh) ⁵	54.76	71.94	89.63	119.27	101.74	103.42	110.00	1.9	1.4

Source: IEA/OECD *World Energy Balances* and OECD *Main Economic Indicators*.**Table 2. Total primary energy supply (TPES) by source**

	1974	1990	2000	2010	2013	2014	2015p	74-00	00-15
TPES (Mtoe)	60.97	65.71	75.47	83.50	77.30	72.95	71.71	0.8	-0.3
Coal	2.89	8.93	7.77	7.54	8.12	9.01	11.00	3.9	2.3
Oil	26.76	23.28	28.11	31.50	29.30	28.51	26.43	0.2	-0.4
Natural gas	30.59	30.80	34.98	39.20	33.31	28.83	28.08	0.5	-1.5
Biofuels & waste	-	0.97	1.84	3.59	3.65	3.62	3.59	-	4.6
Nuclear	0.85	0.91	1.02	1.03	0.75	1.07	1.01	0.7	-0.1
Geothermal	-	-	-	0.01	0.02	0.04	0.06	-	-
Solar, wind, tide ⁶	-	0.01	0.10	0.39	0.56	0.61	0.78	-	14.3
Hydro	-	0.01	0.01	0.01	0.01	0.01	0.01	-	-2.8
Net electricity imports ⁷	-0.13	0.79	1.63	0.24	1.57	1.27	0.75	-	-5.0
Heat	-	-	-	-	-	-	-	-	-

Source: IEA/OECD *World Energy Balances*.

1. In units of toe/2005 thousand US dollars.
2. In units of toe/per capita.
3. Ele.TFC = electricity total final consumption.
4. In units of kWh/per capita.
5. Electricity generated = gross production - amount of electricity produced in pumped storage plants.
6. Includes wave, ocean and other (e.g. fuel cells).
7. Net Imports = total imports - total exports

Netherlands**Table 3a. Summary electricity production and consumption¹ (TWh)**

	1974	1990	2000	2005	2010	2013	2014	2015e
Gross production	54.76	71.94	89.63	99.92	119.27	101.74	103.42	110.00
- Own use by power plant	1.54	2.52	3.63	4.32	4.44	4.80	4.64	-
Net production	53.22	69.42	86.00	95.60	114.83	96.94	98.77	-
- Used for heat pumps	-	-	-	-	-	-	-	-
- Used for electric boilers	-	-	-	-	-	-	-	-
- Used for pumped storage	-	-	-	-	-	-	-	-
+ Imports	0.01	9.68	22.95	23.69	15.58	33.25	32.86	30.76
- Exports	1.49	0.47	4.03	5.40	12.81	15.02	18.13	22.01
Electrical energy supplied	51.74	78.62	104.91	113.89	117.60	115.17	113.50	..
- Transmission & distr. losses	2.69	3.13	4.92	5.41	5.63	5.13	4.93	..
- Statistical difference	-	-0.01	0.98	-0.26	-0.58	0.02	1.35	..
Total consumption	49.06	75.51	99.02	108.74	112.55	110.03	107.22	..
Energy industry consumption²	1.68	2.00	3.51	4.08	4.55	5.65	5.59	..
Coal Mines	0.29	-	-	-	-	-	-	..
Oil + Gas Extraction	0.20	0.13	0.85	1.24	1.65	2.71	2.60	..
Patent Fuel Plants	-	-	-	-	-	-	-	..
Coke Ovens	0.08	0.12	0.08	0.09	0.08	0.09	0.09	..
BKB plants	-	-	-	-	-	-	-	..
Gas Works	-	-	-	-	-	-	-	..
Blast Furnaces	-	-	-	-	-	-	-	..
Oil Refineries	1.10	1.75	2.46	2.60	2.66	2.63	2.66	..
Nuclear Industry	-	-	-	-	-	-	-	..
Coal Liquefaction Plants	-	-	-	-	-	-	-	..
LNG/Regasification Plants	-	-	-	-	-	-	-	..
Energy - Non Specified	0.02	-	0.13	0.15	0.17	0.23	0.24	..
Final consumption	47.38	73.51	95.50	104.67	108.00	104.37	101.63	..
Industry	24.53	33.24	40.85	41.80	39.46	34.97	33.29	..
Iron and steel	2.17	2.27	2.62	2.72	2.64	2.65	2.70	..
Chem. and petrochemical	9.40	11.63	12.09	12.88	13.46	12.62	12.21	..
Non-ferrous metals	4.54	5.29	5.95	6.33	4.78	2.84	1.63	..
Non-metallic minerals	1.05	1.50	1.69	1.44	1.46	1.22	1.17	..
Transport equipment	-	0.51	0.64	0.58	0.71	0.55	0.55	..
Machinery	2.04	3.08	3.55	3.57	3.42	2.69	2.85	..
Mining and quarrying	0.00	0.11	0.23	0.19	0.44	0.25	0.20	..
Food and tobacco	2.31	4.64	6.38	6.57	6.37	6.19	6.34	..
Paper, pulp and printing	1.79	2.90	3.80	3.64	2.69	2.56	2.30	..
Wood and wood products	0.19	0.25	0.29	0.24	0.24	0.17	0.20	..
Construction	0.25	0.43	1.03	0.97	1.01	0.94	0.87	..
Textile and leather	0.64	0.52	0.55	0.41	0.39	0.38	0.34	..
Non specified/other	0.15	0.11	2.03	2.27	1.86	1.93	1.93	..
Transport	0.90	1.27	1.64	1.62	1.76	1.75	1.72	..
Rail Transport	0.90	1.27	1.63	1.61	1.75	1.72	1.65	..
Pipeline Transport	-	-	-	-	-	-	-	..
Road	-	-	0.01	0.01	0.01	0.03	0.07	..
Transport Non Specified	-	-	-	-	-	-	-	..
Commercial & publ. serv.	11.24	16.50	20.02	21.80	22.99	23.45	22.90	..
Residential	10.70	20.12	28.80	33.70	36.77	36.24	35.51	..
Agriculture	-	2.38	4.20	5.75	6.93	7.86	8.13	..
Fishing	-	-	-	-	-	-	-	..
Sector non specified	-	-	-	-	0.10	0.10	0.10	..

1. Electricity generation from main activity producer power plants and autoproducers .

2. Energy industry consumption = electricity consumed by transformation industries for heating, traction and lighting purposes;

excludes own use by power plant and electricity used for heat pumps, electric boilers and pumped storage.

Netherlands**Table 3b. Summary heat production and consumption¹ (TJ)**

	1974	1990	2000	2005	2010	2013	2014	2015e
Gross production	-	15058	172367	178496	159878	150090	147157	140938
- Own use by power plant	-	-	-	-	-	-	-	-
Net production	-	15058	172367	178496	159878	150090	147157	-
- Used for electricity production	-	-	9317	8192	13987	17813	17051	14571
+ Imports	-	-	-	-	-	-	-	-
- Exports	-	-	-	-	-	-	-	-
Heat energy supplied	-	15058	163050	170304	145891	132277	130106	..
- Transmission & distr. losses	-	2232	4522	5054	4168	3475	3125	..
- Statistical difference	-	-	12	-10	-877	-1074	1475	..
Total consumption	-	12826	158516	165260	142600	129876	125506	..
Energy industry consumption²	-	-	3677	4099	16993	17112	16411	..
Coal Mines	-	-	-	-	-	-	-	..
Oil + Gas Extraction	-	-	-	-	9	-	-	..
Patent Fuel Plants	-	-	-	-	-	-	-	..
Coke Ovens	-	-	-	-	-	-	-	..
BKB plants	-	-	-	-	-	-	-	..
Gas Works	-	-	-	-	-	-	-	..
Blast Furnaces	-	-	-	-	-	-	-	..
Oil Refineries	-	-	3665	3748	16851	16126	15055	..
Nuclear Industry	-	-	-	-	-	-	-	..
Coal Liquefaction Plants	-	-	-	-	-	-	-	..
LNG/Regasification Plants	-	-	-	-	-	-	-	..
Energy - Non Specified	-	-	12	351	133	986	1356	..
Final consumption	-	12826	154839	161161	125607	112764	109095	..
Industry	-	-	121023	133085	95124	88702	87850	..
Iron and steel	-	-	-	1	18	8	6	..
Chem. and petrochemical	-	-	102040	117530	79870	77600	78780	..
Non-ferrous metals	-	-	11	-	1	21	30	..
Non-metallic minerals	-	-	161	116	3	2	-	..
Transport equipment	-	-	6	102	18	4	3	..
Machinery	-	-	469	775	329	82	94	..
Mining and quarrying	-	-	1707	-	4075	1363	-	..
Food and tobacco	-	-	8442	7030	4781	3739	4519	..
Paper, pulp and printing	-	-	7749	6971	5517	5739	4169	..
Wood and wood products	-	-	38	7	62	38	31	..
Construction	-	-	-	-	-	-	-	..
Textile and leather	-	-	27	131	154	44	169	..
Non specified/other	-	-	373	422	296	62	49	..
Transport	-	-	-	-	-	-	-	..
Commercial & publ. serv.	-	3801	11824	10000	12820	6252	6141	..
Residential	-	4440	7138	8806	12173	13624	10918	..
Agriculture	-	1886	14854	9270	5490	4186	4186	..
Fishing	-	-	-	-	-	-	-	..
Sector non specified	-	2699	-	-	-	-	-	..

1. Heat generation from main activity producer power plants and autoproducers.

2. Energy industry consumption = electricity consumed by transformation industries for heating, traction and lighting purposes;

excludes own use by power plant and electricity used for heat pumps, electric boilers and pumped storage.

Netherlands

Table 4a. Gross electricity production by source (TWh)

	1974	1990	2000	2010	2013	2014	2015e	74-00	00-15
Total plants gross production¹	54.76	71.94	89.63	119.27	101.74	103.42	110.00	1.9	1.4
Nuclear	3.28	3.50	3.93	3.97	2.89	4.09	3.86	0.7	-0.1
Hydro	-	0.09	0.14	0.11	0.11	0.11	0.09	-	-2.8
- Of which pumped storage	-	-	-	-	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-	-	-
Solar	-	-	0.01	0.06	0.49	0.79	1.10	-	38.9
Wind	-	0.06	0.83	3.99	5.63	5.80	7.49	-	15.8
Combustible fuels	51.48	68.30	84.48	110.99	92.49	92.49	97.34	1.9	0.9
- Coal	..	27.52	27.11	25.80	27.54	32.42	40.98	..	2.8
- Oil	..	3.11	2.64	1.25	1.20	1.91	1.28	..	-4.7
- Natural gas	..	36.61	51.52	75.33	56.10	51.52	48.48	..	-0.4
- Biofuels & waste	..	1.06	3.20	8.61	7.65	6.64	6.59	..	4.9
Other ²	-	-	0.25	0.15	0.12	0.15	0.12	-	-4.7
Of which autoproducers	6.18	12.26	13.93	24.08	24.61	21.96	..	3.2	..
Nuclear	-	-	-	-	-	-	..	-	..
Hydro	-	-	-	-	-	-	..	-	..
- Of which pumped storage	-	-	-	-	-	-	..	-	..
Geothermal	-	-	-	-	-	-	..	-	..
Solar	-	-	0.01	0.05	0.47	0.77	..	-	..
Wind	-	0.01	0.24	0.73	1.01	1.02	..	-	..
Combustible fuels	6.18	12.24	13.54	23.18	23.00	20.05	..	3.1	..
- Coal	..	0.37	0.11	0.10	0.12	0.07
- Oil	..	2.90	2.39	0.86	0.72	1.00
- Natural gas	..	7.97	8.40	17.43	16.92	14.02
- Biofuels & waste	..	1.01	2.64	4.79	5.24	4.96
Other ²	-	-	0.15	0.13	0.12	0.13	..	-	..

Table 4b. Gross heat production by source (PJ)

	1974	1990	2000	2010	2013	2014	2015e	74-00	00-15
Total plants heat generation³	-	15.06	172.37	159.88	150.09	147.16	140.94	-	-1.3
Nuclear	-	-	-	-	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-	-	-
Combustible fuels	-	15.06	172.37	159.88	150.09	147.16	140.94	-	-1.3
- Coal	..	5.61	13.71	20.07	5.56	3.36	3.92	..	-8.0
- Oil	..	0.05	37.47	15.77	16.58	21.38	17.22	..	-5.1
- Natural gas	..	6.03	114.85	112.28	110.16	103.27	97.20	..	-1.1
- Biofuels & waste	..	3.38	6.34	11.75	17.79	19.15	22.60	..	8.8
Chemical processes	-	-	-	-	-	-	-	-	-
Heat pumps	-	-	-	-	-	-	-	-	-
Electric boilers	-	-	-	-	-	-	-	-	-
Other sources	-	-	-	-	-	-	-	-	-
Of which Autoproducers	-	3.12	45.68	42.95	53.16	54.05	..	-	..
Nuclear	-	-	-	-	-	-	..	-	..
Geothermal	-	-	-	-	-	-	..	-	..
Combustible fuels	-	3.12	45.68	42.95	53.16	54.05	..	-	..
- Coal	..	-	-	-	-	-
- Oil	..	c	10.07	11.45	11.30	13.66
- Natural gas	..	-	29.50	22.07	25.04	22.20
- Biofuels & waste	..	3.12	6.11	9.43	16.82	18.19
Chemical processes	-	-	-	-	-	-	..	-	..
Heat pumps	-	-	-	-	-	-	..	-	..
Electric boilers	-	-	-	-	-	-	..	-	..
Other sources	-	-	-	-	-	-	..	-	..

1. Electricity generated from main activity producer power plants and autoproducers.

2. Includes wave, ocean and other sources (e.g. fuel cells, electricity from chemical heat).

3. Total heat generation = gross production of heat from main activity producer + heat sold in autoproducers.

Netherlands**Table 5. Net electricity production by autoproducers (GWh)**

	1974	1990	2000	2010	2012	2013	2014	74-00	00-14
Total	6765	11738	13070	22564	23264	22755	20747	2.6	3.4
Total energy	-	-	2839	1851	2032	1987	1975	-	-2.6
Coal mines	-	-	-	-	-	-	-	-	-
Oil and gas extraction	-	-	84	31	31	31	31	-	-6.9
Patent fuel plants	-	-	-	-	-	-	-	-	-
Coke ovens	-	-	-	-	-	-	-	-	-
Gas works	-	-	-	-	-	-	-	-	-
BKB	-	-	2755	1820	2001	1956	1944	-	-2.5
Oil refineries	-	-	-	-	-	-	-	-	-
Energy non specified/other	-	-	-	-	-	-	-	-	-
Total industry	6249	10094	5972	4360	4924	4680	4147	-0.2	-2.6
Iron and steel	175	206	266	250	265	267	222	1.6	-1.3
Chemical and petrochemical	3000	7213	3027	1818	2369	2358	2086	0.0	-2.6
Non-ferrous metals	9	17	28	-	-	-	-	4.5	-
Non-metallic minerals	1	95	69	27	24	27	23	17.7	-7.5
Transport equipment	64	-	-	-	-	-	-	-	-
Machinery	-	20	1	-	-	-	-	-	-
Mining and quarrying	1689	62	-	-	88	85	-	-	-
Food and tobacco	321	1157	1458	1363	1280	1217	1155	6.0	-1.7
Pulp and printing	872	1281	1106	873	869	702	646	0.9	-3.8
Wood and wood products	1	10	9	9	3	3	3	8.8	-7.5
Construction	-	-	-	-	5	14	10	-	-
Textile and leather	40	33	8	20	19	7	2	-6.0	-9.4
Non specified/other industries	77	-	-	-	2	-	-	-	-
Total transport	-	-	-	-	-	-	-	-	-
Rail	-	-	-	-	-	-	-	-	-
Pipeline	-	-	-	-	-	-	-	-	-
Transport non specified	-	-	-	-	-	-	-	-	-
Other	516	1644	4259	16353	16308	16088	14625	8.5	9.2
Commerce and pub. services	-	1	3269	4341	4691	4502	4419	-	2.2
Residential	-	-	8	47	177	360	549	-	35.3
Agriculture	-	-	982	11965	11440	11226	9657	-	17.7
Fishing	-	-	-	-	-	-	-	-	-
Sector non specified	516	1643	-	-	-	-	-	-	-

Notes: Data reported in this table prior to 1990 may refer to combustible fuels only.

Netherlands**Table 6a. Electricity production from combustible fuels in electricity plants¹**

	1990	2000	2005	2010	2012	2013	2014	90-00	00-14
Steam coal									
Fuel input (1000 t)	-	4928	4911	4625	6172	6440	7566	-	3.1
Fuel input (TJ)	-	120058	123318	114804	152304	160890	189343	-	3.3
Electricity production (GWh)	-	13927	13960	13266	17500	17969	21994	-	3.3
Lignite									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
Coal manufactured gases²									
Fuel input (TJ)	3417	16481	17343	16090	18961	16360	17393	17.0	0.4
Electricity production (GWh)	369	1932	2177	1977	2125	1842	1889	18.0	-0.2
Other coal products³									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
Oil and petroleum products									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
Natural gas²									
Fuel input (TJ)	-	141784	149737	203879	115769	145809	149470	-	0.4
Electricity production (GWh)	-	19678	15643	26865	15682	20037	20540	-	0.3
Solid biofuels									
Fuel input (TJ)	-	3579	8420	24592	23582	16364	15174	-	10.9
Electricity production (GWh)	-	291	842	2447	2383	1669	1437	-	12.1
Industrial waste									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
Municipal waste									
Fuel input (TJ)	-	27175	31125	11545	-	-	-	-	-
Electricity production (GWh)	-	1627	1841	725	-	-	-	-	-
Biogases and liquid biofuels									
Fuel input (TJ)	-	1279	14854	1513	917	789	637	-	-4.9
Electricity production (GWh)	-	114	1544	136	68	55	46	-	-6.3
Total combustible fuels									
Electricity production (GWh)	369	37569	36007	45416	37758	41572	45906	58.8	1.4

1. Excludes CHP plants.

2. Coal manufactured gases and natural gas are expressed on a gross calorific value basis.

3. Includes Coking coal as well as peat and peat products, patent fuels, BKB and shale oil

Netherlands

**Table 6b. Electricity and heat produced for sale from combustible fuels
in combined heat and power plants (CHP plants)**

	1990	2000	2005	2010	2012	2013	2014	90-00	00-14
Steam coal									
Fuel input (1000 t)	8721	3662	3356	3250	2396	2394	2698	-8.3	-2.2
Fuel input (TJ)	220393	89212	84272	80678	59118	59820	65763	-8.6	-2.2
Electricity production (GWh)	25014	10349	9540	9322	6712	6645	7491	-8.4	-2.3
CHP Heat production (TJ)	5606	12973	16916	17168	5471	2686	3121	8.8	-9.7
Lignite									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
CHP Heat production (TJ)	-	-	-	-	-	-	-	-	-
Coal manufactured gases¹									
Fuel input (TJ)	19772	7366	9785	9891	8339	9479	9249	-9.4	1.6
Electricity production (GWh)	2137	906	1251	1235	976	1083	1046	-8.2	1.0
CHP Heat production (TJ)	-	738	1483	2903	288	2872	241	-	-7.7
Other coal products²									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
CHP Heat production (TJ)	-	-	-	-	-	-	-	-	-
Petroleum products									
Fuel input (1000 t)	694	642	526	362	397	394	556	-0.8	-1.0
Fuel input (TJ)	30420	28426	23250	16244	17861	17698	24743	-0.7	-1.0
Electricity production (GWh)	3112	2641	2262	1253	1059	1203	1906	-1.6	-2.3
CHP Heat production (TJ)	48	8804	8947	6183	6953	7017	8950	68.4	0.1
Natural gas¹									
Fuel input (TJ)	330704	340767	383910	427250	345239	304466	274026	0.3	-1.5
Electricity production (GWh)	36605	31844	41956	48468	40912	36062	30982	-1.4	-0.2
CHP Heat production (TJ)	6027	101410	98293	103565	103818	101141	95256	32.6	-0.4
Solid Biofuels									
Fuel input (TJ)	440	1509	11895	16196	14683	12183	6481	13.1	11.0
Electricity production (GWh)	34	144	1404	1750	1577	1230	663	15.5	11.5
CHP Heat production (TJ)	233	203	1161	2051	1437	1273	691	-1.4	9.1
Industrial waste									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
CHP Heat production (TJ)	-	-	-	-	-	-	-	-	-
Municipal waste									
Fuel input (TJ)	22153	13397	14744	37453	67182	70182	70843	-4.9	12.6
Electricity production (GWh)	933	854	853	2602	3991	3774	3535	-0.9	10.7
CHP Heat production (TJ)	3124	1363	2481	2425	13643	16298	18050	-8.0	20.3
Biogases and liquid biofuels									
Fuel input (TJ)	616	1059	1247	6819	6191	5851	5532	5.6	12.5
Electricity production (GWh)	92	172	199	946	940	925	959	6.5	13.1
CHP Heat production (TJ)	20	44	68	282	185	157	46	8.2	0.3
Total combustible fuels									
Electricity production (GWh)	67927	46910	57465	65576	56167	50922	46582	-3.6	-0.1
CHP Heat production (TJ)	15058	125535	129349	134577	131795	131444	126355	23.6	0.0

1. Coal manufactured gases and natural gas are expressed on a gross calorific value basis.

2. Includes Coking coal as well as peat and peat products, patent fuels, BKB and shale oil

Netherlands**Table 6c. Heat produced for sale from combustible fuels in heat plants¹**

	1990	2000	2005	2010	2012	2013	2014	90-00	00-14
Steam coal									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Heat production (TJ)	-	-	-	-	-	-	-	-	-
Lignite									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Heat production (TJ)	-	-	-	-	-	-	-	-	-
Coal manufactured gases²									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Heat production (TJ)	-	-	-	-	-	-	-	-	-
Other coal products³									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Heat production (TJ)	-	-	-	-	-	-	-	-	-
Petroleum products									
Fuel input (1000 t)	c	751	808	242	235	246	409	c	-4.2
Fuel input (TJ)	c	33945	36526	10933	10622	11124	18476	c	-4.3
Heat production (TJ)	c	28662	32156	9591	8876	9560	12425	c	-5.8
Natural gas²									
Fuel input (TJ)	-	21268	17117	10467	10096	10774	10204	-	-5.1
Heat production (TJ)	-	13436	11981	8716	8427	9022	8018	-	-3.6
Solid biofuels									
Fuel input (TJ)	-	-	-	-	23	76	422	-	-
Heat production (TJ)	-	-	-	-	19	64	359	-	-
Industrial waste									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Heat production (TJ)	-	-	-	-	-	-	-	-	-
Municipal waste									
Fuel input (TJ)	-	6420	7191	10421	-	-	-	-	-
Heat production (TJ)	-	4734	5010	6994	-	-	-	-	-
Biogases and liquid biofuels									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Heat production (TJ)	-	-	-	-	-	-	-	-	-
Total combustible fuels									
Heat production (TJ)	c	46832	49147	25301	17322	18646	20802	c	-5.6

1. Excludes CHP plants

2. Coal manufactured gases and natural gas are expressed on a gross calorific value basis.

3. Includes Coking coal as well as peat and peat products, patent fuels, BKB and shale oil

Netherlands**Table 7. Net maximum electricity generating capacity on 31 December (GW)**

	1974	1990	2000	2005	2010	2012	2013	2014
Total capacity¹	13.56	17.56	21.06	21.80	26.69	29.92	30.54	31.76
Nuclear	0.50	0.51	0.45	0.45	0.51	0.51	0.49	0.49
Hydro	-	0.04	0.04	0.04	0.04	0.04	0.04	0.04
<i>of which: pumped storage</i>	-	-	-	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-	-
Solar PV	-	-	0.01	0.05	0.09	0.37	0.75	1.05
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	0.05	0.45	1.22	2.24	2.43	2.71	2.87
Other (e.g. fuel cells)	-	-	0.05	0.07	0.07	0.06	0.04	0.04
Combustible fuels	13.06	16.96	20.07	19.97	23.74	26.52	26.52	27.29
<i>of which⁽²⁾:</i>								
<i>Single-fired:</i>								
Coal and Coal products	0.79	-	-	-	-	-	-	-
Liquid fuels	1.11	0.04	0.02 e	0.02
Natural gas	1.45	3.19	11.96 e	9.43
Biofuels & waste	-	-	-	-	-	-	-	-
<i>Multi-fired:</i>								
Solid / liquid	0.52	1.71	0.60 e	0.60
Solid / natural gas	0.56	2.06	3.57 e	3.57
Liquid / natural gas	8.29	9.97	3.91 e	3.69
Solid / liquid / gas	0.34	-	-	-	-	-	-	-
<u>Type of generation</u>								
Steam	-	13.85	10.95	9.76	8.86	8.36	8.03	8.50
Internal combustion	-	0.27	1.53	1.68	3.65	3.61	3.54	3.54
Gas turbine	-	1.11	1.33	1.19	1.32	1.42	1.28	1.16
Combined cycle	-	1.71	6.27	7.34	9.92	13.13	13.67	14.09
Other	-	0.03	-	-	-	-	-	-
<u>Peak load</u>	..	10.76	..	15.22	17.48	16.83	16.66	16.50
Of which Autoproducers	1.56	2.25	2.92	3.24	5.35	6.21	6.40	6.79
Nuclear	-	-	-	-	-	-	-	-
Hydro	-	-	-	-	-	-	-	-
<i>of which: pumped storage</i>	-	-	-	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-	-
Solar PV	-	-	0.01	0.05	0.09	0.35	0.73	1.02
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	0.01	0.13	0.41	0.46	0.50	0.51	0.54
Other (e.g. fuel cells)	-	-	0.03	0.05	0.05	0.04	0.03	0.03
Combustible fuels	1.56	2.24	2.75	2.73	4.75	5.32	5.13	5.19

1. Sum of available capacity figures

2. Breakdown of electrical capacity by type of fuel are shown in the individual country chapters.

Netherlands**Table 8. Capacity factors (%)**

	1974	1990	2000	2005	2010	2012	2013	2014
Total plants¹	46.1	46.8	48.6	52.3	51.0	39.4	38.0	37.2
Nuclear	74.5	78.7	99.8	101.6	88.8	87.6	68.1	96.3
Hydro	-	26.2	43.8	27.2	32.4	32.1	35.2	34.6
<i>of which: pumped storage</i>	-	-	-	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-	-
Solar PV	-	-	7.0	7.8	7.1	7.0	7.5	8.6
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	12.8	21.2	19.3	20.4	23.4	23.7	23.1
Other (e.g. fuel cells)	-	-	61.3	41.5	24.8	29.4	37.0	40.4
Combustible fuels	45.0	46.0	48.1	53.4	53.4	40.4	39.8	38.7
Of which autoproducers	45.2	62.1	54.4	54.3	51.4	46.2	43.9	36.9
Nuclear	-	-	-	-	-	-	-	-
Hydro	-	-	-	-	-	-	-	-
<i>of which: pumped storage</i>	-	-	-	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-	-
Solar PV	-	-	7.0	7.9	7.1	6.9	7.4	8.6
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	12.5	21.1	20.0	18.0	20.9	22.5	21.4
Other (e.g. fuel cells)	-	-	55.6	46.8	28.4	40.4	50.2	43.2
Combustible fuels	45.2	62.4	56.1	60.4	55.7	51.3	51.2	44.1

1. The capacity factor is defined as: the annual gross electricity generation (in GWh) divided by the net capacity (in GW) times 365 (days/year) times 24 (hours/day)

Netherlands**Table 9a. Electricity imports by origin (GWh)**

	1974	1990	2000	2005	2010	2012	2013	2014
Total imports	10	9679	22946	23691	15583	32156	33252	32855
Total from OECD	-	9679	22946	23691	15583	32156	33252	32855
Austria	-	-	-	-	-	-	-	-
Belgium	-	123	2283	4430	5319	3697	4387	3041
Canada	-	-	-	-	-	-	-	-
Czech Republic	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-
France	-	4516	5258	-	-	-	-	-
Germany	-	5040	14326	19261	8937	22551	24551	24340
Greece	-	-	-	-	-	-	-	-
Hungary	-	-	-	-	-	-	-	-
Ireland	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-
Luxembourg	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-
Norway	-	-	-	-	1327	5645	4172	5463
Poland	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-
Slovak Republic	-	-	-	-	-	-	-	-
Slovenia	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-
Sweden	-	-	13	-	-	-	-	-
Switzerland	-	-	1	-	-	-	-	-
Turkey	-	-	-	-	-	-	-	-
United Kingdom	-	-	1065	-	-	263	142	11
United States	-	-	-	-	-	-	-	-
Total from non-OECD	-	-	-	-	-	-	-	-
Albania	-	-	-	-	-	-	-	-
Azerbaijan	-	-	-	-	-	-	-	-
Belarus	-	-	-	-	-	-	-	-
Bulgaria	-	-	-	-	-	-	-	-
Croatia	-	-	-	-	-	-	-	-
F.Y.R. of Macedonia	-	-	-	-	-	-	-	-
Georgia	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-
Romania	-	-	-	-	-	-	-	-
Russian Federation	-	-	-	-	-	-	-	-
Serbia	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-
Turkmenistan	-	-	-	-	-	-	-	-
Ukraine	-	-	-	-	-	-	-	-
Non-specified/others	10	-	-	-	-	-	-	-

Netherlands**Table 9b. Electricity exports by destination (GWh)**

	1974	1990	2000	2005	2010	2012	2013	2014
Total exports	1489	471	4031	5398	12808	15046	15015	18128
Total to OECD	-	471	4031	5398	12808	15046	15015	18128
Austria	-	-	-	-	-	-	-	-
Belgium	-	10	3045	5074	7390	8018	7770	9583
Canada	-	-	-	-	-	-	-	-
Czech Republic	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-
France	-	157	-	-	-	-	-	-
Germany	-	271	975	324	3071	744	340	348
Greece	-	-	-	-	-	-	-	-
Hungary	-	-	-	-	-	-	-	-
Ireland	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-
Luxembourg	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-
Norway	-	-	-	-	2347	93	249	107
Poland	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-
Slovak Republic	-	-	-	-	-	-	-	-
Slovenia	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-
Sweden	-	-	9	-	-	-	-	-
Switzerland	-	33	2	-	-	-	-	-
Turkey	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	6191	6656	8090
United States	-	-	-	-	-	-	-	-
Total to non-OECD	-	-	-	-	-	-	-	-
Albania	-	-	-	-	-	-	-	-
Azerbaijan	-	-	-	-	-	-	-	-
Belarus	-	-	-	-	-	-	-	-
Bulgaria	-	-	-	-	-	-	-	-
Croatia	-	-	-	-	-	-	-	-
F.Y.R. of Macedonia	-	-	-	-	-	-	-	-
Georgia	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-
Romania	-	-	-	-	-	-	-	-
Russian Federation	-	-	-	-	-	-	-	-
Serbia	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-
Turkmenistan	-	-	-	-	-	-	-	-
Ukraine	-	-	-	-	-	-	-	-
Non-specified/others	1489	-	-	-	-	-	-	-

Netherlands

Table 10a. Share of electricity in total final consumption (%)

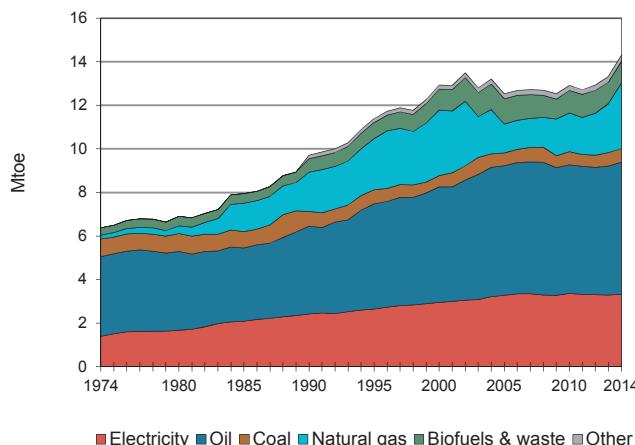
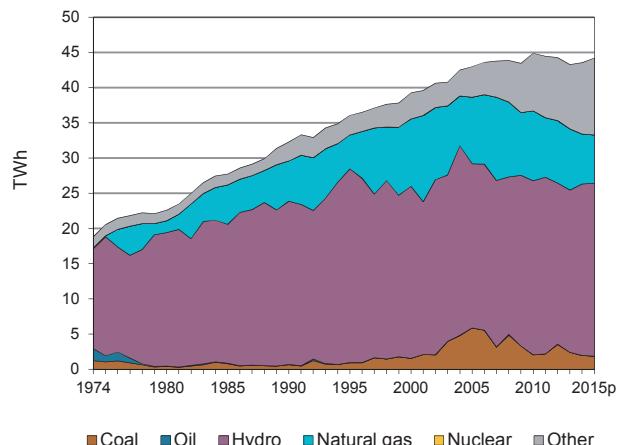
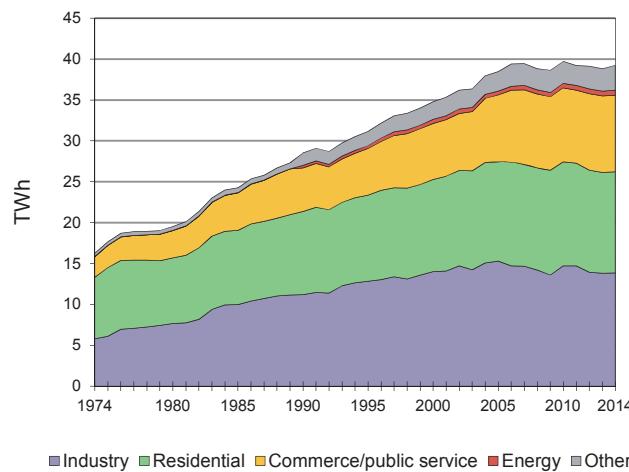
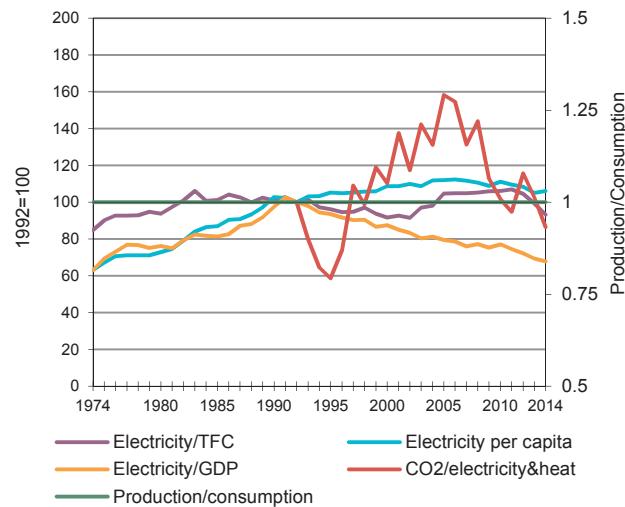
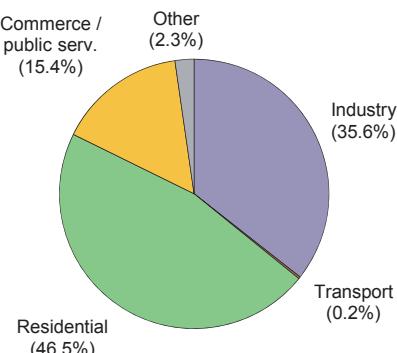
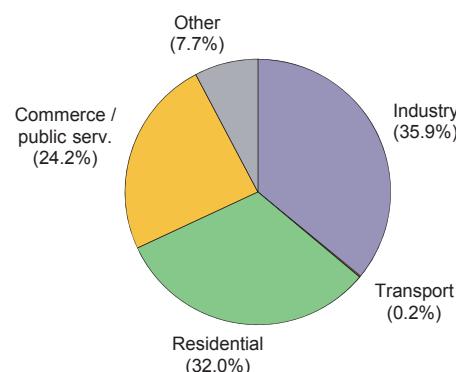
	1974	1990	2000	2005	2010	2012	2013	2014
Share of total final consumption	8.8	12.9	13.7	13.9	14.0	14.6	14.6	15.4
Industry	15.5	25.3	22.6	22.7	23.5	22.1	22.4	21.7
Iron and steel	10.5	17.1	19.9	20.3	23.1	20.8	21.6	21.7
Chem. and petrochemical	12.9	20.3	14.2	13.7	15.5	15.0	15.3	15.1
Non-ferrous metals	77.1	84.1	83.3	84.9	82.7	76.5	78.5	72.8
Non-metallic minerals	8.1	14.1	16.9	16.9	17.4	18.0	19.2	18.2
Transport equipment	-	29.1	41.6	41.8	46.2	48.5	47.0	46.4
Machinery	80.0	36.3	42.8	45.9	44.8	45.6	45.0	49.6
Mining and quarrying	6.4	31.7	13.6	11.4	15.9	13.8	14.9	18.7
Food and tobacco	12.3	24.8	23.2	25.8	28.9	28.5	28.4	27.4
Paper, pulp and printing	18.6	37.5	32.4	32.6	31.9	31.8	32.2	33.0
Wood and wood products	42.3	30.6	29.1	34.6	32.7	32.5	27.3	25.3
Construction	100.0	12.3	14.1	14.0	14.8	13.5	13.1	12.3
Textile and leather	22.6	30.9	23.6	28.3	28.4	29.0	31.1	33.2
Non specified/other	1.4	13.1	49.6	47.2	46.0	45.6	46.1	43.8
Transport	1.3	1.2	1.3	1.2	1.3	1.3	1.4	1.4
Rail Transport	61.8	74.4	79.3	80.5	81.7	84.6	84.4	83.3
Pipeline Transport	-	-	-	-	-	-	-	-
Road	-	-	-	-	0.0	0.0	0.0	0.1
Transport Non Specified	-	-	-	-	-	-	-	-
Other sectors	10.2	17.5	21.0	24.0	23.4	26.3	25.8	30.0
Commercial & publ. serv.	50.4	29.9	39.7	41.8	40.5	43.3	43.3	48.3
Residential	8.4	14.2	15.9	17.5	15.9	18.6	17.7	21.6
Agriculture	-	6.1	8.9	12.8	14.8	17.4	18.4	20.7
Fishing	-	-	-	-	-	-	-	-
Sector non specified	-	-	-	-	7.2	9.3	8.5	8.2

Table 10b. Share of heat in total final consumption (%)

	1974	1990	2000	2005	2010	2012	2013	2014
Share of total final consumption	-	0.6	6.1	6.0	4.5	4.4	4.4	4.6
Industry	-	-	18.6	20.0	15.8	15.5	15.7	15.9
Iron and steel	-	-	-	-	0.0	0.0	0.0	0.0
Chem. and petrochemical	-	-	33.3	34.8	25.6	25.9	26.2	27.1
Non-ferrous metals	-	-	0.0	-	-	2.7	0.2	0.4
Non-metallic minerals	-	-	0.5	0.4	0.0	0.1	0.0	-
Transport equipment	-	-	0.1	2.0	0.3	0.1	0.1	0.1
Machinery	-	-	1.6	2.8	1.2	0.3	0.4	0.5
Mining and quarrying	-	-	27.6	-	40.9	21.3	22.4	-
Food and tobacco	-	-	8.5	7.7	6.0	3.7	4.8	5.4
Paper, pulp and printing	-	-	18.3	17.4	18.2	20.2	20.0	16.6
Wood and wood products	-	-	1.1	0.3	2.3	0.8	1.7	1.1
Construction	-	-	-	-	-	-	-	-
Textile and leather	-	-	0.3	2.5	3.2	1.2	1.0	4.6
Non specified/other	-	-	2.5	2.4	2.0	1.9	0.4	0.3
Transport	-	-	-	-	-	-	-	-
Other sectors	-	1.6	3.7	3.1	3.0	2.6	2.6	2.7
Commercial & publ. serv.	-	1.6	4.5	3.4	3.9	2.3	2.1	2.3
Residential	-	1.1	1.6	2.0	2.3	2.7	2.9	2.9
Agriculture	-	1.4	8.7	5.7	3.3	2.9	2.7	3.0
Fishing	-	-	-	-	-	-	-	-
Sector non specified	-	95.7	-	-	-	-	-	-

Source: IEA/OECD World Energy Balances.

New Zealand

Figure 1. Total final consumption by fuel**Figure 2. Electricity generation by fuel****Figure 3. Electricity consumption by sector****Figure 4. Electricity indicators****Figure 5. Total final electricity consumption by sector****1974****2014**

New Zealand

Table 1. Energy consumption, GDP and population

	1974	1990	2000	2010	2013	2014	2015p	74-00	00-15
TPES (Mtoe)	8.72	12.83	17.09	18.38	19.37	20.56	20.43	2.6	1.2
GDP (billion 2005 USD)	70.79	82.82	111.80	146.58	157.09	162.07	167.57	1.8	2.7
TPES/GDP ¹	0.12	0.15	0.15	0.13	0.12	0.13	0.12	0.8	-1.5
Population (millions)	3.03	3.37	3.87	4.36	4.46	4.46	4.50	0.9	1.0
TPES/population ²	2.87	3.81	4.42	4.21	4.34	4.61	4.54	1.7	0.2
TPES/GDP (2005 = 100)	99	124	123	101	99	102	98	0.8	-1.5
Ele.TFC/GDP(2005=100) ³	82	122	110	96	87	85	..	1.1	..
Ele.TFC/population ⁴	5363	8368	8868	8977	8573	8670	..	2.0	..
Elec. generated (TWh) ⁵	18.83	32.27	39.25	44.88	43.27	43.55	44.20	2.9	0.8

Source: IEA/OECD *World Energy Balances* and OECD *Main Economic Indicators*.

Table 2. Total primary energy supply (TPES) by source

	1974	1990	2000	2010	2013	2014	2015p	74-00	00-15
TPES (Mtoe)	8.72	12.83	17.09	18.38	19.37	20.56	20.43	2.6	1.2
Coal	1.12	1.18	1.11	1.31	1.43	1.40	1.37	-0.0	1.4
Oil	4.55	3.51	5.71	6.19	6.39	6.52	6.65	0.9	1.0
Natural gas	0.31	3.87	5.06	3.73	3.98	4.39	4.11	11.3	-1.4
Biofuels & waste	0.40	0.75	1.11	1.19	1.14	1.15	1.16	4.0	0.3
Nuclear	-	-	-	-	-	-	-	-	-
Geothermal	1.11	1.48	1.95	3.64	4.24	4.78	4.78	2.2	6.2
Solar, wind, tide ⁶	-	0.04	0.05	0.19	0.21	0.22	0.25	-	10.7
Hydro	1.22	1.99	2.10	2.13	1.98	2.09	2.11	2.1	0.0
Net electricity imports ⁷	-	-	-	-	-	-	-	-	-
Heat	-	-	-	-	-	-	-	-	-

Source: IEA/OECD *World Energy Balances*.

1. In units of toe/2005 thousand US dollars.

2. In units of toe/per capita.

3. Ele.TFC = electricity total final consumption.

4. In units of kWh/per capita.

5. Electricity generated = gross production - amount of electricity produced in pumped storage plants.

6. Includes wave, ocean and other (e.g. fuel cells).

7. Net Imports = total imports - total exports

New Zealand

Table 3a. Summary electricity production and consumption¹ (TWh)

	1974	1990	2000	2005	2010	2013	2014	2015e
Gross production	18.83	32.27	39.25	42.97	44.88	43.27	43.55	44.20
- Own use by power plant	0.25	0.81	1.18	1.45	1.42	1.38	1.31	-
Net production	18.57	31.46	38.07	41.52	43.46	41.88	42.24	-
- Used for heat pumps	-	-	-	-	-	-	-	-
- Used for electric boilers	-	-	-	-	-	-	-	-
- Used for pumped storage	-	-	-	-	-	-	-	-
+ Imports	-	-	-	-	-	-	-	-
- Exports	-	-	-	-	-	-	-	-
Electrical energy supplied	18.57	31.46	38.07	41.52	43.46	41.88	42.24	..
- Transmission & distr. losses	2.31	2.39	3.05	2.98	3.10	2.89	2.85	..
- Statistical difference	-0.01	0.56	0.25	0.06	0.65	0.16	0.16	..
Total consumption	16.27	28.52	34.78	38.48	39.70	38.84	39.23	..
Energy industry consumption²	0.02	0.30	0.52	0.45	0.55	0.61	0.60	..
Coal Mines	0.02	0.03	0.05	0.05	0.08	0.06	0.05	..
Oil + Gas Extraction	-	0.02	0.05	0.01	0.02	0.08	0.08	..
Patent Fuel Plants	-	-	-	-	-	-	-	..
Coke Ovens	-	-	-	-	-	-	-	..
BKB plants	-	-	-	-	-	-	-	..
Gas Works	-	-	-	-	-	-	-	..
Blast Furnaces	-	-	-	-	-	-	-	..
Oil Refineries	-	0.21	0.25	0.27	0.32	0.32	0.32	..
Nuclear Industry	-	-	-	-	-	-	-	..
Coal Liquefaction Plants	-	-	-	-	-	-	-	..
LNG/Regasification Plants	-	-	-	-	-	-	-	..
Energy - Non Specified	-	0.05	0.16	0.13	0.13	0.17	0.15	..
Final consumption	16.25	28.22	34.26	38.02	39.16	38.22	38.64	..
Industry	5.79	11.20	14.03	15.31	14.73	13.82	13.88	..
Iron and steel	2.12	1.09	1.30	1.44	1.48	0.85	0.55	..
Chem. and petrochemical	0.21	0.30	0.41	0.48	0.38	0.43	0.42	..
Non-ferrous metals	-	4.38	5.05	5.27	5.27	5.76	6.04	..
Non-metallic minerals	0.23	0.21	0.26	0.25	0.25	0.55	0.40	..
Transport equipment	-	0.08	0.07	0.06	0.03	0.03	0.02	..
Machinery	0.30	0.23	0.20	0.26	0.15	0.12	0.14	..
Mining and quarrying	0.08	0.15	0.24	0.27	0.32	0.33	0.32	..
Food and tobacco	0.87	1.52	1.88	2.29	2.26	2.20	2.32	..
Paper, pulp and printing	-	2.59	3.00	3.08	1.93	1.37	1.28	..
Wood and wood products	1.55	0.17	0.86	1.05	1.79	1.32	1.35	..
Construction	0.07	0.02	0.20	0.24	0.17	0.26	0.35	..
Textile and leather	0.21	0.24	0.19	0.18	0.12	0.10	0.10	..
Non specified/other	0.14	0.23	0.39	0.45	0.57	0.52	0.58	..
Transport	0.04	0.06	0.07	0.06	0.06	0.06	0.06	..
Rail Transport	0.04	-	-	-	-	-	-	..
Pipeline Transport	-	-	-	-	-	-	-	..
Road	-	-	-	-	-	-	-	..
Transport Non Specified	-	0.06	0.07	0.06	0.06	0.06	0.06	..
Commercial & publ. serv.	7.55	10.19	11.26	12.14	12.72	12.33	12.36	..
Residential	2.51	5.32	6.85	8.18	9.05	9.33	9.35	..
Agriculture	0.37	0.66	1.24	1.40	1.99	2.31	2.67	..
Fishing	-	0.03	0.06	0.08	0.14	0.07	0.05	..
Sector non specified	-	0.77	0.77	0.85	0.47	0.31	0.27	..

1. Electricity generation from main activity producer power plants and autoproducers .

2. Energy industry consumption = electricity consumed by transformation industries for heating, traction and lighting purposes;

excludes own use by power plant and electricity used for heat pumps, electric boilers and pumped storage.

New Zealand

Table 3b. Summary heat production and consumption¹ (TJ)

	1974	1990	2000	2005	2010	2013	2014	2015e
Gross production	-	1610	1610	1947	1468	850	850	1316
- Own use by power plant	-	-	-	-	-	-	-	-
Net production	-	1610	1610	1947	1468	850	850	-
- Used for electricity production	-	1610	1610	1947	1468	850	850	1316
+ Imports	-	-	-	-	-	-	-	-
- Exports	-	-	-	-	-	-	-	-
Heat energy supplied	-	-	-	-	-	-	-	..
- Transmission & distr. losses	-	-	-	-	-	-	-	..
- Statistical difference	-	-	-	-	-	-	-	..
Total consumption	-	-	-	-	-	-	-	..
Energy industry consumption²	-	-	-	-	-	-	-	..
Coal Mines	-	-	-	-	-	-	-	..
Oil + Gas Extraction	-	-	-	-	-	-	-	..
Patent Fuel Plants	-	-	-	-	-	-	-	..
Coke Ovens	-	-	-	-	-	-	-	..
BKB plants	-	-	-	-	-	-	-	..
Gas Works	-	-	-	-	-	-	-	..
Blast Furnaces	-	-	-	-	-	-	-	..
Oil Refineries	-	-	-	-	-	-	-	..
Nuclear Industry	-	-	-	-	-	-	-	..
Coal Liquefaction Plants	-	-	-	-	-	-	-	..
LNG/Regasification Plants	-	-	-	-	-	-	-	..
Energy - Non Specified	-	-	-	-	-	-	-	..
Final consumption	-	-	-	-	-	-	-	..
Industry	-	-	-	-	-	-	-	..
Iron and steel	-	-	-	-	-	-	-	..
Chem. and petrochemical	-	-	-	-	-	-	-	..
Non-ferrous metals	-	-	-	-	-	-	-	..
Non-metallic minerals	-	-	-	-	-	-	-	..
Transport equipment	-	-	-	-	-	-	-	..
Machinery	-	-	-	-	-	-	-	..
Mining and quarrying	-	-	-	-	-	-	-	..
Food and tobacco	-	-	-	-	-	-	-	..
Paper, pulp and printing	-	-	-	-	-	-	-	..
Wood and wood products	-	-	-	-	-	-	-	..
Construction	-	-	-	-	-	-	-	..
Textile and leather	-	-	-	-	-	-	-	..
Non specified/other	-	-	-	-	-	-	-	..
Transport	-	-	-	-	-	-	-	..
Commercial & publ. serv.	-	-	-	-	-	-	-	..
Residential	-	-	-	-	-	-	-	..
Agriculture	-	-	-	-	-	-	-	..
Fishing	-	-	-	-	-	-	-	..
Sector non specified	-	-	-	-	-	-	-	..

1. Heat generation from main activity producer power plants and autoproducers.

2. Energy industry consumption = electricity consumed by transformation industries for heating, traction and lighting purposes;

excludes own use by power plant and electricity used for heat pumps, electric boilers and pumped storage.

New Zealand

Table 4a. Gross electricity production by source (TWh)

	1974	1990	2000	2010	2013	2014	2015e	74-00	00-15
Total plants gross production¹	18.83	32.27	39.25	44.88	43.27	43.55	44.20	2.9	0.8
Nuclear	-	-	-	-	-	-	-	-	-
Hydro	14.20	23.18	24.43	24.72	23.04	24.34	24.53	2.1	0.0
- Of which pumped storage	-	-	-	-	-	-	-	-	-
Geothermal	1.29	2.13	2.92	5.88	6.42	7.26	7.86	3.2	6.8
Solar	-	-	-	-	0.01	0.02	0.03	-	-
Wind	-	-	0.12	1.63	2.02	2.21	2.36	-	22.0
Combustible fuels	3.34	6.88	11.71	12.58	11.74	9.69	9.37	4.9	-1.5
- Coal	..	0.66	1.55	2.06	2.40	1.96	1.88	..	1.3
- Oil	..	0.01	-	0.00	0.00	0.01	0.00	..	-
- Natural gas	..	5.71	9.57	9.92	8.70	7.09	6.86	..	-2.2
- Biofuels & waste	..	0.50	0.59	0.60	0.64	0.63	0.63	..	0.4
Other ²	-	0.07	0.07	0.06	0.04	0.04	0.06	-	-1.3
Of which autoproducers	0.28	0.85	1.58	1.39	1.41	1.40	..	6.9	..
Nuclear	-	-	-	-	-	-	..	-	..
Hydro	-	-	-	0.01	0.01	0.01	..	-	..
- Of which pumped storage	-	-	-	-	-	-	..	-	..
Geothermal	-	0.06	0.04	0.05	0.06	0.06	..	-	..
Solar	-	-	-	-	0.01	0.02	..	-	..
Wind	-	-	-	-	-	-	..	-	..
Combustible fuels	0.28	0.73	1.47	1.26	1.30	1.28	..	6.6	..
- Coal	..	0.20	0.60	0.67	0.66	0.65
- Oil	..	-	-	-	-	-
- Natural gas	..	0.06	0.36	0.13	0.15	0.15
- Biofuels & waste	..	0.47	0.51	0.46	0.49	0.48
Other ²	-	0.07	0.07	0.06	0.04	0.04	..	-	..

Table 4b. Gross heat production by source (PJ)

	1974	1990	2000	2010	2013	2014	2015e	74-00	00-15
Total plants heat generation³	-	1.61	1.61	1.47	0.85	0.85	1.32	-	-1.3
Nuclear	-	-	-	-	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-	-	-
Combustible fuels	-	-	-	-	-	-	-	-	-
- Coal	..	-	-	-	-	-	-	..	-
- Oil	..	-	-	-	-	-	-	..	-
- Natural gas	..	-	-	-	-	-	-	..	-
- Biofuels & waste	..	-	-	-	-	-	-	..	-
Chemical processes	-	-	-	-	-	-	-	-	-
Heat pumps	-	-	-	-	-	-	-	-	-
Electric boilers	-	-	-	-	-	-	-	-	-
Other sources	-	1.61	1.61	1.47	0.85	0.85	1.32	-	-1.3
Of which Autoproducers	-	1.61	1.61	1.47	0.85	0.85	..	-	..
Nuclear	-	-	-	-	-	-	..	-	..
Geothermal	-	-	-	-	-	-	..	-	..
Combustible fuels	-	-	-	-	-	-	..	-	..
- Coal	..	-	-	-	-	-
- Oil	..	-	-	-	-	-
- Natural gas	..	-	-	-	-	-
- Biofuels & waste	..	-	-	-	-	-
Chemical processes	-	-	-	-	-	-	..	-	..
Heat pumps	-	-	-	-	-	-	..	-	..
Electric boilers	-	-	-	-	-	-	..	-	..
Other sources	-	1.61	1.61	1.47	0.85	0.85	..	-	..

1. Electricity generated from main activity producer power plants and autoproducers.

2. Includes wave, ocean and other sources (e.g. fuel cells, electricity from chemical heat).

3. Total heat generation = gross production of heat from main activity producer + heat sold in autoproducers.

New Zealand

Table 5. Net electricity production by autoproducers (GWh)

	1974	1990	2000	2010	2012	2013	2014	74-00	00-14
Total	262	799	1473	1300	1283	1317	1308	6.9	-0.8
Total energy	-	-	-	-	-	-	-	-	-
Coal mines	-	-	-	-	-	-	-	-	-
Oil and gas extraction	-	-	-	-	-	-	-	-	-
Patent fuel plants	-	-	-	-	-	-	-	-	-
Coke ovens	-	-	-	-	-	-	-	-	-
Gas works	-	-	-	-	-	-	-	-	-
BKB	-	-	-	-	-	-	-	-	-
Oil refineries	-	-	-	-	-	-	-	-	-
Energy non specified/other	-	-	-	-	-	-	-	-	-
Total industry	-	573	1057	1204	1185	1214	1195	-	0.9
Iron and steel	-	120	508	607	578	599	588	-	1.1
Chemical and petrochemical	-	63	63	57	35	33	33	-	-4.5
Non-ferrous metals	-	-	-	-	-	-	-	-	-
Non-metallic minerals	-	-	-	-	-	-	-	-	-
Transport equipment	-	-	-	-	-	-	-	-	-
Machinery	-	-	-	-	-	-	-	-	-
Mining and quarrying	-	-	-	-	-	-	-	-	-
Food and tobacco	-	-	-	64	65	65	65	-	-
Pulp and printing	-	-	-	-	-	-	-	-	-
Wood and wood products	-	390	486	476	507	517	509	-	0.3
Construction	-	-	-	-	-	-	-	-	-
Textile and leather	-	-	-	-	-	-	-	-	-
Non specified/other industries	-	-	-	-	-	-	-	-	-
Total transport	-	-	-	-	-	-	-	-	-
Rail	-	-	-	-	-	-	-	-	-
Pipeline	-	-	-	-	-	-	-	-	-
Transport non specified	-	-	-	-	-	-	-	-	-
Other	262 e	226	416	96	98	103	113	1.8	-8.9
Commerce and pub. services	-	106	70	96	93	97	98	-	2.4
Residential	-	-	-	-	4	5	13	-	-
Agriculture	-	-	-	-	1	1	2	-	-
Fishing	-	-	-	-	-	-	-	-	-
Sector non specified	262 e	120	346	-	-	-	-	1.1	-

Notes: Data reported in this table prior to 1990 may refer to combustible fuels only.

New Zealand

Table 6a. Electricity production from combustible fuels in electricity plants¹

	1990	2000	2005	2010	2012	2013	2014	90-00	00-14
Steam coal									
Fuel input (1000 t)	232	430	2406	637	1347	812	612	6.4	2.6
Fuel input (TJ)	4888	9096	50719	13039	27563	16529	12606	6.4	2.4
Electricity production (GWh)	467	951	5208	1391	2911	1732	1314	7.4	2.3
Lignite									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
Coal manufactured gases²									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
Other coal products³									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
Oil and petroleum products									
Fuel input (1000 t)	6	-	1	-	1	1	-	-	-
Fuel input (TJ)	137	-	42	17	38	31	22	-	-
Electricity production (GWh)	10	-	4	2	3	3	3	-	-
Natural gas²									
Fuel input (TJ)	56983	70830	56622	62773	52680	54133	42050	2.2	-3.7
Electricity production (GWh)	5650	7953	7328	8351	7288	7298	5660	3.5	-2.4
Solid biofuels									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
Industrial waste									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
Municipal waste									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
Biogases and liquid biofuels									
Fuel input (TJ)	288	830	1500	1776	1981	1925	1927	11.2	6.2
Electricity production (GWh)	27	76	138	163	183	178	179	10.9	6.3
Total combustible fuels									
Electricity production (GWh)	6154	8980	12678	9907	10385	9211	7156	3.9	-1.6

1. Excludes CHP plants.

2. Coal manufactured gases and natural gas are expressed on a gross calorific value basis.

3. Includes Coking coal as well as peat and peat products, patent fuels, BKB and shale oil

New Zealand

**Table 6b. Electricity and heat produced for sale from combustible fuels
in combined heat and power plants (CHP plants)**

	1990	2000	2005	2010	2012	2013	2014	90-00	00-14
Steam coal									
Fuel input (1000 t)	28	18	18	2	4	4	4	-4.3	-10.2
Fuel input (TJ)	585	391	381	48	86	82	86	-3.9	-10.3
Electricity production (GWh)	52	35	34	4	8	8	8	-3.9	-10.0
CHP Heat production (TJ)	-	-	-	-	-	-	-	-	-
Lignite									
Fuel input (1000 t)	13	13	13	16	13	12	12	-	-0.6
Fuel input (TJ)	185	185	192	226	178	168	168	-	-0.7
Electricity production (GWh)	17	17	18	21	17	16	16	-	-0.4
CHP Heat production (TJ)	-	-	-	-	-	-	-	-	-
Coal manufactured gases¹									
Fuel input (TJ)	1540	6518	7261	7772	7376	7671	7489	15.5	1.0
Electricity production (GWh)	128	543	605	648	615	639	624	15.5	1.0
CHP Heat production (TJ)	-	-	-	-	-	-	-	-	-
Other coal products²									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
CHP Heat production (TJ)	-	-	-	-	-	-	-	-	-
Petroleum products									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	40	-	-
Electricity production (GWh)	-	-	-	-	-	-	4	-	-
CHP Heat production (TJ)	-	-	-	-	-	-	-	-	-
Natural gas¹									
Fuel input (TJ)	714	17466	23594	19214	18477	16995	16845	37.7	-0.3
Electricity production (GWh)	60	1619	2089	1565	1573	1405	1431	39.0	-0.9
CHP Heat production (TJ)	-	-	-	-	-	-	-	-	-
Solid Biofuels									
Fuel input (TJ)	4059	5162	2998	3976	3860	3961	3961	2.4	-1.9
Electricity production (GWh)	360	478	296	370	386	395	389	2.9	-1.5
CHP Heat production (TJ)	-	-	-	-	-	-	-	-	-
Industrial waste									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
CHP Heat production (TJ)	-	-	-	-	-	-	-	-	-
Municipal waste									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
CHP Heat production (TJ)	-	-	-	-	-	-	-	-	-
Biogases and liquid biofuels									
Fuel input (TJ)	1229	363	746	758	673	709	721	-11.5	5.0
Electricity production (GWh)	113	33	69	68	62	65	66	-11.6	5.1
CHP Heat production (TJ)	-	-	-	-	-	-	-	-	-
Total combustible fuels									
Electricity production (GWh)	730	2725	3111	2676	2661	2528	2538	14.1	-0.5
CHP Heat production (TJ)	-	-	-	-	-	-	-	-	-

1. Coal manufactured gases and natural gas are expressed on a gross calorific value basis.

2. Includes Coking coal as well as peat and peat products, patent fuels, BKB and shale oil

New Zealand

Table 7. Net maximum electricity generating capacity on 31 December (GW)

	1974	1990	2000	2005	2010	2012	2013	2014
Total capacity¹	4.60	7.18	8.39	8.85	9.46	9.62	9.46	9.70
Nuclear	-	-	-	-	-	-	-	-
Hydro	3.48	4.62	5.19	5.35	5.25	5.25	5.26	5.26
<i>of which: pumped storage</i>	-	-	-	-	-	-	-	-
Geothermal	0.16	0.26	0.42	0.43	0.73	0.73	0.81	0.98
Solar PV	-	-	-	-	-	-	0.01	0.02
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	-	0.04	0.17	0.52	0.62	0.62	0.68
Other (e.g. fuel cells)	-	-	-	0.02	0.02	0.02	0.02	0.02
Combustible fuels	0.96	2.30	2.74	2.89	2.93	2.99	2.74	2.74
<i>of which⁽²⁾:</i>								
<i>Single-fired:</i>								
Coal and Coal products	0.20	0.11	0.11	0.01	0.01	0.01	0.01	0.01
Liquid fuels	0.24	0.34	-	0.16	0.16	0.16	0.16	0.16
Natural gas	0.18	0.20	1.53	1.13	1.49	1.80	1.80	1.80
Biofuels & waste	-	-	0.10	0.07	0.08	0.08	0.08	0.08
<i>Multi-fired:</i>								
Solid / liquid	-	-	-	-	-	-	-	-
Solid / natural gas	-	0.98	1.00	0.15	0.15	0.15	0.15	0.15
Liquid / natural gas	0.35	0.67	-	0.37	0.05	0.05	0.05	0.05
Solid / liquid / gas	-	-	-	1.00	1.00	0.75	0.50	0.50
<i>Type of generation</i>								
Steam	-	1.78	1.87	1.54	1.53	1.28	1.03	1.03
Internal combustion	-	0.01	0.04	0.03	0.04	0.05	0.05	0.05
Gas turbine	-	0.50	0.48	0.54	0.23	0.53	0.53	0.53
Combined cycle	-	-	0.35	0.78	1.14	1.14	1.14	1.14
Other	-	-	-	-	-	-	-	-
<i>Peak load</i>	..	5.12	5.57	6.08	6.33	6.42	6.43	6.43
Of which Autoproducers	-	-	0.24	0.26	0.25	0.26	0.26	0.27
Nuclear	-	-	-	-	-	-	-	-
Hydro	-	-	-	-	-	-	-	-
<i>of which: pumped storage</i>	-	-	-	-	-	-	-	-
Geothermal	-	-	0.01	0.01	0.01	0.01	0.01	0.01
Solar PV	-	-	-	-	-	-	0.01	0.02
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	-	-	-	-	-	-	-
Other (e.g. fuel cells)	-	-	-	0.02	0.02	0.02	0.02	0.02
Combustible fuels	-	-	0.23	0.23	0.22	0.22	0.22	0.22

1. Sum of available capacity figures

2. Breakdown of electrical capacity by type of fuel are shown in the individual country chapters.

New Zealand**Table 8. Capacity factors (%)**

	1974	1990	2000	2005	2010	2012	2013	2014
Total plants¹	46.7	51.3	53.4	55.4	54.2	52.5	52.2	51.2
Nuclear	-	-	-	-	-	-	-	-
Hydro	46.6	57.3	53.7	49.8	53.7	49.8	50.0	52.8
<i>of which: pumped storage</i>	-	-	-	-	-	-	-	-
Geothermal	92.3	93.2	79.8	83.3	91.9	96.7	90.1	84.6
Solar PV	-	-	-	-	-	14.3	11.4	9.6
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	-	38.1	41.7	35.6	38.0	37.1	37.0
Other (e.g. fuel cells)	-	-	-	44.0	36.7	22.8	21.0	21.0
Combustible fuels	39.6	34.2	48.8	62.5	49.0	49.8	48.9	40.4
Of which autoproducers	-	-	75.2	60.7	63.2	61.5	62.3	59.1
Nuclear	-	-	-	-	-	-	-	-
Hydro	-	-	-	57.1	45.7	49.5	49.5	49.5
<i>of which: pumped storage</i>	-	-	-	-	-	-	-	-
Geothermal	-	-	48.0	88.5	77.1	81.3	81.3	81.3
Solar PV	-	-	-	-	-	14.3	11.4	9.6
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	-	-	-	-	-	-	-
Other (e.g. fuel cells)	-	-	-	44.0	36.7	22.8	21.0	21.0
Combustible fuels	-	-	73.1	61.3	65.2	65.1	67.0	66.0

1. The capacity factor is defined as: the annual gross electricity generation (in GWh) divided by the net capacity (in GW) times 365 (days/year) times 24 (hours/day)

New Zealand

Table 10a. Share of electricity in total final consumption (%)

	1974	1990	2000	2005	2010	2012	2013	2014
Share of total final consumption	21.9	25.0	22.8	26.1	26.1	25.6	24.7	23.2
Industry	22.7	26.8	28.3	32.3	31.0	30.2	28.4	26.2
Iron and steel	70.6	46.8	52.4	56.6	55.9	44.4	35.2	29.4
Chem. and petrochemical	100.0	3.3	4.2	18.4	8.3	7.5	6.7	4.5
Non-ferrous metals	-	98.9	98.6	97.1	99.1	99.2	99.7	100.0
Non-metallic minerals	100.0	40.4	40.1	36.1	18.3	31.5	27.9	22.6
Transport equipment	-	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Machinery	100.0	54.3	46.2	64.2	30.1	24.3	22.4	42.2
Mining and quarrying	7.7	27.9	24.8	22.9	25.5	27.5	23.5	27.1
Food and tobacco	12.9	39.7	40.8	45.3	22.8	23.3	24.8	22.0
Paper, pulp and printing	-	52.8	52.8	53.5	43.2	41.5	32.4	28.3
Wood and wood products	38.5	2.7	7.9	7.9	14.2	11.6	11.3	11.5
Construction	6.6	2.2	18.3	16.2	13.4	14.4	19.3	24.2
Textile and leather	100.0	46.1	40.0	44.0	42.7	40.8	42.2	39.7
Non specified/other	1.7	2.9	5.2	5.3	18.3	17.5	13.4	14.5
Transport	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1
Rail Transport	100.0	-	-	-	-	-	-	-
Pipeline Transport	-	-	-	-	-	-	-	-
Road	-	-	-	-	-	-	-	-
Transport Non Specified	-	75.9	79.0	78.0	84.3	100.0	100.0	100.0
Other sectors	49.9	57.4	58.4	58.2	63.4	61.5	61.9	62.4
Commercial & publ. serv.	41.8	57.2	63.2	62.3	67.8	67.8	68.0	67.6
Residential	64.2	72.5	71.5	72.9	74.9	74.4	74.3	74.2
Agriculture	12.3	16.9	23.5	20.9	31.1	28.6	30.2	34.7
Fishing	-	1.6	2.9	4.9	11.3	8.7	6.3	4.5
Sector non specified	-	100.0	100.0	100.0	100.0	100.0	100.0	100.0

Table 10b. Share of heat in total final consumption (%)

	1974	1990	2000	2005	2010	2012	2013	2014
Share of total final consumption	-	-	-	-	-	-	-	-
Industry	-	-	-	-	-	-	-	-
Iron and steel	-	-	-	-	-	-	-	-
Chem. and petrochemical	-	-	-	-	-	-	-	-
Non-ferrous metals	-	-	-	-	-	-	-	-
Non-metallic minerals	-	-	-	-	-	-	-	-
Transport equipment	-	-	-	-	-	-	-	-
Machinery	-	-	-	-	-	-	-	-
Mining and quarrying	-	-	-	-	-	-	-	-
Food and tobacco	-	-	-	-	-	-	-	-
Paper, pulp and printing	-	-	-	-	-	-	-	-
Wood and wood products	-	-	-	-	-	-	-	-
Construction	-	-	-	-	-	-	-	-
Textile and leather	-	-	-	-	-	-	-	-
Non specified/other	-	-	-	-	-	-	-	-
Transport	-	-	-	-	-	-	-	-
Other sectors	-	-	-	-	-	-	-	-
Commercial & publ. serv.	-	-	-	-	-	-	-	-
Residential	-	-	-	-	-	-	-	-
Agriculture	-	-	-	-	-	-	-	-
Fishing	-	-	-	-	-	-	-	-
Sector non specified	-	-	-	-	-	-	-	-

Source: IEA/OECD World Energy Balances.

Norway

Figure 1. Total final consumption by fuel

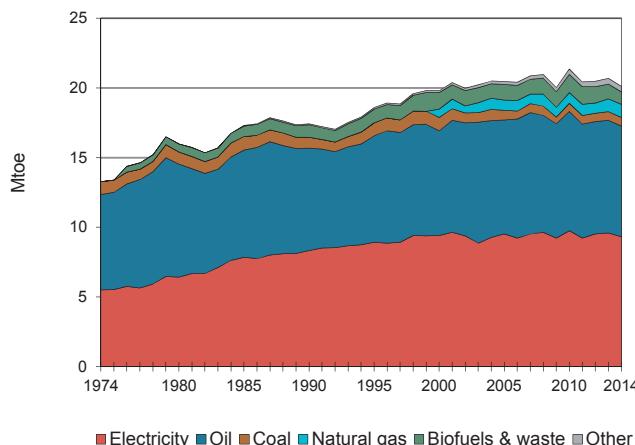


Figure 2. Electricity generation by fuel

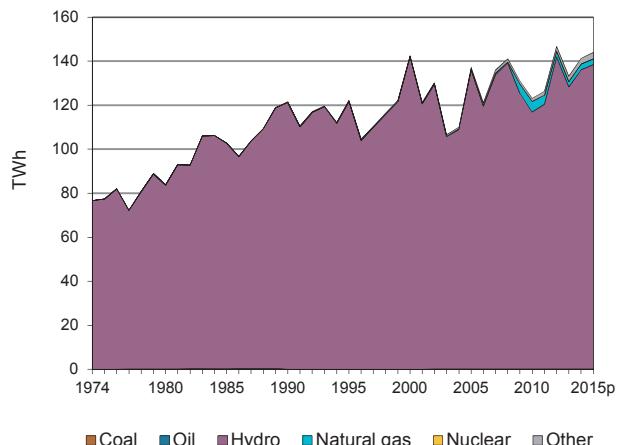


Figure 3. Electricity consumption by sector

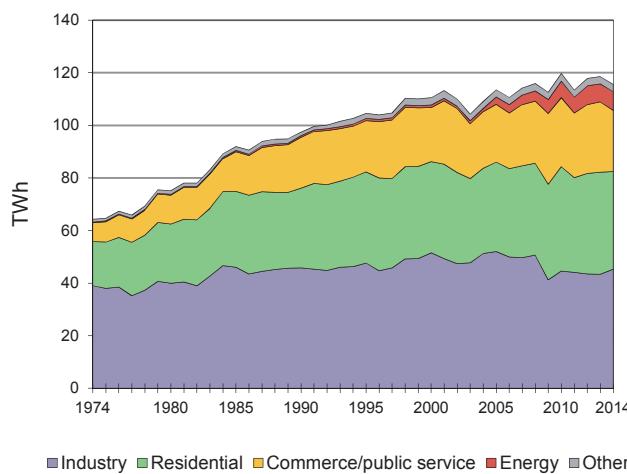


Figure 4. Electricity indicators

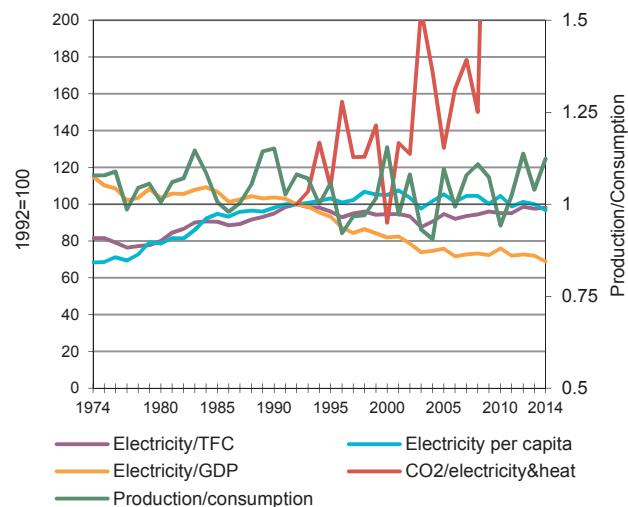
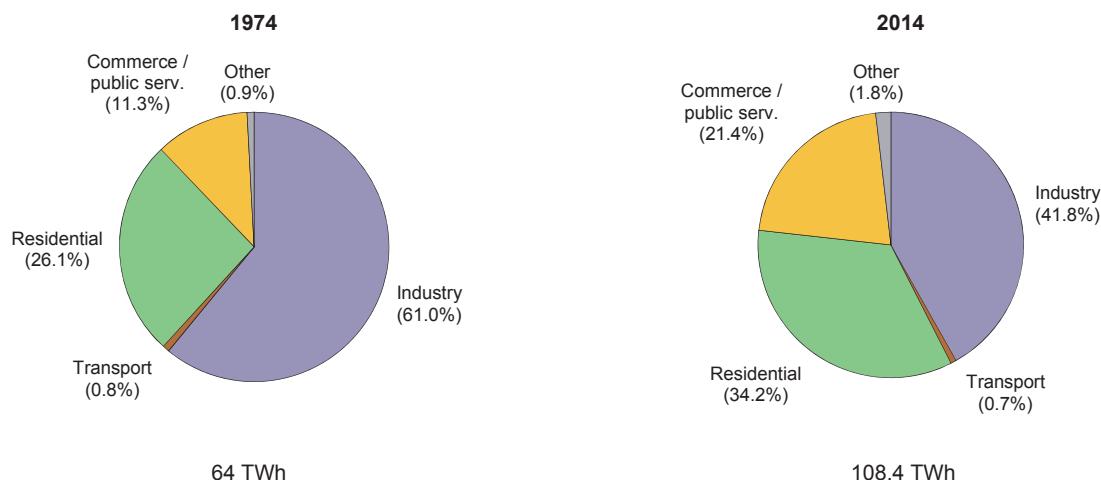


Figure 5. Total final electricity consumption by sector



Norway

Table 1. Energy consumption, GDP and population

	1974	1990	2000	2010	2013	2014	2015p	74-00	00-15
TPES (Mtoe)	14.27	21.07	26.16	33.90	32.59	28.75	30.19	2.4	1.0
GDP (billion 2005 USD)	151.26	255.70	367.06	428.53	449.01	458.96	466.29	3.5	1.6
TPES/GDP ¹	0.09	0.08	0.07	0.08	0.07	0.06	0.06	-1.1	-0.6
Population (millions)	3.99	4.24	4.49	4.89	5.08	5.14	5.19	0.5	1.0
TPES/population ²	3.58	4.97	5.83	6.93	6.42	5.60	5.81	1.9	-0.0
TPES/GDP (2005 = 100)	144	126	109	121	111	96	99	-1.1	-0.6
Ele.TFC/GDP(2005=100) ³	156	140	110	98	92	87	..	-1.3	..
Ele.TFC/population ⁴	16076	22835	24398	23214	21996	21111	..	1.6	..
Elec. generated (TWh) ⁵	76.65	121.61	142.51	123.24	133.43	141.59	144.30	2.4	0.1

Source: IEA/OECD *World Energy Balances* and OECD *Main Economic Indicators*.

Table 2. Total primary energy supply (TPES) by source

	1974	1990	2000	2010	2013	2014	2015p	74-00	00-15
TPES (Mtoe)	14.27	21.07	26.16	33.90	32.59	28.75	30.19	2.4	1.0
Coal	1.02	0.86	1.05	0.76	0.78	0.85	0.81	0.1	-1.7
Oil	7.12	8.13	9.02	12.86	13.65	10.88	11.02	0.9	1.3
Natural gas	0.01	1.98	4.14	7.75	5.73	4.94	5.82	25.1	2.3
Biofuels & waste	-	1.03	1.36	1.70	1.62	1.44	1.58	-	1.0
Nuclear	-	-	-	-	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-	-	-
Solar, wind, tide ⁶	-	-	0.00	0.08	0.16	0.19	0.22	-	34.1
Hydro	6.59	10.42	12.20	10.04	11.02	11.69	11.89	2.4	-0.2
Net electricity imports ⁷	-0.48	-1.37	-1.64	0.65	-0.43	-1.34	-1.26	4.9	-1.7
Heat	-	0.02	0.02	0.06	0.06	0.10	0.11	-	11.5

Source: IEA/OECD *World Energy Balances*.

1. In units of toe/2005 thousand US dollars.
2. In units of toe/per capita.
3. Ele.TFC = electricity total final consumption.
4. In units of kWh/per capita.
5. Electricity generated = gross production - amount of electricity produced in pumped storage plants.
6. Includes wave, ocean and other (e.g. fuel cells).
7. Net Imports = total imports - total exports

Norway

Table 3a. Summary electricity production and consumption¹ (TWh)

	1974	1990	2000	2005	2010	2013	2014	2015e
Gross production	76.70	121.85	142.98	138.01	123.64	133.98	142.33	145.02
- Own use by power plant	0.55	1.02	0.67	0.64	0.57	0.62	0.71	-
Net production	76.15	120.83	142.32	137.37	123.07	133.36	141.62	-
- Used for heat pumps	-	0.01	0.04	0.07	0.18	0.23	0.20	0.17
- Used for electric boilers	-	0.32	0.38	0.63	0.67	0.77	0.66	0.67
- Used for pumped storage	0.07	0.34	0.66	1.09	0.57	0.78	1.03	1.57
+ Imports	0.06	0.33	1.47	3.65	14.67	10.14	6.35	7.37
- Exports	5.61	16.24	20.53	15.70	7.12	15.14	21.93	22.02
Electrical energy supplied	70.54	104.26	122.18	123.54	129.20	126.57	124.14	..
- Transmission & distr. losses	6.25	6.89	11.68	10.00	9.49	8.04	8.59	..
- Statistical difference	-	-	-	-	-	-	-	..
Total consumption	64.29	97.37	110.50	113.54	119.71	118.53	115.55	..
Energy industry consumption²	0.25	0.57	0.97	2.81	6.26	6.83	7.14	..
Coal Mines	0.02	0.02	0.01	0.03	0.03	0.04	0.03	..
Oil + Gas Extraction	-	0.10	0.42	2.20	5.40	6.22	6.57	..
Patent Fuel Plants	-	-	-	-	-	-	-	..
Coke Ovens	0.12	-	-	-	-	-	-	..
BKB plants	-	-	-	-	-	-	-	..
Gas Works	-	-	-	-	-	-	-	..
Blast Furnaces	-	-	-	-	-	-	-	..
Oil Refineries	0.12	0.45	0.51	0.56	0.81	0.56	0.51	..
Nuclear Industry	-	-	-	-	-	-	-	..
Coal Liquefaction Plants	-	-	-	-	-	-	-	..
LNG/Regasification Plants	-	-	-	-	-	-	-	..
Energy - Non Specified	-	-	0.02	0.02	0.01	0.01	0.04	..
Final consumption	64.04	96.81	109.53	110.73	113.45	111.70	108.41	..
Industry	39.04	45.81	51.57	52.03	44.54	43.34	45.33	..
Iron and steel	8.75	8.26	7.88	5.65	4.68	5.02	5.32	..
Chem. and petrochemical	5.74	6.09	7.76	7.62	7.81	7.23	7.71	..
Non-ferrous metals	13.92	16.83	19.21	23.76	18.68	19.24	19.66	..
Non-metallic minerals	0.79	0.76	0.90	0.89	0.86	0.89	1.01	..
Transport equipment	0.47	0.56	0.79	0.72	0.56	0.54	0.61	..
Machinery	1.01	1.69	1.39	1.22	1.17	1.16	1.38	..
Mining and quarrying	0.76	0.71	0.51	0.46	0.56	0.59	0.61	..
Food and tobacco	1.37	2.29	3.13	2.81	2.72	2.60	3.03	..
Paper, pulp and printing	5.14	7.21	7.71	6.75	5.06	3.64	3.57	..
Wood and wood products	0.49	0.57	0.84	0.72	0.72	0.61	0.68	..
Construction	0.31	0.53	0.59	0.71	1.17	1.28	1.28	..
Textile and leather	0.27	0.16	0.21	0.17	0.08	0.08	0.10	..
Non specified/other	0.03	0.16	0.65	0.56	0.50	0.47	0.41	..
Transport	0.53	0.65	0.62	0.60	0.69	0.73	0.76	..
Rail Transport	0.53	0.64	0.62	0.60	0.69	0.71	0.70	..
Pipeline Transport	-	-	-	-	-	-	-	..
Road	-	-	-	-	0.00	0.03	0.07	..
Transport Non Specified	-	0.01	-	-	-	-	-	..
Commercial & publ. serv.	16.69	30.30	34.64	34.01	39.75	38.91	37.12	..
Residential	7.22	19.37	20.59	21.95	26.26	26.67	23.19	..
Agriculture	0.55	0.68	2.11	1.99	2.01	1.85	1.80	..
Fishing	-	-	-	0.16	0.20	0.20	0.20	..
Sector non specified	-	-	-	-	-	-	-	..

1. Electricity generation from main activity producer power plants and autoproducers .

2. Energy industry consumption = electricity consumed by transformation industries for heating, traction and lighting purposes;

excludes own use by power plant and electricity used for heat pumps, electric boilers and pumped storage.

Norway

Table 3b. Summary heat production and consumption¹ (TJ)

	1974	1990	2000	2005	2010	2013	2014	2015e
Gross production	-	6471	8222	12727	22256	25694	26026	27372
- Own use by power plant	-	-	365	425	-	-	29	-
Net production	-	6471	7857	12302	22256	25694	25997	-
- Used for electricity production	-	2184 e	1347 e	2022 e	1636	3286	5478	5186
+ Imports	-	-	-	-	-	-	-	-
- Exports	-	-	-	-	-	-	-	-
Heat energy supplied	-	4287	6510	10280	20620	22408	20519	..
- Transmission & distr. losses	-	1170 e	1136 e	1535	4291	4747	3687	..
- Statistical difference	-	-	-	-	-	43	-	..
Total consumption	-	3117	5374	8745	16329	17618	16832	..
Energy industry consumption²	-	-	-	15	248	-	-	..
Coal Mines	-	-	-	2	-	-	-	..
Oil + Gas Extraction	-	-	-	-	-	-	-	..
Patent Fuel Plants	-	-	-	-	-	-	-	..
Coke Ovens	-	-	-	-	-	-	-	..
BKB plants	-	-	-	-	-	-	-	..
Gas Works	-	-	-	-	-	-	-	..
Blast Furnaces	-	-	-	-	-	-	-	..
Oil Refineries	-	-	-	-	248	-	-	..
Nuclear Industry	-	-	-	-	-	-	-	..
Coal Liquefaction Plants	-	-	-	-	-	-	-	..
LNG/Regasification Plants	-	-	-	-	-	-	-	..
Energy - Non Specified	-	-	-	13	-	-	-	..
Final consumption	-	3117	5374	8730	16081	17618	16832	..
Industry	-	675	811	1078	1662	1968	2114	..
Iron and steel	-	24	18	39	9	5	6	..
Chem. and petrochemical	-	305	292	351	518	471	534	..
Non-ferrous metals	-	-	3	7	42	33	26	..
Non-metallic minerals	-	-	2	14	9	4	16	..
Transport equipment	-	-	47	92	131	115	112	..
Machinery	-	-	36	70	157	156	140	..
Mining and quarrying	-	-	-	-	6	6	5	..
Food and tobacco	-	-	316	373	529	623	746	..
Paper, pulp and printing	-	-	12	14	15	262	290	..
Wood and wood products	-	-	84	104	225	281	225	..
Construction	-	-	-	-	-	-	-	..
Textile and leather	-	-	-	-	2	-	1	..
Non specified/other	-	346	1	14	19	12	13	..
Transport	-	-	-	-	-	-	-	..
Commercial & publ. serv.	-	1389	3674	6111	10508	11737	11105	..
Residential	-	1031	855	1537	3902	3897	3599	..
Agriculture	-	22	34	4	9	16	14	..
Fishing	-	-	-	-	-	-	-	..
Sector non specified	-	-	-	-	-	-	-	..

1. Heat generation from main activity producer power plants and autoproducers.

2. Energy industry consumption = electricity consumed by transformation industries for heating, traction and lighting purposes;

excludes own use by power plant and electricity used for heat pumps, electric boilers and pumped storage.

Norway

Table 4a. Gross electricity production by source (TWh)

	1974	1990	2000	2010	2013	2014	2015e	74-00	00-15
Total plants gross production¹	76.70	121.85	142.98	123.64	133.98	142.33	145.02	2.4	0.1
Nuclear	-	-	-	-	-	-	-	-	-
Hydro	76.64	121.38	142.29	117.15	128.70	136.64	139.01	2.4	-0.2
- Of which pumped storage	0.05	0.24	0.47	0.40	0.55	0.74	0.72	9.3	2.9
Geothermal	-	-	-	-	-	-	-	-	-
Solar	-	-	-	-	-	-	-	-	-
Wind	-	-	0.03	0.88	1.88	2.22	2.52	-	34.1
Combustible fuels	0.06	0.33	0.58	5.45	3.15	3.17	3.20	9.4	12.1
- Coal	..	0.08 e	0.07 e	0.11	0.15	0.16	0.15	-	5.1
- Oil	..	0.01	0.01	0.03	0.04	0.03	0.03	..	8.1
- Natural gas	..	-	0.21	4.87	2.45	2.60	2.60	..	18.2
- Biofuels & waste	..	0.24	0.29	0.45	0.51	0.39	0.42	..	2.5
Other ²	-	0.14 e	0.08 e	0.16	0.24	0.30	0.30	-	8.8
Of which autoproducers	11.04	12.85	15.16	10.05	8.47	7.67	..	1.2	..
Nuclear	-	-	-	-	-	-	..	-	..
Hydro	11.01	12.60	14.65	4.77	5.56	4.72	..	1.1	..
- Of which pumped storage	-	0.01	0.07	0.02	0.02	0.02	..	-	..
Geothermal	-	-	-	-	-	-	..	-	..
Solar	-	-	-	-	-	-	..	-	..
Wind	-	-	-	-	-	-	..	-	..
Combustible fuels	0.03	0.18	0.45	5.15	2.67	2.65	..	11.6	..
- Coal	..	-	-	-	-	-
- Oil	..	-	0.01	0.03	0.04	0.03
- Natural gas	..	-	0.21	4.87	2.45	2.60
- Biofuels & waste	..	0.18	0.23	0.26	0.18	0.02
Other ²	-	0.07	0.06	0.13	0.24	0.30	..	-	..

Table 4b. Gross heat production by source (PJ)

	1974	1990	2000	2010	2013	2014	2015e	74-00	00-15
Total plants heat generation³	-	6.47	8.22	22.26	25.69	26.03	27.37	-	8.3
Nuclear	-	-	-	-	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-	-	-
Combustible fuels	-	3.89	5.14	15.36	18.26	17.42	19.55	-	9.3
- Coal	..	0.16	0.46	0.26	0.24	0.24	0.39	..	-1.2
- Oil	..	0.06	0.53	2.98	0.75	0.44	0.45	..	-1.1
- Natural gas	..	-	0.10	0.64	0.50	0.45	0.36	..	8.8
- Biofuels & waste	..	3.67 e	4.05	11.48	16.76	16.29	18.36	..	10.6
Chemical processes	-	0.78 e	0.70 e	1.37	1.19	3.20	3.12	-	10.5
Heat pumps	-	0.06	0.31	1.88	2.32	1.68	1.95	-	13.1
Electric boilers	-	1.04	1.38	2.38	2.76	2.41	2.42	-	3.8
Other sources	-	0.71 e	0.69 e	1.27	1.16	1.31	0.33	-	-4.9
Of which Autoproducers	-	1.55	0.95	1.64	1.62	3.79	..	-	..
Nuclear	-	-	-	-	-	-	..	-	..
Geothermal	-	-	-	-	-	-	..	-	..
Combustible fuels	-	0.06	0.03	-	-	-	..	-	..
- Coal	..	-	-	-	-	-
- Oil	..	-	0.00	-	-	-
- Natural gas	..	-	-	c	c	c
- Biofuels & waste	..	0.06 e	0.03	-	-	-
Chemical processes	-	0.78 e	0.70 e	1.37	1.19	3.20	..	-	-
Heat pumps	-	-	-	-	-	-	..	-	..
Electric boilers	-	-	0.01	-	-	-	..	-	..
Other sources	-	0.71 e	0.22 e	0.26	0.42	0.59	..	-	-

1. Electricity generated from main activity producer power plants and autoproducers.

2. Includes wave, ocean and other sources (e.g. fuel cells, electricity from chemical heat).

3. Total heat generation = gross production of heat from main activity producer + heat sold in autoproducers.

Norway**Table 5. Net electricity production by autoproducers (GWh)**

	1974	1990	2000	2010	2012	2013	2014	74-00	00-14
Total	10972	12756	15081	9978	8604	8472	7643	1.2	-4.7
Total energy	10947	12448	211	4640	2461	2329	1500	-14.1	15.0
Coal mines	-	-	-	-	-	-	-	-	-
Oil and gas extraction	-	-	-	4640	2461	2329	1500	-	-
Patent fuel plants	-	-	-	-	-	-	-	-	-
Coke ovens	-	-	-	-	-	-	-	-	-
Gas works	-	-	-	-	-	-	-	-	-
BKB	-	-	-	-	-	-	-	-	-
Oil refineries	-	-	-	-	-	-	-	-	-
Energy non specified/other	-	-	-	-	-	-	-	-	-
Total industry	25	308	13149	5321	6124	6124	6124	27.2	-5.3
Iron and steel	9	108	707	997	966	966	966	18.3	2.3
Chemical and petrochemical	-	-	2410	1226	1457	1457	1457	-	-3.5
Non-ferrous metals	-	-	8945	2802	3450	3450	3450	-	-6.6
Non-metallic minerals	-	-	-	-	-	-	-	-	-
Transport equipment	-	-	-	-	-	-	-	-	-
Machinery	-	-	-	1	-	-	-	-	-
Mining and quarrying	-	-	-	31	35	35	35	-	-
Food and tobacco	-	-	-	4	4	4	4	-	-
Pulp and printing	16	200	964	244	203	203	203	17.1	-10.5
Wood and wood products	-	-	-	5	-	-	-	-	-
Construction	-	-	-	2	-	-	-	-	-
Textile and leather	-	-	-	-	-	-	-	-	-
Non specified/other industries	-	-	123	9	9	9	9	-	-17.0
Total transport	-	-	-	-	-	-	-	-	-
Rail	-	-	-	-	-	-	-	-	-
Pipeline	-	-	-	-	-	-	-	-	-
Transport non specified	-	-	-	-	-	-	-	-	-
Other	-	-	1721	17	19	19	19	-	-27.5
Commerce and pub. services	-	-	646	17	19	19	19	-	-22.3
Residential	-	-	18	-	-	-	-	-	-
Agriculture	-	-	-	-	-	-	-	-	-
Fishing	-	-	-	-	-	-	-	-	-
Sector non specified	-	-	1057 e	-	-	-	-	-	-

Notes: Data reported in this table prior to 1990 may refer to combustible fuels only.

Norway

Table 6a. Electricity production from combustible fuels in electricity plants¹

	1990	2000	2005	2010	2012	2013	2014	90-00	00-14
Steam coal									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
Lignite									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
Coal manufactured gases²									
Fuel input (TJ)	309 e	255 e	463	329	658	507	610	-1.9	6.4
Electricity production (GWh)	39 e	32 e	90	64	128	111	119	-2.0	9.8
Other coal products³									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
Oil and petroleum products									
Fuel input (1000 t)	2	1	2	3	4	3	3	-6.7	8.2
Fuel input (TJ)	72	39	104	138	185	167	125	-5.9	8.7
Electricity production (GWh)	6	9	23	31	35	37	28	4.1	8.4
Natural gas²									
Fuel input (TJ)	-	1269	2256	36196	18408	15058	16098	-	19.9
Electricity production (GWh)	-	211	375	4865	2631	2452	2601	-	19.7
Solid biofuels									
Fuel input (TJ)	946	1163	1513	1271	1350	1120	80	2.1	-17.4
Electricity production (GWh)	184	226	290	244	203	170	12	2.1	-18.9
Industrial waste									
Fuel input (TJ)	-	-	62	115	295	112	103	-	-
Electricity production (GWh)	-	-	6	11	28	11	10	-	-
Municipal waste									
Fuel input (TJ)	-	-	56	-	-	-	-	-	-
Electricity production (GWh)	-	-	10	-	-	-	-	-	-
Biogases and liquid biofuels									
Fuel input (TJ)	-	-	-	50	55	76	75	-	-
Electricity production (GWh)	-	-	-	7	12	11	11	-	-
Total combustible fuels									
Electricity production (GWh)	229 e	478 e	794	5222	3037	2792	2781	7.6	13.4

1. Excludes CHP plants.

2. Coal manufactured gases and natural gas are expressed on a gross calorific value basis.

3. Includes Coking coal as well as peat and peat products, patent fuels, BKB and shale oil

Norway

**Table 6b. Electricity and heat produced for sale from combustible fuels
in combined heat and power plants (CHP plants)**

	1990	2000	2005	2010	2012	2013	2014	90-00	00-14
Steam coal									
Fuel input (1000 t)	21	23	25	26	22	25	25	0.9	0.6
Fuel input (TJ)	578	652	708	735	645	710	710	1.2	0.6
Electricity production (GWh)	43	40	42	41	35	40	38	-0.7	-0.4
CHP Heat production (TJ)	108	456	345	244	246	233	235	15.5	-4.6
Lignite									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
CHP Heat production (TJ)	-	-	-	-	-	-	-	-	-
Coal manufactured gases¹									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
CHP Heat production (TJ)	-	-	-	-	-	-	-	-	-
Other coal products²									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
CHP Heat production (TJ)	-	-	-	-	-	-	-	-	-
Petroleum products									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
CHP Heat production (TJ)	-	-	-	-	-	-	-	-	-
Natural gas¹									
Fuel input (TJ)	-	-	13	c	c	c	c	-	c
Electricity production (GWh)	-	-	-	c	c	c	c	-	c
CHP Heat production (TJ)	-	-	11	c	c	c	c	-	c
Solid Biofuels									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
CHP Heat production (TJ)	-	-	-	-	-	-	-	-	-
Industrial waste									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
CHP Heat production (TJ)	-	-	-	-	-	-	-	-	-
Municipal waste									
Fuel input (TJ)	1988	2390	3822	6880	9500	11647	12700	1.9	12.7
Electricity production (GWh)	58	60	76	185	279	318	351	0.3	13.4
CHP Heat production (TJ)	1421	1777	3128	5532	8221	9291	8814	2.3	12.1
Biogases and liquid biofuels									
Fuel input (TJ)	-	-	-	38	26	17	18	-	-
Electricity production (GWh)	-	-	-	6	3	2	2	-	-
CHP Heat production (TJ)	-	-	-	14	13	5	6	-	-
Total combustible fuels									
Electricity production (GWh)	101	100	118	232	317	360	391	-0.1	10.2
CHP Heat production (TJ)	1529	2233	3484	5790	8480	9529	9055	3.9	10.5

1. Coal manufactured gases and natural gas are expressed on a gross calorific value basis.

2. Includes Coking coal as well as peat and peat products, patent fuels, BKB and shale oil

Norway**Table 6c. Heat produced for sale from combustible fuels in heat plants¹**

	1990	2000	2005	2010	2012	2013	2014	90-00	00-14
Steam coal									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Heat production (TJ)	-	-	-	-	-	-	-	-	-
Lignite									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Heat production (TJ)	-	-	-	-	-	-	-	-	-
Coal manufactured gases²									
Fuel input (TJ)	54	10	25	23	14	12	9	-15.5	-0.7
Heat production (TJ)	54	6	15	14	9	8	6	-19.7	-
Other coal products³									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Heat production (TJ)	-	-	-	-	-	-	-	-	-
Petroleum products									
Fuel input (1000 t)	2	16	13	77	29	19	11	23.1	-2.6
Fuel input (TJ)	76	681	556	3354	1241	844	491	24.5	-2.3
Heat production (TJ)	60	529	447	2977	1013	754	441	24.3	-1.3
Natural gas²									
Fuel input (TJ)	-	126 e	339	752	715	588	525	-	10.7
Heat production (TJ)	-	102	305	643	611	502	447	-	11.1
Solid biofuels									
Fuel input (TJ)	126 e	296	1724	4755	5210	5394	5080	8.9	22.5
Heat production (TJ)	73 e	160	1316	3237	3236	3350	3144	8.2	23.7
Industrial waste									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Heat production (TJ)	-	-	-	-	-	-	-	-	-
Municipal waste									
Fuel input (TJ)	2527	2588	2710	3116	3900	4160	5086	0.2	4.9
Heat production (TJ)	2175	2102	2328	2630	2801	3883	4071	-0.3	4.8
Biogases and liquid biofuels									
Fuel input (TJ)	-	14	9	77	151	329	424	-	27.6
Heat production (TJ)	-	12	8	64	123	234	258	-	24.5
Total combustible fuels									
Heat production (TJ)	2362 e	2911	4419	9565	7793	8731	8367	2.1	7.8

1. Excludes CHP plants

2. Coal manufactured gases and natural gas are expressed on a gross calorific value basis.

3. Includes Coking coal as well as peat and peat products, patent fuels, BKB and shale oil

Norway**Table 7. Net maximum electricity generating capacity on 31 December (GW)**

	1974	1990	2000	2005	2010	2012	2013	2014
Total capacity¹	16.24	27.13	28.42	29.12	31.69	32.86	33.49	33.65
Nuclear	-	-	-	-	-	-	-	-
Hydro	16.08	26.88	28.13	28.55	29.69	30.51	31.03	31.15
<i>of which: pumped storage</i>	0.13	1.07	1.36	1.33	1.33	1.35	1.35	1.35
Geothermal	-	-	-	-	-	-	-	-
Solar PV	-	-	0.01	0.01
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	-	0.01	0.27	0.43	0.71	0.82	0.86
Other (e.g. fuel cells)	-	-	-	0.03	0.04	0.04	0.04	0.04
Combustible fuels	0.16	0.25	0.27	0.27	1.54	1.61	1.60	1.60
<i>of which⁽²⁾:</i>								
<i>Single-fired:</i>								
Coal and Coal products	0.01	0.05	0.08	0.06	-	-	-	-
Liquid fuels	0.15	0.14	0.01	0.02	0.02	0.02	0.02	0.02
Natural gas	-	-	0.04	0.04	1.39	1.46	1.45	1.45
Biofuels & waste	-	0.07	0.14	0.14	0.12	0.13	0.13	0.13
<i>Multi-fired:</i>								
Solid / liquid	-	-	-	0.02	0.01	-	-	-
Solid / natural gas	-	-	-	-	-	-	-	-
Liquid / natural gas	-	-	-	-	-	-	-	-
Solid / liquid / gas	-	-	-	-	-	-	-	-
<i>Type of generation</i>								
Steam	-	0.23	0.22	0.21	0.13	0.07	0.07	0.07
Internal combustion	-	0.02	0.01	0.02	0.02	0.02	0.02	0.02
Gas turbine	-	0.01	0.04	0.04	1.39	1.52	1.51	1.51
Combined cycle	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-
<i>Peak load</i>	10.88	17.23	20.40	20.68	23.99	23.99 e	23.99 e	23.99 e
Of which Autoproducers	2.02	2.42	2.34	0.97	2.07	2.07	2.07	2.07
Nuclear	-	-	-	-	-	-	-	-
Hydro	1.92	2.25	2.17	0.81	1.06	1.06	1.06	1.06
<i>of which: pumped storage</i>	-	-	0.21	0.08	0.04	0.04	0.04	0.04
Geothermal	-	-	-	-	-	-	-	-
Solar PV	-	-	0.01	0.01
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	-	-	-	-	-	-	-
Other (e.g. fuel cells)	-	-	-	0.02	0.02	0.02	0.02	0.02
Combustible fuels	0.11	0.16	0.16	0.14	0.99	0.99	0.99	0.99

1. Sum of available capacity figures

2. Breakdown of electrical capacity by type of fuel are shown in the individual country chapters.

Norway**Table 8. Capacity factors (%)**

	1974	1990	2000	2005	2010	2012	2013	2014
Total plants¹	53.9	51.3	57.4	54.1	44.5	51.3	45.7	48.3
Nuclear	-	-	-	-	-	-	-	-
Hydro	54.4	51.5	57.8	54.6	45.0	53.4	47.3	50.1
<i>of which: pumped storage</i>	4.0	-	-	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-	-
Solar PV	-	-	-	-
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	-	27.2	21.5	23.6	25.1	26.3	29.3
Other (e.g. fuel cells)	-	-	-	20.4	9.5	-	-	-
Combustible fuels	4.0	15.1	24.4	38.1	40.6	23.8	22.5	22.6
Of which autoproducers	62.3	60.8	74.0	75.1	55.3	47.4	46.6	42.2
Nuclear	-	-	-	-	-	-	-	-
Hydro	65.6	63.8	77.1	78.6	51.5	61.7	59.9	50.9
<i>of which: pumped storage</i>	-	-	-	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-	-
Solar PV	-	-	-	-
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	-	-	-	-	-	-	-
Other (e.g. fuel cells)	-	-	-	-	-	-	-	-
Combustible fuels	2.8	13.1	31.2	58.3	59.2	33.3	30.7	30.5

1. The capacity factor is defined as: the annual gross electricity generation (in GWh) divided by the net capacity (in GW) times 365 (days/year) times 24 (hours/day)

Norway**Table 9a. Electricity imports by origin (GWh)**

	1974	1990	2000	2005	2010	2012	2013	2014
Total imports	63	334	1474	3653	14673	4190	10135	6347
Total from OECD	38	334	1238	3438	14464	4039	9997	6241
Austria	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-
Canada	-	-	-	-	-	-	-	-
Czech Republic	-	-	-	-	-	-	-	-
Denmark	-	-	146	470	4056	674	2845	1467
Estonia	-	-	-	-	-	-	-	-
Finland	-	2	174	131	156	90	114	132
France	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-
Greece	-	-	-	-	-	-	-	-
Hungary	-	-	-	-	-	-	-	-
Ireland	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-
Luxembourg	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	2259	90	240	104
Norway	-	-	-	-	-	-	-	-
Poland	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-
Slovak Republic	-	-	-	-	-	-	-	-
Slovenia	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-
Sweden	38	332	918	2837	7993	3185	6798	4538
Switzerland	-	-	-	-	-	-	-	-
Turkey	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-
United States	-	-	-	-	-	-	-	-
Total from non-OECD	25	-	236	215	209	151	138	106
Albania	-	-	-	-	-	-	-	-
Azerbaijan	-	-	-	-	-	-	-	-
Belarus	-	-	-	-	-	-	-	-
Bulgaria	-	-	-	-	-	-	-	-
Croatia	-	-	-	-	-	-	-	-
F.Y.R. of Macedonia	-	-	-	-	-	-	-	-
Georgia	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-
Romania	-	-	-	-	-	-	-	-
Russian Federation	25	-	236	215	209	151	138	106
Serbia	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-
Turkmenistan	-	-	-	-	-	-	-	-
Ukraine	-	-	-	-	-	-	-	-
Non-specified/others	-	-	-	-	-	-	-	-

Norway**Table 9b. Electricity exports by destination (GWh)**

	1974	1990	2000	2005	2010	2012	2013	2014
Total exports	5607	16241	20529	15695	7124	22006	15141	21932
Total to OECD	5607	16241	20529	15695	7124	22006	15141	21932
Austria	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-
Canada	-	-	-	-	-	-	-	-
Czech Republic	-	-	-	-	-	-	-	-
Denmark	-	3950	4634	4713	1459	5457	2558	4134
Estonia	-	-	-	-	-	-	-	-
Finland	4	125	131	164	114	78	46	55
France	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-
Greece	-	-	-	-	-	-	-	-
Hungary	-	-	-	-	-	-	-	-
Ireland	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-
Luxembourg	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	1377	5870	4298	5676
Norway	-	-	-	-	-	-	-	-
Poland	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-
Slovak Republic	-	-	-	-	-	-	-	-
Slovenia	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-
Sweden	5603	12166	15764	10818	4174	10601	8239	12067
Switzerland	-	-	-	-	-	-	-	-
Turkey	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-
United States	-	-	-	-	-	-	-	-
Total to non-OECD	-	-	-	-	-	-	-	-
Albania	-	-	-	-	-	-	-	-
Azerbaijan	-	-	-	-	-	-	-	-
Belarus	-	-	-	-	-	-	-	-
Bulgaria	-	-	-	-	-	-	-	-
Croatia	-	-	-	-	-	-	-	-
F.Y.R. of Macedonia	-	-	-	-	-	-	-	-
Georgia	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-
Romania	-	-	-	-	-	-	-	-
Russian Federation	-	-	-	-	-	-	-	-
Serbia	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-
Turkmenistan	-	-	-	-	-	-	-	-
Ukraine	-	-	-	-	-	-	-	-
Non-specified/others	-	-	-	-	-	-	-	-

Norway

Table 10a. Share of electricity in total final consumption (%)

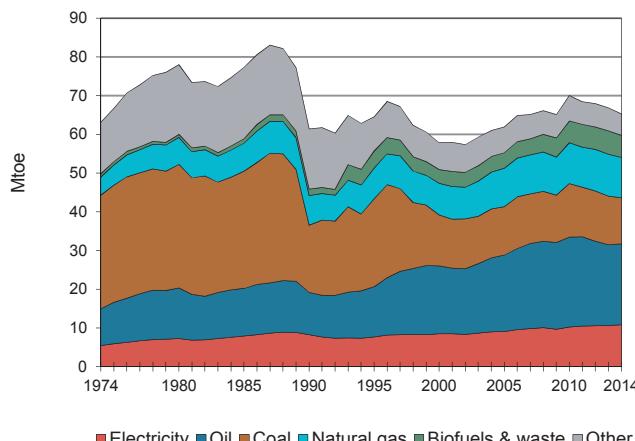
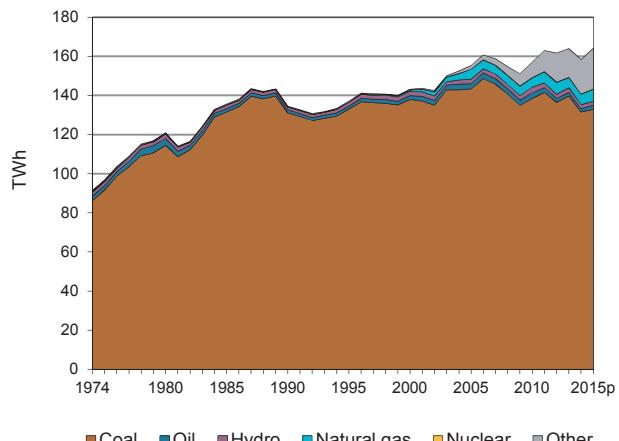
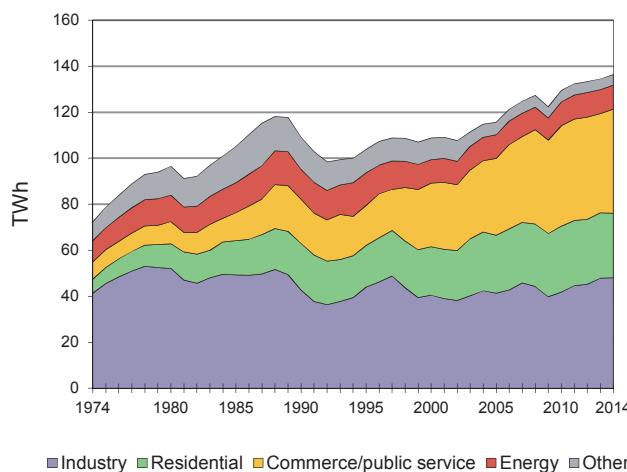
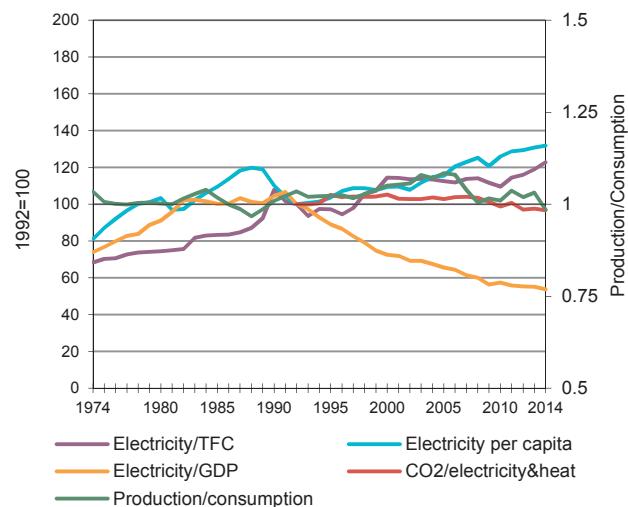
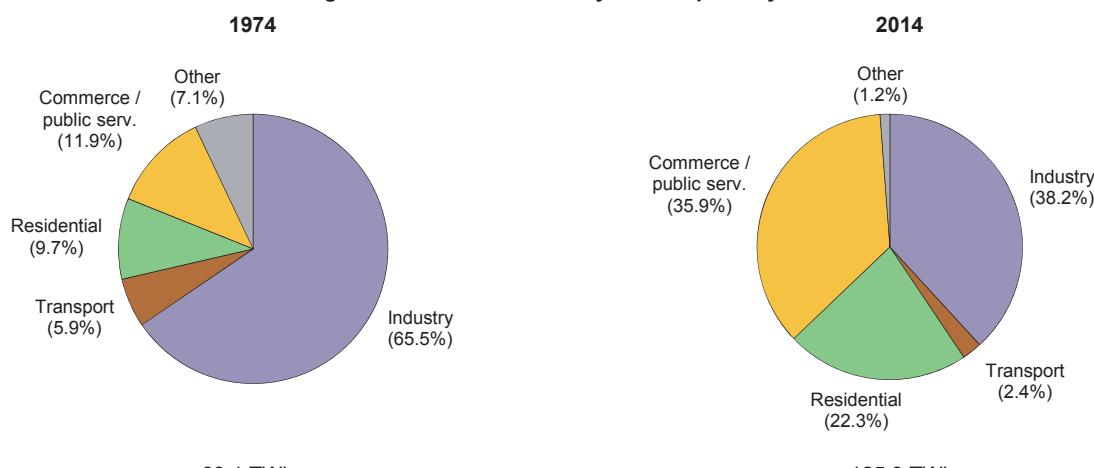
	1974	1990	2000	2005	2010	2012	2013	2014
Share of total final consumption	41.5	47.8	47.6	46.6	45.7	46.5	46.4	46.4
Industry	54.4	65.3	64.6	66.5	63.0	64.7	64.1	67.1
Iron and steel	53.4	56.0	54.3	56.0	61.3	65.8	62.1	62.6
Chem. and petrochemical	65.6	68.5	57.2	48.5	46.4	45.5	45.3	46.1
Non-ferrous metals	97.6	94.1	94.3	96.0	92.1	96.5	96.6	96.6
Non-metallic minerals	43.0	28.2	26.9	28.9	27.5	23.4	23.1	28.6
Transport equipment	100.0	70.4	84.1	73.9	70.0	72.7	74.6	80.7
Machinery	98.5	77.1	79.5	74.1	75.1	80.6	81.3	85.3
Mining and quarrying	100.0	51.8	55.8	42.4	43.9	40.0	39.3	44.8
Food and tobacco	100.0	49.5	67.2	64.2	61.7	60.4	59.4	66.4
Paper, pulp and printing	100.0	64.0	56.7	58.2	53.4	60.6	61.2	77.7
Wood and wood products	100.0	27.2	28.0	40.2	41.5	36.3	35.5	41.0
Construction	100.0	17.8	27.7	31.5	39.4	39.9	39.6	39.9
Textile and leather	100.0	53.3	69.5	73.8	81.5	94.0	72.5	75.2
Non specified/other	0.1	53.5	80.4	76.9	81.3	66.9	59.8	65.2
Transport	2.0	1.6	1.3	1.2	1.2	1.4	1.3	1.4
Rail Transport	65.0	62.8	75.6	78.4	81.7	83.2	81.0	81.9
Pipeline Transport	-	-	-	-	-	-	-	-
Road	-	-	-	-	0.0	0.0	0.1	0.2
Transport Non Specified	-	100.0	-	-	-	-	-	-
Other sectors	56.6	70.4	73.4	70.9	72.1	73.0	74.8	75.4
Commercial & publ. serv.	98.3	81.5	83.4	82.9	80.5	81.4	81.0	80.2
Residential	80.1	72.3	77.9	75.5	77.3	79.4	81.7	83.2
Agriculture	97.9	11.9	56.5	49.5	50.4	50.3	51.2	50.7
Fishing	-	-	-	3.0	3.6	3.3	3.8	4.4
Sector non specified	-	-	-	-	-	-	-	-

Table 10b. Share of heat in total final consumption (%)

	1974	1990	2000	2005	2010	2012	2013	2014
Share of total final consumption	-	0.4	0.7	1.0	1.8	1.9	2.0	2.0
Industry	-	0.3	0.3	0.4	0.7	0.7	0.8	0.9
Iron and steel	-	0.1	0.0	0.1	0.0	0.0	0.0	0.0
Chem. and petrochemical	-	1.0	0.6	0.6	0.9	0.7	0.8	0.9
Non-ferrous metals	-	-	-	0.0	0.1	0.1	0.1	0.0
Non-metallic minerals	-	-	0.0	0.1	0.1	0.1	0.0	0.1
Transport equipment	-	-	1.4	2.6	4.6	5.7	4.4	4.2
Machinery	-	-	0.6	1.2	2.8	3.3	3.0	2.4
Mining and quarrying	-	-	-	-	0.1	0.1	0.1	0.1
Food and tobacco	-	-	1.9	2.4	3.3	3.4	4.0	4.5
Paper, pulp and printing	-	-	0.0	0.0	0.0	0.0	1.2	1.8
Wood and wood products	-	-	0.8	1.6	3.6	4.7	4.6	3.8
Construction	-	-	-	-	-	-	-	-
Textile and leather	-	-	-	-	0.6	-	-	0.2
Non specified/other	-	32.3	0.0	0.5	0.9	0.5	0.4	0.6
Transport	-	-	-	-	-	-	-	-
Other sectors	-	1.0	1.6	2.6	4.2	4.3	4.8	5.0
Commercial & publ. serv.	-	1.6	4.1	6.4	8.9	9.3	9.9	10.7
Residential	-	0.7	0.5	1.0	2.1	2.0	2.3	2.2
Agriculture	-	0.1	0.3	0.0	0.1	0.1	0.1	0.1
Fishing	-	-	-	-	-	-	-	-
Sector non specified	-	-	-	-	-	-	-	-

Source: IEA/OECD World Energy Balances.

Poland

Figure 1. Total final consumption by fuel**Figure 2. Electricity generation by fuel****Figure 3. Electricity consumption by sector****Figure 4. Electricity indicators****Figure 5. Total final electricity consumption by sector**

Poland

Table 1. Energy consumption, GDP and population

	1974	1990	2000	2010	2013	2014	2015p	74-00	00-15
TPES (Mtoe)	97.07	103.11	88.77	100.44	97.60	94.02	94.59	-0.3	0.4
GDP (billion 2005 USD)	209.13	226.98	326.66	479.24	517.57	534.56	554.07	1.7	3.6
TPES/GDP ¹	0.46	0.45	0.27	0.21	0.19	0.18	0.17	-2.0	-3.1
Population (millions)	33.69	38.03	38.26	38.52	38.50	38.48	38.52	0.5	0.0
TPES/population ²	2.88	2.71	2.32	2.61	2.53	2.44	2.46	-0.8	0.4
TPES/GDP (2005 = 100)	192	188	112	87	78	73	71	-2.0	-3.1
Ele.TFC/GDP(2005=100) ³	109	153	109	90	87	85	..	0.0	..
Ele.TFC/population ⁴	1874	2531	2579	3092	3224	3272	..	1.2	..
Elec. generated (TWh) ⁵	91.27	134.42	143.17	157.09	164.02	158.51	164.23	1.7	0.9

Source: IEA/OECD *World Energy Balances* and OECD *Main Economic Indicators*.

Table 2. Total primary energy supply (TPES) by source

	1974	1990	2000	2010	2013	2014	2015p	74-00	00-15
TPES (Mtoe)	97.07	103.11	88.77	100.44	97.60	94.02	94.59	-0.3	0.4
Coal	77.85	78.87	56.30	54.66	53.01	49.31	48.09	-1.2	-1.0
Oil	11.52	13.04	19.16	25.40	22.21	21.99	23.15	2.0	1.3
Natural gas	6.43	8.94	9.96	12.80	13.73	13.40	13.77	1.7	2.2
Biofuels & waste	1.32	2.23	3.72	7.27	8.25	8.22	8.45	4.1	5.6
Nuclear	-	-	-	-	-	-	-	-	-
Geothermal	-	-	0.00	0.01	0.02	0.02	0.02	-	14.3
Solar, wind, tide ⁶	-	-	0.00	0.15	0.53	0.68	0.95	-	67.1
Hydro	0.18	0.12	0.18	0.25	0.21	0.19	0.16	-0.0	-0.9
Net electricity imports ⁷	-0.24	-0.09	-0.55	-0.12	-0.39	0.19	-0.03	3.3	-17.8
Heat	-	-	-	0.01	0.02	0.03	0.03	-	-

Source: IEA/OECD *World Energy Balances*.

1. In units of toe/2005 thousand US dollars.
2. In units of toe/per capita.
3. Ele.TFC = electricity total final consumption.
4. In units of kWh/per capita.
5. Electricity generated = gross production - amount of electricity produced in pumped storage plants.
6. Includes wave, ocean and other (e.g. fuel cells).
7. Net Imports = total imports - total exports

Poland

Table 3a. Summary electricity production and consumption¹ (TWh)

	1974	1990	2000	2005	2010	2013	2014	2015e
Gross production	91.60	136.31	145.18	156.94	157.66	164.58	159.06	164.83
- Own use by power plant	8.41	12.90	12.97	13.32	14.20	14.50	13.85	-
Net production	83.19	123.41	132.21	143.62	143.46	150.08	145.21	-
- Used for heat pumps	-	-	-	-	-	-	-	-
- Used for electric boilers	-	-	-	-	-	-	-	-
- Used for pumped storage	0.47	2.61	2.79	2.21	0.83	0.83	0.82	0.90
+ Imports	1.73	10.44	3.29	5.00	6.31	7.80	13.51	14.46
- Exports	4.49	11.48	9.66	16.19	7.66	12.32	11.34	14.79
Electrical energy supplied	79.96	119.76	123.05	130.22	141.28	144.73	146.56	..
- Transmission & distr. losses	7.57	10.56	14.23	14.56	11.85	10.25	10.25	..
- Statistical difference	-	-	-	-	-	-	-	..
Total consumption	72.39	109.20	108.82	115.66	129.42	134.48	136.31	..
Energy industry consumption²	9.26	12.96	10.17	10.27	10.36	10.39	10.45	..
Coal Mines	6.51	9.01	6.54	6.17	6.14	6.21	6.14	..
Oil + Gas Extraction	0.10	0.16	0.05	0.07	0.10	0.10	0.17	..
Patent Fuel Plants	0.02	0.00	-	-	-	-	-	..
Coke Ovens	0.44	0.76	0.67	0.70	0.79	0.76	0.79	..
BKB plants	0.01	0.00	0.00	-	-	-	-	..
Gas Works	0.44	0.21	0.08	0.05	0.08	0.07	0.07	..
Blast Furnaces	-	-	-	-	-	-	-	..
Oil Refineries	0.90	0.39	0.54	0.58	0.78	0.94	0.95	..
Nuclear Industry	-	-	-	-	-	-	-	..
Coal Liquefaction Plants	-	-	-	-	-	-	-	..
LNG/Regasification Plants	-	-	-	-	-	-	-	..
Energy - Non Specified	0.85	2.42	2.30	2.71	2.48	2.32	2.33	..
Final consumption	63.13	96.24	98.65	105.39	119.06	124.10	125.86	..
Industry	41.32	42.74	40.45	41.29	41.83	47.83	48.06	..
Iron and steel	6.08	7.48	7.19	5.92	5.89	6.09	6.02	..
Chem. and petrochemical	10.19	10.45	8.50	8.29	7.55	8.85	8.63	..
Non-ferrous metals	2.15	2.16	3.65	3.48	1.71	1.97	2.09	..
Non-metallic minerals	3.13	3.17	3.29	3.48	4.39	4.40	4.51	..
Transport equipment	1.77	1.29	1.51	1.94	1.75	2.53	2.54	..
Machinery	5.78	5.41	3.45	3.53	3.63	4.25	4.40	..
Mining and quarrying	3.28	3.19	1.46	1.31	2.15	2.44	2.39	..
Food and tobacco	2.24	2.86	3.76	4.44	5.09	5.63	5.74	..
Paper, pulp and printing	1.70	1.96	2.67	3.12	3.67	4.29	4.23	..
Wood and wood products	0.87	1.27	1.34	1.58	1.86	1.99	1.97	..
Construction	1.18	1.27	0.55	0.52	0.77	0.78	0.75	..
Textile and leather	2.86	2.14	1.25	1.03	0.57	0.53	0.54	..
Non specified/other	0.09	0.11	1.83	2.64	2.81	4.07	4.26	..
Transport	3.73	5.48	4.65	3.99	3.34	3.16	3.01	..
Rail Transport	3.73	5.32	4.31	3.55	2.96	2.85	2.70	..
Pipeline Transport	-	0.14	0.32	0.42	0.35	0.29	0.29	..
Road	-	0.03	0.02	0.02	0.02	0.02	0.02	..
Transport Non Specified	-	-	-	-	-	-	-	..
Commercial & publ. serv.	6.13	20.22	21.03	25.25	28.62	28.44	28.08	..
Residential	7.49	19.29	27.76	33.36	43.67	43.13	45.21	..
Agriculture	2.59	8.50	4.75	1.50	1.62	1.54	1.50	..
Fishing	-	-	-	0.01	-	0.00	0.00	..
Sector non specified	1.87	-	-	-	-	-	-	..

1. Electricity generation from main activity producer power plants and autoproducers .

2. Energy industry consumption = electricity consumed by transformation industries for heating, traction and lighting purposes;

excludes own use by power plant and electricity used for heat pumps, electric boilers and pumped storage.

Poland

Table 3b. Summary heat production and consumption¹ (TJ)

	1974	1990	2000	2005	2010	2013	2014	2015e
Gross production	633545	739569	340684	336291	335834	302342	276887	278571
- Own use by power plant	-	8329	6493	6473	6638	8795	8733	-
Net production	633545	731240	334191	329818	329196	293547	268154	-
- Used for electricity production	-	-	-	1789	624	925	1240	1338
+ Imports	-	-	-	-	-	-	-	-
- Exports	-	-	-	-	-	-	-	-
Heat energy supplied	633545	731240	334191	328029	328572	292622	266914	..
- Transmission & distr. losses	-	-	-	27500	30200	24100	21600	..
- Statistical difference	-	-	-	-	-	-	-	..
Total consumption	633545	731240	334191	300529	298372	268522	245314	..
Energy industry consumption²	78403	79642	45879	22764	24266	19248	17273	..
Coal Mines	24916	20733	6703	5950	5656	4761	3768	..
Oil + Gas Extraction	149	158	2	6	67	48	25	..
Patent Fuel Plants	791	69	-	-	-	-	19	..
Coke Ovens	14800	14921	9221	992	529	511	800	..
BKB plants	586	330	70	-	-	-	-	..
Gas Works	5245	1357	21	9	47	17	13	..
Blast Furnaces	-	-	-	-	-	-	-	..
Oil Refineries	28419	12358	9789	1673	548	1518	1530	..
Nuclear Industry	-	-	-	-	-	-	-	..
Coal Liquefaction Plants	-	-	-	-	-	-	-	..
LNG/Regasification Plants	-	-	-	-	-	-	-	..
Energy - Non Specified	3497	29716	20073	14134	17419	12393	11118	..
Final consumption	555142	651598	288312	277765	274106	249274	228041	..
Industry	356678	361747	60720	47556	28331	26225	23704	..
Iron and steel	29738	31926	6499	1140	1879	1675	1587	..
Chem. and petrochemical	91553	101549	31781	22747	5416	3463	3397	..
Non-ferrous metals	4539	3263	737	2067	1392	1580	1337	..
Non-metallic minerals	13559	11037	1793	1110	1331	1041	1055	..
Transport equipment	14629	13480	3299	3945	3059	2281	1896	..
Machinery	32585	32334	4101	4519	4206	3183	2493	..
Mining and quarrying	34944	39661	2828	2575	2523	2538	2457	..
Food and tobacco	55388	48503	2995	2568	2333	2403	2119	..
Paper, pulp and printing	26775	30177	2253	2576	3280	3445	2701	..
Wood and wood products	12371	9870	259	186	383	2365	2441	..
Construction	12902	12997	576	642	613	538	507	..
Textile and leather	26304	25577	2393	1724	493	529	550	..
Non specified/other	1391	1373	1206	1757	1423	1184	1164	..
Transport	-	-	-	-	-	-	-	..
Commercial & publ. serv.	25065	33100	21592	39359	49675	46049	40437	..
Residential	142033	242736	205000	190000	195000	176000	163000	..
Agriculture	11366	14015	1000	823	1100	1000	900	..
Fishing	-	-	-	27	-	-	-	..
Sector non specified	20000	-	-	-	-	-	-	..

1. Heat generation from main activity producer power plants and autoproducers.

2. Energy industry consumption = electricity consumed by transformation industries for heating, traction and lighting purposes;

excludes own use by power plant and electricity used for heat pumps, electric boilers and pumped storage.

Poland

Table 4a. Gross electricity production by source (TWh)

	1974	1990	2000	2010	2013	2014	2015e	74-00	00-15
Total plants gross production¹	91.60	136.31	145.18	157.66	164.58	159.06	164.83	1.8	0.8
Nuclear	-	-	-	-	-	-	-	-	-
Hydro	2.46	3.31	4.12	3.49	3.00	2.73	2.44	2.0	-3.4
- Of which pumped storage	0.33	1.90	2.01	0.57	0.56	0.55	0.60	7.2	-7.7
Geothermal	-	-	-	-	-	-	-	-	-
Solar	-	-	-	-	0.00	0.01	0.06	-	-
Wind	-	-	0.01	1.66	6.00	7.68	10.82	-	66.9
Combustible fuels	89.15	133.00	141.06	152.42	155.47	148.50	151.37	1.8	0.5
- Coal	..	131.05	137.92	138.38	139.76	131.55	132.93	..	-0.2
- Oil	..	1.57	1.92	2.89	1.78	1.59	2.12	..	0.7
- Natural gas	..	0.13	0.93	4.80	5.27	5.33	6.31	..	13.6
- Biofuels & waste	..	0.26	0.30	6.35	8.66	10.03	10.02	..	26.4
Other ²	-	-	-	0.08	0.11	0.14	0.15	-	-
Of which autoproducers	9.68	8.10	7.24	7.97	8.92	8.88	..	-1.1	..
Nuclear	-	-	-	-	-	-	..	-	..
Hydro	-	0.00	0.00	0.00	0.00	0.00	..	-	..
- Of which pumped storage	-	-	-	-	-	-	..	-	..
Geothermal	-	-	-	-	-	-	..	-	..
Solar	-	-	-	-	0.00	0.01	..	-	..
Wind	-	-	-	-	-	-	..	-	..
Combustible fuels	9.68	8.10	7.23	7.88	8.80	8.73	..	-1.1	..
- Coal	..	6.76	5.64	3.88	4.06	4.01
- Oil	..	0.98	1.25	2.27	1.23	1.13
- Natural gas	..	0.12	0.11	0.38	1.54	1.45
- Biofuels & waste	..	0.25	0.23	1.35	1.97	2.13
Other ²	-	-	-	0.08	0.11	0.14	..	-	..

Table 4b. Gross heat production by source (PJ)

	1974	1990	2000	2010	2013	2014	2015e	74-00	00-15
Total plants heat generation³	633.55	739.57	340.68	335.83	302.34	276.89	278.57	-2.4	-1.3
Nuclear	-	-	-	-	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-	-	-
Combustible fuels	633.55	739.57	340.68	335.12	301.32	275.60	277.20	-2.4	-1.4
- Coal	..	668.48	319.70	296.76	263.42	241.17	240.27	..	-1.9
- Oil	..	42.50	7.94	6.55	3.39	3.30	3.55	..	-5.2
- Natural gas	..	14.61	10.99	20.83	18.13	16.52	19.30	..	3.8
- Biofuels & waste	..	13.98	2.06	10.99	16.38	14.61	14.09	..	13.7
Chemical processes	-	-	-	0.60	0.89	1.21	1.30	-	-
Heat pumps	-	-	-	0.00	0.01	0.00	0.00	-	-
Electric boilers	-	-	-	-	-	-	-	-	-
Other sources	-	-	-	0.12	0.13	0.08	0.07	-	-
Of which Autoproducers	393.98	407.28	45.36	21.15	20.25	19.11	..	-8.0	..
Nuclear	-	-	-	-	-	-	..	-	..
Geothermal	-	-	-	-	-	-	..	-	..
Combustible fuels	393.98	407.28	45.36	20.43	19.23	17.82	..	-8.0	..
- Coal	..	344.47	39.21	12.70	10.88	10.46
- Oil	..	34.63	2.84	4.58	2.33	2.32
- Natural gas	..	14.26	2.44	1.87	3.46	3.07
- Biofuels & waste	..	13.93	0.87	1.29	2.56	1.98
Chemical processes	-	-	-	0.60	0.89	1.21	..	-	..
Heat pumps	-	-	-	0.00	0.01	0.00	..	-	..
Electric boilers	-	-	-	-	-	-	..	-	..
Other sources	-	-	-	0.12	0.13	0.08	..	-	..

1. Electricity generated from main activity producer power plants and autoproducers.

2. Includes wave, ocean and other sources (e.g. fuel cells, electricity from chemical heat).

3. Total heat generation = gross production of heat from main activity producer + heat sold in autoproducers.

Poland**Table 5. Net electricity production by autoproducers (GWh)**

	1974	1990	2000	2010	2012	2013	2014	74-00	00-14
Total	8094	6070	6586	7488	7950	8378	8383	-0.8	1.7
Total energy	-	1795	2107	2831	2789	2918	2794	-	2.0
Coal mines	-	-	97	15	52	72	83	-	-1.1
Oil and gas extraction	-	-	-	15	33	67	99	-	-
Patent fuel plants	-	-	412	639	630	629	654	-	3.4
Coke ovens	-	-	-	-	-	-	-	-	-
Gas works	-	-	-	4	-	4	1	-	-
BKB	-	-	1393	2141	1979	1987	1724	-	1.5
Oil refineries	-	-	-	-	-	-	-	-	-
Energy non specified/other	-	-	-	-	-	-	-	-	-
Total industry	-	4275	4448	4216	4595	4823	4902	-	0.7
Iron and steel	-	814	917	343	369	372	350	-	-6.6
Chemical and petrochemical	-	2105	1849	1911	1898	1900	1935	-	0.3
Non-ferrous metals	-	188	303	-	-	-	-	-	-
Non-metallic minerals	-	2	4	-	-	5	9	-	6.0
Transport equipment	-	66	59	-	-	-	-	-	-
Machinery	-	54	17	3	2	2	1	-	-18.3
Mining and quarrying	-	24	7	-	-	1	87	-	19.7
Food and tobacco	-	436	413	326	397	424	428	-	0.3
Pulp and printing	-	465	747	1549	1854	2015	1978	-	7.2
Wood and wood products	-	10	10	9	13	31	11	-	0.7
Construction	-	-	-	-	3	-	1	-	-
Textile and leather	-	111	41	-	-	-	-	-	-
Non specified/other industries	-	-	81	75	59	73	102	-	1.7
Total transport	-	-	-	-	-	-	-	-	-
Rail	-	-	-	-	-	-	-	-	-
Pipeline	-	-	-	-	-	-	-	-	-
Transport non specified	-	-	-	-	-	-	-	-	-
Other	8094	-	31	441	566	637	687	-19.3	24.8
Commerce and pub. services	-	-	31	441	501	576	612	-	23.7
Residential	-	-	-	-	-	-	-	-	-
Agriculture	-	-	-	-	65	61	75	-	-
Fishing	-	-	-	-	-	-	-	-	-
Sector non specified	8094	-	-	-	-	-	-	-	-

Notes: Data reported in this table prior to 1990 may refer to combustible fuels only.

Poland

Table 6a. Electricity production from combustible fuels in electricity plants¹

	1990	2000	2005	2010	2012	2013	2014	90-00	00-14
Steam coal									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
Lignite									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
Coal manufactured gases²									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
Other coal products³									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
Oil and petroleum products									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
Natural gas²									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
Solid biofuels									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
Industrial waste									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
Municipal waste									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
Biogases and liquid biofuels									
Fuel input (TJ)	-	396	-	-	-	-	-	-	-
Electricity production (GWh)	-	31	-	-	-	-	-	-	-
Total combustible fuels									
Electricity production (GWh)	-	31	-	-	-	-	-	-	-

1. Excludes CHP plants.

2. Coal manufactured gases and natural gas are expressed on a gross calorific value basis.

3. Includes Coking coal as well as peat and peat products, patent fuels, BKB and shale oil

Poland**Table 6b. Electricity and heat produced for sale from combustible fuels
in combined heat and power plants (CHP plants)**

	1990	2000	2005	2010	2012	2013	2014	90-00	00-14
Steam coal									
Fuel input (1000 t)	59361	44514	45179	44167	40275	40647	37577	-2.8	-1.2
Fuel input (TJ)	1211894	962652	968652	948903	861497	870084	806954	-2.3	-1.3
Electricity production (GWh)	75774	82419	86985	87695	80352	81414	75976	0.8	-0.6
CHP Heat production (TJ)	358447	174179	190037	163100	145506	149769	136857	-7.0	-1.7
Lignite									
Fuel input (1000 t)	66565	59066	61042	55697	63287	65033	63175	-1.2	0.5
Fuel input (TJ)	552146	505127	533604	477036	526782	539268	513074	-0.9	0.1
Electricity production (GWh)	54587	53469	54758	48651	54054	56150	53365	-0.2	-0.0
CHP Heat production (TJ)	5442	8575	5853	5990	5482	5515	5058	4.7	-3.7
Coal manufactured gases¹									
Fuel input (TJ)	25805	24419	21688	35195	33839	36386	38319	-0.6	3.3
Electricity production (GWh)	684	2033	1364	1869	1843	2040	2031	11.5	-0.0
CHP Heat production (TJ)	16178	5907	5250	9774	9336	8235	8162	-9.6	2.3
Other coal products²									
Fuel input (1000 t)	-	-	20	42	43	33	40	-	-
Fuel input (TJ)	-	-	585	1244	1263	964	1192	-	-
Electricity production (GWh)	-	-	138	168	167	154	179	-	-
CHP Heat production (TJ)	-	-	-	20	17	13	-	-	-
Petroleum products									
Fuel input (1000 t)	1288	451	583	576	409	364	318	-10.0	-2.5
Fuel input (TJ)	51947	18126	23583	23548	16671	14939	13031	-10.0	-2.3
Electricity production (GWh)	1570	1916	2757	2892	2045	1782	1594	2.0	-1.3
CHP Heat production (TJ)	31434	2856	5003	5285	3178	2779	2708	-21.3	-0.4
Natural gas¹									
Fuel input (TJ)	3295	13914	49776	45252	57640	47363	47736	15.5	9.2
Electricity production (GWh)	125	928	5165	4798	6260	5270	5328	22.2	13.3
CHP Heat production (TJ)	1607	3696	11450	11553	12738	9420	9169	8.7	6.7
Solid Biofuels									
Fuel input (TJ)	10408	2926	15563	63236	103900	85699	95277	-11.9	28.2
Electricity production (GWh)	55	190	1400	5905	9529	7932	9161	13.2	31.9
CHP Heat production (TJ)	8109	1347	1226	9052	17493	14008	12579	-16.4	17.3
Industrial waste									
Fuel input (TJ)	5172	878	533	354	292	292	377	-16.3	-5.9
Electricity production (GWh)	203	77	41	35	21	23	37	-9.2	-5.1
CHP Heat production (TJ)	2902	220	207	17	135	85	89	-22.7	-6.3
Municipal waste									
Fuel input (TJ)	-	-	-	367	371	337	237	-	-
Electricity production (GWh)	-	-	-	10	9	11	13	-	-
CHP Heat production (TJ)	-	-	-	251	217	242	97	-	-
Biogases and liquid biofuels									
Fuel input (TJ)	-	-	560	2772	4204	4878	5718	-	-
Electricity production (GWh)	-	-	111	399	565	691	816	-	-
CHP Heat production (TJ)	-	-	42	95	201	365	287	-	-
Total combustible fuels									
Electricity production (GWh)	132998	141032	152719	152422	154845	155467	148500	0.6	0.4
CHP Heat production (TJ)	424119	196780	219068	205137	194303	190431	175006	-7.4	-0.8

1. Coal manufactured gases and natural gas are expressed on a gross calorific value basis.

2. Includes Coking coal as well as peat and peat products, patent fuels, BKB and shale oil

Poland**Table 6c. Heat produced for sale from combustible fuels in heat plants¹**

	1990	2000	2005	2010	2012	2013	2014	90-00	00-14
Steam coal									
Fuel input (1000 t)	18193	7113	5766	6303	5486	5276	4764	-9.0	-2.8
Fuel input (TJ)	385341	154013	130841	142156	123378	119910	108302	-8.8	-2.5
Heat production (TJ)	273189	126833	101626	115385	100530	97742	88565	-7.4	-2.5
Lignite									
Fuel input (1000 t)	350	39	33	36	46	36	31	-19.7	-1.6
Fuel input (TJ)	3305	439	385	404	523	407	350	-18.3	-1.6
Heat production (TJ)	2315	349	300	329	427	333	285	-17.2	-1.4
Coal manufactured gases²									
Fuel input (TJ)	4675	1281	410	509	461	502	453	-12.1	-7.2
Heat production (TJ)	3098	990	262	345	338	369	334	-10.8	-7.5
Other coal products³									
Fuel input (1000 t)	536	121	95	84	100	65	87	-13.8	-2.3
Fuel input (TJ)	13690	3349	2598	2460	2936	1900	2516	-13.1	-2.0
Heat production (TJ)	9815	2865	1843	1812	2018	1441	1913	-11.6	-2.8
Petroleum products									
Fuel input (1000 t)	380	154	52	39	33	18	18	-8.6	-14.2
Fuel input (TJ)	15299	6344	2181	1573	1310	752	737	-8.4	-14.3
Heat production (TJ)	11065	5081	1674	1264	1059	611	595	-7.5	-14.2
Natural gas²									
Fuel input (TJ)	20751	10115	13667	12845	11208	11965	10061	-6.9	-0.0
Heat production (TJ)	12999	7289	9418	9272	8044	8708	7347	-5.6	0.1
Solid biofuels									
Fuel input (TJ)	4163	535	1665	1878	1685	1995	1712	-18.5	8.7
Heat production (TJ)	2895	455	1277	1496	1347	1603	1381	-16.9	8.3
Industrial waste									
Fuel input (TJ)	93	5	8	88	128	89	93	-25.3	23.2
Heat production (TJ)	64	5	7	65	91	68	71	-22.5	20.9
Municipal waste									
Fuel input (TJ)	-	-	-	-	-	-	122	-	-
Heat production (TJ)	-	-	-	-	-	-	94	-	-
Biogases and liquid biofuels									
Fuel input (TJ)	14	47	1	15	15	15	14	12.9	-8.3
Heat production (TJ)	10	37	1	12	11	12	11	14.0	-8.3
Total combustible fuels									
Heat production (TJ)	315450	143904	116408	129980	113865	110887	100596	-7.5	-2.5

1. Excludes CHP plants

2. Coal manufactured gases and natural gas are expressed on a gross calorific value basis.

3. Includes Coking coal as well as peat and peat products, patent fuels, BKB and shale oil

Poland**Table 7. Net maximum electricity generating capacity on 31 December (GW)**

	1974	1990	2000	2005	2010	2012	2013	2014
Total capacity¹	18.62	27.88	30.56	32.26	33.36	35.28	35.82	35.99
Nuclear	-	-	-	-	-	-	-	-
Hydro	0.79	1.89	2.18	2.32	2.34	2.35	2.36	2.36
<i>of which: pumped storage</i>	0.15	1.42	1.67	1.78	1.78	1.78	1.78	1.78
Geothermal	-	-	-	-	-	-	-	-
Solar PV	-	-	-	-	-	-	-	0.03
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	-	-	0.12	1.11	2.56	3.43	3.84
Other (e.g. fuel cells)	-	-	-	0.04	-	-	-	-
Combustible fuels	17.83	25.99	28.37	29.78	29.91	30.37	30.03	29.76
<i>of which⁽²⁾:</i>								
<i>Single-fired:</i>								
Coal and Coal products	17.83	25.99	27.80	28.40	28.40	28.40	27.88	27.48
Liquid fuels	-	-	0.35	0.49	0.49	0.45	0.40	0.40
Natural gas	-	-	0.21	0.82	0.87	0.92	1.00	1.06
Biofuels & waste	-	-	0.01	0.06	0.14	0.59	0.74	0.82
<i>Multi-fired:</i>								
Solid / liquid	-	-	-	-	-	-	-	-
Solid / natural gas	-	-	-	-	-	-	-	-
Liquid / natural gas	-	-	-	0.01	0.01	0.01	0.01	0.01
Solid / liquid / gas	-	-	-	-	-	-	-	-
<i>Type of generation</i>								
Steam	17.83	25.99	28.16	28.96	28.96	29.31	28.90	28.53
Internal combustion	-	-	0.01	0.03	0.12	0.21	0.25	0.30
Gas turbine	-	-	0.01	0.09	0.06	0.06	0.06	0.08
Combined cycle	-	-	0.19	0.71	0.77	0.77	0.81	0.85
Other	-	-	-	-	-	-	-	-
<i>Peak load</i>	15.03	24.27	24.01	24.96	26.36	25.51	24.96	26.08
Of which Autoproducers	2.45	2.36	1.89	2.05	1.80	1.77	1.81	1.85
Nuclear	-	-	-	-	-	-	-	-
Hydro	-	-	-	-	-	-	-	-
<i>of which: pumped storage</i>	-	-	-	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-	-
Solar PV	-	-	-	-	-	-	-	0.03
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	-	-	-	-	-	-	-
Other (e.g. fuel cells)	-	-	-	0.04	-	-	-	-
Combustible fuels	2.45	2.36	1.89	2.02	1.79	1.77	1.80	1.82

1. Sum of available capacity figures

2. Breakdown of electrical capacity by type of fuel are shown in the individual country chapters.

Poland**Table 8. Capacity factors (%)**

	1974	1990	2000	2005	2010	2012	2013	2014
Total plants¹	56.2	55.8	54.2	55.5	54.0	52.5	52.5	50.5
Nuclear	-	-	-	-	-	-	-	-
Hydro	35.3	20.0	21.5	18.6	17.0	12.0	14.5	13.2
<i>of which: pumped storage</i>	25.3	18.0	16.8	12.8	4.6	3.5	4.5	4.5
Geothermal	-	-	-	-	-	-	-	-
Solar PV	-	-	-	-	-	11.4	5.7	3.0
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	-	14.3	12.7	17.1	21.1	20.0	22.8
Other (e.g. fuel cells)	-	-	-	74.5	40.0	45.7	45.7	45.7
Combustible fuels	57.1	58.4	56.8	58.6	58.2	58.2	59.1	57.0
Of which autoproducers	45.1	39.2	43.8	45.2	50.6	54.5	56.4	54.9
Nuclear	-	-	-	-	-	-	-	-
Hydro	-	22.8	34.3	22.8	22.8	22.8	34.3	34.3
<i>of which: pumped storage</i>	-	-	-	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-	-
Solar PV	-	-	-	-	-	11.4	5.7	3.0
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	-	-	-	-	-	-	-
Other (e.g. fuel cells)	-	-	-	74.5	40.0	45.7	45.7	45.7
Combustible fuels	45.1	39.2	43.8	44.3	50.2	54.1	55.8	54.8

1. The capacity factor is defined as: the annual gross electricity generation (in GWh) divided by the net capacity (in GW) times 365 (days/year) times 24 (hours/day)

Poland**Table 9a. Electricity imports by origin (GWh)**

	1974	1990	2000	2005	2010	2012	2013	2014
Total imports	1734	10437	3290	5002	6310	9803	7801	13508
Total from OECD	-	-	2498	3145	6310	8798	6772	12822
Austria	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-
Canada	-	-	-	-	-	-	-	-
Czech Republic	-	-	64	63	137	75	182	520
Denmark	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-
Germany	-	-	2006	2265	5331	6048	5452	9204
Greece	-	-	-	-	-	-	-	-
Hungary	-	-	-	-	-	-	-	-
Ireland	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-
Luxembourg	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-
Poland	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-
Slovak Republic	-	-	3	-	82	2	122	6
Slovenia	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-
Sweden	-	-	425	817	760	2673	1016	3092
Switzerland	-	-	-	-	-	-	-	-
Turkey	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-
United States	-	-	-	-	-	-	-	-
Total from non-OECD	-	-	792	1857	-	1005	1029	686
Albania	-	-	-	-	-	-	-	-
Azerbaijan	-	-	-	-	-	-	-	-
Belarus	-	-	163	874	-	-	-	-
Bulgaria	-	-	-	-	-	-	-	-
Croatia	-	-	-	-	-	-	-	-
F.Y.R. of Macedonia	-	-	-	-	-	-	-	-
Georgia	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-
Romania	-	-	-	-	-	-	-	-
Russian Federation	-	-	-	-	-	-	-	-
Serbia	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-
Turkmenistan	-	-	-	-	-	-	-	-
Ukraine	-	-	629	983	-	1005	1029	686
Non-specified/others	1734	10437	-	-	-	-	-	-

Poland**Table 9b. Electricity exports by destination (GWh)**

	1974	1990	2000	2005	2010	2012	2013	2014
Total exports	4491	11478	9663	16188	7664	12643	12322	11342
Total to OECD	-	-	9663	16188	7664	12643	12322	11342
Austria	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-
Canada	-	-	-	-	-	-	-	-
Czech Republic	-	-	7219	11167	5504	8844	7846	7683
Denmark	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-
Germany	-	-	688	1046	167	172	540	51
Greece	-	-	-	-	-	-	-	-
Hungary	-	-	-	-	-	-	-	-
Ireland	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-
Luxembourg	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-
Poland	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-
Slovak Republic	-	-	1702	2792	1499	3498	3172	3500
Slovenia	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-
Sweden	-	-	54	1183	494	129	764	108
Switzerland	-	-	-	-	-	-	-	-
Turkey	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-
United States	-	-	-	-	-	-	-	-
Total to non-OECD	-	-	-	-	-	-	-	-
Albania	-	-	-	-	-	-	-	-
Azerbaijan	-	-	-	-	-	-	-	-
Belarus	-	-	-	-	-	-	-	-
Bulgaria	-	-	-	-	-	-	-	-
Croatia	-	-	-	-	-	-	-	-
F.Y.R. of Macedonia	-	-	-	-	-	-	-	-
Georgia	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-
Romania	-	-	-	-	-	-	-	-
Russian Federation	-	-	-	-	-	-	-	-
Serbia	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-
Turkmenistan	-	-	-	-	-	-	-	-
Ukraine	-	-	-	-	-	-	-	-
Non-specified/others	4491	11478	-	-	-	-	-	-

Poland**Table 10a. Share of electricity in total final consumption (%)**

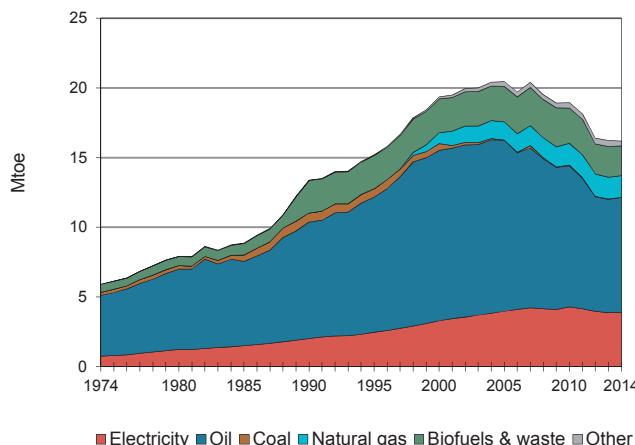
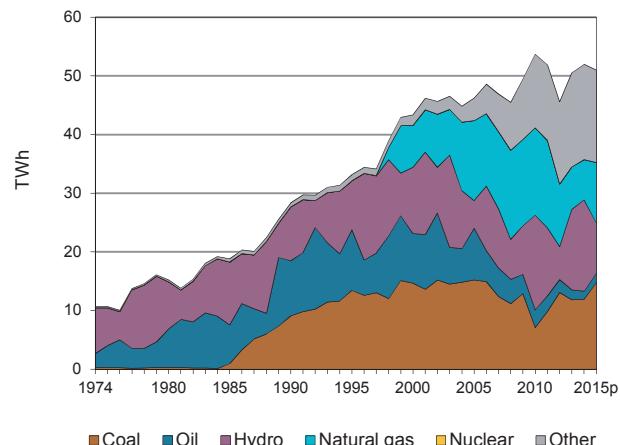
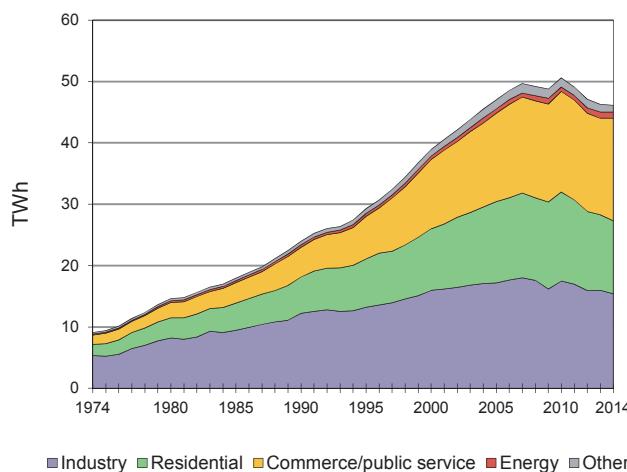
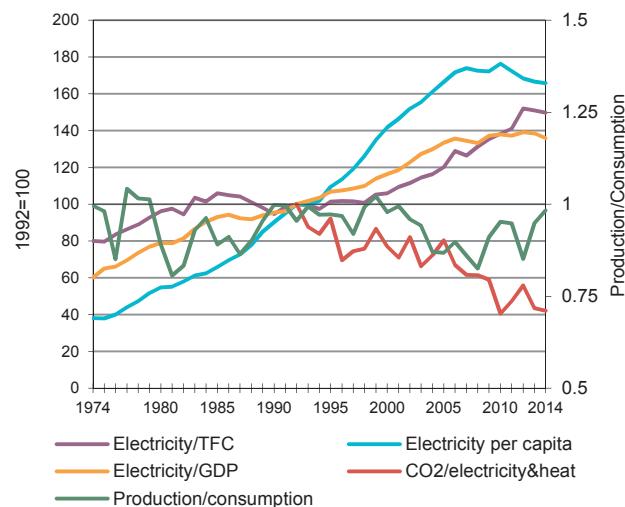
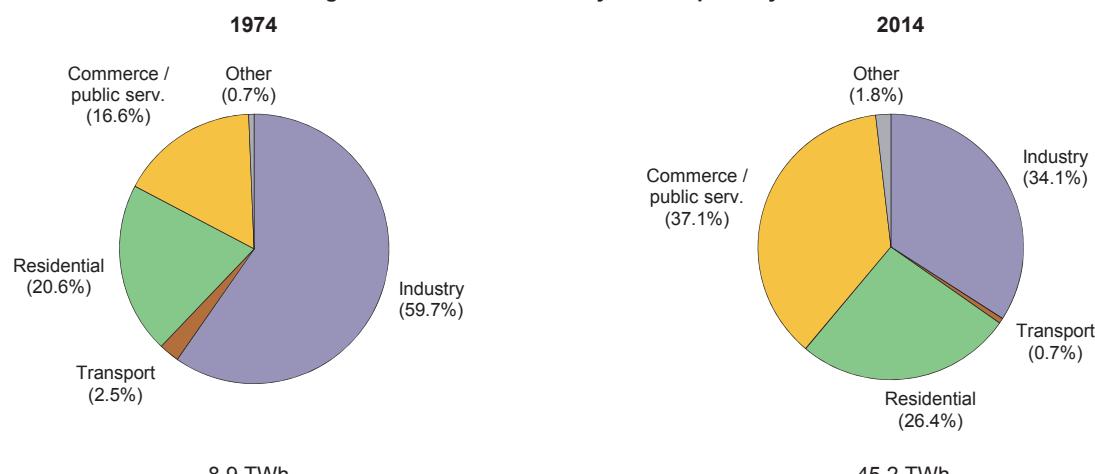
	1974	1990	2000	2005	2010	2012	2013	2014
Share of total final consumption	8.6	13.5	14.7	14.6	14.6	15.5	16.0	16.6
Industry	13.2	16.0	20.3	24.3	26.6	28.3	28.9	29.2
Iron and steel	9.0	13.3	17.9	21.1	32.0	31.1	30.6	29.9
Chem. and petrochemical	21.5	21.4	18.8	25.6	23.4	27.2	26.9	27.4
Non-ferrous metals	21.1	33.2	50.3	55.1	40.9	41.5	41.8	42.6
Non-metallic minerals	5.2	7.9	10.9	11.9	13.9	14.5	14.9	14.8
Transport equipment	18.8	18.0	31.3	39.3	42.0	49.2	53.6	56.1
Machinery	20.3	22.5	33.4	39.5	44.5	49.4	50.1	52.8
Mining and quarrying	18.3	18.7	27.0	41.9	52.0	52.1	55.2	57.1
Food and tobacco	7.6	10.4	16.3	19.2	24.7	25.2	26.4	26.8
Paper, pulp and printing	17.0	17.5	20.5	22.4	24.8	25.4	23.5	23.4
Wood and wood products	12.4	17.1	19.2	19.5	21.0	21.0	20.0	20.8
Construction	10.0	13.9	24.6	22.2	27.6	32.1	36.9	39.7
Textile and leather	22.6	18.8	26.5	32.4	37.7	40.4	39.7	38.1
Non specified/other	11.1	15.2	30.5	41.2	47.7	51.4	52.7	51.2
Transport	3.5	6.6	4.2	2.8	1.7	1.7	1.8	1.7
Rail Transport	7.3	43.7	68.8	65.5	69.3	69.4	70.9	71.9
Pipeline Transport	-	100.0	31.5	13.2	12.0	9.3	6.2	6.4
Road	-	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Transport Non Specified	-	-	-	-	-	-	-	-
Other sectors	6.6	15.2	17.2	16.9	18.4	19.5	19.6	21.3
Commercial & publ. serv.	11.0	33.5	48.1	42.7	42.6	45.8	46.0	49.9
Residential	3.6	9.8	10.5	11.2	11.2	11.7	12.0	12.8
Agriculture	10.2	21.6	8.9	2.9	3.8	3.7	3.7	3.8
Fishing	-	-	-	10.9	-	-	100.0	100.0
Sector non specified	23.4	-	-	-	-	-	-	-

Table 10b. Share of heat in total final consumption (%)

	1974	1990	2000	2005	2010	2012	2013	2014
Share of total final consumption	21.0	25.3	11.9	10.7	9.4	8.8	8.9	8.3
Industry	31.6	37.6	8.5	7.8	5.0	4.6	4.4	4.0
Iron and steel	12.2	15.8	4.5	1.1	2.8	2.5	2.3	2.2
Chem. and petrochemical	53.6	57.7	19.6	19.5	4.7	4.2	2.9	3.0
Non-ferrous metals	12.4	13.9	2.8	9.1	9.2	8.7	9.3	7.6
Non-metallic minerals	6.2	7.6	1.7	1.1	1.2	1.2	1.0	1.0
Transport equipment	43.2	52.4	18.9	22.2	20.4	17.8	13.4	11.6
Machinery	31.8	37.4	11.0	14.0	14.3	11.6	10.4	8.3
Mining and quarrying	54.1	64.6	14.5	22.8	16.9	18.5	16.0	16.3
Food and tobacco	52.3	48.9	3.6	3.1	3.1	2.8	3.1	2.7
Paper, pulp and printing	74.2	74.5	4.8	5.1	6.2	3.1	5.2	4.2
Wood and wood products	49.1	37.0	1.0	0.6	1.2	6.8	6.6	7.2
Construction	30.4	39.5	7.1	7.6	6.1	7.3	7.0	7.4
Textile and leather	57.6	62.4	14.1	15.1	9.1	13.0	10.9	10.8
Non specified/other	46.2	52.1	5.6	7.6	6.7	5.0	4.3	3.9
Transport	-	-	-	-	-	-	-	-
Other sectors	20.1	25.6	20.3	18.0	17.0	16.3	16.6	16.2
Commercial & publ. serv.	10.2	16.0	10.4	14.0	13.5	12.3	13.6	12.4
Residential	22.9	32.5	28.5	23.3	21.2	20.7	20.6	20.6
Agriculture	12.5	9.9	0.5	0.5	0.7	0.7	0.7	0.6
Fishing	-	-	-	16.4	-	-	-	-
Sector non specified	69.5	-	-	-	-	-	-	-

Source: IEA/OECD World Energy Balances.

Portugal

Figure 1. Total final consumption by fuel**Figure 2. Electricity generation by fuel****Figure 3. Electricity consumption by sector****Figure 4. Electricity indicators****Figure 5. Total final electricity consumption by sector**

Portugal

Table 1. Energy consumption, GDP and population

	1974	1990	2000	2010	2013	2014	2015p	74-00	00-15
TPES (Mtoe)	7.22	16.78	24.59	23.50	21.52	21.16	22.08	4.8	-0.7
GDP (billion 2005 USD)	98.62	166.59	221.37	238.30	221.99	224.00	227.27	3.2	0.2
TPES/GDP ¹	0.07	0.10	0.11	0.10	0.10	0.09	0.10	1.6	-0.9
Population (millions)	8.84	10.00	10.29	10.57	10.46	10.40	10.41	0.6	0.1
TPES/population ²	0.82	1.68	2.39	2.22	2.06	2.03	2.12	4.2	-0.8
TPES/GDP (2005 = 100)	64	88	97	86	85	83	85	1.6	-0.9
Ele.TFC/GDP(2005=100) ³	45	71	86	104	102	101	..	2.5	..
Ele.TFC/population ⁴	1012	2356	3730	4720	4329	4347	..	5.1	..
Elec. generated (TWh) ⁵	10.69	28.36	43.37	53.69	50.53	51.96	51.01	5.5	1.1

Source: IEA/OECD *World Energy Balances* and OECD *Main Economic Indicators*.

Table 2. Total primary energy supply (TPES) by source

	1974	1990	2000	2010	2013	2014	2015p	74-00	00-15
TPES (Mtoe)	7.22	16.78	24.59	23.50	21.52	21.16	22.08	4.8	-0.7
Coal	0.41	2.76	3.81	1.66	2.65	2.67	3.25	8.9	-1.0
Oil	5.50	10.74	14.83	11.51	9.38	9.23	9.68	3.9	-2.8
Natural gas	-	-	2.03	4.49	3.75	3.47	4.04	-	4.7
Biofuels & waste	0.63	2.48	2.77	3.19	2.99	3.01	2.84	5.9	0.2
Nuclear	-	-	-	-	-	-	-	-	-
Geothermal	-	0.00	0.07	0.18	0.18	0.19	0.18	-	6.4
Solar, wind, tide ⁶	-	0.01	0.03	0.86	1.15	1.17	1.15	-	26.7
Hydro	0.67	0.79	0.97	1.39	1.18	1.34	0.74	1.4	-1.8
Net electricity imports ⁷	0.00	0.00	0.08	0.23	0.24	0.08	0.19	12.5	6.1
Heat	-	-	-	0.00	0.00	0.00	0.00	-	-

Source: IEA/OECD *World Energy Balances*.

1. In units of toe/2005 thousand US dollars.
2. In units of toe/per capita.
3. Ele.TFC = electricity total final consumption.
4. In units of kWh/per capita.
5. Electricity generated = gross production - amount of electricity produced in pumped storage plants.
6. Includes wave, ocean and other (e.g. fuel cells).
7. Net Imports = total imports - total exports

Portugal

Table 3a. Summary electricity production and consumption¹ (TWh)

	1974	1990	2000	2005	2010	2013	2014	2015e
Gross production	10.75	28.50	43.76	46.58	54.09	51.67	52.80	52.16
- Own use by power plant	0.27	1.22	1.55	1.59	1.31	1.26	1.28	-
Net production	10.48	27.28	42.22	44.98	52.78	50.41	51.53	-
- Used for heat pumps	-	-	-	-	-	-	-	-
- Used for electric boilers	-	-	-	-	-	-	-	-
- Used for pumped storage	0.09	0.21	0.56	0.57	0.51	1.46	1.08	1.47
+ Imports	0.34	1.73	4.70	9.63	5.81	8.10	7.25	8.08
- Exports	0.30	1.70	3.77	2.80	3.19	5.32	6.34	5.81
Electrical energy supplied	10.44	27.11	42.59	51.24	54.89	51.73	51.35	..
- Transmission & distr. losses	1.33	3.16	3.65	4.21	4.28	5.46	5.21	..
- Statistical difference	-	-	-	-	-	-	-	..
Total consumption	9.11	23.95	38.94	47.03	50.61	46.27	46.14	..
Energy industry consumption²	0.17	0.41	0.57	0.71	0.73	1.02	0.94	..
Coal Mines	0.01	0.01	0.00	0.00	0.00	0.00	0.00	..
Oil + Gas Extraction	-	-	-	-	-	0.00	0.00	..
Patent Fuel Plants	-	-	-	-	-	-	-	..
Coke Ovens	-	0.00	0.00	-	-	-	-	..
BKB plants	-	-	-	-	-	-	-	..
Gas Works	0.02	0.03	0.03	-	-	-	-	..
Blast Furnaces	-	-	-	-	-	-	-	..
Oil Refineries	0.14	0.37	0.46	0.56	0.53	0.83	0.76	..
Nuclear Industry	-	-	-	-	-	-	-	..
Coal Liquefaction Plants	-	-	-	-	-	-	-	..
LNG/Regasification Plants	-	-	-	-	-	-	-	..
Energy - Non Specified	-	-	0.07	0.14	0.19	0.18	0.18	..
Final consumption	8.95	23.54	38.37	46.32	49.89	45.26	45.20	..
Industry	5.34	12.22	15.95	17.17	17.47	15.99	15.40	..
Iron and steel	0.29	0.61	0.82	1.28	1.10	1.38	1.40	..
Chem. and petrochemical	1.22	2.00	2.31	2.56	2.49	2.29	2.12	..
Non-ferrous metals	0.23	0.15	0.11	0.12	0.14	0.12	0.12	..
Non-metallic minerals	0.74	1.76	2.25	2.34	2.19	1.80	1.93	..
Transport equipment	0.12	0.24	0.49	0.48	0.44	0.35	0.36	..
Machinery	0.34	0.88	1.02	1.20	1.35	1.27	1.31	..
Mining and quarrying	0.08	0.32	0.42	0.48	0.56	0.59	0.61	..
Food and tobacco	0.42	1.10	1.56	1.70	1.91	1.77	1.86	..
Paper, pulp and printing	0.48	1.47	2.05	2.47	3.06	3.06	3.05	..
Wood and wood products	0.20	0.62	0.92	0.72	0.58	0.51	0.49	..
Construction	0.05	0.21	0.56	0.65	0.61	0.36	0.33	..
Textile and leather	0.91	2.46	2.33	1.79	1.46	1.23	1.33	..
Non specified/other	0.27	0.40	1.11	1.40	1.59	1.27	0.49	..
Transport	0.22	0.31	0.36	0.47	0.48	0.30	0.30	..
Rail Transport	0.22	0.31	0.36	0.47	0.48	0.29	0.30	..
Pipeline Transport	-	-	-	-	-	0.01	0.01	..
Road	-	-	-	-	-	-	-	..
Transport Non Specified	-	-	-	-	-	-	-	..
Commercial & publ. serv.	1.84	5.92	10.06	13.24	14.52	12.31	11.92	..
Residential	1.49	4.83	11.29	14.41	16.40	15.71	16.76	..
Agriculture	0.06	0.27	0.72	0.99	0.97	0.89	0.78	..
Fishing	-	-	-	0.04	0.06	0.06	0.05	..
Sector non specified	-	-	-	-	-	-	-	..

1. Electricity generation from main activity producer power plants and autoproducers .

2. Energy industry consumption = electricity consumed by transformation industries for heating, traction and lighting purposes;

excludes own use by power plant and electricity used for heat pumps, electric boilers and pumped storage.

Portugal

Table 3b. Summary heat production and consumption¹ (TJ)

	1974	1990	2000	2005	2010	2013	2014	2015e
Gross production	-	1188	5626	13712	21111	25569	21422	21050
- Own use by power plant	-	-	-	-	-	-	-	-
Net production	-	1188	5626	13712	21111	25569	21422	-
- Used for electricity production	-	-	-	-	33	46	55	86
+ Imports	-	-	-	-	-	-	-	-
- Exports	-	-	-	-	-	-	-	-
Heat energy supplied	-	1188	5626	13712	21078	25523	21367	..
- Transmission & distr. losses	-	-	-	-	-	-	-	..
- Statistical difference	-	-	-	-	-	-	1	..
Total consumption	-	1188	5626	13712	21078	25523	21366	..
Energy industry consumption²	-	-	-	-	6936	10788	10063	..
Coal Mines	-	-	-	-	-	-	-	..
Oil + Gas Extraction	-	-	-	-	-	-	-	..
Patent Fuel Plants	-	-	-	-	-	-	-	..
Coke Ovens	-	-	-	-	-	-	-	..
BKB plants	-	-	-	-	-	-	-	..
Gas Works	-	-	-	-	-	-	-	..
Blast Furnaces	-	-	-	-	-	-	-	..
Oil Refineries	-	-	-	-	6936	10788	10063	..
Nuclear Industry	-	-	-	-	-	-	-	..
Coal Liquefaction Plants	-	-	-	-	-	-	-	..
LNG/Regasification Plants	-	-	-	-	-	-	-	..
Energy - Non Specified	-	-	-	-	-	-	-	..
Final consumption	-	1188	5626	13712	14142	14735	11303	..
Industry	-	1188	5330	13176	13328	13581	10186	..
Iron and steel	-	-	-	-	-	-	-	..
Chem. and petrochemical	-	1188	2250	4668	4763	4610	1543	..
Non-ferrous metals	-	-	-	-	-	-	-	..
Non-metallic minerals	-	-	110	224	400	359	320	..
Transport equipment	-	-	-	-	-	-	-	..
Machinery	-	-	20	9	5	33	32	..
Mining and quarrying	-	-	-	1016	936	1154	681	..
Food and tobacco	-	-	662	1625	1688	1546	1685	..
Paper, pulp and printing	-	-	697	3375	3503	3770	3912	..
Wood and wood products	-	-	332	380	420	133	140	..
Construction	-	-	20	-	-	-	-	..
Textile and leather	-	-	1239	1879	1613	1570	1469	..
Non specified/other	-	-	-	-	-	406	404	..
Transport	-	-	-	-	-	-	-	..
Commercial & publ. serv.	-	-	72	267	498	867	893	..
Residential	-	-	149	251	298	277	224	..
Agriculture	-	-	75	18	18	10	-	..
Fishing	-	-	-	-	-	-	-	..
Sector non specified	-	-	-	-	-	-	-	..

1. Heat generation from main activity producer power plants and autoproducers.

2. Energy industry consumption = electricity consumed by transformation industries for heating, traction and lighting purposes;

excludes own use by power plant and electricity used for heat pumps, electric boilers and pumped storage.

Portugal

Table 4a. Gross electricity production by source (TWh)

	1974	1990	2000	2010	2013	2014	2015e	74-00	00-15
Total plants gross production¹	10.75	28.50	43.76	54.09	51.67	52.80	52.16	5.5	1.2
Nuclear	-	-	-	-	-	-	-	-	-
Hydro	7.89	9.30	11.72	16.55	14.87	16.41	9.76	1.5	-1.2
- Of which pumped storage	0.06	0.15	0.39	0.40	1.14	0.84	1.15	7.5	7.4
Geothermal	-	0.00	0.08	0.20	0.20	0.21	0.20	-	6.4
Solar	-	0.00	0.00	0.21	0.48	0.63	0.80	-	56.1
Wind	-	0.00	0.17	9.18	12.01	12.11	11.61	-	32.6
Combustible fuels	2.86	19.19	31.80	27.95	24.11	23.44	29.78	9.7	-0.4
- Coal	..	9.10	14.69	7.10	11.84	11.95	14.75	..	0.0
- Oil	..	9.40	8.42	3.01	1.70	1.36	1.57	..	-10.6
- Natural gas	..	-	7.14	14.90	7.23	6.83	10.32	..	2.5
- Biofuels & waste	..	0.69	1.55	2.94	3.35	3.30	3.14	..	4.8
Other ²	-	-	-	0.00	0.00	0.01	0.01	-	-
Of which autoproducers	0.53	1.44	4.79	7.74	9.01	8.44	..	8.9	..
Nuclear	-	-	-	-	-	-	..	-	..
Hydro	0.04	0.03	0.02	0.02	0.02	0.02	..	-2.7	..
- Of which pumped storage	-	-	-	-	-	-	..	-	..
Geothermal	-	-	-	-	-	-	..	-	..
Solar	-	-	-	-	0.21	0.29	..	-	..
Wind	-	-	-	-	-	-	..	-	..
Combustible fuels	0.49	1.41	4.77	7.72	8.78	8.12	..	9.1	..
- Coal	..	0.05	0.09	-	-	-
- Oil	..	0.67	2.70	1.52	0.50	0.30
- Natural gas	..	-	0.44	3.89	5.62	5.22
- Biofuels & waste	..	0.69	1.55	2.31	2.67	2.59
Other ²	-	-	-	0.00	0.00	0.01	..	-	..

Table 4b. Gross heat production by source (PJ)

	1974	1990	2000	2010	2013	2014	2015e	74-00	00-15
Total plants heat generation³	-	1.19	5.63	21.11	25.57	21.42	21.05	-	9.2
Nuclear	-	-	-	-	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-	-	-
Combustible fuels	-	1.19	5.63	21.08	25.52	21.37	20.96	-	9.2
- Coal	..	-	-	-	-	-	-	..	-
- Oil	..	1.19	4.27	2.87	0.81	0.30	0.30	..	-16.3
- Natural gas	..	-	1.35	18.21	24.71	21.07	20.67	..	19.9
- Biofuels & waste	..	-	-	-	-	-	-	..	-
Chemical processes	-	-	-	0.03	0.05	0.06	0.09	-	-
Heat pumps	-	-	-	-	-	-	-	-	-
Electric boilers	-	-	-	-	-	-	-	-	-
Other sources	-	-	-	-	-	-	-	-	-
Of which Autoproducers	-	-	3.50	21.07	25.53	21.39	..	-	..
Nuclear	-	-	-	-	-	-	..	-	..
Geothermal	-	-	-	-	-	-	..	-	..
Combustible fuels	-	-	3.50	21.03	25.49	21.33	..	-	..
- Coal	..	-	-	-	-	-
- Oil	..	-	2.29	2.83	0.78	0.26
- Natural gas	..	-	1.20	18.21	24.71	21.07
- Biofuels & waste	..	-	-	-	-	-
Chemical processes	-	-	-	0.03	0.05	0.06	..	-	..
Heat pumps	-	-	-	-	-	-	..	-	..
Electric boilers	-	-	-	-	-	-	..	-	..
Other sources	-	-	-	-	-	-	..	-	..

1. Electricity generated from main activity producer power plants and autoproducers.

2. Includes wave, ocean and other sources (e.g. fuel cells, electricity from chemical heat).

3. Total heat generation = gross production of heat from main activity producer + heat sold in autoproducers.

Portugal

Table 5. Net electricity production by autoproducers (GWh)

	1974	1990	2000	2010	2012	2013	2014	74-00	00-14
Total	491	1437	4791	7742	8344	9010	8434	9.2	4.1
Total energy	-	326	507	1073	1031	1597	1589	-	8.5
Coal mines	-	-	-	-	-	-	-	-	-
Oil and gas extraction	-	-	-	-	-	-	-	-	-
Patent fuel plants	-	-	-	-	-	-	-	-	-
Coke ovens	-	-	-	-	-	-	-	-	-
Gas works	-	13	9	-	-	-	-	-	-
BKB	-	313	498	1073	1031	1597	1589	-	8.6
Oil refineries	-	-	-	-	-	-	-	-	-
Energy non specified/other	-	-	-	-	-	-	-	-	-
Total industry	483	1098	3661	5692	6101	5992	5431	8.1	2.9
Iron and steel	53	45	93	-	-	-	-	2.2	-
Chemical and petrochemical	139	145	408	702	739	772	353	4.2	-1.0
Non-ferrous metals	5	-	-	-	-	-	-	-	-
Non-metallic minerals	-	-	125	199	219	195	168	-	2.1
Transport equipment	-	-	-	-	-	-	-	-	-
Machinery	3	-	37	12	8	14	16	10.1	-5.8
Mining and quarrying	-	-	-	289	309	289	196	-	-
Food and tobacco	2	19	228	371	350	309	318	20.0	2.4
Pulp and printing	259	852	1588	3061	3566	3669	3673	7.2	6.2
Wood and wood products	-	2	284	220	160	91	93	-	-7.7
Construction	-	-	8	-	-	-	-	-	-
Textile and leather	22	35	890	794	701	608	566	15.3	-3.2
Non specified/other industries	-	-	-	44	49	45	48	-	-
Total transport	-	-	-	-	-	-	-	-	-
Rail	-	-	-	-	-	-	-	-	-
Pipeline	-	-	-	-	-	-	-	-	-
Transport non specified	-	-	-	-	-	-	-	-	-
Other	8	13	623	977	1212	1421	1414	18.2	6.0
Commerce and pub. services	-	12	571	905	1001	1156	1123	-	4.9
Residential	-	-	-	39	177	231	275	-	-
Agriculture	-	1	52	33	34	34	16	-	-8.1
Fishing	-	-	-	-	-	-	-	-	-
Sector non specified	8	-	-	-	-	-	-	-	-

Notes: Data reported in this table prior to 1990 may refer to combustible fuels only.

Portugal

Table 6a. Electricity production from combustible fuels in electricity plants¹

	1990	2000	2005	2010	2012	2013	2014	90-00	00-14
Steam coal									
Fuel input (1000 t)	3259	5171	5436	2610	4836	4412	4508	4.7	-1.0
Fuel input (TJ)	84866	133879	140735	66881	121625	110297	111649	4.7	-1.3
Electricity production (GWh)	9059	14595	15226	7100	13087	11838	11952	4.9	-1.4
Lignite									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
Coal manufactured gases²									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
Other coal products³									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
Oil and petroleum products									
Fuel input (1000 t)	1976	1197	1418	297	254	221	194	-4.9	-12.2
Fuel input (TJ)	79414	48181	57041	11949	10181	8916	7791	-4.9	-12.2
Electricity production (GWh)	8534	5191	6224	1298	1154	1014	867	-4.8	-12.0
Natural gas²									
Fuel input (TJ)	-	49183	83854	80645	43358	12923	13019	-	-9.1
Electricity production (GWh)	-	6620	11643	11022	5866	1650	1633	-	-9.5
Solid biofuels									
Fuel input (TJ)	-	169	1131	9948	12170	11173	12198	-	35.8
Electricity production (GWh)	-	7	65	666	786	736	765	-	39.8
Industrial waste									
Fuel input (TJ)	-	-	112	301	8	-	-	-	-
Electricity production (GWh)	-	-	9	34	1	-	-	-	-
Municipal waste									
Fuel input (TJ)	-	7295	8665	8030	7197	8097	6845	-	-0.5
Electricity production (GWh)	-	514	592	577	490	572	480	-	-0.5
Biogases and liquid biofuels									
Fuel input (TJ)	-	-	335	1146	2216	2585	2915	-	-
Electricity production (GWh)	-	-	27	90	199	239	264	-	-
Total combustible fuels									
Electricity production (GWh)	17593	26927	33786	20787	21583	16049	15961	4.3	-3.7

1. Excludes CHP plants.

2. Coal manufactured gases and natural gas are expressed on a gross calorific value basis.

3. Includes Coking coal as well as peat and peat products, patent fuels, BKB and shale oil

Portugal

**Table 6b. Electricity and heat produced for sale from combustible fuels
in combined heat and power plants (CHP plants)**

	1990	2000	2005	2010	2012	2013	2014	90-00	00-14
Steam coal									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
CHP Heat production (TJ)	-	-	-	-	-	-	-	-	-
Lignite									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
CHP Heat production (TJ)	-	-	-	-	-	-	-	-	-
Coal manufactured gases¹									
Fuel input (TJ)	833	1922	-	-	-	-	-	8.7	-
Electricity production (GWh)	45	93	-	-	-	-	-	7.5	-
CHP Heat production (TJ)	-	-	-	-	-	-	-	-	-
Other coal products²									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
CHP Heat production (TJ)	-	-	-	-	-	-	-	-	-
Petroleum products									
Fuel input (1000 t)	226	680	577	332	180	105	81	11.6	-14.1
Fuel input (TJ)	9071	27577	23450	13565	7415	4516	3494	11.8	-13.7
Electricity production (GWh)	865	3230	2567	1710	1036	684	490	14.1	-12.6
CHP Heat production (TJ)	1188	4274	5015	2868	2111	813	299	13.7	-17.3
Natural gas¹									
Fuel input (TJ)	-	5299	23549	48426	55149	66274	59583	-	18.9
Electricity production (GWh)	-	518	1963	3878	4804	5578	5201	-	17.9
CHP Heat production (TJ)	-	1352	8697	18209	19308	24710	21068	-	21.7
Solid Biofuels									
Fuel input (TJ)	6253	7382	7582	8112	8891	8996	12376	1.7	3.8
Electricity production (GWh)	689	1030	1286	1560	1710	1780	1765	4.1	3.9
CHP Heat production (TJ)	-	-	-	-	-	-	-	-	-
Industrial waste									
Fuel input (TJ)	-	-	-	42	119	101	91	-	-
Electricity production (GWh)	-	-	-	5	8	9	9	-	-
CHP Heat production (TJ)	-	-	-	-	-	-	-	-	-
Municipal waste									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
CHP Heat production (TJ)	-	-	-	-	-	-	-	-	-
Biogases and liquid biofuels									
Fuel input (TJ)	-	48	89	141	146	151	163	-	9.1
Electricity production (GWh)	-	2	8	10	10	10	14	-	14.9
CHP Heat production (TJ)	-	-	-	-	-	-	-	-	-
Total combustible fuels									
Electricity production (GWh)	1599	4873	5824	7163	7568	8061	7479	11.8	3.1
CHP Heat production (TJ)	1188	5626	13712	21077	21419	25523	21367	16.8	10.0

1. Coal manufactured gases and natural gas are expressed on a gross calorific value basis.

2. Includes Coking coal as well as peat and peat products, patent fuels, BKB and shale oil

Portugal

Table 7. Net maximum electricity generating capacity on 31 December (GW)

	1974	1990	2000	2005	2010	2012	2013	2014
Total capacity¹	2.91	7.41	10.91	13.37	18.93	19.75	18.90	19.13
Nuclear	-	-	-	-	-	-	-	-
Hydro	2.12	3.36	4.54	5.02	5.11	5.71	5.66	5.72
<i>of which: pumped storage</i>	-	0.66	0.66	1.09	1.09	1.34	1.37	1.42
Geothermal	-	-	0.01	0.01	0.03	0.03	0.03	0.03
Solar PV	-	-	-	-	0.13	0.24	0.30	0.42
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	-	0.08	1.06	3.80	4.41	4.61	4.86
Other (e.g. fuel cells)	-	-	-	-	-	-	-	-
Combustible fuels	0.79	4.05	6.28	7.28	9.87	9.36	8.31	8.11
<i>of which⁽²⁾:</i>								
<i>Single-fired:</i>								
Coal and Coal products	-	1.17	1.78	1.78	1.76	1.76	1.76	1.76
Liquid fuels	0.53	2.57	2.34	2.30	2.86	2.06	1.00	0.67
Natural gas	-	-	1.15	2.10	4.43	4.61	4.63	4.62
Biofuels & waste	-	0.01	0.07	0.10	0.04	0.08	0.09	0.09
<i>Multi-fired:</i>								
Solid / liquid	0.26	0.30	0.21	0.20	0.25	0.10	0.10	0.08
Solid / natural gas	-	-	-	-	0.13	0.13	0.13	0.13
Liquid / natural gas	-	-	0.72	0.74	0.17	0.35	0.34	0.47
Solid / liquid / gas	-	-	-	0.06	0.25	0.28	0.28	0.30
<i>Type of generation</i>								
Steam	-	3.43	4.07	4.08	4.19	3.46	2.49	2.47
Internal combustion	-	0.29	0.81	1.01	1.29	1.23	1.12	1.04
Gas turbine	-	0.33	0.41	0.42	0.46	0.69	0.71	0.60
Combined cycle	-	-	0.99	1.77	3.94	3.97	3.99	4.00
Other	0.79	-	-	-	-	-	-	-
<i>Peak load</i>	..	5.03	6.56	8.53	9.40	8.55	8.32	8.31
Of which Autoproducers	0.19	0.52	1.12	1.31	1.83	2.11	2.06	2.11
Nuclear	-	-	-	-	-	-	-	-
Hydro	0.02	-	0.01	0.01	0.01	0.01	0.01	0.01
<i>of which: pumped storage</i>	-	-	-	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-	-
Solar PV	-	-	-	-	-	0.10	0.15	0.19
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	-	-	-	-	-	-	-
Other (e.g. fuel cells)	-	-	-	-	-	-	-	-
Combustible fuels	0.17	0.52	1.11	1.31	1.82	2.00	1.90	1.91

1. Sum of available capacity figures

2. Breakdown of electrical capacity by type of fuel are shown in the individual country chapters.

Portugal

Table 8. Capacity factors (%)

	1974	1990	2000	2005	2010	2012	2013	2014
Total plants¹	42.1	43.9	45.8	39.8	32.6	27.0	31.2	31.5
Nuclear	-	-	-	-	-	-	-	-
Hydro	42.5	31.6	29.5	11.7	37.0	13.3	30.0	32.8
<i>of which: pumped storage</i>	-	-	-	-	-	-	-	-
Geothermal	-	45.7	65.2	57.9	90.0	66.7	90.0	93.6
Solar PV	-	-	11.4	17.1	18.0	18.9	18.5	17.3
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	11.4	23.1	19.0	27.6	26.5	29.8	28.5
Other (e.g. fuel cells)	-	-	-	-	-	-	-	-
Combustible fuels	41.2	54.1	57.9	62.1	32.3	35.6	33.1	33.0
Of which autoproducers	32.1	31.7	49.0	48.1	48.4	45.1	50.0	45.7
Nuclear	-	-	-	-	-	-	-	-
Hydro	26.4	-	34.3	15.2	36.2	19.0	38.1	43.8
<i>of which: pumped storage</i>	-	-	-	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-	-
Solar PV	-	-	-	-	-	16.2	15.4	17.3
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	-	-	-	-	-	-	-
Other (e.g. fuel cells)	-	-	-	-	-	-	-	-
Combustible fuels	32.6	31.0	49.0	48.3	48.4	46.6	52.8	48.6

1. The capacity factor is defined as: the annual gross electricity generation (in GWh) divided by the net capacity (in GW) times 365 (days/year) times 24 (hours/day)

Portugal

Table 9a. Electricity imports by origin (GWh)

	1974	1990	2000	2005	2010	2012	2013	2014
Total imports	339	1733	4698	9626	5814	10766	8100	7247
Total from OECD	339	1733	4698	9626	5814	10766	8100	7247
Austria	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-
Canada	-	-	-	-	-	-	-	-
Czech Republic	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-
Greece	-	-	-	-	-	-	-	-
Hungary	-	-	-	-	-	-	-	-
Ireland	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-
Luxembourg	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-
Poland	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-
Slovak Republic	-	-	-	-	-	-	-	-
Slovenia	-	-	-	-	-	-	-	-
Spain	339	1733	4698	9626	5814	10766	8100	7247
Sweden	-	-	-	-	-	-	-	-
Switzerland	-	-	-	-	-	-	-	-
Turkey	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-
United States	-	-	-	-	-	-	-	-
Total from non-OECD	-	-	-	-	-	-	-	-
Albania	-	-	-	-	-	-	-	-
Azerbaijan	-	-	-	-	-	-	-	-
Belarus	-	-	-	-	-	-	-	-
Bulgaria	-	-	-	-	-	-	-	-
Croatia	-	-	-	-	-	-	-	-
F.Y.R. of Macedonia	-	-	-	-	-	-	-	-
Georgia	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-
Romania	-	-	-	-	-	-	-	-
Russian Federation	-	-	-	-	-	-	-	-
Serbia	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-
Turkmenistan	-	-	-	-	-	-	-	-
Ukraine	-	-	-	-	-	-	-	-
Non-specified/others	-	-	-	-	-	-	-	-

Portugal

Table 9b. Electricity exports by destination (GWh)

	1974	1990	2000	2005	2010	2012	2013	2014
Total exports	295	1696	3767	2802	3191	2871	5324	6344
Total to OECD	295	1696	3767	2802	3191	2871	5324	6344
Austria	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-
Canada	-	-	-	-	-	-	-	-
Czech Republic	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-
Greece	-	-	-	-	-	-	-	-
Hungary	-	-	-	-	-	-	-	-
Ireland	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-
Luxembourg	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-
Poland	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-
Slovak Republic	-	-	-	-	-	-	-	-
Slovenia	-	-	-	-	-	-	-	-
Spain	295	1696	3767	2802	3191	2871	5324	6344
Sweden	-	-	-	-	-	-	-	-
Switzerland	-	-	-	-	-	-	-	-
Turkey	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-
United States	-	-	-	-	-	-	-	-
Total to non-OECD	-	-	-	-	-	-	-	-
Albania	-	-	-	-	-	-	-	-
Azerbaijan	-	-	-	-	-	-	-	-
Belarus	-	-	-	-	-	-	-	-
Bulgaria	-	-	-	-	-	-	-	-
Croatia	-	-	-	-	-	-	-	-
F.Y.R. of Macedonia	-	-	-	-	-	-	-	-
Georgia	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-
Romania	-	-	-	-	-	-	-	-
Russian Federation	-	-	-	-	-	-	-	-
Serbia	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-
Turkmenistan	-	-	-	-	-	-	-	-
Ukraine	-	-	-	-	-	-	-	-
Non-specified/others	-	-	-	-	-	-	-	-

Portugal

Table 10a. Share of electricity in total final consumption (%)

	1974	1990	2000	2005	2010	2012	2013	2014
Share of total final consumption	13.0	15.1	17.1	19.5	22.6	24.3	24.0	24.0
Industry	18.3	22.6	22.3	26.3	27.6	29.8	29.9	30.1
Iron and steel	31.6	27.6	32.3	58.0	65.9	66.7	67.2	70.2
Chem. and petrochemical	39.9	37.7	48.0	45.6	36.9	39.3	39.8	48.5
Non-ferrous metals	97.5	32.4	23.5	44.3	45.3	52.0	43.9	41.0
Non-metallic minerals	7.1	11.2	9.2	10.9	11.8	14.6	14.3	14.1
Transport equipment	54.1	50.4	49.3	57.9	51.9	63.8	59.8	60.4
Machinery	95.1	75.0	77.3	63.3	73.3	68.6	68.2	69.3
Mining and quarrying	34.1	50.9	36.0	33.1	37.6	42.6	44.4	50.5
Food and tobacco	11.5	22.6	26.3	28.9	28.8	35.3	35.5	37.1
Paper, pulp and printing	16.7	13.2	14.2	18.1	20.5	17.8	18.7	20.0
Wood and wood products	30.7	42.3	36.2	43.1	53.9	41.1	44.0	42.5
Construction	6.5	9.9	13.7	17.2	21.2	22.5	22.1	21.8
Textile and leather	30.5	36.3	32.6	36.3	33.1	36.6	36.4	38.6
Non specified/other	9.4	23.4	66.6	84.0	79.2	82.7	85.1	67.3
Transport	1.2	0.8	0.5	0.6	0.6	0.6	0.5	0.5
Rail Transport	17.6	32.3	35.2	61.5	71.5	74.8	71.2	71.4
Pipeline Transport	-	-	-	-	-	100.0	100.0	100.0
Road	-	-	-	-	-	-	-	-
Transport Non Specified	-	-	-	-	-	-	-	-
Other sectors	20.9	27.9	38.4	41.2	51.4	51.8	51.1	51.5
Commercial & publ. serv.	41.0	69.1	69.8	56.8	75.1	74.9	75.7	75.7
Residential	21.1	22.3	30.8	35.5	42.0	41.1	40.1	39.9
Agriculture	1.6	5.0	8.6	16.5	24.2	24.7	23.3	20.1
Fishing	-	-	-	5.9	4.4	7.7	5.3	4.3
Sector non specified	-	-	-	-	-	-	-	-

Table 10b. Share of heat in total final consumption (%)

	1974	1990	2000	2005	2010	2012	2013	2014
Share of total final consumption	-	0.2	0.7	1.6	1.8	2.1	2.2	1.7
Industry	-	0.6	2.1	5.6	5.8	6.9	7.1	5.5
Iron and steel	-	-	-	-	-	-	-	-
Chem. and petrochemical	-	6.2	13.0	23.1	19.6	21.4	22.3	9.8
Non-ferrous metals	-	-	-	-	-	-	-	-
Non-metallic minerals	-	-	0.1	0.3	0.6	0.9	0.8	0.7
Transport equipment	-	-	-	-	-	-	-	-
Machinery	-	-	0.4	0.1	0.1	0.1	0.5	0.5
Mining and quarrying	-	-	-	19.3	17.6	21.0	24.1	15.6
Food and tobacco	-	-	3.1	7.7	7.1	7.4	8.6	9.4
Paper, pulp and printing	-	-	1.3	6.9	6.5	6.7	6.4	7.1
Wood and wood products	-	-	3.6	6.4	10.8	6.0	3.2	3.4
Construction	-	-	0.1	-	-	-	-	-
Textile and leather	-	-	4.8	10.6	10.2	13.1	12.9	11.8
Non specified/other	-	-	-	-	-	7.0	7.6	15.4
Transport	-	-	-	-	-	-	-	-
Other sectors	-	-	0.1	0.2	0.4	0.5	0.6	0.5
Commercial & publ. serv.	-	-	0.1	0.3	0.6	1.1	1.2	1.1
Residential	-	-	0.1	0.2	0.2	0.3	0.3	0.2
Agriculture	-	-	0.3	0.1	0.1	0.1	0.1	-
Fishing	-	-	-	-	-	-	-	-
Sector non specified	-	-	-	-	-	-	-	-

Source: IEA/OECD World Energy Balances.

Slovak Republic

Figure 1. Total final consumption by fuel

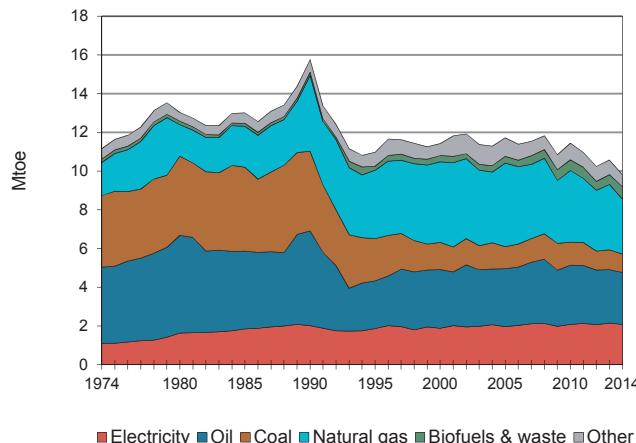


Figure 2. Electricity generation by fuel

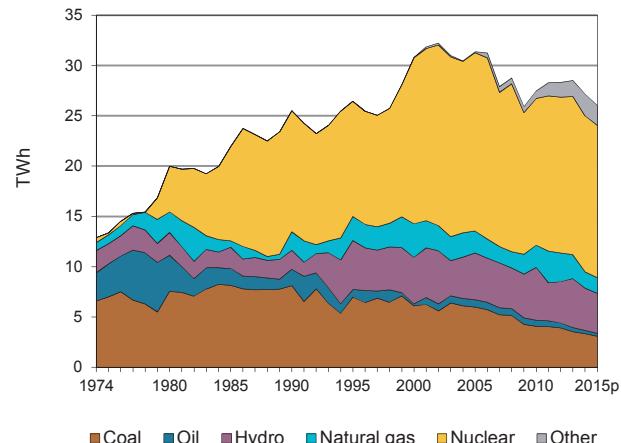


Figure 3. Electricity consumption by sector

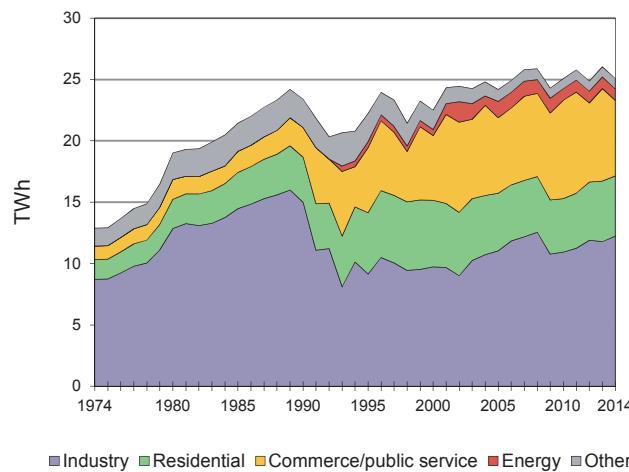


Figure 4. Electricity indicators

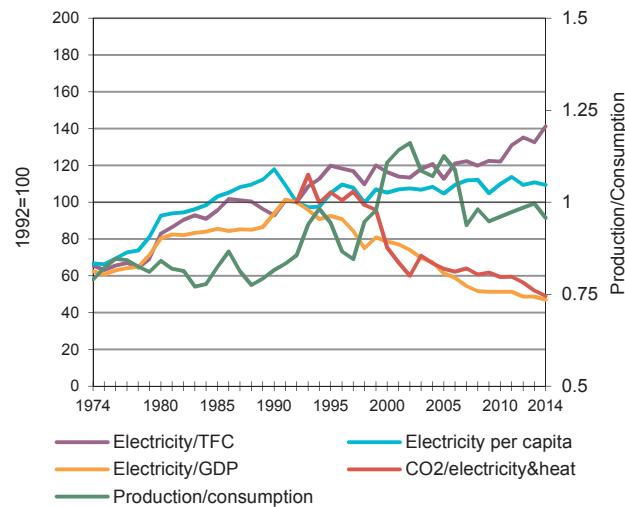
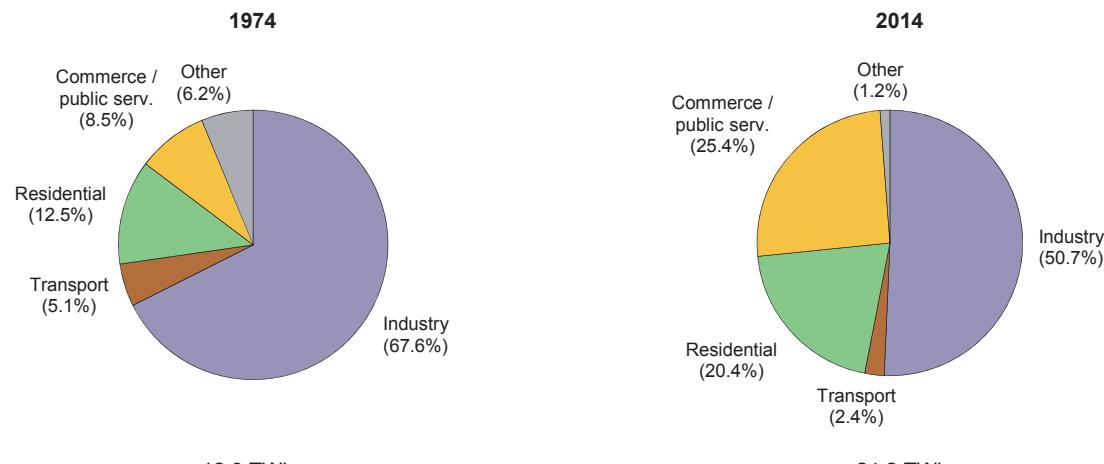


Figure 5. Total final electricity consumption by sector



Slovak Republic

Table 1. Energy consumption, GDP and population

	1974	1990	2000	2010	2013	2014	2015p	74-00	00-15
TPES (Mtoe)	16.25	21.33	17.74	17.83	16.95	15.95	16.29	0.3	-0.6
GDP (billion 2005 USD)	38.51	51.10	55.49	89.25	94.51	96.90	100.38	1.4	4.0
TPES/GDP ¹	0.42	0.42	0.32	0.20	0.18	0.16	0.16	-1.1	-4.4
Population (millions)	4.69	5.30	5.40	5.43	5.41	5.42	5.44	0.5	0.0
TPES/population ²	3.46	4.03	3.29	3.28	3.13	2.94	3.00	-0.2	-0.6
TPES/GDP (2005 = 100)	159	157	120	75	67	62	61	-1.1	-4.4
Ele.TFC/GDP(2005=100) ³	104	142	123	84	82	77	..	0.7	..
Ele.TFC/population ⁴	2752	4421	4077	4446	4636	4459	..	1.5	..
Elec. generated (TWh) ⁵	12.89	25.50	30.80	27.46	28.51	27.15	26.04	3.4	-1.1

Source: IEA/OECD *World Energy Balances* and OECD *Main Economic Indicators*.

Table 2. Total primary energy supply (TPES) by source

	1974	1990	2000	2010	2013	2014	2015p	74-00	00-15
TPES (Mtoe)	16.25	21.33	17.74	17.83	16.95	15.95	16.29	0.3	-0.6
Coal	7.94	7.83	4.27	3.90	3.45	3.42	3.26	-2.4	-1.8
Oil	5.65	4.49	2.82	3.62	3.25	3.00	3.39	-2.6	1.2
Natural gas	1.90	5.09	5.77	5.01	4.56	3.77	3.88	4.4	-2.6
Biofuels & waste	0.17	0.17	0.41	0.89	1.05	1.14	1.14	3.4	7.0
Nuclear	0.13	3.14	4.30	3.86	4.15	4.08	4.02	14.5	-0.4
Geothermal	-	-	-	0.01	0.01	0.01	0.00	-	-
Solar, wind, tide ⁶	-	-	-	0.01	0.06	0.06	0.06	-	-
Hydro	0.19	0.16	0.40	0.45	0.42	0.36	0.34	2.8	-1.0
Net electricity imports ⁷	0.26	0.45	-0.23	0.09	0.01	0.09	0.20	-	-
Heat	-	-	-	-	0.00	0.00	0.00	-	-

Source: IEA/OECD *World Energy Balances*.

1. In units of toe/2005 thousand US dollars.
2. In units of toe/per capita.
3. Ele.TFC = electricity total final consumption.
4. In units of kWh/per capita.
5. Electricity generated = gross production - amount of electricity produced in pumped storage plants.
6. Includes wave, ocean and other (e.g. fuel cells).
7. Net Imports = total imports - total exports

Slovak Republic

Table 3a. Summary electricity production and consumption¹ (TWh)

	1974	1990	2000	2005	2010	2013	2014	2015e
Gross production	12.89	26.13 e	31.16 e	31.46	27.86 e	28.83	27.40	26.31
- Own use by power plant	1.71	3.11 e	3.41 e	2.16	2.43	1.66	2.39	-
Net production	11.17	23.02 e	27.74 e	29.29	25.43 e	27.17	25.01	-
- Used for heat pumps	-	-	-	0.00	0.00	0.00	0.00	-
- Used for electric boilers	-	-	-	0.00	0.00	0.01	0.01	-
- Used for pumped storage	0.11	1.16	0.40	0.16	0.54	0.45	0.34	0.41
+ Imports	3.16	7.26	5.95	8.01	7.33	10.72	12.96	14.96
- Exports	0.18	2.06	8.65	11.27	6.29	10.63	11.86	12.61
Electrical energy supplied	14.05	27.06 e	24.65 e	25.87	25.93	26.80	25.75	..
- Transmission & distr. losses	1.15	1.96 e	1.76 e	1.69	0.86	0.76	0.67	..
- Statistical difference	-	1.69	0.39	-	-	-	-	..
Total consumption	12.90	23.41	22.50	24.18	25.08 e	26.04	25.08	..
Energy industry consumption²	-	-	0.49	1.33	0.94	0.96	0.93	..
Coal Mines	-	-	0.11	0.11	0.09	0.09	0.08	..
Oil + Gas Extraction	-	-	0.00	0.01	0.01	0.01	0.01	..
Patent Fuel Plants	-	-	-	-	-	-	-	..
Coke Ovens	-	-	0.05	0.06	0.06	0.06	0.06	..
BKB plants	-	-	-	-	-	-	-	..
Gas Works	-	-	-	-	-	-	-	..
Blast Furnaces	-	-	-	-	-	0.18	0.20	..
Oil Refineries	-	-	0.33	0.67	0.61	0.59	0.56	..
Nuclear Industry	-	-	-	-	-	-	-	..
Coal Liquefaction Plants	-	-	-	-	-	-	-	..
LNG/Regasification Plants	-	-	-	-	-	-	-	..
Energy - Non Specified	-	-	-	0.49	0.17	0.02	0.02	..
Final consumption	12.90	23.41	22.01	22.85	24.14 e	25.08	24.16	..
Industry	8.72	15.01	9.74	11.03	10.93	11.79	12.24	..
Iron and steel	-	-	3.25	2.29	2.35	2.45	2.49	..
Chem. and petrochemical	-	-	1.45	1.70	0.80	1.35	1.20	..
Non-ferrous metals	-	-	-	2.38	2.46	2.48	2.52	..
Non-metallic minerals	-	-	1.02	0.80	0.67	0.67	0.68	..
Transport equipment	-	-	0.25	0.23	0.74	0.95	1.46	..
Machinery	-	-	0.84	0.77	1.08	1.16	1.30	..
Mining and quarrying	-	-	0.13	0.10	0.05	0.03	0.03	..
Food and tobacco	-	-	1.12	0.54	0.48	0.50	0.57	..
Paper, pulp and printing	-	-	0.68	1.02	1.06	1.19	0.76	..
Wood and wood products	-	-	0.21	0.17	0.16	0.13	0.15	..
Construction	-	-	0.13	0.08	0.17	0.06	0.06	..
Textile and leather	-	-	0.33	0.23	0.13	0.13	0.14	..
Non specified/other	8.72	15.01	0.34	0.73	0.78	0.69	0.90	..
Transport	0.66	1.16	0.97	0.57	0.54	0.57	0.57	..
Rail Transport	0.66	1.16	0.97	0.49	0.46	0.49	0.48	..
Pipeline Transport	-	-	-	-	-	-	-	..
Road	-	-	-	-	-	0.03	0.03	..
Transport Non Specified	-	-	-	0.08	0.08	0.05	0.07	..
Commercial & publ. serv.	1.62	3.68	5.42	4.70	4.37 e	4.93	4.92	..
Residential	1.10	2.41	5.27	6.15	8.01 e	7.55	6.15	..
Agriculture	0.80	1.15	0.62	0.39	0.29	0.25	0.28	..
Fishing	-	-	-	-	-	-	-	..
Sector non specified	-	-	-	-	-	-	-	..

1. Electricity generation from main activity producer power plants and autoproducers .

2. Energy industry consumption = electricity consumed by transformation industries for heating, traction and lighting purposes;

excludes own use by power plant and electricity used for heat pumps, electric boilers and pumped storage.

Slovak Republic**Table 3b. Summary heat production and consumption¹ (TJ)**

	1974	1990	2000	2005	2010	2013	2014	2015e
Gross production	32552	33552 e	36824 e	52545	48582	42530	34804	35166
- Own use by power plant	-	-	-	3703	4821	3470	1745	-
Net production	32552	33552 e	36824 e	48842	43761	39060	33059	-
- Used for electricity production	-	-	-	-	-	-	-	-
+ Imports	-	-	-	-	-	-	74	80
- Exports	-	-	-	-	-	-	-	-
Heat energy supplied	32552	33552 e	36824 e	48842	43761	39060	33133	..
- Transmission & distr. losses	2315	2097 e	1836 e	5925	5792	5554	5410	..
- Statistical difference	-	-2182	3607	-	-	-	-	..
Total consumption	30237	33637	31381 e	42917	37969	33506	27723	..
Energy industry consumption²	7696	6500	5465 e	3091	2320	2413	2197	..
Coal Mines	-	-	-	164	122	81	68	..
Oil + Gas Extraction	-	-	-	-	-	-	-	..
Patent Fuel Plants	-	-	-	-	-	-	-	..
Coke Ovens	-	-	-	915	929	1258	1205	..
BKB plants	-	-	-	-	-	-	-	..
Gas Works	-	-	-	-	-	-	-	..
Blast Furnaces	-	-	-	-	-	368	346	..
Oil Refineries	-	-	-	1491	849	706	578	..
Nuclear Industry	-	-	-	-	-	-	-	..
Coal Liquefaction Plants	-	-	-	-	-	-	-	..
LNG/Regasification Plants	-	-	-	-	-	-	-	..
Energy - Non Specified	7696	6500	5465 e	521	420	-	-	..
Final consumption	22541	27137	25916 e	39826	35649	31093	25526	..
Industry	864	734	748 e	3433	4459	6112	5121	..
Iron and steel	-	-	-	-	-	-	-	..
Chem. and petrochemical	-	-	-	1725	2864	2820	2396	..
Non-ferrous metals	-	-	-	-	-	-	-	..
Non-metallic minerals	-	-	-	130	275	295	304	..
Transport equipment	-	-	182 e	122	127	132	136	..
Machinery	-	-	171 e	-	-	-	-	..
Mining and quarrying	-	-	-	1	3	3	-	..
Food and tobacco	-	-	61 e	72	64	218	183	..
Paper, pulp and printing	-	-	-	1010	780	2477	2010	..
Wood and wood products	-	-	122 e	-	127	63	5	..
Construction	-	-	31 e	104	91	59	36	..
Textile and leather	-	-	61 e	269	128	45	51	..
Non specified/other	864	734	120 e	-	-	-	-	..
Transport	-	-	-	-	-	-	-	..
Commercial & publ. serv.	5213	9725	7734 e	10027	10485	4041	2464	..
Residential	15536	15400	17004 e	26187	20563	20902	17906	..
Agriculture	928	1278	430 e	179	142	38	35	..
Fishing	-	-	-	-	-	-	-	..
Sector non specified	-	-	-	-	-	-	-	..

1. Heat generation from main activity producer power plants and autoproducers.

2. Energy industry consumption = electricity consumed by transformation industries for heating, traction and lighting purposes;

excludes own use by power plant and electricity used for heat pumps, electric boilers and pumped storage.

Slovak Republic

Table 4a. Gross electricity production by source (TWh)

	1974	1990	2000	2010	2013	2014	2015e	74-00	00-15
Total plants gross production¹	12.89	26.13 e	31.16 e	27.86	28.83	27.40	26.31	3.5	-1.1
Nuclear	0.49	12.04	16.49	14.57	15.72	15.50	15.15	14.5	-0.6
Hydro	2.22	2.52	4.98	5.65	5.17	4.46	4.26	3.1	-1.0
- Of which pumped storage	-	0.64	0.36	0.39	0.32	0.25	0.27	-	-1.9
Geothermal	-	-	-	-	-	-	-	-	-
Solar	-	-	-	0.02 e	0.59	0.60	0.59	-	-
Wind	-	-	-	0.01	0.01	0.01	0.01	-	-
Combustible fuels	10.18	11.58 e	9.69 e	7.57	7.28	6.72	6.26	-0.2	-2.9
- Coal	..	8.12 e	6.11 e	4.08	3.53	3.36	3.10	-	-4.4
- Oil	..	1.64 e	0.20 e	0.60	0.43	0.30	0.27	-	2.0
- Natural gas	..	1.82 e	3.34 e	2.21	2.39	1.62	1.55	-	-5.0
- Biofuels & waste	..	-	0.03 e	0.69	0.94	1.44	1.34	-	28.3
Other ²	-	-	-	0.04	0.07	0.12	0.05	-	-
Of which autoproducers	-	2.59 e	1.57 e	2.04	2.47	3.04	..	-	-
Nuclear	-	-	-	-	-	-	..	-	..
Hydro	-	-	-	0.11	0.11	0.12	..	-	..
- Of which pumped storage	-	-	-	-	-	-	..	-	..
Geothermal	-	-	-	-	-	-	..	-	..
Solar	-	-	-	0.02 e	0.46	0.48	..	-	..
Wind	-	-	-	0.01	0.01	0.01	..	-	..
Combustible fuels	-	2.59 e	1.57 e	1.87	1.83	2.32	..	-	-
- Coal	..	1.69 e	1.33 e	0.94	0.92	0.89	..	-	-
- Oil	..	0.83 e	-	0.01	0.01	0.00	..	-	..
- Natural gas	..	0.07 e	0.24 e	0.33	0.30	0.34	..	-	-
- Biofuels & waste	..	-	-	0.59	0.60	1.09	..	-	..
Other ²	-	-	-	0.04	0.07	0.12	..	-	..

Table 4b. Gross heat production by source (PJ)

	1974	1990	2000	2010	2013	2014	2015e	74-00	00-15
Total plants heat generation³	32.55	33.55 e	36.82 e	48.58	42.53	34.80	35.17	0.5	-0.3
Nuclear	-	-	-	2.50	2.15	1.80	2.98	-	-
Geothermal	-	-	-	0.14	0.10	0.12	-	-	-
Combustible fuels	32.55	33.55 e	36.82 e	45.87	40.19	32.83	32.18	0.5	-0.9
- Coal	..	18.30 e	11.58 e	11.77	9.20	7.47	7.32	-	-3.0
- Oil	..	3.42 e	0.86 e	6.38	4.43	3.94	3.87	-	10.5
- Natural gas	..	11.83 e	21.49 e	23.42	19.15	16.29	15.97	-	-2.0
- Biofuels & waste	..	-	2.89 e	4.30	7.42	5.13	5.03	-	3.8
Chemical processes	-	-	-	-	-	-	-	-	-
Heat pumps	-	-	-	0.00	0.01	0.01	-	-	-
Electric boilers	-	-	-	0.00	0.04	0.05	-	-	-
Other sources	-	-	-	0.07	0.04	0.01	-	-	-
Of which Autoproducers	-	5.77 e	7.78 e	3.92	5.62	2.97	..	-	-
Nuclear	-	-	-	-	-	-	..	-	..
Geothermal	-	-	-	0.06	0.00	0.04	..	-	..
Combustible fuels	-	5.77 e	7.78 e	3.79	5.61	2.90	..	-	-
- Coal	..	3.06 e	1.59 e	0.33	0.28	0.24	..	-	-
- Oil	..	0.08 e	-	0.03	0.00	0.01	..	-	..
- Natural gas	..	2.62 e	6.20 e	1.48	1.84	1.31	..	-	-
- Biofuels & waste	..	-	-	1.95	3.49	1.34	..	-	..
Chemical processes	-	-	-	-	-	-	..	-	..
Heat pumps	-	-	-	0.00	0.00	0.00	..	-	..
Electric boilers	-	-	-	0.00	0.00	0.02	..	-	..
Other sources	-	-	-	0.07	0.01	0.01	..	-	..

1. Electricity generated from main activity producer power plants and autoproducers.

2. Includes wave, ocean and other sources (e.g. fuel cells, electricity from chemical heat).

3. Total heat generation = gross production of heat from main activity producer + heat sold in autoproducers.

Slovak Republic**Table 5. Net electricity production by autoproducers (GWh)**

	1974	1990	2000	2010	2012	2013	2014	74-00	00-14
Total	-	2347	1432	2040 e	2073	2421	2623	-	4.4
Total energy	-	-	-	-	16	14	26	-	-
Coal mines	-	-	-	-	-	-	-	-	-
Oil and gas extraction	-	-	-	-	2	2	1	-	-
Patent fuel plants	-	-	-	-	-	-	-	-	-
Coke ovens	-	-	-	-	-	-	-	-	-
Gas works	-	-	-	-	-	-	-	-	-
BKB	-	-	-	-	-	-	-	-	-
Oil refineries	-	-	-	-	-	-	-	-	-
Energy non specified/other	-	-	-	-	-	-	-	-	-
Total industry	-	-	-	1833	1651	1957	1650	-	-
Iron and steel	-	-	-	960	1004	983	971	-	-
Chemical and petrochemical	-	-	-	39	67	81	79	-	-
Non-ferrous metals	-	-	-	29	-	-	-	-	-
Non-metallic minerals	-	-	-	-	-	-	-	-	-
Transport equipment	-	-	-	4	2	3	3	-	-
Machinery	-	-	-	2	2	2	5	-	-
Mining and quarrying	-	-	-	17	7	11	7	-	-
Food and tobacco	-	-	-	43	60	42	77	-	-
Pulp and printing	-	-	-	695	230	416	225	-	-
Wood and wood products	-	-	-	42	34	30	30	-	-
Construction	-	-	-	2	12	11	42	-	-
Textile and leather	-	-	-	-	-	-	-	-	-
Non specified/other industries	-	-	-	-	233	378	211	-	-
Total transport	-	-	-	-	-	-	-	-	-
Rail	-	-	-	-	-	-	-	-	-
Pipeline	-	-	-	-	-	-	-	-	-
Transport non specified	-	-	-	-	-	-	-	-	-
Other	-	2347	1432	207	406	450	947	-	-2.9
Commerce and pub. services	-	-	-	197 e	336	387	820	-	-
Residential	-	-	-	7 e	-	-	-	-	-
Agriculture	-	-	-	3	70	63	127	-	-
Fishing	-	-	-	-	-	-	-	-	-
Sector non specified	-	2347	1432	-	-	-	-	-	-

Notes: Data reported in this table prior to 1990 may refer to combustible fuels only.

Slovak Republic

Table 6a. Electricity production from combustible fuels in electricity plants¹

	1990	2000	2005	2010	2012	2013	2014	90-00	00-14
Steam coal									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
Lignite									
Fuel input (1000 t)	2036 e	1704 e	912	-	-	-	-	-1.8	-
Fuel input (TJ)	24840 e	19990 e	8775	-	-	-	-	-2.1	-
Electricity production (GWh)	2306 e	1683 e	712	-	-	-	-	-3.1	-
Coal manufactured gases²									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
Other coal products³									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
Oil and petroleum products									
Fuel input (1000 t)	3	31 e	3	1	1	1	-	26.3	-
Fuel input (TJ)	120	1681 e	108	44	46	26	15	30.2	-28.6
Electricity production (GWh)	8 e	202 e	9	5	5	3	2	38.1	-28.1
Natural gas²									
Fuel input (TJ)	11454 e	9563 e	-	6721	7109	4205	3530	-1.8	-6.9
Electricity production (GWh)	669 e	552 e	-	586	853	452	349	-1.9	-3.2
Solid biofuels									
Fuel input (TJ)	-	-	-	-	169	205	335	-	-
Electricity production (GWh)	-	-	-	-	8	7	11	-	-
Industrial waste									
Fuel input (TJ)	-	180 e	-	-	-	-	-	-	-
Electricity production (GWh)	-	32 e	-	-	-	-	-	-	-
Municipal waste									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
Biogases and liquid biofuels									
Fuel input (TJ)	-	-	6	14	826	1284	1575	-	-
Electricity production (GWh)	-	-	1	2	88	117	171	-	-
Total combustible fuels									
Electricity production (GWh)	2983 e	2469 e	722	593	954	579	533	-1.9	-10.4

1. Excludes CHP plants.

2. Coal manufactured gases and natural gas are expressed on a gross calorific value basis.

3. Includes Coking coal as well as peat and peat products, patent fuels, BKB and shale oil

Slovak Republic

**Table 6b. Electricity and heat produced for sale from combustible fuels
in combined heat and power plants (CHP plants)**

	1990	2000	2005	2010	2012	2013	2014	90-00	00-14
Steam coal									
Fuel input (1000 t)	1976 e	1329 e	1540	709	670	605	551	-3.9	-6.1
Fuel input (TJ)	48809 e	33011 e	38783	17626	16854	14573	13307	-3.8	-6.3
Electricity production (GWh)	4472 e	3369 e	3520	1395	1292	1051	953	-2.8	-8.6
CHP Heat production (TJ)	8988 e	4498 e	3847	2799	3833	4149	3343	-6.7	-2.1
Lignite									
Fuel input (1000 t)	1590 e	1256 e	1914	2849	2746	2602	2313	-2.3	4.5
Fuel input (TJ)	19158 e	14686 e	21116	32185	29713	28346	26026	-2.6	4.2
Electricity production (GWh)	728 e	532 e	1303	2166	2114	2002	1914	-3.1	9.6
CHP Heat production (TJ)	7917 e	6228 e	6615	8457	4744	4502	3743	-2.4	-3.6
Coal manufactured gases¹									
Fuel input (TJ)	3501 e	2998 e	2769	3003	3084	2787	2979	-1.5	-0.0
Electricity production (GWh)	617 e	527 e	445	510	490	452	483	-1.6	-0.6
CHP Heat production (TJ)	175 e	170 e	101	147	126	125	118	-0.3	-2.6
Other coal products²									
Fuel input (1000 t)	-	-	-	30	20	55	26	-	-
Fuel input (TJ)	-	-	-	515	346	938	446	-	-
Electricity production (GWh)	-	-	-	9	10	21	6	-	-
CHP Heat production (TJ)	-	-	-	175	82	277	171	-	-
Petroleum products									
Fuel input (1000 t)	254	-	100	307	258	230	175	-	-
Fuel input (TJ)	10210	-	4074	12381	10438	9352	7203	-	-
Electricity production (GWh)	1627 e	-	732	595	501	426	300	-	-
CHP Heat production (TJ)	1974 e	-	195	6366	4786	4412	3930	-	-
Natural gas¹									
Fuel input (TJ)	25758 e	29340 e	29657	19322	21044	22249	15475	1.3	-4.5
Electricity production (GWh)	1154 e	2792 e	2184	1620	2000	1941	1270	9.2	-5.5
CHP Heat production (TJ)	6235 e	5098 e	12911	7418	7340	8904	7417	-2.0	2.7
Solid Biofuels									
Fuel input (TJ)	-	-	345	9828	16373	16394	13528	-	-
Electricity production (GWh)	-	-	4	606	716	670	905	-	-
CHP Heat production (TJ)	-	-	178	2454	5113	4964	3047	-	-
Industrial waste									
Fuel input (TJ)	-	-	-	100	122	130	122	-	-
Electricity production (GWh)	-	-	-	11	11	13	14	-	-
CHP Heat production (TJ)	-	-	-	14	29	33	19	-	-
Municipal waste									
Fuel input (TJ)	-	-	1260	792	950	735	775	-	-
Electricity production (GWh)	-	-	47	35	41	32	33	-	-
CHP Heat production (TJ)	-	-	34	-	-	-	-	-	-
Biogases and liquid biofuels									
Fuel input (TJ)	-	-	62	331	950	788	2282	-	-
Electricity production (GWh)	-	-	4	32	102	96	308	-	-
CHP Heat production (TJ)	-	-	37	50	112	117	329	-	-
Total combustible fuels									
Electricity production (GWh)	8598 e	7220 e	8239	6979	7277	6704	6186	-1.7	-1.1
CHP Heat production (TJ)	25289 e	15994 e	23918	27880	26165	27483	22117	-4.5	2.3

1. Coal manufactured gases and natural gas are expressed on a gross calorific value basis.

2. Includes Coking coal as well as peat and peat products, patent fuels, BKB and shale oil

Slovak Republic**Table 6c. Heat produced for sale from combustible fuels in heat plants¹**

	1990	2000	2005	2010	2012	2013	2014	90-00	00-14
Steam coal									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Heat production (TJ)	-	-	-	-	-	-	-	-	-
Lignite									
Fuel input (1000 t)	114 e	68 e	32	12	10	10	6	-5.0	-15.9
Fuel input (TJ)	1371 e	790 e	445	207	164	149	102	-5.4	-13.6
Heat production (TJ)	1160 e	592 e	295	157	127	120	73	-6.5	-13.9
Coal manufactured gases²									
Fuel input (TJ)	42 e	58 e	34	26	21	22	25	3.3	-5.8
Heat production (TJ)	26 e	37 e	22	20	16	16	13	3.6	-7.2
Other coal products³									
Fuel input (1000 t)	2 e	3 e	3	1	1	1	-	4.1	-
Fuel input (TJ)	45 e	73 e	91	21	12	13	12	5.0	-12.1
Heat production (TJ)	34 e	53 e	57	16	9	9	8	4.5	-12.6
Petroleum products									
Fuel input (1000 t)	63 e	77 e	1	-	1	-	-	2.0	-
Fuel input (TJ)	2620 e	3101 e	83	14	28	18	14	1.7	-32.0
Heat production (TJ)	1450 e	861 e	62	13	24	13	11	-5.1	-26.8
Natural gas²									
Fuel input (TJ)	7768 e	22771 e	29451	19398	15266	12875	10763	11.4	-5.2
Heat production (TJ)	5593 e	16395 e	23674	16003	12237	10244	8868	11.4	-4.3
Solid biofuels									
Fuel input (TJ)	-	-	1887	2667	2953	2946	2200	-	-
Heat production (TJ)	-	-	1495	1602	2112	2103	1705	-	-
Industrial waste									
Fuel input (TJ)	-	3708 e	532	64	119	112	33	-	-28.6
Heat production (TJ)	-	2892 e	313	58	98	97	23	-	-29.2
Municipal waste									
Fuel input (TJ)	-	-	201	130	136	150	8	-	-
Heat production (TJ)	-	-	181	102	117	107	7	-	-
Biogases and liquid biofuels									
Fuel input (TJ)	-	-	98	30	-	-	-	-	-
Heat production (TJ)	-	-	98	20	-	-	-	-	-
Total combustible fuels									
Heat production (TJ)	8263 e	20830 e	26197	17991	14740	12709	10708	9.7	-4.6

1. Excludes CHP plants

2. Coal manufactured gases and natural gas are expressed on a gross calorific value basis.

3. Includes Coking coal as well as peat and peat products, patent fuels, BKB and shale oil

Slovak Republic**Table 7. Net maximum electricity generating capacity on 31 December (GW)**

	1974	1990	2000	2005	2010	2012	2013	2014
Total capacity¹	-	-	7.45	8.26	7.87	8.41	8.46	8.09
Nuclear	-	-	2.64	2.64	1.82	1.94	1.94	1.94
Hydro	-	..	2.42	2.51	2.52	2.52	2.52	2.52
<i>of which: pumped storage</i>	-	..	0.74	e	0.92	0.92	0.92	0.92
Geothermal	-	-	-	-	-	-	-	-
Solar PV	-	-	-	-	0.02	0.51	0.53	0.53
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	-	-	0.01	-	-	0.01	-
Other (e.g. fuel cells)	-	-	-	0.01	0.02	0.02	0.03	0.03
Combustible fuels	-	-	2.39	3.09	3.50	3.42	3.43	3.07
<i>of which⁽²⁾:</i>								
<i>Single-fired:</i>								
Coal and Coal products	-	-	..	1.24	0.96	0.93	0.98	0.93
Liquid fuels	-	-	..	0.01	0.11	0.13	0.14	0.14
Natural gas	-	-	..	0.41	1.08	1.00	1.02	1.02
Biofuels & waste	-	0.06	0.19	0.25	0.08	0.16
<i>Multi-fired:</i>								
Solid / liquid	-	-	..	-	-	-	-	-
Solid / natural gas	-	-	..	0.53	0.51	0.48	0.47	0.50
Liquid / natural gas	-	-	..	0.84	0.59	0.61	0.58	0.14
Solid / liquid / gas	-	-	..	-	0.04	0.03	0.16	0.18
<u>Type of generation</u>								
Steam	-	-	..	2.77	2.40	2.26	2.24	1.83
Internal combustion	-	-	..	0.02	0.08	0.16	0.24	0.21
Gas turbine	-	-	..	0.02	0.02	0.08	0.03	0.03
Combined cycle	-	-	..	0.25	0.99	0.89	0.87	0.91
Other	-	-	..	0.03	0.01	0.03	0.05	0.09
<u>Peak load</u>	4.28	4.35	4.34	4.40	4.18	4.12
Of which Autoproducers	-	-	-	0.56	0.62	1.04	1.07	1.15
Nuclear	-	-	-	-	-	-	-	-
Hydro	-	-	-	0.02	0.03	0.03	0.03	0.03
<i>of which: pumped storage</i>	-	-	-	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-	-
Solar PV	-	-	-	-	0.02	0.41	0.43	0.43
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	-	-	0.01	-	-	-	-
Other (e.g. fuel cells)	-	-	-	0.01	0.02	0.02	0.03	0.03
Combustible fuels	-	-	-	0.53	0.55	0.58	0.59	0.66

1. Sum of available capacity figures

2. Breakdown of electrical capacity by type of fuel are shown in the individual country chapters.

Slovak Republic**Table 8. Capacity factors (%)**

	1974	1990	2000	2005	2010	2012	2013	2014
Total plants¹	-	- e	47.7 e	43.5	40.4	38.9	38.9	38.7
Nuclear	-	-	71.3	76.7	91.4	91.2	92.5	91.2
Hydro	-	..	23.5	21.5	25.6	20.1	23.4	20.2
<i>of which: pumped storage</i>	-	..	5.6 e	1.3	4.9	4.2	4.0	3.2
Geothermal	-	-	-	-	-	-	-	-
Solar PV	-	-	-	-	10.2	9.4	12.6	12.8
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	-	-	13.7	22.8	22.8	13.7	22.8
Other (e.g. fuel cells)	-	-	-	22.8	24.0	41.5	31.5	53.9
Combustible fuels	-	- e	46.2 e	33.1	24.7	27.5	24.2	25.0
Of which autoproducers	-	- e	- e	49.3	37.9	27.8	26.3	30.3
Nuclear	-	-	-	-	-	-	-	-
Hydro	-	-	-	39.0	50.2	34.6	40.3	44.1
<i>of which: pumped storage</i>	-	-	-	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-	-
Solar PV	-	-	-	-	10.1	9.4	12.3	12.8
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	-	-	13.7	22.8	22.8	22.8	22.8
Other (e.g. fuel cells)	-	-	-	22.8	24.0	41.5	31.5	53.9
Combustible fuels	-	- e	- e	50.6	38.7	39.9	35.6	40.3

1. The capacity factor is defined as: the annual gross electricity generation (in GWh) divided by the net capacity (in GW) times 365 (days/year) times 24 (hours/day)

Slovak Republic**Table 9a. Electricity imports by origin (GWh)**

	1974	1990	2000	2005	2010	2012	2013	2014
Total imports	3161	7255	5951	8005	7334	13472	10719	12964
Total from OECD	-	-	5951	8000	7047	13416	10546	12902
Austria	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-
Canada	-	-	-	-	-	-	-	-
Czech Republic	-	-	4254	5208	5492	9915	7364	9400
Denmark	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-
Greece	-	-	-	-	-	-	-	-
Hungary	-	-	-	-	56	2	9	1
Ireland	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-
Luxembourg	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-
Poland	-	-	1697	2792	1499	3499	3173	3501
Portugal	-	-	-	-	-	-	-	-
Slovak Republic	-	-	-	-	-	-	-	-
Slovenia	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-
Switzerland	-	-	-	-	-	-	-	-
Turkey	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-
United States	-	-	-	-	-	-	-	-
Total from non-OECD	-	-	-	5	287	56	173	62
Albania	-	-	-	-	-	-	-	-
Azerbaijan	-	-	-	-	-	-	-	-
Belarus	-	-	-	-	-	-	-	-
Bulgaria	-	-	-	-	-	-	-	-
Croatia	-	-	-	-	-	-	-	-
F.Y.R. of Macedonia	-	-	-	-	-	-	-	-
Georgia	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-
Romania	-	-	-	-	-	-	-	-
Russian Federation	-	-	-	-	-	-	-	-
Serbia	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-
Turkmenistan	-	-	-	-	-	-	-	-
Ukraine	-	-	-	5	287	56	173	62
Non-specified/others	3161	7255	-	-	-	-	-	-

Slovak Republic**Table 9b. Electricity exports by destination (GWh)**

	1974	1990	2000	2005	2010	2012	2013	2014
Total exports	184	2059	8647	11270	6293	13079	10628	11862
Total to OECD	-	-	8647	9547	5382	10262	8616	9422
Austria	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-
Canada	-	-	-	-	-	-	-	-
Czech Republic	-	-	1247	740	365	29	196	59
Denmark	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-
Greece	-	-	-	-	-	-	-	-
Hungary	-	-	7400	8807	4935	10231	8298	9357
Ireland	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-
Luxembourg	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-
Poland	-	-	-	-	82	2	122	6
Portugal	-	-	-	-	-	-	-	-
Slovak Republic	-	-	-	-	-	-	-	-
Slovenia	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-
Switzerland	-	-	-	-	-	-	-	-
Turkey	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-
United States	-	-	-	-	-	-	-	-
Total to non-OECD	-	-	-	1723	911	2817	2012	2440
Albania	-	-	-	-	-	-	-	-
Azerbaijan	-	-	-	-	-	-	-	-
Belarus	-	-	-	-	-	-	-	-
Bulgaria	-	-	-	-	-	-	-	-
Croatia	-	-	-	-	-	-	-	-
F.Y.R. of Macedonia	-	-	-	-	-	-	-	-
Georgia	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-
Romania	-	-	-	-	-	-	-	-
Russian Federation	-	-	-	-	-	-	-	-
Serbia	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-
Turkmenistan	-	-	-	-	-	-	-	-
Ukraine	-	-	-	1723	911	2817	2012	2440
Non-specified/others	184	2059	-	-	-	-	-	-

Slovak Republic

Table 10a. Share of electricity in total final consumption (%)

	1974	1990	2000	2005	2010	2012	2013	2014
Share of total final consumption	9.9	12.8	16.6	16.8	18.2	20.1	20.4	21.2
Industry	12.9	21.2	23.1	26.1	29.1	31.2	31.7	31.9
Iron and steel	-	-	24.4	18.3	19.9	20.5	18.6	19.2
Chem. and petrochemical	-	-	20.4	29.2	20.4	28.5	38.8	38.0
Non-ferrous metals	-	-	-	84.8	85.9	85.9	87.2	87.0
Non-metallic minerals	-	-	12.2	13.8	15.4	16.7	15.0	13.7
Transport equipment	-	-	25.5	26.6	48.7	49.7	50.9	62.9
Machinery	-	-	41.8	43.5	52.7	54.3	53.2	55.6
Mining and quarrying	-	-	22.5	20.3	36.1	28.9	38.0	39.8
Food and tobacco	-	-	49.4	22.0	34.1	31.6	31.8	36.1
Paper, pulp and printing	-	-	25.9	18.1	17.2	20.1	23.8	14.7
Wood and wood products	-	-	55.7	29.2	22.9	22.2	28.5	29.1
Construction	-	-	18.9	16.2	26.6	14.6	17.5	18.4
Textile and leather	-	-	31.6	29.6	27.6	30.7	38.2	31.5
Non specified/other	15.4	47.5	13.6	33.4	52.5	52.0	51.4	54.3
Transport	3.5	6.9	5.8	2.1	1.8	2.1	2.1	2.2
Rail Transport	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Pipeline Transport	-	-	-	-	-	2.0	-	-
Road	-	-	-	-	-	-	0.1	0.1
Transport Non Specified	-	-	-	42.7	34.9	12.7	8.8	12.5
Other sectors	9.6	9.4	19.5	21.7	24.0	26.9	27.5	28.7
Commercial & publ. serv.	15.2	5.7	20.6	30.2	32.7 e	38.2	38.0	40.4
Residential	17.6	14.1	18.0	15.9	16.3 e	19.7	19.8	21.7
Agriculture	50.7	14.0	25.7	20.5	18.4	17.0	16.5	17.6
Fishing	-	-	-	-	-	-	-	-
Sector non specified	-	-	-	-	-	-	-	-

Table 10b. Share of heat in total final consumption (%)

	1974	1990	2000	2005	2010	2012	2013	2014
Share of total final consumption	4.8	4.1	5.4	8.1	7.4	7.5	7.0	6.2
Industry	0.4	0.3	0.5	2.3	3.3	4.8	4.6	3.7
Iron and steel	-	-	-	-	-	-	-	-
Chem. and petrochemical	-	-	-	8.2	20.2	15.1	22.5	21.0
Non-ferrous metals	-	-	-	-	-	-	-	-
Non-metallic minerals	-	-	-	0.6	1.8	2.3	1.8	1.7
Transport equipment	-	-	5.2 e	3.9	2.3	2.2	2.0	1.6
Machinery	-	-	2.4 e	-	-	-	-	-
Mining and quarrying	-	-	-	0.1	0.7	0.2	1.1	-
Food and tobacco	-	-	0.8 e	0.8	1.3	2.3	3.8	3.2
Paper, pulp and printing	-	-	-	5.0	3.5	17.2	13.7	10.8
Wood and wood products	-	-	9.1 e	-	4.9	2.8	3.7	0.3
Construction	-	-	1.2 e	6.1	4.0	5.1	4.8	3.1
Textile and leather	-	-	1.6 e	9.7	7.3	3.5	3.8	3.3
Non specified/other	0.4	0.7	1.3 e	-	-	-	-	-
Transport	-	-	-	-	-	-	-	-
Other sectors	16.4	9.5	12.0	19.5	16.4	16.5	15.0	14.3
Commercial & publ. serv.	20.1	6.4	8.4 e	13.7	11.9	8.5	5.6	4.5
Residential	47.0	16.4	15.7 e	24.6	21.3	23.3	23.3	21.9
Agriculture	16.3	4.3	5.0 e	2.6	2.5	0.7	0.7	0.6
Fishing	-	-	-	-	-	-	-	-
Sector non specified	-	-	-	-	-	-	-	-

Source: IEA/OECD World Energy Balances.

Slovenia

Figure 1. Total final consumption by fuel

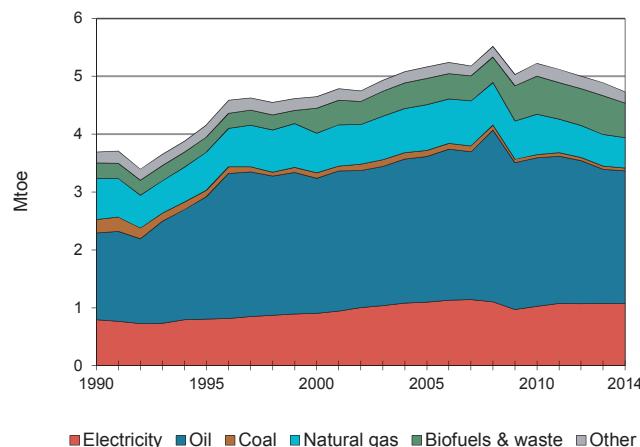


Figure 2. Electricity generation by fuel

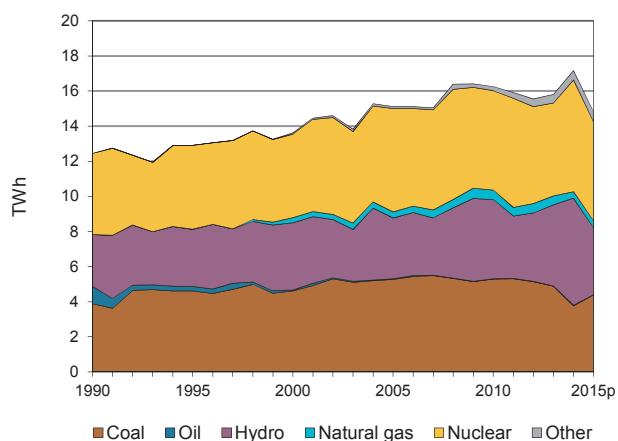


Figure 3. Electricity consumption by sector

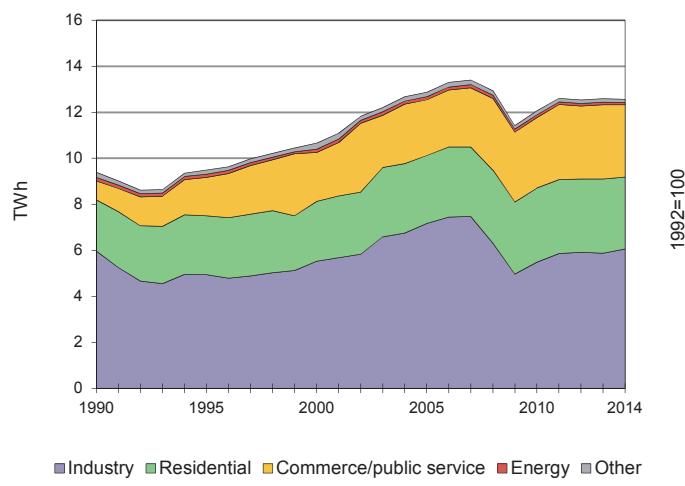


Figure 4. Electricity indicators

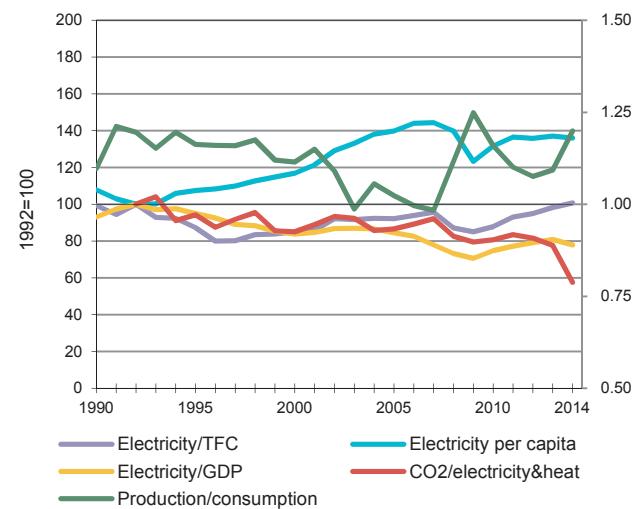
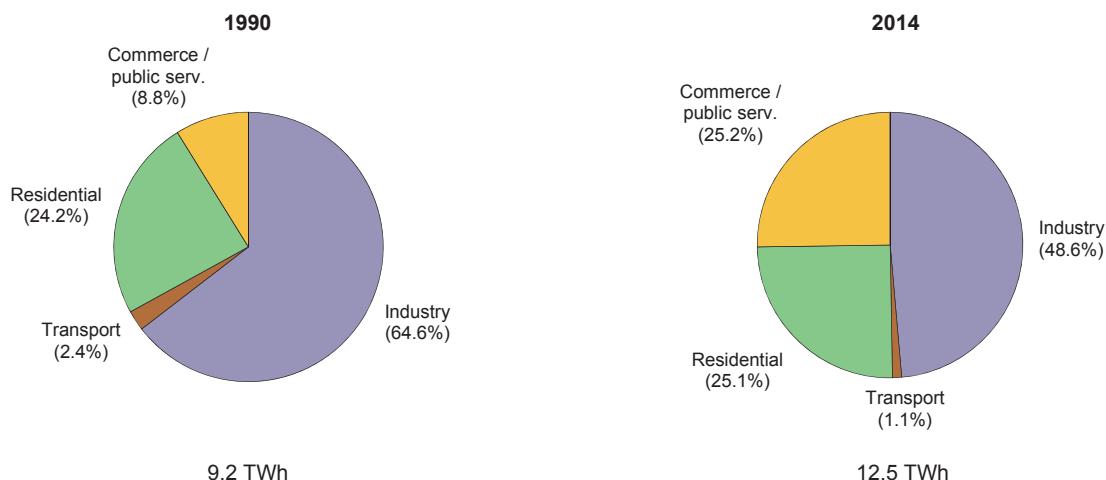


Figure 5. Total final electricity consumption by sector



Slovenia**Table 1. Energy consumption, GDP and population**

	1974	1990	2000	2010	2013	2014	2015p	74-00	00-15
TPES (Mtoe)	..	5.71	6.41	7.33	6.86	6.67	6.55	..	0.1
GDP (billion 2005 USD)	..	30.86	36.94	48.01	46.51	47.93	49.31	..	1.9
TPES/GDP ¹	..	0.19	0.17	0.15	0.15	0.14	0.13	..	-1.8
Population (millions)	..	2.00	1.99	2.05	2.06	2.06	2.07	..	0.3
TPES/population ²	..	2.86	3.22	3.58	3.33	3.24	3.16	..	-0.1
TPES/GDP (2005 = 100)	..	112	105	92	89	84	80	..	-1.8
Ele.TFC/GDP(2005=100) ³	..	104	99	86	93	90
Ele.TFC/population ⁴	..	4627	5291	5832	6060	6044
Elec. generated (TWh) ⁵	..	12.44	13.62	16.26	15.81	17.16	14.81	..	0.6

Source: IEA/OECD *World Energy Balances* and OECD *Main Economic Indicators*.**Table 2. Total primary energy supply (TPES) by source**

	1974	1990	2000	2010	2013	2014	2015p	74-00	00-15
TPES (Mtoe)	..	5.71	6.41	7.33	6.86	6.67	6.55	..	0.1
Coal	..	1.58	1.31	1.45	1.35	1.05	1.05	..	-1.5
Oil	..	1.73	2.37	2.57	2.33	2.31	2.28	..	-0.3
Natural gas	..	0.76	0.83	0.86	0.69	0.63	0.66	..	-1.4
Biofuels & waste	..	0.27	0.46	0.73	0.76	0.68	0.70	..	2.9
Nuclear	..	1.20	1.24	1.47	1.38	1.66	1.47	..	1.1
Geothermal	..	-	-	0.03	0.03	0.03	0.03	..	-
Solar, wind, tide ⁶	..	-	-	0.01	0.03	0.03	0.03	..	-
Hydro	..	0.25	0.33	0.39	0.40	0.52	0.33	..	-0.0
Net electricity imports ⁷	..	-0.08	-0.11	-0.18	-0.11	-0.24	-0.00	..	-19.8
Heat	..	-	-	-	-	-	-	..	-

Source: IEA/OECD *World Energy Balances*.

1. In units of toe/2005 thousand US dollars.
2. In units of toe/per capita.
3. Ele.TFC = electricity total final consumption.
4. In units of kWh/per capita.
5. Electricity generated = gross production - amount of electricity produced in pumped storage plants.
6. Includes wave, ocean and other (e.g. fuel cells).
7. Net Imports = total imports - total exports

Slovenia**Table 3a. Summary electricity production and consumption¹ (TWh)**

	1974	1990	2000	2005	2010	2013	2014	2015e
Gross production	..	12.44	13.62	15.12	16.44	16.10	17.44	15.09
- Own use by power plant	..	1.27	0.83	0.97	1.03	0.99	0.95	-
Net production	..	11.18	12.80	14.15	15.41	15.12	16.49	-
- Used for heat pumps	..	-	-	-	-	-	-	-
- Used for electric boilers	..	-	-	-	-	-	-	-
- Used for pumped storage	..	-	-	-	0.25	0.39	0.36	0.38
+ Imports	..	1.72	4.23	9.34	8.63	7.52	7.25	9.05
- Exports	..	2.70	5.55	9.67	10.75	8.81	10.00	9.09
Electrical energy supplied	..	10.19	11.47	13.82	13.05	13.44	13.38	..
- Transmission & distr. losses	..	0.80	0.81	0.95	0.98	0.85	0.82	..
- Statistical difference	..	-	-	-	-	-	-	..
Total consumption	..	9.39	10.66	12.87	12.06	12.59	12.56	..
Energy industry consumption²	..	0.15	0.14	0.13	0.12	0.11	0.10	..
Coal Mines	..	0.13	0.08	0.08	0.07	0.06	0.06	..
Oil + Gas Extraction	..	-	-	-	-	-	-	..
Patent Fuel Plants	..	-	-	-	-	-	-	..
Coke Ovens	..	-	-	-	-	-	-	..
BKB plants	..	-	-	-	-	-	-	..
Gas Works	..	-	-	-	-	-	-	..
Blast Furnaces	..	-	-	-	-	-	-	..
Oil Refineries	..	0.03	0.03	-	-	-	-	..
Nuclear Industry	..	-	-	-	-	-	-	..
Coal Liquefaction Plants	..	-	-	-	-	-	-	..
LNG/Regasification Plants	..	-	-	-	-	-	-	..
Energy - Non Specified	..	-	0.03	0.05	0.05	0.05	0.04	..
Final consumption	..	9.24	10.52	12.74	11.95	12.48	12.46	..
Industry	..	5.97	5.53	7.17	5.49	5.88	6.06	..
Iron and steel	..	1.23	0.87	0.75	0.74	0.77	0.76	..
Chem. and petrochemical	..	0.32	0.42	0.85	0.66	0.62	0.66	..
Non-ferrous metals	..	1.66	1.19	1.91	0.71	1.30	1.31	..
Non-metallic minerals	..	0.14	0.45	0.46	0.41	0.35	0.37	..
Transport equipment	..	-	0.11	0.16	0.21	0.21	0.23	..
Machinery	..	0.74	0.67	0.88	0.93	0.89	0.91	..
Mining and quarrying	..	-	0.04	0.05	0.10	0.12	0.13	..
Food and tobacco	..	0.22	0.26	0.30	0.28	0.27	0.28	..
Paper, pulp and printing	..	0.66	0.67	0.75	0.65	0.62	0.68	..
Wood and wood products	..	0.32	0.17	0.22	0.17	0.15	0.16	..
Construction	..	0.22	0.11	0.14	0.06	0.04	0.04	..
Textile and leather	..	0.39	0.29	0.25	0.15	0.12	0.11	..
Non specified/other	..	0.09	0.30	0.46	0.43	0.41	0.42	..
Transport	..	0.22	0.27	0.20	0.17	0.15	0.14	..
Rail Transport	..	0.22	0.15	0.19	0.16	0.15	0.13	..
Pipeline Transport	..	-	-	-	-	-	-	..
Road	..	-	-	-	-	-	-	..
Transport Non Specified	..	-	0.12	0.01	0.01	0.01	0.01	..
Commercial & publ. serv.	..	2.23	2.60	2.95	3.22	3.23	3.13	..
Residential	..	0.82	2.13	2.42	3.07	3.22	3.14	..
Agriculture	..	-	-	-	-	-	-	..
Fishing	..	-	-	-	-	-	-	..
Sector non specified	..	-	-	-	-	-	-	..

1. Electricity generation from main activity producer power plants and autoproducers .

2. Energy industry consumption = electricity consumed by transformation industries for heating, traction and lighting purposes;

excludes own use by power plant and electricity used for heat pumps, electric boilers and pumped storage.

Slovenia**Table 3b. Summary heat production and consumption¹ (TJ)**

	1974	1990	2000	2005	2010	2013	2014	2015e
Gross production	..	8223	9389	10104	9781	9428	8183	8638
- Own use by power plant	..	189	217	173	207	354	395	-
Net production	..	8034	9172	9931	9574	9074	7788	-
- Used for electricity production	..	-	-	-	-	-	-	-
+ Imports	..	-	-	-	-	-	-	-
- Exports	..	-	-	-	-	-	-	-
Heat energy supplied	..	8034	9172	9931	9574	9074	7788	..
- Transmission & distr. losses	..	-	991	1663	1455	1330	1278	..
- Statistical difference	..	-	-	-	-	-	-	..
Total consumption	..	8034	8181	8268	8119	7744	6510	..
Energy industry consumption²	..	-	-	74	89	83	65	..
Coal Mines	..	-	-	74	80	74	55	..
Oil + Gas Extraction	..	-	-	-	-	-	-	..
Patent Fuel Plants	..	-	-	-	-	-	-	..
Coke Ovens	..	-	-	-	-	-	-	..
BKB plants	..	-	-	-	-	-	-	..
Gas Works	..	-	-	-	-	-	-	..
Blast Furnaces	..	-	-	-	-	-	-	..
Oil Refineries	..	-	-	-	-	-	-	..
Nuclear Industry	..	-	-	-	-	-	-	..
Coal Liquefaction Plants	..	-	-	-	-	-	-	..
LNG/Regasification Plants	..	-	-	-	-	-	-	..
Energy - Non Specified	..	-	-	-	9	9	10	..
Final consumption	..	8034	8181	8194	8030	7661	6445	..
Industry	..	1647	1100	2592	2249	2172	2033	..
Iron and steel	..	-	-	198	148	78	66	..
Chem. and petrochemical	..	-	-	775	1032	1151	1155	..
Non-ferrous metals	..	-	-	-	12	68	46	..
Non-metallic minerals	..	-	-	-	33	43	24	..
Transport equipment	..	-	-	36	7	4	8	..
Machinery	..	-	-	382	345	301	276	..
Mining and quarrying	..	-	-	-	1	1	-	..
Food and tobacco	..	-	-	163	174	134	118	..
Paper, pulp and printing	..	-	-	45	32	44	43	..
Wood and wood products	..	-	-	189	50	19	12	..
Construction	..	-	-	95	16	9	8	..
Textile and leather	..	-	-	255	81	69	42	..
Non specified/other	..	1647	1100	454	318	251	235	..
Transport	..	-	-	-	-	-	-	..
Commercial & publ. serv.	..	2477	3129	1049	1536	2079	1614	..
Residential	..	3910	3952	4553	4245	3410	2798	..
Agriculture	..	-	-	-	-	-	-	..
Fishing	..	-	-	-	-	-	-	..
Sector non specified	..	-	-	-	-	-	-	..

1. Heat generation from main activity producer power plants and autoproducers.

2. Energy industry consumption = electricity consumed by transformation industries for heating, traction and lighting purposes;

excludes own use by power plant and electricity used for heat pumps, electric boilers and pumped storage.

Slovenia

Table 4a. Gross electricity production by source (TWh)

	1974	1990	2000	2010	2013	2014	2015e	74-00	00-15
Total plants gross production¹	-	12.44	13.62	16.44	16.10	17.44	15.09	-	0.7
Nuclear	-	4.62	4.76	5.66	5.30	6.37	5.65	-	1.1
Hydro	-	2.95	3.83	4.70	4.92	6.37	4.09	-	0.4
- Of which pumped storage	-	-	-	0.19	0.29	0.27	0.28	-	-
Geothermal	-	-	-	-	-	-	-	-	-
Solar	-	-	-	0.01	0.22	0.26	0.27	-	-
Wind	-	-	-	-	0.00	0.00	0.01	-	-
Combustible fuels	-	4.87	5.03	6.07	5.66	4.44	5.07	-	0.1
- Coal	..	3.89	4.61	5.29	4.88	3.76	4.38	..	-0.3
- Oil	..	0.98	0.06	0.01	0.01	0.04	0.02	..	-6.5
- Natural gas	..	0.00	0.29	0.55	0.51	0.37	0.40	..	2.1
- Biofuels & waste	..	-	0.07	0.22	0.27	0.27	0.27	..	9.4
Other ²	-	-	-	-	-	-	-	-	-
Of which autoproducers	-	1.10	0.64	0.47	0.62	0.75	..	-	..
Nuclear	-	-	-	-	-	-	..	-	..
Hydro	-	0.09	0.19	0.17	0.17	0.23	..	-	..
- Of which pumped storage	-	-	-	-	-	-	..	-	..
Geothermal	-	-	-	-	-	-	..	-	..
Solar	-	-	-	0.01	0.21	0.25	..	-	..
Wind	-	-	-	-	-	-	..	-	..
Combustible fuels	-	1.00	0.45	0.29	0.25	0.27	..	-	..
- Coal	..	0.08	0.04	0.05	0.04	0.04
- Oil	..	0.93	0.05	-	-	-
- Natural gas	..	0.00	0.29	0.13	0.11	0.13
- Biofuels & waste	..	-	0.07	0.11	0.10	0.10
Other ²	-	-	-	-	-	-	..	-	..

Table 4b. Gross heat production by source (PJ)

	1974	1990	2000	2010	2013	2014	2015e	74-00	00-15
Total plants heat generation³	-	8.22	9.39	9.78	9.43	8.18	8.64	-	-0.6
Nuclear	-	-	-	-	-	-	-	-	-
Geothermal	-	-	-	0.02	0.02	0.02	0.02	-	-
Combustible fuels	-	8.22	9.39	9.76	9.41	8.16	8.62	-	-0.6
- Coal	..	5.33	5.48	6.03	5.30	4.37	4.95	..	-0.7
- Oil	..	0.82	0.20	0.19	0.23	0.22	0.13	..	-2.7
- Natural gas	..	1.92	3.43	2.60	2.56	2.26	2.04	..	-3.4
- Biofuels & waste	..	0.15	0.28	0.94	1.32	1.31	1.50	..	11.9
Chemical processes	-	-	-	-	-	-	-	-	-
Heat pumps	-	-	-	-	-	-	-	-	-
Electric boilers	-	-	-	-	-	-	-	-	-
Other sources	-	-	-	-	-	-	-	-	-
Of which Autoproducers	-	0.76	0.93	0.14	0.12	0.11	..	-	..
Nuclear	-	-	-	-	-	-	..	-	..
Geothermal	-	-	-	-	-	-	..	-	..
Combustible fuels	-	0.76	0.93	0.14	0.12	0.11	..	-	..
- Coal	..	0.08	-	-	-	-
- Oil	..	-	-	0.01	0.00	0.00
- Natural gas	..	0.69	0.93	0.04	0.06	0.06
- Biofuels & waste	..	-	-	0.10	0.06	0.04
Chemical processes	-	-	-	-	-	-	..	-	..
Heat pumps	-	-	-	-	-	-	..	-	..
Electric boilers	-	-	-	-	-	-	..	-	..
Other sources	-	-	-	-	-	-	..	-	..

1. Electricity generated from main activity producer power plants and autoproducers.

2. Includes wave, ocean and other sources (e.g. fuel cells, electricity from chemical heat).

3. Total heat generation = gross production of heat from main activity producer + heat sold in autoproducers.

Slovenia**Table 5. Net electricity production by autoproducers (GWh)**

	1974	1990	2000	2010	2012	2013	2014	74-00	00-14
Total	..	987	593	432	503	588	720	..	1.4
Total energy	..	12	173	-	-	-	-	..	-
Coal mines	..	-	-	-	-	-	-	..	-
Oil and gas extraction	..	-	-	-	-	-	-	..	-
Patent fuel plants	..	-	-	-	-	-	-	..	-
Coke ovens	..	-	-	-	-	-	-	..	-
Gas works	..	-	-	-	-	-	-	..	-
BKB	..	-	22	-	-	-	-	..	-
Oil refineries	..	-	-	-	-	-	-	..	-
Energy non specified/other	..	-	-	-	-	-	-	..	-
Total industry	..	960	319	258	222	223	248	..	-1.8
Iron and steel	..	66	-	-	-	-	-	..	-
Chemical and petrochemical	..	16	9	23	7	7	18	..	5.1
Non-ferrous metals	..	21	-	-	-	-	-	..	-
Non-metallic minerals	..	-	-	7	9	10	10	..	-
Transport equipment	..	-	-	-	-	-	-	..	-
Machinery	..	-	2	3	7	6	10	..	12.2
Mining and quarrying	..	13	-	-	-	-	-	..	-
Food and tobacco	..	42	17	3	-	1	1	..	-18.3
Pulp and printing	..	693	246	149	128	127	122	..	-4.9
Wood and wood products	..	11	-	45	47	44	53	..	-
Construction	..	-	-	-	-	-	-	..	-
Textile and leather	..	98	30	25	24	28	34	..	0.9
Non specified/other industries	..	-	15	3	-	-	-	..	-
Total transport	..	-	-	-	-	-	-	..	-
Rail	..	-	-	-	-	-	-	..	-
Pipeline	..	-	-	-	-	-	-	..	-
Transport non specified	..	-	-	-	-	-	-	..	-
Other	..	15	101	174	281	365	472	..	11.6
Commerce and pub. services	..	-	12	86	68	76	97	..	16.1
Residential	..	-	-	-	-	-	-	..	-
Agriculture	..	-	-	-	-	-	-	..	-
Fishing	..	-	-	-	-	-	-	..	-
Sector non specified	..	15	89	88	213	289	375	..	10.8

Notes: Data reported in this table prior to 1990 may refer to combustible fuels only.

Slovenia**Table 6a. Electricity production from combustible fuels in electricity plants¹**

	1990	2000	2005	2010	2012	2013	2014	90-00	00-14
Steam coal									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
Lignite									
Fuel input (1000 t)	597	609	566	443	532	455	99	0.2	-12.2
Fuel input (TJ)	4914	6833	6792	5902	6367	5512	1094	3.4	-12.3
Electricity production (GWh)	352	646	625	573	635	536	97	6.3	-12.7
Coal manufactured gases²									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
Other coal products³									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
Oil and petroleum products									
Fuel input (1000 t)	6	2	4	1	2	1	2	-10.4	-
Fuel input (TJ)	260	85	138	59	80	48	103	-10.6	1.4
Electricity production (GWh)	51	3	7	4	6	4	8	-24.7	7.3
Natural gas²									
Fuel input (TJ)	-	53	409	66	113	63	83	-	3.3
Electricity production (GWh)	-	3	34	4	7	4	5	-	3.7
Solid biofuels									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
Industrial waste									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
Municipal waste									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
Biogases and liquid biofuels									
Fuel input (TJ)	-	-	101	107	77	73	70	-	-
Electricity production (GWh)	-	-	9	7	5	4	4	-	-
Total combustible fuels									
Electricity production (GWh)	403	652	675	588	653	548	114	4.9	-11.7

1. Excludes CHP plants.

2. Coal manufactured gases and natural gas are expressed on a gross calorific value basis.

3. Includes Coking coal as well as peat and peat products, patent fuels, BKB and shale oil

Slovenia**Table 6b. Electricity and heat produced for sale from combustible fuels
in combined heat and power plants (CHP plants)**

	1990	2000	2005	2010	2012	2013	2014	90-00	00-14
Steam coal									
Fuel input (1000 t)	206	362	488	440	390	380	350	5.8	-0.2
Fuel input (TJ)	1696	6514	8923	8040	7248	7047	6584	14.4	0.1
Electricity production (GWh)	155	307	519	458	434	404	403	7.1	2.0
CHP Heat production (TJ)	227	4048	4756	4635	3970	4040	3229	33.4	-1.6
Lignite									
Fuel input (1000 t)	4475	3859	4014	3959	3953	3546	3058	-1.5	-1.6
Fuel input (TJ)	36834	38832	43365	43926	41911	41096	34161	0.5	-0.9
Electricity production (GWh)	3383	3658	4127	4257	4076	3936	3259	0.8	-0.8
CHP Heat production (TJ)	4920	1433	1600	1392	1243	1257	1100	-11.6	-1.9
Coal manufactured gases¹									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
CHP Heat production (TJ)	-	-	-	-	-	-	-	-	-
Other coal products²									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
CHP Heat production (TJ)	-	-	-	-	-	-	-	-	-
Petroleum products									
Fuel input (1000 t)	152	11	5	2	1	1	6	-23.1	-4.2
Fuel input (TJ)	6116	443	248	52	32	30	247	-23.1	-4.1
Electricity production (GWh)	929	52	35	4	3	3	34	-25.0	-3.0
CHP Heat production (TJ)	164	24	13	11	-	-	7	-17.5	-8.4
Natural gas¹									
Fuel input (TJ)	937	2689	2296	5147	5045	4761	3070	11.1	1.0
Electricity production (GWh)	2	290	305	544	524	505	369	64.5	1.7
CHP Heat production (TJ)	685	931	602	892	1002	959	975	3.1	0.3
Solid Biofuels									
Fuel input (TJ)	-	521	994	1524	1380	1495	1467	-	7.7
Electricity production (GWh)	-	58	82	120	114	120	125	-	5.6
CHP Heat production (TJ)	-	-	133	538	492	517	565	-	-
Industrial waste									
Fuel input (TJ)	-	-	26	21	316	310	321	-	-
Electricity production (GWh)	-	-	6	5	6	7	7	-	-
CHP Heat production (TJ)	-	-	-	-	80	106	130	-	-
Municipal waste									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
CHP Heat production (TJ)	-	-	-	-	-	-	-	-	-
Biogases and liquid biofuels									
Fuel input (TJ)	-	124	122	1059	1420	1294	1168	-	17.4
Electricity production (GWh)	-	12	23	91	148	138	129	-	18.5
CHP Heat production (TJ)	-	-	-	194	391	370	365	-	-
Total combustible fuels									
Electricity production (GWh)	4469	4377	5097	5479	5305	5113	4326	-0.2	-0.1
CHP Heat production (TJ)	5996	6436	7104	7662	7178	7249	6371	0.7	-0.1

1. Coal manufactured gases and natural gas are expressed on a gross calorific value basis.

2. Includes Coking coal as well as peat and peat products, patent fuels, BKB and shale oil

Slovenia**Table 6c. Heat produced for sale from combustible fuels in heat plants¹**

	1990	2000	2005	2010	2012	2013	2014	90-00	00-14
Steam coal									
Fuel input (1000 t)	25	-	1	-	-	-	4	-	-
Fuel input (TJ)	206	-	20	-	-	-	66	-	-
Heat production (TJ)	185	-	18	-	-	-	45	-	-
Lignite									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Heat production (TJ)	-	-	-	-	-	-	-	-	-
Coal manufactured gases²									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Heat production (TJ)	-	-	-	-	-	-	-	-	-
Other coal products³									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Heat production (TJ)	-	-	-	-	-	-	-	-	-
Petroleum products									
Fuel input (1000 t)	19	4	5	4	5	6	6	-14.4	2.9
Fuel input (TJ)	773	179	223	207	230	253	249	-13.6	2.4
Heat production (TJ)	657	174	192	178	199	229	215	-12.4	1.5
Natural gas²									
Fuel input (TJ)	1510	3138	3550	2083	2108	1863	1520	7.6	-5.0
Heat production (TJ)	1236	2502	2531	1709	1765	1596	1286	7.3	-4.6
Solid biofuels									
Fuel input (TJ)	159	327	317	269	416	383	287	7.5	-0.9
Heat production (TJ)	149	263	259	209	335	331	247	5.8	-0.4
Industrial waste									
Fuel input (TJ)	-	14	-	-	-	-	-	-	-
Heat production (TJ)	-	14	-	-	-	-	-	-	-
Municipal waste									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Heat production (TJ)	-	-	-	-	-	-	-	-	-
Biogases and liquid biofuels									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Heat production (TJ)	-	-	-	-	-	-	-	-	-
Total combustible fuels									
Heat production (TJ)	2227	2953	3000	2096	2299	2156	1793	2.9	-3.5

1. Excludes CHP plants

2. Coal manufactured gases and natural gas are expressed on a gross calorific value basis.

3. Includes Coking coal as well as peat and peat products, patent fuels, BKB and shale oil

Slovenia**Table 7. Net maximum electricity generating capacity on 31 December (GW)**

	1974	1990	2000	2005	2010	2012	2013	2014
Total capacity¹	..	0.76	2.61	2.99	3.19	3.35	3.43	3.45
Nuclear	..	-	0.66	0.66	0.67	0.69	0.69	0.69
Hydro	..	0.76	0.84	0.98	1.25	1.25	1.30	1.30
<i>of which: pumped storage</i>	..	-	-	-	0.18	0.18	0.18	0.18
Geothermal	..	-	-	-	-	-	-	-
Solar PV	..	-	-	-	0.01	0.14	0.19	0.22
Solar thermal	..	-	-	-	-	-	-	-
Tide, wave, ocean	..	-	-	-	-	-	-	-
Wind	..	-	-	-	-	-	-	-
Other (e.g. fuel cells)	..	-	-	-	-	-	-	-
Combustible fuels	..	-	1.12	1.36	1.26	1.27	1.26	1.24
<i>of which⁽²⁾:</i>								
<i>Single-fired:</i>								
Coal and Coal products	..	-	1.01	0.94	0.84	0.84	0.84	0.81
Liquid fuels	..	-	0.01	0.01	-	-	-	-
Natural gas	..	-	0.05	0.38	0.39	0.38	0.37	0.38
Biofuels & waste	..	-	-	0.01	0.03	0.04	0.04	0.05
<i>Multi-fired:</i>								
Solid / liquid	..	-	0.02	-	-	-	-	-
Solid / natural gas	..	-	-	-	-	-	-	-
Liquid / natural gas	..	-	0.02	0.01	-	-	-	-
Solid / liquid / gas	..	-	-	0.02	0.01	0.01	0.01	0.01
<i>Type of generation</i>								
Steam	..	-	1.09	1.00	0.91	0.87	0.87	0.84
Internal combustion	..	-	0.01	0.03	0.04	0.08	0.08	0.09
Gas turbine	..	-	0.02	0.32	0.31	0.32	0.31	0.31
Combined cycle	..	-	-	-	-	-	-	-
Other	..	-	-	-	-	-	-	-
<i>Peak load</i>	1.71	2.04	1.94	2.07	1.94	1.99
Of which Autoproducers	..	0.03	0.19	0.18	0.18	0.29	0.34	0.38
Nuclear	..	-	-	-	-	-	-	-
Hydro	..	0.03	0.09	0.10	0.12	0.12	0.12	0.12
<i>of which: pumped storage</i>	..	-	-	-	-	-	-	-
Geothermal	..	-	-	-	-	-	-	-
Solar PV	..	-	-	-	0.01	0.14	0.18	0.22
Solar thermal	..	-	-	-	-	-	-	-
Tide, wave, ocean	..	-	-	-	-	-	-	-
Wind	..	-	-	-	-	-	-	-
Other (e.g. fuel cells)	..	-	-	-	-	-	-	-
Combustible fuels	..	-	0.10	0.08	0.06	0.04	0.04	0.05

1. Sum of available capacity figures

2. Breakdown of electrical capacity by type of fuel are shown in the individual country chapters.

Slovenia**Table 8. Capacity factors (%)**

	1974	1990	2000	2005	2010	2012	2013	2014
Total plants¹	..	188.2	59.5	57.7	58.8	53.6	53.5	57.6
Nuclear	..	-	82.9	102.4	97.0	91.7	87.9	105.7
Hydro	..	44.6	51.9	40.4	42.8	37.2	43.3	56.1
<i>of which: pumped storage</i>	..	-	-	-	11.7	11.9	18.7	17.4
Geothermal	..	-	-	-	-	-	-	-
Solar PV	..	-	-	-	12.4	13.1	13.1	13.1
Solar thermal	..	-	-	-	-	-	-	-
Tide, wave, ocean	..	-	-	-	-	-	-	-
Wind	..	-	-	-	-	-	11.4	11.4
Other (e.g. fuel cells)	..	-	-	-	-	-	-	-
Combustible fuels	..	-	51.5	48.6	54.9	53.7	51.5	40.8
Of which autoproducers	..	464.2	39.0	36.9	29.2	20.8	21.0	22.3
Nuclear	..	-	-	-	-	-	-	-
Hydro	..	39.7	23.6	24.7	16.3	12.4	16.3	22.4
<i>of which: pumped storage</i>	..	-	-	-	-	-	-	-
Geothermal	..	-	-	-	-	-	-	-
Solar PV	..	-	-	-	12.5	13.1	13.2	13.1
Solar thermal	..	-	-	-	-	-	-	-
Tide, wave, ocean	..	-	-	-	-	-	-	-
Wind	..	-	-	-	-	-	-	-
Other (e.g. fuel cells)	..	-	-	-	-	-	-	-
Combustible fuels	..	-	53.5	53.3	58.7	71.6	67.1	61.9

1. The capacity factor is defined as: the annual gross electricity generation (in GWh) divided by the net capacity (in GW) times 365 (days/year) times 24 (hours/day)

Slovenia**Table 9a. Electricity imports by origin (GWh)**

	1974	1990	2000	2005	2010	2012	2013	2014
Total imports	..	1716	4232	9342	8625	7452	7521	7254
Total from OECD	..	-	3821	1350	2132	4712	2311	3238
Austria	..	-	3815	1349	2008	4596	2179	3121
Belgium	..	-	-	-	-	-	-	-
Canada	..	-	-	-	-	-	-	-
Czech Republic	..	-	-	-	-	-	-	-
Denmark	..	-	-	-	-	-	-	-
Estonia	..	-	-	-	-	-	-	-
Finland	..	-	-	-	-	-	-	-
France	..	-	-	-	-	-	-	-
Germany	..	-	-	-	-	-	-	-
Greece	..	-	-	-	-	-	-	-
Hungary	..	-	-	-	-	-	-	-
Ireland	..	-	-	-	-	-	-	-
Italy	..	-	6	1	124	116	132	117
Luxembourg	..	-	-	-	-	-	-	-
Mexico	..	-	-	-	-	-	-	-
Netherlands	..	-	-	-	-	-	-	-
Norway	..	-	-	-	-	-	-	-
Poland	..	-	-	-	-	-	-	-
Portugal	..	-	-	-	-	-	-	-
Slovak Republic	..	-	-	-	-	-	-	-
Slovenia	..	-	-	-	-	-	-	-
Spain	..	-	-	-	-	-	-	-
Sweden	..	-	-	-	-	-	-	-
Switzerland	..	-	-	-	-	-	-	-
Turkey	..	-	-	-	-	-	-	-
United Kingdom	..	-	-	-	-	-	-	-
United States	..	-	-	-	-	-	-	-
Total from non-OECD	..	-	403	7992	6493	2740	5210	4016
Albania	..	-	-	-	-	-	-	-
Azerbaijan	..	-	-	-	-	-	-	-
Belarus	..	-	-	-	-	-	-	-
Bulgaria	..	-	-	-	-	-	-	-
Croatia	..	-	403	7992	6493	2740	5210	4016
F.Y.R. of Macedonia	..	-	-	-	-	-	-	-
Georgia	..	-	-	-	-	-	-	-
Latvia	..	-	-	-	-	-	-	-
Lithuania	..	-	-	-	-	-	-	-
Romania	..	-	-	-	-	-	-	-
Russian Federation	..	-	-	-	-	-	-	-
Serbia	..	-	-	-	-	-	-	-
Syria	..	-	-	-	-	-	-	-
Turkmenistan	..	-	-	-	-	-	-	-
Ukraine	..	-	-	-	-	-	-	-
Non-specified/others	..	1716	8	-	-	-	-	-

Slovenia**Table 9b. Electricity exports by destination (GWh)**

	1974	1990	2000	2005	2010	2012	2013	2014
Total exports	..	2704	5553	9667	10745	8491	8811	9997
Total to OECD	..	-	2946	8655	8099	4088	6225	5715
Austria	..	-	1276	532	583	111	781	494
Belgium	..	-	-	-	-	-	-	-
Canada	..	-	-	-	-	-	-	-
Czech Republic	..	-	-	-	-	-	-	-
Denmark	..	-	-	-	-	-	-	-
Estonia	..	-	-	-	-	-	-	-
Finland	..	-	-	-	-	-	-	-
France	..	-	-	-	-	-	-	-
Germany	..	-	-	-	-	-	-	-
Greece	..	-	-	-	-	-	-	-
Hungary	..	-	-	-	-	-	-	-
Ireland	..	-	-	-	-	-	-	-
Italy	..	-	1670	8123	7516	3977	5444	5221
Luxembourg	..	-	-	-	-	-	-	-
Mexico	..	-	-	-	-	-	-	-
Netherlands	..	-	-	-	-	-	-	-
Norway	..	-	-	-	-	-	-	-
Poland	..	-	-	-	-	-	-	-
Portugal	..	-	-	-	-	-	-	-
Slovak Republic	..	-	-	-	-	-	-	-
Slovenia	..	-	-	-	-	-	-	-
Spain	..	-	-	-	-	-	-	-
Sweden	..	-	-	-	-	-	-	-
Switzerland	..	-	-	-	-	-	-	-
Turkey	..	-	-	-	-	-	-	-
United Kingdom	..	-	-	-	-	-	-	-
United States	..	-	-	-	-	-	-	-
Total to non-OECD	..	-	2607	1012	2646	4403	2586	4282
Albania	..	-	-	-	-	-	-	-
Azerbaijan	..	-	-	-	-	-	-	-
Belarus	..	-	-	-	-	-	-	-
Bulgaria	..	-	-	-	-	-	-	-
Croatia	..	-	2607	1012	2646	4403	2586	4282
F.Y.R. of Macedonia	..	-	-	-	-	-	-	-
Georgia	..	-	-	-	-	-	-	-
Latvia	..	-	-	-	-	-	-	-
Lithuania	..	-	-	-	-	-	-	-
Romania	..	-	-	-	-	-	-	-
Russian Federation	..	-	-	-	-	-	-	-
Serbia	..	-	-	-	-	-	-	-
Syria	..	-	-	-	-	-	-	-
Turkmenistan	..	-	-	-	-	-	-	-
Ukraine	..	-	-	-	-	-	-	-
Non-specified/others	..	2704	-	-	-	-	-	-

Slovenia**Table 10a. Share of electricity in total final consumption (%)**

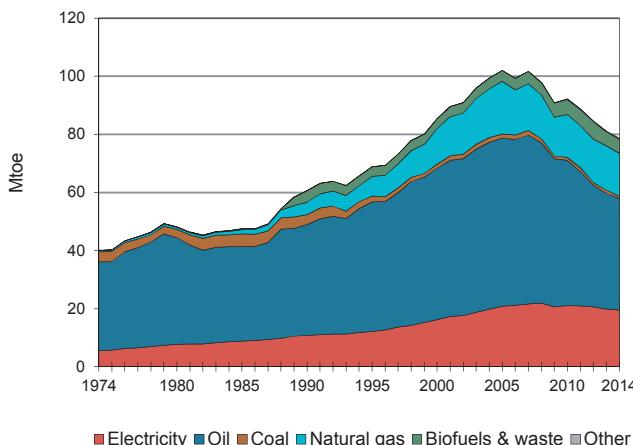
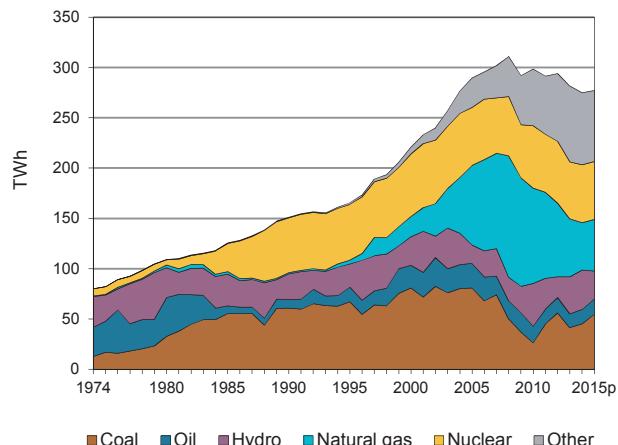
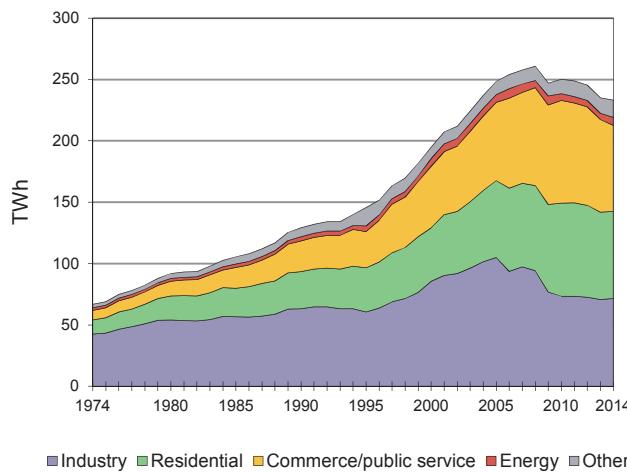
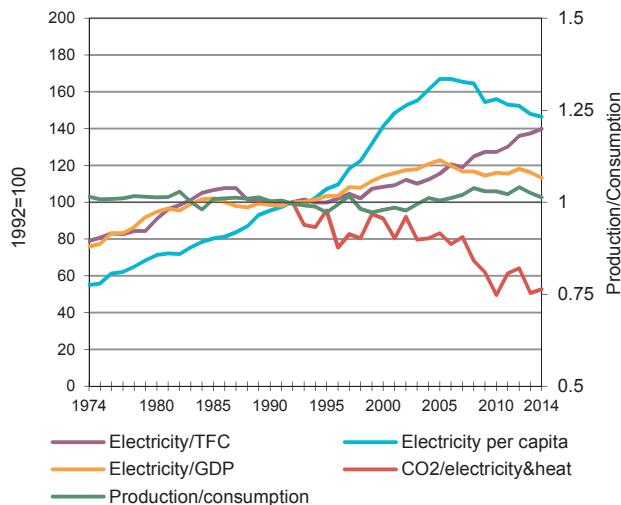
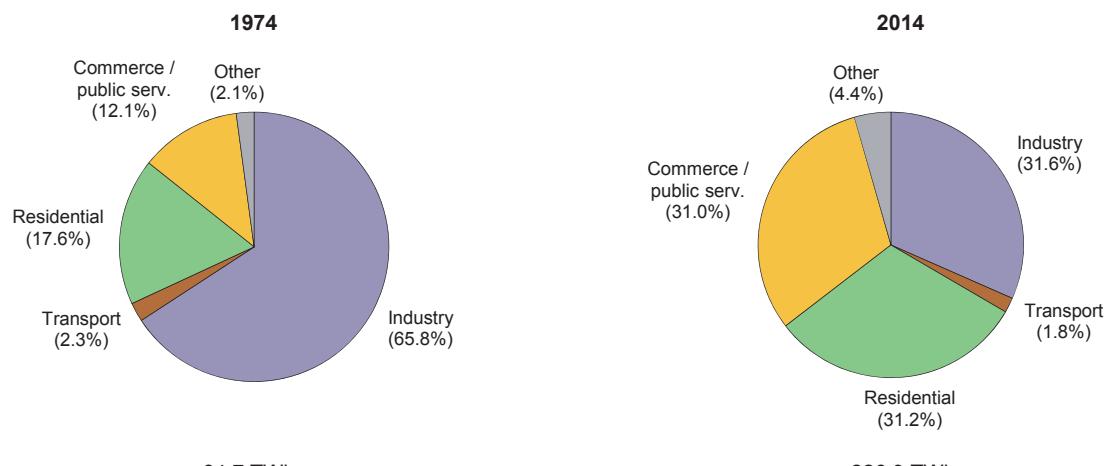
	1974	1990	2000	2005	2010	2012	2013	2014
Share of total final consumption	..	21.5	19.5	21.2	19.7	21.4	22.0	22.6
Industry	..	33.6	33.4	37.6	37.1	42.2	42.3	42.3
Iron and steel	..	48.1	44.7	41.8	42.9	44.2	44.8	45.2
Chem. and petrochemical	..	48.7	31.0	43.6	33.7	37.5	35.7	37.6
Non-ferrous metals	..	67.6	85.6	87.8	64.5	74.7	74.5	74.4
Non-metallic minerals	..	10.6	17.3	16.5	17.8	17.8	17.1	17.5
Transport equipment	..	-	42.9	42.9	49.6	60.4	57.4	61.8
Machinery	..	39.4	46.2	43.9	54.3	52.9	57.3	58.8
Mining and quarrying	..	-	22.9	38.5	52.9	62.6	66.7	68.7
Food and tobacco	..	21.2	23.9	28.8	32.8	38.3	36.6	33.2
Paper, pulp and printing	..	43.9	27.1	23.3	31.1	32.7	32.6	34.8
Wood and wood products	..	59.3	30.9	29.3	25.8	39.6	33.8	22.8
Construction	..	12.6	9.7	16.0	13.2	10.8	13.5	13.5
Textile and leather	..	27.5	28.8	32.6	37.2	39.6	38.6	39.7
Non specified/other	..	3.2	25.0	37.3	43.6	48.1	49.8	50.8
Transport	..	2.1	1.9	1.2	0.8	0.7	0.7	0.7
Rail Transport	..	65.4	53.0	56.8	60.6	58.8	55.2	46.0
Pipeline Transport	..	-	-	-	-	-	-	-
Road	..	-	-	-	-	-	-	-
Transport Non Specified	..	-	100.0	100.0	100.0	100.0	100.0	100.0
Other sectors	..	21.0	23.0	26.3	27.5	30.8	31.4	34.5
Commercial & publ. serv.	..	23.9	34.8	43.9	49.5	60.1	59.2	63.2
Residential	..	20.2	19.9	21.4	20.8	22.3	22.9	25.8
Agriculture	..	-	-	-	-	-	-	-
Fishing	..	-	-	-	-	-	-	-
Sector non specified	..	-	-	-	-	-	-	-

Table 10b. Share of heat in total final consumption (%)

	1974	1990	2000	2005	2010	2012	2013	2014
Share of total final consumption	..	5.2	4.2	3.8	3.7	3.7	3.7	3.3
Industry	..	2.6	1.8	3.8	4.2	4.5	4.3	4.0
Iron and steel	..	-	-	3.1	2.4	2.2	1.3	1.1
Chem. and petrochemical	..	-	-	11.0	14.6	18.0	18.4	18.2
Non-ferrous metals	..	-	-	-	0.3	1.0	1.1	0.7
Non-metallic minerals	..	-	-	-	0.4	1.0	0.6	0.3
Transport equipment	..	-	-	2.8	0.5	1.6	0.3	0.6
Machinery	..	-	-	5.3	5.6	5.2	5.4	5.0
Mining and quarrying	..	-	-	-	0.2	0.2	0.2	-
Food and tobacco	..	-	-	4.4	5.7	5.9	5.1	3.9
Paper, pulp and printing	..	-	-	0.4	0.4	0.1	0.6	0.6
Wood and wood products	..	-	-	7.1	2.1	2.0	1.2	0.5
Construction	..	-	-	3.0	1.1	1.6	0.8	0.8
Textile and leather	..	-	-	9.2	5.6	3.3	6.1	4.4
Non specified/other	..	16.8	25.4	10.3	8.9	10.9	8.5	7.9
Transport	..	-	-	-	-	-	-	-
Other sectors	..	12.2	9.6	7.6	7.0	7.2	7.4	6.8
Commercial & publ. serv.	..	20.1	14.2	5.3	6.9	10.1	10.6	9.0
Residential	..	9.8	8.4	9.2	7.6	6.7	6.7	6.4
Agriculture	..	-	-	-	-	-	-	-
Fishing	..	-	-	-	-	-	-	-
Sector non specified	..	-	-	-	-	-	-	-

Source: IEA/OECD World Energy Balances.

Spain

Figure 1. Total final consumption by fuel**Figure 2. Electricity generation by fuel****Figure 3. Electricity consumption by sector****Figure 4. Electricity indicators****Figure 5. Total final electricity consumption by sector**

Spain**Table 1. Energy consumption, GDP and population**

	1974	1990	2000	2010	2013	2014	2015p	74-00	00-15
TPES (Mtoe)	55.89	90.07	121.86	127.75	117.11	114.56	119.43	3.0	-0.1
GDP (billion 2005 USD)	590.06	873.15	1149.49	1431.59	1357.06	1375.52	1419.73	2.6	1.4
TPES/GDP ¹	0.09	0.10	0.11	0.09	0.09	0.08	0.08	0.4	-1.5
Population (millions)	35.59	39.34	40.55	46.56	46.59	46.46	46.66	0.5	0.9
TPES/population ²	1.57	2.29	3.00	2.74	2.51	2.47	2.56	2.5	-1.1
TPES/GDP (2005 = 100)	91	99	101	85	83	80	80	0.4	-1.5
Ele.TFC/GDP(2005=100) ³	61	81	92	96	95	92	..	1.6	..
Ele.TFC/population ⁴	1819	3199	4649	5259	4940	4885	..	3.7	..
Elec. generated (TWh) ⁵	80.08	151.21	220.92	298.32	281.45	274.95	277.19	4.0	1.5

Source: IEA/OECD *World Energy Balances* and OECD *Main Economic Indicators*.**Table 2. Total primary energy supply (TPES) by source**

	1974	1990	2000	2010	2013	2014	2015p	74-00	00-15
TPES (Mtoe)	55.89	90.07	121.86	127.75	117.11	114.56	119.43	3.0	-0.1
Coal	8.75	19.27	20.94	7.81	11.01	11.41	12.98	3.4	-3.1
Oil	41.82	45.47	62.10	58.16	47.81	46.87	49.54	1.5	-1.5
Natural gas	0.91	4.97	15.21	31.12	26.16	23.66	24.59	11.5	3.3
Biofuels & waste	0.01	4.07	4.13	6.73	7.14	7.00	7.58	25.2	4.1
Nuclear	1.88	14.14	16.21	16.15	14.78	14.93	14.93	8.6	-0.5
Geothermal	-	0.00	0.01	0.02	0.02	0.02	0.02	-	9.1
Solar, wind, tide ⁶	-	0.00	0.44	4.84	7.61	7.58	7.40	-	20.7
Hydro	2.63	2.19	2.43	e	3.64	3.17	3.37	2.40	-0.3
Net electricity imports ⁷	-0.10	-0.04	0.38	-0.72	-0.58	-0.29	-0.01	-	-
Heat	-	-	-	-	-	-	-	-	-

Source: IEA/OECD *World Energy Balances*.

1. In units of toe/2005 thousand US dollars.
2. In units of toe/per capita.
3. Ele.TFC = electricity total final consumption.
4. In units of kWh/per capita.
5. Electricity generated = gross production - amount of electricity produced in pumped storage plants.
6. Includes wave, ocean and other (e.g. fuel cells).
7. Net Imports = total imports - total exports

Spain

Table 3a. Summary electricity production and consumption¹ (TWh)

	1974	1990	2000	2005	2010	2013	2014	2015e
Gross production	80.86	151.92	224.47	294.08	301.53	285.63	278.75	280.48
- Own use by power plant	3.65	7.27	10.03	11.95	10.58	10.23	10.37	-
Net production	77.21	144.65	214.44	282.13	290.95	275.40	268.38	-
- Used for heat pumps	-	-	-	-	-	-	-	-
- Used for electric boilers	-	-	-	-	-	-	-	-
- Used for pumped storage	1.11	1.03	4.91	6.36	4.46	5.91	5.20	4.52
+ Imports	0.66	3.21	12.27	10.21	5.21	9.89	12.31	14.96
- Exports	1.80	3.63	7.83	11.56	13.54	16.64	15.72	15.09
Electrical energy supplied	74.96	143.20	213.98	274.43	278.16	262.74	259.77	..
- Transmission & distr. losses	8.12	14.04	19.27	25.96	27.40	26.69	26.39	..
- Statistical difference	-	-	-	-	0.59	0.86	0.07	..
Total consumption	66.84	129.16	194.71	248.47 e	250.17	235.18	233.31	..
Energy industry consumption²	2.13	3.36	6.25	6.25 e	5.37	5.09	6.41	..
Coal Mines	0.80	1.17	1.76	0.85 e	0.14	0.27	0.45	..
Oil + Gas Extraction	0.01	0.02	0.01	0.08 e	0.05	0.02	0.15	..
Patent Fuel Plants	0.00	-	-	-	-	-	-	..
Coke Ovens	0.09	0.04	0.04	0.00 e	0.00	0.05	0.05	..
BKB plants	-	-	-	-	-	-	-	..
Gas Works	0.42	0.15	0.14	0.46 e	0.05	0.11	0.10	..
Blast Furnaces	-	-	-	-	-	-	-	..
Oil Refineries	0.80	1.98	3.60	3.53 e	3.44	2.60	3.62	..
Nuclear Industry	-	-	0.03	0.02 e	0.17	0.15	0.15	..
Coal Liquefaction Plants	-	-	-	-	-	-	-	..
LNG/Regasification Plants	-	-	-	-	-	-	-	..
Energy - Non Specified	-	-	0.68	1.31 e	1.53	1.89	1.90	..
Final consumption	64.71	125.80	188.46	242.22 e	244.80	230.09	226.90	..
Industry	42.58	63.28	85.64	105.04 e	73.49	70.83	71.66	..
Iron and steel	7.12	9.53	14.73	18.37 e	14.32	12.33	12.31	..
Chem. and petrochemical	8.50	10.32	12.80	13.38 e	8.64	8.97	9.16	..
Non-ferrous metals	3.86	8.14	9.29	10.27 e	8.65	9.01	9.36	..
Non-metallic minerals	4.35	6.93	9.61	13.30 e	7.70	5.49	5.61	..
Transport equipment	1.49	2.70	4.01	4.41 e	2.85	2.98	3.47	..
Machinery	2.86	4.70	5.65	7.33 e	3.83	5.24	4.80	..
Mining and quarrying	0.99	1.67	1.30	1.56 e	1.21	1.38	1.52	..
Food and tobacco	2.35	5.77	8.97	11.51 e	10.47	9.32	10.90	..
Paper, pulp and printing	2.41	3.98	3.77	7.87 e	3.96	5.75	5.82	..
Wood and wood products	0.70	1.44	1.51	2.60 e	1.42	1.42	1.09	..
Construction	0.83	0.78	1.51	2.64 e	2.77	2.87	2.39	..
Textile and leather	2.63	3.82	4.20	4.29 e	2.16	1.85	1.67	..
Non specified/other	4.48	3.50	8.28	7.51 e	5.52	4.21	3.56	..
Transport	1.50	3.67	4.16	5.36 e	3.22	4.55	4.16	..
Rail Transport	1.50	2.00	2.47	3.65 e	3.06	2.35	2.08	..
Pipeline Transport	-	-	-	-	-	-	-	..
Road	-	-	-	-	-	-	-	..
Transport Non Specified	-	1.67	1.70	1.71 e	0.16	2.20	2.08	..
Commercial & publ. serv.	11.39	30.21	43.62	62.58 e	75.68	71.06	70.71	..
Residential	7.86	25.10	50.02	63.82 e	83.89	75.57	70.31	..
Agriculture	1.39	3.54	5.01	5.29 e	4.15	4.51	5.17	..
Fishing	-	-	-	-	-	-	-	..
Sector non specified	-	-	-	0.12 e	4.37	3.57	4.90	..

1. Electricity generation from main activity producer power plants and autoproducers .

2. Energy industry consumption = electricity consumed by transformation industries for heating, traction and lighting purposes;

excludes own use by power plant and electricity used for heat pumps, electric boilers and pumped storage.

Spain

Table 4a. Gross electricity production by source (TWh)

	1974	1990	2000	2010	2013	2014	2015e	74-00	00-15
Total plants gross production¹	80.86	151.92	224.47 e	301.53	285.63	278.75	280.48	4.0	1.5
Nuclear	7.22	54.27	62.21	61.99	56.73	57.31	57.28	8.6	-0.5
Hydro	31.35	26.18	31.81 e	45.51	41.05	42.97	31.16	0.1	-0.1
- Of which pumped storage	0.78	0.71	3.55	3.21	4.19	3.80	3.29	6.0	-0.5
Geothermal	-	-	-	-	-	-	-	-	-
Solar	-	0.01	0.02	7.19	13.10	13.67	13.88	-	55.8
Wind	-	0.01	4.73	44.27	55.65	52.01	49.34	-	16.9
Combustible fuels	42.29	71.45	125.71 e	142.41	119.11	112.79	128.83	4.3	0.2
- Coal	..	60.66 e	80.86	26.32	41.33	45.30	54.59	..	-2.6
- Oil	..	8.60 e	22.58 e	16.56	13.76	14.12	15.29	-	-2.6
- Natural gas	..	1.51	20.18	94.85	57.54	47.27	51.31	..	6.4
- Biofuels & waste	..	0.67	2.10 e	4.67	6.48	6.10	7.65	-	9.0
Other ²	-	-	-	0.16	..	-	-	-	-
Of which autoproducers	3.49	4.47	28.45 e	38.77	38.13	32.11	..	8.4	-
Nuclear	-	-	-	-	-	-	..	-	..
Hydro	1.41	1.32	0.83 e	0.85	0.94	1.06	..	-2.0	-
- Of which pumped storage	-	-	-	-	-	-	..	-	..
Geothermal	-	-	-	-	-	-	..	-	..
Solar	-	-	0.01	0.03	0.03	0.03	..	-	..
Wind	-	-	0.00	0.02	0.01	0.01	..	-	..
Combustible fuels	2.09	3.15	27.61 e	37.72	37.15	31.01	..	10.4	-
- Coal	..	0.68	1.29	0.79	0.78	0.73
- Oil	..	1.09 e	8.60 e	3.46	1.36	2.73	..	-	-
- Natural gas	..	0.76	16.56	29.49	31.13	23.97
- Biofuels & waste	..	0.62	1.16 e	3.99	3.87	3.57	..	-	-
Other ²	-	-	-	0.16	..	-	..	-	..

Table 4b. Gross heat production by source (PJ)

	1974	1990	2000	2010	2013	2014	2015e	74-00	00-15
Total plants heat generation³	-	0.18	-	-	-	-	-	-	-
Nuclear	-	-	-	-	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-	-	-
Combustible fuels	-	0.18	-	-	-	-	-	-	-
- Coal	..	-	-	-	-	-	-	..	-
- Oil	..	0.18 e	-	-	-	-	-	..	-
- Natural gas	..	-	-	-	-	-	-	..	-
- Biofuels & waste	..	-	-	-	-	-	-	..	-
Chemical processes	-	-	-	-	-	-	-	-	-
Heat pumps	-	-	-	-	-	-	-	-	-
Electric boilers	-	-	-	-	-	-	-	-	-
Other sources	-	-	-	-	-	-	-	-	-
Of which Autoproducers	-	-	-	-	-	-	..	-	..
Nuclear	-	-	-	-	-	-	..	-	..
Geothermal	-	-	-	-	-	-	..	-	..
Combustible fuels	-	-	-	-	-	-	..	-	..
- Coal	..	-	-	-	-	-
- Oil	..	-	-	-	-	-
- Natural gas	..	-	-	-	-	-
- Biofuels & waste	..	-	-	-	-	-
Chemical processes	-	-	-	-	-	-	..	-	..
Heat pumps	-	-	-	-	-	-	..	-	..
Electric boilers	-	-	-	-	-	-	..	-	..
Other sources	-	-	-	-	-	-	..	-	..

1. Electricity generated from main activity producer power plants and autoproducers.

2. Includes wave, ocean and other sources (e.g. fuel cells, electricity from chemical heat).

3. Total heat generation = gross production of heat from main activity producer + heat sold in autoproducers.

Spain

Table 5. Net electricity production by autoproducers (GWh)

	1974	1990	2000	2010	2012	2013	2014	74-00	00-14
Total	1905	4227 e	27383	37327	39951	36581	30802	10.8	0.8
Total energy	-	922 e	3328	4067	4441	4933	4054	-	1.4
Coal mines	-	-	24 e	251	8	415	341	-	20.9
Oil and gas extraction	-	-	120	-	-	-	-	-	-
Patent fuel plants	-	-	69 e	21	22	19	16	-	-9.9
Coke ovens	-	-	-	-	-	-	-	-	-
Gas works	-	-	-	-	-	-	-	-	-
BKB	-	-	3115 e	3724	4404	4109	3319	-	0.5
Oil refineries	-	-	-	-	-	-	-	-	-
Energy non specified/other	-	-	-	-	-	-	-	-	-
Total industry	1905	3305 e	20507	21877	23765	21506	17894	9.6	-1.0
Iron and steel	625	331 e	-	139	97	96	70	-	-
Chemical and petrochemical	247	1565 e	3901	3593	3389	3098	2563	11.2	-3.0
Non-ferrous metals	253	274 e	229	667	681	589	484	-0.4	5.5
Non-metallic minerals	-	-	2650	1843	2046	1803	1481	-	-4.1
Transport equipment	4	-	482	453	432	378	310	20.2	-3.1
Machinery	4	-	293	309	325	814	753	18.0	7.0
Mining and quarrying	25	-	1440	602	608	536	440	16.9	-8.1
Food and tobacco	135	279 e	3545 e	4607	4818	3776	3130	13.4	-0.9
Pulp and printing	387	856 e	4078	7218	8119	7690	6396	9.5	3.3
Wood and wood products	-	-	1629	628	703	620	528	-	-7.7
Construction	-	-	63	224	237	275	232	-	9.8
Textile and leather	225	-	2002	980	1609	1429	1177	8.8	-3.7
Non specified/other industries	-	-	195	614	701	402	330	-	3.8
Total transport	-	-	86	3	3	7	5	-	-18.4
Rail	-	-	-	3	3	3	2	-	-
Pipeline	-	-	-	-	-	-	-	-	-
Transport non specified	-	-	86	-	-	4	3	-	-21.3
Other	-	-	3462 e	11380	11742	10135	8849	-	6.9
Commerce and pub. services	-	-	974 e	9288	9869	8798	7745	-	16.0
Residential	-	-	-	-	-	-	-	-	-
Agriculture	-	-	275	1234	1533	1168	965	-	9.4
Fishing	-	-	-	-	-	-	-	-	-
Sector non specified	-	-	2213 e	858	340	169	139	-	-17.9

Notes: Data reported in this table prior to 1990 may refer to combustible fuels only.

Spain

Table 6a. Electricity production from combustible fuels in electricity plants¹

	1990	2000	2005	2010	2012	2013	2014	90-00	00-14
Steam coal									
Fuel input (1000 t)	22881 e	32492	31595 e	10894	24728	17635	19775	3.6	-3.5
Fuel input (TJ)	454995 e	702155	677954 e	243653	535723	376769	414871	4.4	-3.7
Electricity production (GWh)	47300 e	72427	73239 e	25081	54782	39658	43539	4.4	-3.6
Lignite									
Fuel input (1000 t)	16579 e	8403	7719	-	-	-	-	-6.6	-
Fuel input (TJ)	122822 e	60732	59105	-	-	-	-	-6.8	-
Electricity production (GWh)	11794 e	6210	5417	-	-	-	-	-6.2	-
Coal manufactured gases²									
Fuel input (TJ)	5984 e	16429 e	13664 e	8200	7618	10425	12664	10.6	-1.8
Electricity production (GWh)	632	1704	1576 e	841	793	1176	1258	10.4	-2.1
Other coal products³									
Fuel input (1000 t)	316	-	-	-	-	-	-	-	-
Fuel input (TJ)	6389 e	-	-	-	-	-	-	-	-
Electricity production (GWh)	262	-	-	-	-	-	-	-	-
Oil and petroleum products									
Fuel input (1000 t)	1566 e	3562 e	4647	3059	3077	2583	2705	8.6	-1.9
Fuel input (TJ)	63627 e	143924 e	188456	118332	116923	101278	109823	8.5	-1.9
Electricity production (GWh)	6196 e	14147 e	17453	13102	12909	12401	11391	8.6	-1.5
Natural gas²									
Fuel input (TJ)	8246	34058	369025	529106	350237	213062	186923	15.2	12.9
Electricity production (GWh)	774	3660	53563	70975	45842	26824	23708	16.8	14.3
Solid biofuels									
Fuel input (TJ)	180	2622	17888	14596	17330	40266	40099	30.7	21.5
Electricity production (GWh)	17	176	874 e	1342	1587	2905	2856	26.3	22.0
Industrial waste									
Fuel input (TJ)	353	3134 e	24.4	-
Electricity production (GWh)	50	274	18.5	..
Municipal waste									
Fuel input (TJ)	-	9605	15849 e	14586	14710	16724	17098	-	4.2
Electricity production (GWh)	-	667	902 e	1318	1430	1364	1372	-	5.3
Biogases and liquid biofuels									
Fuel input (TJ)	-	4344	11215	7369	8100	9027	7621	-	4.1
Electricity production (GWh)	-	304 e	571 e	696	765	784	738	-	6.5
Total combustible fuels									
Electricity production (GWh)	67025 e	99569 e	153595 e	113355	118108	85112	84862	4.0	-1.1

1. Excludes CHP plants.

2. Coal manufactured gases and natural gas are expressed on a gross calorific value basis.

3. Includes Coking coal as well as peat and peat products, patent fuels, BKB and shale oil

Spain

**Table 6b. Electricity and heat produced for sale from combustible fuels
in combined heat and power plants (CHP plants)**

	1990	2000	2005	2010	2012	2013	2014	90-00	00-14
Steam coal									
Fuel input (1000 t)	83	127	80	73	71	68	52	4.3	-6.2
Fuel input (TJ)	2175	2771	1932	1808	1783	1464	1230	2.5	-5.6
Electricity production (GWh)	381	457	397	253	292	283	268	1.8	-3.7
CHP Heat production (TJ)	-	-	-	-	-	-	-	-	-
Lignite									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
CHP Heat production (TJ)	-	-	-	-	-	-	-	-	-
Coal manufactured gases¹									
Fuel input (TJ)	3152	598	1251	1081	891	1934	2084	-15.3	9.3
Electricity production (GWh)	294	60	138	148	124	215	230	-14.7	10.1
CHP Heat production (TJ)	-	-	-	-	-	-	-	-	-
Other coal products²									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
CHP Heat production (TJ)	-	-	-	-	-	-	-	-	-
Petroleum products									
Fuel input (1000 t)	709 e	1069 e	892	546	425	295	503	4.2	-5.2
Fuel input (TJ)	28612 e	43249 e	35838	22006	17019	11841	18296	4.2	-6.0
Electricity production (GWh)	2408 e	8431 e	6967	3460	2412	1362	2730	13.4	-7.7
CHP Heat production (TJ)	181 e	-	-	-	-	-	-	-	-
Natural gas¹									
Fuel input (TJ)	4476	90833	133298	151076	167648	182620	136874	35.1	3.0
Electricity production (GWh)	735	16518	25448	23876	27466	30712	23565	36.5	2.6
CHP Heat production (TJ)	-	-	-	-	-	-	-	-	-
Solid Biofuels									
Fuel input (TJ)	2165	9260	12744	12553	19154	10561	8000	15.6	-1.0
Electricity production (GWh)	445	665	705	1166	1809	1238	965	4.1	2.7
CHP Heat production (TJ)	-	-	-	-	-	-	-	-	-
Industrial waste									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
CHP Heat production (TJ)	-	-	-	-	-	-	-	-	-
Municipal waste									
Fuel input (TJ)	3325	-	-	-	-	-	-	-	-
Electricity production (GWh)	160	-	-	-	-	-	-	-	-
CHP Heat production (TJ)	-	-	-	-	-	-	-	-	-
Biogases and liquid biofuels									
Fuel input (TJ)	-	98	374	1193	846	1210	1116	-	19.0
Electricity production (GWh)	-	14	52 e	152	101	189	169	-	19.5
CHP Heat production (TJ)	-	-	-	-	-	-	-	-	-
Total combustible fuels									
Electricity production (GWh)	4423 e	26145 e	33707 e	29055	32204	33999	27927	19.4	0.5
CHP Heat production (TJ)	181 e	-	-	-	-	-	-	-	-

1. Coal manufactured gases and natural gas are expressed on a gross calorific value basis.

2. Includes Coking coal as well as peat and peat products, patent fuels, BKB and shale oil

Spain

Table 7. Net maximum electricity generating capacity on 31 December (GW)

	1974	1990	2000	2005	2010	2012	2013	2014
Total capacity¹	23.36	42.84	53.92	76.57	101.79	105.17	106.00	106.47
Nuclear	1.09	6.97	7.50	7.58 e	7.45	7.45	6.98	7.40
Hydro	11.65	15.66	17.96	18.22	18.54	18.55	19.19	19.22
<i>of which: pumped storage</i>	-	5.06	5.35	5.41	5.26	5.26	5.11	5.14
Geothermal	-	-	-	-	-	-	-	-
Solar PV	-	-	0.01	0.06	3.92	4.65	4.79	4.79
Solar thermal	-	-	-	-	0.73	2.00	2.30	2.30
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	-	2.21	9.92	20.69	22.79	22.96	22.98
Other (e.g. fuel cells)	-	-	-	-	-	-	-	-
Combustible fuels	10.62	20.21	26.24	40.80 e	50.46	49.74	49.79	49.79
<i>of which⁽²⁾:</i>								
<i>Single-fired:</i>								
Coal and Coal products	2.97	9.90	11.06
Liquid fuels	6.64	7.65	8.14
Natural gas	-	0.06	3.16
Biofuels & waste	0.07	0.10	0.46
<i>Multi-fired:</i>								
Solid / liquid	0.93	0.50	0.30
Solid / natural gas	-	0.02
Liquid / natural gas	-	1.98	3.12
Solid / liquid / gas	-	-
<i>Type of generation</i>								
Steam	-	18.46	21.10
Internal combustion	-	0.38	2.43
Gas turbine	-	0.44	1.54
Combined cycle	-	0.94	1.18
Other	-	-	-	-	-	-	-	-
<i>Peak load</i>	..	25.16	33.24	43.38	44.12	43.01	39.96	38.67
Of which Autoproducers	1.03	0.75	4.74
Nuclear	-	-	-	-	-	-	-	-
Hydro	0.44
<i>of which: pumped storage</i>	-	-	-	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-	-
Solar PV	-	-	-	-	-	-	-	-
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	-	-	-	-	-	-	-
Other (e.g. fuel cells)	-	-	-	-	-	-	-	-
Combustible fuels	0.60	0.75	4.74

1. Sum of available capacity figures

2. Breakdown of electrical capacity by type of fuel are shown in the individual country chapters.

Spain

Table 8. Capacity factors (%)

	1974	1990	2000	2005	2010	2012	2013	2014
Total plants¹	39.5	40.5	47.5 e	43.8 e	33.8	32.3	30.8	29.9
Nuclear	75.6	88.8	94.6	86.7 e	95.0	94.2	92.7	88.4
Hydro	30.7	19.1	20.2 e	14.4 e	28.0	14.9	24.4	25.5
<i>of which: pumped storage</i>	-	3.4	16.8	21.8	15.0	16.8	19.5	17.7
Geothermal	-	-	-	-	-	-	-	-
Solar PV	-	22.8	17.1	7.8	18.7	20.1	19.9	19.6
Solar thermal	-	-	-	-	11.9	21.6	23.7	27.1
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	79.9	24.5	24.4 e	24.4	24.8	27.7	25.8
Other (e.g. fuel cells)	-	-	-	-	-	-	-	-
Combustible fuels	45.5	40.4	54.7 e	52.4 e	32.2	34.5	27.3	25.9
Of which autoproducers	38.6	68.5	68.5 e
Nuclear	-	-	-	-	-	-	-	-
Hydro	36.7	..	- e	- e
<i>of which: pumped storage</i>	-	-	-	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-	-
Solar PV	-	-	-	-	-	-	-	-
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	-	-	- e	-	-	-	-
Other (e.g. fuel cells)	-	-	-	-	-	-	-	-
Combustible fuels	39.9	48.2	66.5 e

1. The capacity factor is defined as: the annual gross electricity generation (in GWh) divided by the net capacity (in GW) times 365 (days/year) times 24 (hours/day)

Spain**Table 9a. Electricity imports by origin (GWh)**

	1974	1990	2000	2005	2010	2012	2013	2014
Total imports	664	3208	12268	10212	5206	7787	9887	12310
Total from OECD	664	3208	12267	10102	5172	7782	9886	12308
Austria	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-
Canada	-	-	-	-	-	-	-	-
Czech Republic	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-
France	369	1511	8500	7301	1983	4911	4937	5963
Germany	-	-	-	-	-	-	-	-
Greece	-	-	-	-	-	-	-	-
Hungary	-	-	-	-	-	-	-	-
Ireland	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-
Luxembourg	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-
Poland	-	-	-	-	-	-	-	-
Portugal	295	1697	3767	2801	3189	2871	4949	6345
Slovak Republic	-	-	-	-	-	-	-	-
Slovenia	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-
Switzerland	-	-	-	-	-	-	-	-
Turkey	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-
United States	-	-	-	-	-	-	-	-
Total from non-OECD	-	-	-	-	-	-	-	-
Albania	-	-	-	-	-	-	-	-
Azerbaijan	-	-	-	-	-	-	-	-
Belarus	-	-	-	-	-	-	-	-
Bulgaria	-	-	-	-	-	-	-	-
Croatia	-	-	-	-	-	-	-	-
F.Y.R. of Macedonia	-	-	-	-	-	-	-	-
Georgia	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-
Romania	-	-	-	-	-	-	-	-
Russian Federation	-	-	-	-	-	-	-	-
Serbia	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-
Turkmenistan	-	-	-	-	-	-	-	-
Ukraine	-	-	-	-	-	-	-	-
Non-specified/others	-	-	1	110	34	5	1	2

Spain

Table 9b. Electricity exports by destination (GWh)

	1974	1990	2000	2005	2010	2012	2013	2014
Total exports	1799	3628	7827	11555	13539	18986	16638	15716
Total to OECD	1773	3609	5293	10386	9337	13796	10963	9642
Austria	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-
Canada	-	-	-	-	-	-	-	-
Czech Republic	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-
France	1424	1875	595	756	3514	3028	3237	2395
Germany	-	-	-	-	-	-	-	-
Greece	-	-	-	-	-	-	-	-
Hungary	-	-	-	-	-	-	-	-
Ireland	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-
Luxembourg	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-
Poland	-	-	-	-	-	-	-	-
Portugal	349	1734	4698	9630	5823	10768	7726	7247
Slovak Republic	-	-	-	-	-	-	-	-
Slovenia	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-
Switzerland	-	-	-	-	-	-	-	-
Turkey	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-
United States	-	-	-	-	-	-	-	-
Total to non-OECD	-	-	-	-	-	-	-	-
Albania	-	-	-	-	-	-	-	-
Azerbaijan	-	-	-	-	-	-	-	-
Belarus	-	-	-	-	-	-	-	-
Bulgaria	-	-	-	-	-	-	-	-
Croatia	-	-	-	-	-	-	-	-
F.Y.R. of Macedonia	-	-	-	-	-	-	-	-
Georgia	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-
Romania	-	-	-	-	-	-	-	-
Russian Federation	-	-	-	-	-	-	-	-
Serbia	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-
Turkmenistan	-	-	-	-	-	-	-	-
Ukraine	-	-	-	-	-	-	-	-
Non-specified/others	26	19	2534	1169	4202	5190	5675	6074

Spain

Table 10a. Share of electricity in total final consumption (%)

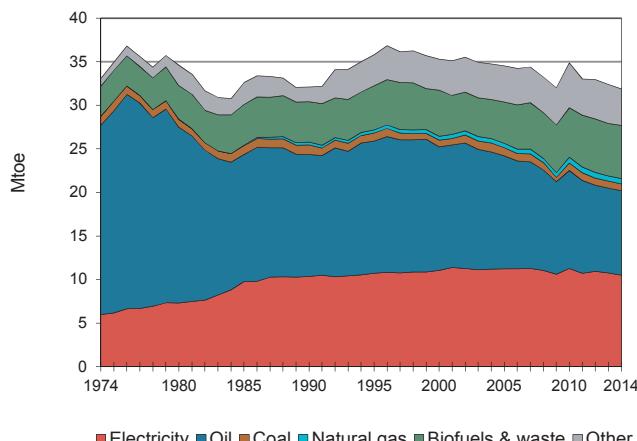
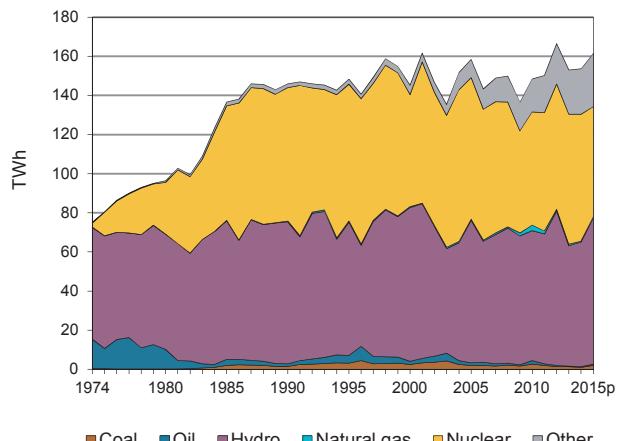
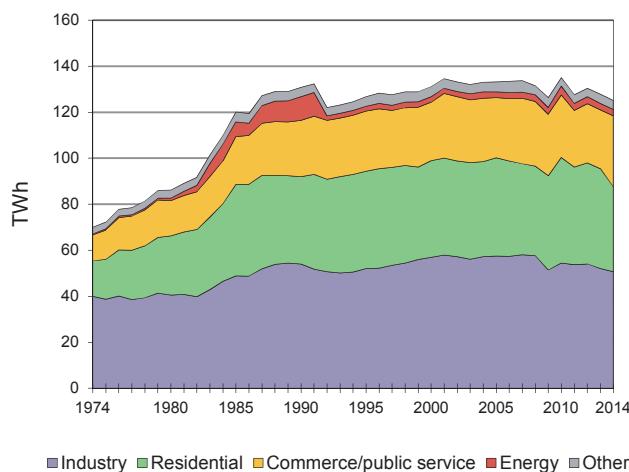
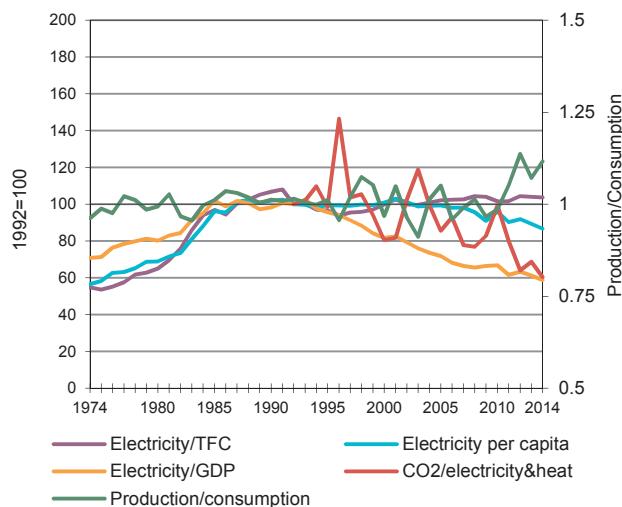
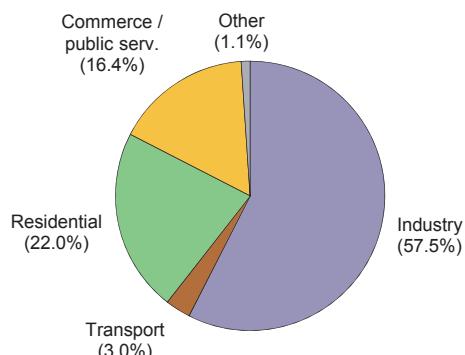
	1974	1990	2000	2005	2010	2012	2013	2014
Share of total final consumption	13.9	17.9	19.0	20.4	22.8	24.4	24.4	24.8
Industry	20.4	28.3	29.9	29.7	30.2	31.0	30.5	32.1
Iron and steel	14.9	28.7	38.9	40.4 e	50.0	49.8	45.3	52.7
Chem. and petrochemical	25.1	28.9	29.4	24.6 e	23.4	17.5	18.9	19.8
Non-ferrous metals	90.8	71.8	68.6	74.9 e	59.8	80.2	78.1	80.6
Non-metallic minerals	7.6	13.1	13.0	15.2 e	14.6	14.8	14.2	14.8
Transport equipment	43.1	44.6	37.2	45.4 e	52.6	51.3	61.1	64.6
Machinery	52.6	47.7	47.0	45.6 e	30.1	45.1	45.0	49.8
Mining and quarrying	29.7	53.1	31.7	28.6 e	39.6	35.4	27.7	29.3
Food and tobacco	13.7	29.8	30.2	34.4 e	40.8	39.4	36.8	41.2
Paper, pulp and printing	19.6	29.7	15.5	27.2 e	23.8	24.0	26.8	27.8
Wood and wood products	32.0	75.5	21.6	28.3 e	24.0	24.2	24.1	20.1
Construction	44.5	58.2	50.3	48.5 e	47.0	18.4	19.1	16.1
Textile and leather	27.5	38.6	30.0	37.6 e	42.8	43.6	47.0	44.6
Non specified/other	42.7	13.5	66.0	22.9 e	18.5	35.0	30.5	27.8
Transport	1.1	1.5	1.2	1.3	0.8	1.3	1.4	1.3
Rail Transport	28.1	44.6	30.1	30.7 e	29.4	26.4	71.6	69.3
Pipeline Transport	-	-	-	-	-	-	-	-
Road	-	-	-	-	-	-	-	-
Transport Non Specified	-	100.0	100.0	100.0 e	31.8	18.6	39.1	44.6
Other sectors	25.2	35.6	39.9	42.3	47.5	48.4	47.2	47.8
Commercial & publ. serv.	47.2	63.3	64.2	65.3 e	73.7	68.7	67.7	68.4
Residential	25.5	28.4	31.3	35.6 e	38.5	41.6	41.1	41.4
Agriculture	6.7	18.2	16.8	14.7 e	16.0	12.9	14.1	16.8
Fishing	-	-	-	-	-	-	-	-
Sector non specified	-	-	-	5.6 e	25.3	46.5	36.6	46.4

Table 10b. Share of heat in total final consumption (%)

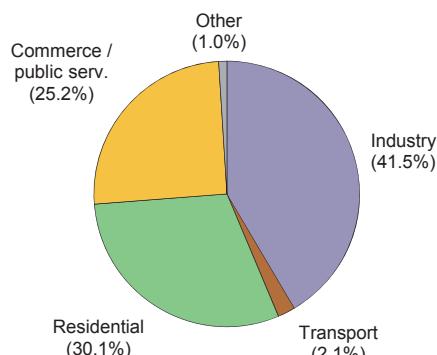
	1974	1990	2000	2005	2010	2012	2013	2014
Share of total final consumption	-	-	-	-	-	-	-	-
Industry	-	-	-	-	-	-	-	-
Iron and steel	-	-	-	-	-	-	-	-
Chem. and petrochemical	-	-	-	-	-	-	-	-
Non-ferrous metals	-	-	-	-	-	-	-	-
Non-metallic minerals	-	-	-	-	-	-	-	-
Transport equipment	-	-	-	-	-	-	-	-
Machinery	-	-	-	-	-	-	-	-
Mining and quarrying	-	-	-	-	-	-	-	-
Food and tobacco	-	-	-	-	-	-	-	-
Paper, pulp and printing	-	-	-	-	-	-	-	-
Wood and wood products	-	-	-	-	-	-	-	-
Construction	-	-	-	-	-	-	-	-
Textile and leather	-	-	-	-	-	-	-	-
Non specified/other	-	-	-	-	-	-	-	-
Transport	-	-	-	-	-	-	-	-
Other sectors	-	-	-	-	-	-	-	-
Commercial & publ. serv.	-	-	-	-	-	-	-	-
Residential	-	-	-	-	-	-	-	-
Agriculture	-	-	-	-	-	-	-	-
Fishing	-	-	-	-	-	-	-	-
Sector non specified	-	-	-	-	-	-	-	-

Source: IEA/OECD World Energy Balances.

Sweden

Figure 1. Total final consumption by fuel**Figure 2. Electricity generation by fuel****Figure 3. Electricity consumption by sector****Figure 4. Electricity indicators****Figure 5. Total final electricity consumption by sector****1974**

69.6 TWh

2014

122.2 TWh

Sweden**Table 1. Energy consumption, GDP and population**

	1974	1990	2000	2010	2013	2014	2015p	74-00	00-15
TPES (Mtoe)	36.81	47.20	47.56	50.90	49.41	48.16	50.00	1.0	0.3
GDP (billion 2005 USD)	235.80	321.07	396.53	488.38	506.16	517.63	538.83	2.0	2.1
TPES/GDP ¹	0.16	0.15	0.12	0.10	0.10	0.09	0.09	-1.0	-1.7
Population (millions)	8.16	8.56	8.87	9.38	9.60	9.70	9.77	0.3	0.6
TPES/population ²	4.51	5.51	5.36	5.43	5.15	4.97	5.12	0.7	-0.3
TPES/GDP (2005 = 100)	137	129	105	91	85	81	81	-1.0	-1.7
Ele.TFC/GDP(2005=100) ³	102	129	112	93	85	82	..	0.4	..
Ele.TFC/population ⁴	8530	14066	14514	13997	13027	12607	..	2.1	..
Elec. generated (TWh) ⁵	75.11	145.98	145.23	148.46	153.03	153.55	161.41	2.6	0.7

Source: IEA/OECD *World Energy Balances* and OECD *Main Economic Indicators*.**Table 2. Total primary energy supply (TPES) by source**

	1974	1990	2000	2010	2013	2014	2015p	74-00	00-15
TPES (Mtoe)	36.81	47.20	47.56	50.90	49.41	48.16	50.00	1.0	0.3
Coal	1.80	2.96	2.45	2.49	2.22	2.10	2.13	1.2	-0.9
Oil	25.75	14.30	13.57	13.92	11.89	11.59	10.72	-2.4	-1.6
Natural gas	-	0.58	0.78	1.47	0.96	0.79	0.72	-	-0.5
Biofuels & waste	3.54	5.51	8.26	11.49	11.53	11.40	15.68	3.3	4.4
Nuclear	0.54	17.77	14.94	15.07	17.32	16.91	14.66	13.7	-0.1
Geothermal	-	-	-	-	-	-	-	-	-
Solar, wind, tide ⁶	-	0.00	0.04	0.31	0.86	0.98	1.45	-	26.1
Hydro	4.92	6.24	6.76	5.71	5.28	5.48	6.40	1.2	-0.4
Net electricity imports ⁷	0.25	-0.15	0.40	0.18	-0.86	-1.34	-1.94	1.8	-
Heat	-	-	0.36	0.27	0.22	0.24	0.18	-	-4.5

Source: IEA/OECD *World Energy Balances*.

1. In units of toe/2005 thousand US dollars.
2. In units of toe/per capita.
3. Ele.TFC = electricity total final consumption.
4. In units of kWh/per capita.
5. Electricity generated = gross production - amount of electricity produced in pumped storage plants.
6. Includes wave, ocean and other (e.g. fuel cells).
7. Net Imports = total imports - total exports

Sweden

Table 3a. Summary electricity production and consumption¹ (TWh)

	1974	1990	2000	2005	2010	2013	2014	2015e
Gross production	75.13	146.51	145.27	158.44	148.56	153.17	153.66	161.44
- Own use by power plant	1.64	4.00	3.67	3.82	3.28	3.63	3.71	-
Net production	73.49	142.51	141.59	154.61	145.28	149.54	149.96	-
- Used for heat pumps	-	-	2.22	1.87	1.48	1.19	1.55	0.92
- Used for electric boilers	-	..	2.05	0.33	0.13	0.27	0.26	0.21
- Used for pumped storage	0.03	0.76	0.05	0.09	0.15	0.19	0.15	0.05
+ Imports	6.68	12.91	18.31	14.58	14.93	12.67	13.85	9.29
- Exports	3.74	14.68	13.63	21.97	12.85	22.68	29.48	31.89
Electrical energy supplied	76.40	139.99	141.95	144.93	145.60	137.89	132.38	..
- Transmission & distr. losses	6.37	9.21	10.82	11.71	10.59	10.00	7.33	..
- Statistical difference	-	0.04	-	-	-0.01	-	-	..
Total consumption	70.03	130.74	131.14	133.23	135.02	127.88	125.04	..
Energy industry consumption²	0.44	10.39	2.41	2.53	3.80	2.87	2.85	..
Coal Mines	-	-	-	-	-	-	-	..
Oil + Gas Extraction	-	-	-	-	-	-	-	..
Patent Fuel Plants	-	-	-	-	-	-	-	..
Coke Ovens	0.01	0.05	0.05	0.01	0.01	0.02	0.02	..
BKB plants	-	-	-	-	-	-	-	..
Gas Works	0.02	0.03	0.05	0.01	0.01	-	-	..
Blast Furnaces	-	-	-	-	-	-	-	..
Oil Refineries	0.22	0.66	0.87	0.83	0.96	0.85	0.89	..
Nuclear Industry	-	-	-	-	-	-	-	..
Coal Liquefaction Plants	-	-	-	-	-	-	-	..
LNG/Regasification Plants	-	-	-	-	-	-	-	..
Energy - Non Specified	0.20	9.65	1.44	1.68	2.83	2.00	1.94	..
Final consumption	69.59	120.35	128.73	130.70	131.22	125.02	122.19	..
Industry	40.02	53.96	56.94	57.56	54.39	52.01	50.73	..
Iron and steel	5.97	4.45	5.37	5.36	2.54	4.44	4.33	..
Chem. and petrochemical	5.50	6.66	5.42	6.64	4.91	4.62	4.48	..
Non-ferrous metals	2.27	2.73	2.80	3.27	2.40	3.11	2.91	..
Non-metallic minerals	1.33	1.45	1.17	1.05	1.05	0.94	0.96	..
Transport equipment	0.29	2.31	2.46	2.61	1.88	1.96	1.96	..
Machinery	3.75	4.91	1.89	1.75	4.00	3.48	3.65	..
Mining and quarrying	2.23	2.35	2.59	2.52	3.06	3.70	c	..
Food and tobacco	1.17	2.60	2.99	2.43	2.58	2.40	2.45	..
Paper, pulp and printing	13.53	20.62	23.56	23.10	24.86	21.66	c	..
Wood and wood products	1.16	1.98	2.33	2.20	2.23	1.84	1.88	..
Construction	0.67	0.49	0.66	0.80	1.65	1.12	1.08	..
Textile and leather	0.42	0.96	0.31	0.26	0.19	0.14	0.19	..
Non specified/other	1.75	2.46	5.39	5.59	3.05	2.62	26.84	..
Transport	2.12	2.47	3.19	2.82	2.40	2.75	2.62	..
Rail Transport	2.12	2.47	3.19	2.82	2.40	2.75	2.62	..
Pipeline Transport	-	-	-	-	-	-	-	..
Road	-	-	-	-	-	-	-	..
Transport Non Specified	-	-	-	-	-	-	-	..
Commercial & publ. serv.	15.32	38.10	42.02	42.66	45.98	43.50	36.82	..
Residential	11.39	24.36	25.38	26.14	27.19	25.50	30.83	..
Agriculture	0.73	1.46	1.19	1.52	1.26	1.24	1.20	..
Fishing	-	-	-	-	-	-	-	..
Sector non specified	0.02	-	-	-	-	-	-	..

1. Electricity generation from main activity producer power plants and autoproducers .

2. Energy industry consumption = electricity consumed by transformation industries for heating, traction and lighting purposes;

excludes own use by power plant and electricity used for heat pumps, electric boilers and pumped storage.

Sweden

Table 3b. Summary heat production and consumption¹ (TJ)

	1974	1990	2000	2005	2010	2013	2014	2015e
Gross production	37886	78134	157919	181066	224230	190148	179896	162909
- Own use by power plant	-	-	-	-	-	-	-	-
Net production	37886	78134	157919	181066	224230	190148	179896	-
- Used for electricity production	-	-	-	-	-	-	-	-
+ Imports	-	-	-	-	-	-	-	-
- Exports	-	-	-	-	-	-	-	-
Heat energy supplied	37886	78134	157919	181066	224230	190148	179896	..
- Transmission & distr. losses	1683	6720	9283	6311	8968	3582	5134	..
- Statistical difference	-	-	-	-	-	-	-	..
Total consumption	36203	71414	148636	174755	215262	186566	174762	..
Energy industry consumption²	-	-	-	-	-	-	-	..
Coal Mines	-	-	-	-	-	-	-	..
Oil + Gas Extraction	-	-	-	-	-	-	-	..
Patent Fuel Plants	-	-	-	-	-	-	-	..
Coke Ovens	-	-	-	-	-	-	-	..
BKB plants	-	-	-	-	-	-	-	..
Gas Works	-	-	-	-	-	-	-	..
Blast Furnaces	-	-	-	-	-	-	-	..
Oil Refineries	-	-	-	-	-	-	-	..
Nuclear Industry	-	-	-	-	-	-	-	..
Coal Liquefaction Plants	-	-	-	-	-	-	-	..
LNG/Regasification Plants	-	-	-	-	-	-	-	..
Energy - Non Specified	-	-	-	-	-	-	-	..
Final consumption	36203	71414	148636	174755	215262	186566	174762	..
Industry	-	6973	14410	15894	18796	19184	18648	..
Iron and steel	-	-	-	-	-	-	-	..
Chem. and petrochemical	-	-	-	-	-	-	-	..
Non-ferrous metals	-	-	-	-	-	-	-	..
Non-metallic minerals	-	-	-	-	-	-	-	..
Transport equipment	-	-	-	-	-	-	-	..
Machinery	-	-	-	-	-	-	-	..
Mining and quarrying	-	-	-	-	-	-	-	..
Food and tobacco	-	-	-	-	-	-	-	..
Paper, pulp and printing	-	-	-	-	-	-	-	..
Wood and wood products	-	-	-	-	-	-	-	..
Construction	-	-	-	-	-	-	-	..
Textile and leather	-	-	-	-	-	-	-	..
Non specified/other	-	6973	14410	15894	18796	19184	18648	..
Transport	-	-	-	-	-	-	-	..
Commercial & publ. serv.	-	20747	46817	53352	60777	56389	53336	..
Residential	-	43694	87109	105209	135389	110693	102478	..
Agriculture	-	-	300	300	300	300	300	..
Fishing	-	-	-	-	-	-	-	..
Sector non specified	36203	-	-	-	-	-	-	..

1. Heat generation from main activity producer power plants and autoproducers.

2. Energy industry consumption = electricity consumed by transformation industries for heating, traction and lighting purposes;

excludes own use by power plant and electricity used for heat pumps, electric boilers and pumped storage.

Sweden

Table 4a. Gross electricity production by source (TWh)

	1974	1990	2000	2010	2013	2014	2015e	74-00	00-15
Total plants gross production¹	75.13	146.51	145.27	148.56	153.17	153.66	161.44	2.6	0.7
Nuclear	2.05	68.19	57.32	57.83	66.46	64.88	56.25	13.7	-0.1
Hydro	57.29	73.03	78.62	66.50	61.50	63.87	74.48	1.2	-0.4
- Of which pumped storage	0.02	0.53	0.04	0.10	0.14	0.11	0.03	2.2	-0.4
Geothermal	-	-	-	-	-	-	-	-	-
Solar	-	-	0.00	0.01	0.04	0.05	0.10	-	36.1
Wind	-	0.01	0.46	3.50	9.84	11.23	16.62	-	27.1
Combustible fuels	15.79	5.29	8.87	20.72	15.34	13.63	13.99	-2.2	3.1
- Coal	..	1.59	2.54	2.68	1.35	0.99	2.01	..	-1.5
- Oil	..	1.30	1.53	1.77	0.41	0.30	0.68	..	-5.3
- Natural gas	..	0.40	0.46	2.88	0.84	0.41	0.83	..	4.0
- Biofuels & waste	..	2.01	4.34	13.40	12.74	11.93	10.47	..	6.0
Other ²	-	-	-	-	-	-	-	-	-
Of which autoproducers	-	7.20	4.21	6.61	5.85	5.80	..	-	..
Nuclear	-	-	-	-	-	-	..	-	..
Hydro	-	4.45	0.23	0.01	0.01	0.01	..	-	..
- Of which pumped storage	-	-	-	-	-	-	..	-	..
Geothermal	-	-	-	-	-	-	..	-	..
Solar	-	-	-	-	-	-	..	-	..
Wind	-	-	-	-	-	-	..	-	..
Combustible fuels	-	2.75	3.99	6.59	5.84	5.79	..	-	..
- Coal	..	0.08	0.27	0.52	0.04	0.08
- Oil	..	0.78	0.77	0.51	0.20	0.16
- Natural gas	..	0.09	0.07	0.10	0.06	0.06
- Biofuels & waste	..	1.80	2.88	5.47	5.55	5.49
Other ²	-	-	-	-	-	-	..	-	..

Table 4b. Gross heat production by source (PJ)

	1974	1990	2000	2010	2013	2014	2015e	74-00	00-15
Total plants heat generation³	37.89	78.13	157.92	224.23	190.15	179.90	162.91	5.6	0.2
Nuclear	-	-	-	-	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-	-	-
Combustible fuels	37.89	78.13	123.70	204.09	173.25	160.89	149.29	4.7	1.3
- Coal	..	34.90	15.46	19.98	17.44	13.98	10.90	..	-2.3
- Oil	..	12.37	9.90	14.98	4.45	3.02	2.71	..	-8.3
- Natural gas	..	6.33	7.80	18.79	9.86	5.23	3.50	..	-5.2
- Biofuels & waste	..	24.53	90.54	150.35	141.51	138.67	132.18	..	2.6
Chemical processes	-	-	-	-	-	-	-	-	-
Heat pumps	26.94	19.67	16.06	18.11	12.86	..	-4.8
Electric boilers	7.28	0.47	0.84	0.90	0.76	..	-14.0
Other sources	-	-	-	-	-	-	-	-	-
Of which Autoproducers	-	-	16.72	17.50	17.04	15.49	..	-	..
Nuclear	-	-	-	-	-	-	..	-	..
Geothermal	-	-	-	-	-	-	..	-	..
Combustible fuels	-	-	16.72	17.50	17.04	15.49	..	-	..
- Coal	..	-	-	-	-	-
- Oil	..	-	-	-	-	-
- Natural gas	..	-	-	-	-	-
- Biofuels & waste	..	-	16.72	17.50	17.04	15.49
Chemical processes	-	-	-	-	-	-	..	-	..
Heat pumps	-	-	-	-	-	-	..	-	..
Electric boilers	-	-	-	-	-	-	..	-	..
Other sources	-	-	-	-	-	-	..	-	..

1. Electricity generated from main activity producer power plants and autoproducers.

2. Includes wave, ocean and other sources (e.g. fuel cells, electricity from chemical heat).

3. Total heat generation = gross production of heat from main activity producer + heat sold in autoproducers.

Sweden

Table 5. Net electricity production by autoproducers (GWh)

	1974	1990	2000	2010	2012	2013	2014	74-00	00-14
Total	..	7036	4096	6432	6128	5650	5595	..	2.3
Total energy	..	-	-	-	-	-	-	..	-
Coal mines	..	-	-	-	-	-	-	..	-
Oil and gas extraction	..	-	-	-	-	-	-	..	-
Patent fuel plants	..	-	-	-	-	-	-	..	-
Coke ovens	..	-	-	-	-	-	-	..	-
Gas works	..	-	-	-	-	-	-	..	-
BKB	..	-	-	-	-	-	-	..	-
Oil refineries	..	-	-	-	-	-	-	..	-
Energy non specified/other	..	-	-	-	-	-	-	..	-
Total industry	..	7014	4096	6432	6128	5650	5595	..	2.3
Iron and steel	..	5	204	366	39	55	71	..	-7.3
Chemical and petrochemical	..	870	105	90	87	70	86	..	-1.4
Non-ferrous metals	..	6	-	-	-	-	-	..	-
Non-metallic minerals	..	-	-	-	-	-	-	..	-
Transport equipment	..	1	-	-	-	-	-	..	-
Machinery	..	13	-	-	-	-	-	..	-
Mining and quarrying	..	-	17	14	16	10	1	..	-18.3
Food and tobacco	..	93	61	43	39	36	32	..	-4.5
Pulp and printing	..	3834	3709	5919	5947	5479	5405	..	2.7
Wood and wood products	..	2155	-	-	-	-	-	..	-
Construction	..	-	-	-	-	-	-	..	-
Textile and leather	..	10	-	-	-	-	-	..	-
Non specified/other industries	..	27	-	-	-	-	-	..	-
Total transport	..	-	-	-	-	-	-	..	-
Rail	..	-	-	-	-	-	-	..	-
Pipeline	..	-	-	-	-	-	-	..	-
Transport non specified	..	-	-	-	-	-	-	..	-
Other	..	22	-	-	-	-	-	..	-
Commerce and pub. services	..	-	-	-	-	-	-	..	-
Residential	..	-	-	-	-	-	-	..	-
Agriculture	..	-	-	-	-	-	-	..	-
Fishing	..	-	-	-	-	-	-	..	-
Sector non specified	..	22	-	-	-	-	-	..	-

Notes: Data reported in this table prior to 1990 may refer to combustible fuels only.

Sweden

Table 6a. Electricity production from combustible fuels in electricity plants¹

	1990	2000	2005	2010	2012	2013	2014	90-00	00-14
Steam coal									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
Lignite									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
Coal manufactured gases²									
Fuel input (TJ)	466	2325	3081	-	-	-	-	17.4	-
Electricity production (GWh)	47	210	242	-	-	-	-	16.1	-
Other coal products³									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
Oil and petroleum products									
Fuel input (1000 t)	11	23	39	69	17	7	4	7.7	-11.7
Fuel input (TJ)	451	945	1689	2673	729	283	209	7.7	-10.2
Electricity production (GWh)	32	64	179	254	63	28	15	7.2	-9.8
Natural gas²									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
Solid biofuels									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
Industrial waste									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
Municipal waste									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
Biogases and liquid biofuels									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
Total combustible fuels									
Electricity production (GWh)	79	274	421	254	63	28	15	13.2	-18.7

1. Excludes CHP plants.

2. Coal manufactured gases and natural gas are expressed on a gross calorific value basis.

3. Includes Coking coal as well as peat and peat products, patent fuels, BKB and shale oil

Sweden

**Table 6b. Electricity and heat produced for sale from combustible fuels
in combined heat and power plants (CHP plants)**

	1990	2000	2005	2010	2012	2013	2014	90-00	00-14
Steam coal									
Fuel input (1000 t)	829	501	424	438	321	448	292	-4.9	-3.8
Fuel input (TJ)	22562	13955	11408	12920	8677	12309	7728	-4.7	-4.1
Electricity production (GWh)	1081	1636	648	1022	483	653	371	4.2	-10.1
CHP Heat production (TJ)	15376	5329	7152	7442	5608	7909	5102	-10.1	-0.3
Lignite									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
CHP Heat production (TJ)	-	-	-	-	-	-	-	-	-
Coal manufactured gases¹									
Fuel input (TJ)	4734	7153	9258	9697	7073	6459	7373	4.2	0.2
Electricity production (GWh)	405	620	515	905	413	363	408	4.4	-2.9
CHP Heat production (TJ)	2054	2600	5836	4277	4487	4057	4649	2.4	4.2
Other coal products²									
Fuel input (1000 t)	185	429	731	988	700	603	418	8.8	-0.2
Fuel input (TJ)	2405	4667	9270	11155	6963	6078	4327	6.9	-0.5
Electricity production (GWh)	56	70	521	748	393	329	215	2.3	8.3
CHP Heat production (TJ)	1922	3842	5835	6454	4477	3877	2828	7.2	-2.2
Petroleum products									
Fuel input (1000 t)	271	264	289	373	168	108	80	-0.3	-8.2
Fuel input (TJ)	11646	11076	12043	15979	7030	4513	3376	-0.5	-8.1
Electricity production (GWh)	1269	1469	1200	1520	585	383	285	1.5	-11.1
CHP Heat production (TJ)	5264	3878	5524	8077	3692	2280	1727	-3.0	-5.6
Natural gas¹									
Fuel input (TJ)	6066	9990	9193	32541	14942	14963	7695	5.1	-1.8
Electricity production (GWh)	395	462	585	2877	892	837	413	1.6	-0.8
CHP Heat production (TJ)	3645	6238	5516	17840	9394	9425	4900	5.5	-1.7
Solid Biofuels									
Fuel input (TJ)	12330	70998	105063	140000	131404	128628	121842	19.1	3.9
Electricity production (GWh)	1902	3970	6848	10260	10507	9609	9007	7.6	6.0
CHP Heat production (TJ)	3845	45738	60282	74500	68166	67330	65393	28.1	2.6
Industrial waste									
Fuel input (TJ)	-	1039	1456	868	1283	1580	1360	-	1.9
Electricity production (GWh)	-	101	81	61	152	158	145	-	2.6
CHP Heat production (TJ)	-	489	920	527	474	698	570	-	1.1
Municipal waste									
Fuel input (TJ)	5560	14368	23566	43800	49735	53494	56454	10.0	10.3
Electricity production (GWh)	103	239	1309	2860	2770	2837	2710	8.8	18.9
CHP Heat production (TJ)	4673	10971	14885	26341	32145	34372	37271	8.9	9.1
Biogases and liquid biofuels									
Fuel input (TJ)	-	823	2126	3382	427	2553	1169	-	2.5
Electricity production (GWh)	-	32	119	216	25	139	63	-	5.0
CHP Heat production (TJ)	-	589	1334	1633	269	1617	741	-	1.7
Total combustible fuels									
Electricity production (GWh)	5211	8599	11826	20469	16220	15308	13617	5.1	3.3
CHP Heat production (TJ)	36779	79674	107284	147091	128712	131565	123181	8.0	3.2

1. Coal manufactured gases and natural gas are expressed on a gross calorific value basis.

2. Includes Coking coal as well as peat and peat products, patent fuels, BKB and shale oil

Sweden**Table 6c. Heat produced for sale from combustible fuels in heat plants¹**

	1990	2000	2005	2010	2012	2013	2014	90-00	00-14
Steam coal									
Fuel input (1000 t)	357	1	-	-	-	-	-	-44.4	-
Fuel input (TJ)	9711	30	-	-	-	-	-	-43.9	-
Heat production (TJ)	8529	26	-	-	-	-	-	-44.0	-
Lignite									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Heat production (TJ)	-	-	-	-	-	-	-	-	-
Coal manufactured gases²									
Fuel input (TJ)	655	201	159	600	422	456	404	-11.1	5.1
Heat production (TJ)	558	179	132	454	361	392	349	-10.7	4.9
Other coal products³									
Fuel input (1000 t)	629	334	258	143	113	141	120	-6.1	-7.1
Fuel input (TJ)	7548	3983	3010	1663	1117	1402	1214	-6.2	-8.1
Heat production (TJ)	6462	3485	2723	1350	955	1205	1051	-6.0	-8.2
Petroleum products									
Fuel input (1000 t)	190	161	131	192	77	60	35	-1.6	-10.3
Fuel input (TJ)	8253	6888	5456	7866	3321	2522	1489	-1.8	-10.4
Heat production (TJ)	7108	6024	4934	6898	2729	2168	1289	-1.6	-10.4
Natural gas²									
Fuel input (TJ)	3214	1876	1321	1263	796	503	375	-5.2	-10.9
Heat production (TJ)	2682	1562	1075	951	681	432	325	-5.3	-10.6
Solid biofuels									
Fuel input (TJ)	9509	30283	35735	39550	39108	36298	34628	12.3	1.0
Heat production (TJ)	8141	26592	32403	35000	33563	31205	29976	12.6	0.9
Industrial waste									
Fuel input (TJ)	-	22	247	-	-	-	-	-	-
Heat production (TJ)	-	19	224	-	-	-	-	-	-
Municipal waste									
Fuel input (TJ)	9080	6501	7251	8000	3963	3739	3399	-3.3	-4.5
Heat production (TJ)	7875	5688	6558	6850	3390	3214	2942	-3.2	-4.6
Biogases and liquid biofuels									
Fuel input (TJ)	-	519	2606	7750	5129	3574	2054	-	10.3
Heat production (TJ)	-	453	2273	5498	4388	3072	1778	-	10.3
Total combustible fuels									
Heat production (TJ)	41355	44028	50322	57001	46067	41688	37710	0.6	-1.1

1. Excludes CHP plants

2. Coal manufactured gases and natural gas are expressed on a gross calorific value basis.

3. Includes Coking coal as well as peat and peat products, patent fuels, BKB and shale oil

Sweden

Table 7. Net maximum electricity generating capacity on 31 December (GW)

	1974	1990	2000	2005	2010	2012	2013	2014
Total capacity¹	20.77	34.19	33.72	33.39	36.45	37.84	37.92	38.74
Nuclear	1.06	9.97	9.46	9.47	8.98	9.44	9.41	9.51
Hydro	12.31	16.33	16.53	16.35	16.73	16.41	16.49	16.00
<i>of which: pumped storage</i>	-	0.43	0.02	0.04	0.11	0.10	0.10	0.10
Geothermal	-	-	-	-	-	-	-	-
Solar PV	-	-	-	-	0.01	0.02	0.04	0.06
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	0.01	0.21	0.49	2.02	3.61	4.19	5.10
Other (e.g. fuel cells)	-	-	-	-	-	-	-	-
Combustible fuels	7.39	7.88	7.53	7.08	8.72	8.36	7.78	8.08
<i>of which⁽²⁾:</i>								
<i>Single-fired:</i>								
Coal and Coal products	-	-	0.55	0.62
Liquid fuels	7.39	3.71	2.62	2.72
Natural gas	-	0.10	0.77	0.90
Biofuels & waste	-	0.28	3.13	2.94
<i>Multi-fired:</i>								
Solid / liquid	-	2.65	0.58	0.90
Solid / natural gas	-	0.04	c
Liquid / natural gas	-	0.23	0.13	c
Solid / liquid / gas	-	0.07	c
<u>Type of generation</u>								
Steam	-	6.17	5.34	5.32	6.67	6.81	5.07	5.36
Internal combustion	-	0.02	0.08	0.05	0.12	0.03	0.03	-
Gas turbine	-	1.69	1.93	1.66	1.62	1.22	1.83	1.82
Combined cycle	-	-	0.18	0.04	0.31	0.31	0.85	0.90
Other	-	-	-	-	-	-	-	-
<u>Peak load</u>	..	23.30	26.00	25.80	26.20	26.20	26.75	24.75
Of which Autoproducers	-	1.78	1.01	0.99	1.12	1.24	1.20	0.01
Nuclear	-	-	-	-	-	-	-	-
Hydro	-	0.94	0.06	-	-	-	0.01	0.01
<i>of which: pumped storage</i>	-	-	-	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-	-
Solar PV	-	-	-	-	-	-	-	-
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	-	-	-	-	-	-	-
Other (e.g. fuel cells)	-	-	-	-	-	-	-	-
Combustible fuels	-	0.84	0.95	0.98	1.12	1.24	1.19	c

1. Sum of available capacity figures

2. Breakdown of electrical capacity by type of fuel are shown in the individual country chapters.

Sweden

Table 8. Capacity factors (%)

	1974	1990	2000	2005	2010	2012	2013	2014
Total plants¹	41.3	48.9	49.2	54.2	46.5	50.2	46.1	45.3
Nuclear	22.1	78.1	69.2	87.2	73.5	77.5	80.6	77.9
Hydro	53.1	51.1	54.3	50.9	45.4	55.0	42.6	45.6
<i>of which: pumped storage</i>	-	14.2	21.0	18.9	10.9	14.5	15.6	12.5
Geothermal	-	-	-	-	-	-	-	-
Solar PV	-	-	3.8	5.7	9.3	9.0	9.3	8.9
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	8.6	25.0	21.7	19.8	22.7	26.8	25.2
Other (e.g. fuel cells)	-	-	-	-	-	-	-	-
Combustible fuels	24.4	7.7	13.5	19.8	27.1	22.2	22.5	19.3
Of which autoproducers	-	46.2	47.6	57.4	67.3	58.4	55.6	7352.9
Nuclear	-	-	-	-	-	-	-	-
Hydro	-	54.1	45.9	41.9	53.3	64.7	12.7	15.2
<i>of which: pumped storage</i>	-	-	-	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-	-
Solar PV	-	-	-	-	-	-	-	-
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	-	-	-	-	-	-	-
Other (e.g. fuel cells)	-	-	-	-	-	-	-	-
Combustible fuels	-	37.4	47.7	57.4	67.4	58.4	55.9	c

1. The capacity factor is defined as: the annual gross electricity generation (in GWh) divided by the net capacity (in GW) times 365 (days/year) times 24 (hours/day)

Sweden**Table 9a. Electricity imports by origin (GWh)**

	1974	1990	2000	2005	2010	2012	2013	2014
Total imports	6681	12909	18308	14576	14931	11682	12674	13852
Total from OECD	6681	12909	18308	14576	14931	11682	12674	13852
Austria	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-
Canada	-	-	-	-	-	-	-	-
Czech Republic	-	-	-	-	-	-	-	-
Denmark	291	219	1619	761	4703	1316	3806	3153
Estonia	-	-	-	-	-	-	-	-
Finland	495	360	830	1393	4563	23	204	-
France	-	-	-	-	-	-	-	-
Germany	-	-	83	423	2288	259	998	736
Greece	-	-	-	-	-	-	-	-
Hungary	-	-	-	-	-	-	-	-
Ireland	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-
Luxembourg	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-
Norway	5895	12330	15723	10817	2883	9955	6904	9856
Poland	-	-	53	1182	494	129	762	107
Portugal	-	-	-	-	-	-	-	-
Slovak Republic	-	-	-	-	-	-	-	-
Slovenia	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-
Switzerland	-	-	-	-	-	-	-	-
Turkey	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-
United States	-	-	-	-	-	-	-	-
Total from non-OECD	-	-	-	-	-	-	-	-
Albania	-	-	-	-	-	-	-	-
Azerbaijan	-	-	-	-	-	-	-	-
Belarus	-	-	-	-	-	-	-	-
Bulgaria	-	-	-	-	-	-	-	-
Croatia	-	-	-	-	-	-	-	-
F.Y.R. of Macedonia	-	-	-	-	-	-	-	-
Georgia	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-
Romania	-	-	-	-	-	-	-	-
Russian Federation	-	-	-	-	-	-	-	-
Serbia	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-
Turkmenistan	-	-	-	-	-	-	-	-
Ukraine	-	-	-	-	-	-	-	-
Non-specified/others	-	-	-	-	-	-	-	-

Sweden**Table 9b. Electricity exports by destination (GWh)**

	1974	1990	2000	2005	2010	2012	2013	2014
Total exports	3742	14677	13630	21968	12853	31255	22676	29475
Total to OECD	3742	14677	13630	21968	12853	31255	22676	29475
Austria	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-
Canada	-	-	-	-	-	-	-	-
Czech Republic	-	-	-	-	-	-	-	-
Denmark	433	7921	3392	7690	2465	8829	2838	4146
Estonia	-	-	-	-	-	-	-	-
Finland	2979	6356	8234	7193	1911	14371	12293	18087
France	-	-	-	-	-	-	-	-
Germany	-	-	664	3433	1011	2943	1072	1798
Greece	-	-	-	-	-	-	-	-
Hungary	-	-	-	-	-	-	-	-
Ireland	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-
Luxembourg	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-
Norway	330	400	915	2835	6706	2440	5458	2353
Poland	-	-	425	817	760	2672	1015	3091
Portugal	-	-	-	-	-	-	-	-
Slovak Republic	-	-	-	-	-	-	-	-
Slovenia	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-
Switzerland	-	-	-	-	-	-	-	-
Turkey	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-
United States	-	-	-	-	-	-	-	-
Total to non-OECD	-	-	-	-	-	-	-	-
Albania	-	-	-	-	-	-	-	-
Azerbaijan	-	-	-	-	-	-	-	-
Belarus	-	-	-	-	-	-	-	-
Bulgaria	-	-	-	-	-	-	-	-
Croatia	-	-	-	-	-	-	-	-
F.Y.R. of Macedonia	-	-	-	-	-	-	-	-
Georgia	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-
Romania	-	-	-	-	-	-	-	-
Russian Federation	-	-	-	-	-	-	-	-
Serbia	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-
Turkmenistan	-	-	-	-	-	-	-	-
Ukraine	-	-	-	-	-	-	-	-
Non-specified/others	-	-	-	-	-	-	-	-

Sweden**Table 10a. Share of electricity in total final consumption (%)**

	1974	1990	2000	2005	2010	2012	2013	2014
Share of total final consumption	18.1	32.2	31.4	32.5	32.4	33.2	33.2	33.0
Industry	27.0	39.1	35.8	41.4	40.1	41.5	40.5	40.6
Iron and steel	26.4	36.0	39.5	33.4	21.1	35.8	33.8	34.1
Chem. and petrochemical	57.5	46.8	22.9	57.9	74.4	70.9	71.3	61.4
Non-ferrous metals	63.9	72.1	72.7	82.9	75.3	80.8	81.2	79.2
Non-metallic minerals	10.4	19.8	20.3	20.4	21.1	20.6	25.3	26.6
Transport equipment	9.5	79.8	76.6	72.1	82.8	84.9	83.7	86.2
Machinery	43.6	60.0	56.8	53.8	78.6	77.2	87.1	88.7
Mining and quarrying	42.0	59.1	67.3	59.9	62.2	61.3	64.9	c
Food and tobacco	17.6	41.5	49.7	47.7	53.2	53.1	54.9	59.4
Paper, pulp and printing	21.5	33.3	33.8	35.4	34.0	33.5	31.9	c
Wood and wood products	15.3	21.9	18.5	28.8	32.6	32.6	29.2	30.7
Construction	100.0	97.2	99.2	99.5	99.7	99.6	99.6	100.0
Textile and leather	20.1	66.4	56.0	44.8	52.4	62.0	61.4	76.5
Non specified/other	56.0	41.4	44.0	46.0	31.6	34.2	28.3	82.3
Transport	3.5	3.1	3.7	3.1	2.6	3.1	3.2	2.9
Rail Transport	65.4	84.3	91.8	98.4	99.5	99.1	99.6	99.1
Pipeline Transport	-	-	-	-	-	-	-	-
Road	-	-	-	-	-	-	-	-
Transport Non Specified	-	-	-	-	-	-	-	-
Other sectors	18.5	48.1	47.2	48.7	48.2	49.0	51.2	51.8
Commercial & publ. serv.	98.0	52.3	49.6	52.4	51.4	54.2	55.4	60.0
Residential	14.8	50.1	49.5	50.2	49.2	48.2	50.0	47.7
Agriculture	15.1	15.5	14.4	17.5	16.8	17.1	31.9	28.7
Fishing	-	-	-	-	-	-	-	-
Sector non specified	0.1	-	-	-	-	-	-	-

Table 10b. Share of heat in total final consumption (%)

	1974	1990	2000	2005	2010	2012	2013	2014
Share of total final consumption	2.6	5.3	10.1	12.1	14.7	13.7	13.8	13.1
Industry	-	1.4	2.5	3.2	3.9	3.6	4.2	4.1
Iron and steel	-	-	-	-	-	-	-	-
Chem. and petrochemical	-	-	-	-	-	-	-	-
Non-ferrous metals	-	-	-	-	-	-	-	-
Non-metallic minerals	-	-	-	-	-	-	-	-
Transport equipment	-	-	-	-	-	-	-	-
Machinery	-	-	-	-	-	-	-	-
Mining and quarrying	-	-	-	-	-	-	-	-
Food and tobacco	-	-	-	-	-	-	-	-
Paper, pulp and printing	-	-	-	-	-	-	-	-
Wood and wood products	-	-	-	-	-	-	-	-
Construction	-	-	-	-	-	-	-	-
Textile and leather	-	-	-	-	-	-	-	-
Non specified/other	-	32.6	32.6	36.4	54.0	49.1	57.5	15.9
Transport	-	-	-	-	-	-	-	-
Other sectors	6.8	13.5	25.6	30.6	35.4	33.1	33.9	32.6
Commercial & publ. serv.	-	12.4	25.4	29.7	31.9	33.1	34.0	28.8
Residential	-	16.0	28.5	34.4	40.2	34.9	35.3	36.9
Agriculture	-	-	1.0	1.0	1.1	1.6	2.1	2.0
Fishing	-	-	-	-	-	-	-	-
Sector non specified	35.5	-	-	-	-	-	-	-

Source: IEA/OECD World Energy Balances.

Switzerland

Figure 1. Total final consumption by fuel

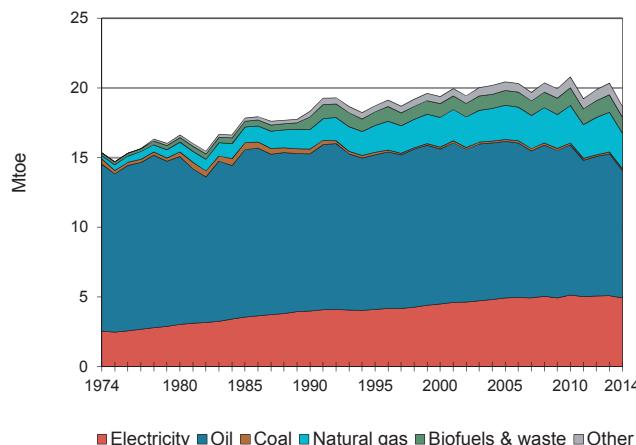


Figure 2. Electricity generation by fuel

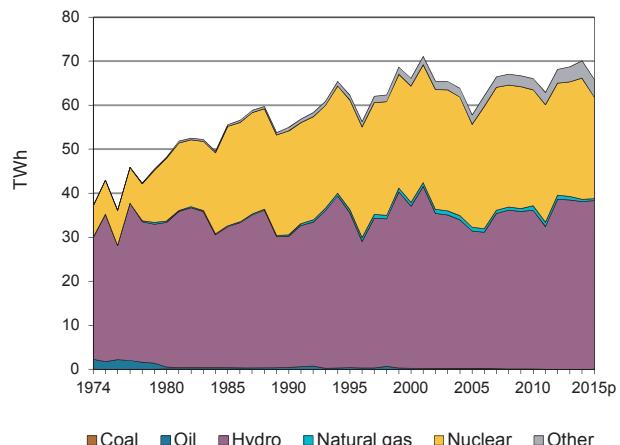


Figure 3. Electricity consumption by sector

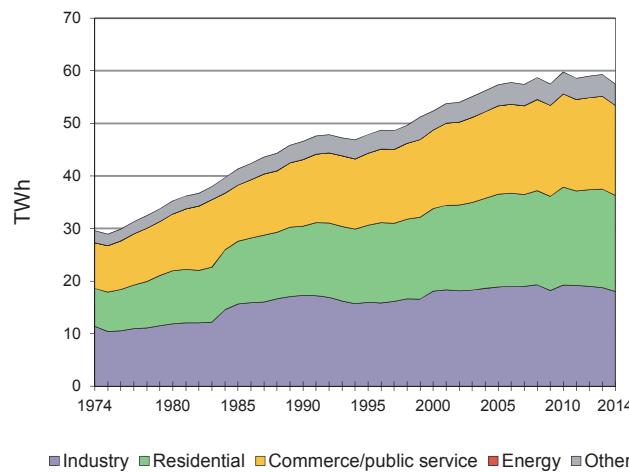


Figure 4. Electricity indicators

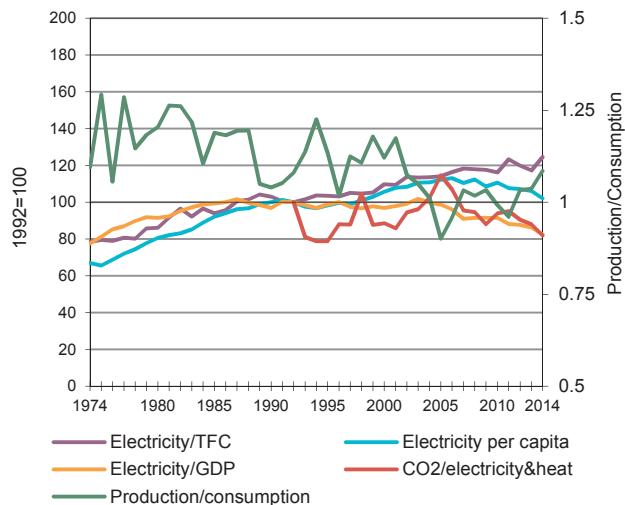
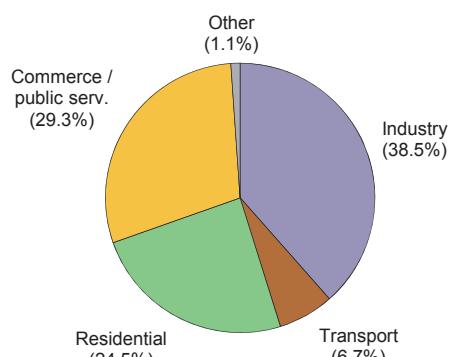


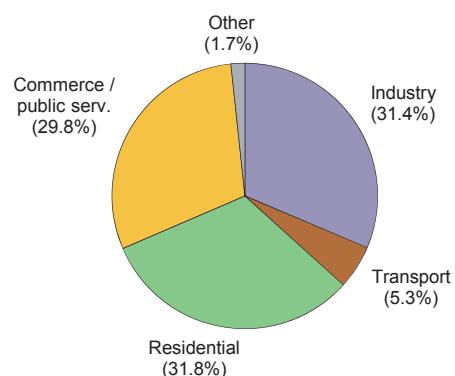
Figure 5. Total final electricity consumption by sector

1974



29.6 TWh

2014



57.5 TWh

Switzerland

Table 1. Energy consumption, GDP and population

	1974	1990	2000	2010	2013	2014	2015p	74-00	00-15
TPES (Mtoe)	17.65	24.36	25.01	26.19	26.73	25.06	24.52	1.3	-0.1
GDP (billion 2005 USD)	341.66	429.00	483.40	581.21	608.94	620.44	626.08	1.3	1.7
TPES/GDP ¹	0.05	0.06	0.05	0.05	0.04	0.04	0.04	0.0	-1.8
Population (millions)	6.46	6.80	7.25	7.86	8.09	8.19	8.26	0.4	0.9
TPES/population ²	2.73	3.58	3.45	3.33	3.30	3.06	2.97	0.9	-1.0
TPES/GDP (2005 = 100)	104	114	104	90	88	81	79	0.0	-1.8
Ele.TFC/GDP(2005=100) ³	79	99	98	93	88	84	..	0.9	..
Ele.TFC/population ⁴	4579	6856	7227	7611	7335	7019	..	1.8	..
Elec. generated (TWh) ⁵	37.10	54.99	66.12	66.05	68.72	70.10	65.88	2.2	-0.0

Source: IEA/OECD *World Energy Balances* and OECD *Main Economic Indicators*.

Table 2. Total primary energy supply (TPES) by source

	1974	1990	2000	2010	2013	2014	2015p	74-00	00-15
TPES (Mtoe)	17.65	24.36	25.01	26.19	26.73	25.06	24.52	1.3	-0.1
Coal	0.28	0.36	0.14	0.15	0.13	0.14	0.13	-2.8	-0.3
Oil	12.89	12.26	11.02	10.35	10.72	9.40	9.30	-0.6	-1.1
Natural gas	0.32	1.63	2.43	3.01	3.08	2.67	2.85	8.1	1.1
Biofuels & waste	0.20	1.48	1.82	2.34	2.47	2.40	2.48	8.9	2.1
Nuclear	1.84	6.18	6.92	6.90	6.80	7.21	6.04	5.2	-0.9
Geothermal	-	0.07	0.10	0.26	0.33	0.30	0.34	-	8.4
Solar, wind, tide ⁶	-	0.00	0.01	0.05	0.10	0.13	0.17	-	17.8
Hydro	2.39	2.56	3.17	3.10	3.31	3.27	3.29	1.1	0.3
Net electricity imports ⁷	-0.28	-0.18	-0.61	0.04	-0.21	-0.47	-0.09	3.1	-12.0
Heat	-	-	0.00	0.00	0.00	0.00	0.00	-	1.3

Source: IEA/OECD *World Energy Balances*.

1. In units of toe/2005 thousand US dollars.

2. In units of toe/per capita.

3. Ele.TFC = electricity total final consumption.

4. In units of kWh/per capita.

5. Electricity generated = gross production - amount of electricity produced in pumped storage plants.

6. Includes wave, ocean and other (e.g. fuel cells).

7. Net Imports = total imports - total exports

Switzerland**Table 3a. Summary electricity production and consumption¹ (TWh)**

	1974	1990	2000	2005	2010	2013	2014	2015e
Gross production	38.18	56.18	67.52	59.65	67.82	70.23	71.77	67.50
- Own use by power plant	0.77	1.73	2.02	1.81	1.69	1.70	1.76	-
Net production	37.41	54.45	65.50	57.84	66.13	68.53	70.01	-
- Used for heat pumps	-	-	0.01	0.01	0.01	0.01	0.01	0.01
- Used for electric boilers	-	-	-	-	-	-	-	-
- Used for pumped storage	1.54	1.70	1.97	2.63	2.49	2.13	2.36	2.30
+ Imports	6.27	20.75	24.33	38.35	33.40	29.87	28.53	34.03
- Exports	9.51	22.86	31.40	32.00	32.88	32.27	34.02	35.07
Electrical energy supplied	32.64	50.65	56.45	61.55	64.14	63.99	62.15	..
- Transmission & distr. losses	3.07	4.07	4.09	4.23	4.37	4.68	4.70	..
- Statistical difference	-	-	-	-	-	-	-	..
Total consumption	29.57	46.58	52.37	57.32	59.77	59.31	57.46	..
Energy industry consumption²	-	-	-	-	-	-	-	..
Coal Mines	-	-	-	-	-	-	-	..
Oil + Gas Extraction	-	-	-	-	-	-	-	..
Patent Fuel Plants	-	-	-	-	-	-	-	..
Coke Ovens	-	-	-	-	-	-	-	..
BKB plants	-	-	-	-	-	-	-	..
Gas Works	-	-	-	-	-	-	-	..
Blast Furnaces	-	-	-	-	-	-	-	..
Oil Refineries	-	-	-	-	-	-	-	..
Nuclear Industry	-	-	-	-	-	-	-	..
Coal Liquefaction Plants	-	-	-	-	-	-	-	..
LNG/Regasification Plants	-	-	-	-	-	-	-	..
Energy - Non Specified	-	-	-	-	-	-	-	..
Final consumption	29.57	46.58	52.37	57.32	59.77	59.31	57.46	..
Industry	11.38	17.24	18.08	18.90	19.27	18.77	18.02	..
Iron and steel	-	-	1.00 e	1.39	1.44	1.30	1.40	..
Chem. and petrochemical	1.69	2.36	2.59 e	3.75	3.65	3.91	3.31	..
Non-ferrous metals	1.83	1.62	1.15 e	1.11	0.35	0.49	0.50	..
Non-metallic minerals	0.50	0.71	1.73	1.00	1.26	1.08	1.16	..
Transport equipment	-	-	-	-	-	-	-	..
Machinery	3.17	3.57	2.68 e	3.20	4.13	4.18	3.94	..
Mining and quarrying	-	-	-	-	-	-	-	..
Food and tobacco	0.30	0.47	1.72 e	1.78	2.32	2.50	2.60	..
Paper, pulp and printing	1.11	1.51	2.52 e	2.56	2.40	1.84	1.71	..
Wood and wood products	-	-	-	-	-	-	-	..
Construction	-	0.08	0.75 e	0.48	0.63	0.62	0.58	..
Textile and leather	1.12	1.10	0.53 e	0.37	0.27	0.25	0.24	..
Non specified/other	1.68	5.81	3.42	3.26	2.81	2.60	2.57	..
Transport	1.97	2.57	2.64	2.98	3.16	3.14	3.07	..
Rail Transport	1.97	2.57	2.64	2.98	3.16	3.14	3.07	..
Pipeline Transport	-	-	-	-	-	-	-	..
Road	-	-	-	-	-	-	-	..
Transport Non Specified	-	-	-	-	-	-	-	..
Commercial & publ. serv.	7.23	13.21	15.73	17.63	18.62	18.77	18.29	..
Residential	8.66	12.67	14.93	16.79	17.72	17.64	17.11	..
Agriculture	0.33	0.88	0.99	1.03	1.00	1.00	0.97	..
Fishing	-	-	-	-	-	-	-	..
Sector non specified	-	-	-	-	-	-	-	..

1. Electricity generation from main activity producer power plants and autoproducers .

2. Energy industry consumption = electricity consumed by transformation industries for heating, traction and lighting purposes;

excludes own use by power plant and electricity used for heat pumps, electric boilers and pumped storage.

Switzerland**Table 3b. Summary heat production and consumption¹ (TJ)**

	1974	1990	2000	2005	2010	2013	2014	2015e
Gross production	-	15011	17889	21246	22332	21039	18571	20060
- Own use by power plant	-	-	-	-	-	-	-	-
Net production	-	15011	17889	21246	22332	21039	18571	-
- Used for electricity production	-	-	-	-	-	-	-	-
+ Imports	-	-	-	-	-	-	-	-
- Exports	-	-	-	-	-	-	-	-
Heat energy supplied	-	15011	17889	21246	22332	21039	18571	..
- Transmission & distr. losses	-	1050	1110	1430	1670	1810	1570	..
- Statistical difference	-	-	-	-	-	-	-	..
Total consumption	-	13961	16779	19816	20662	19229	17001	..
Energy industry consumption²	-	-	-	-	-	-	-	..
Coal Mines	-	-	-	-	-	-	-	..
Oil + Gas Extraction	-	-	-	-	-	-	-	..
Patent Fuel Plants	-	-	-	-	-	-	-	..
Coke Ovens	-	-	-	-	-	-	-	..
BKB plants	-	-	-	-	-	-	-	..
Gas Works	-	-	-	-	-	-	-	..
Blast Furnaces	-	-	-	-	-	-	-	..
Oil Refineries	-	-	-	-	-	-	-	..
Nuclear Industry	-	-	-	-	-	-	-	..
Coal Liquefaction Plants	-	-	-	-	-	-	-	..
LNG/Regasification Plants	-	-	-	-	-	-	-	..
Energy - Non Specified	-	-	-	-	-	-	-	..
Final consumption	-	13961	16779	19816	20662	19229	17001	..
Industry	-	2653	7078	7984	7538	6900	6481	..
Iron and steel	-	-	-	-	-	-	-	..
Chem. and petrochemical	-	368	1544	527	2559	1104	1125	..
Non-ferrous metals	-	-	3	-	18	4	58	..
Non-metallic minerals	-	-	4	13	-	-	-	..
Transport equipment	-	-	-	-	-	-	-	..
Machinery	-	462	873	590	645	415	342	..
Mining and quarrying	-	-	-	-	-	-	-	..
Food and tobacco	-	-	404	217	227	231	221	..
Paper, pulp and printing	-	1651	3400	3295	3598	1346	1303	..
Wood and wood products	-	-	-	-	-	-	-	..
Construction	-	16	-	-	16	23	16	..
Textile and leather	-	98	129	17	23	11	7	..
Non specified/other	-	58	721	3325	452	3766	3409	..
Transport	-	-	-	-	-	-	-	..
Commercial & publ. serv.	-	5359	3590	4798	4854	4633	3757	..
Residential	-	5949	6111	7034	8270	7696	6763	..
Agriculture	-	-	-	-	-	-	-	..
Fishing	-	-	-	-	-	-	-	..
Sector non specified	-	-	-	-	-	-	-	..

1. Heat generation from main activity producer power plants and autoproducers.

2. Energy industry consumption = electricity consumed by transformation industries for heating, traction and lighting purposes;

excludes own use by power plant and electricity used for heat pumps, electric boilers and pumped storage.

Switzerland

Table 4a. Gross electricity production by source (TWh)

	1974	1990	2000	2010	2013	2014	2015e	74-00	00-15
Total plants gross production¹	38.18 e	56.18	67.52	67.82	70.23	71.77	67.50	2.2	-0.0
Nuclear	7.07	23.64	26.45	26.34	25.99	27.56	23.09	5.2	-0.9
Hydro	28.85	30.98	38.23	37.83	39.97	39.70	39.88	1.1	0.3
- Of which pumped storage	1.08	1.19	1.40	1.76	1.51	1.67	1.62	1.0	1.0
Geothermal	-	-	-	-	-	-	-	-	-
Solar	-	0.00	0.01	0.09	0.50	0.84	1.18	-	36.6
Wind	-	-	0.00	0.04	0.09	0.10	0.11	-	27.1
Combustible fuels	2.27 e	1.56	2.83	3.52	3.68	3.57	3.24	0.9	0.9
- Coal	..	0.04	-	-	-	-	-	..	-
- Oil	..	0.39	0.23	0.07	0.05	0.04	0.04	..	-11.2
- Natural gas	..	0.33	0.86	1.03	0.77	0.52	0.47	..	-3.9
- Biofuels & waste	..	0.80	1.75	2.43	2.86	3.00	2.73	..	3.0
Other ²	-	-	-	-	-	-	-	-	-
Of which autoproducers	3.63 e	4.70	5.28	5.60	6.31	6.87	..	1.5	..
Nuclear	-	-	-	-	-	-	..	-	..
Hydro	3.52	3.61	2.98	2.80	2.83	2.91	..	-0.6	..
- Of which pumped storage	-	0.04	0.03	0.01	0.00	0.01	..	-	..
Geothermal	-	-	-	-	-	-	..	-	..
Solar	-	0.00	0.01	0.09	0.50	0.84	..	-	..
Wind	-	-	-	-	-	-	..	-	..
Combustible fuels	0.11 e	1.09	2.29	2.70	2.98	3.11	..	12.2	..
- Coal	..	0.03	-	-	-	-
- Oil	..	0.11	0.16	0.07	0.05	0.04
- Natural gas	..	0.15	0.60	0.47	0.42	0.43
- Biofuels & waste	..	0.79	1.53	2.16	2.51	2.64
Other ²	-	-	-	-	-	-	..	-	..

Table 4b. Gross heat production by source (PJ)

	1974	1990	2000	2010	2013	2014	2015e	74-00	00-15
Total plants heat generation³	-	15.01	17.89	22.33	21.04	18.57	20.06	-	0.8
Nuclear	-	0.89	1.10	1.30	1.27	1.19	1.10	-	-
Geothermal	-	-	-	-	-	-	-	-	-
Combustible fuels	-	14.12	16.72	20.89	19.67	17.31	18.87	-	0.8
- Coal	..	0.20	-	-	-	-	-	..	-
- Oil	..	1.64	0.69	0.17	0.38	0.49	0.53	..	-1.7
- Natural gas	..	6.73	7.37	7.33	5.32	3.12	3.40	..	-5.0
- Biofuels & waste	..	5.56	8.66	13.40	13.98	13.71	14.94	..	3.7
Chemical processes	-	-	-	-	-	-	-	-	-
Heat pumps	-	-	0.07	0.14	0.10	0.07	0.09	-	1.5
Electric boilers	-	-	-	-	-	-	-	-	-
Other sources	-	-	-	-	-	-	-	-	-
Of which Autoproducers	-	5.83	8.21	12.24	12.00	11.79	..	-	..
Nuclear	-	-	-	-	-	-	..	-	..
Geothermal	-	-	-	-	-	-	..	-	..
Combustible fuels	-	5.83	8.14	12.10	11.91	11.72	..	-	..
- Coal	..	-	-	-	-	-
- Oil	..	0.27	0.14	0.05	0.05	0.04
- Natural gas	..	0.07	0.33	0.53	0.13	0.12
- Biofuels & waste	..	5.50	7.67	11.52	11.73	11.56
Chemical processes	-	-	-	-	-	-	..	-	..
Heat pumps	-	-	0.07	0.14	0.10	0.07	..	-	..
Electric boilers	-	-	-	-	-	-	..	-	..
Other sources	-	-	-	-	-	-	..	-	..

1. Electricity generated from main activity producer power plants and autoproducers.

2. Includes wave, ocean and other sources (e.g. fuel cells, electricity from chemical heat).

3. Total heat generation = gross production of heat from main activity producer + heat sold in autoproducers.

Switzerland**Table 5. Net electricity production by autoproducers (GWh)**

	1974	1990	2000	2010	2012	2013	2014	74-00	00-14
Total	..	4605	5134	5433	5844	6135	6680	..	1.9
Total energy	..	-	-	-	-	-	-	..	-
Coal mines	..	-	-	-	-	-	-	..	-
Oil and gas extraction	..	-	-	-	-	-	-	..	-
Patent fuel plants	..	-	-	-	-	-	-	..	-
Coke ovens	..	-	-	-	-	-	-	..	-
Gas works	..	-	-	-	-	-	-	..	-
BKB	..	-	-	-	-	-	-	..	-
Oil refineries	..	-	-	-	-	-	-	..	-
Energy non specified/other	..	-	-	-	-	-	-	..	-
Total industry	..	803	-	-	-	-	-	..	-
Iron and steel	..	-	-	-	-	-	-	..	-
Chemical and petrochemical	..	-	-	-	-	-	-	..	-
Non-ferrous metals	..	-	-	-	-	-	-	..	-
Non-metallic minerals	..	-	-	-	-	-	-	..	-
Transport equipment	..	-	-	-	-	-	-	..	-
Machinery	..	-	-	-	-	-	-	..	-
Mining and quarrying	..	-	-	-	-	-	-	..	-
Food and tobacco	..	-	-	-	-	-	-	..	-
Pulp and printing	..	-	-	-	-	-	-	..	-
Wood and wood products	..	-	-	-	-	-	-	..	-
Construction	..	-	-	-	-	-	-	..	-
Textile and leather	..	-	-	-	-	-	-	..	-
Non specified/other industries	..	803	-	-	-	-	-	..	-
Total transport	..	-	-	-	-	-	-	..	-
Rail	..	-	-	-	-	-	-	..	-
Pipeline	..	-	-	-	-	-	-	..	-
Transport non specified	..	-	-	-	-	-	-	..	-
Other	..	3802	5134	5433	5844	6135	6680	..	1.9
Commerce and pub. services	..	-	-	-	-	-	-	..	-
Residential	..	-	-	-	-	-	-	..	-
Agriculture	..	-	-	-	-	-	-	..	-
Fishing	..	-	-	-	-	-	-	..	-
Sector non specified	..	3802	5134	5433	5844	6135	6680	..	1.9

Notes: Data reported in this table prior to 1990 may refer to combustible fuels only.

Switzerland**Table 6a. Electricity production from combustible fuels in electricity plants¹**

	1990	2000	2005	2010	2012	2013	2014	90-00	00-14
Steam coal									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
Lignite									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
Coal manufactured gases²									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
Other coal products³									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
Oil and petroleum products									
Fuel input (1000 t)	72	4	10	3	2	3	3	-25.1	-2.0
Fuel input (TJ)	2878	154	411	144	103	113	113	-25.4	-2.2
Electricity production (GWh)	242	15	40	14	10	11	11	-24.3	-2.2
Natural gas²									
Fuel input (TJ)	-	-	6	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
Solid biofuels									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
Industrial waste									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
Municipal waste									
Fuel input (TJ)	5534	6964	2920	1548	-	-	-	2.3	-
Electricity production (GWh)	206	318	166	116	-	-	-	4.4	-
Biogases and liquid biofuels									
Fuel input (TJ)	183	398	137	36	30	27	22	8.1	-18.7
Electricity production (GWh)	20	44	15	4	3	3	2	8.2	-19.8
Total combustible fuels									
Electricity production (GWh)	468	377	221	134	13	14	13	-2.1	-21.4

1. Excludes CHP plants.

2. Coal manufactured gases and natural gas are expressed on a gross calorific value basis.

3. Includes Coking coal as well as peat and peat products, patent fuels, BKB and shale oil

Switzerland

**Table 6b. Electricity and heat produced for sale from combustible fuels
in combined heat and power plants (CHP plants)**

	1990	2000	2005	2010	2012	2013	2014	90-00	00-14
Steam coal									
Fuel input (1000 t)	21	-	-	-	-	-	-	-	-
Fuel input (TJ)	507	-	-	-	-	-	-	-	-
Electricity production (GWh)	40	-	-	-	-	-	-	-	-
CHP Heat production (TJ)	198	-	-	-	-	-	-	-	-
Lignite									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
CHP Heat production (TJ)	-	-	-	-	-	-	-	-	-
Coal manufactured gases¹									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
CHP Heat production (TJ)	-	-	-	-	-	-	-	-	-
Other coal products²									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
CHP Heat production (TJ)	-	-	-	-	-	-	-	-	-
Petroleum products									
Fuel input (1000 t)	48	39	25	7	8	5	5	-2.1	-13.6
Fuel input (TJ)	1966	1576	1058	307	348	224	196	-2.2	-13.8
Electricity production (GWh)	144	212	174	54	41	35	31	3.9	-12.8
CHP Heat production (TJ)	1070	552	264	51	117	51	47	-6.4	-16.1
Natural gas¹									
Fuel input (TJ)	7841	8463	9166	10317	7845	6028	3321	0.8	-6.5
Electricity production (GWh)	330	857	870	1028	919	769	521	10.0	-3.5
CHP Heat production (TJ)	4698	3463	3845	3878	2217	1410	539	-3.0	-12.4
Solid Biofuels									
Fuel input (TJ)	186	347	902	3576	5614	6161	6041	6.4	22.6
Electricity production (GWh)	40	59	73	151	272	304	298	4.0	12.3
CHP Heat production (TJ)	7	65	129	1302	1545	1757	1685	25.0	26.2
Industrial waste									
Fuel input (TJ)	345	2465	3301	1997	1884	1888	1968	21.7	-1.6
Electricity production (GWh)	44	268	278	227	197	195	210	19.8	-1.7
CHP Heat production (TJ)	106	1225	1978	1006	1004	1014	1048	27.7	-1.1
Municipal waste									
Fuel input (TJ)	17036	24096	33316	36802	40764	40544	41292	3.5	3.9
Electricity production (GWh)	434	952	1446	1722	2012	2084	2204	8.2	6.2
CHP Heat production (TJ)	5264	7018	8772	11086	10710	11204	10972	2.9	3.2
Biogases and liquid biofuels									
Fuel input (TJ)	302	535	707	1275	1623	1776	1876	5.9	9.4
Electricity production (GWh)	60	105	131	205	257	278	289	5.8	7.5
CHP Heat production (TJ)	-	-	-	-	-	-	-	-	-
Total combustible fuels									
Electricity production (GWh)	1092	2453	2972	3387	3698	3665	3553	8.4	2.7
CHP Heat production (TJ)	11343	12323	14988	17323	15593	15436	14291	0.8	1.1

1. Coal manufactured gases and natural gas are expressed on a gross calorific value basis.

2. Includes Coking coal as well as peat and peat products, patent fuels, BKB and shale oil

Switzerland**Table 6c. Heat produced for sale from combustible fuels in heat plants¹**

	1990	2000	2005	2010	2012	2013	2014	90-00	00-14
Steam coal									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Heat production (TJ)	-	-	-	-	-	-	-	-	-
Lignite									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Heat production (TJ)	-	-	-	-	-	-	-	-	-
Coal manufactured gases²									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Heat production (TJ)	-	-	-	-	-	-	-	-	-
Other coal products³									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Heat production (TJ)	-	-	-	-	-	-	-	-	-
Petroleum products									
Fuel input (1000 t)	15	4	8	3	9	9	12	-12.4	8.2
Fuel input (TJ)	650	157	348	137	395	378	509	-13.2	8.8
Heat production (TJ)	566	137	303	119	343	328	443	-13.2	8.7
Natural gas²									
Fuel input (TJ)	2591	4984	5731	4398	3739	4990	3291	6.8	-2.9
Heat production (TJ)	2030	3906	4491	3447	2930	3910	2579	6.8	-2.9
Solid biofuels									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Heat production (TJ)	-	-	-	-	-	-	-	-	-
Industrial waste									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Heat production (TJ)	-	-	-	-	-	-	-	-	-
Municipal waste									
Fuel input (TJ)	608	516	518	-	-	-	-	-1.6	-
Heat production (TJ)	182	300	298	-	-	-	-	5.1	-
Biogases and liquid biofuels									
Fuel input (TJ)	1	110	51	6	-	-	-	60.0	-
Heat production (TJ)	-	50	19	2	-	-	-	-	-
Total combustible fuels									
Heat production (TJ)	2778	4393	5111	3568	3273	4238	3022	4.7	-2.6

1. Excludes CHP plants

2. Coal manufactured gases and natural gas are expressed on a gross calorific value basis.

3. Includes Coking coal as well as peat and peat products, patent fuels, BKB and shale oil

Switzerland**Table 7. Net maximum electricity generating capacity on 31 December (GW)**

	1974	1990	2000	2005	2010	2012	2013	2014
Total capacity¹	13.32	15.39	17.26	17.44	18.09	18.58	18.93	19.17
Nuclear	1.01	2.95	3.20	3.22	3.25	3.28	3.28	3.31
Hydro	11.72	11.67	13.24	13.36	13.72	13.80	13.82	13.74
<i>of which: pumped storage</i>	<i>1.31</i>	<i>1.77</i>	<i>1.76</i>	<i>1.70</i>	<i>1.84</i>	<i>1.84</i>	<i>1.84</i>	<i>1.84</i>
Geothermal	-	-	-	-	-	-	-	-
Solar PV	-	-	0.02	0.03	0.13	0.44	0.76	1.06
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	-	-	0.01	0.04	0.05	0.06	0.06
Other (e.g. fuel cells)	-	-	-	-	-	-	-	-
Combustible fuels	0.59	0.77	0.80	0.83	0.94	1.02	1.02	0.99
<i>of which⁽²⁾:</i>								
<i>Single-fired:</i>								
Coal and Coal products	-	-	-	-	-	-	-	-
Liquid fuels	0.59	0.38	0.11	0.11	0.09	0.09	0.09	0.09
Natural gas	-	0.01	0.13	0.14	0.28	0.27	0.27	0.24
Biofuels & waste	-	0.12	0.22	0.30	0.43	0.50	0.37	0.37
<i>Multi-fired:</i>								
Solid / liquid	-	0.03	0.10	0.08	0.01	0.02	0.11	0.11
Solid / natural gas	-	0.06	0.07	0.05	0.08	0.07	0.10	0.10
Liquid / natural gas	-	0.13	0.14	0.11	0.01	0.05	0.05	0.05
Solid / liquid / gas	-	0.04	0.03	0.05	0.04	0.03	0.04	0.04
<i>Type of generation</i>								
Steam	-	0.70	0.52	0.54	0.59	0.61	0.62	0.61
Internal combustion	-	0.03	0.12	0.14	0.13	0.14	0.14	0.14
Gas turbine	-	0.04	0.05	0.05	0.05	0.05	0.05	0.02
Combined cycle	-	-	0.11	0.09	0.17	0.21	0.21	0.21
Other	0.59	-	-	-	0.01	0.01	0.01	0.01
<i>Peak load</i>	..	8.54	9.03	9.78	10.75	10.69	10.30	10.00
Of which Autoproducers	-	0.89	1.09	1.22	1.29	1.75	2.07	2.35
Nuclear	-	-	-	-	-	-	-	-
Hydro	-	0.52	0.45	0.52	0.48	0.58	0.59	0.56
<i>of which: pumped storage</i>	<i>-</i>	<i>0.08</i>	<i>0.06</i>	<i>0.07</i>	<i>0.06</i>	<i>0.08</i>	<i>0.08</i>	<i>0.08</i>
Geothermal	-	-	-	-	-	-	-	-
Solar PV	-	-	0.02	0.03	0.13	0.44	0.76	1.06
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	-	-	-	-	-	-	-
Other (e.g. fuel cells)	-	-	-	-	-	-	-	-
Combustible fuels	-	0.36	0.63	0.67	0.68	0.73	0.73	0.73

1. Sum of available capacity figures

2. Breakdown of electrical capacity by type of fuel are shown in the individual country chapters.

Switzerland**Table 8. Capacity factors (%)**

	1974	1990	2000	2005	2010	2012	2013	2014
Total plants¹	32.7 e	41.7	44.7	39.0	42.8	42.9	42.4	42.8
Nuclear	80.2	91.5	94.3	82.8	92.4	88.6	90.5	95.1
Hydro	28.1	30.3	33.0	28.3	31.5	33.3	33.0	33.0
<i>of which: pumped storage</i>	9.4	43.4	50.4	67.2	44.2	42.7	37.7	41.7
Geothermal	-	-	-	-	-	-	-	-
Solar PV	-	5.7	7.9	8.6	8.6	7.8	7.6	9.1
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	-	11.4	7.6	10.1	20.5	17.1	19.2
Other (e.g. fuel cells)	-	-	-	-	-	-	-	-
Combustible fuels	43.8 e	23.1	40.2	44.2	42.6	41.6	41.1	41.0
Of which autoproducers	- e	60.2	55.4	47.5	49.7	39.3	34.8	33.3
Nuclear	-	-	-	-	-	-	-	-
Hydro	-	78.6	76.3	51.1	66.5	55.3	55.3	59.3
<i>of which: pumped storage</i>	-	33.4	25.9	21.9	5.7	0.6	1.8	4.2
Geothermal	-	-	-	-	-	-	-	-
Solar PV	-	5.7	7.9	8.6	8.6	7.8	7.6	9.1
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	-	-	-	-	-	-	-
Other (e.g. fuel cells)	-	-	-	-	-	-	-	-
Combustible fuels	- e	34.1	41.8	46.3	45.4	45.5	46.6	48.6

1. The capacity factor is defined as: the annual gross electricity generation (in GWh) divided by the net capacity (in GW) times 365 (days/year) times 24 (hours/day)

Switzerland**Table 9a. Electricity imports by origin (GWh)**

	1974	1990	2000	2005	2010	2012	2013	2014
Total imports	6274	20754	24330	38346	33401	31549	29874	28530
Total from OECD	-	20754	24330	38346	33401	31528	29856	28530
Austria	-	767	4189	9245	8176	8090	7250	5818
Belgium	-	-	-	-	-	-	-	-
Canada	-	-	-	-	-	-	-	-
Czech Republic	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-
France	-	11106	9613	10448	9783	9698	9468	10104
Germany	-	8811	10450	18467	14856	13040	12030	11709
Greece	-	-	-	-	-	-	-	-
Hungary	-	-	-	-	-	-	-	-
Ireland	-	-	-	-	-	-	-	-
Italy	-	70	78	186	586	700	1108	899
Luxembourg	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-
Poland	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-
Slovak Republic	-	-	-	-	-	-	-	-
Slovenia	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-
Switzerland	-	-	-	-	-	-	-	-
Turkey	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-
United States	-	-	-	-	-	-	-	-
Total from non-OECD	-	-	-	-	-	-	-	-
Albania	-	-	-	-	-	-	-	-
Azerbaijan	-	-	-	-	-	-	-	-
Belarus	-	-	-	-	-	-	-	-
Bulgaria	-	-	-	-	-	-	-	-
Croatia	-	-	-	-	-	-	-	-
F.Y.R. of Macedonia	-	-	-	-	-	-	-	-
Georgia	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-
Romania	-	-	-	-	-	-	-	-
Russian Federation	-	-	-	-	-	-	-	-
Serbia	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-
Turkmenistan	-	-	-	-	-	-	-	-
Ukraine	-	-	-	-	-	-	-	-
Non-specified/others	6274	-	-	-	-	21	18	-

Switzerland**Table 9b. Electricity exports by destination (GWh)**

	1974	1990	2000	2005	2010	2012	2013	2014
Total exports	9505	22862	31400	31996	32881	33749	32270	34021
Total to OECD	-	22696	31178	31710	32822	33723	32239	33956
Austria	-	75	213	64	53	127	255	546
Belgium	-	-	-	-	-	-	-	-
Canada	-	-	-	-	-	-	-	-
Czech Republic	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-
France	-	743	2068	3044	5504	3505	3599	3126
Germany	-	4796	6560	2720	3750	4510	4880	5520
Greece	-	-	-	-	-	-	-	-
Hungary	-	-	-	-	-	-	-	-
Ireland	-	-	-	-	-	-	-	-
Italy	-	17082	22337	25882	23515	25581	23505	24764
Luxembourg	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-
Poland	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-
Slovak Republic	-	-	-	-	-	-	-	-
Slovenia	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-
Switzerland	-	-	-	-	-	-	-	-
Turkey	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-
United States	-	-	-	-	-	-	-	-
Total to non-OECD	-	-	-	-	-	-	-	-
Albania	-	-	-	-	-	-	-	-
Azerbaijan	-	-	-	-	-	-	-	-
Belarus	-	-	-	-	-	-	-	-
Bulgaria	-	-	-	-	-	-	-	-
Croatia	-	-	-	-	-	-	-	-
F.Y.R. of Macedonia	-	-	-	-	-	-	-	-
Georgia	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-
Romania	-	-	-	-	-	-	-	-
Russian Federation	-	-	-	-	-	-	-	-
Serbia	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-
Turkmenistan	-	-	-	-	-	-	-	-
Ukraine	-	-	-	-	-	-	-	-
Non-specified/others	9505	166	222	286	59	26	31	65

Switzerland**Table 10a. Share of electricity in total final consumption (%)**

	1974	1990	2000	2005	2010	2012	2013	2014
Share of total final consumption	16.6	21.9	23.2	24.1	24.7	25.5	25.1	26.5
Industry	26.2	42.7	41.3	41.8	42.8	43.8	42.9	43.4
Iron and steel	-	-	52.7 e	58.9	57.1	57.0	57.7	57.5
Chem. and petrochemical	62.3	34.3	35.1 e	42.3	43.5	44.1	44.1	42.1
Non-ferrous metals	97.4	74.4	73.2 e	80.9	50.9	51.4	52.0	48.0
Non-metallic minerals	76.1	10.9	30.5	21.1	23.2	22.9	22.4	21.8
Transport equipment	-	-	-	-	-	-	-	-
Machinery	92.7	45.2	54.3 e	55.6	58.1	60.5	59.9	64.1
Mining and quarrying	-	-	-	-	-	-	-	-
Food and tobacco	70.9	24.8	37.3 e	39.6	39.8	44.1	43.1	43.5
Paper, pulp and printing	83.9	33.8	36.6 e	38.9	41.2	44.0	41.9	43.2
Wood and wood products	-	-	-	-	-	-	-	-
Construction	-	12.8	31.7 e	19.8	25.7	25.2	25.0	27.0
Textile and leather	99.3	60.5	46.4 e	48.1	39.2	44.0	42.7	41.7
Non specified/other	5.3	71.7	46.4	41.5	46.6	41.5	39.0	42.5
Transport	5.0	4.3	3.9	4.4	4.5	4.4	4.5	4.5
Rail Transport	90.3	96.0	95.3	96.2	95.7	95.6	95.7	96.3
Pipeline Transport	-	-	-	-	-	-	-	-
Road	-	-	-	-	-	-	-	-
Transport Non Specified	-	-	-	-	-	-	-	-
Other sectors	18.7	25.2	29.6	30.1	31.1	33.0	32.0	36.1
Commercial & publ. serv.	99.6	36.6	38.4	39.9	40.9	43.1	42.1	46.6
Residential	52.6	21.9	24.6	24.8	25.4	27.2	26.2	30.1
Agriculture	25.0	54.2	42.0	42.5	72.2	60.4	66.0	77.7
Fishing	-	-	-	-	-	-	-	-
Sector non specified	-	-	-	-	-	-	-	-

Table 10b. Share of heat in total final consumption (%)

	1974	1990	2000	2005	2010	2012	2013	2014
Share of total final consumption	-	1.8	2.1	2.3	2.4	2.3	2.3	2.2
Industry	-	1.8	4.5	4.9	4.7	4.7	4.4	4.3
Iron and steel	-	-	-	-	-	-	-	-
Chem. and petrochemical	-	1.5	5.8	1.7	8.5	6.8	3.5	4.0
Non-ferrous metals	-	-	0.1	-	0.7	0.2	0.1	1.6
Non-metallic minerals	-	-	0.0	0.1	-	0.2	-	-
Transport equipment	-	-	-	-	-	-	-	-
Machinery	-	1.6	4.9	2.9	2.5	1.4	1.7	1.5
Mining and quarrying	-	-	-	-	-	-	-	-
Food and tobacco	-	-	2.4	1.3	1.1	1.5	1.1	1.0
Paper, pulp and printing	-	10.2	13.7	13.9	17.2	10.3	8.5	9.1
Wood and wood products	-	-	-	-	-	-	-	-
Construction	-	0.7	-	-	0.2	0.2	0.3	0.2
Textile and leather	-	1.5	3.1	0.6	0.9	0.4	0.5	0.3
Non specified/other	-	0.2	2.7	11.7	2.1	12.0	15.7	15.7
Transport	-	-	-	-	-	-	-	-
Other sectors	-	3.0	2.5	2.8	3.0	2.9	2.9	2.9
Commercial & publ. serv.	-	4.3	2.6	3.2	3.1	3.0	3.1	2.8
Residential	-	2.7	2.7	2.8	3.1	3.0	3.0	3.1
Agriculture	-	-	-	-	-	-	-	-
Fishing	-	-	-	-	-	-	-	-
Sector non specified	-	-	-	-	-	-	-	-

Source: IEA/OECD World Energy Balances.

Turkey

Figure 1. Total final consumption by fuel

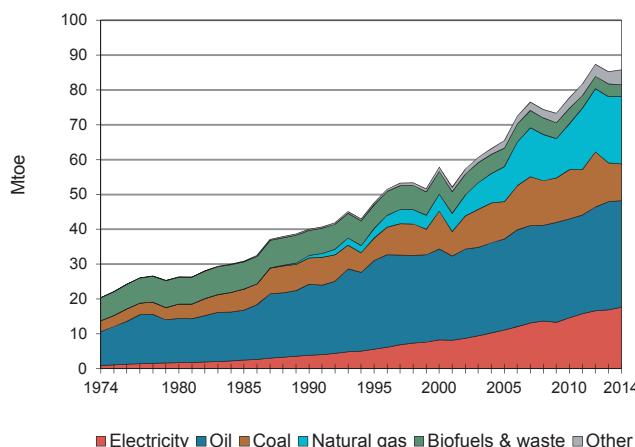


Figure 2. Electricity generation by fuel

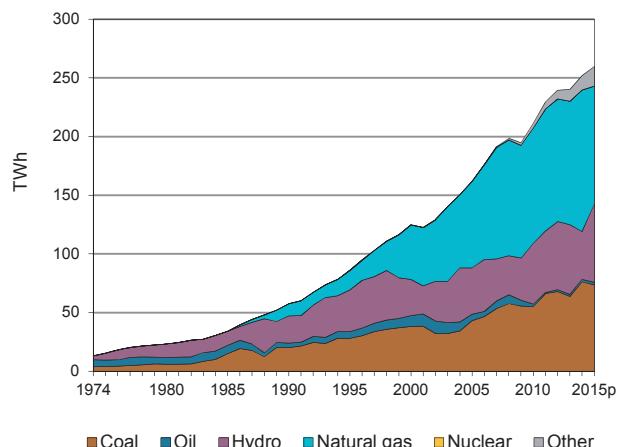


Figure 3. Electricity consumption by sector

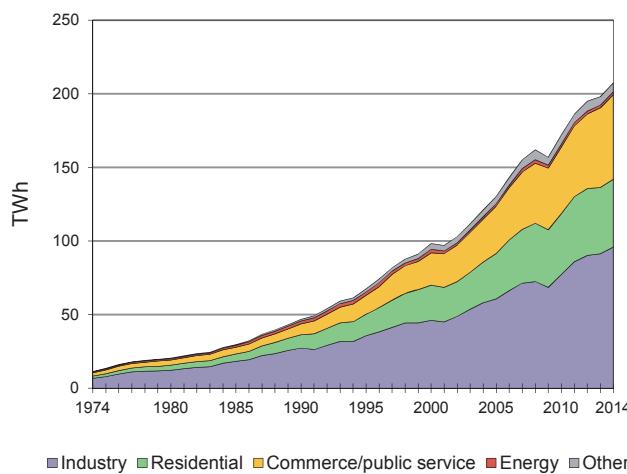


Figure 4. Electricity indicators

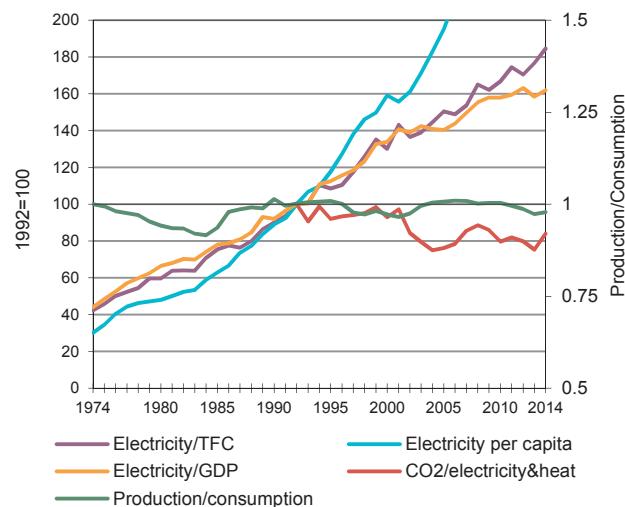
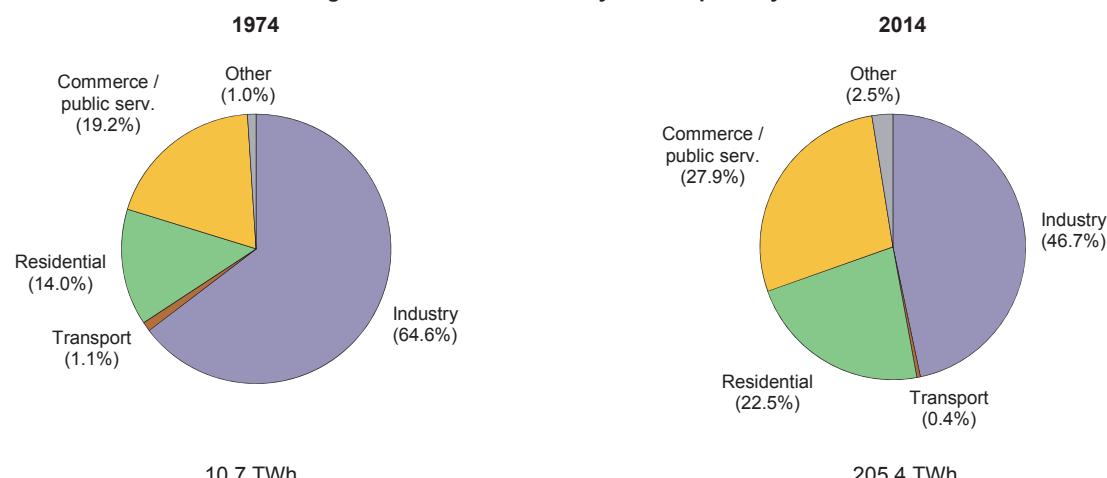


Figure 5. Total final electricity consumption by sector



Turkey

Table 1. Energy consumption, GDP and population

	1974	1990	2000	2010	2013	2014	2015p	74-00	00-15
TPES (Mtoe)	25.20	52.72	75.96	106.66	116.94	121.54	129.68	4.3	3.6
GDP (billion 2005 USD)	174.31	348.93	500.18	731.14	846.26	870.92	905.62	4.1	4.0
TPES/GDP ¹	0.14	0.15	0.15	0.15	0.14	0.14	0.14	0.2	-0.4
Population (millions)	39.04	55.12	64.25	73.00	75.77	76.62	77.48	1.9	1.3
TPES/population ²	0.65	0.96	1.18	1.46	1.54	1.59	1.67	2.4	2.3
TPES/GDP (2005 = 100)	107	112	113	108	103	104	106	0.2	-0.4
Ele.TFC/GDP(2005=100) ³	30	63	93	113	113	115	..	4.5	..
Ele.TFC/population ⁴	274	816	1493	2330	2590	2682	..	6.7	..
Elec. generated (TWh) ⁵	13.48	57.54	124.92	211.21	240.15	251.96	259.69	8.9	5.0

Source: IEA/OECD *World Energy Balances* and OECD *Main Economic Indicators*.

Table 2. Total primary energy supply (TPES) by source

	1974	1990	2000	2010	2013	2014	2015p	74-00	00-15
TPES (Mtoe)	25.20	52.72	75.96	106.66	116.94	121.54	129.68	4.3	3.6
Coal	5.59	16.87	22.51	32.17	32.17	35.88	35.34	5.5	3.1
Oil	12.70	23.40	30.40	31.50	33.46	32.80	39.02	3.4	1.7
Natural gas	-	2.85	12.63	31.39	37.55	40.19	39.22	-	7.8
Biofuels & waste	6.57	7.21	6.51	4.56	3.93	3.56	3.25	-0.0	-4.5
Nuclear	-	-	-	-	-	-	-	-	-
Geothermal	0.05	0.43	0.68	1.97	2.64	3.52	4.76	10.6	13.8
Solar, wind, tide ⁶	-	0.03	0.26	0.68	1.56	1.64	1.95	-	14.2
Hydro	0.29	1.99	2.66	4.45	5.11	3.50	5.75	8.9	5.3
Net electricity imports ⁷	-	-0.06	0.29	-0.07	0.53	0.45	0.38	-	1.9
Heat	-	-	-	-	-	-	-	-	-

Source: IEA/OECD *World Energy Balances*.

1. In units of toe/2005 thousand US dollars.
2. In units of toe/per capita.
3. Ele.TFC = electricity total final consumption.
4. In units of kWh/per capita.
5. Electricity generated = gross production - amount of electricity produced in pumped storage plants.
6. Includes wave, ocean and other (e.g. fuel cells).
7. Net Imports = total imports - total exports

Turkey

Table 3a. Summary electricity production and consumption¹ (TWh)

	1974	1990	2000	2005	2010	2013	2014	2015e
Gross production	13.48	57.54	124.92	161.96	211.21	240.15	251.96	259.69
- Own use by power plant	0.63	3.31	6.22	6.49	8.16	11.18	12.51	-
Net production	12.85	54.23	118.70	155.47	203.05	228.98	239.45	-
- Used for heat pumps	-	-	-	-	-	-	-	-
- Used for electric boilers	-	-	-	-	-	-	-	-
- Used for pumped storage	-	-	-	-	-	-	-	-
+ Imports	-	0.18	3.79	0.64	1.14	7.43	7.95	7.41
- Exports	-	0.91	0.44	1.80	1.92	1.23	2.70	2.97
Electrical energy supplied	12.85	53.50	122.05	154.31	202.27	235.18	244.71	..
- Transmission & distr. losses	1.49	6.68	23.76	24.04	30.22	37.13	37.33	..
- Statistical difference	-	-	-	-	-	-	-	..
Total consumption	11.36	46.82	98.30	130.26	172.05	198.05	207.38	..
Energy industry consumption²	0.68	1.87	2.42	1.62	2.04	1.88	1.93	..
Coal Mines	0.47	0.72	0.54	0.47	0.74	0.58	0.68	..
Oil + Gas Extraction	-	-	0.16	0.20	0.10	0.08	0.07	..
Patent Fuel Plants	-	-	-	-	-	-	-	..
Coke Ovens	-	-	-	-	-	-	-	..
BKB plants	-	-	-	-	-	-	-	..
Gas Works	-	-	-	-	-	-	-	..
Blast Furnaces	-	-	-	-	-	-	-	..
Oil Refineries	0.21	1.15	1.59	0.87	1.16	1.16	1.13	..
Nuclear Industry	-	-	-	-	-	-	-	..
Coal Liquefaction Plants	-	-	-	-	-	-	-	..
LNG/Regasification Plants	-	-	-	-	-	-	-	..
Energy - Non Specified	-	-	0.13	0.08	0.05	0.05	0.06	..
Final consumption	10.68	44.95	95.87	128.64	170.01	196.17	205.44	..
Industry	6.90	27.34	46.09	60.67	77.30	91.38	95.84	..
Iron and steel	0.90	4.84	8.40	11.66	16.58	20.23	20.68	..
Chem. and petrochemical	0.71	3.37	2.62	3.97	4.34	4.03	4.18	..
Non-ferrous metals	0.38	2.55	2.51	2.49	2.31	2.28	2.42	..
Non-metallic minerals	1.26	3.99	5.87	6.02	11.01	11.81	12.20	..
Transport equipment
Machinery	0.31	1.14	2.48	2.49	4.81	5.29	5.96	..
Mining and quarrying	0.15	0.47	0.68	0.90	0.88	1.88	1.53	..
Food and tobacco	0.87	2.59	3.09	3.75	5.13	6.56	6.60	..
Paper, pulp and printing	1.64	1.38	2.21	2.67	3.21	..
Wood and wood products	0.72	1.92	0.67	0.99	1.85	1.91	2.17	..
Construction	0.02	0.40	1.21	1.26	2.26	3.05	2.80	..
Textile and leather	1.13	3.92	9.06	12.10	13.89	14.63	15.62	..
Non specified/other	0.45	2.15	7.86	13.65	12.04	17.06	18.48	..
Transport	0.12	0.35	0.77	0.75	0.59	0.83	0.92	..
Rail Transport	0.12	0.35	0.77	0.23	0.39	0.66	0.74	..
Pipeline Transport	-	-	-	0.12	0.20	0.17	0.18	..
Road	-	-	-	-	-	-	-	..
Transport Non Specified	-	-	-	0.40	-	-	-	..
Commercial & publ. serv.	1.50	9.06	23.89	30.94	41.41	44.97	46.19	..
Residential	2.05	7.40	22.06	32.17	45.13	54.07	57.33	..
Agriculture	0.06	0.58	3.07	4.01	5.44	4.85	5.10	..
Fishing	-	-	-	0.10	0.15	0.07	0.06	..
Sector non specified	0.05	0.23	-	-	-	-	-	..

1. Electricity generation from main activity producer power plants and autoproducers .

2. Energy industry consumption = electricity consumed by transformation industries for heating, traction and lighting purposes;

excludes own use by power plant and electricity used for heat pumps, electric boilers and pumped storage.

Turkey

Table 3b. Summary heat production and consumption¹ (TJ)

	1974	1990	2000	2005	2010	2013	2014	2015e
Gross production	-	-	16183	35597	51330	55626	88048	82777
- Own use by power plant	-	-	-	-	-	-	-	-
Net production	-	-	16183	35597	51330	55626	88048	-
- Used for electricity production	-	-	-	-	-	3993	3252	4500
+ Imports	-	-	-	-	-	-	-	-
- Exports	-	-	-	-	-	-	-	-
Heat energy supplied	-	-	16183	35597	51330	51633	84796	..
- Transmission & distr. losses	-	-	-	-	-	-	-	..
- Statistical difference	-	-	-	-	-	-	-	..
Total consumption	-	-	16183	35597	51330	51633	84796	..
Energy industry consumption²	-	-	-	-	-	-	-	..
Coal Mines	-	-	-	-	-	-	-	..
Oil + Gas Extraction	-	-	-	-	-	-	-	..
Patent Fuel Plants	-	-	-	-	-	-	-	..
Coke Ovens	-	-	-	-	-	-	-	..
BKB plants	-	-	-	-	-	-	-	..
Gas Works	-	-	-	-	-	-	-	..
Blast Furnaces	-	-	-	-	-	-	-	..
Oil Refineries	-	-	-	-	-	-	-	..
Nuclear Industry	-	-	-	-	-	-	-	..
Coal Liquefaction Plants	-	-	-	-	-	-	-	..
LNG/Regasification Plants	-	-	-	-	-	-	-	..
Energy - Non Specified	-	-	-	-	-	-	-	..
Final consumption	-	-	16183	35597	51330	51633	84796	..
Industry	-	-	16183	35597	51330	51633	84796	..
Iron and steel	-	-	-	-	-	-	-	..
Chem. and petrochemical	-	-	-	-	-	-	-	..
Non-ferrous metals	-	-	-	-	-	-	-	..
Non-metallic minerals	-	-	-	-	-	-	-	..
Transport equipment	-	-	-	-	-	-	-	..
Machinery	-	-	-	-	-	-	-	..
Mining and quarrying	-	-	-	-	-	-	-	..
Food and tobacco	-	-	-	-	-	-	-	..
Paper, pulp and printing	-	-	-	-	-	-	-	..
Wood and wood products	-	-	-	-	-	-	-	..
Construction	-	-	-	-	-	-	-	..
Textile and leather	-	-	-	-	-	-	-	..
Non specified/other	-	-	16183	35597	51330	51633	84796	..
Transport	-	-	-	-	-	-	-	..
Commercial & publ. serv.	-	-	-	-	-	-	-	..
Residential	-	-	-	-	-	-	-	..
Agriculture	-	-	-	-	-	-	-	..
Fishing	-	-	-	-	-	-	-	..
Sector non specified	-	-	-	-	-	-	-	..

1. Heat generation from main activity producer power plants and autoproducers.

2. Energy industry consumption = electricity consumed by transformation industries for heating, traction and lighting purposes;

excludes own use by power plant and electricity used for heat pumps, electric boilers and pumped storage.

Turkey

Table 4a. Gross electricity production by source (TWh)

	1974	1990	2000	2010	2013	2014	2015e	74-00	00-15
Total plants gross production¹	13.48	57.54	124.92	211.21	240.15	251.96	259.69	8.9	5.0
Nuclear	-	-	-	-	-	-	-	-	-
Hydro	3.36	23.15	30.88	51.80	59.42	40.65	66.90	8.9	5.3
- Of which pumped storage	-	-	-	-	-	-	-	-	-
Geothermal	-	0.08	0.08	0.67	1.36	2.36	3.37	-	28.8
Solar	-	-	-	-	-	0.02	-	-	-
Wind	-	-	0.03	2.92	7.56	8.52	11.55	-	47.8
Combustible fuels	10.12	34.32	93.93	155.83	171.62	200.17	177.46	8.9	4.3
- Coal	..	20.18	38.19	55.05	63.79	76.26	73.54	..	4.5
- Oil	..	3.94	9.31	2.18	1.74	2.15	2.19	..	-9.2
- Natural gas	..	10.19	46.22	98.14	105.12	120.58	100.19	..	5.3
- Biofuels & waste	..	-	0.22	0.46	0.98	1.19	1.54	..	13.8
Other ²	-	-	-	-	0.19	0.25	0.41	-	-
Of which autoproducers	0.85	3.36	15.96	12.45	13.07	4.44	..	12.0	..
Nuclear	-	-	-	-	-	-	..	-	..
Hydro	0.03	0.01	0.06	1.22	1.08	0.39	..	3.0	..
- Of which pumped storage	-	-	-	-	-	-	..	-	..
Geothermal	-	-	-	-	-	-	..	-	..
Solar	-	-	-	-	-	-	..	-	..
Wind	-	-	0.00	0.00	0.00	0.00	..	-	..
Combustible fuels	0.82	3.35	15.90	11.22	11.80	3.91	..	12.1	..
- Coal	..	0.38	2.02	3.45	3.73	1.19
- Oil	..	2.97	3.57	0.82	0.56	0.16
- Natural gas	..	0.00	10.09	6.78	7.34	2.50
- Biofuels & waste	..	-	0.22	0.17	0.17	0.06
Other ²	-	-	-	-	0.19	0.14	..	-	..

Table 4b. Gross heat production by source (PJ)

	1974	1990	2000	2010	2013	2014	2015e	74-00	00-15
Total plants heat generation³	-	-	16.18	51.33	55.63	88.05	82.78	-	11.5
Nuclear	-	-	-	-	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-	-	-
Combustible fuels	-	-	16.18	51.33	51.63	84.80	78.28	-	11.1
- Coal	..	-	0.92	0.86	1.99	18.34	19.59	..	22.7
- Oil	..	-	1.12	0.94	1.64	6.01	4.00	..	8.8
- Natural gas	..	-	14.14	49.32	46.50	57.98	52.00	..	9.1
- Biofuels & waste	..	-	-	0.21	1.50	2.48	2.69	..	-
Chemical processes	-	-	-	-	-	-	-	-	-
Heat pumps	-	-	-	-	-	-	-	-	-
Electric boilers	-	-	-	-	-	-	-	-	-
Other sources	-	-	-	-	3.99	3.25	4.50	-	-
Of which Autoproducers	-	-	16.07	21.49	24.62	8.70	..	-	..
Nuclear	-	-	-	-	-	-	..	-	..
Geothermal	-	-	-	-	-	-	..	-	..
Combustible fuels	-	-	16.07	21.49	20.63	6.63	..	-	..
- Coal	..	-	0.92	0.86	1.12	0.34
- Oil	..	-	1.12	0.94	1.64	0.46
- Natural gas	..	-	14.03	19.69	17.86	5.84
- Biofuels & waste	..	-	-	-	-	-
Chemical processes	-	-	-	-	-	-	..	-	..
Heat pumps	-	-	-	-	-	-	..	-	..
Electric boilers	-	-	-	-	-	-	..	-	..
Other sources	-	-	-	-	3.99	2.07	..	-	..

1. Electricity generated from main activity producer power plants and autoproducers.

2. Includes wave, ocean and other sources (e.g. fuel cells, electricity from chemical heat).

3. Total heat generation = gross production of heat from main activity producer + heat sold in autoproducers.

Turkey**Table 5. Net electricity production by autoproducers (GWh)**

	1974	1990	2000	2010	2012	2013	2014	74-00	00-14
Total	798	3085	15288	11790	12558	12335	4216	12.0	-8.8
Total energy	-	-	580	922	947	960	278	-	-5.1
Coal mines	-	-	-	-	-	-	-	-	-
Oil and gas extraction	-	-	-	-	-	-	-	-	-
Patent fuel plants	-	-	-	-	-	-	-	-	-
Coke ovens	-	-	-	-	-	-	-	-	-
Gas works	-	-	-	-	-	-	-	-	-
BKB	-	-	580	922	947	960	278	-	-5.1
Oil refineries	-	-	-	-	-	-	-	-	-
Energy non specified/other	-	-	-	-	-	-	-	-	-
Total industry	769 e	3085	14409	10755	11377	11133	3851	11.9	-9.0
Iron and steel	242 e	-	3662	4009	4327	4369	1464	11.0	-6.3
Chemical and petrochemical	82 e	-	1111	1485	1389	1165	403	10.5	-7.0
Non-ferrous metals	-	-	164	1207	1735	1162	425	-	7.0
Non-metallic minerals	37 e	-	1638	861	424	620	270	15.7	-12.1
Transport equipment	-	-	-	-	-	-	-	-	-
Machinery	1 e	-	480	114	127	115	47	26.8	-15.3
Mining and quarrying	42 e	-	62	65	85	59	13	1.5	-10.6
Food and tobacco	150 e	-	724	871	855	1002	265	6.2	-6.9
Pulp and printing	-	-	719	696	864	1117	363	-	-4.8
Wood and wood products	150 e	-	166	262	245	217	63	0.4	-6.7
Construction	-	-	-	-	-	-	4	-	-
Textile and leather	42 e	-	3202	1058	1197	1071	437	18.1	-13.3
Non specified/other industries	23 e	3085	2481	127	129	236	97	19.7	-20.7
Total transport	-	-	-	-	-	-	-	-	-
Rail	-	-	-	-	-	-	-	-	-
Pipeline	-	-	-	-	-	-	-	-	-
Transport non specified	-	-	-	-	-	-	-	-	-
Other	29 e	-	299	113	234	242	87	9.4	-8.4
Commerce and pub. services	29 e	-	299	111	233	241	87	9.4	-8.4
Residential	-	-	-	-	-	-	-	-	-
Agriculture	-	-	-	-	-	-	-	-	-
Fishing	-	-	-	2	1	1	-	-	-
Sector non specified	-	-	-	-	-	-	-	-	-

Notes: Data reported in this table prior to 1990 may refer to combustible fuels only.

Turkey

Table 6a. Electricity production from combustible fuels in electricity plants¹

	1990	2000	2005	2010	2012	2013	2014	90-00	00-14
Steam coal									
Fuel input (1000 t)	369	1659	4572	6809	11662	11384	13642	16.2	16.2
Fuel input (TJ)	5806	22868	91825	148892	281524	270108	325280	14.7	20.9
Electricity production (GWh)	449	2212	10573	16099	30175	30183	36231	17.3	22.1
Lignite									
Fuel input (1000 t)	29632	52330	47236	54975	54187	45507	56172	5.9	0.5
Fuel input (TJ)	203063	369857	270067	384692	373222	323101	392867	6.2	0.4
Electricity production (GWh)	19241	34036	29627	35507	34339	29928	36308	5.9	0.5
Coal manufactured gases²									
Fuel input (TJ)	-	9986	12202	24335	26557	27705	31889	-	8.6
Electricity production (GWh)	-	793	859	1459	1526	1680	1864	-	6.3
Other coal products³									
Fuel input (1000 t)	75	262	571	517	477	576	516	13.3	5.0
Fuel input (TJ)	1180	6588	15878	14406	14093	14389	12835	18.8	4.9
Electricity production (GWh)	115	656	1563	1278	1401	1403	1152	19.0	4.1
Oil and petroleum products									
Fuel input (1000 t)	433	2458	1031	478	275	320	443	19.0	-11.5
Fuel input (TJ)	17486	100902	41263	18255	11704	13462	17521	19.2	-11.8
Electricity production (GWh)	1176	8056	4399	1858	1293	1432	1796	21.2	-10.2
Natural gas²									
Fuel input (TJ)	98996	312911	519189	692505	735635	722307	807374	12.2	7.0
Electricity production (GWh)	10191	43045	67915	91253	97999	98526	113430	15.5	7.2
Solid biofuels									
Fuel input (TJ)	-	855	17	232	165	217	207	-	-9.6
Electricity production (GWh)	-	53	2	14	10	12	12	-	-10.1
Industrial waste									
Fuel input (TJ)	-	648	1056	1496	1567	1215	1260	-	4.9
Electricity production (GWh)	-	54	88	125	129	102	102	-	4.6
Municipal waste									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
Biogases and liquid biofuels									
Fuel input (TJ)	-	209	282	2465	2798	5359	5997	-	27.1
Electricity production (GWh)	-	21	28	279	321	610	687	-	28.3
Total combustible fuels									
Electricity production (GWh)	31172	88926	115054	147872	167193	163876	191582	11.1	5.6

1. Excludes CHP plants.

2. Coal manufactured gases and natural gas are expressed on a gross calorific value basis.

3. Includes Coking coal as well as peat and peat products, patent fuels, BKB and shale oil

Turkey

Table 7. Net maximum electricity generating capacity on 31 December (GW)

	1974	1990	2000	2005	2010	2012	2013	2014
Total capacity¹	3.73	16.32	27.26	38.84	49.52	57.06	64.01	69.52
Nuclear	-	-	-	-	-	-	-	-
Hydro	1.45	6.76	11.18	12.91	15.83	19.61	22.29	23.64
<i>of which: pumped storage</i>	-	-	-	-	-	-	-	-
Geothermal	-	0.02	0.02	0.02	0.09	0.16	0.31	0.41
Solar PV	-	-	-	-	-	-	-	0.04
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	-	0.02	0.02	1.32	2.26	2.76	3.63
Other (e.g. fuel cells)	-	-	-	-	-	-	0.04	0.05
Combustible fuels	2.28	9.54	16.05	25.90	32.28	35.03	38.61	41.75
<i>of which⁽²⁾:</i>								
<i>Single-fired:</i>								
Coal and Coal products	0.94	5.21	6.99	9.12	11.95	12.58	12.61	14.81
Liquid fuels	1.28	1.75	1.59	2.51	1.59	1.29	0.62	0.60
Natural gas	-	2.21	4.90	11.10	13.30	14.12	17.17	18.72
Biofuels & waste	0.01	-	0.02	0.04	0.11	0.17	0.20	0.25
<i>Multi-fired:</i>								
Solid / liquid	0.05	0.37	0.41	0.45	0.18	0.33	0.33	0.22
Solid / natural gas	-	-	-	0.02	0.03	0.03	0.04	0.12
Liquid / natural gas	-	-	2.14	2.67	4.87	6.28	7.41	6.78
Solid / liquid / gas	-	-	-	-	0.25	0.25	0.25	0.25
<i>Type of generation</i>								
Steam	..	-	8.52	9.43	12.44	13.24	12.97	15.18
Internal combustion	..	-	0.23	1.50	1.58	2.34	2.34	2.43
Gas turbine	..	-	0.45	0.85	2.09	1.51	1.28	1.27
Combined cycle	..	-	6.85	14.08	16.08	17.72	21.71	22.54
Other	..	9.54	-	0.04	0.10	0.22	0.32	0.34
<i>Peak load</i>	2.30	9.18	19.39	25.17	33.39	39.05	38.27	41.00
Of which Autoproducers	0.43	1.19	3.00	4.06	3.14	3.20	3.42	0.03
Nuclear	-	-	-	-	-	-	-	-
Hydro	0.01	0.01	0.04	0.56	0.54	0.54	0.54	-
<i>of which: pumped storage</i>	-	-	-	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-	-
Solar PV	-	-	-	-	-	-	-	-
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	-	-	-	-	-	0.01	-
Other (e.g. fuel cells)	-	-	-	-	-	-	0.04	0.02
Combustible fuels	0.42	1.18	2.96	3.50	2.60	2.66	2.84	0.01

1. Sum of available capacity figures

2. Breakdown of electrical capacity by type of fuel are shown in the individual country chapters.

Turkey

Table 8. Capacity factors (%)

	1974	1990	2000	2005	2010	2012	2013	2014
Total plants¹	41.2	40.3	52.3	47.6	48.7	47.9	42.8	41.4
Nuclear	-	-	-	-	-	-	-	-
Hydro	26.4	39.1	31.5	35.0	37.4	33.7	30.4	19.6
<i>of which: pumped storage</i>	-	-	-	-	-	-	-	-
Geothermal	-	50.7	48.2	71.5	81.1	63.4	50.1	66.6
Solar PV	-	-	-	-	-	-	-	4.9
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	-	19.8	32.1	25.2	29.6	31.3	26.8
Other (e.g. fuel cells)	-	-	-	-	-	-	60.6	56.2
Combustible fuels	50.6	41.1	66.8	53.9	55.1	57.0	50.7	54.7
Of which autoproducers	22.6	32.1	60.8	48.0	45.2	47.3	43.6	1877.6
Nuclear	-	-	-	-	-	-	-	-
Hydro	27.6	10.4	18.0	16.9	25.7	34.8	22.6	-
<i>of which: pumped storage</i>	-	-	-	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-	-
Solar PV	-	-	-	-	-	-	-	-
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	-	45.7	22.8	22.8	22.8	9.1	-
Other (e.g. fuel cells)	-	-	-	-	-	-	60.6	106.5
Combustible fuels	22.5	32.3	61.4	53.1	49.3	49.8	47.5	3716.7

1. The capacity factor is defined as: the annual gross electricity generation (in GWh) divided by the net capacity (in GW) times 365 (days/year) times 24 (hours/day)

Turkey**Table 9a. Electricity imports by origin (GWh)**

	1974	1990	2000	2005	2010	2012	2013	2014
Total imports	-	176	3791	636	1144	5827	7429	7953
Total from OECD	-	-	-	-	-	4	173	4
Austria	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-
Canada	-	-	-	-	-	-	-	-
Czech Republic	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-
Greece	-	-	-	-	-	4	173	4
Hungary	-	-	-	-	-	-	-	-
Ireland	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-
Luxembourg	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-
Poland	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-
Slovak Republic	-	-	-	-	-	-	-	-
Slovenia	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-
Switzerland	-	-	-	-	-	-	-	-
Turkey	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-
United States	-	-	-	-	-	-	-	-
Total from non-OECD	-	176	3501	101	459	4323	4851	5697
Albania	-	-	-	-	-	-	-	-
Azerbaijan	-	-	-	-	156	277	277	102
Belarus	-	-	-	-	-	-	-	-
Bulgaria	-	-	3297	-	-	3967	4571	5301
Croatia	-	-	-	-	-	-	-	-
F.Y.R. of Macedonia	-	-	-	-	-	-	-	-
Georgia	-	176	204	101	303	79	3	294
Latvia	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-
Romania	-	-	-	-	-	-	-	-
Russian Federation	-	-	-	-	-	-	-	-
Serbia	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-
Turkmenistan	-	-	-	-	-	-	-	-
Ukraine	-	-	-	-	-	-	-	-
Non-specified/others	-	-	290	535	685	1500	2405	2252

Turkey

Table 9b. Electricity exports by destination (GWh)

	1974	1990	2000	2005	2010	2012	2013	2014
Total exports	-	907	437	1798	1918	2954	1227	2696
Total to OECD	-	-	-	-	-	1705	805	1910
Austria	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-
Canada	-	-	-	-	-	-	-	-
Czech Republic	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-
Greece	-	-	-	-	-	1705	805	1910
Hungary	-	-	-	-	-	-	-	-
Ireland	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-
Luxembourg	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-
Poland	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-
Slovak Republic	-	-	-	-	-	-	-	-
Slovenia	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-
Switzerland	-	-	-	-	-	-	-	-
Turkey	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-
United States	-	-	-	-	-	-	-	-
Total to non-OECD	-	907	437	393	629	1249	-	1
Albania	-	84	-	-	-	-	-	-
Azerbaijan	-	-	437	384	-	13	-	-
Belarus	-	-	-	-	-	-	-	-
Bulgaria	-	506	-	-	-	2	-	-
Croatia	-	-	-	-	-	-	-	-
F.Y.R. of Macedonia	-	-	-	-	-	-	-	-
Georgia	-	122	-	9	-	-	-	1
Latvia	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-
Romania	-	195	-	-	-	-	-	-
Russian Federation	-	-	-	-	-	-	-	-
Serbia	-	-	-	-	-	-	-	-
Syria	-	-	-	-	629	1234	-	-
Turkmenistan	-	-	-	-	-	-	-	-
Ukraine	-	-	-	-	-	-	-	-
Non-specified/others	-	-	-	1405	1289	-	422	785

Turkey

Table 10a. Share of electricity in total final consumption (%)

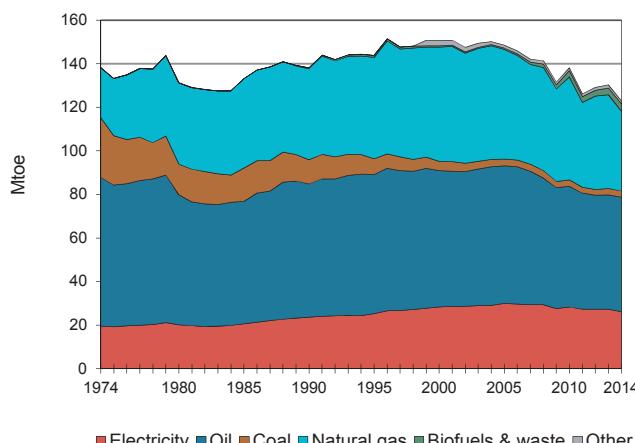
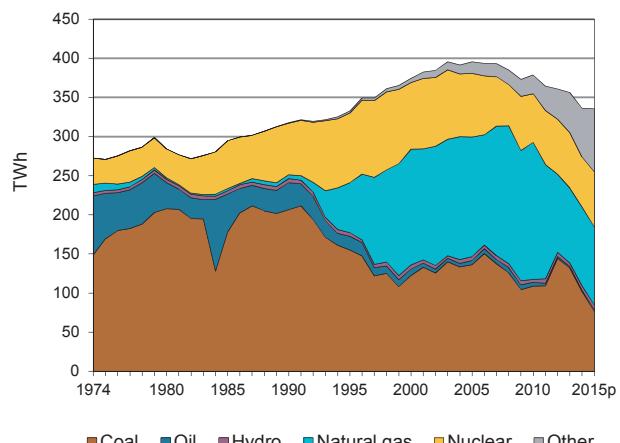
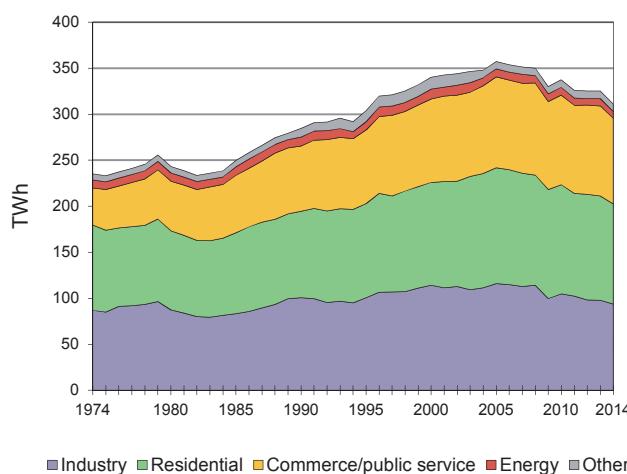
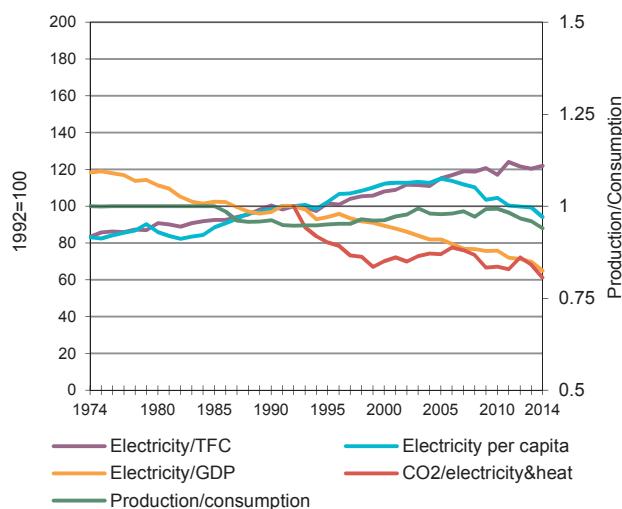
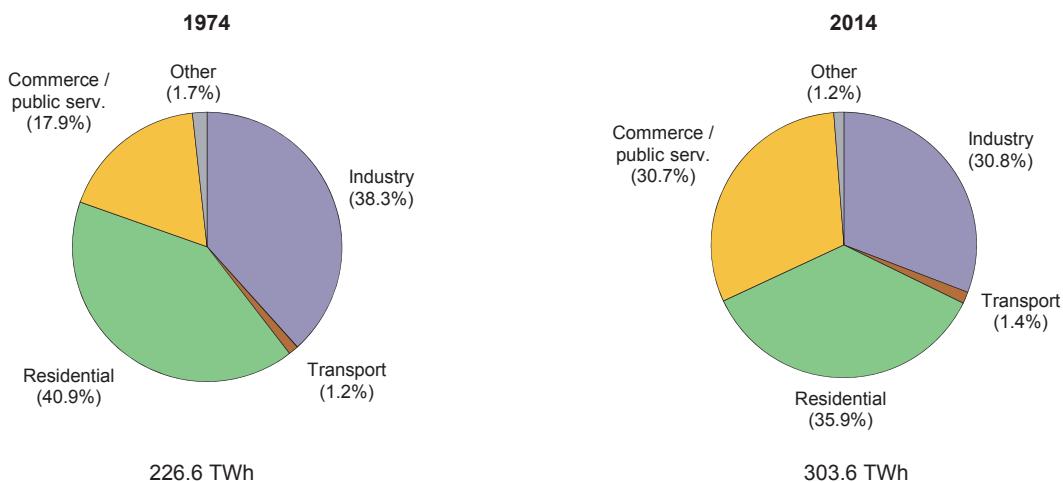
	1974	1990	2000	2005	2010	2012	2013	2014
Share of total final consumption	4.5	9.7	14.3	16.9	18.8	19.0	19.8	20.6
Industry	15.7	21.6	20.1	24.6	29.3	30.1	32.4	32.3
Iron and steel	20.3	24.6	30.9	40.1	36.4	42.1	44.5	47.8
Chem. and petrochemical	13.5	19.3	16.6	14.1	26.1	16.8	18.5	19.0
Non-ferrous metals	80.2	31.4	30.7	22.7	28.0	23.9	35.7	33.2
Non-metallic minerals	100.0	63.3	48.2	43.4	41.2	42.7	19.9	19.4
Transport equipment
Machinery	93.2	77.4	87.1	84.5	86.1	93.6	92.1	91.9
Mining and quarrying	100.0	100.0	100.0	100.0	57.8	52.8	58.0	54.9
Food and tobacco	32.9	21.8	22.8	29.1	29.9	30.5	36.7	34.0
Paper, pulp and printing	34.6	33.3	55.1	50.2	45.3	46.8
Wood and wood products	100.0	100.0	100.0	100.0	33.7	94.1	54.6	54.8
Construction	0.8	2.5	7.9	5.3	7.5	8.0	43.5	47.6
Textile and leather	34.2	40.1	56.8	66.3	69.3	64.0	62.1	59.0
Non specified/other	2.0	6.7	7.0	13.6	14.6	18.1	21.2	21.1
Transport	0.2	0.3	0.6	0.5	0.4	0.4	0.4	0.4
Rail Transport	1.2	11.5	24.4	8.3	18.0	26.7	28.2	28.5
Pipeline Transport	-	-	-	9.3	9.8	9.9	5.7	4.7
Road	-	-	-	-	-	-	-	-
Transport Non Specified	-	-	-	100.0	-	-	-	-
Other sectors	2.7	8.7	18.5	21.1	23.9	23.5	26.0	27.3
Commercial & publ. serv.	51.3	99.9	82.0	58.5	68.2	40.7	45.6	46.6
Residential	1.3	5.4	11.7	13.8	15.9	17.8	19.5	20.8
Agriculture	0.6	2.5	9.1	10.5	9.5	10.8	9.8	9.9
Fishing	-	-	-	100.0	83.3	17.3	16.2	4.9
Sector non specified	100.0	100.0	-	-	-	-	-	-

Table 10b. Share of heat in total final consumption (%)

	1974	1990	2000	2005	2010	2012	2013	2014
Share of total final consumption	-	-	0.7	1.3	1.6	1.4	1.5	2.4
Industry	-	-	2.0	4.0	5.4	4.8	5.1	7.9
Iron and steel	-	-	-	-	-	-	-	-
Chem. and petrochemical	-	-	-	-	-	-	-	-
Non-ferrous metals	-	-	-	-	-	-	-	-
Non-metallic minerals	-	-	-	-	-	-	-	-
Transport equipment	-	-	-	-	-	-	-	-
Machinery	-	-	-	-	-	-	-	-
Mining and quarrying	-	-	-	-	-	-	-	-
Food and tobacco	-	-	-	-	-	-	-	-
Paper, pulp and printing	-	-	-	-	-	-	-	-
Wood and wood products	-	-	-	-	-	-	-	-
Construction	-	-	-	-	-	-	-	-
Textile and leather	-	-	-	-	-	-	-	-
Non specified/other	-	-	4.0	9.9	17.3	15.4	17.8	26.9
Transport	-	-	-	-	-	-	-	-
Other sectors	-	-	-	-	-	-	-	-
Commercial & publ. serv.	-	-	-	-	-	-	-	-
Residential	-	-	-	-	-	-	-	-
Agriculture	-	-	-	-	-	-	-	-
Fishing	-	-	-	-	-	-	-	-
Sector non specified	-	-	-	-	-	-	-	-

Source: IEA/OECD World Energy Balances.

United Kingdom

Figure 1. Total final consumption by fuel**Figure 2. Electricity generation by fuel****Figure 3. Electricity consumption by sector****Figure 4. Electricity indicators****Figure 5. Total final electricity consumption by sector**

United Kingdom

Table 1. Energy consumption, GDP and population

	1974	1990	2000	2010	2013	2014	2015p	74-00	00-15
TPES (Mtoe)	210.01	205.92	222.95	202.77	191.60	179.42	180.01	0.2	-1.4
GDP (billion 2005 USD)	1099.53	1613.57	2051.58	2403.58	2533.45	2605.73	2666.42	2.4	1.8
TPES/GDP ¹	0.19	0.13	0.11	0.08	0.08	0.07	0.07	-2.1	-3.1
Population (millions)	56.24	57.24	58.89	62.76	64.11	64.60	65.03	0.2	0.7
TPES/population ²	3.73	3.60	3.79	3.23	2.99	2.78	2.77	0.1	-2.1
TPES/GDP (2005 = 100)	202	135	115	89	80	73	71	-2.1	-3.1
Ele.TFC/GDP(2005=100) ³	139	115	109	93	85	79	..	-1.0	..
Ele.TFC/population ⁴	4032	4796	5596	5243	4949	4701	..	1.3	..
Elec. generated (TWh) ⁵	272.40	317.76	374.38	378.62	356.26	336.04	335.26	1.2	-0.7

Source: IEA/OECD *World Energy Balances* and OECD *Main Economic Indicators*.

Table 2. Total primary energy supply (TPES) by source

	1974	1990	2000	2010	2013	2014	2015p	74-00	00-15
TPES (Mtoe)	210.01	205.92	222.95	202.77	191.60	179.42	180.01	0.2	-1.4
Coal	68.08	63.11	36.52	30.77	37.20	29.90	24.02	-2.4	-2.8
Oil	102.78	76.37	73.22	62.82	57.87	58.60	59.98	-1.3	-1.3
Natural gas	30.04	47.19	87.37	85.03	65.66	59.77	61.29	4.2	-2.3
Biofuels & waste	-	0.63	1.92	6.51	8.14	9.12	9.86	-	11.5
Nuclear	8.76	17.13	22.17	16.19	18.40	16.61	18.33	3.6	-1.3
Geothermal	-	0.00	0.00	0.00	0.00	0.00	0.00	-	-
Solar, wind, tide ⁶	-	0.01	0.09	0.92	2.67	3.15	4.18	-	28.9
Hydro	0.35	0.45	0.44	0.31	0.40	0.51	0.54	0.9	1.5
Net electricity imports ⁷	0.00	1.03	1.22	0.23	1.24	1.76	1.80	24.3	2.6
Heat	-	-	-	-	-	-	-	-	-

Source: IEA/OECD *World Energy Balances*.

1. In units of toe/2005 thousand US dollars.
2. In units of toe/per capita.
3. Ele.TFC = electricity total final consumption.
4. In units of kWh/per capita.
5. Electricity generated = gross production - amount of electricity produced in pumped storage plants.
6. Includes wave, ocean and other (e.g. fuel cells).
7. Net Imports = total imports - total exports

United Kingdom

Table 3a. Summary electricity production and consumption¹ (TWh)

	1974	1990	2000	2005	2010	2013	2014	2015e
Gross production	273.13	319.74	377.07	398.36	381.77	359.17	338.93	337.70
- Own use by power plant	18.83	19.61	16.30	17.87	16.11	17.89	16.52	-
Net production	254.30	300.13	360.77	380.48	365.66	341.28	322.41	-
- Used for heat pumps	-	-	-	-	-	-	-	-
- Used for electric boilers	-	-	-	-	-	-	-	-
- Used for pumped storage	0.90	2.63	3.50	3.71	4.21	3.93	3.88	3.35
+ Imports	0.23	11.99	14.31	11.16	7.14	17.53	23.24	22.72
- Exports	0.18	0.05	0.13	2.84	4.48	3.10	2.72	1.78
Electrical energy supplied	253.46	309.45	371.44	385.10	364.11	351.78	339.04	..
- Transmission & distr. losses	18.22	25.03	31.14	27.90	26.61	26.69	28.01	..
- Statistical difference	-	-	-	0.00	0.00	0.00	-	..
Total consumption	235.23	284.42	340.30	357.20	337.50	325.09	311.03	..
Energy industry consumption²	8.59	9.98	10.88	8.52	8.54	7.96	7.47	..
Coal Mines	4.43	4.66	1.28	1.17	1.04	0.87	0.78	..
Oil + Gas Extraction	-	0.40	0.53	0.51	0.56	0.57	0.52	..
Patent Fuel Plants	-	-	-	-	-	-	-	..
Coke Ovens	0.23	-	-	-	-	-	-	..
BKB plants	-	-	-	-	-	-	-	..
Gas Works	0.51	-	-	-	-	-	-	..
Blast Furnaces	-	0.81	0.88	0.52	0.30	0.44	0.44	..
Oil Refineries	3.42	3.91	6.36	4.46	5.03	4.68	4.55	..
Nuclear Industry	-	0.09	0.12	0.09	0.05	0.04	0.03	..
Coal Liquefaction Plants	-	-	-	-	-	-	-	..
LNG/Regasification Plants	-	-	-	-	-	-	-	..
Energy - Non Specified	-	0.12	1.71	1.78	1.56	1.36	1.15	..
Final consumption	226.65	274.43	329.42	348.68	328.96	317.13	303.56	..
Industry	86.87	100.64	114.11	116.03	104.65	97.82	93.53	..
Iron and steel	12.15	9.07	6.35	5.02	3.84	3.80	3.79	..
Chem. and petrochemical	20.03	18.19	23.73	21.13	18.45	17.27	16.03	..
Non-ferrous metals	7.26	6.71	6.15	7.69	6.73	4.43	4.46	..
Non-metallic minerals	4.84	7.51	8.11	7.98	7.27	6.73	6.39	..
Transport equipment	5.61	-	6.32	5.84	5.28	5.07	4.69	..
Machinery	10.78	20.90	15.62	16.05	14.31	13.24	12.60	..
Mining and quarrying	1.72	-	-	-	0.13	0.15	0.15	..
Food and tobacco	6.62	10.94	11.72	12.27	11.52	11.08	10.41	..
Paper, pulp and printing	5.59	7.98	11.42	13.23	10.95	10.81	10.53	..
Wood and wood products	0.80	-	-	-	-	-	-	..
Construction	0.72	1.28	1.59	1.93	1.62	1.46	1.37	..
Textile and leather	5.65	3.03	3.60	3.39	3.05	2.89	2.71	..
Non specified/other	5.10	15.03	19.51	21.50	21.50	20.89	20.40	..
Transport	2.71	5.28	8.62	4.06	4.25	4.27	4.26	..
Rail Transport	2.71	2.70	2.70	4.04	4.23	4.24	4.19	..
Pipeline Transport	-	-	-	-	-	-	-	..
Road	-	-	-	0.02	0.02	0.03	0.07	..
Transport Non Specified	-	2.58	5.92	-	-	-	-	..
Commercial & publ. serv.	92.63	93.79	111.84	125.71	118.83	113.45	108.88	..
Residential	40.49	70.87	90.49	98.88	97.19	97.72	93.17	..
Agriculture	3.94	3.84	4.36	4.00	4.03	3.87	3.73	..
Fishing	-	-	-	-	-	-	-	..
Sector non specified	-	-	-	-	-	-	-	..

1. Electricity generation from main activity producer power plants and autoproducers .

2. Energy industry consumption = electricity consumed by transformation industries for heating, traction and lighting purposes;

excludes own use by power plant and electricity used for heat pumps, electric boilers and pumped storage.

United Kingdom

Table 3b. Summary heat production and consumption¹ (TJ)

	1974	1990	2000	2005	2010	2013	2014	2015e
Gross production	-	-	102110	57184	56968	64117	68024	68024
- Own use by power plant	-	-	-	-	-	-	-	-
Net production	-	-	102110	57184	56968	64117	68024	-
- Used for electricity production	-	-	-	-	-	-	-	-
+ Imports	-	-	-	-	-	-	-	-
- Exports	-	-	-	-	-	-	-	-
Heat energy supplied	-	-	102110	57184	56968	64117	68024	..
- Transmission & distr. losses	-	-	-	-	-	-	-	..
- Statistical difference	-	-	-	-	2	-1	-	..
Total consumption	-	-	102110	57184	56966	64118	68024	..
Energy industry consumption²	-	-	-	4096	3945	6680	11947	..
Coal Mines	-	-	-	-	-	-	-	..
Oil + Gas Extraction	-	-	-	-	-	-	-	..
Patent Fuel Plants	-	-	-	-	-	-	-	..
Coke Ovens	-	-	-	-	-	-	-	..
BKB plants	-	-	-	-	-	-	-	..
Gas Works	-	-	-	-	-	-	-	..
Blast Furnaces	-	-	-	-	-	-	-	..
Oil Refineries	-	-	-	2992	3945	6680	11947	..
Nuclear Industry	-	-	-	-	-	-	-	..
Coal Liquefaction Plants	-	-	-	-	-	-	-	..
LNG/Regasification Plants	-	-	-	-	-	-	-	..
Energy - Non Specified	-	-	-	1104	-	-	-	..
Final consumption	-	-	102110	53088	53021	57438	56077	..
Industry	-	-	46030	34772	34422	38555	37497	..
Iron and steel	-	-	-	-	-	-	-	..
Chem. and petrochemical	-	-	45529	16407	17368	21336	19556	..
Non-ferrous metals	-	-	-	-	-	-	-	..
Non-metallic minerals	-	-	73	-	-	-	-	..
Transport equipment	-	-	-	-	-	-	-	..
Machinery	-	-	-	113	-	-	-	..
Mining and quarrying	-	-	-	-	-	-	-	..
Food and tobacco	-	-	-	30	47	3	-	..
Paper, pulp and printing	-	-	-	1277	59	-	-	..
Wood and wood products	-	-	-	-	-	-	-	..
Construction	-	-	-	-	-	-	-	..
Textile and leather	-	-	428	-	-	-	-	..
Non specified/other	-	-	-	16945	16948	17216	17941	..
Transport	-	-	-	-	-	-	-	..
Commercial & publ. serv.	-	-	54220	16142	16425	16709	16406	..
Residential	-	-	1860	2174	2174	2174	2174	..
Agriculture	-	-	-	-	-	-	-	..
Fishing	-	-	-	-	-	-	-	..
Sector non specified	-	-	-	-	-	-	-	..

1. Heat generation from main activity producer power plants and autoproducers.

2. Energy industry consumption = electricity consumed by transformation industries for heating, traction and lighting purposes;

excludes own use by power plant and electricity used for heat pumps, electric boilers and pumped storage.

United Kingdom

Table 4a. Gross electricity production by source (TWh)

	1974	1990	2000	2010	2013	2014	2015e	74-00	00-15
Total plants gross production¹	273.13	319.74	377.07	381.77	359.17	338.93	337.70	1.2	-0.7
Nuclear	33.62	65.75	85.06	62.14	70.61	63.75	70.35	3.6	-1.3
Hydro	4.80	7.19	7.78	6.72	7.61	8.77	8.76	1.9	0.8
- Of which pumped storage	0.73	1.98	2.69	3.15	2.90	2.88	2.44	5.2	-0.6
Geothermal	-	-	-	-	-	-	-	-	-
Solar	-	-	0.00	0.04	1.99	4.05	7.56	-	81.4
Wind	-	0.01	0.95	10.26	28.42	32.02	40.44	-	28.4
Combustible fuels	234.72	246.79	283.28	302.62	250.54	230.34	210.59	0.7	-2.0
- Coal	..	206.44 e	122.30	108.80	131.99	102.01	76.89	..	-3.0
- Oil	..	34.68 e	8.45	4.95	1.86	1.67	1.81	..	-9.8
- Natural gas	..	5.00 e	148.08	175.33	95.81	100.67	99.75	..	-2.6
- Biofuels & waste	..	0.68	4.46	13.54	20.88	25.99	32.15	..	14.1
Other ²	-	-	-	0.00	0.01	0.00	0.00	-	-
Of which autoproducers	22.67	21.24	39.39	41.64	38.70	42.75	..	2.1	..
Nuclear	4.22	4.44	-	-	-	-	..	-	..
Hydro	0.57	0.81	0.76	0.86	1.09	1.25	..	1.1	..
- Of which pumped storage	-	-	-	-	-	-	..	-	..
Geothermal	-	-	-	-	-	-	..	-	..
Solar	-	-	0.00	0.04	1.99	4.05	..	-	..
Wind	-	0.01	0.95	2.05	4.46	5.25	..	-	..
Combustible fuels	17.88	15.98	37.69	38.69	31.15	32.20	..	2.9	..
- Coal	..	5.11 e	5.28	4.86	1.78	1.86
- Oil	..	5.20 e	6.03	2.68	1.12	1.14
- Natural gas	..	5.00 e	22.37	21.30	17.18	16.45
- Biofuels & waste	..	0.68	4.02	9.86	11.07	12.75
Other ²	-	-	-	0.00	0.01	0.00	..	-	..

Table 4b. Gross heat production by source (PJ)

	1974	1990	2000	2010	2013	2014	2015e	74-00	00-15
Total plants heat generation³	-	-	102.11	56.97	64.12	68.02	68.02	-	-2.7
Nuclear	-	-	-	-	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-	-	-
Combustible fuels	-	-	102.11	56.97	64.12	68.02	68.02	-	-2.7
- Coal	..	-	19.64	8.13	10.69	9.56	9.56	..	-4.7
- Oil	..	-	20.76	1.59	1.69	1.87	1.87	..	-14.8
- Natural gas	..	-	61.71	46.28	50.24	54.69	54.69	..	-0.8
- Biofuels & waste	..	-	-	0.97	1.50	1.91	1.91	..	-
Chemical processes	-	-	-	-	-	-	-	-	-
Heat pumps	-	-	-	-	-	-	-	-	-
Electric boilers	-	-	-	-	-	-	-	-	-
Other sources	-	-	-	-	-	-	-	-	-
Of which Autoproducers	-	-	102.11	56.97	64.12	68.02	..	-	..
Nuclear	-	-	-	-	-	-	..	-	..
Geothermal	-	-	-	-	-	-	..	-	..
Combustible fuels	-	-	102.11	56.97	64.12	68.02	..	-	..
- Coal	..	-	19.64	8.13	10.69	9.56
- Oil	..	-	20.76	1.59	1.69	1.87
- Natural gas	..	-	61.71	46.28	50.24	54.69
- Biofuels & waste	..	-	-	0.97	1.50	1.91
Chemical processes	-	-	-	-	-	-	..	-	..
Heat pumps	-	-	-	-	-	-	..	-	..
Electric boilers	-	-	-	-	-	-	..	-	..
Other sources	-	-	-	-	-	-	..	-	..

1. Electricity generated from main activity producer power plants and autoproducers.

2. Includes wave, ocean and other sources (e.g. fuel cells, electricity from chemical heat).

3. Total heat generation = gross production of heat from main activity producer + heat sold in autoproducers.

United Kingdom

Table 5. Net electricity production by autoproducers (GWh)

	1974	1990	2000	2010	2012	2013	2014	74-00	00-14
Total	16814	19524	37548	39677	38868	36344	40039	3.1	0.5
Total energy	-	4194	10103	19794	17484	16467	19146	-	4.7
Coal mines	-	-	-	-	-	-	-	-	-
Oil and gas extraction	-	-	-	-	-	-	-	-	-
Patent fuel plants	-	-	-	-	-	-	-	-	-
Coke ovens	-	-	-	-	-	-	-	-	-
Gas works	-	-	-	-	-	-	-	-	-
BKB	-	1982	5521	5158	4415	4895	4183	-	-2.0
Oil refineries	-	-	-	-	-	-	-	-	-
Energy non specified/other	-	-	-	-	-	-	-	-	-
Total industry	16196	13499	23336	14989	14627	11814	11133	1.4	-5.1
Iron and steel	2049	1138	2531	1494	1606	1824	1791	0.8	-2.4
Chemical and petrochemical	7477	7131	10505	4538	4670	4122	3063	1.3	-8.4
Non-ferrous metals	-	1759	2698	3605	3051	715	758	-	-8.7
Non-metallic minerals	-	80	457	85	107	104	102	-	-10.2
Transport equipment	354	52	170	155	138	154	149	-2.8	-0.9
Machinery	96	35	565	262	107	114	108	7.1	-11.1
Mining and quarrying	236	42	245	228	174	153	154	0.1	-3.3
Food and tobacco	490	1033	2038	2059	2099	2098	2162	5.6	0.4
Pulp and printing	2443	1786	3764	2239	2352	2100	2287	1.7	-3.5
Wood and wood products	-	-	-	-	-	-	-	-	-
Construction	-	-	-	-	-	-	-	-	-
Textile and leather	459	9	103	5	5	7	7	-5.6	-17.5
Non specified/other industries	2592	434	260	319	318	423	552	-8.5	5.5
Total transport	-	-	-	-	-	-	-	-	-
Rail	-	-	-	-	-	-	-	-	-
Pipeline	-	-	-	-	-	-	-	-	-
Transport non specified	-	-	-	-	-	-	-	-	-
Other	618	1831	4109	4894	6757	8063	9760	7.6	6.4
Commerce and pub. services	-	1230	2353	2121	3166	3701	4619	-	4.9
Residential	-	-	-	47	1030	1332	1893	-	-
Agriculture	-	80	579	-	-	-	-	-	-
Fishing	-	-	-	-	-	-	-	-	-
Sector non specified	618	521	1177	2726	2561	3030	3248	2.5	7.5

Notes: Data reported in this table prior to 1990 may refer to combustible fuels only.

United Kingdom

Table 6a. Electricity production from combustible fuels in electricity plants¹

	1990	2000	2005	2010	2012	2013	2014	90-00	00-14
Steam coal									
Fuel input (1000 t)	83330 e	45990	51843	41291	54660	49857	38216	-5.8	-1.3
Fuel input (TJ)	1961834 e	1135944	1288558	976309	1315422	1194666	912502	-5.3	-1.6
Electricity production (GWh)	202884 e	119289	133987	107090	142447	130214	100159	-5.2	-1.2
Lignite									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
Coal manufactured gases²									
Fuel input (TJ)	20962 e	35005	39304	24072	31884	37847	36857	5.3	0.4
Electricity production (GWh)	1324	1921	1476	732	840	980	985	3.8	-4.7
Other coal products³									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
Oil and petroleum products									
Fuel input (1000 t)	7108 e	815	810	674	423	246	172	-19.5	-10.5
Fuel input (TJ)	302815 e	33041	33617	25331	16247	9456	7165	-19.9	-10.3
Electricity production (GWh)	30176 e	2584	2993	2335	1173	771	546	-21.8	-10.5
Natural gas²									
Fuel input (TJ)	31446 e	1032197	1022929	1201939	648172	628388	675572	41.8	-3.0
Electricity production (GWh)	2198 e	128687	130392	155077	81946	80295	85622	50.2	-2.9
Solid biofuels									
Fuel input (TJ)	-	6742	39846	47063	59971	81372	112465	-	22.3
Electricity production (GWh)	-	541	3382	4553	6508	10167	13852	-	26.1
Industrial waste									
Fuel input (TJ)	-	-	4672	1041	4103	5935	5151	-	-
Electricity production (GWh)	-	-	779	176	265	365	380	-	-
Municipal waste									
Fuel input (TJ)	3244	15937	18989	23109	26249	20900	20774	17.3	1.9
Electricity production (GWh)	223	1304	1424	1678	1719	1343	1923	19.3	2.8
Biogases and liquid biofuels									
Fuel input (TJ)	1718	27038	53742	64754	70510	74558	76664	31.7	7.7
Electricity production (GWh)	139	2188	4338	5551	6971	6927	7429	31.7	9.1
Total combustible fuels									
Electricity production (GWh)	236944 e	256514	278771	277192	241869	231062	210896	0.8	-1.4

1. Excludes CHP plants.

2. Coal manufactured gases and natural gas are expressed on a gross calorific value basis.

3. Includes Coking coal as well as peat and peat products, patent fuels, BKB and shale oil

United Kingdom

**Table 6b. Electricity and heat produced for sale from combustible fuels
in combined heat and power plants (CHP plants)**

	1990	2000	2005	2010	2012	2013	2014	90-00	00-14
Steam coal									
Fuel input (1000 t)	684 e	208	215	207	241	185	184	-11.2	-0.9
Fuel input (TJ)	15257 e	5147	5344	4894	5800	4433	4393	-10.3	-1.1
Electricity production (GWh)	1780 e	661	650	604	710	654	686	-9.4	0.3
CHP Heat production (TJ)	-	-	-	-	-	-	-	-	-
Lignite									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
CHP Heat production (TJ)	-	-	-	-	-	-	-	-	-
Coal manufactured gases¹									
Fuel input (TJ)	2755 e	2640	2158	4120	1642	1483	1501	-0.4	-4.0
Electricity production (GWh)	450	429	223	371	184	138	184	-0.5	-5.9
CHP Heat production (TJ)	-	-	-	-	-	-	-	-	-
Other coal products²									
Fuel input (1000 t)	-	-	-	-	-	-	-	-	-
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
CHP Heat production (TJ)	-	-	-	-	-	-	-	-	-
Petroleum products									
Fuel input (1000 t)	862 e	685	367	470	271	302	297	-2.3	-5.8
Fuel input (TJ)	36818 e	28588	16219	21726	12342	12950	12775	-2.5	-5.6
Electricity production (GWh)	4500 e	5862	2346	2612	1328	1090	1124	2.7	-11.1
CHP Heat production (TJ)	-	-	-	-	-	-	-	-	-
Natural gas¹									
Fuel input (TJ)	20364 e	136230	171039	155696	131382	114370	110651	20.9	-1.5
Electricity production (GWh)	2800 e	19390	22248	20255	17850	15517	15048	21.4	-1.8
CHP Heat production (TJ)	-	-	-	-	-	-	-	-	-
Solid Biofuels									
Fuel input (TJ)	-	-	-	-	-	-	-	-	-
Electricity production (GWh)	-	-	-	-	-	-	-	-	-
CHP Heat production (TJ)	-	-	-	-	-	-	-	-	-
Industrial waste									
Fuel input (TJ)	-	-	10117	1398	9210	6722	3271	-	-
Electricity production (GWh)	-	-	1198	314	287	261	285	-	-
CHP Heat production (TJ)	-	-	-	-	-	-	-	-	-
Municipal waste									
Fuel input (TJ)	-	357	1334	6417	7970	10924	11956	-	28.5
Electricity production (GWh)	-	55	118	696	881	1205	1450	-	26.3
CHP Heat production (TJ)	-	-	-	-	-	-	-	-	-
Biogases and liquid biofuels									
Fuel input (TJ)	3904	4537	5132	7309	7748	6948	7774	1.5	3.9
Electricity production (GWh)	316	367	419	574	625	612	669	1.5	4.4
CHP Heat production (TJ)	-	-	-	-	-	-	-	-	-
Total combustible fuels									
Electricity production (GWh)	9846 e	26764	27202	25426	21865	19477	19446	10.5	-2.3
CHP Heat production (TJ)	-	-	-	-	-	-	-	-	-

1. Coal manufactured gases and natural gas are expressed on a gross calorific value basis.

2. Includes Coking coal as well as peat and peat products, patent fuels, BKB and shale oil

United Kingdom

Table 6c. Heat produced for sale from combustible fuels in heat plants¹

	1990	2000	2005	2010	2012	2013	2014	90-00	00-14
Steam coal									
Fuel input (1000 t)	..	656	459	477	461	609	516	-	-1.7
Fuel input (TJ)	..	17239	11382	11495	11381	15038	12745	-	-2.1
Heat production (TJ)	..	12438	7327	6926	7119	9431	8265	-	-2.9
Lignite									
Fuel input (1000 t)	..	-	-	-	-	-	-	-	-
Fuel input (TJ)	..	-	-	-	-	-	-	-	-
Heat production (TJ)	..	-	-	-	-	-	-	-	-
Coal manufactured gases²									
Fuel input (TJ)	..	8748	2151	2151	2151	2151	2151	-	-9.5
Heat production (TJ)	..	7203	1287	1206	1252	1255	1298	-	-11.5
Other coal products³									
Fuel input (1000 t)	..	-	-	-	-	-	-	-	-
Fuel input (TJ)	..	-	-	-	-	-	-	-	-
Heat production (TJ)	..	-	-	-	-	-	-	-	-
Petroleum products									
Fuel input (1000 t)	..	710	61 e	62	75	65	68	-	-15.4
Fuel input (TJ)	..	28770	2585	2632	3243	2690	2877	-	-15.2
Heat production (TJ)	..	20757	1665	1586	2028	1686	1866	-	-15.8
Natural gas²									
Fuel input (TJ)	..	89608	80958	85346	90328	89018	93700	-	0.3
Heat production (TJ)	..	61712	46905	46277	50849	50243	54689	-	-0.9
Solid biofuels									
Fuel input (TJ)	..	-	-	65	2193	294	228	-	-
Heat production (TJ)	..	-	-	39	1372	184	148	-	-
Industrial waste									
Fuel input (TJ)	..	-	-	-	-	-	-	-	-
Heat production (TJ)	..	-	-	-	-	-	-	-	-
Municipal waste									
Fuel input (TJ)	..	-	-	1549	2496	2102	2710	-	-
Heat production (TJ)	..	-	-	934	1561	1318	1758	-	-
Biogases and liquid biofuels									
Fuel input (TJ)	..	-	-	-	-	-	-	-	-
Heat production (TJ)	..	-	-	-	-	-	-	-	-
Total combustible fuels									
Heat production (TJ)	..	102110	57184	56968	64181	64117	68024	-	-2.9

1. Excludes CHP plants

2. Coal manufactured gases and natural gas are expressed on a gross calorific value basis.

3. Includes Coking coal as well as peat and peat products, patent fuels, BKB and shale oil

United Kingdom

Table 7. Net maximum electricity generating capacity on 31 December (GW)

	1974	1990	2000	2005	2010	2012	2013	2014
Total capacity¹	74.22	73.21	78.39	82.38	93.75	95.97	95.11	97.01
Nuclear	4.28	11.35	12.49	11.85	10.87	9.95	9.91	9.94
Hydro	2.41	3.90	4.27	4.29	4.39	4.44	4.45	4.47
<i>of which: pumped storage</i>	-	2.79	2.79	2.79	2.74	2.74	2.74	2.74
Geothermal	-	-	-	-	-	-	-	-
Solar PV	-	-	-	0.01	0.10	1.76	2.85	5.38
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	0.01	0.41	1.57	5.40	8.90	11.21	12.99
Other (e.g. fuel cells)	-	-	-	-	-	-	-	-
Combustible fuels	67.53	57.95	61.22	64.66	73.00	70.93	66.68	64.24
<i>of which⁽²⁾:</i>								
<i>Single-fired:</i>								
Coal and Coal products	45.12	35.40	25.90	23.57	24.13	24.16	22.68	20.93
Liquid fuels	18.93	15.92	5.19	5.45	6.33	4.94	3.94	4.04
Natural gas	-	-	21.14	26.45	34.03	35.36	35.13	33.78
Biofuels & waste	-	0.12	0.79	1.61	1.10	1.98	2.63	3.05
<i>Multi-fired:</i>								
Solid / liquid	1.92	5.41	7.14	6.64	6.38	3.39	1.40	1.43
Solid / natural gas	1.57	0.37	0.33	0.30	0.33	0.34	0.28	0.31
Liquid / natural gas	-	0.73	0.73	0.65	0.72	0.75	0.62	0.69
Solid / liquid / gas	-	-	-	-	-	-	-	-
<i>Type of generation</i>								
Steam	-	53.86	36.50	32.78	33.10	28.80	24.64	22.97
Internal combustion	-	0.17	0.18	0.16	0.12	0.12	0.11	0.12
Gas turbine	-	3.80	2.56	1.84	2.07	1.94	2.06	2.04
Combined cycle	-	-	21.14	26.45	34.03	35.36	35.13	33.78
Other	-	0.12	0.84	3.43	3.68	4.71	4.75	5.32
<i>Peak load</i>	..	54.07	58.45	61.70	60.89	57.49	53.42	53.86
Of which Autoproducers	5.08	4.18	6.36	8.37	7.77	9.67	11.29	13.95
Nuclear	0.54	0.62	-	-	-	-	-	-
Hydro	0.11	0.10	0.16	0.16	0.18	0.22	0.23	0.25
<i>of which: pumped storage</i>	-	-	-	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-	-
Solar PV	-	-	-	0.01	0.10	1.76	2.85	5.38
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	0.01	0.41	1.57	1.06	1.28	2.04	2.45
Other (e.g. fuel cells)	-	-	-	-	-	-	-	-
Combustible fuels	4.43	3.45	5.79	6.63	6.43	6.41	6.17	5.88

1. Sum of available capacity figures

2. Breakdown of electrical capacity by type of fuel are shown in the individual country chapters.

United Kingdom**Table 8. Capacity factors (%)**

	1974	1990	2000	2005	2010	2012	2013	2014
Total plants¹	42.0	49.9	54.9	55.2	46.5	43.3	43.1	39.9
Nuclear	89.6	66.1	77.8	78.6	65.3	80.8	81.4	73.2
Hydro	22.7	21.1	20.8	20.9	17.5	21.2	19.5	22.4
<i>of which: pumped storage</i>	-	8.1	11.0	12.0	13.1	12.3	12.1	12.0
Geothermal	-	-	-	-	-	-	-	-
Solar PV	-	-	5.7	8.3	4.9	8.8	8.0	8.6
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	22.8	15.2	22.8	7.6
Wind	-	10.3	26.2	21.2	21.7	25.4	28.9	28.1
Other (e.g. fuel cells)	-	-	-	-	-	-	-	-
Combustible fuels	39.7	48.6	52.8	54.0	47.3	42.5	42.9	40.9
Of which autoproducers	51.0	58.0	70.7	61.9	61.1	48.6	39.1	35.0
Nuclear	90.1	81.8	-	-	-	-	-	-
Hydro	60.3	92.0	54.6	79.2	53.5	58.4	54.0	58.0
<i>of which: pumped storage</i>	-	-	-	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-	-
Solar PV	-	-	5.7	8.3	4.9	8.8	8.0	8.6
Solar thermal	-	-	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	22.8	15.2	22.8	7.6
Wind	-	10.3	26.2	21.2	22.0	24.1	25.0	24.5
Other (e.g. fuel cells)	-	-	-	-	-	-	-	-
Combustible fuels	46.0	52.9	74.3	71.2	68.7	64.1	57.7	62.6

1. The capacity factor is defined as: the annual gross electricity generation (in GWh) divided by the net capacity (in GW) times 365 (days/year) times 24 (hours/day)

United Kingdom**Table 9a. Electricity imports by origin (GWh)**

	1974	1990	2000	2005	2010	2012	2013	2014
Total imports	225	11990	14308	11160	7144	13743	17532	23244
Total from OECD	225	11990	14308	11160	7144	13743	17532	23244
Austria	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-
Canada	-	-	-	-	-	-	-	-
Czech Republic	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-
France	225	11990	14267	11159	6998	7550	10837	14965
Germany	-	-	-	-	-	-	-	-
Greece	-	-	-	-	-	-	-	-
Hungary	-	-	-	-	-	-	-	-
Ireland	-	-	41	1	146	163	217	412
Italy	-	-	-	-	-	-	-	-
Luxembourg	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	6030	6478	7867
Norway	-	-	-	-	-	-	-	-
Poland	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-
Slovak Republic	-	-	-	-	-	-	-	-
Slovenia	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-
Switzerland	-	-	-	-	-	-	-	-
Turkey	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-
United States	-	-	-	-	-	-	-	-
Total from non-OECD	-	-	-	-	-	-	-	-
Albania	-	-	-	-	-	-	-	-
Azerbaijan	-	-	-	-	-	-	-	-
Belarus	-	-	-	-	-	-	-	-
Bulgaria	-	-	-	-	-	-	-	-
Croatia	-	-	-	-	-	-	-	-
F.Y.R. of Macedonia	-	-	-	-	-	-	-	-
Georgia	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-
Romania	-	-	-	-	-	-	-	-
Russian Federation	-	-	-	-	-	-	-	-
Serbia	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-
Turkmenistan	-	-	-	-	-	-	-	-
Ukraine	-	-	-	-	-	-	-	-
Non-specified/others	-	-	-	-	-	-	-	-

United Kingdom**Table 9b. Electricity exports by destination (GWh)**

	1974	1990	2000	2005	2010	2012	2013	2014
Total exports	175	47	134	2839	4481	1872	3102	2723
Total to OECD	175	47	134	2839	4481	1872	3102	2723
Austria	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-
Canada	-	-	-	-	-	-	-	-
Czech Republic	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-
France	175	47	1	765	4103	1185	534	13
Germany	-	-	-	-	-	-	-	-
Greece	-	-	-	-	-	-	-	-
Hungary	-	-	-	-	-	-	-	-
Ireland	-	-	133	2074	378	420	2425	2699
Italy	-	-	-	-	-	-	-	-
Luxembourg	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	267	143	11
Norway	-	-	-	-	-	-	-	-
Poland	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-
Slovak Republic	-	-	-	-	-	-	-	-
Slovenia	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-
Switzerland	-	-	-	-	-	-	-	-
Turkey	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-
United States	-	-	-	-	-	-	-	-
Total to non-OECD	-							
Albania	-	-	-	-	-	-	-	-
Azerbaijan	-	-	-	-	-	-	-	-
Belarus	-	-	-	-	-	-	-	-
Bulgaria	-	-	-	-	-	-	-	-
Croatia	-	-	-	-	-	-	-	-
F.Y.R. of Macedonia	-	-	-	-	-	-	-	-
Georgia	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-
Romania	-	-	-	-	-	-	-	-
Russian Federation	-	-	-	-	-	-	-	-
Serbia	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-
Turkmenistan	-	-	-	-	-	-	-	-
Ukraine	-	-	-	-	-	-	-	-
Non-specified/others	-							

United Kingdom

Table 10a. Share of electricity in total final consumption (%)

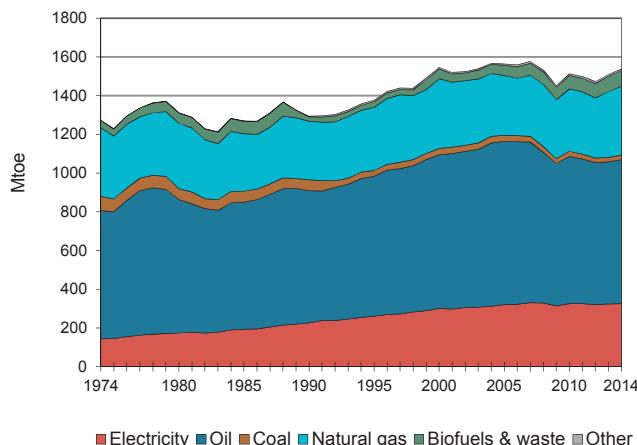
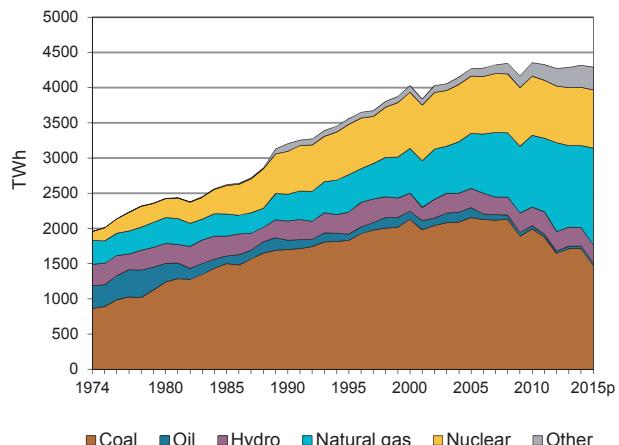
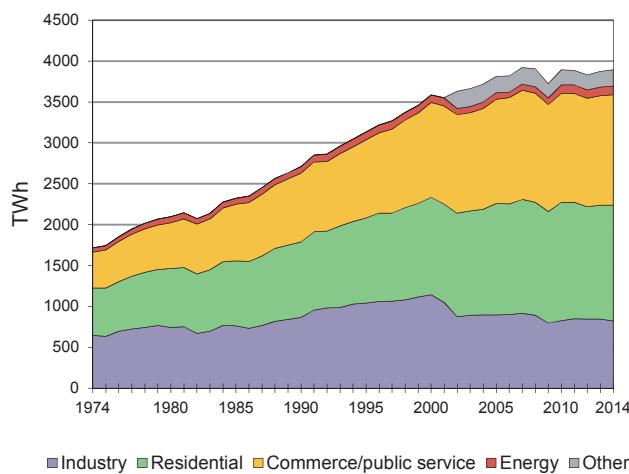
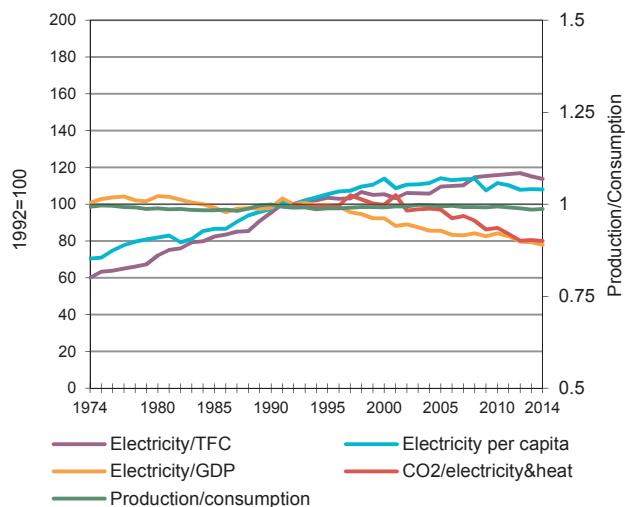
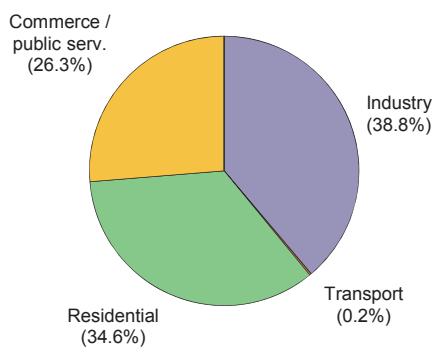
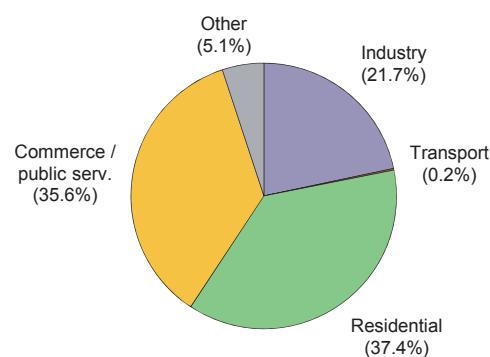
	1974	1990	2000	2005	2010	2012	2013	2014
Share of total final consumption	14.1	17.1	18.8	20.2	20.5	21.2	20.9	21.2
Industry	15.5	26.9	28.7	32.2	35.7	36.7	36.0	34.8
Iron and steel	14.1	15.8	15.7	19.4	19.7	20.2	20.4	19.9
Chem. and petrochemical	20.7	31.1	29.4	34.5	43.0	47.3	45.5	44.1
Non-ferrous metals	30.7	49.3	47.6	67.4	78.5	73.1	70.0	69.6
Non-metallic minerals	7.6	18.4	25.2	23.0	21.4	22.4	21.8	21.0
Transport equipment	23.3	-	34.7	34.6	51.9	47.7	43.5	41.9
Machinery	17.7	47.6	50.5	55.1	65.6	63.2	63.4	62.2
Mining and quarrying	21.0	-	-	-	100.0	100.0	100.0	100.0
Food and tobacco	12.3	26.3	30.0	31.9	36.6	36.0	35.3	34.2
Paper, pulp and printing	14.9	33.4	42.0	42.0	56.0	58.6	55.8	55.6
Wood and wood products	40.0	-	-	-	-	-	-	-
Construction	6.3	12.3	17.0	30.2	22.6	21.2	19.5	18.7
Textile and leather	19.4	24.2	28.2	29.7	34.2	34.0	34.0	32.4
Non specified/other	8.0	27.8	22.0	23.1	24.2	25.9	26.6	25.5
Transport	0.9	1.2	1.8	0.8	0.9	0.9	0.9	0.9
Rail Transport	18.5	27.0	28.0	35.3	36.7	36.3	36.9	36.6
Pipeline Transport	-	-	-	-	-	-	-	-
Road	-	-	-	-	-	0.0	0.0	0.0
Transport Non Specified	-	100.0	100.0	-	-	-	-	-
Other sectors	23.3	25.9	28.0	30.8	29.2	30.8	30.4	33.3
Commercial & publ. serv.	28.3	47.3	46.2	50.8	47.8	48.2	47.8	50.4
Residential	23.2	21.6	22.4	24.5	22.5	24.1	23.8	26.7
Agriculture	19.1	25.9	32.7	36.9	37.5	37.1	34.2	32.9
Fishing	-	-	-	-	-	-	-	-
Sector non specified	-	-	-	-	-	-	-	-

Table 10b. Share of heat in total final consumption (%)

	1974	1990	2000	2005	2010	2012	2013	2014
Share of total final consumption	-	-	1.6	0.9	0.9	1.0	1.1	1.1
Industry	-	-	3.2	2.7	3.3	3.3	3.9	3.9
Iron and steel	-	-	-	-	-	-	-	-
Chem. and petrochemical	-	-	15.6	7.4	11.2	10.6	15.6	14.9
Non-ferrous metals	-	-	-	-	-	-	-	-
Non-metallic minerals	-	-	0.1	-	-	-	-	-
Transport equipment	-	-	-	-	-	-	-	-
Machinery	-	-	-	0.1	-	-	-	-
Mining and quarrying	-	-	-	-	-	-	-	-
Food and tobacco	-	-	-	0.0	0.0	0.1	-	-
Paper, pulp and printing	-	-	-	1.1	0.1	0.1	-	-
Wood and wood products	-	-	-	-	-	-	-	-
Construction	-	-	-	-	-	-	-	-
Textile and leather	-	-	0.9	-	-	-	-	-
Non specified/other	-	-	-	5.1	5.3	6.2	6.1	6.2
Transport	-	-	-	-	-	-	-	-
Other sectors	-	-	2.1	0.7	0.7	0.8	0.7	0.8
Commercial & publ. serv.	-	-	7.7	2.3	2.3	2.4	2.3	2.5
Residential	-	-	0.1	0.1	0.1	0.1	0.1	0.2
Agriculture	-	-	-	-	-	-	-	-
Fishing	-	-	-	-	-	-	-	-
Sector non specified	-	-	-	-	-	-	-	-

Source: IEA/OECD World Energy Balances.

United States

Figure 1. Total final consumption by fuel**Figure 2. Electricity generation by fuel****Figure 3. Electricity consumption by sector****Figure 4. Electricity indicators****Figure 5. Total final electricity consumption by sector****1974****2014**

United States

Table 1. Energy consumption, GDP and population

	1974	1990	2000	2010	2013	2014	2015p	74-00	00-15
TPES (Mtoe)	1691.50	1915.05	2273.34	2215.22	2182.58	2216.19	2182.31	1.1	-0.3
GDP (billion 2005 USD)	5461.94	9064.41	12713.06	14964.37	15773.67	16156.62	16548.57	3.3	1.8
TPES/GDP ¹	0.31	0.21	0.18	0.15	0.14	0.14	0.13	-2.1	-2.0
Population (millions)	213.90	250.18	282.40	309.81	316.84	319.17	321.69	1.1	0.9
TPES/population ²	7.91	7.65	8.05	7.15	6.89	6.94	6.78	0.1	-1.1
TPES/GDP (2005 = 100)	192	131	111	92	86	85	82	-2.1	-2.0
Ele.TFC/GDP(2005=100) ³	118	112	106	98	92	91	..	-0.4	..
Ele.TFC/population ⁴	7806	10530	12396	12232	11895	11872	..	1.8	..
Elec. generated (TWh) ⁵	1957.34	3202.81	4025.89	4354.36	4287.11	4319.16	4292.12	2.8	0.4

Source: IEA/OECD *World Energy Balances* and OECD *Main Economic Indicators*.

Table 2. Total primary energy supply (TPES) by source

	1974	1990	2000	2010	2013	2014	2015p	74-00	00-15
TPES (Mtoe)	1691.50	1915.05	2273.34	2215.22	2182.58	2216.19	2182.31	1.1	-0.3
Coal	312.06	460.25	533.64	502.59	432.13	431.71	365.61	2.1	-2.5
Oil	781.55	756.84	871.15	805.61	771.73	782.28	798.40	0.4	-0.6
Natural gas	499.04	438.23	547.58	555.92	606.38	624.00	642.43	0.4	1.1
Biofuels & waste	37.77	62.26	73.23	88.71	102.70	105.23	101.23	2.6	2.2
Nuclear	31.60	159.38	207.89	218.63	214.22	216.46	216.39	7.5	0.3
Geothermal	2.24	14.10	13.09	8.44	8.83	8.98	9.15	7.0	-2.4
Solar, wind, tide ⁶	-	0.32	2.07 e	10.53 e	18.22 e	20.47 e	21.61	-	16.9
Hydro	26.15	23.49	21.78	22.55	23.29	22.49	21.77	-0.7	-0.0
Net electricity imports ⁷	1.09	0.17	2.92	2.23	5.07	4.58	5.72	3.9	4.6
Heat	-	-	-	-	-	-	-	-	-

Source: IEA/OECD *World Energy Balances*.

1. In units of toe/2005 thousand US dollars.
2. In units of toe/per capita.
3. Ele.TFC = electricity total final consumption.
4. In units of kWh/per capita.
5. Electricity generated = gross production - amount of electricity produced in pumped storage plants.
6. Includes wave, ocean and other (e.g. fuel cells).
7. Net Imports = total imports - total exports

United States

Table 3a. Summary electricity production and consumption¹ (TWh)

	1974	1990	2000	2005	2010	2013	2014	2015e
Gross production	1957.34	3218.62 e	4052.67 e	4294.37 e	4378.43 e	4306.37 e	4339.21 e	4312.20
- Own use by power plant	90.20	188.78	235.94 e	206.41	219.47	212.97	216.82	-
Net production	1867.14	3029.84 e	3816.73 e	4087.96 e	4158.96 e	4093.40 e	4122.39 e	-
- Used for heat pumps	-	-	-	-	-	-	-	-
- Used for electric boilers	-	-	-	-	-	-	-	-
- Used for pumped storage	-	22.58	31.74	32.04	29.57	23.94	26.23	25.18
+ Imports	15.42	22.51	48.59	44.53	45.08	70.36	66.51	75.60
- Exports	2.73	20.53	14.68	19.80	19.11	11.35	13.30	9.15
Electrical energy supplied	1879.83	3009.24 e	3818.90 e	4080.65 e	4155.37 e	4128.47 e	4149.38 e	..
- Transmission & distr. losses	162.98	296.68	229.12 e	269.16	261.00	255.32	255.32	..
- Statistical difference	-	-	-	-	-	-	-	..
Total consumption	1716.86	2712.56 e	3589.78 e	3811.49 e	3894.37 e	3873.14 e	3894.06 e	..
Energy industry consumption²	47.72	78.98	90.32	79.96	106.05	105.58	106.26	..
Coal Mines	8.41	14.06	12.92	9.42	12.48	10.69	10.10	..
Oil + Gas Extraction	13.60	32.34	28.68	27.38	28.90	30.68	32.00	..
Patent Fuel Plants	-	-	-	-	-	-	-	..
Coke Ovens	-	-	-	0.54	0.53	0.54	0.53	..
BKB plants	-	-	-	-	-	-	-	..
Gas Works	-	-	-	-	-	-	-	..
Blast Furnaces	-	-	-	3.45	3.27	3.35	3.31	..
Oil Refineries	25.71	32.58	48.72	36.60	46.23	46.08	46.08	..
Nuclear Industry	-	-	-	-	-	-	-	..
Coal Liquefaction Plants	-	-	-	-	-	-	-	..
LNG/Regasification Plants	-	-	-	-	-	-	-	..
Energy - Non Specified	-	-	-	2.57	14.64	14.24	14.24	..
Final consumption	1669.14	2633.58 e	3499.46 e	3731.53 e	3788.32 e	3767.56 e	3787.79 e	..
Industry	648.09	866.54	1142.11	898.15	826.43	846.49	821.04	..
Iron and steel	72.78	72.89	75.54	54.80	44.17	46.91	46.35	..
Chem. and petrochemical	148.43	204.93	263.12	144.16	126.01	111.60	111.03	..
Non-ferrous metals	113.51	55.81	94.35	69.08	40.16	68.56	71.39	..
Non-metallic minerals	29.19	34.31	39.88	44.36	30.06	30.85	31.88	..
Transport equipment	28.43	38.38	60.18	52.02	42.65	49.00	50.23	..
Machinery	51.26	119.78	137.54	124.62	142.58	140.59	140.91	..
Mining and quarrying	26.37	33.58	36.96	27.69	33.77	31.83	32.24	..
Food and tobacco	38.18	59.62	75.83	82.49	77.28	74.26	74.05	..
Paper, pulp and printing	50.23	126.25	133.24	81.99	70.47	59.30	56.58	..
Wood and wood products	18.76	28.75	32.85	23.32	18.41	18.88	19.51	..
Construction	-	-	-	33.43	55.81	54.83	55.31	..
Textile and leather	35.84	37.34	38.19	29.61	17.00	16.73	16.71	..
Non specified/other	35.12	54.92	154.44 e	130.59	128.06	143.14	114.87	..
Transport	3.94	4.13	4.42	6.22	6.42	7.23	7.61	..
Rail Transport	3.94	4.13	4.42	6.13	6.32	6.63	6.72	..
Pipeline Transport	-	-	-	-	-	-	-	..
Road	-	-	-	0.08	0.10	0.60	0.88	..
Transport Non Specified	-	-	-	-	-	-	-	..
Commercial & publ. serv.	578.18	924.02	1192.45	1359.23	1445.71	1391.03	1416.98	..
Residential	438.92	838.89	1160.31	1275.08	1330.20	1338.39	1349.93	..
Agriculture	-	-	-	41.05	38.39	29.70	27.67	..
Fishing	-	-	-	-	-	-	-	..
Sector non specified	-	-	0.18 e	151.81 e	141.17 e	154.72 e	164.57 e	..

1. Electricity generation from main activity producer power plants and autoproducers.

2. Energy industry consumption = electricity consumed by transformation industries for heating, traction and lighting purposes;

excludes own use by power plant and electricity used for heat pumps, electric boilers and pumped storage.

United States

Table 3b. Summary heat production and consumption¹ (TJ)

	1974	1990	2000	2005	2010	2013	2014	2015e
Gross production	-	101308	323778 e	249773	508287 e	453413	428607	440862
- Own use by power plant	-	-	-	49955	101453	93714	85721	-
Net production	-	101308	323778 e	199818	406834 e	359699	342886	-
- Used for electricity production	-	-	-	-	-	-	-	-
+ Imports	-	-	-	-	-	-	-	-
- Exports	-	-	-	-	-	-	-	-
Heat energy supplied	-	101308	323778 e	199818	406834 e	359699	342886	..
- Transmission & distr. losses	-	11238 e	48567 e	29973 e	61024 e	53955 e	51433	..
- Statistical difference	-	-	-	-	-	-	-1	..
Total consumption	-	90070 e	275211 e	169845 e	345810 e	305744 e	291454	..
Energy industry consumption²	-	- e	54059 e	33362 e	67926 e	60056 e	57249	..
Coal Mines	-	-	-	-	-	-	-	..
Oil + Gas Extraction	-	-	-	-	-	-	-	..
Patent Fuel Plants	-	-	-	-	-	-	-	..
Coke Ovens	-	-	-	-	-	-	-	..
BKB plants	-	-	-	-	-	-	-	..
Gas Works	-	-	-	-	-	-	-	..
Blast Furnaces	-	-	-	-	-	-	-	..
Oil Refineries	-	- e	54059 e	33362 e	67926 e	60056 e	57249	..
Nuclear Industry	-	-	-	-	-	-	-	..
Coal Liquefaction Plants	-	-	-	-	-	-	-	..
LNG/Regasification Plants	-	-	-	-	-	-	-	..
Energy - Non Specified	-	-	-	-	-	-	-	..
Final consumption	-	90070 e	221152 e	136483 e	277884 e	245688 e	234205	..
Industry	-	- e	174743 e	107842 e	219571 e	194131 e	185058	..
Iron and steel	-	- e	6413 e	3958 e	8060 e	7126 e	6793	..
Chem. and petrochemical	-	- e	107079 e	66085 e	134553 e	118962 e	113402	..
Non-ferrous metals	-	- e	3425 e	2114 e	4304 e	3806 e	3628	..
Non-metallic minerals	-	- e	132 e	81 e	164 e	145 e	138	..
Transport equipment	-	- e	4225 e	2607 e	5308 e	4694 e	4475	..
Machinery	-	- e	3168 e	1955 e	3980 e	3519 e	3355	..
Mining and quarrying	-	-	-	-	-	-	-	..
Food and tobacco	-	- e	19307 e	11915 e	24259 e	21448 e	20445	..
Paper, pulp and printing	-	- e	16240 e	10022 e	20405 e	18041 e	17198	..
Wood and wood products	-	- e	8889 e	5486 e	11168 e	9874 e	9412	..
Construction	-	-	-	-	-	-	-	..
Textile and leather	-	- e	5108 e	3152 e	6418 e	5674 e	5409	..
Non specified/other	-	- e	757 e	467 e	952 e	842 e	803	..
Transport	-	-	-	-	-	-	-	..
Commercial & publ. serv.	-	90070 e	46409 e	28641 e	58313 e	51557 e	49147	..
Residential	-	-	-	-	-	-	-	..
Agriculture	-	-	-	-	-	-	-	..
Fishing	-	-	-	-	-	-	-	..
Sector non specified	-	-	-	-	-	-	-	..

1. Heat generation from main activity producer power plants and autoproducers.

2. Energy industry consumption = electricity consumed by transformation industries for heating, traction and lighting purposes;

excludes own use by power plant and electricity used for heat pumps, electric boilers and pumped storage.

United States

Table 4a. Gross electricity production by source (TWh)

	1974	1990	2000	2010	2013	2014	2015e	74-00	00-15
Total plants gross production¹	1957.34	3218.62	4052.67	4378.43	4306.37	4339.21	4312.20	2.8	0.4
Nuclear	121.25	611.59	797.72	838.93	822.00	830.58	830.35	7.5	0.3
Hydro	304.07	288.96	279.99	286.33	290.11	281.53	273.27	-0.3	-0.2
- Of which pumped storage	-	15.81	26.78	24.07	19.26	20.05	20.08	-	-1.9
Geothermal	2.60	16.01	14.62	17.58	18.42	18.71	18.59	6.9	1.6
Solar	-	0.67	0.71 e	3.94 e	15.87 e	24.60 e	27.09	-	27.5
Wind	-	3.07	5.65	95.15 e	169.71	183.89	193.28	-	26.6
Combustible fuels	1529.41	2298.33 e	2953.98 e	3132.76	2985.89	2995.56	2964.69	2.6	0.0
- Coal	..	1699.65 e	2129.50 e	1994.19 e	1712.41 e	1712.58	1473.97	-	-2.4
- Oil	..	130.65	118.48	48.09	36.86	39.88	38.38	..	-7.2
- Natural gas	..	381.67	634.29	1017.87	1158.45	1161.33	1373.57	..	5.3
- Biofuels & waste	..	86.36	71.71	72.61	78.17	81.77	78.78	..	0.6
Other ²	-	-	-	3.74	4.36	4.34	4.93	-	-
Of which autoproducers	-	230.65	190.55	163.96	177.99	172.68	..	-	..
Nuclear	-	0.12	-	-	-	-	..	-	..
Hydro	-	6.24	4.28	1.78	3.53	1.33	..	-	..
- Of which pumped storage	-	-	-	-	-	-	..	-	..
Geothermal	-	6.92	-	-	-	-	..	-	..
Solar	-	0.66	0.18 e	2.64 e	6.96 e	6.78 e	..	-	-
Wind	-	3.07	-	0.02 e	0.10	0.16	..	-	..
Combustible fuels	-	213.66	186.09 e	156.18	163.54	160.49	..	-	-
- Coal	..	24.97 e	54.99 e	25.04 e	18.80 e	17.94	..	-	-
- Oil	..	5.44	6.39	8.30	8.37	8.41	..	-	..
- Natural gas	..	99.09	86.33	88.81	98.76	96.78	..	-	..
- Biofuels & waste	..	84.15	38.38	34.02	37.61	37.36	..	-	..
Other ²	-	-	-	3.34	3.85	3.93	..	-	..

Table 4b. Gross heat production by source (PJ)

	1974	1990	2000	2010	2013	2014	2015e	74-00	00-15
Total plants heat generation³	-	101.31	323.78 e	508.29	453.41	428.61	440.86	-	2.1
Nuclear	-	-	-	-	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-	-	-
Combustible fuels	-	101.31	323.78 e	508.29	453.41	428.61	440.86	-	2.1
- Coal	..	20.00 e	81.57 e	102.69 e	54.09 e	39.18	38.83	-	-4.8
- Oil	..	-	6.75 e	36.38	29.30	25.44	25.16	-	9.2
- Natural gas	..	-	208.34 e	325.22	328.18	317.43	333.52	-	3.2
- Biofuels & waste	..	-	27.12	44.01	41.84	46.55	43.35	..	3.2
Chemical processes	-	-	-	-	-	-	-	-	-
Heat pumps	-	-	-	-	-	-	-	-	-
Electric boilers	-	-	-	-	-	-	-	-	-
Other sources	-	-	-	-	-	-	-	-	-
Of which Autoproducers	-	13.65	-	-	-	-	..	-	..
Nuclear	-	-	-	-	-	-	..	-	..
Geothermal	-	-	-	-	-	-	..	-	..
Combustible fuels	-	13.65	-	-	-	-	..	-	..
- Coal	..	13.65 e	-	-	-	-	..	-	..
- Oil	..	-	-	-	-	-	..	-	..
- Natural gas	..	-	-	-	-	-	..	-	..
- Biofuels & waste	..	-	-	-	-	-	..	-	..
Chemical processes	-	-	-	-	-	-	..	-	..
Heat pumps	-	-	-	-	-	-	..	-	..
Electric boilers	-	-	-	-	-	-	..	-	..
Other sources	-	-	-	-	-	-	..	-	..

1. Electricity generated from main activity producer power plants and autoproducers.

2. Includes wave, ocean and other sources (e.g. fuel cells, electricity from chemical heat).

3. Total heat generation = gross production of heat from main activity producer + heat sold in autoproducers.

United States**Table 5. Net electricity production by autoproducers (GWh)**

	1974	1990	2000	2010	2012	2013	2014	74-00	00-14
Total	..	216177 e	185086 e	154947 e	164628 e	168893 e	162990 e	-	-0.9
Total energy	..	-	4203 e	25074	28124	28266	29392	-	14.9
Coal mines	..	-	-	-	-	-	-	..	-
Oil and gas extraction	..	-	-	6721	5828	6171	6205	..	-
Patent fuel plants	..	-	-	-	-	-	-	..	-
Coke ovens	..	-	-	-	-	-	-	..	-
Gas works	..	-	-	-	-	-	-	..	-
BKB	..	-	-	18353	22296	22095	23187	..	-
Oil refineries	..	-	-	-	-	-	-	..	-
Energy non specified/other	..	-	-	-	-	-	-	..	-
Total industry	..	178649	64725 e	118367	117945	121025	114351	-	4.1
Iron and steel	..	-	-	-	-	-	-	..	-
Chemical and petrochemical	..	-	-	58158	60160	61490	58950	..	-
Non-ferrous metals	..	-	-	-	-	-	-	..	-
Non-metallic minerals	..	-	-	216	243	199	189	..	-
Transport equipment	..	-	-	208	232	251	141	..	-
Machinery	..	-	-	43	82	83	65	..	-
Mining and quarrying	..	-	-	589	666	663	689	..	-
Food and tobacco	..	-	-	5779	6086	6328	6234	..	-
Pulp and printing	..	-	-	41295	40435	41352	39631	..	-
Wood and wood products	..	-	-	1355	1502	1477	1405	..	-
Construction	..	-	-	-	-	-	-	..	-
Textile and leather	..	-	-	570	200	225	202	..	-
Non specified/other industries	..	178649	64725 e	10154	8339	8957	6845	-	-14.8
Total transport	..	-	-	412	303	458	427	..	-
Rail	..	-	-	2	2	9	7	..	-
Pipeline	..	-	-	-	-	138	130	..	-
Transport non specified	..	-	-	410	301	311	290	..	-
Other	..	37528	116158	11094	18256	19144	18820	..	-12.2
Commerce and pub. services	..	-	-	8059	10652	11226	11066	..	-
Residential	..	-	-	103	140	124	142	..	-
Agriculture	..	-	-	258	291	285	321	..	-
Fishing	..	-	-	-	-	-	-	..	-
Sector non specified	..	37528	116158 e	2674 e	7173 e	7509 e	7291 e	-	-17.9

Notes: Data reported in this table prior to 1990 may refer to combustible fuels only.

United States

Table 6a. Electricity production from combustible fuels in electricity plants¹

	1990	2000	2005	2010	2012	2013	2014	90-00	00-14
Steam coal									
Fuel input (1000 t)	625552 e	805132 e	737419 e	806918	666638	700291	695022	2.6	-1.0
Fuel input (TJ)	15200225 e	19121463 e	16216502 e	17917708 e	14613811 e	15279698 e	15259640	2.3	-1.6
Electricity production (GWh)	1565896 e	1949674 e	1655132 e	1851544 e	1505819 e	1577671 e	1578946	2.2	-1.5
Lignite									
Fuel input (1000 t)	70943	68764	70492	61916	65725	63848	63938	-0.3	-0.5
Fuel input (TJ)	1061570	980785	1006316	888768	947835	926982	931529	-0.8	-0.4
Electricity production (GWh)	96038	94082	98384	87353	92745	91983	92600	-0.2	-0.1
Coal manufactured gases²									
Fuel input (TJ)	-	10047	13371	6526	8402	5586	7935	-	-1.7
Electricity production (GWh)	-	877	565	340	405	312	379	-	-5.8
Other coal products³									
Fuel input (1000 t)	-	-	116404	-	-	-	-	-	-
Fuel input (TJ)	-	-	3159199	-	-	-	-	-	-
Electricity production (GWh)	-	-	339607	-	-	-	-	-	-
Oil and petroleum products									
Fuel input (1000 t)	28779	25535	29834	9608	5992	7210	7890	-1.2	-8.0
Fuel input (TJ)	1324986	1072721	1196494	363330	227460	268916	297349	-2.1	-8.8
Electricity production (GWh)	125208	104552	117718	35469	21225	25331	27993	-1.8	-9.0
Natural gas²									
Fuel input (TJ)	3039619	4404832	5018801	6746971	8559633	7724841	7663850	3.8	4.0
Electricity production (GWh)	282576	426188	573857	805552	1036690	944763	943142	4.2	5.8
Solid biofuels									
Fuel input (TJ)	222206	113950	158327	166867	199989	197031	232952	-6.5	5.2
Electricity production (GWh)	11539	10512	9964	11173	11872	12908	15285	-0.9	2.7
Industrial waste									
Fuel input (TJ)	9138	10421	16649	14608	16807	16088	17016	1.3	3.6
Electricity production (GWh)	749	923	1548	822	897	851	788	2.1	-1.1
Municipal waste									
Fuel input (TJ)	162000	217946	239288	240076	249674	249658	245489	3.0	0.9
Electricity production (GWh)	9693	14525	15252	14899	15370	14992	14855	4.1	0.2
Biogases and liquid biofuels									
Fuel input (TJ)	30674	50532	65731	99886	119477	132611	148944	5.1	8.0
Electricity production (GWh)	2494	3905	5484	8560	10210	11465	12180	4.6	8.5
Total combustible fuels									
Electricity production (GWh)	2094193 e	2605238 e	2817511 e	2815712 e	2695233 e	2680276 e	2686168	2.2	0.2

1. Excludes CHP plants.

2. Coal manufactured gases and natural gas are expressed on a gross calorific value basis.

3. Includes Coking coal as well as peat and peat products, patent fuels, BKB and shale oil

United States

**Table 6b. Electricity and heat produced for sale from combustible fuels
in combined heat and power plants (CHP plants)**

	1990	2000	2005	2010	2012	2013	2014	90-00	00-14
Steam coal									
Fuel input (1000 t)	11445	30402 e	25436 e	23375	19254	18249	16942	10.3	-4.1
Fuel input (TJ)	302045	788540 e	595268 e	524444 e	400347 e	377386 e	347566	10.1	-5.7
Electricity production (GWh)	35063	75408 e	55185 e	51750 e	40798 e	38424 e	36842	8.0	-5.0
CHP Heat production (TJ)	19742	81572 e	33331 e	95149 e	61483 e	50302 e	39184	15.2	-5.1
Lignite									
Fuel input (1000 t)	1096 e	1246 e	-	-	7	7	7	1.3	-30.9
Fuel input (TJ)	16154 e	18583 e	-	-	102	112	100	1.4	-31.1
Electricity production (GWh)	2651 e	3134 e	-	-	9	10	9	1.7	-34.2
CHP Heat production (TJ)	258 e	-	-	-	-	-	-	-	-
Coal manufactured gases¹									
Fuel input (TJ)	-	83858 e	65596	38442	40970	34837	34219	-	-6.2
Electricity production (GWh)	-	6323	3814	3207	3654	4008	3801	-	-3.6
CHP Heat production (TJ)	-	-	16985	7540	6206	3789	-	-	-
Other coal products²									
Fuel input (1000 t)	-	-	274	-	-	-	-	-	-
Fuel input (TJ)	-	-	6785	-	-	-	-	-	-
Electricity production (GWh)	-	-	1269	-	-	-	-	-	-
CHP Heat production (TJ)	-	-	-	-	-	-	-	-	-
Petroleum products									
Fuel input (1000 t)	-	3926	5722	2243	2128	2107	2242	-	-3.9
Fuel input (TJ)	-	141818	228252	90213	85144	84456	90618	-	-3.1
Electricity production (GWh)	5441	13930	23572	12617	11845	11527	11884	9.9	-1.1
CHP Heat production (TJ)	-	6747 e	26682	36375	40057	29296	25437	-	9.9
Natural gas¹									
Fuel input (TJ)	1136099	1964502	2175816	1863246	2019338	1901856	1938431	5.6	-0.1
Electricity production (GWh)	99093	208102	208972	212317	227862	213691	218191	7.7	0.3
CHP Heat production (TJ)	-	208341 e	156067	325217	348540	328184	317434	-	3.1
Solid Biofuels									
Fuel input (TJ)	1153493	388431	352411	231045	235320	242069	251924	-10.3	-3.0
Electricity production (GWh)	57006	32074	31827	31363	31824	32627	33278	-5.6	0.3
CHP Heat production (TJ)	-	9489	11487	26954	26089	27494	29987	-	8.6
Industrial waste									
Fuel input (TJ)	71583	58985	27922	27133	28927	21776	21551	-1.9	-6.9
Electricity production (GWh)	3961	6247	4200	2725	2540	2290	2033	4.7	-7.7
CHP Heat production (TJ)	-	187	2061	3807	7137	4904	4938	-	26.3
Municipal waste									
Fuel input (TJ)	11829	39483	34990	30125	25301	25304	28765	12.8	-2.2
Electricity production (GWh)	920	2202	1762	1724	1590	1519	1736	9.1	-1.7
CHP Heat production (TJ)	-	15251	3035	11362	8647	8574	10633	-	-2.5
Biogases and liquid biofuels									
Fuel input (TJ)	-	12790	14729	15059	17859	15314	15489	-	1.4
Electricity production (GWh)	-	1325	1178	1340	1553	1519	1614	-	1.4
CHP Heat production (TJ)	-	2191	125	1883	2640	870	994	-	-5.5
Total combustible fuels									
Electricity production (GWh)	204135 e	348745 e	331779 e	317043 e	321675 e	305615 e	309388	5.5	-0.9
CHP Heat production (TJ)	20000 e	323778 e	249773 e	508287 e	500799 e	453413 e	428607	32.1	2.0

1. Coal manufactured gases and natural gas are expressed on a gross calorific value basis.

2. Includes Coking coal as well as peat and peat products, patent fuels, BKB and shale oil

United States**Table 6c. Heat produced for sale from combustible fuels in heat plants¹**

	1990	2000	2005	2010	2012	2013	2014	90-00	00-14
Steam coal									
Fuel input (1000 t)	-	-	-	-	-	-	..
Fuel input (TJ)	-	-	-	-	-	-	..
Heat production (TJ)	-	-	-	-	-	-	..
Lignite									
Fuel input (1000 t)	-	-	-	-	-	-	..
Fuel input (TJ)	-	-	-	-	-	-	..
Heat production (TJ)	-	-	-	-	-	-	..
Coal manufactured gases²									
Fuel input (TJ)	-	-	-	-	-	-	..
Heat production (TJ)	-	-	-	-	-	-	..
Other coal products³									
Fuel input (1000 t)	-	-	-	-	-	-	..
Fuel input (TJ)	-	-	-	-	-	-	..
Heat production (TJ)	-	-	-	-	-	-	..
Petroleum products									
Fuel input (1000 t)	-	-	-	-	-	-	..
Fuel input (TJ)	-	-	-	-	-	-	..
Heat production (TJ)	-	-	-	-	-	-	..
Natural gas²									
Fuel input (TJ)	-	-	-	-	-	-	..
Heat production (TJ)	-	-	-	-	-	-	..
Solid biofuels									
Fuel input (TJ)	-	-	-	-	-	-	..
Heat production (TJ)	-	-	-	-	-	-	..
Industrial waste									
Fuel input (TJ)	-	-	-	-	-	-	..
Heat production (TJ)	-	-	-	-	-	-	..
Municipal waste									
Fuel input (TJ)	-	-	-	-	-	-	..
Heat production (TJ)	-	-	-	-	-	-	..
Biogases and liquid biofuels									
Fuel input (TJ)	-	-	-	-	-	-	..
Heat production (TJ)	-	-	-	-	-	-	..
Total combustible fuels									
Heat production (TJ)	-	-	-	-	-	-	..

1. Excludes CHP plants

2. Coal manufactured gases and natural gas are expressed on a gross calorific value basis.

3. Includes Coking coal as well as peat and peat products, patent fuels, BKB and shale oil

United States

Table 7. Net maximum electricity generating capacity on 31 December (GW)

	1974	1990	2000	2005	2010	2012	2013	2014
Total capacity¹	420.10	733.59 e	811.35 e	978.54 e	1041.01 e	1067.88 e	1065.29 e	1073.44 e
Nuclear	31.66	99.64	97.86	99.99	101.17	101.89	99.24	98.57
Hydro	-	92.36	97.60	98.89	101.02	101.11	101.59	102.16
<i>of which: pumped storage</i>	-	-	26.57	29.99	30.82	31.00	31.02	31.12
Geothermal	-	2.67	2.79	2.29	2.41	2.59	2.61	2.51
Solar PV	-	- e	0.18 e	0.49 e	2.91 e	8.14 e	11.76 e	14.88 e
Solar thermal	-	0.34	0.42	0.39	0.47	0.48	1.29	1.67
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	1.91	2.38	8.71	39.13	59.08	59.97	64.23
Other (e.g. fuel cells)	-	-	-	0.48	0.35	1.26	1.54	2.01
Combustible fuels	388.44	536.67	610.12	767.32	793.55	793.35	787.30	787.41
<i>of which⁽²⁾:</i>								
<i>Single-fired:</i>								
Coal and Coal products	174.32	270.66	321.06 e	315.44	318.96	311.47	304.68	300.28
Liquid fuels	80.45	56.02	35.55	58.55	55.65	46.89	43.25	40.86
Natural gas	59.55	33.40	95.75	383.06	407.03	422.37	425.39	432.15
Biofuels & waste	0.06	7.58	10.27 e	10.26	11.91	12.63	13.98	14.12
<i>Multi-fired:</i>								
Solid / liquid	12.40	8.13	-	-	-	-	-	-
Solid / natural gas	12.07	26.03	-	-	-	-	-	-
Liquid / natural gas	47.27	131.71	147.49	-	-	-	-	-
Solid / liquid / gas	2.32	3.14	-	-	-	-	-	-
<u>Type of generation</u>								
Steam	-	463.71	464.37	449.17	438.84	421.90	411.32	404.39
Internal combustion	-	4.81	7.01	7.74	8.97	9.52	9.55	9.99
Gas turbine	-	47.23	81.93	131.76	138.02	139.74	142.75	142.54
Combined cycle	-	20.20	55.82	178.44	207.47	221.95	223.40	230.19
Other	-	0.71	0.99	0.21	0.24	0.24	0.29	0.30
<u>Peak load</u>	..	546.00	678.41	758.88	767.95	767.76	758.95	777.39
Of which Autoproducers	-	43.12 e	185.10 e	29.97 e	32.36 e	36.46 e	37.52 e	37.09 e
Nuclear	-	0.02	-	-	-	-	-	-
Hydro	-	1.48	1.07	0.69	0.36	0.66	0.68	0.31
<i>of which: pumped storage</i>	-	-	-	-	-	-	-	0.01
Geothermal	-	1.06	-	-	-	-	-	-
Solar PV	-	- e	0.17 e	0.48 e	2.52 e	5.55 e	6.62 e	6.45 e
Solar thermal	-	0.34	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	1.91	-	-	0.01	0.04	0.05	0.08
Other (e.g. fuel cells)	-	-	-	0.44	0.35	0.94	0.92	1.05
Combustible fuels	-	38.33	183.86	28.36	29.12	29.27	29.25	29.20

1. Sum of available capacity figures

2. Breakdown of electrical capacity by type of fuel are shown in the individual country chapters.

United States**Table 8. Capacity factors (%)**

	1974	1990	2000	2005	2010	2012	2013	2014
Total plants¹	53.2	50.1 e	57.0 e	50.1 e	48.0 e	45.9 e	46.2 e	46.2 e
Nuclear	43.7	70.1	93.1	92.6	94.7	89.8	94.6	96.2
Hydro	-	35.7	32.8	34.4	32.4	33.7	32.6	31.5
<i>of which: pumped storage</i>	-	-	19.8	16.4	14.8	12.1	11.8	12.2
Geothermal	-	68.5	59.8	83.8	83.4	79.9	80.7	85.0
Solar PV	-	- e	11.9 e	12.1 e	12.0 e	12.9 e	14.4 e	16.8 e
Solar thermal	-	22.3	14.3	17.5	21.3	23.0	9.0	18.4
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	18.3	27.1	23.5	27.8	27.4	32.3	32.7
Other (e.g. fuel cells)	-	-	-	15.5	123.2	37.6	32.3	24.7
Combustible fuels	45.0	48.9 e	55.3 e	46.9	45.1	43.4	43.3	43.4
Of which autoproducers	-	61.1 e	11.8 e	60.6 e	57.8 e	54.5 e	54.2 e	53.2 e
Nuclear	-	69.7	-	-	-	-	-	-
Hydro	-	48.3	45.8	55.4	56.2	41.3	59.5	49.7
<i>of which: pumped storage</i>	-	-	-	-	-	-	-	-
Geothermal	-	74.8	-	-	-	-	-	-
Solar PV	-	- e	12.0 e	12.0 e	12.0 e	12.0 e	12.0 e	12.0 e
Solar thermal	-	22.5	-	-	-	-	-	-
Tide, wave, ocean	-	-	-	-	-	-	-	-
Wind	-	18.3	-	-	15.2	21.7	22.8	24.0
Other (e.g. fuel cells)	-	-	-	16.8	109.9	43.8	47.8	42.7
Combustible fuels	-	63.6 e	11.6 e	62.3	61.2	63.3	63.8	62.7

1. The capacity factor is defined as: the annual gross electricity generation (in GWh) divided by the net capacity (in GW) times 365 (days/year) times 24 (hours/day)

United States**Table 9a. Electricity imports by origin (GWh)**

	1974	1990	2000	2005	2010	2012	2013	2014
Total imports	15420	22506	48592	44527	45083	59257	70355	66511
Total from OECD	15420 e	22506	48592	44527	45083	59257	70355	66511
Austria	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-
Canada	15420 e	20555	48515	42930	43763	57971	62539	59370
Czech Republic	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-
Greece	-	-	-	-	-	-	-	-
Hungary	-	-	-	-	-	-	-	-
Ireland	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-
Luxembourg	-	-	-	-	-	-	-	-
Mexico	-	1951	77	1597	1320	1286	7816	7141
Netherlands	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-
Poland	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-
Slovak Republic	-	-	-	-	-	-	-	-
Slovenia	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-
Switzerland	-	-	-	-	-	-	-	-
Turkey	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-
United States	-	-	-	-	-	-	-	-
Total from non-OECD	-	-	-	-	-	-	-	-
Albania	-	-	-	-	-	-	-	-
Azerbaijan	-	-	-	-	-	-	-	-
Belarus	-	-	-	-	-	-	-	-
Bulgaria	-	-	-	-	-	-	-	-
Croatia	-	-	-	-	-	-	-	-
F.Y.R. of Macedonia	-	-	-	-	-	-	-	-
Georgia	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-
Romania	-	-	-	-	-	-	-	-
Russian Federation	-	-	-	-	-	-	-	-
Serbia	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-
Turkmenistan	-	-	-	-	-	-	-	-
Ukraine	-	-	-	-	-	-	-	-
Non-specified/others	-	-	-	-	-	-	-	-

United States**Table 9b. Electricity exports by destination (GWh)**

	1974	1990	2000	2005	2010	2012	2013	2014
Total exports	2726	20526	14678	19803	19107	11995	11353	13298
Total to OECD	2726 e	20526	14678	19803	19107	11995	11353	13298
Austria	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-
Canada	2726 e	19936	12685	19332	18482	11392	10675	12861
Czech Republic	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-
Greece	-	-	-	-	-	-	-	-
Hungary	-	-	-	-	-	-	-	-
Ireland	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-
Luxembourg	-	-	-	-	-	-	-	-
Mexico	-	590	1993	471	625	603	678	437
Netherlands	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-
Poland	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-
Slovak Republic	-	-	-	-	-	-	-	-
Slovenia	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-
Switzerland	-	-	-	-	-	-	-	-
Turkey	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-
United States	-	-	-	-	-	-	-	-
Total to non-OECD	-	-	-	-	-	-	-	-
Albania	-	-	-	-	-	-	-	-
Azerbaijan	-	-	-	-	-	-	-	-
Belarus	-	-	-	-	-	-	-	-
Bulgaria	-	-	-	-	-	-	-	-
Croatia	-	-	-	-	-	-	-	-
F.Y.R. of Macedonia	-	-	-	-	-	-	-	-
Georgia	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-
Romania	-	-	-	-	-	-	-	-
Russian Federation	-	-	-	-	-	-	-	-
Serbia	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-
Turkmenistan	-	-	-	-	-	-	-	-
Ukraine	-	-	-	-	-	-	-	-
Non-specified/others	-	-	-	-	-	-	-	-

United States**Table 10a. Share of electricity in total final consumption (%)**

	1974	1990	2000	2005	2010	2012	2013	2014
Share of total final consumption	11.3	17.5	19.5	20.5	21.5	21.8	21.5	21.2
Industry	14.9	26.3	29.6	28.0	26.3	27.3	27.3	26.3
Iron and steel	14.4	33.1	22.9	27.2	22.5	25.0	23.6	23.0
Chem. and petrochemical	62.5	26.0	24.5	21.9	15.8	16.7	16.5	16.2
Non-ferrous metals	93.8	76.7	41.6	56.0	47.9	61.8	60.7	61.2
Non-metallic minerals	37.5	27.6	14.0	15.5	14.0	15.0	14.7	15.0
Transport equipment	59.8	77.9	39.1	48.1	49.2	50.8	50.4	49.8
Machinery	85.4	89.9	47.7	53.9	56.3	54.4	51.8	51.5
Mining and quarrying	92.9	100.0	100.0	60.7	61.2	33.0	35.1	34.6
Food and tobacco	50.1	55.3	23.8	24.9	22.6	24.3	23.0	22.4
Paper, pulp and printing	22.1	60.0	20.1	14.6	12.6	12.4	11.7	11.1
Wood and wood products	81.1	94.8	21.3	19.1	21.7	32.1	33.4	33.8
Construction	-	-	-	28.4	74.3	37.5	32.4	33.2
Textile and leather	84.9	85.2	37.9	47.5	49.9	53.2	53.2	53.1
Non specified/other	1.2	3.7	69.8 e	36.1	35.4	36.1	39.7	33.8
Transport	0.1							
Rail Transport	2.2	3.3	3.7	4.2	6.0	4.2	4.5	4.7
Pipeline Transport	-	-	-	-	-	-	-	-
Road	-	-	-	-	-	0.0	0.0	0.0
Transport Non Specified	-	-	-	-	-	-	-	-
Other sectors	21.5	37.6	42.8	47.9	49.7	51.6	49.0	48.3
Commercial & publ. serv.	26.1	45.3	51.7	54.7	55.2	57.4	55.3	54.1
Residential	21.8	37.9	38.8	43.0	46.0	47.6	44.4	43.9
Agriculture	-	-	-	15.9	15.1	13.3	12.3	11.8
Fishing	-	-	-	-	-	-	-	-
Sector non specified	-	-	1.0 e	100.0 e	100.0 e	100.0 e	100.0 e	100.0 e

Table 10b. Share of heat in total final consumption (%)

	1974	1990	2000	2005	2010	2012	2013	2014
Share of total final consumption	-	0.2	0.3	0.2	0.4	0.4	0.4	0.4
Industry	-	-	1.3	0.9	1.9	1.9	1.7	1.7
Iron and steel	-	-	0.5 e	0.6 e	1.1 e	1.1 e	1.0 e	0.9
Chem. and petrochemical	-	-	2.8 e	2.8 e	4.7 e	5.1 e	4.9 e	4.6
Non-ferrous metals	-	-	0.4 e	0.5 e	1.4 e	1.0 e	0.9 e	0.9
Non-metallic minerals	-	-	0.0 e	0.0				
Transport equipment	-	-	0.8 e	0.7 e	1.7 e	1.5 e	1.3 e	1.2
Machinery	-	-	0.3 e	0.2 e	0.4 e	0.4 e	0.4 e	0.3
Mining and quarrying	-	-	-	-	-	-	-	-
Food and tobacco	-	-	1.7 e	1.0 e	2.0 e	2.1 e	1.9 e	1.7
Paper, pulp and printing	-	-	0.7 e	0.5 e	1.0 e	1.1 e	1.0 e	0.9
Wood and wood products	-	-	1.6 e	1.2 e	3.7 e	5.5 e	4.9 e	4.5
Construction	-	-	-	-	-	-	-	-
Textile and leather	-	-	1.4 e	1.4 e	5.2 e	5.6 e	5.0 e	4.8
Non specified/other	-	-	0.1 e	0.0 e	0.1 e	0.1 e	0.1 e	0.1
Transport	-	-	-	-	-	-	-	-
Other sectors	-	0.5	0.2	0.1	0.3	0.3	0.2	0.2
Commercial & publ. serv.	-	1.4 e	0.6 e	0.3 e	0.7 e	0.7 e	0.6 e	0.6
Residential	-	-	-	-	-	-	-	-
Agriculture	-	-	-	-	-	-	-	-
Fishing	-	-	-	-	-	-	-	-
Sector non specified	-	-	-	-	-	-	-	-

Source: IEA/OECD World Energy Balances.

United States**Table 10a. Share of electricity in total final consumption (%)**

	1974	1990	2000	2005	2010	2012	2013	2014
Share of total final consumption	11.3	17.5	19.5	20.5	21.5	21.8	21.5	21.2
Industry	14.9	26.3	29.6	28.0	26.3	27.3	27.3	26.3
Iron and steel	14.4	33.1	22.9	27.2	22.5	25.0	23.6	23.0
Chem. and petrochemical	62.5	26.0	24.5	21.9	15.8	16.7	16.5	16.2
Non-ferrous metals	93.8	76.7	41.6	56.0	47.9	61.8	60.7	61.2
Non-metallic minerals	37.5	27.6	14.0	15.5	14.0	15.0	14.7	15.0
Transport equipment	59.8	77.9	39.1	48.1	49.2	50.8	50.4	49.8
Machinery	85.4	89.9	47.7	53.9	56.3	54.4	51.8	51.5
Mining and quarrying	92.9	100.0	100.0	60.7	61.2	33.0	35.1	34.6
Food and tobacco	50.1	55.3	23.8	24.9	22.6	24.3	23.0	22.4
Paper, pulp and printing	22.1	60.0	20.1	14.6	12.6	12.4	11.7	11.1
Wood and wood products	81.1	94.8	21.3	19.1	21.7	32.1	33.4	33.8
Construction	-	-	-	28.4	74.3	37.5	32.4	33.2
Textile and leather	84.9	85.2	37.9	47.5	49.9	53.2	53.2	53.1
Non specified/other	1.2	3.7	69.8 e	36.1	35.4	36.1	39.7	33.8
Transport	0.1							
Rail Transport	2.2	3.3	3.7	4.2	6.0	4.2	4.5	4.7
Pipeline Transport	-	-	-	-	-	-	-	-
Road	-	-	-	-	-	0.0	0.0	0.0
Transport Non Specified	-	-	-	-	-	-	-	-
Other sectors	21.5	37.6	42.8	47.9	49.7	51.6	49.0	48.3
Commercial & publ. serv.	26.1	45.3	51.7	54.7	55.2	57.4	55.3	54.1
Residential	21.8	37.9	38.8	43.0	46.0	47.6	44.4	43.9
Agriculture	-	-	-	15.9	15.1	13.3	12.3	11.8
Fishing	-	-	-	-	-	-	-	-
Sector non specified	-	-	1.0 e	100.0 e	100.0 e	100.0 e	100.0 e	100.0 e

Table 10b. Share of heat in total final consumption (%)

	1974	1990	2000	2005	2010	2012	2013	2014
Share of total final consumption	-	0.2	0.3	0.2	0.4	0.4	0.4	0.4
Industry	-	-	1.3	0.9	1.9	1.9	1.7	1.7
Iron and steel	-	-	0.5 e	0.6 e	1.1 e	1.1 e	1.0 e	0.9
Chem. and petrochemical	-	-	2.8 e	2.8 e	4.7 e	5.1 e	4.9 e	4.6
Non-ferrous metals	-	-	0.4 e	0.5 e	1.4 e	1.0 e	0.9 e	0.9
Non-metallic minerals	-	-	0.0 e	0.0				
Transport equipment	-	-	0.8 e	0.7 e	1.7 e	1.5 e	1.3 e	1.2
Machinery	-	-	0.3 e	0.2 e	0.4 e	0.4 e	0.4 e	0.3
Mining and quarrying	-	-	-	-	-	-	-	-
Food and tobacco	-	-	1.7 e	1.0 e	2.0 e	2.1 e	1.9 e	1.7
Paper, pulp and printing	-	-	0.7 e	0.5 e	1.0 e	1.1 e	1.0 e	0.9
Wood and wood products	-	-	1.6 e	1.2 e	3.7 e	5.5 e	4.9 e	4.5
Construction	-	-	-	-	-	-	-	-
Textile and leather	-	-	1.4 e	1.4 e	5.2 e	5.6 e	5.0 e	4.8
Non specified/other	-	-	0.1 e	0.0 e	0.1 e	0.1 e	0.1 e	0.1
Transport	-	-	-	-	-	-	-	-
Other sectors	-	0.5	0.2	0.1	0.3	0.3	0.2	0.2
Commercial & publ. serv.	-	1.4 e	0.6 e	0.3 e	0.7 e	0.7 e	0.6 e	0.6
Residential	-	-	-	-	-	-	-	-
Agriculture	-	-	-	-	-	-	-	-
Fishing	-	-	-	-	-	-	-	-
Sector non specified	-	-	-	-	-	-	-	-

Source: IEA/OECD Energy Balances.

COUNTRY SPECIFIC NET CALORIFIC VALUES

2014

Country specific net calorific values (kilojoule per kilogramme), 2014

	Australia	Austria	Belgium	Canada	Chile	Czech Republic	Denmark	Estonia	Finland
Crude oil									
Production	43985	42500	-	42790	43732	42401	43000	-	-
Imports	42655	42500	42153	42790	43133	42400	43000	-	42660
Exports	43985	-	-	42790	-	42400	43000	-	-
Average	43282	42500	42153	42790	43151	42400	43000	-	42660
NGL									
Refinery feedstocks	45410	42500	45200	45220	48095	-	-	-	44000
Additives	43282	41464	42153	42500	44799	40200	42700	-	42500
Other hydrocarbons	-	-	-	25120	22651	39500	-	-	42500
Biogasoline	41868	-	-	41868	-	-	-	39366	42500
Biodiesels	26800	29995	26860	26800	-	27000	-	26800	27631
Other liquid biofuels	36800	37466	38052	36800	-	37000	37500	-	43356
Anthracite	-	37466	37700	-	-	-	37200	-	49295
Production	26700	-	-	-	-	-	-	-	-
Imports	26700	26700	24283	26381	-	28756	-	-	27550
Exports	-	-	24283	-	-	30341	-	-	-
Main activity elec. generation	-	-	-	-	-	-	-	-	-
Industry	26700	-	24283	26381	-	28756	-	-	-
Other uses	26700	26700	24283	26381	-	28756	-	-	27550
Coking coal									
Production	28500	-	-	24781	-	28600	-	-	-
Imports	28000	29209	29250	28400	28591	28282	-	-	29300
Exports	28500	-	-	24781	-	28740	-	-	-
Coke ovens	28500	29206	29250	28400	28591	29468	-	-	29300
Main activity elec. generation	-	-	-	-	-	-	-	-	-
Industry	-	-	29250	24781	-	-	-	-	-
Other uses	28500	29206	29250	24781	28591	28709	-	-	29300
Other bituminous coal									
Production	25700	-	26292	27171	22000	25200	-	-	-
Imports	28794	27761	26292	27171	24810	21506	24700	27160	24795
Exports	25700	-	26292	27171	22000	26973	23646	-	-
Coke ovens	-	-	-	-	-	-	-	-	-
Main activity elec. generation	25700	27308	25637	27172	23698	22588	24487	27154	24732
Industry	25700	27810	26292	27171	25216	25200	24700	27154	24795
Other uses	25700	27761	26292	27171	25216	25200	26206	27154	24795
Sub-bituminous coal									
Production	18478	-	-	17897	-	-	-	-	-
Imports	-	21914	-	17897	-	-	-	-	-
Exports	-	-	-	17897	-	-	-	-	-
Main activity elec. generation	18478	-	-	17897	-	-	-	-	-
Industry	19195	21914	-	17897	-	-	-	-	-
Other uses	18478	21914	-	17897	-	-	-	-	-
Lignite									
Production	9800	-	-	14019	-	12337	-	-	-
Imports	-	9700	-	14019	-	11125	-	-	-
Exports	-	-	-	14019	-	17419	-	-	-
Main activity elec. generation	9800	-	-	14018	-	11401	-	-	-
Industry	-	9700	-	14019	-	12337	-	-	-
Other uses	9800	9700	-	14019	-	12337	-	-	-
Patent fuel									
Coke oven coke	-	31000	30480	-	-	-	-	-	-
Coal tar	27000	29006	29308	27457	28452	28456	29300	28500	29300
BKB	35714	37000	38519	-	40561	35340	-	-	37000
Peat	-	19800	20682	-	-	21149	-	-	-
Peat products	-	8800	-	-	-	-	-	9785	9986
Oil shale	-	-	-	-	-	-	-	15200	16900
Charcoal	-	28500	29300	-	30800	-	-	8840	-

Country specific net calorific values (kilojoule per kilogramme), 2014

	France	Germany	Greece	Hungary	Iceland	Ireland	Israel	Italy	Japan
Crude oil									
Production	41855	42757	38158	41800	-	-	42538	41860	42457
Imports	41855	42757	41540	41800	-	42814	42538	41860	42457
Exports	41855	42757	41860	41800	-	-	-	41860	-
Average	41855	42757	41228	41800	-	42814	42538	41860	42457
NGL									
Refinery feedstocks	42000	-	-	43000	-	-	-	-	46254
Additives	41855	42496	41318	41800	-	44589	44799	41860	42500
Other hydrocarbons	25120	25121	41318	-	-	-	-	25121	-
Biogasoline	-	-	-	40000	-	46749	-	-	-
Biodiesels	26800	26541	-	26600	-	26500	-	34892	-
Other liquid biofuels	36800	38004	37980	37500	42800	37273	-	37000	-
-	-	24673	-	-	-	-	-	36690	-
Anthracite									
Production	-	29700	-	-	-	-	-	-	-
Imports	-	29700	-	-	28050	29457	-	-	27246
Exports	-	29700	-	-	-	31982	-	-	-
Main activity elec. generation	-	29700	-	-	-	-	-	-	-
Industry	-	29700	-	-	28050	-	-	-	-
Other uses	-	29700	-	-	28050	28813	-	-	27246
Coking coal									
Production	-	29000	-	-	-	-	-	-	-
Imports	30500	29000	-	29411	-	-	-	30984	28076
Exports	-	29000	-	-	-	-	-	-	-
Coke ovens	30500	29000	-	29411	-	-	-	30984	28076
Main activity elec. generation	-	29305	-	-	-	-	-	-	-
Industry	-	29000	-	-	-	-	-	-	28076
Other uses	30500	29000	-	29411	-	-	-	30984	28076
Other bituminous coal									
Production	26000	20640	-	-	-	-	-	26587	-
Imports	26000	26431	26583	23386	-	25324	25002	25331	25056
Exports	-	29803	26583	-	-	-	-	25331	25056
Coke ovens	-	-	-	-	-	-	-	-	25056
Main activity elec. generation	24500	25850	-	24534	-	24838	25002	25331	25316
Industry	26000	33287	26583	23026	-	27838	-	25331	25056
Other uses	26000	28574	27216	24141	-	27838	25002	25331	25056
Sub-bituminous coal									
Production	-	-	-	-	-	-	-	-	-
Imports	-	-	-	17352	-	-	-	18832	-
Exports	-	-	-	-	-	-	-	-	-
Main activity elec. generation	-	-	-	16100	-	-	-	18838	-
Industry	-	-	-	16995	-	-	-	-	-
Other uses	-	-	-	17940	-	-	-	18853	-
Lignite									
Production	-	9079	5257	6961	-	-	-	-	-
Imports	17000	17667	4041	-	-	-	-	10468	-
Exports	-	10675	-	8232	-	-	-	-	-
Main activity elec. generation	-	8944	5120	7087	-	-	-	-	-
Industry	17000	10514	8781	7000	-	-	-	10468	-
Other uses	17000	10193	5257	8708	-	-	-	10468	-
Patent fuel									
Coke oven coke	32000	31400	-	22000	-	-	-	-	-
Coal tar	28000	28650	-	29500	26670	-	-	29000	29400
BKB	38000	-	-	38000	-	-	-	-	35393
Peat	-	19619	-	19811	-	19816	-	-	-
Peat products	-	-	-	-	-	13105	-	-	-
Oil shale	-	-	-	-	-	-	18548	-	-
Charcoal	-	-	31000	-	-	-	-	2931	-
	-	-	-	-	-	-	-	30800	30800
	-	-	-	-	-	-	-	-	29300

Country specific net calorific values (kilojoule per kilogramme), 2014

	Korea	Luxembourg	Mexico	Netherlands	New Zealand	Norway	Poland	Portugal
Crude oil								
Production	42700	-	44859	42700	43496	42550	42688	-
Imports	42700	-	-	42700	42729	42550	42497	43040
Exports	-	-	44859	42700	43457	42550	42690	-
Average	42700	-	44859	42700	43037	42550	42501	43040
NGL								
Refinery feedstocks	44800	-	42350	44000	43886	42300	42500	43966
Additives	41868	-	35578	44000	-	36800	35077	37000
Other hydrocarbons	-	-	41868	-	-	-	42500	49440
Biogasoline	-	26803	-	27000	28865	26800	27000	27000
Biodiesels	42390	38133	-	37000	39860	36800	37000	37000
Other liquid biofuels	36800	-	-	-	-	36800	-	37000
Anthracite								
Production	18631	-	25500	-	-	-	-	-
Imports	20599	26700	27510	29300	-	-	-	25721
Exports	-	-	25500	29300	-	-	-	-
Main activity elec. generation	20358	-	-	-	-	-	-	-
Industry	20599	26700	26455	29300	-	-	-	27611
Other uses	18631	29300	26700	29300	-	-	-	30353
Coking coal								
Production	-	-	29013	-	30091	-	29580	-
Imports	28219	-	28181	28671	-	-	29610	-
Exports	-	-	-	-	30091	-	29580	-
Coke ovens	28219	-	28498	28671	-	-	29553	-
Main activity elec. generation	-	-	-	-	-	-	-	-
Industry	28219	-	28340	28671	30091	-	29193	-
Other uses	28219	-	29335	28671	30091	-	29624	-
Other bituminous coal								
Production	-	-	-	-	28380	28100	22600	-
Imports	24660	24400	25875	24676	28380	28100	23616	24765
Exports	-	-	-	24676	-	28100	26290	-
Coke ovens	-	-	-	-	-	-	24139	-
Main activity elec. generation	24660	-	24739	25026	-	28100	21607	24765
Industry	24660	24400	-	-	28380	28100	22628	-
Other uses	24660	24400	23483	24676	28380	28100	26002	24765
Sub-bituminous coal								
Production	-	-	20374	-	20511	-	-	-
Imports	21353	-	-	-	20511	-	-	-
Exports	-	-	-	-	20511	-	-	-
Main activity elec. generation	21353	-	20374	-	20598	-	-	-
Industry	-	-	19920	-	20511	-	-	-
Other uses	21353	-	19405	-	20511	-	-	-
Lignite								
Production	-	-	11146	-	14531	-	8150	-
Imports	-	-	13860	20000	-	-	8150	-
Exports	-	-	-	-	-	-	8150	-
Main activity elec. generation	-	-	-	-	-	-	8123	-
Industry	-	-	11261	20000	14531	-	11323	-
Other uses	-	-	11261	20000	14531	-	8035	-
Patent fuel								
Patent fuel	18631	-	-	-	-	-	23200	-
Coke oven coke	28889	28500	26521	28500	29500	28500	28150	-
Coal tar	37000	-	37970	41900	-	-	37667	-
BKB	-	22200	18000	20000	-	-	17577	-
Peat	-	-	-	-	-	-	-	-
Peat products	-	-	-	-	-	-	-	-
Oil shale	-	-	-	-	-	-	-	-
Charcoal	-	-	-	30000	-	-	-	29500

Country specific net calorific values (kilojoule per kilogramme), 2014

	Slovak Republic	Slovenia	Spain	Sweden	Switzerland	Turkey	United Kingdom	United States
Crude oil								
Production	41200	-	42665	-	-	44325	43371	43261
Imports	42000	-	42665	42161	43225	44390	43371	43474
Exports	41200	-	-	-	-	-	43371	43261
Average	41997	-	42665	42161	43225	44258	43371	43209
NGL								
Refinery feedstocks	37000	-	-	-	-	-	45304	46616
Additives	42000	-	42500	44244	43700	42500	42000	40930
Other hydrocarbons	42122	-	-	25121	41325	25120	32711	25121
Biogasoline	41500	-	-	-	-	41868	28215	51004
Biodiesels	21440	35305	26995	26886	26524	26800	26826	32030
Other liquid biofuels	38450	36900	36990	37512	32040	39600	37191	45006
Anthracite								
Production	-	-	19384	-	-	-	-	28733
Imports	28316	-	25860	-	25500	-	-	28993
Exports	-	-	25300	-	-	-	-	28733
Main activity elec. generation	25391	-	20140	-	-	-	-	25408
Industry	28316	-	24720	-	25500	-	-	26198
Other uses	28316	-	26400	-	25500	-	-	19109
Coking coal								
Production	-	-	-	-	-	27680	30740	28204
Imports	29670	-	29300	30000	-	31375	30240	28224
Exports	-	-	29300	-	-	-	30740	27589
Coke ovens	29670	-	29300	30000	-	31317	30240	29911
Main activity elec. generation	-	-	-	-	-	24832	-	-
Industry	29670	-	-	-	-	27915	30400	-
Other uses	29670	-	29300	30000	-	28030	30740	28532
Other bituminous coal								
Production	-	-	18993	-	-	23640	24364	25898
Imports	25874	25218	23210	27400	25500	25900	25210	25786
Exports	-	25218	24011	27400	-	25975	29623	27279
Coke ovens	-	-	-	-	-	-	-	-
Main activity elec. generation	23189	25141	22221	27900	-	23970	23877	25408
Industry	25874	25206	24010	26860	25500	27050	25404	27072
Other uses	25874	25206	27100	27400	25500	27215	24709	26893
Sub-bituminous coal								
Production	-	-	13784	-	-	20410	-	18908
Imports	-	19370	-	-	-	-	-	19959
Exports	-	-	-	-	-	-	-	18089
Main activity elec. generation	-	18677	13370	-	-	20225	-	19248
Industry	-	19316	-	-	-	20410	-	19159
Other uses	-	19070	8621	-	-	20410	-	18684
Lignite								
Production	11086	11020	-	-	-	9818	-	13828
Imports	15018	11170	-	-	23600	-	-	13845
Exports	-	-	-	-	-	-	-	13868
Main activity elec. generation	11265	11051	-	-	-	6992	-	14569
Industry	11609	9387	-	-	23600	17100	-	14536
Other uses	11609	11299	-	-	23600	17100	-	15018
Patent fuel								
Coke oven coke	28000	-	-	-	-	-	31065	-
Coal tar	27867	30129	26795	28080	25500	27611	29800	28865
BKB	33490	-	38519	-	-	37429	35035	-
Peat	17714	-	-	-	-	-	-	-
Peat products	-	-	-	12500	-	-	-	-
Oil shale	-	-	-	-	-	-	-	-
Charcoal	-	-	30800	-	-	-	-	-

COUNTRY NOTES

Australia

Source

Department of Industry, Innovation and Science, Canberra.

General notes

- All data refer to the fiscal year (e.g. July 2013 to June 2014 for 2014).
- Starting with the 2013 edition and following, data for Australia were revised back to 2003 due to the adoption of the National Greenhouse and Energy Reporting (NGER) as the main energy consumption data source for the Australian Energy Statistics. As a result, there are breaks in the time series for many data between 2002 and 2003. The revisions have also introduced some methodological issues. The national statistics appear to have problems identifying inputs and outputs to certain transformation processes such as gas works plants, electricity plants and CHP plants. Energy industry own use and inputs to the transformation processes are sometimes not reported separately in the correct categories. More detail is given in the notes below.
- 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.
- In the 2016 edition, several **combustible fuel** electricity production series as well as some electricity consumption series were revised by the Australian administration back to 2010 in order to limit the use of estimated data and are causing some breaks.
- From 1992 onwards, **heat** data are not available.

Supply

- The production of electricity from **wind** is available from 1994.
- Electricity production from **solar photovoltaic** starts in 1992 and from **solar thermal** in 2003.

Transformation

- Fuels used for generation by autoproducers represent single fuel-fired units only. The use of fuel in multi-fired units operated by autoproducers is included in industry consumption.
- 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 1986, inputs and outputs from autoproducer CHP plants are not available.
- Prior to 1995, electricity production from **biogases** is included in natural gas.

Consumption

- Prior to 2006, **electricity** consumption in mining and quarrying includes consumption in liquefaction/regasification plants.
- From 1990 to 2008, **electricity** consumption in wood and wood products is included together with paper, pulp and printing.
- The direct use of **solar heat** (mostly domestic solar panels) is available from 1974.
- **Electricity** consumption in coke ovens has been estimated by the Australian administration from 1974 to 1999.
- Prior to 1974, the breakdown of **electricity** consumption in industry and energy sub-sectors is not available and energy industry consumption is included in industry.

- Prior to 1971 **electricity** consumption in the commercial and public services sector is included in industry.

Capacity

- Capacity refers to net maximum capacity on 30 June.

Austria

Source

Bundesanstalt Statistik Österreich, Vienna.

General note

In the 2016 edition, widespread data revisions were received due to enhanced reporting for 2005 onwards as a consequence of the Austrian Energy Efficiency Act (Bundes-Energieeffizienzgesetz). For some time series, these revisions were extrapolated back to 1990. As a consequence, there may be breaks between 2004 and 2005, and 1989 and 1990.

Transformation

- Electricity plants data may include some CHP plants operating in **electricity** only mode.
- A large autoproducer electricity plant was reclassified as an autoproducer CHP plant and therefore creates a break in series for **municipal waste** in 2011.
- In 2009, inputs of **other oil products** to autoproducer CHP plants were reclassified as **refinery gas** and **natural gas**.
- 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.
- Heat from chemical processes** used for **electricity** production is available from 2004.
- Prior to 1981, inputs to main activity producer electricity plants include inputs to CHP plants. All electricity production by CHP plants is included in electricity plants, and only production from combustible fuel sources is taken into account. Auto-producer CHP heat production is included in main activity producer CHP plants. For heat, own use is included in distribution losses.

Consumption

- Electricity** consumption in oil refineries includes consumption in gas works plants prior to 1991.
- Also prior to 1991, electricity consumption in the iron and steel industry includes consumption in coke ovens and blast furnaces.
- From 1990 to 2009, small amounts of electricity used in heat pumps have been included in the residential sector.
- Starting in 1990, consumption of electricity in the field of electricity supply, district heating and water supply are included in other energy industry own use, prior to that it was included in commercial/public services.

Trades

- Exports of electricity to non-specified/others are to Liechtenstein.

Capacity

- Only gross maximum electrical capacity is available.
- The breakdown of capacity by type of generation and fuel for autoproducer plants is not available from 1988 to 1992.

Belgium

Source

Observatoire de l'Energie, Brussels.

Supply

- The electricity production under **other sources** represents mainly production at a gas expansion station with heat recovery and at a hydraulic turbine in a waste water treatment plant.
- In 2014, reported **heat** distribution losses decreased due to a more precise estimation method.
- The production of electricity from **wind** is available from 1987.

Transformation

- In 2012, heat production from chemical sources has been estimated by the IEA Secretariat.
- Prior to 2009 some unsold heat was reported in natural gas autoproducer CHP plants, together with the associated natural gas input. This causes the drop in efficiency in 2009.

- In 2007 data, no information was available on heat production in main activity CHP plants for **industrial waste**.
- Heat from chemical processes used for electricity production is available from 2005.
- 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.
- 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.
- For 1998 and 1999, **electricity** production at main activity producer CHP plants with annual heat output below 0.5 TJ is reported with main activity producer electricity only plants.
- Prior to 1982, **electricity** production in main activity producer CHP plants is included in production from electricity plants. Also, inputs of fuels for electricity generation in main activity producer electricity plants include inputs for heat production in CHP plants.

Consumption

- For 2012, **electricity** consumption in the mining and quarrying sector has been estimated by the IEA Secretariat.
- For 2012, oil refineries **electricity** consumption has been estimated by the IEA Secretariat based on refinery activity data. Part of the estimated amount has been removed from consumption in the chemical and petrochemical sector.
- 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.
- Breaks in series exist between 1991 and 1992 for **heat** consumption in chemical and non-specified industry.

Capacity

- Combustible fuels electricity capacity by type of generation has been revised, accordingly to a new methodology adopted by the Belgian authorities, back to 2008 leading to breaks in the time series between 2007 and 2008.

- After 2006, data on electrical capacity by source are not available.
- Prior to 1982, data on electrical capacity by type of generation are not available.

Canada

Source

Natural Resources Canada, Ottawa.

General note

From the 2014 edition of this publication, the Canadian administration revised time series back to 2005, using additional data from the Annual Industrial Consumption of Energy, the Annual Survey of Secondary Distributors, the Report on Energy Supply and Demand and the Natural Resources Canada Office of Energy Efficiency. Breaks in time series also between appear 1989 and 1990, due to changes in methodology, incorporated in 2002.

Supply

- Starting in 2009, a new source has been used for electricity production from **solar, wind, and tide**. This new source covers production from **solar** and **wind** only from plants with capacity higher than 500 kW.
- Heat production includes **heat** produced by **nuclear** power stations for distribution to other consumers up to 1997.

Transformation

- In the 2016 edition of this publication, there was a reclassification from autoproducer to main activity producer for plants fueled by **biogases** and **municipal waste**.
- For autoproducers generating **electricity** with process steam produced from **biofuels** and waste, the energy required to produce the initial steam is not taken into account by the Canadian Administration and as a result the efficiencies are overstated.
- Secretariat estimates have been made for certain inputs to CHP production based on output. However, incompatibility of data for inputs to and output from thermal production of autoproducers may result in variable efficiency rates.
- The breakdown of electricity and heat generation from combustible fuel for 2015p was estimated by the IEA Secretariat.

- 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.
- Net electricity production by autoproducers prior to 1990 includes production from **combustible fuel** sources only.
- Inputs of fuels to heat plants are not available for 1979 to 1987.

Consumption

- Electricity** transmission and distribution losses could include statistical difference for some years.
- Starting from 2012, **heat** consumption in the chemical and petrochemical sector became confidential and is included under the “not elsewhere specified industry” sector.
- The Canadian Administration revised the **electricity** consumption for the commercial and public services sector from 2012 according to a new methodology. This causes a break in the time series between 2011 and 2012.
- Consumption of **electricity** in coal mines is not available between 1982 and 1986.
- Consumption of **electricity** in oil and gas extraction is not available prior to 1987.
- Breaks in the series occur between 1973 and 1974 in agriculture, and between 1987 and 1988 in the industry sector.

Capacity

- Only gross maximum electrical capacity is available.
- From 2000 to 2002, data on capacity were estimated by the Secretariat based on Statistics Canada’s “Electric Power Generating Stations” publication.
- Prior to 1981, data on electrical capacity by type of generation are not available.

Chile

General notes

- Data for 2015p have been estimated by the IEA Secretariat based on the published Energy balance.
- 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.

- Data are available starting in 1971.

Supply

- The majority of electricity generation from **other sources** is from a conveyor belt transporting crushed rock from high altitude to lower altitude in a mine. A small amount from waste heat is also included.

Transformation

- In 2014 data, input to transformation was taken from the published energy balance, and the output was estimated based on the efficiency reported in previous years.
- Electricity production from **other bituminous coal** includes sub-bituminous coal.
- Production of **chemical heat** used for electricity generation started in 2013. Besides chemical heat data for heat production in CHP and heat plants are not available.
- Increases in electricity from **natural gas** in 2010 are due to the openings of new LNG terminals.
- The split of **electricity** generation by main activity and autoproducer by fuel was estimated by the Chilean Administration for the period 1990 to 2003.

Consumption

- Solar thermal heat** production for 2012 was estimated by the Chilean administration.
- Prior to 2009, statistical differences are included in distribution losses.

Autoproducers

- Detailed data on autoproducer electricity production by sector is available from 2009.

Trades

- Imports of electricity from non-specified/others are from Argentina.

Capacity

- Installed capacity by type of technology is not available prior to 2011.
- Data for peak load is available from 1998.

Czech Republic

Source

Czech Statistical Office, Prague.

General notes

- Due to ongoing review of energy data for 2010–2014, revisions are expected in the 2017 edition.
- 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 from 1990 onwards have been officially submitted by the Czech administration. This may lead to breaks in series between 1989 and 1990.
- Data are available starting in 1971.

Supply

- The amount of heat reported under **other sources** is waste heat from the glass industry.
- From 1999 onwards, small amounts of **heat** have been exported to Slovak Republic.

Transformation

- Electricity generated from waste heat in CHP plants is included with the total production from combustible fuels.
- In the 2016 edition, a revision of the methodology for reporting the production of autoproducer plant running on combustible fuels causes multiple breaks in series between 2013 and 2014 for CHP and electricity only plant.
- From 2014, some autoproducer heat plants production figures became too small to appear in data collected.
- From 2012 data, new autoproducer heat plants were added to the data collection, causing a break in series.
- In 2012, a main activity producer electricity plant using solid biofuels started to produce also heat and was reclassified as main activity CHP plant.
- Due to a reclassification of plant types, there is a break in series in 2011 for municipal waste used for electricity and heat generation.
- A different reporting methodology used by the Czech Administration for biofuels and wastes causes some breaks in time series between 2002 and 2003.

- 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.
- Industrial waste use in main activity producer electricity plants is included with solid biofuels from 1996.
- Data on biogases and waste used in main activity producer CHP and autoproducer heat plants start in 1993.
- Prior to 1990, electricity production in main activity producer CHP and autoproducer CHP plants is included in main activity producer electricity plants.
- Prior to 1990, heat production 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 breakdown of net electricity production by source is not available prior to 1990.
- 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.

Consumption

- The direct use of **solar energy** is available from 2003.
- Prior to 2000, the split of *rail transport* and *non-specified transport* is not available.

Trade

- From 1999 onwards, small amounts of heat have been exported to Slovak Republic.

Capacity

- Starting in 2000, the peak load data reported in main activity producers include the autoproducers value.
- The breakdown of generating capacity is not available prior to 1990.

Denmark

Source

Danish Energy Agency, Copenhagen.

General notes

- 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.
- Heat data are not available prior to 1976.

Supply

- The amount of heat reported under *other sources* is heat recovered from industrial processes and sold for district heating.
- Heat produced for sale by heat pumps starts in 1994.
- Geothermal and solar heat production for sale is available from 1989.
- From 1984 onwards, small amounts of heat have been imported from Germany.
- The production of electricity from wind is available from 1978.

Transformation

- Fish oil used in main activity producer heat plants is included with solid biofuels.
- Due to the high number of heating companies burning wood chips that are equipped with boilers with flue-gas condensation, the solid biofuels heat plants show a high efficiency.
- For some years heat plants for natural gas and biogases show efficiencies larger than 100%, on a net calorific value basis, due to the use of condensing boilers that recover the latent heat of vaporisation.
- Biodiesels and biogasoline consumption for electricity and heat production are reported under other liquid biofuels, for confidentiality reasons.
- Data for other liquid biofuels main activity heat plants are available back to 1994.

Consumption

- In the 2016 edition, the Danish administration has revised electricity and heat consumption in the industry sector from 1990.
- Electricity consumption in non-specified industry includes consumption in district heating plants and use for the distribution of electricity.
- From 2012, the breakdown of heat consumption for industry, the energy sector, agriculture and forestry is estimated by the Danish administration.

- The direct use of solar thermal energy is available from 1978.

Trade

- From 1984 onwards, small amounts of heat have been imported from Germany.

Capacity

- Prior to 1981 for main activity producers and to 1994 for autoproducers, data on electrical capacity by type of generation are not available.

Estonia

Source

Statistics Estonia, Tallinn.

General note

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

Transformation

- Inputs of fuel oil and gas works gas to transformation processes include shale oil.
- From 1990 to 1999, some of the electricity and heat production are reported under other oil products while the inputs are reported under the individual fuels.

Finland

Source

Statistics Finland, Helsinki.

General notes

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.

Supply

- Electricity production in Finland is affected by the connection to the Nord Pool. In period of high waterfalls, importing electricity from other Nordic

countries is more economic than producing it. This can cause breaks in the time series.

- **Other sources** includes hydrogen and purchased steam.
- The increasing heat production from **heat pumps** in 2007 and 2008 is from the new Katri Vala district heating and cooling plant.
- **Heat from chemical processes** and associated electricity generation are available from 2000.

Transformation

- In the 2016 edition, the allocation of **solar photovoltaic** between main activity and autoproducer plants has been revised.
- From 2014 data, an autoproducer in the field of iron and steel industry running on **coke oven gases** and **blast furnace gases** was sold and is now reported as main-activity producer.
- The increase in heat production from **municipal waste** in 2014 is due to the opening of a new plant.
- In 2014, the new consumption of **liquid biofuels** in main activity electricity plant corresponds to biopyrolysis oil made from wood chips.
- Data on **peat products** electricity and heat generation are available since 2008. Prior to that, they are included in **peat**.
- **Heat** output from autoproducer CHP plants is available starting in 1996 and from autoproducer heat plants starting in 2000; corresponding inputs may be under-reported.
- Before 1999, all electricity production from autoproducers running on **fuelwood** is allocated to CHP plants.
- Electricity and heat production from **biogases** are available from 1996.
- Prior to 1992, outputs from the use of **combustible renewables and waste** to generate electricity and/or heat were included in peat. Therefore, the IEA Secretariat estimated the breakdown of outputs from municipal waste and solid biofuels based on reported inputs.
- Inputs of **liquid fuels** and **natural gas** to CHP plants are included with the inputs of these fuels to main activity producer electricity only and heat only plants prior to 1978.
- Electricity production from **biofuels and waste** is not available between 1974 and 1976.

Consumption

- A new survey of the *agriculture and forestry* sector leads to breaks in the **electricity** consumption between 2007 and 2008.
- The split of **heat** consumption in the different industry sectors is available starting from 2007. Prior to that, it is aggregated in *non-specified industry*.
- Prior to 2000, consumption of **heat** in *residential* includes consumption in *agriculture/forestry* and *commercial/public services*.
- Consumption of **electricity** in the industry sub-sector *machinery* includes consumption in transport equipment prior to 1995.

Autoproducers

The breakdown of net electricity production by autoproducers is not available before 2000.

Capacity

- Prior to 2000, capacity reported in autoproducers steam generation includes all types of generation.
- Net maximum electrical capacity data are not available prior to 1974.

France

Source

Ministère de l'Environnement, de l'Energie et de la Mer, Paris.

General note

From 2012, the energy consumption is more detailed due to a more precise national survey.

Supply

- All **photovoltaic** plants with capacity above 100kWp are considered as main activity producers, while all plants with capacity below that value are considered autoproducers.
- Heat production from **heat pumps** is available starting from 2013.
- Electricity production from **other sources** is available starting in 2012, representing production of electricity from purchased steam. The input is shown under non-specified transformation.
- Electricity production from **wind** is available from 1990.

Transformation

- Data for heat produced from **combustible fuels** in heat only plants are available starting from 2012.
- In 2012, several plants have been reclassified from electricity only to CHP plants. This causes breaks in the time series for **Municipal wastes and Solid biofuels**.
- Electricity production from **geothermal** started in 2011 and stopped in 2012 due to the maintenance of the only plant.
- The amount of heat not sold in autoproducer plants is included in total heat production up to 2010.
- In 2005, autoproducer CHP efficiencies for **bio-gases** drop due to the opening of a larger, less efficient plant.
- From 2000 several plants have been reclassified from electricity only to CHP plants. This causes breaks in the time series between 1999 and 2000.
- Prior to 2000, inputs and outputs of **oil products** are not available separately and are reported together under **other oil products**. From 2000 to 2008, there are further classification problems for inputs and outputs of electricity and heat from oil products. The French administration is working to reconcile their data collection methods for the inputs and the outputs for electricity generation.
- 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.
- There was re-classification on auto producer plants using **municipal waste** in 1995, which leads to a break in the time series.
- Net electricity production by autoproducer CHP plants is available from 1989.
- Net **electricity** production by autoproducers prior to 1983 includes production from combustible fuel sources only.

Consumption

- Data on **heat** distribution losses are available only starting from 2012. Prior to that, they were included in final consumption.
- Prior to 2005 data, all the **geothermal** heat consumption was reported as direct use. From 2005 data, some quantities are reported as output of heat plants, resulting in breaks in series for production, transformation and consumption.

- For the 2014 edition of this publication, the French administration revised **electricity** consumption data in the agriculture sector back to 2004, resulting in breaks in time series.
- 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.
- The industry classifications used by the French administration were changed in 1986.
- A large part of energy industry **electricity** consumption in not elsewhere specified is consumption in uranium treatment plants; this electricity consumption is not available prior to 1980.
- There are major breaks in the time series in 1965 when more detailed breakdown of data on **electricity** consumption became available.

Capacity

- The main activity plants peak load includes also the peak load of autoproducer plants.
- Single fuel fired coal and coal products autoproducer net electricity capacity includes the total combustible fuels capacities from 2011.
- Prior to 1981 and between 1999 and 2010, data on electrical capacity by type of generation and fuel are not available.

Germany

Source

Federal Ministry for Economic Affairs and Energy, Berlin.

General notes

- In the 2014 edition, the German Administration performed some major revisions back to 2003. This can lead to breaks in the time series between 2002 and 2003.
- The German administration has changed the methodology for reporting heat over time: Starting in 2007, more information is available on main activity heat plants and additional inputs started to be reported for this category. This causes breaks in series between 2006 and 2007. Between 2003 and 2006, autoproducer heat output was provided, but no inputs. Between 2002 and 2003 and between 2003 and 2004, breaks in series occur, 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.

- Prior to 1970, **Heat** production and consumption, have been estimated by the Secretariat based on Energie-bilanz der Bundesrepublik für das Jahr 1990 provided by the German Institute for Economic Research.
- German data include the new federal states of Germany from 1970 onwards.
- Data starts in 1960.

Supply

- In some instances, electricity generation from **nuclear, hydro, solar, wind and biogases** in auto-producer electricity plants is confidential or not available and therefore is included in main activity producer electricity plants.
- Since 2011, due to a reclassification of **wind** energy and **solar photovoltaic** in the official legal data of the German Federal Statistical Office, the production is now only reported under main activity producer plants.
- Electricity production **from other sources** is available starting in 2003. This refers to the production of electricity from turbines which are located at pressure drops in fluid transport and from purchased waste heat.
- Prior to 1991, **electricity** trade data includes only trade of the Former Federal Republic of Germany.
- Data on electricity production from **wind** and **solar** are available from 1986 and 1990, respectively.
- Starting in 1984, small amounts of **heat** have been exported to Denmark.

Transformation

- 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**.
- From 2003 onwards all **heat** production in auto-producers is considered as non-sold (i.e. for self-use) and, therefore, not reported. Inputs for this heat production are no longer reported in the transformation sector.
- 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.

- Prior to 2003, **electricity** production in electricity plants includes production from CHP plants and heat production in CHP plants includes production from heat plants.
- 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.
- A new survey for the renewable products can cause breaks in the time series between 1998 and 1999.
- Prior to 1993, all heat production from **BKB/peat briquettes** is included in main activity producer CHP plants.

Consumption

- More information on district heat became available, causing breaks in the time series between 2006 and 2007.
- Data on **geothermal heat** production and direct consumption are only available starting in 2003.
- From 2002, **electricity** consumption in the commercial and public sector includes the construction sector, and the fishing, agriculture and forestry sectors for the whole time series.
- In 2000, revisions from the German administration to the **electricity** consumption data may cause breaks in the time series.
- In 1995, the German Federal Statistics Office reclassified some industrial branches which may cause a break in series in industry sub-sectors.
- Between 1971 and 1980 **electricity** consumption in coal mines includes consumption in coke ovens and BKB plants.

Trade

- Prior to 1991, electricity trade data includes only trade of the Former Federal Republic of Germany.
- Starting in 1984, small amounts of heat have been exported to Denmark.

Capacity

- Electricity generating capacity before 1991 is for the Former Federal Republic.
- Prior to 1974 and after 2001, data on electrical capacity by type of generation are not available.

Greece

Source

Ministry for Environment and Energy, Athens.

Supply

- No production of **solar heat** is reported.

Transformation

- In 2008 a new plant using refinery gas started operating in an experimental phase, causing a low efficiency.
- Production and consumption of distributed heat (heat sold) that is produced from lignite is available from 1997.
- Data for biofuels and waste input and output to transformation are available from 1992.

Consumption

- In the 2016 edition of this publication, there were revisions on direct use of **geothermal** heat, mainly in the commercial and public services and residential sectors.
- Electricity consumption in road is available from 2013.
- A break in series exists between 1991 and 1992 for electricity consumption in transport.
- Direct use of **geothermal** heat in residential is available starting in 2004.
- Electricity consumption in iron and steel and in the non-ferrous metals industry prior to 1971 has been estimated by the Secretariat.

Capacity

- Prior to 1981, data on electrical capacity by type of generation are not available.

Hungary

Source

Hungarian Energy and Public Utility Regulatory Authority, Budapest.

General note

Data are available starting in 1965.

- The Hungarian administration submitted questionnaires to the IEA Secretariat for the first time with 1993 data.

Supply

- *Other sources* electricity production is available from 2013 and represents generation from residual tail gases from the manufacturing of soot.
- **Geothermal** heat production from main activity producer heat plants is available from 1995.
- **Nuclear** electricity production in main activity producer electricity plants is available from 1983.

Transformation

- From 2014 data, more data suppliers were involved in the process, causing new autoproducer series to appear for **geothermal** and **industrial waste** plants.
- In 2014 data, some CHP plants running on **Industrial waste** and **solid biofuels** produced only heat and were reclassified to heat plants.
- The Hungarian administration reclassified some of their plants between 1996 and 2000, which may lead to breaks in the time series.
- Prior to 2000, electricity output from sub-bituminous coal is included with lignite.
- Electricity and heat production from **solid biofuels** in autoproducer CHP plants is available from 1995.
- Autoproducer electricity, CHP, and heat plants using coke oven gas and blast furnace gas were reclassified as main activity power plants in 1998.

Consumption

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

Iceland

Source

National Energy Authority, Reykjavik

General notes

- The industrial classifications used by the Icelandic administration were changed in 1987.
- Prior to 1970, final consumption includes inputs and outputs to heat production.

Supply

The increase in **hydro** and **geothermal** electricity production from 2007 is due to the expansion of the aluminium industry.

Transformation

- Input of electricity to electric boilers for 2015p were estimated by the IEA Secretariat.
- The **heat** output from electric boiler was estimated for the years 2012 to 2014.
- From 2013 data, the Hellisheiði **geothermal** power plant, previously reported under main activity electricity plant, was categorised as main activity CHP plant.
- Heat production from **municipal waste** is available from 1993 and stops in 2010.
- 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.
- Electricity production from **geothermal** sources in main activity producer CHP plants is available from 1992.

Consumption

- The **geothermal** consumption in the industrial sector is reported under non-specified industry, as the Icelandic Administration decided not to estimate the allocation amongst the sub-sectors of industry.
- There were reclassifications in the direct use of **geothermal** heat in 2014 which create breaks in series between 2013 and 2014.
- **Electricity** consumption in non-specified transport includes consumption for ferries and cruise lines.
- Energy industry consumption of **electricity** refers mainly to the use of electricity by the geothermal industry to pump hot water from underground sources.
- The **heat** consumption breakdown by sector for the years 1990 to 2013 was estimated based on the 2014 breakdown.
- The increase of **electricity** consumption in the construction sector from 2004 to 2007 is due to the drilling of tunnels for the Kárahnjúkar power plant.

- The consumption of **electricity** reported in other non-specified corresponds to a NATO base at Keflavik airport which closed in 2005.
- From 1991, energy industry consumption includes **electricity** used for the transport by pipeline of hot water from Nesjavellir to Reykjavik.
- Prior to 1990, all **heat** for space heating was reported in residential.
- The industrial classifications used by the Icelandic Administration changed in 1987.
- Residential sector includes agriculture prior to 1983.
- Prior to 1970, total final consumption includes inputs to and outputs from **heat** production and non-energy use. After 1970, data on inputs and outputs in CHP plants and in main activity producer heat plants (district heat plants) and for non-energy use are separately specified.

Ireland

Source

- Department of Communications, Energy and Natural Resources, Dublin.
- Sustainable Energy Authority of Ireland, Cork.

Supply

Electricity production from **wind** begins in 1992 and from **biogases** in 1996.

Transformation

- In the 2016 edition, revisions were introduced in the **electricity** generation by fuel from 2010 due to improved data available from the transmission system operator.
- In 2012 a new main activity electricity plant burning **municipal waste** (the Meath plant) started operation.
- From 1984 to 1989, inputs of **hard coal** in auto-producer CHP plants have been estimated by the Secretariat.

Consumption

- In 2004, the increase of **electricity** consumption is due to the new light rail transit system in Dublin.
- 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.

- Prior to 1990, **electricity** consumption in agriculture is included with residential.
- Electricity** consumption in the iron and steel industry includes consumption in the non-ferrous metals industry prior to 1990.
- Direct use of **solar thermal heat** is available from 1990.

Capacity

- Capacity reported under other sources corresponds to cross-border transmission capacity with Northern Ireland.
- Prior to 1981, data on electrical capacity by type of generation are not available for main activity producers.

Israel

Source

Israel Central Bureau of Statistics, Jerusalem

General notes

- 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 and/or the IEA 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.
- All figures for 2015p were estimated.
- Data are available starting in 1971.

Supply

- Electricity production from **wind** begins in 2001.

Transformation

- For 2013 and 2014, **other oil products** inputs to autoproducers electricity plants were estimated by the IEA Secretariat.
- Input to transformation for **biogases** for 2013 and 2014 was estimated by the IEA Secretariat.

Consumption

- For 2013, the split of **electricity** consumption in industry is estimated by the IEA Secretariat.

- Solar thermal** production and direct consumption are estimated since 2012 based on 2011.
- Electricity** own use, as well as transmission and distribution losses were estimated by the IEA Secretariat from 2010 to 2012.

Autoproducer

From 2013 data, the autoproducer production breakdown by sub sector in Industry is confidential.

Capacity

- From 2013 data, the split of combustible fuels electrical capacity is unavailable.
- In the 2014 edition, main activity plants net electricity capacities by type of generation have been revised back to 2008 by the Israeli administration and capacities by fuel have been estimated by the IEA Secretariat for the same period. This leads to breaks between 2007 and 2008.

Italy

Source

- Ministry of Economic Development, Rome.
- Terna, Rome.

General notes

A change in methodology leads to breaks in series for industry and transformation between 2003 and 2004.

Supply

- 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.
- The methodology of data collection for **photovoltaic** electricity production changed in 2009 and the distinction between main activity and auto-producer plants could not be determined, causing a break in the time series.

Transformation

- The methodology of data collection for the **geothermal** sector changed in 2010, causing a break in time series between 2009 and 2010.
- Prior to 2009, sub-bituminous coal used in main activity electricity plants was included under other bituminous coal.

- With the introduction of a new survey in 2008, amounts of naphtha and other kerosene that were previously included in *other oil products* have been reported separately in autoproducer CHP plants.
- Prior to 2004, electricity production from orimulsion is confidential and is included with fuel oil.
- Heat production is reported starting in 2004 and includes self-generation in industry.
- 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 breakdown of renewables and waste inputs into electricity, heat and CHP plants is available from 1989 only. Prior to that year, the total of the different fuels involved is reported as non-specified renewables.
- Prior to 1984, net electricity production by autoproducers includes production from combustible fuel sources only.

Consumption

- Non specified energy industry own use* includes electricity consumption for blast furnaces. From 2000, it also includes consumption for the distribution of gas and prior to 1989 consumption for uranium extraction.
- The breakdown of heat consumption by sector is estimated by the Italian administration.
- Revisions of the heat final consumption by the Italian administration could lead to breaks between 2010 and 2011.
- From 1981, consumption of electricity in transport includes electricity used for pumping in oil pipelines.

Capacity

Prior to 1981, data on electrical capacity by type of generation are not available.

Japan

Source

The Institute of Energy Economics Japan, Tokyo.

General notes

- Starting in 1990, data are reported on a fiscal year basis (e.g. April 2014 to March 2015 for 2014).
- Between 2004 and 2007, a series of revisions were received from the Japanese Administration. 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.
- Consumption data for commercial/public services may include consumption in small and medium-size industries. The Japanese administration expects that this shortcoming be corrected in the near future.

Supply

- Due to the events related to the March 2011 tsunami, the Japanese authorities decided to scale back the level of their **nuclear** program. As a consequence, there was no nuclear electricity generation in 2014.
- Other sources** electricity represents electricity generated with purchased steam.
- 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 Japanese administration estimate the electricity input of **electric boilers** based on 100% efficiency.
- The IEA Secretariat estimated the **photovoltaic** (PV) electricity generation from autoproducers from 1992 to 2015p 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 2015. The capacity factor was based on the report "National survey report of PV Power Applications in Japan", published by IEA-PVPS. The corresponding electricity consumption has been included with other non-specified consumption.

- Production of electricity from **wind** began in 1993.
- Heat produced for sale in main activity producer heat plants from **waste heat** and from **electric boilers** is available from 1977 and 1983, respectively.

Transformation

- Data on **heat** produced for sale by autoproducer heat plants are not available.
- Fuels used and corresponding electricity and heat produced in CHP plants are not included in the CHP data series, but instead are reported as separate **electricity** or **heat** components.
- Heat production from **geothermal** and **solar thermal** sources in Japan is not reported by the Japanese administration.
- The production of electricity from **solid biofuel** is reported from 2010.
- 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**.
- Inputs of **biofuels and waste** for electricity production and related outputs are available from 1982.
- Net electricity production by autoproducers prior to 1982 includes production from **combustible fuel** sources only.
- Between 1972 and 1976, the use of **combustible fuels** in main activity producer heat plants is included in non-specified.

Consumption

- The **electricity** consumption in the *non-specified industry* sector is estimated by the Japanese administration as residual item to include the non-assigned industry consumption. For this reason, the trend in this category could behave erratically.
- In the 2016 edition, the consumption of **electricity** in the *industry* and *other sectors* was entirely reviewed due to the revision of the METI-EBT, which replaced the previously used estimation method by statistical surveys covering data from 2005. The data prior to 2005 was estimated by the Japanese administration based on 2005.
- Consumption of **electricity** in *non-specified industry* includes wood and wood products and construction prior to 1982.

Autoproducer

- Net electricity production by autoproducers in the energy industry is not available prior to 1982. Net electricity production by autoproducers in the transport sector is included in non-specified prior to 1982.

Capacity

- Electricity generation capacity for nuclear power increased in 1997 due to the commissioning of two nuclear plants.
- Prior to 1981, data on electrical capacity by type of generation are not available for main activity producer plants.
- Prior to 1974, data on electrical capacity by type of fuel are not available for autoproducer plants.

Korea

Source

Korea Energy Economics Institute, Ulsan.

General notes

- 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.
- Data are available starting in 1971.

Supply

- The own use of **heat** in heat plants is very irregular due to a lack of data.
- Electricity generation reported under **other sources** is from fuel cells.
- **Heat from chemical processes** that is sold is available from 2008.
- Electricity production using **heat from chemical processes** in copper and zinc plants is available from 2005. The corresponding heat inputs were estimated until 2013 data. In 2014 the corresponding company switched to diesel oil for electricity generation.

Transformation

- From 2011 to 2013 data, the input of **industrial waste** to electricity and heat includes waste gas.
- Prior to 2009, autoproducer **heat** production includes amounts of unsold heat.
- Electricity and heat production by autoproducers using **natural gas** and **liquid fuels** are available from 2000.
- In 2000, the Korean administration started to report **heat** statistics for some heat plants which were not reported before.
- For 1993 to 1999, the breakdown of **heat** output by type of fuel has been estimated by the IEA Secretariat.
- Before 1994, **electricity** production from main activity producer CHP plants is included with main activity producer electricity only plants.

Consumption

- 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.
- Heat** consumption by subsector was reclassified in 2010 due to new information available on heat sales from autoproducers to end-users by sector.
- 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.
- Production and consumption of **electricity** and **heat** in *oil refineries* and *LNG liquefaction/regasification* plants are included in the *industry* sector. From 2007, oil refinery **electricity** and **heat** production and consumption started to be reported under the correct energy sector.
- Direct use of **geothermal heat** is available from 2002.
- Heat** consumption by sector is available from 2000.
- Data for **electricity** consumption in the transport equipment sector are included in machinery from 1994 to 1999.

Autoproducers

- The breakdown by sector of heat production in autoproducers is estimated by the Korean administration based on consumption data of purchasing companies.

Capacity

- The breakdown of generating capacity by fuel is not available prior to 1994 and after 2011.

Luxembourg

Source

STATEC, Institut national de la statistique et des études économiques du Grand-Duché du Luxembourg, Luxembourg.

General notes

- Data for **solar thermal** are available starting in 2001 and for **solar PV** starting in 2000.
- A revision in the classification of power plants by type and the production and consumption data for both **electricity** and **heat** back to 2000 causes breaks in the time series.

Supply

- Most of the **hydro** production shown for Luxembourg is from the Vianden pumped storage plant and is exported directly to Germany.
- Starting in 2005, data for **electricity** transmission and distribution losses were obtained from the network operator. Prior to that, they were estimated by the national administration.

Transformation

- The production of electricity from **solid biofuel** starting in 2013 corresponds to the opening of a new plant burning wood wastes.
- In 2011, the only main activity electricity plant consuming **natural gas** met the requirements to be reclassified as a CHP plant. The plant went offline for some months in 2013.
- Electricity production from **biogases** is available from 1998 and heat production from 2010.
- In 2002, the increase in electricity production is due to a new **natural gas** combined cycle power plant.
- At the end of 1997, the iron and steel industry stopped production of **electricity**.
- Electricity data for **natural gas** autoproducer CHP plants are available starting in 1995, and for main activity CHP plants starting in 1996.

- Prior to 1990, **net electricity** production by autoproducers includes production from combustible fuel sources only.

Consumption

- A change in the data source caused some breaks in the industry **electricity** consumption time series between 2010 and 2011.
- The breakdown of **electricity** consumption in industry is not available from 1990 to 1999.

Autoproducers

- The iron and steel industry stopped production of electricity at the end of 1997. Therefore, electrical capacity for combustible fuels declined.

Capacity

- Prior to 1995, data on electrical capacity by type of generation are not available for autoproducers.

Mexico

Source

Secretaría de Energía, Mexico City.

General notes

- In the 2016 edition, the Mexican administration completed a major work on revisions of the time series back to 1990. More revisions to historical data are pending.
- 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. For prior years, data are partly estimated based on the publication *Balance Nacional - Energía*.
- Data are available starting in 1971.

Supply

- Production of main activity producer electricity plants from **wind** is available from 1994.
- Electricity production from **wind** and **solar photovoltaic** is available from 1990.

Transformation

- New autoproducer electricity plants fuelled with **coke oven gases** were put on-line in 1999.

- Electricity production from **solid biofuels** and **biogases** are available respectively from 1991 and 1997.

Consumption

- 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).
- Direct use of solar thermal heat is available from 1990.

Autoproducers

- The breakdown of net electricity production by autoproducers is available from 1990.

Capacity

- In 2012, nuclear capacity increased due to the replacement in the only nuclear plant of the turbines.
- The capacity factor of wind plants looks high in 2011 because the capacity of plants on test was not reported.
- The breakdown of generating capacity for main activity producer electricity plants by combustible fuels is not available prior to 1982.
- Net maximum electrical capacity for autoproducers is not available prior to 1974.

Netherlands

Source

Statistics Netherlands, The Hague.

General notes

- The Netherlands Central Bureau of Statistics has conducted reviews and revisions of their energy balance three times; in 2005, 2011 and 2015. The 2005 revisions were to improve basic energy statistics, particularly with respect to carbon and CO₂ reporting, while the 2011 revisions were part of a harmonization program with international energy statistics. The 2015 revisions were the result of increased data collection, availability of new source information, and further alignment with international energy definitions. More details are available here: <http://www.cbs.nl>

- In the national statistical system of the Netherlands, use of fuel in manufacturing industries for CHP production is considered to be consumption in transfor-

mation. However, in IEA statistics, this own use for heat production (auto-produced heat) is reported under the relevant industry sub-sector, based on estimates provided by the Central Bureau of Statistics.

Supply

- The decrease of electricity produced from **nuclear** in 2013 data is due to a maintenance period of two and a half months of one nuclear power plant in this year.
- Heat used for electricity production represents waste heat bought from other industries that was generated from **combustible fuels**.
- Electricity **from other sources** represents generation from expansion gases and chemical waste gases (the latter up to 2007).
- The large increase in **electricity** trade in 1999 is due to the liberalisation of the Dutch electricity market. Until 2003, trade data are based on contracted quantities instead of physical flows.
- The decrease of electricity produced from **nuclear** in 1997 is due to the closure for five months of one nuclear power plant.
- Electricity production from **solar photovoltaic** is available from 1990.

Transformation

- Heat** in *non-specified transformation* represents waste heat bought from other industries that was generated from combustible fuels. The corresponding electricity output is included with that of natural gas.
- Autoproducers heat plants using **refinery gases** are included with autoproducers CHP plants because data are considered confidential.
- Heat** production in commercial and public services includes production in agriculture.
- All **municipal solid waste** autoproducer electricity and heat only plants have been reclassified by Statistics Netherlands as autoproducers CHP from 2012, causing breaks in the time series.
- Prior to 2008, a few small autoproducer electricity plants using **solid biofuels** were included with main activity plants for reasons of confidentiality.
- In 2006, some **municipal waste** plants changed ownership and were reclassified from electricity only to CHP plants as they started heat projects.
- A new main activity producer CHP plant fuelled by **refinery gas** started up in 1999 and there was a fuel reclassification in 2000.

- 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.
- Net **electricity** production by autoproducers in the energy industry is not available prior to 1993.
- Heat produced from **biofuels and waste** is available from 1990.
- Prior to 1990, all electricity and heat produced from **coal** is included in CHP plants.
- Inputs of **hard coal** for electricity production from 1981 to 1989 in terajoules (TJ) are estimated by the Secretariat based on data submitted in kilotonnes (kt) by the Dutch Administration.
- Net electricity production by autoproducers prior to 1988 includes production from **combustible fuel** sources only.
- Heat** production by fuel in heat plants prior to 1987 are estimated by the Secretariat based on fuel inputs submitted by the Dutch Administration.
- Heat** production from main activity producer CHP plants and heat plants is available from 1982.
- Prior to 1982, **electricity** production from and inputs to main activity producer CHP plants are included with main activity producer electricity plants.
- For 1970 to 1973, **electricity** output from autoproducer CHP plants has been included with main activity producer CHP plants.

Consumption

- Electricity** consumption in *commercial and public services* includes small users from other sectors.
- Increasing **electricity** consumption in *agriculture/forestry* is due to expansion of greenhouse farming.
- The absence of **heat** consumption in the *mining and quarrying* subsector starting in 2012 is due to the reclassification of a company done by Statistics Netherlands. The company has merged with a main activity electricity producer.
- Direct use of **geothermal heat** in agriculture/forestry starting in 2008 is due to a new project extracting deep geothermal heat.
- A new reporting methodology starting in 2005 causes breaks in the heat consumption series.
- Prior to 1979, **electricity** consumption in agriculture is included in commercial and public services.

Capacity

- Prior to 1981 for main activity producer plants and 1982 for autoproducers, data on electrical capacity by type of generation are not available.

New Zealand

Source

Ministry of Business, Innovation and Employment, Wellington.

General notes

- Prior to 1994, data refer to fiscal year (April 1993 to March 1994 for 1993). From 1994, data refer to calendar year.
- There are several breaks in the series between 1987 and 1988 due to a reorganisation of government departments during 1987.

Supply

- Heat** outputs from main activity and autoproducer CHP plants are not available.

Transformation

- Electricity** and **heat** production from **other sources** represents waste heat recovered and used for electricity production.
- For 2002 and 2003, **natural gas** autoproducer electricity includes generation of **electricity** from on-site heat/steam recovery during the combustion of carbon monoxide (CO) gas from the iron making reduction and melting process.
- In 1999, a reclassification of autoproducer plants causes some breaks in the time series.
- 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.
- Electricity** production by autoproducers from **natural gas** and from **oil** has been estimated by the Secretariat from 1970 to 1973.

Consumption

- A new survey starting from the 2013 data can cause breaks in the final consumption of **electricity**.
- Direct use of **geothermal heat** is available from 1990 and direct use of **solar thermal heat** from 2002.
- From 1974 to 1993 distribution losses include the statistical differences.
- The classifications used by the administration of New Zealand were changed in 1991.
- Electricity** consumption in paper, pulp and printing is included in wood and wood products prior to 1990.

Capacity

- Generating capacity for autoproducers is available from 1994.
- Prior to 1981, data on electrical capacity by type of generation are not available.

Norway

Source

Statistics Norway, Oslo.

Supply

- No data on electricity production from **solar energy** are submitted separately to the IEA by the Norwegian Administration. They were estimated until 2008 based on IEA PVPS implementing agreement.
- The electricity generated from **other sources** represents electricity from waste heat.
- Distribution losses* includes statistical differences.
- Heat** produced by autoproducer heat plants from chemical processes and from *other sources* and used for electricity production has been estimated by the IEA Secretariat for the period 1990 to 2006.
- Electricity production from **wind** is available from 1993.
- Heat production from **heat pumps** and **electric boilers** (including the electricity used for this production) is available from 1989.
- Heat** production is not available prior to 1983.

Transformation

- In the 2016 edition Norway corrected the **industrial waste** consumption in heat plants, and

reclassified some the corresponding heat output under **other sources**.

- Starting in 2007, data for **natural gas** electricity and CHP plants are aggregated in autoproducers electricity plants for confidentiality reasons.
- Breaks in the time series between 1996 and 1997 and between 2001 and 2002 are due to a reclassification of main activity producers and autoproducers.
- Heat production from **biogases** is available from 1995.
- Prior to 1991, net **electricity** production by autoproducers by industry sub-sector was estimated by the Secretariat based on data submitted by the Norwegian Administration.
- Data on inputs and outputs in **heat** plants are not available prior to 1983 for main activity heat plants and prior to 1988 for autoproducer heat plants.

Consumption

- Consumption of **electricity** for pipeline transport is included in oil and gas extraction.
- 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.

Trade

- Electricity trade with the Netherlands begins in 2008 with the operation of a cross-sea cable interconnection between the two countries.

Capacity

- The increase in gas-fired generating capacity and the associated production of electricity in 2007 is due to the opening of a new plant at Kårstø in late 2007.
- Net maximum electrical capacity of pumped storage plants is not available from 1970 to 1972.

Poland

Source

Central Statistical Office, Warsaw.

General note

Prior to 2010, **heat** supply and consumption can include autoproducers unsold heat. Previous attempts to address such issue may have caused breaks for heat

production and fuel in autoproducer heat plants (1993) and in autoproducer CHP plants, and for heat consumption in industry sub-sectors.

Supply

- Electricity and heat from **chemical heat** and other sources are available from 2011. Prior to that, these amounts could be included under different categories.
- Heat** distribution losses are available from 2010 and prior to that they are included in consumption.
- Heat production from **heat pumps** is available from 2009.

Transformation

- In 2008, a number of CHP plants were reclassified from autoproducer to main activity producer due to an industry re-organisation.
- Electricity production in autoproducer electricity plants is available from 1986.
- In the past two editions, the Central Statistical Office has revised their methodology which accounts for sold heat produced from autoproducer heat plants using **coking coal** and **other bituminous coal**, resulting in lower, but more accurate data for 2007 onwards.

Consumption

- Direct use of **geothermal heat** is available from 2000 and direct use of **solar thermal heat** in commercial/public services from 2002 and in residential from 2009.
- Heat** consumption in energy industry own use includes process heat not sold before 1995.

Portugal

Source

Direcção Geral de Energia e Geologia, Lisbon.

Supply

- Production of electricity from **solar photovoltaic** and **wind** are available from 1989.

Transformation

- Electricity production from **other oil products** refers to methanol.

- In 2007, some power plants that were previously reported as main activity CHP have been reclassified as autoproducer CHP.
- In 2007, the power station that burns **industrial waste** started to work as a CHP plant, whereas previously it was only producing electricity.
- New plants fuelled by **solid biofuels** and by **municipal waste** started in 1999.
- Prior to 1992, net electricity production by autoproducers includes production from combustible fuel sources only.
- Production of **electricity** in main activity producer CHP plants and the associated fuel inputs are not available prior to 1980.

Consumption

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

Capacity

- Peak load for main activity producer plants includes the autoproducers data and is not available prior to 1986.

Slovak Republic

Source

Statistical Office of the Slovak Republic, Bratislava.

General notes

- Data for solar photovoltaic are available from 2010.
- The Slovak Republic became a separate state in 1993 and harmonised its statistics to EU standards in 2000. These two facts lead to several breaks in time series between 1992 and 1993, and between 2000 and 2001.
- Data are available starting in 1971.

Transformation

- 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.

- Prior to 2001, electricity generation from primary **solid biofuels**, **municipal waste** and **biogases** are included with **industrial waste**.

Consumption

- 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.

Trade

- The breakdown of trade by origin and destination is available from 1993.

Capacity

- The breakdown of installed capacity by type of generation/fuel is available from 2001.
- Peak load data for main activity producer plants have been estimated by the IEA Secretariat based on the SEPS annual reports and include data for autoproducer plants. Data are available back to 2000.
- Data for generating capacity are not available prior to 1995.

Slovenia

Source

Statistical Office of the Republic of Slovenia, Ljubljana.

General notes

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

Consumption

- Direct use of **solar thermal** and **geothermal heat** is available from 2009.
- Surveys for data on **heat** consumption are available from 2003 onwards for the residential, industry and energy sectors. Prior to 2003, the data have been estimated by the Slovenian administration.

Spain

Source

Ministerio de Industria, Energía y Turismo, Madrid.

Supply

- Electricity reported under **other sources** is from waste heat.
- Transmission and distribution losses are estimated by the Spanish administration.
- Electricity from **solar thermal** plants is available from 2007.
- From 2005, residential rooftop **solar photovoltaic** electricity production data, previously reported under autoproducer, are included in main activity electricity plants according to the Spanish administration classification.
- 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.
- Electricity production from **wind** and **solar** are reported from 1989 when data became available.

Transformation

- In 2008, a reclassification of plants from main activity to autoproducer has led to breaks in electricity production between 2008 and 2009.
- The National Energy Commission reclassified plants that consume **biogases**, leading to breaks in series between 2007 and 2008.
- In 2000 and 2006, many plants were reclassified from main activity producer to autoproducer or vice versa.
- For 2004 and 2005, electricity production from gas/diesel oil is included with fuel oil.
- 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.
- Prior to 1989 inputs and outputs from the use of **biofuels and waste** to generate electricity and/or heat (i.e. comprising **solid and liquid biofuels, industrial waste, municipal waste and biogases**) are reported under non-specified **biofuels and waste**.
- Prior to 1987 **electricity** production in main activity producer CHP plants is included with production from main activity producer electricity plants.

- From 1983, net **electricity** production by autoproducers has been estimated by the Spanish Administration, and includes production from combustible fuel sources only and net electricity production by autoproducer CHP plants is included in electricity plants.

Consumption:

- For 2012, the **electricity** consumption data are estimated by the Spanish administration.
- Direct use of **solar thermal heat** is available from 1994.
- Direct use of **geothermal heat** is available from 1990.

Capacity

- From 2004, capacity of autoproducers is included with main activity producers.
- Prior to 1980, data on electrical capacity by type of generation are not available and from 2003 no breakdown of capacity by type of fuel and generation type is available.

Sweden

Sources

- Statistics Sweden, Örebro.
- Energimyndigheten, Eskilstuna.

Supply

- 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**.
- Information on heat for sale produced in **heat pumps** and **electric boilers** is available starting in 1992.

Transformation

- In Sweden, heat produced in **heat pumps** is sold to third parties (as district heat) and is therefore included in transformation.
- 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.

- Heat production from **solid biofuels** in autoproducer CHP includes waste heat and chemical heat.
- For 2012 and 2013, small quantities of biomethanol used to produce electricity are included in **other liquid biofuels**, under production, as well as input and output of autoproducer CHP.
- For 1997 and 1998, heat production from **liquid fuels** in main activity producer CHP plants includes heat recovered from flue-gas condensing.
- Prior to 1992, electricity production from **biogases** is included with **solid biofuels**.
- Heat produced for sale by autoproducer CHP plants is reported starting in 1992.
- From 1987, the breakdown of net **electricity** production by industry for autoproducer electricity plants is available.
- Prior to 1987 net **electricity** production by autoproducer plants includes data for CHP plants only.
- Prior to 1980, **heat** produced in main activity producer heat plants is not available.
- Prior to 1974, **heat** produced in main activity producer CHP plants is not available.

Consumption

- Consumption of electricity for distribution of district heat is included with *other 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).
- In 2014 data, the consumption of **electricity** in the mining and in the paper sectors was included under non-specified industry due to confidentiality issues.
- Data on direct use of **solar thermal** are available from 1989.
- Consumption of **heat** in industry and other sectors is available from 1984.

Capacity

- The breakdown of generating capacity of main activity producer and autoproducer electricity plants by fuel is not available from 1990 to 2003 and from 2006 to 2012.
- Peak load data for main activity producer plants includes data for autoproducer plants from 1992.
- Generating capacity of main activity producer electricity plants includes autoproducer plants prior to 1984.

- Prior to 1981, data on electrical capacity by type of generation are not available for main activity producer plants.

Switzerland

Sources

- Swiss Federal Office of Energy (SFOE), Ittigen.
- Carbura – Swiss Organisation for the Compulsory Stockpiling of Oil Products, Zurich.

General note

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

Supply

- In the 2016 edition, solar electricity production was revised to reflect the lag between time of sale and time of installation of solar panels.
- Heat production includes heat produced by nuclear power stations and distributed to other consumers.
- Electricity production from wind is available from 1996.
- **Solar** electricity production by autoproducers is available from 1990.

Transformation

- From 2012, the **municipal waste** autoproducer plant previously reported as electricity plant met the CHP requirements and was reclassified as such.
- **Biogas** is no longer being used for heat production as of 2011.
- The decrease in the use of **natural gas** in main activity CHP plants in 2007 is caused by the reduced operation of one plant after the start-up of a new waste-incineration plant and the shutting down of another plant. Use increases again in 2008 due to the re-starting of a district heating plant.
- The autoproducer heat plant that produced heat for sale using **municipal waste** was closed in 2006.
- The breakdown of **electricity** and heat generation from autoproducers by sector is not available after 1990.
- Prior to 1978, **heat** output from CHP plants is not available.

- The allocation of **electricity** production in main activity producer electricity only and CHP plants between 1967 and 1973, and in main activity producer CHP and autoproducer CHP plants in 1974 are Secretariat estimates.

Consumption

- In the 2016 edition, the final consumption of **heat** was revised and the issue of the statistical difference caused by the revision of the production in previous cycle was solved.
- Electricity** consumption in the transport equipment industry is included with machinery.
- 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.
- The breakdown of final consumption of **electricity** in the industry sector from 2000 to 2001 was estimated by the Secretariat.
- Direct use of **geothermal heat** and **solar thermal heat** is available from 1990.

Trade

- Electricity trade to and from non-specified/others represents trade with Liechtenstein.

Capacity

- For 1990 to 2005 the split of hydro and pumped hydro capacity between main activity producers and autoproducers is estimated based on the split of capacity at peak load.
- Electricity generating capacity for liquid fuels in main activity producer plants includes all combustible fuels prior to 1990.

Turkey

Source

Ministry of Energy and Natural Resources (Enerji ve Tabii Kaynaklar Bakanlığı), Ankara.

General note

In the middle of 2014, most autoproducer electricity, heat and CHP plants in Turkey were reclassified as main activity producer due to a change in the legislation.

Supply

- Other sources* **electricity** and **heat** production is available from 2013 and represents purchased steam (waste heat) from the industry.
- The distribution losses figures are not available yet due to the privatization of the distribution regions in Turkey.
- Electricity production from **wind** is available starting in 1998.

Transformation

- 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.
- A new **gas** fired main activity producer CHP plant was put into operation in 1999 and a new auto-producer electricity plant fuelled with **coking coal** started in 2000.
- 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.
- Data for **blast furnace gas** for electricity and heat generation are available from 1995.
- Data on electricity generated from **biofuels** are available from 1991.

Consumption

- Consumption in the machinery sector includes transport equipment.
- Comprehensive data on **electricity** consumption are available from 1973. This causes a break in the series between 1972 and 1973.

Trade

- Exports and imports of electricity to non-specified/others are respectively to Iraq and from Iran.
- Trades of electricity with Albania and Romania are not physical quantities, but contracted quantities.

Capacity

- Generating capacity reported in other type of generation corresponds to gas engines.

- Net electricity generating capacity by type of generation for both main activity producers and autoproducers is not available prior to 1999.

United Kingdom

Source

Department of Energy and Climate Change, London.

General notes

- 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 autoproducer electricity plants.
- The reorganisation and subsequent privatisation of the electricity supply industry in 1990 has resulted in some breaks in series.

Supply

- Electricity production from **solar PV** is available from 1999. The launch of a feed-in-tariff scheme in April 2010 resulted in a rapid increase of capacity and corresponding electricity production growth from solar PV in the following years.
- In 1996, the break in electricity production from **nuclear** is due to a reclassification of plants from autoproducer to main activity producer plants.
- Data on electricity production from **wind** is available from 1989.

Transformation

- In 2007, outputs of electricity from petroleum coke are included in fuel oil.
- Prior to 2003, all outputs of electricity and heat from oil products are reported in the other oil products category.
- Heat production from autoproducers is available starting in 1999.
- Inputs and output from natural gas for main activity producer electricity production are included in autoproducer electricity for 1990 (for reasons of confidentiality).

Consumption

- Consumption in *gas works* includes electricity use in the transmission/distribution of public supply gas.
- Consumption in the *non-metallic mineral products* sector includes mining and quarrying.
- Electricity** consumption in *coal mines* includes consumption in patent fuel plants.
- Data for **electricity** consumption in *transport sector* was classified by sub-sector only starting from 2004 resulting in a break in time series between 2003 and 2004. Prior to 2004, non-specified transport includes consumption for traction by urban rails and road vehicles, and consumption for non-traction by railways and bus stations and airports. From 2004 onwards, road vehicles consumption is included under road transport. Prior to 2004, electricity consumption in rail refers to industrial rail only. From 2004 onwards it includes both industrial and urban rail.
- Consumption in the *machinery* sub-sector includes that of the transport equipment industry before 1996.
- Starting in 1990, small amounts of **electricity** used in heat pumps have been included in *residential*.
- From 1984 onwards, the **electricity** consumption in the industry non-specified sub-sector includes that of the *wood and wood products* sub-sector and unallocated consumption.

Capacity

- Prior to 1981 for main activity producer plants and prior to 1983 for autoproducers, data on electrical capacity by type of generation are not available.

United States

Source

Energy Information Administration, Washington, DC.

General notes

- Between 2001 and 2001, 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.

- End-use energy consumption data for the United States present a break in series with historical data due to a change in methodology in 2014. The break in series occurs between 2011 and 2012 for oil; and between 2001 and 2002 for electricity and natural gas. The new methodology is based on the last historical year of the most recent Annual Energy Outlook (AEO) publication. Changes occur primarily in reported end-use energy consumption in the industrial sector and its subsectors, including the non-manufacturing industries of mining, construction and agriculture. Historical revisions are pending.
- Due to other changes in reporting methodologies, there are numerous breaks in series for the US data, particularly in 1992, 1999, 2001, 2002 and 2013. 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.

Supply

- 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 US administration 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 other non-specified.
- Data for electricity absorbed by **pumping** and electricity production from **pumped storage** plants became available starting in 1987.

Transformation

- 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.
- Two **geothermal** plants were reclassified as CHP in 2014, causing new series to appear.
- The low efficiencies from 2011 for **other bituminous coal** autoproducer electricity plants are due to the fact that one unit; the Albany Brewery Power Plant only produces unsold heat.

- From 2007 to 2009, heat from **industrial waste** includes recovered heat from industrial processes. From 2010, the electricity produced from recovered heat is reported under **other sources**.
- The decline in **patent fuel** used for electricity production in 2008 and subsequent cessation of the time series in 2009 is a result of the termination of the patent fuel tax credit in 2008 which had previously made the fuel economical for electricity production.
- The US administration changed its methodology for calculating **heat** production in CHP plants, and revised data back to 2006. This leads to breaks in the time series between 2005 and 2006.
- From 2004 onwards, the EIA has reported electricity and heat production from **anthracite** under **sub-bituminous coal**. The secretariat estimated the split of output by fuel type based on the assumption that the plant efficiencies of the aggregate are equal to that of each part.
- Starting in 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.
- Prior to 2001, data on plants consuming **other bituminous coal**, **sub-bituminous coal** and **lignite** have been estimated by the secretariat using information provided in the EIA's Annual Electricity Generator Report – Utility.
- Data for **peat** are confidential between 1994 and 1998 and from 2000 are not reported.
- Prior to 2000, autoproducers include small and independent power producers which under IEA definitions are considered as main activity producers. Production from these small and independent power producers accounts for about 25% of reported production of electricity by autoproducers in the United States. This reclassification causes breaks between 1999 and 2000.
- In the 2003 edition, the US Administration reclassified some plants to autoproducers. This reclassification causes more breaks between 1998 and 1999.
- Data for **heat** produced in main activity producer heat and autoproducer CHP plants are available from 1992 to 1999.
- From 1999 onwards, the fuel used in **heat** production by autoproducers is included in final consumption because the US administration cannot distinguish between the heat used directly on-site and the heat sold. Therefore, this may underestimate the heat sold to third parties.

- 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 could not be separated.
- The breakdown of fuel used and production of **heat** in main activity producer heat plants have been estimated by the secretariat for 1992 and 1993.
- Prior to 1991 some of the fuel inputs to **electricity** and **heat** production reported for autoproducer plants are reported as final consumption in the particular economic sector in which the autoproducer is operating.
- Prior to 1989, there are no data available for autoproducers.
- Sub-bituminous coal** inputs for electricity and heat production are included in **hard coal** before 1983.

Consumption

- 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.

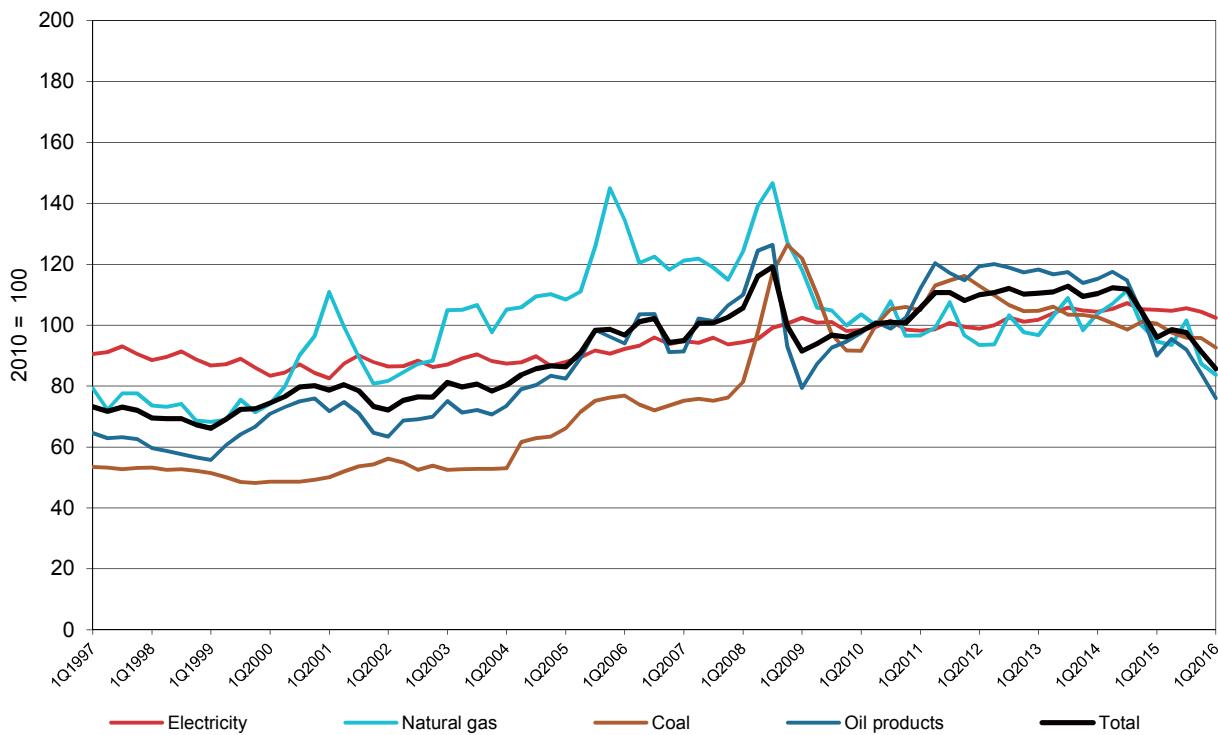
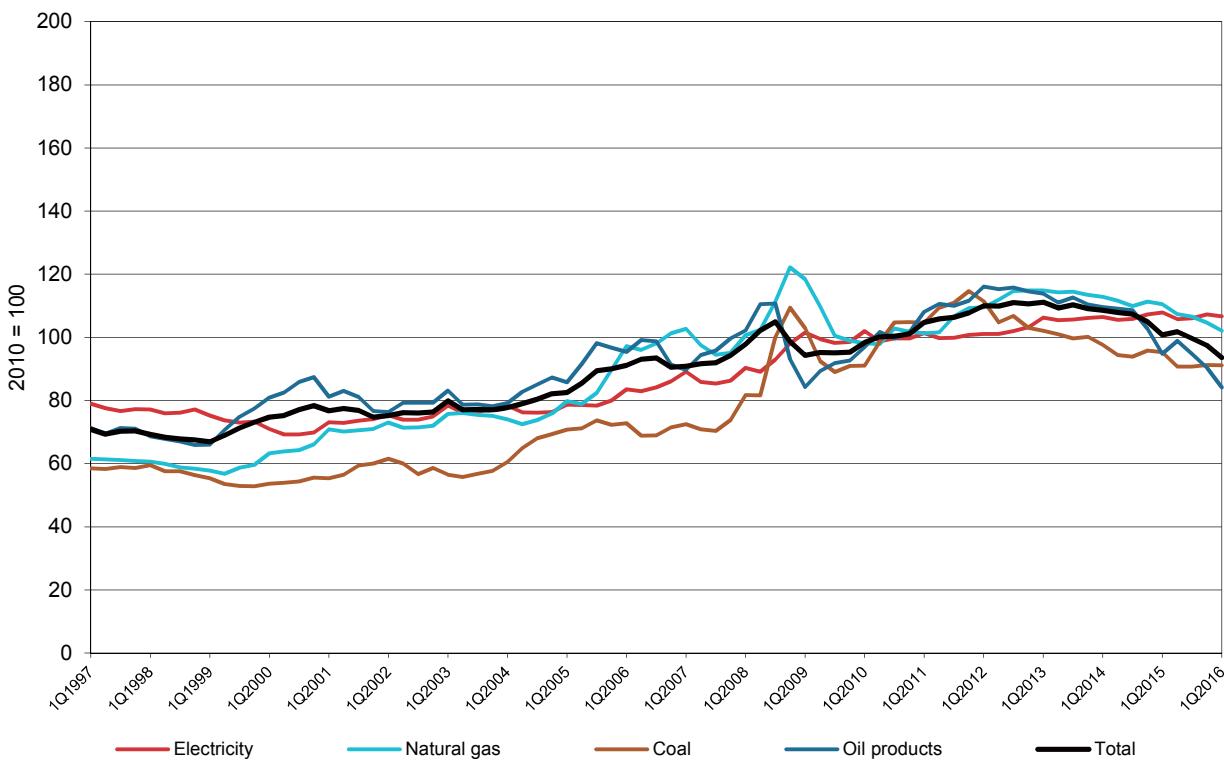
- Since 1995, **heat** consumption data are no longer collected and have been estimated, resulting in breaks in the time series between 1994 and 1995.
- The consumption of **heat** sold in industry is available from 1991 and in energy industry own use from 1992.
- Prior to 1991, total consumption of **heat** sold referred to consumption in commercial/public services.

Capacity

- Capacity is net summer capacity.
- In the 2015 edition, revised data for hydroelectricity, pumped hydro and mixed plants capacity have been submitted back to 1995 data. This can cause breaks in the time series between 1994 and 1995.
- Data on electrical capacity for autoproducers are available from 1989.
- The breakdown of capacity by fuel type for 1989 is a secretariat estimate.
- Capacity by type of generation is not reported prior to 1981.

PART IV

PRICES

Figure 1.1. OECD - Indices of real energy prices for end-users**Figure 1.2. OECD Europe - Indices of real energy prices for end-users**

Source: IEA/OECD *Energy Prices & Taxes*.

Figure 1.3. United States - Indices of real energy prices for end-users

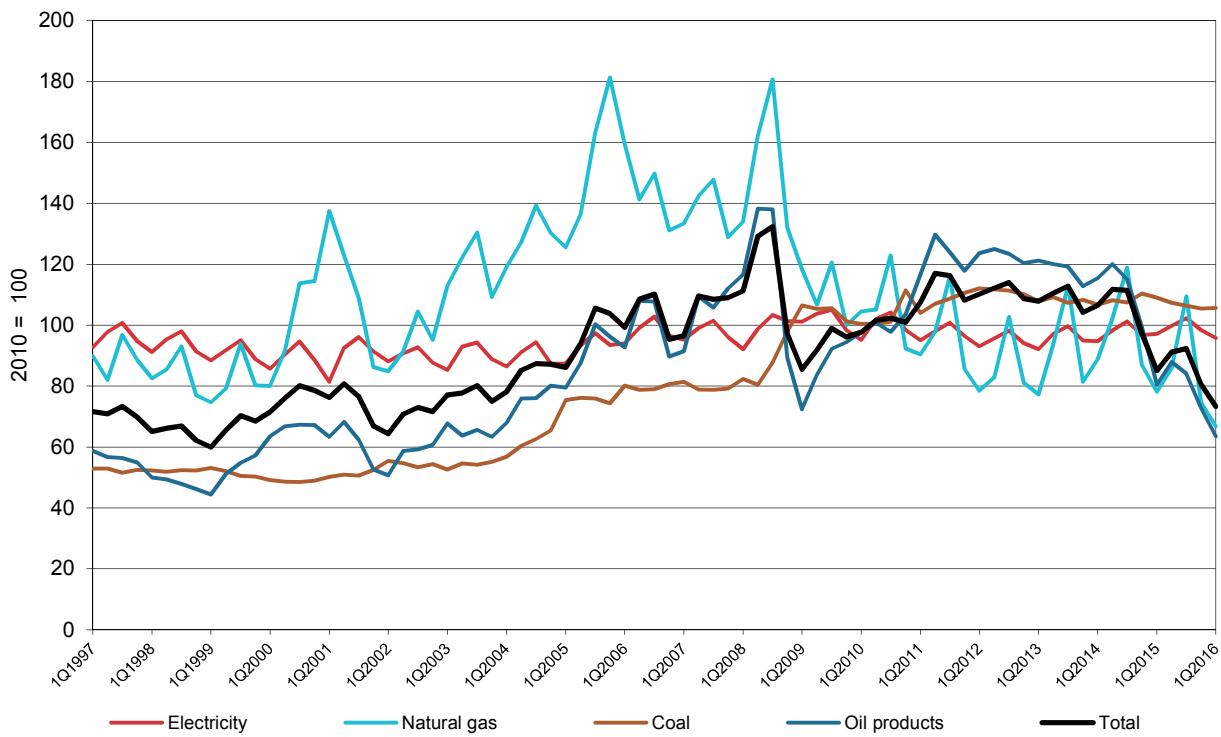
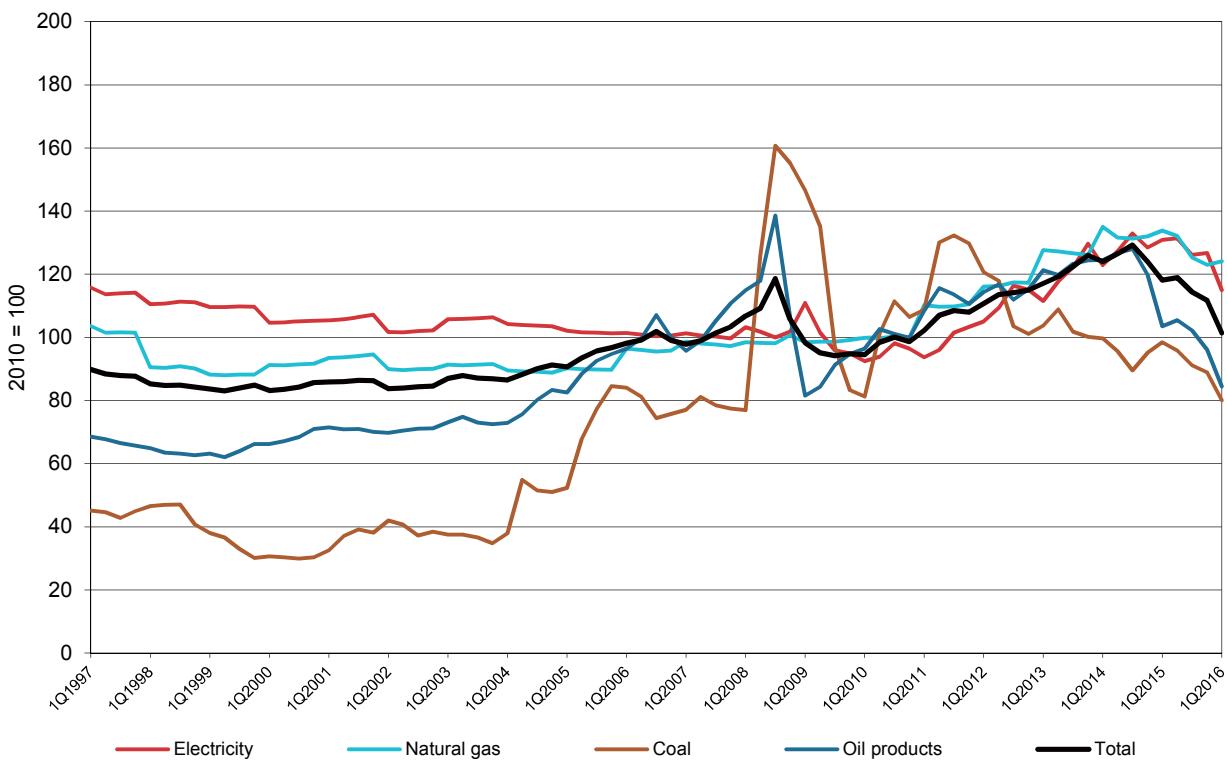


Figure 1.4. Japan - Indices of real energy prices for end-users



Source: IEA/OECD Energy Prices & Taxes.

Table 1.1. OECD: Indices of real energy prices for end-users

(2010=100)	1978	1990	1995	2000	2005	2010	2012	2013	2014	2015
Total energy										
Industry	64.1	70.6	65.8	75.0	93.6	100.0	109.3	111.0	110.0	96.5
Households	81.7	82.1	74.7	80.3	93.1	100.0	111.8	110.2	108.3	94.5
Both sectors	72.6	76.2	70.3	77.7	93.4	100.0	110.5	110.6	109.2	95.5
Oil products										
Industry ¹	47.2	55.5	52.3	70.6	91.0	100.0	117.6	116.5	113.7	93.3
Households ²	76.0	73.3	64.2	75.6	91.9	100.0	119.9	116.7	112.3	88.3
Both sectors	65.7	66.9	59.9	73.7	91.6	100.0	118.9	116.6	112.9	90.4
Coal										
Industry	79.2	58.0	47.5	47.6	72.0	100.0	108.8	104.6	100.8	97.4
Households	42.8	66.0	70.7	70.3	74.7	100.0	104.4	103.1	101.2	100.8
Both sectors	74.9	58.6	49.3	48.8	72.2	100.0	108.5	104.4	100.8	97.6
Natural gas										
Industry	70.7	70.9	61.5	87.3	136.6	100.0	89.6	98.5	103.2	88.5
Households	74.4	82.3	75.4	82.5	103.7	100.0	102.2	99.8	100.8	95.1
Both sectors	72.2	75.8	68.0	85.2	120.3	100.0	95.4	99.1	102.1	91.6
Electricity										
Industry	85.3	93.3	89.0	80.6	88.4	100.0	99.9	104.7	105.6	104.7
Households	111.5	106.5	101.9	89.9	92.0	100.0	101.3	103.6	105.1	105.3
Both sectors	95.6	98.9	94.6	84.7	90.2	100.0	100.6	104.2	105.3	105.0

Table 1.2. OECD Europe: Indices of real energy prices for end-users

(2010=100)	1978	1990	1995	2000	2005	2010	2012	2013	2014	2015
Total energy										
Industry	52.6	61.7	61.1	71.0	86.1	100.0	110.3	109.9	106.9	98.8
Households	73.5	78.5	76.0	83.3	88.2	100.0	110.2	110.0	107.7	101.7
Both sectors	60.9	69.0	67.8	76.4	87.0	100.0	110.3	109.9	107.2	99.9
Oil products										
Industry ¹	45.0	57.1	58.9	80.5	93.6	100.0	115.4	112.4	108.3	95.6
Households ²	71.7	75.0	71.8	88.1	92.5	100.0	115.5	111.2	105.9	93.0
Both sectors	58.5	66.9	65.8	84.2	93.1	100.0	115.4	112.0	107.5	94.7
Coal										
Industry	62.3	56.6	52.4	51.8	71.4	100.0	106.9	100.3	94.4	90.7
Households	42.8	66.0	70.7	70.3	74.7	100.0	104.4	103.1	101.2	100.8
Both sectors	57.5	58.3	55.8	54.4	72.0	100.0	106.4	100.9	95.7	92.6
Natural gas										
Industry	50.3	51.1	49.3	59.9	84.5	100.0	112.9	116.1	110.8	105.9
Households	65.7	70.5	68.6	69.0	81.3	100.0	112.0	112.7	111.9	108.5
Both sectors	55.8	59.8	58.9	64.4	82.8	100.0	112.4	114.2	111.4	107.2
Electricity										
Industry	67.4	77.1	73.4	61.4	74.4	100.0	100.2	104.4	104.6	105.1
Households	91.2	94.0	92.9	82.4	85.9	100.0	103.8	107.7	108.4	108.9
Both sectors	75.6	83.7	81.3	69.8	79.2	100.0	101.8	105.9	106.2	106.7

Source: IEA/OECD Energy Prices & Taxes.

Note: "Real" price indices are the current price indices divided by the country specific producer price index for industrial prices, and by the consumer price index for the household sector.

1. Industry includes prices for automotive diesel oil.

2. Households includes prices for gasoline.

Table 1.3. United States: Indices of real energy prices for end-users

(2010=100)	1978	1990	1995	2000	2005	2010	2012	2013	2014	2015
Total energy										
Industry	76.5	80.5	69.4	78.6	103.6	100.0	105.3	105.9	106.4	85.2
Households	84.9	81.8	70.5	75.5	94.1	100.0	113.0	108.9	105.7	86.9
Both sectors	82.7	81.4	70.2	76.4	96.8	100.0	110.8	108.1	105.9	86.4
Oil products										
Industry ¹	50.5	62.5	49.6	63.9	92.0	100.0	121.4	119.1	114.8	84.1
Households ²	77.1	69.1	56.3	66.9	90.4	100.0	123.8	118.1	111.5	80.2
Both sectors	72.3	67.7	54.8	66.2	90.8	100.0	123.1	118.4	112.4	81.3
Coal										
Industry	90.0	61.1	53.0	48.8	74.9	100.0	111.3	108.2	108.2	107.1
Households
Both sectors	90.0	61.1	53.0	48.8	74.9	100.0	111.3	108.2	108.2	107.1
Natural gas										
Industry	82.7	82.4	68.7	108.4	182.4	100.0	65.4	77.9	92.3	67.2
Households	76.8	90.8	81.3	94.7	127.8	100.0	90.8	86.2	90.0	85.2
Both sectors	78.9	87.7	76.9	100.0	145.5	100.0	80.7	83.2	90.8	78.8
Electricity										
Industry	107.6	107.2	97.0	89.0	98.3	100.0	89.3	91.1	93.9	96.0
Households	124.5	113.2	103.9	89.7	91.1	100.0	97.4	98.1	99.6	100.7
Both sectors	117.9	111.1	101.4	89.4	93.1	100.0	95.3	96.2	98.1	99.5

Table 1.4. Japan: Indices of real energy prices for end-users

(2010=100)	1978	1990	1995	2000	2005	2010	2012	2013	2014	2015
Total energy										
Industry	76.0	81.5	77.7	79.8	91.5	100.0	118.3	127.8	134.2	124.3
Households	111.3	105.3	94.0	87.6	96.0	100.0	110.3	117.0	120.9	110.7
Both sectors	92.0	92.8	86.1	84.2	94.1	100.0	113.3	121.1	125.9	115.8
Oil products										
Industry ¹	47.5	51.2	48.7	58.4	84.8	100.0	121.3	131.4	134.9	105.5
Households ²	101.7	91.7	78.0	74.0	92.0	100.0	111.8	118.4	120.6	100.3
Both sectors	78.3	74.0	65.4	68.2	89.6	100.0	114.6	122.2	124.8	101.8
Coal										
Industry	94.5	54.7	33.4	30.3	70.6	100.0	110.8	103.7	94.9	93.6
Households
Both sectors	94.5	54.7	33.4	30.3	70.6	100.0	110.8	103.7	94.9	93.6
Natural gas										
Industry	148.5	93.8	75.4	84.6	80.9	100.0	129.1	147.0	155.5	153.2
Households	102.8	99.9	90.5	93.6	94.1	100.0	108.9	114.3	118.1	113.2
Both sectors	113.5	98.9	87.5	91.4	89.9	100.0	116.8	126.9	132.5	128.6
Electricity										
Industry	93.0	108.8	111.4	104.8	101.6	100.0	115.1	125.6	136.3	137.0
Households	132.7	126.6	117.2	105.1	101.6	100.0	108.8	115.9	121.9	122.9
Both sectors	106.7	115.9	114.1	104.9	101.6	100.0	111.4	119.9	127.9	128.8

Source: IEA/OECD Energy Prices & Taxes.

Note: "Real" price indices are the current price indices divided by the country specific producer price index for industrial prices, and by the consumer price index for the household sector.

1. Industry includes prices for automotive diesel oil.
2. Households includes prices for gasoline.

Table 2a. Electricity prices for industry in US dollars/MWh

	1978	1990	1995	2000	2005	2010	2011	2012	2013	2014
Australia	26.82	45.95	60.54	45.18	138.06	141.16	135.11
Austria	39.49	65.38	81.04	38.25	101.74
Belgium	44.56	70.08	76.61	47.74	..	124.50	138.42	126.61	128.24	128.10
Canada	15.25	37.53	39.27	38.45	55.21	73.00	80.98	85.17	96.40	85.36
Chile	47.58	77.34	151.55	154.35	126.70	118.02	103.84
Czech Republic	..	29.53	60.66	42.96	80.57	143.88	159.78	144.87	148.84	122.84
Denmark	48.97	62.23	69.24	57.69	92.73	114.38	118.17	111.06	119.62	101.80
Estonia	93.16	100.95	100.96	124.85	117.89
Finland	46.74	63.14	60.22	38.62	70.36	94.85	113.56	103.89	106.61	104.52
France	32.41	56.39	60.18	35.76	49.81	106.95	121.45	116.22	126.02	125.96
Germany	47.42	91.28	99.86	40.55	83.98	135.83	157.12	148.71	169.32	175.27
Greece	26.85	65.09	61.91	42.28	66.96	113.91	125.49	133.74	141.91	142.76
Hungary	..	74.36	45.02	48.72	95.56	132.67	137.13	131.57	132.71	123.29
Ireland	37.61	67.58	65.45	48.94	99.38	137.22	152.29	155.20	173.32	166.38
Israel	67.49	64.09	79.63	86.85	97.04	107.90	121.36	118.12
Italy	43.15	97.58	92.75	88.94	173.91	258.09	279.12	291.79	321.70	327.78
Japan	62.25	122.24	185.18	143.19	128.83	162.11	188.29	203.98	182.94	188.12
Korea	42.81	69.92	61.11	51.56	58.82
Luxembourg	34.96	115.89	117.91	111.70	106.66	98.91
Mexico	22.03	39.99	27.00	50.86	87.80	104.04	115.33	114.74	121.53	121.46
Netherlands	31.16	52.30	74.59	57.05	c	116.09	118.40	109.51	112.84	118.08
New Zealand	20.26	34.13	40.77	28.26	63.67	70.45	81.43	88.61	94.92	100.08
Norway	11.64	35.15	..	19.44	43.44	73.75	71.09	57.56	68.71	54.60
Poland	..	25.37	39.59	36.89	69.92	120.38	121.59	114.59	109.48	99.93
Portugal	26.94	98.17	117.65	67.00	97.95	123.18	139.15	147.30	152.06	155.96
Slovak Republic	20.75	29.18	48.63	42.25	86.37	170.85	180.21	171.46	180.80	158.68
Slovenia	121.39	126.29	117.77	125.73	115.11
Spain	27.98	97.39	75.70	42.58	83.33	131.88	148.67
Sweden	28.78	49.85	39.39	96.29	104.08	89.19	90.43	81.73
Switzerland	51.28	89.14	125.12	69.08	80.58	112.21	131.88	130.24	132.55	128.74
Turkey	61.50	82.04	76.03	79.95	106.41	150.92	138.41	148.22	146.63	130.81
United Kingdom	37.97	70.69	68.49	55.40	86.71	121.06	129.57	134.19	139.04	154.35
United States	27.90	47.50	46.60	46.00	57.35	67.89	68.20	66.72	68.38	71.01
OECD Total	36.40	68.25	76.41	59.68	80.31	112.66	121.85	120.87	123.39	123.87

Note: Prices are in current US dollars.

Table 2b. Electricity prices for industry in national currency/MWh

	1978	1990	1995	2000	2005	2010	2011	2012	2013	2014
Australia	23.4	58.9	81.7	78.0
Austria	41.7	54.0	59.4	41.5	81.9	107.4	106.3	101.8
Belgium	34.8	58.1	56.0	51.8	..	94.0	99.6	98.5	96.6	96.6
Canada	17.4	43.8	53.9	57.1	66.9	75.2	80.1	85.1	99.3	94.3
Chile	25664.3	43288.2	77286.8	74614.2	61573.0	58452.1	59254.9
Czech Republic	..	530.0	1610.0	1660.0	1930.0	2745.3	2823.7	2830.6	2911.3	2550.0
Denmark	269.9	385.0	388.0	466.6	556.0	643.0	633.0	643.0	672.0	572.0
Estonia	70.3	72.6	78.6	94.1	88.9
Finland	32.3	40.6	44.2	41.9	56.6	71.6	81.7	80.8	80.3	78.8
France	22.3	46.8	45.8	38.8	40.1	80.7	87.3	90.4	94.9	94.9
Germany	48.7	75.4	73.2	44.0	67.6	102.6	113.0	115.7	127.6	132.1
Greece	2.9	30.2	42.1	45.2	53.9	86.0	90.3	104.1	106.9	107.6
Hungary	..	4700.0	5660.0	13752.5	19066.5	27563.4	27551.8	29578.5	29671.7	28678.8
Ireland	24.9	51.9	53.1	80.0	103.6	109.5	120.7	130.6	125.4	..
Israel	203.3	261.3	357.3	324.0	346.8	415.4	438.0	422.5
Italy	18.9	60.4	78.0	96.5	140.0	194.9	200.7	227.0	242.3	247.0
Japan	13100.0	17700.0	17420.0	15440.0	14187.6	14227.2	15008.6	16279.7	17854.6	19913.0
Korea	20720.0	49500.0	47140.0	58300.0	60250.0
Luxembourg	27.3	87.5	84.8	86.9	80.4	74.6
Mexico	0.5	113.6	173.4	480.8	956.1	1314.2	1434.0	1508.9	1551.9	1616.1
Netherlands	30.6	43.2	54.3	61.9	c	87.7	85.2	85.2	85.0	89.0
New Zealand	19.5	57.3	62.1	62.3	90.5	97.8	103.1	109.4	115.8	120.7
Norway	61.0	220.0	..	171.0	279.8	445.6	398.4	334.7	403.8	344.1
Poland	..	24.1	96.0	160.3	226.1	362.9	360.2	372.6	346.0	315.2
Portugal	5.9	69.7	88.0	72.7	78.9	93.0	100.1	114.6	114.6	117.6
Slovak Republic	9.9	17.4	48.0	64.9	89.0	129.0	129.6	133.4	136.2	119.6
Slovenia	91.7	90.8	91.6	94.7	86.8
Spain	12.9	59.7	56.7	46.2	67.1	99.6	106.9
Sweden	130.0	295.0	281.0	693.5	675.4	603.8	589.0	560.7
Switzerland	91.7	123.8	147.9	116.6	100.4	117.0	117.0	122.1	122.9	117.8
Turkey	0.0	0.2	3.5	50.0	142.7	226.2	231.4	265.6	279.3	286.3
United Kingdom	19.8	39.8	43.4	36.6	47.7	78.4	80.8	84.7	88.9	93.8
United States	27.9	47.5	46.6	46.0	57.3	67.9	68.2	66.7	68.4	71.0

Source: IEA/OECD Energy Prices & Taxes.

Table 2c. Electricity prices for households in US dollars/MWh

	1978	1990	1995	2000	2005	2010	2011	2012	2013	2014
Australia	38.73	71.70	79.43	63.19	..	257.63	272.66	253.92	271.90	257.53
Austria	79.83	155.69	191.54	117.51	174.16	266.93
Belgium	114.85	166.59	198.08	132.26	..	231.66	264.18	249.94	263.77	243.86
Canada	24.11	53.12	57.05	52.93	75.68	93.28	104.94	104.58	103.97	99.94
Chile	..	41.23	47.88	85.42	119.63	208.83	210.79	185.38	172.31	151.44
Czech Republic	34.38	26.74	37.30	54.35	105.61	185.53	210.50	198.95	205.57	174.44
Denmark	67.90	164.47	208.61	197.44	294.54	356.29	409.19	383.43	393.93	403.12
Estonia	127.09	136.54	138.95	174.76	168.90
Finland	57.74	102.80	108.86	77.79	120.87	175.39	213.47	194.87	202.27	201.35
France	80.52	150.12	166.62	101.66	141.60	165.28	186.96	175.14	193.36	207.12
Germany	85.39	163.80	203.00	120.65	212.42	318.74	351.71	338.75	387.63	395.05
Greece	62.96	118.53	113.68	70.81	112.17	158.41	172.97	180.53	216.38	235.64
Hungary	..	38.76	58.46	65.31	146.10	218.63	218.53	204.16	182.01	158.21
Ireland	56.34	131.25	131.90	101.38	192.55	232.58	259.29	270.32	292.66	305.27
Israel	99.53	93.04	118.73	139.84	148.76	151.62	171.49	176.17
Italy	50.00	156.70	169.32	135.48	197.52	263.17	278.68	288.40	305.56	306.82
Japan	93.14	176.80	269.48	214.04	198.23	243.77	274.42	290.60	254.25	253.26
Korea	66.53	96.19	112.09	83.78	88.92	83.17	88.68	93.08	101.42	110.23
Luxembourg	68.50	123.76	146.10	99.26	186.58	215.36	220.94	209.25	208.28	219.85
Mexico	35.24	45.83	44.79	68.28	97.17	89.67	95.16	90.20	90.85	90.08
Netherlands	82.38	117.19	135.03	131.06	236.02	221.15	237.73	238.24	257.20	252.43
New Zealand	25.16	54.97	78.29	60.15	131.10	175.26	203.08	216.51	226.19	236.08
Norway	28.43	73.34	78.43	57.81	122.00	175.91	170.52	135.98	148.51	127.10
Poland	..	10.32	61.94	65.47	120.90	179.12	198.21	190.87	196.30	192.15
Portugal	46.58	147.32	180.61	119.54	179.50	215.23	245.76	260.67	279.57	291.56
Slovak Republic	34.37	27.68	31.45	50.12	140.83	212.97	241.57	229.64	238.05	213.98
Slovenia	185.47	201.71	193.44	212.76	212.72
Spain	57.27	189.72	194.53	117.14	153.55	246.72	295.11
Sweden	46.49	87.87	94.48	218.00	247.91	223.96	233.66	214.45
Switzerland	65.98	110.74	165.30	111.32	138.86	179.99	222.72	204.16	203.69	209.29
Turkey	77.00	50.64	75.65	84.42	118.00	184.14	169.07	184.75	189.96	169.59
United Kingdom	52.17	118.47	127.19	106.72	150.41	183.94	209.28	217.77	230.07	256.22
United States	43.10	78.50	84.10	82.00	94.47	115.77	117.17	118.78	121.24	125.18
OECD Total	55.19	102.42	121.69	100.92	124.65	159.64	170.84	171.06	173.53	174.18

Note: Prices are in current US dollars.

Table 2d. Electricity prices for households in national currency/MWh

	1978	1990	1995	2000	2005	2010	2011	2012	2013	2014
Australia	33.8	91.9	107.2	109.1	259.0	271.1	285.7
Austria	84.3	128.6	140.4	127.5	140.2	194.5	196.1	197.6	204.8	201.2
Belgium	89.7	138.1	144.8	143.5	..	174.9	190.0	194.5	198.7	183.8
Canada	27.5	62.0	78.3	78.6	91.7	96.1	103.8	104.5	107.1	110.4
Chile	..	12570.0	19000.0	46075.1	66958.6	106497.7	101901.8	90093.5	85339.8	86417.3
Czech Republic	495.0	480.0	990.0	2100.0	2530.0	3540.0	3720.0	3887.0	4021.0	3621.0
Denmark	374.2	1017.5	1169.0	1596.9	1766.1	2003.0	2192.0	2220.0	2213.0	2265.0
Estonia	95.9	98.2	108.1	131.7	127.3
Finland	39.9	66.1	79.9	84.4	97.3	132.4	153.5	151.6	152.4	151.8
France	55.4	124.6	126.8	110.3	114.0	124.8	134.5	136.3	145.7	156.1
Germany	87.7	135.3	148.8	130.9	171.0	240.7	253.0	263.6	292.0	297.8
Greece	6.8	55.0	77.3	75.7	90.3	119.6	124.4	140.5	163.0	177.6
Hungary	..	2450.0	7350.0	18435.2	29150.6	45421.6	43904.8	45898.3	40692.9	36803.8
Ireland	37.3	100.8	104.6	110.0	155.0	175.6	186.5	210.3	220.5	230.1
Israel	299.7	379.3	532.8	521.7	531.7	583.7	618.9	630.2
Italy	21.9	97.0	142.4	147.0	159.0	198.7	200.4	224.4	230.2	231.2
Japan	19600.0	25600.0	25350.0	23080.0	21830.6	21392.9	21874.4	23192.4	24814.5	26808.0
Korea	32200.0	68100.0	86470.0	94720.0	91070.0	96100.0	98200.0	104800.0	111050.0	116080.0
Luxembourg	53.5	102.6	106.8	107.7	150.2	162.6	158.9	162.8	156.9	165.7
Mexico	0.8	130.2	287.6	645.5	1058.1	1132.7	1183.2	1186.1	1160.2	1198.5
Netherlands	80.9	96.8	98.3	142.2	190.0	167.0	171.0	185.3	193.7	190.3
New Zealand	24.2	92.2	119.3	132.6	186.3	243.2	257.2	267.4	276.0	284.7
Norway	149.0	459.0	497.0	508.6	785.9	1062.8	955.7	790.7	872.7	801.0
Poland	..	9.8	150.2	284.5	391.0	540.0	587.1	620.7	620.4	606.1
Portugal	10.2	104.6	135.1	129.7	144.5	162.5	176.8	202.8	210.6	219.8
Slovak Republic	16.4	16.5	31.0	76.9	145.1	160.8	173.7	178.7	179.3	161.3
Slovenia	140.0	145.1	150.5	160.3	160.3
Spain	26.4	116.3	145.7	127.1	123.6	186.3	212.2
Sweden	210.0	520.0	674.0	1570.0	1608.7	1516.0	1521.8	1471.2
Switzerland	118.0	153.8	195.4	187.9	173.0	187.7	197.6	191.4	188.8	191.5
Turkey	0.0	0.1	3.5	52.8	158.3	276.0	282.6	331.0	361.8	371.2
United Kingdom	27.2	66.7	80.6	70.5	82.7	119.1	130.5	137.4	147.2	155.6
United States	43.1	78.5	84.1	82.0	94.5	115.8	117.2	118.8	121.2	125.2

Source: IEA/OECD Energy Prices & Taxes.

Table 2e. Electricity prices for households in US dollars/MWh

Converted with purchasing power parities

	1978	1990	1995	2000	2005	2010	2011	2012	2013	2014
Australia	35.20	67.38	82.02	83.41	168.17	186.97	194.34
Austria	81.24	140.25	150.15	141.66	158.17	231.31	234.72	240.87	255.05	248.96
Belgium	92.52	153.36	158.64	161.10	..	204.91	226.23	234.18	243.65	223.79
Canada	25.12	49.94	64.72	64.03	75.56	78.78	83.72	83.96	88.11	89.55
Chile	..	75.66	69.91	160.86	200.66	297.93	292.81	259.46	234.38	230.18
Czech Republic	..	87.14	89.33	147.79	176.72	253.87	277.65	290.40	311.54	278.95
Denmark	48.16	114.91	137.83	189.94	205.60	258.46	288.48	291.74	298.20	302.66
Estonia	183.17	187.35	205.83	247.92	235.89
Finland	51.90	64.85	79.85	84.85	99.57	145.47	169.13	166.13	166.91	164.32
France	67.96	120.56	127.49	117.48	123.45	145.73	159.25	160.60	177.89	190.64
Germany	74.13	140.29	147.81	135.41	197.26	302.35	322.57	335.46	375.66	383.68
Greece	97.37	163.19	134.69	111.69	126.46	170.55	177.67	210.78	265.08	291.93
Hungary	..	108.74	119.09	170.92	226.69	362.29	351.74	361.07	321.86	282.79
Ireland	67.08	125.11	126.97	114.39	153.43	208.43	224.11	254.15	268.90	277.47
Israel	108.53	110.13	143.33	131.19	134.78	147.58	157.71	159.55
Italy	66.84	137.99	180.33	179.94	183.47	254.82	260.72	297.28	308.56	308.89
Japan	73.26	135.33	145.28	148.93	168.51	191.64	203.57	222.42	241.52	256.01
Korea	93.59	122.20	120.86	126.76	115.44	114.33	114.91	122.59	127.44	131.62
Luxembourg	57.27	113.56	112.44	114.62	157.62	176.41	177.64	180.10	175.72	185.62
Mexico	62.99	90.80	98.18	105.93	148.47	147.72	154.21	150.93	144.74	151.19
Netherlands	64.10	104.73	107.26	159.35	212.02	196.70	205.93	223.58	239.89	233.61
New Zealand	30.77	59.93	81.48	91.83	121.34	162.64	173.08	178.77	195.62	200.67
Norway	18.94	47.40	54.16	55.72	88.33	117.99	106.37	87.52	96.45	85.72
Poland	..	36.42	127.53	154.56	209.19	296.86	321.26	342.25	348.98	338.55
Portugal	81.87	208.65	207.98	185.41	211.16	257.27	285.28	343.48	361.25	378.99
Slovak Republic	..	72.81	71.61	146.40	256.31	315.40	335.06	348.07	360.43	327.61
Slovenia	218.46	230.15	245.02	267.54	269.44
Spain	78.47	188.72	205.11	173.18	161.60	259.84	301.49
Sweden	33.28	58.48	71.86	174.66	181.71	174.02	174.65	164.91
Switzerland	50.43	77.21	98.56	101.51	99.27	124.42	137.94	140.33	142.80	145.36
Turkey	77.00	80.59	141.52	186.68	190.55	293.65	284.95	322.62	335.05	319.21
United Kingdom	64.49	108.20	125.71	110.88	130.06	172.43	186.59	197.51	212.77	222.55
United States	43.10	78.50	84.10	82.00	94.47	115.77	117.17	118.78	121.24	125.18
OECD Total	50.83	94.38	104.72	104.68	121.56	154.23	160.76	164.11	172.08	174.78

Note: Prices are in current US dollars.

Source: IEA/OECD *Energy Prices & Taxes*.

Table 3a. Heavy fuel oil prices for electricity generation in US dollars/tonne

	1978	1990	1995	2000	2005	2010	2011	2012	2013	2014
Australia	91.93	..	c	70.33	182.18	370.40	455.72	643.71	343.59	461.70
Austria	94.83	127.05	c
Belgium	92.87	126.94	156.22	180.78	x	x	x	x	x	x
Canada	70.09	120.05	198.45	426.83	539.62	665.57	664.18	..
Chile
Czech Republic	70.83	151.42	94.20	111.47	207.22	c	c	c	c	c
Denmark
Estonia
Finland	97.84	179.44	206.59	183.32	319.26	535.28
France
Germany	103.80	146.20	140.90	167.28	287.92	503.18	..	c	c	c
Greece	68.06	159.81	193.91
Hungary	..	89.15	81.22	146.11	x	x	x	x	x	x
Ireland	..	111.55	122.47	140.48	284.62
Israel	496.32	769.22	805.85	x	x
Italy	85.75	134.60	134.65	c	c	c	c	c	c	c
Japan	109.48	207.11	210.79
Korea	..	130.77	145.08	275.67
Luxembourg
Mexico	11.45	55.10	55.70	124.86	177.93	412.34	537.65	602.77	550.27	501.55
Netherlands	91.10
New Zealand	c	c	c	c	c	c	c	c	c	c
Norway	x	x	x	x	x	x	x	x	x	x
Poland	..	86.21	96.91	112.69	251.43	505.00	673.38	715.20	665.22	615.17
Portugal	66.07	104.65	99.09	148.68	217.83	x	x	x	x	x
Slovak Republic	70.83	121.97	77.79	..	x	x	x	x	x	x
Slovenia
Spain	88.00	142.90	174.91	227.35
Sweden	92.10	106.79	129.38
Switzerland
Turkey	144.25	239.82	174.04	206.11	545.08	930.75	1120.63	1206.25	1121.48	994.33
United Kingdom	95.36	94.42	126.91	181.35	384.48	631.44	806.25	857.03	789.10	730.25
United States	88.65	139.37	108.74	178.64	292.94	528.64	766.42	881.57	808.95	803.33
OECD Total	91.65 e	141.94 e	139.56 e	167.37 e	252.59 e	469.63	594.52	670.73	604.23 e	597.44 e

Note: Prices are in current US dollars.

Table 3b. Heavy fuel oil prices for electricity generation in national currency/tonne

	1978	1990	1995	2000	2005	2010	2011	2012	2013	2014
Australia	80.2
Austria	100.1	104.9	c	76.3	146.7	279.7	327.8	500.8	258.8	348.0
Belgium	72.5	105.2	114.2	196.2	x	x	x	x	x	x
Canada	80.0	178.3	240.5	439.7	533.7	665.0	684.2	..
Chile
Czech Republic	1020.0	2718.0	2500.0	4307.0	4964.0	c	c	c	c	c
Denmark
Estonia
Finland	67.6	115.4	151.6	198.9	257.0	404.1
France
Germany	106.6	120.8	103.3	181.5	231.8	379.9	..	c	c	c
Greece	7.4	74.2	131.9
Hungary	..	5635.0	10211.0	41246.0	x	x	x	x	x	x
Ireland	..	85.7	97.1	152.4	229.1
Israel	1851.5	2749.3	3102.5	x	x
Italy	37.6	83.3	113.2	c	c	c	c	c	c	c
Japan	23040.0	29990.0	19829.0
Korea	..	92585.0	111917.0	311681.0
Luxembourg
Mexico	0.3	156.5	357.7	1180.3	1937.6	5208.6	6685.0	7926.5	7026.9	6673.4
Netherlands	89.5
New Zealand	c	c	c	c	c	c	c	c	c	c
Norway	x	x	x	x	x	x	x	x	x	x
Poland	..	81.9	235.0	489.7	813.1	1522.3	1994.6	2325.7	2102.3	1940.4
Portugal	14.5	74.3	74.1	161.3	175.3	x	x	x	x	x
Slovak Republic	33.9	72.7	76.8	..	x	x	x	x	x	x
Slovenia
Spain	40.6	87.6	131.0	246.7
Sweden	416.0	632.0	923.0
Switzerland
Turkey	0.0	0.6	8.0	128.9	731.1	1395.2	1873.3	2161.1	2135.9	2176.6
United Kingdom	49.7	53.2	80.4	119.8	211.5	408.9	502.9	540.9	504.8	443.6
United States	88.7	139.4	108.7	178.6	292.9	528.6	766.4	881.6	809.0	803.3

Source: IEA/OECD Energy Prices & Taxes.

Table 4a. Steam coal prices for electricity generation in US dollars/tonne

	1978	1990	1995	2000	2005	2010	2011	2012	2013	2014
Australia	10.21	27.39	..	53.76	87.52	109.10	127.87	129.13	137.82	112.57
Austria	163.51	76.45	c
Belgium	40.47	45.45	43.68	32.76	80.35
Canada	32.98	53.12	..	17.88	24.51	31.03	28.85	32.84	32.91	..
Chile	32.42	58.27	83.62	106.86	96.33	89.82	83.14
Czech Republic	3.75	7.47	9.65	7.97	c	c	c	c	c	c
Denmark
Estonia
Finland	45.02	62.95	84.35	38.64	72.06	101.72	137.00	116.12	94.92	94.40
France	..	50.88	49.10	37.25	74.89	108.27	128.29
Germany	82.94	140.21	161.76	42.41	79.74	117.80	153.14	126.45	108.87	100.59
Greece
Hungary	..	26.89	c	c	c	c	c	c	c	c
Ireland	..	55.85	47.14	30.31	70.09	83.36	125.35	88.13	81.65	72.63
Israel	96.92	140.94	133.31
Italy	36.60	59.98	57.81	c	72.72	107.72
Japan	72.09	81.05	73.43	40.93
Korea	55.10
Luxembourg	x	x	x	x	x	x	x	x	x	x
Mexico	..	31.50	25.60	31.82	40.97	54.57	56.12	56.93	60.86	63.13
Netherlands	40.99	71.37
New Zealand	c	c	c	c	c	c	c	c	c	c
Norway
Poland	..	11.39	31.98	28.23	47.55	78.51	84.87	83.14	77.67	75.16
Portugal	27.26	51.37	44.30	30.24	67.60	88.26	113.25	90.17	78.15	72.12
Slovak Republic	3.75	7.52
Slovenia	x	x	x	x	x	x	x	x	x	x
Spain	33.47
Sweden	47.60
Switzerland	x	x	x	x	x	x	x	x	x	x
Turkey	..	9.10	17.85	14.41	25.22	36.38	37.39	38.83	45.59	43.53
United Kingdom	42.14	77.74	55.40	44.43	65.57	96.22	128.48	105.11	96.21	93.36
United States	26.11	33.57	30.14	27.46	35.30	51.79	54.74	54.52	53.61	54.09
OECD Total	32.58	44.29	42.23	29.82	46.00	64.56	73.19	70.83	66.35	63.63

Note: Prices are in current US dollars.

Table 4b. Steam coal prices for electricity generation in national currency/tonne

	1978	1990	1995	2000	2005	2010	2011	2012	2013	2014
Australia	8.9	35.1
Austria	172.7	63.2	c	58.3	70.5	82.4	92.0	100.5	103.8	84.8
Belgium	31.6	37.7	31.9	35.5	64.7
Canada	37.6	62.0	..	26.6	29.7	32.0	28.5	32.8	33.9	..
Chile	17486.0	32616.5	42646.2	51657.3	46816.8	44485.1	47442.0
Czech Republic	54.0	134.0	256.0	308.0	c	c	c	c	c	c
Denmark
Estonia
Finland	31.1	40.5	61.9	41.9	58.0	76.8	98.5	90.3	71.5	71.2
France	..	42.2	37.4	40.4	60.3	81.7	92.3
Germany	85.2	115.8	118.6	46.0	64.2	88.9	110.1	98.4	82.0	75.8
Greece
Hungary	..	1700.0	c	c	c	c	c	c	c	c
Ireland	..	42.9	37.4	32.9	56.4	62.9	90.2	68.6	61.5	54.7
Israel	361.6	503.7	513.2
Italy	16.0	37.1	48.6	c	58.5	81.3
Japan	15170.0	11736.0	6908.0	4413.0
Korea	56431.7
Luxembourg	x	x	x	x	x	x	x	x	x	x
Mexico	..	89.5	164.4	300.8	446.2	689.3	697.8	748.7	777.2	839.9
Netherlands	40.3	59.0
New Zealand	c	c	c	c	c	c	c	c	c	c
Norway
Poland	..	10.8	77.5	122.7	153.8	236.7	251.4	270.4	245.5	237.1
Portugal	6.0	36.5	33.1	32.8	54.4	66.6	81.4	70.2	58.9	54.4
Slovak Republic	1.8	4.5
Slovenia	x	x	x	x	x	x	x	x	x	x
Spain	15.4
Sweden	215.0
Switzerland	x	x	x	x	x	x	x	x	x	x
Turkey	..	0.0	0.8	9.0	33.8	54.5	62.5	69.6	86.8	95.3
United Kingdom	22.0	43.8	35.1	29.4	36.1	62.3	80.1	66.3	61.5	56.7
United States	26.1	33.6	30.1	27.5	35.3	51.8	54.7	54.5	53.6	54.1

Source: IEA/OECD Energy Prices & Taxes.

Table 5a. Natural Gas prices for electricity generation in US dollars/MWh
(Gross calorific value basis)

	1978	1990	1995	2000	2005	2010	2011	2012	2013	2014
Australia	c	c	c	c	c	c	c	c	c	c
Austria	8.21	12.78
Belgium	7.23	10.62	9.44	c	c	c	c	c	c	c
Canada	3.81	5.41	..	11.59	19.20	17.58	15.88	13.06	16.05	..
Chile
Czech Republic	..	10.40	13.54	12.57
Denmark	c	c	c	c	c	c	c	c	c	c
Estonia
Finland	8.67	10.63	12.55	9.73	17.35	33.84	41.55	43.42	41.90	39.78
France
Germany	6.71	13.59	15.01	13.19
Greece	c	c	c	c	c	c	c
Hungary	..	8.46	7.55	8.59	24.58	32.62	41.89	43.96	42.16	43.07
Ireland	..	10.06	10.23	8.52	c	c	c	c	c	c
Israel	x	x	x	x	..	37.53	41.88	42.45
Italy	7.03	10.05	11.20	c	c	c	c	c	c	c
Japan	8.08	14.37	13.55
Korea	31.55
Luxembourg	c	c	c	c	c	c	c	c	c	c
Mexico	1.17	7.56	5.29	12.90	31.28	20.04	18.82	14.05	19.39	21.29
Netherlands	6.80	11.41	12.41
New Zealand	c	c	c	c	c	c	c	c	c	c
Norway
Poland	17.70	25.09	27.48	28.35	26.97	26.11
Portugal	x	x	x	..	25.09	31.75	41.43	46.08	47.56	47.05
Slovak Republic	4.96	8.51	10.99	8.72	24.72	34.28	44.36	53.27	49.68	51.09
Slovenia	c	c	c	c	c	c	c	c	c	c
Spain	6.65	13.09	14.36	14.19
Sweden
Switzerland
Turkey	..	12.18	13.89	14.49	25.90	34.12	33.32	40.97	43.20	38.43
United Kingdom	5.85	c	10.15	8.95	18.45	22.57	30.69	33.84	35.94	31.11
United States	4.85	7.92	6.61	14.86	28.02	17.32	16.13	11.66	14.76	17.00
OECD Total	5.54	9.99	9.01	13.63	26.80	19.91	19.72	15.67	18.73	20.27

Note: Prices are in current US dollars.

Table 5b. Natural gas prices for electricity generation in national currency/MWh
(Gross calorific value basis)

	1978	1990	1995	2000	2005	2010	2011	2012	2013	2014
Australia	c	c	c	c	c	c	c	c	c	c
Austria	8.7	10.6
Belgium	5.6	8.8	6.9	c	c	c	c	c	c	c
Canada	4.3	6.3	..	17.2	23.3	18.1	15.7	13.1	16.5	..
Chile
Czech Republic	..	186.7	359.4	485.8
Denmark	c	c	c	c	c	c	c	c	c	c
Estonia
Finland	6.0	6.8	9.2	10.6	14.0	25.5	29.9	33.8	31.6	30.0
France
Germany	6.9	11.2	11.0	14.3
Greece	c	c	c	c	c	c	c
Hungary	..	534.6	949.8	2424.0	4904.4	6777.2	8416.5	9882.8	9425.6	10017.9
Ireland	..	7.7	8.1	9.2	c	c	c	c	c	c
Israel	x	x	x	x	..	140.0	149.7	163.5
Italy	3.1	6.2	9.4	c	c	c	c	c	c	c
Japan	1700.8	2080.8	1274.6
Korea	32315.9
Luxembourg	c	c	c	c	c	c	c	c	c	c
Mexico	0.0	21.5	34.0	122.0	340.6	253.1	234.0	184.8	247.6	283.2
Netherlands	6.7	9.4	9.0
New Zealand	c	c	c	c	c	c	c	c	c	c
Norway
Poland	57.3	75.6	81.4	92.2	85.2	82.4
Portugal	x	x	x	..	20.2	24.0	29.8	35.9	35.8	35.5
Slovak Republic	2.4	5.1	10.8	13.4	25.5	25.9	31.9	41.4	37.4	38.5
Slovenia	c	c	c	c	c	c	c	c	c	c
Spain	3.1	8.0	10.8	15.4
Sweden
Switzerland
Turkey	..	0.0	0.6	9.1	34.7	51.1	55.7	73.4	82.3	84.1
United Kingdom	3.0	c	6.4	5.9	10.1	14.6	19.1	21.4	23.0	18.9
United States	4.9	7.9	6.6	14.9	28.0	17.3	16.1	11.7	14.8	17.0

Source: IEA/OECD Energy Prices & Taxes.

Online 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 online, either through annual subscription or pay-per-view access. More information on this service can be found on our website: <http://data.iea.org>

Eight Annual Publications

■ World Energy Statistics 2016

A new publication from the IEA presenting comprehensive world energy statistics, previously presented in *Energy Statistics of OECD Countries* and *Energy Statistics of Non-OECD Countries*, *World Energy Statistics* contains detailed data on all energy sources – coal, gas, oil, electricity, renewables and waste. It covers energy supply and consumption for 150 countries and regions, including all OECD countries, over 100 other key energy producing and consuming countries, as well as world and regional totals. The book includes detailed tables by country in original units for the year 2014, and summary time series on production, trade, and final consumption by sector. It also presents provisional 2015 supply data for OECD countries, and initial 2015 estimates for non-OECD countries' production and trade of natural gas, primary coal and oil.

Published August 2016 - Price €120

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A new release from the IEA presenting comprehensive energy balances for all the world's largest energy producing and consuming countries, *World Energy Balances* is formed by merging *Energy Balances of OECD Countries* and *Energy Balances of Non-OECD Countries*, previously published separately. The volume contains detailed data on the supply and consumption of energy for all OECD countries, over 100 other key energy producing and consuming countries, as well as world and regional totals. The book includes graphs and detailed data by country for all energy sources – coal, gas, oil, electricity, renewables and waste - expressed in balance format, for the year 2014. Alongside this, there are summary time series on production, trade, final consumption by sector, as well as key energy and economic indicators. The volume also presents provisional 2015 supply data for OECD countries, and initial 2015 estimates for non-OECD countries' production and trade of natural gas, primary coal and oil.

Published August 2016 - Price €120

■ Coal Information 2016

Coal Information provides a comprehensive review of historical and current market trends in the world coal sector, including 2015 provisional data. It provides a review of the world coal market in 2015, alongside a statistical overview of developments, which covers world coal production and coal reserves, coal demand by type, coal trade and coal prices. A detailed and comprehensive statistical picture of historical and current coal developments in the 34 OECD member countries, by region and individually is presented in tables and charts. Complete coal balances and coal trade data for selected years are presented on 22 major non-OECD coal-producing and -consuming countries, with summary statistics on coal supply and end-use statistics for about 40 countries and regions worldwide.

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Electricity Information provides a comprehensive review of historical and current market trends in the OECD electricity sector, including 2015 provisional data. It provides an overview of the world electricity developments in 2014 covering world electricity and heat production, input fuel mix, supply and consumption, and electricity imports and exports. More detail is provided for the 34 OECD countries with information covering production, installed capacity, input energy mix to electricity and heat production, consumption, electricity trades, input fuel prices and end-user electricity prices. It provides comprehensive statistical details on overall energy consumption, economic indicators, electricity and heat production by energy form and plant type, electricity imports and exports, sectoral energy and electricity consumption, as well as prices for electricity and electricity input fuels for each country and regional aggregate.

Published August 2016 - Price €150

■ Natural Gas Information 2016

Natural Gas Information is a detailed reference work on gas supply and demand covering not only the OECD countries but also the rest of the world; this publication contains essential information on LNG and pipeline trade, gas reserves, storage capacity and prices. The main part of the book concentrates on OECD countries, showing a detailed supply and demand balance for each country and for the three OECD regions: Americas, Asia-Oceania and Europe, as well as a breakdown of gas consumption by end user. Import and export data are reported by source and destination.

Published August 2016 - Price €165

■ Oil Information 2016

Oil Information is a comprehensive reference book on current developments in oil supply and demand. 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. Its core consists of a 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 2016 - Price €165

■ **Renewables Information 2016**

Renewables Information provides a comprehensive review of historical and current market trends in OECD countries, including 2015 provisional data. It provides an overview of the development of renewables and waste in the world over the 1990 to 2014 period. A greater focus is given to the OECD countries with a review of electricity generation and capacity from renewable and waste energy sources, including detailed tables. However, an overview of developments in the world and OECD renewable and waste market is also presented. The publication encompasses energy indicators, generating capacity, electricity and heat production from renewable and waste sources, as well as production and consumption of renewables and waste.

Published August 2016 - Price €110

■ **CO₂ Emissions from Fuel Combustion 2016**

In recognition of the fundamental importance of understanding energy related environmental issues, the IEA's *CO₂ Emissions from Fuel Combustion* provides a full analysis of emissions stemming from energy use. This annual publication has become an essential tool for analysts and policy makers in many international fora such as the Conference of the Parties, which will be meeting in Marrakesh, Morocco, from 7 to 18 November 2016. The data in this book are designed to assist in understanding the evolution of the emissions of CO₂ from 1971 to 2014 for 150 countries and regions by sector and by fuel. Emissions were calculated using IEA energy databases and the default methods and emission factors from the *2006 IPCC Guidelines for National Greenhouse Gas Inventories*.

Published November 2016 - Price €165

Two Quarterlies

■ **Oil, Gas, Coal and Electricity, Quarterly Statistics**

This publication provides up-to-date, detailed quarterly statistics on oil, coal, natural gas and electricity for 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. The gas trade data from 1st quarter 2011 onwards corresponds to physical flows (entries/exits). Moreover, oil as well as hard coal and brown coal production are reported on a worldwide basis.

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The IEA statistics website can be accessed at www.iea.org/statistics/

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IEA Publications, 9, rue de la Fédération, 75739 Paris Cedex 15
(61 2016 14 1E1) ISBN 978-92-64-25865-5 ISSN 2078-3442

Typesetted by the IEA, August 2016

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Electricity Information provides a comprehensive review of historical and current market trends in the OECD electricity sector, including 2015 provisional data. It provides an overview of the world electricity developments in 2014 covering world electricity and heat production, input fuel mix, supply and consumption, and electricity imports and exports. More detail is provided for the 34 OECD countries with information covering production, installed capacity, input energy mix to electricity and heat production, consumption, electricity trades, input fuel prices and end-user electricity prices. It provides comprehensive statistical details on overall energy consumption, economic indicators, electricity and heat production by energy form and plant type, electricity imports and exports, sectoral energy and electricity consumption, as well as prices for electricity and electricity input fuels for each country and regional aggregate.

Electricity Information is one of a series of annual IEA statistical publications on major energy sources; other reports are *Coal Information*, *Natural Gas Information*, *Oil Information* and *Renewables Information*.

2016

(61 2016 14 1E1) €120

ISBN 978-92-64-25865-5

ISSN 2078-3442



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