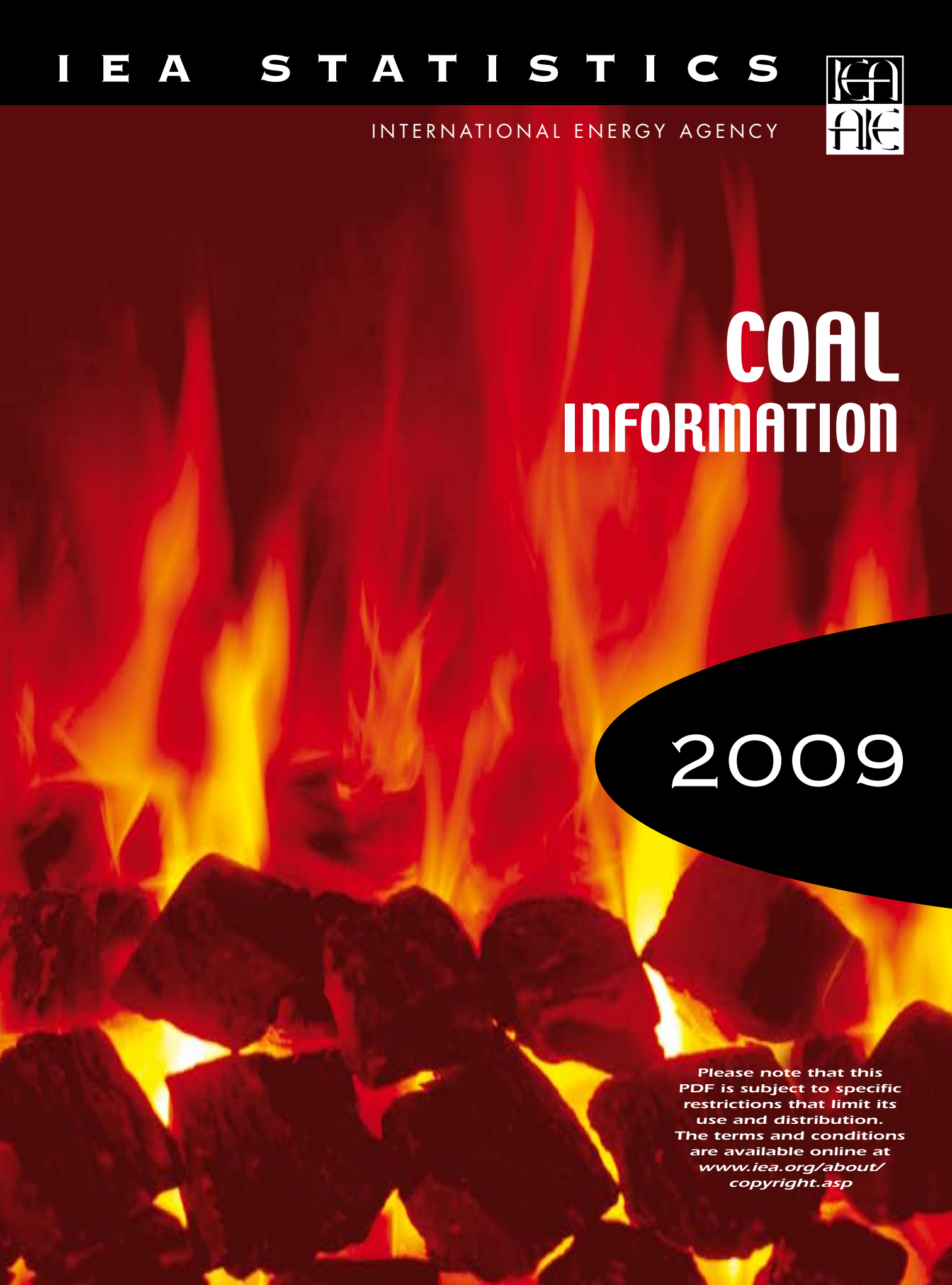
IEA STATISTICS

INTERNATIONAL ENERGY AGENCY

COAL INFORMATION

2009



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COAL
INFORMATION

2009

with 2008 data

INTERNATIONAL ENERGY AGENCY

The International Energy Agency (IEA) is an autonomous body which was established in November 1974 within the framework of the Organisation for Economic Co-operation and Development (OECD) to implement an international energy programme.

It carries out a comprehensive programme of energy co-operation among twenty-eight of the thirty OECD member countries. The basic aims of the IEA are:

- To maintain and improve systems for coping with oil supply disruptions.
- To promote rational energy policies in a global context through co-operative relations with non-member countries, industry and international organisations.
- To operate a permanent information system on international oil markets.
- To provide data on other aspects of international energy markets.
- To improve the world's energy supply and demand structure by developing alternative energy sources and increasing the efficiency of energy use.
- To promote international collaboration on energy technology.
- To assist in the integration of environmental and energy policies, including relating to climate change.

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The European Commission also participates in the work of the IEA.



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The OECD is a unique forum where the governments of thirty democracies work together to address the economic, social and environmental challenges of globalisation. The OECD is also at the forefront of efforts to understand and to help governments respond to new developments and concerns, such as corporate governance, the information economy and the challenges of an ageing population. The Organisation provides a setting where governments can compare policy experiences, seek answers to common problems, identify good practice and work to co-ordinate domestic and international policies.

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Units and technical abbreviations

t	:	metric ton = tonne = 1000 kg
kt	:	thousand tonnes
Mt	:	million tonnes
toe	:	tonne of oil equivalent
Mtoe	:	million tonnes of oil equivalent
tce	:	tonne of coal equivalent (= 0.7 toe)
Mtce	:	million tonnes of coal equivalent
kcal	:	kilocalories (10^3 calories)
MBtu	:	million British thermal units
GWh	:	million kilowatt hours
$	:	US dollars (unless otherwise specified)
CIF	:	cost, insurance and freight
FAS	:	free alongside ship
FOB	:	free on board
GDP	:	Gross Domestic Product
GCV	:	gross calorific value
PCI	:	coals for pulverised injection
TPES	:	Total Primary Energy Supply
EU	:	European Union
FSU	:	Former Union of Soviet Socialist Republics/Soviet Union
OECD	:	Organisation for Economic Co-operation and Development
UN	:	United Nations
0 or 0.0	:	negligible
c	:	confidential
e	:	estimated
..	:	not available
-	:	nil
x	:	not applicable

INTRODUCTION

IEA *Coal Information 2009* is the latest edition of an annual publication intended to provide sound market information on coal to policy and market analysts, and those employed in all sectors of the coal 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 *Coal Information 2009* brings together in one volume the basic statistics compiled by the IEA on coal supply, consumption, trade and prices. It also includes information on coal by-products.

The chapter Principles and Definitions provides important documentation that will assist the reader in correctly using the data in this publication, and to understand the details of statistical methodology and collection practices related to the coal data.

This information is structured as follows:

1. General notes
   - Sources
   - Units and conversions
   - Notes on energy sources and flows
   - Price data
   - Quarterly energy statistics
2. Geographical coverage
3. Country notes
4. Conversion factors and calorific values

Part I of the publication provides a review of world coal market developments in 2008. It covers world coal production and coal reserves, coal consumption by type (hard, steam, coking), hard coal trade and hard coal prices.

This edition of the *Coal Information* will also acquaint the reader with ongoing analytical work at the IEA, and in particular an overview on the current and future utilization of coal as a key energy component of fossil-fuelled electric power generation.

Part II provides the reference tables to Part I review on coal production, consumption, trade and prices.

Part III provides, in tabular and graphic form, a more detailed and comprehensive statistical picture of coal developments in the 30 OECD member countries, by region and individually. In addition, calorific values used for preparing national energy balances, and exchange rates used for the reporting of prices in US dollars are presented.

Part IV provides for selected non-OECD countries summary statistics on hard coal supply and end-use statistics for about 40 countries and regions worldwide. Complete coal balances and coal trade data for selected years are presented on sixteen major non-OECD coal producing and consuming countries.

OECD data are taken from IEA/OECD databases of Energy Statistics that are based on annual and quarterly submissions from OECD Member countries to the Secretariat. The Energy Statistics Division of the IEA Secretariat works closely with national administration to secure consistency in time series and with IEA product definitions and reporting conventions. This effort is supplemented by surveys of energy industry publications, national statistics reports and other material. The finalized data provide the basis for IEA/OECD *Energy Balances of OECD Countries* and *Energy Statistics of OECD Countries*.

The non-OECD data are based upon information collected by the IEA Secretariat, official national submissions to the United Nations in Geneva and New York, national energy publications. The resulting synthesis is published in *Energy Balances of Non-OECD Countries* and *Energy Statistics of Non-OECD Countries*. Users of this publication are directed to the Methodology Section of those publications for more

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

Price data in Part I, II and III are derived from the quarterly publication *Energy Prices and Taxes*. Readers should consult this IEA/OECD publication for detailed information on methodology, data coverage and data sources.

All of Part III tables and selected tables from Part II and IV are available on CD-ROM. Information on ordering CD-ROM and other energy statistics publications is available at the end of this book, and on the IEA website at *http://www.iea.org*.

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

Further information on reporting methodologies is also available on the IEA Web site.

Annual energy data are collected by the Energy Statistics Division (ESD) of the IEA Secretariat, headed by Mr. Jean-Yves Garnier. OECD coal statistics in ESD were the responsibility of Mr. Julian Smith. Mr. Jung Woo Lee contributed to Part I, Part II and Part IV. Mr. Michel Francoeur had overall responsibility for this publication.

Also in the IEA Secretariat, thanks are due to the non-OECD Member countries section headed by Ms. Roberta Quadrelli, and to the OECD Balances section headed by Ms. Karen Tréanton.

The Secretariat would also like to thank the Energy Technology Policy division for the featured article in Part I, adapted from Chapter 7 of the IEA's *Energy Technology Perspectives 2008: Strategies and Scenarios to 2050* with some subsequent updates by Mr Brian Ricketts.

Editorial and secretarial support from Ms. Sharon Burghgraeve is also gratefully acknowledged.

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1. PRINCIPLES AND DEFINITIONS

General notes

Energy data for OECD countries in IEA Secretariat databases begin in 1960 with the following exceptions for coal: for Hungary data begin in 1965, and for the Czech Republic, Korea, Mexico and the Slovak Republic data are available from 1971.

Prior to 1970, German statistics refer to the former Federal Republic of Germany. Data from 1970 include the new federal states of Germany.

The fuels listed as "Solar, wind, tide" include wave and ocean, unless otherwise noted.

Energy flows data reported for 2008 (shown as 2008e) are preliminary estimates based on the submissions received in early 2009 and on quarterly submissions to the IEA from member countries.

Statistics of non-OECD countries presented in this publication are based on available data at time of publishing and may differ from the final non-OECD data to be published in *Energy Statistics of Non-OECD Countries*.

Additional information on methodologies and reporting conventions are included in the notes in *Energy Balances of OECD Countries 2009 Edition* and *Energy Statistics of OECD Countries 2009 Edition.*

Qualifiers

Data marked as *'e'* are the estimates of the IEA secretariat. Data point marked as *'c'* means that data are confidential due to country specific regulations. Data point marked as *'..'* mean that data are not available (either not collected or not submitted by national government). Data point marked as *'x'* means that this data point is not applicable, there is no meaningful explanation of a value there (for example we can not show unit price if there was no trade or if the consumption in the country is forbidden).

Revisions to blast furnace coke and PCI data

Data on coke used and pulverised coal injected in the blast furnace (PCI) are harmonized for all OECD countries in order to ensure that steam and coking coal *consumption* data are consistently presented and that comparisons between countries for *consumption* are meaningful. The main effect of these revisions has been to revise the reported *consumption* of coal in the iron and steel industry.

It should be noted that in IEA statistics of coal *trade* and *consumption*, PCI is not separately specified; rather it is included with steam coal for all countries (except Japan). This classification is based on the fact that most PCI coal is of a steam coal quality and not coking coal quality. For Japan, PCI consumption is reported in this book as a coking coal in order to be consistent with the Japanese practice of including imports of PCI coal with coking coal.

Data sources

Historical data (1960-2007)

The annual historical in Part III of this report are taken from the IEA/OECD databases of energy statistics which are based on annual submissions from all OECD Member countries.

i) IEA/OECD coal statistics

This database of annual statistics for OECD countries covers all primary solid fuels, derived fuels and related manufactured gases. It contains detailed supply/

demand balances for each fuel, as well as information on coal trade by origin and destination. The main data from this system are published annually in the IEA/OECD publication *Coal Information.*

ii) IEA/OECD electricity statistics

This database of annual statistics for OECD countries covers generating capacity and electricity production from main activity producers (formerly known as public) and autoproducers plants. It includes information on electricity production by fuel type and supply/demand balances for electricity and for heat sold to third parties from different types of power and heat plants. The main data from this system are published annually in the IEA/OECD publication *Electricity Information.*

iii) IEA/OECD oil and gas statistics

This database of annual statistics for OECD countries covers crude oil, NGL, refinery feedstocks and natural gas, as well as derived petroleum products. It includes detailed supply/demand balances, trade by origin and destination and stock levels and changes.

The main data from this system are published annually in the IEA/OECD publications *Oil Information* and *Natural Gas Information.*

iv) IEA/OECD renewables statistics

This database of annual statistics for OECD countries covers hydro, solid biomass, geothermal, renewable municipal waste, wind, gas from biomass, solar photovoltaics, solar thermal, tide/wave/ocean, non-renewable municipal waste and industrial waste. It includes detailed supply/demand balances.

The main data from this system are published annually in the IEA/OECD publication *Renewables Information.*

v) IEA/OECD energy statistics

This annual database integrates data from the four IEA/OECD statistical database systems listed above to provide a summary of energy supply and demand for each OECD country. It includes detailed statistics on production, trade and consumption for each source of energy, expressed in original units (e.g. metric tons TJ, GWh).

The main data from this data system are published annually in the IEA/OECD publication *Energy Statistics of OECD Countries.* Detailed country notes referring to historical data can be found in this publication.

vi) IEA/OECD energy balances

Overall energy balances are constructed annually for all OECD countries from the basic energy statistics described above. The overall energy balance data are expressed in a common energy unit of tons of oil equivalent (toe) and presented in a standard matrix format. The balances are published annually in the IEA/OECD publication *Energy Balances of OECD Countries* in which detailed country notes referring to historical data can be found.

vii) IEA/OECD energy prices and taxes

The statistics are discussed separately below. The prices and taxes are published quarterly in IEA/OECD *Energy* Prices *and Taxes*.

viii) Energy statistics of non-OECD countries

The annual historical data for non-OECD countries presented in Part IV of this report are taken from IEA/OECD databases of energy statistics of non-OECD countries. These databases are compiled from data submitted annually to the IEA Secretariat in questionnaires from non-OECD Member countries of the UN ECE, from data provided by other international organisations (UN in New York, OLADE in Quito, APEC in Tokyo and FAO in Rome), from direct communications with national administrations, industry contacts and from published sources.

The main data from this data system are published annually in the IEA/OECD publications *Energy Statistics of Non-OECD Countries* and *Energy Balances of Non-OECD Countries.* Detailed country notes referring to historical data can be found in these publications.

Preliminary 2008 data - 2008e

Data reported for the year 2008 in this publication are preliminary and presented as 2008e. Final 2008 data on solid fuels and manufactured gases will be submitted by OECD Member countries to the Secretariat in annual questionnaires in late 2009. As a result, final data for 2008 and preliminary 2009 data will be published in the 2010 edition of *Coal Information* in July 2010.

Selected coal data for 2008 for some non-OECD countries have been estimated by the Secretariat.

Units and conversions

Conversion (to toe)

All units in this publication are metric units.

Most IEA/OECD publications showing inter-fuel relations and projections present such information in a common energy unit, the ton of oil equivalent (toe). A ton of oil equivalent is defined as 10^7 kcal (41.868 GJ), a convenient measure because it is approximately the net heat content of one ton of average crude oil.

Conversion from native units to tonnes of oil equivalent requires choosing coefficients of equivalence between different forms and sources of energy. Adopting a single equivalence for each major primary energy source in all countries, e.g. 29 307 kJ/kg (7 000 kcal/kg) for hard coal, 41 868 kJ/kg (10 000 kcal/kg) for oil, etc is flawed because it results in distortions due to a wide spread in calorific values between types of coal and individual coal products from country to country and purpose to purpose.

The Secretariat has therefore obtained specific calorific factors supplied by the national administrations for the main categories of each quality of coal and for each flow or use (i.e. production, imports, exports, electricity generation, coke ovens, blast furnaces and industry). The set of particular national calorific values that allow for the conversion of energy sources from original (physical) units to megajoules are presented in the tables on page *xxvii*.

The balances are expressed in terms of net calorific value. The difference between net and gross being the latent heat of vaporisation of the water produced during combustion of the fuel. For coal and oil, net calorific value is usually around 5 per cent less than gross and for most forms of natural and manufactured gas the difference is 9-10 per cent. The use of net calorific value is consistent with the practice of the Statistical Offices of the European Communities and the United Nations.

In this report some data are reported in terms of *tonnes of coal equivalent* (tce) because this unit is more widely used in the international coal industry. A *tonne of coal equivalent* is *defined* as 7 million kilocalories. The relation between *tonne of oil equivalent* (toe) and *tonne of coal equivalent* (tce) is therefore:

1 tce = 0.7 toe

Note that *billion* refers to *thousand million* (10^9). Also, in many cases totals shown in the tables may not be the sum of their components due to independent rounding.

Factors related to specific fuels

Crude oil

A single net calorific value is used by the IEA for each Member Country; these values are shown in the tables in the IEA/OECD publication *Energy Balances of OECD Countries*.

These are average conversion factors, with the same factor used to convert production, imports, and exports as well as all consumption.

Petroleum products

Up until last year, petroleum products were converted using a single set of net calorific values for all countries. Last year the IEA instigated regional conversion factors (in conjunction with Eurostat for the European countries) for the petroleum products.

The net calorific values shown below are used per regional split for all countries and all years.

Regional net calorific values for petroleum products

Petroleum products (kJ/kg)	Europe	North America	Pacific
Refinery gas	49 500	48 100	48 100
Ethane	49 500	49 400	49 400
Liquefied petroleum gases	46 000	47 300	47 700
Motor gasoline	44 000	44 800	44 600
Aviation gasoline	44 000	44 800	44 600
Gasoline type jet fuel	43 000	44 800	44 600
Kerosene type jet fuel	43 000	44 600	44 500
Kerosene	43 000	43 800	42 900
Gas/diesel oil	42 600	42 600	42 600
Residual 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 petroleum products		40 000	

Coal

Separate net calorific values for coal production, imports, exports, inputs to power plants, coal used in coke ovens, coal used in blast furnaces, coal used in industry and coal other uses are submitted annually by national administrations to the Secretariat. Conversion factors for average net calorific value for each OECD member country for 2006 are shown in the table on page *xxvii*.

Gas

In the IEA/OECD publication *Energy Statistics of OECD Countries* all data on gases are expressed in terajoules, on the basis of their gross calorific value.

1 terajoule = 0.00002388 Mtoe.

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

Natural gas	0.9
Gas works gas	0.9
Coke oven gas	0.9
Blast furnace gas	1.0
Oxygen steel furnace gas	1.0

Electricity

Figures for electricity production, trade, and final consumption are calculated using the energy content of the electricity, i.e. at a rate of 1 TWh = 0.086 Mtoe. Hydro-electricity production (excluding pumped storage) and electricity produced by other non-thermal means (wind, tide, photovoltaic, etc.), are accounted for similarly using 1 TWh = 0.086 Mtoe. However, the primary energy equivalent of nuclear electricity is calculated from the gross generation by assuming a 33% efficiency, i.e. 1 TWh = (0.086 ÷ 0.33) Mtoe. In the case of electricity produced from geothermal heat the primary equivalent is calculated assuming an efficiency of 10%, so 1 TWh = (0.086 ÷ 0.1) Mtoe, unless the actual value is known.

Heat

Information on heat is supplied to the Secretariat in terajoules.

Other fuels

The net heat content of other fuels, expressed in terajoules, is also supplied to the Secretariat by administrations. The Secretariat receives information on volumes and other characteristics only for certain aggregates of these fuels.

Notes on energy sources and flows

Coal

Coal is a family name for a variety of solid organic fuels and refers to a whole range of combustible sedimentary rock materials spanning a continuous quality scale. For convenience, this continuous series is often divided into four categories:

- Anthracite
- Bituminous coal
- Sub-bituminous coal
- Lignite/brown coal

In cases where data presented in Mtoe or Mtce in this book and sourced to OECD/IEA *Energy Balances*, the term "Coal" includes all primary coal types (including hard coal and brown coal), peat and coal products (including patent fuel, coke oven coke, gas coke, coal tar, BKB, coke oven gas, blast furnace gas, and oxygen steel furnace gas).

Classification of different types of coal into practical categories for use at an international level is difficult for two reasons:

Divisions between coal categories vary between classification systems, both national and international, based on calorific value, volatile matter content, fixed carbon content, caking and coking properties, or some combination of two or more of these criteria.

Although the relative value of the coals within a particular category depends on the degree of dilution by moisture and ash and contamination by sulphur, chlorine, phosphorous and certain trace elements, these factors do not affect the divisions between categories.

Coal quality can vary and it is not always possible to ensure that available descriptive and analytical information is truly representative of the body of coal to which it refers.

The International Coal Classification of the Economic Commission for Europe (UN/ECE) recognises two broad categories of coal:

i) ***Hard coal*** - Coal of gross calorific value greater than 5 700 kcal/kg (23.9 GJ/t) on an ash-free but moist basis and with a mean random reflectance of vitrinite of at least 0.6.

ii) ***Brown coal*** - Non-agglomerating coal with a gross calorific value less than 5 700 kcal/kg (23.9 GJ/t) containing more than 31 per cent volatile matter on a dry mineral matter free basis.

The IEA has adopted these definitions of hard coal and brown coal in this book and in other publications for presenting statistics relating to coal production, trade and consumption.

It should be stressed that this classification system is based on the inherent qualities of the coal in question and not on the final use of the coal. In this way the classification system attempts to be objective and simple to apply.

Primary coal used in pulverised (or granular) coal injection in blast furnaces is commonly abbreviated to PCI (or GCI) coal. (In this book PCI should be read to include GCI).

The IEA does not have a separate category for PCI as the term defines a particular end-use for coal. In IEA statistics, PCI is included in steam coal (except for Japan where it is included with coking coal).

Data presented in this book may be different from that presented in the national publications of countries because countries may have adopted a different coal classification and reporting system that better suits their particular national needs. As far as possible national coal statistics reported by the IEA in this book and in other publications have been adjusted to be consistent with the IEA definitions noted above.

Furthermore, in order to improve the information base for coal market analysis and projections, these two categories of coal have been further sub-divided in IEA/OECD Coal Statistics from 1978 as follows:

Hard coal

Hard coal is calculated as the sum of *coking coal* and *steam coal.*

Coking coal: defined as hard coal with a quality that allows the production of coke suitable to support a blast furnace charge.

Steam coal: defined as all other hard coal not classified as coking coal. Also included are recovered slurries, middlings and other low-grade coal products not further classified by type. Coal of this quality is also commonly known as thermal coal.

Note that for the countries listed below, steam coal also includes sub-bituminous coal - Australia, Belgium, Finland, France, Iceland, Japan, Korea, Mexico, New Zealand, Portugal and the United States.

Except for these 11 countries, *steam coal* for all other countries in the world is equivalent to the sum of *anthracite* and *other bituminous coal*.

Brown coal/lignite

Brown coal is calculated as the sum of *sub-bituminous coal* and *lignite.*

Sub-bituminous coal: defined as non-agglomerating coals with a gross calorific value between 4 165 kcal/kg (17.4 GJ/t) and 5 700 kcal/kg (23.9 GJ/t).

Lignite: defined as non-agglomerating coal with a gross calorific value less than 4 165 kcal/kg (17.4 GJ/t).

Note that for 11 countries (listed above), *sub-bituminous coal* is included in *steam coal* and not *brown coal.*

Peat is defined as a combustible soft, porous or compressed fossil sedimentary deposit of plant origin with high water content (up to 90 per cent in the raw state), easily cut, of light to dark brown colour.

Coal products

Derived solid fuels are products resulting from the transformation or manufacturing of hard coal, brown coal or other primary solid fuels, sometimes with the addition of other materials.

Patent fuel

Patent fuel is a composition fuel manufactured from coal fines by shaping with the addition of a binding agent such as pitch.

Coke oven coke

Coke oven coke is the solid product obtained from carbonisation of coal, principally coking coal, at high temperature. Semi-coke, the solid product obtained from the carbonisation of coal at low temperature is also included along with coke and semi-coke made from lignite.

Gas coke

A by-product of hard coal used for production of town gas in gas works. Gas coke is used for heating purposes.

Coal tar

Coal tar is the liquid by-product of the destructive distillation of bituminous coal to make coke in the coke oven process. Coal tar can also be the result of low-temperature carbonisation of brown coal. 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.

Brown coal briquettes (BKB)

BKB are composition fuels manufactured from brown coal. The brown coal is crushed, dried and moulded under high pressure into an even shaped briquette without the addition of binders. Peat briquettes, dried brown coke, fines and dust and brown coal breeze are also included.

Coke oven gas

Coke oven gas is obtained as a by-product of solid fuel carbonisation and gasification operations carried out by coke producers and iron and steel plants not connected with gas works and municipal gas plants.

Blast furnace gas

Blast furnace gas is obtained as a by-product in operating blast furnaces; recovered on leaving the furnace and used partly within the plant and partly in other steel industry processes or used in power stations equipped to burn it.

Oxygen steel furnace gas

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

Other fuels

Combustible renewable and wastes

This category includes all primary *combustible* fuels other than coal, peat, oil, natural gas and secondary products derived from them. Products may be solid, liquid or gas and cover biomass and materials of animal origin (not necessarily in solid form).

In IEA/OECD publications, this category is divided into four parts:

- Solid biomass and animal products
- Gases and liquids derived from biomass
- Municipal waste
- Industrial waste

Particular fuels include wood, wood-waste, straw, "black liquor" (a residual from the paper industry), domestic, industrial and municipal waste, landfill gas and sludge gas. Also included are alcohol's and esters produced from biomass.

Oil

Includes crude oil, refinery feedstocks, natural gas liquids, additives, hydrocarbons not of crude oil origin and all petroleum products: LPG, refinery gas, ethane, aviation gasoline, motor gasoline, jet fuel, kerosene, gas/diesel oil, residual fuel oil, naphtha, white spirit, lubricants, bitumen, paraffin waxes, petroleum coke and other petroleum products.

Gas

Includes natural gas (excluding natural gas liquids) and gas works gas (town gas).

Nuclear, hydro, geothermal and solar (includes wind, tide, wave and ocean unless listed separately).

Nuclear includes primary heat equivalent of the electricity produced by a nuclear power plant with an average thermal efficiency of 33%. Hydro includes the energy content of the electricity produced in hydropower plants. Hydro output excludes output from pumped storage plants. Geothermal and solar (including wind, tide, wave and ocean) includes indigenous production of geothermal, solar, wind, tide and wave energy and the use of these energy forms for electricity generation. Unless the actual efficiency of the geothermal process is known, the quantity of geothermal energy entering electricity production at geothermal plants is assuming an average thermal efficiency of 10%. For solar, wind, tide and wave electrical energy, the quantities entering electricity generation are equal to the electrical energy generated.

Heat and electricity

Data collection has been expanded to obtain more disaggregated data on inputs and outputs of 'combined heat and power' and on 'district heating'. Data on heat became available in different years for different countries and thus aggregated country data should be used with caution. Total electricity production includes production from both main activity producers (formerly known as public) and autoproducers. Generally, the split of total electricity production between

main activity producers and autoproducers is available only after 1973. However, for the United States no data are available for autoproducers prior to 1989. For Australia, Japan and New Zealand electricity data refer to fiscal years.

Price data

Energy prices are published quarterly in the IEA/OECD *Energy Prices and Taxes*. IEA data on coal prices are managed in two sub-systems: They vary not only in content but also with respect to the data collection methods.

- Import and export unit values
- End-user prices

Import and export unit values

Import and export unit values are calculated quarterly (March, June, September and December) from national customs statistics import and export volumes and values. The basic data are collected from monthly national trade sources (Japan, United States, Australia and Canada) or provided monthly to the IEA by the Statistical Office of the European Communities (Eurostat).

Values recorded at the import stage are the sum of cost, insurance and freight (CIF) but exclude import duties. Values recorded at the export stage (FOB), exclude seaborne or international transport, but include inland transport costs of the exporting country.

As far as possible the concept of 'general imports and exports' is used. This includes coal imports for re-export with or without processing but excludes transit trade.

The definitions of coal categories and the volume and value units used in each of the above source systems vary considerably. A certain amount of regrouping and unit conversions is necessary once the basic data are compiled.

The rules for regrouping coal categories are consistent with the definitions used in the annual IEA/OECD coal statistics. Prices are compiled for steam coal and for coking coal. Definitions and the correspondence to national and European classifications are discussed in detail in the quarterly IEA publication *Energy Prices and Taxes*. Comments in *Energy Prices and Taxes* on certain data items as well as general background information are developed systematically. Data comments relate mainly to calorific values of specific coal trade flows, and to national coal definitions. Background information covers duties and trade regulations.

End-user prices

End-user prices are collected quarterly from national administrations and other relevant bodies and supplemented with data extracted from national publications. Although a standard approach to reporting the data has been developed, differences in definitions between countries are explained in the notes published in *Energy Prices and Taxes*.

The standard approach to reporting end-use prices can be summarised as follows:

- include transport costs to the consumer;
- show prices actually paid, i.e. net of rebates;
- 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 paid in many European countries by industry (including electric power stations) for all goods and services (including energy). In these cases value added tax is refunded to the customer, usually in the form of a tax credit. Therefore it is not shown as part of prices.

A standard coal quality for international comparisons of end-use prices is not possible given the wide variety of coal qualities in domestic and international coal trade. As a result, only average prices covering different qualities are collected, along with the calorific value of these average qualities. If average prices are not available, prices of a selected coal may be chosen. Accordingly, international comparisons of coal end-use prices may be misleading. Detailed notes concerning these price series are published in *Energy Prices and Taxes*. Also please refer to *Energy Prices and Taxes* for detailed description of price mechanism in each country and country specific notes.

Derived price data

The information collected on prices is converted by the IEA Secretariat into a variety of secondary data in order to facilitate its analysis. Inter-fuel price comparisons for one country are usually made on the basis of prices per heat unit such as a tonne of coal equivalent. (In the end-user price tables, the conversion factor used for converting gross calories to net calories for natural gas is 0.9).

Inter-country price comparisons are made on the basis of a standard currency unit, e.g., US dollars. Prices for regional totals are calculated as weighted average of available price data in the region and therefore prices shown should be considered only indicative.

Quarterly energy statistics

Readers who are interested in very recent data should consult the OECD/IEA publication *Oil, Gas Coal and Electricity Quarterly Statistics* which is published in January, March, June and September each year.

This book provides rapid, accurate and detailed statistics on quarterly production, supply and demand and trade of the major energy forms mainly in, but not limited to, the OECD area.

The information contained in this publication consists of:

Oil

- Production of crude oil and NGL for the major producers in the world.
- Refinery balances for crude oil, NGL, refinery feedstocks, and total (including inputs of origin other than crude oil and NGL);
- Complete product balances of production, trade, refinery intake and output, final consumption, stock levels and changes;
- Crude, NGL and feedstock imports from 47 origins and exports to 24 destinations;
- Trade data for main product groups, LPG and naphtha; imports from 43 origins and exports to 30 destinations;
- Imports from 26 origins and exports to 15 destinations;
- Trade data for main product groups, LPG and naphta; imports from 43 origins and exports to 30 destinations;

Natural gas

- Balances of supply and consumption of OECD Member Countries.

Coal

- World hard coal and brown coal production;
- World steam coal and coking coal trade;
- Coking coal and steam coal imports and exports for major OECD countries;

Electricity

- Electricity production, (separately from combustible fuel, nuclear, hydro and other sources) imports, exports and (apparent) consumption in each of the 30 OECD Member countries.

2. GEOGRAPHICAL COVERAGE

Australia excludes the overseas territories.

Denmark excludes the Danish Faroes and Greenland.

France includes Monaco but excludes the French overseas territories Guadeloupe, Martinique, Guyane, Reunion, St.-Pierre and Miquelon, New Caledonia and French Polynesia.

Italy includes San Marino and the Vatican.

Japan includes Okinawa.

The Netherlands excludes Suriname and the Netherlands Antilles.

Portugal includes the Açores and Madeira.

Spain includes the Canary Islands.

Switzerland does not include Liechtenstein.

United States includes 50 States and the District of Columbia.

OECD Total comprises Australia, Austria, Belgium, Canada, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Japan, Korea, Luxembourg, Mexico, Netherlands, New Zealand, Norway, Poland, Portugal, Slovak Republic, Spain, Sweden, Switzerland, Turkey, the United Kingdom and the United States.

With the exception of Iceland, Mexico, all 30 OECD member countries are also member countries of the **IEA**.

The following countries are included in the regional aggregates. OECD Total is the sum of the three regional aggregates.

OECD North America comprises Canada, *Mexico* and the United States.

OECD Europe comprises Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, *Iceland*, Ireland, Italy, Luxembourg, Netherlands, Norway, Poland, Portugal, Slovak Republic, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

OECD Pacific comprises Australia, Japan, Korea and New Zealand.

IEA regional totals include only IEA Member countries and therefore exclude non-IEA Members, shown in italics above.

Please note that all OECD Pacific countries are also members of IEA and therefore we refer to it as OECD/IEA Pacific.

Africa includes Algeria, Angola, Benin, Botswana, Cameroon, Congo, Democratic Republic of Congo, Côte d'Ivoire, Egypt, Eritrea, Ethiopia, Gabon, Ghana, Kenya, Libya, Morocco, Mozambique, Namibia, Nigeria, Senegal, South Africa, Sudan, United Republic of Tanzania, Togo, Tunisia, Zambia, Zimbabwe and Other Africa.

Latin America includes Argentina, Bolivia, Brazil, Chile, Colombia, Costa Rica, Cuba, Dominican Republic, Ecuador, El Salvador, Guatemala, Haiti, Honduras, Jamaica, Netherlands Antilles, Nicaragua, Panama, Paraguay, Peru, Trinidad and Tobago, Uruguay, Venezuela and Other Latin America.

Asia includes Bangladesh, Brunei Darussalam, Cambodia, Chinese Taipei, India, Indonesia, DPR of Korea, Malaysia, Mongolia, Myanmar, Nepal, Pakistan, Philippines, Singapore, Sri Lanka, Thailand, Vietnam and Other Asia.

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

Non-OECD Europe includes Albania, Bosnia and Herzegovina, Bulgaria, Croatia, Cyprus[1], Gibraltar, Former Yugoslav Republic of Macedonia (FYROM), Malta, Montenegro, Romania, Serbia[2] and Slovenia.

Former USSR[3] includes Armenia, Azerbaijan, Belarus, Estonia, Georgia, Kazakhstan, Kyrgyzstan, Latvia, Lithuania, Republic of Moldova, Russia, Tajikistan, Turkmenistan, Ukraine, and Uzbekistan.

Middle East includes Bahrain, Islamic Republic of Iran, Iraq, Israel, Jordan, Kuwait, Lebanon, Oman, Qatar, Saudi Arabia, Syria, United Arab Emirates and Yemen.

1. Note by Turkey:
With respect to the Cyprus question, Turkey reserves its position as stated in its declaration of 1 May 2004. The information in the report under the heading 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).
Note by all the European Union Member States of the OECD and the European Commission:
The Republic of Cyprus is recognised by all members of the United Nations with the exception of Turkey. The information in this report relates to the area under the effective control of the Government of the Republic of Cyprus.

2. Data for Serbia include Montenegro until 2004 and Kosovo until 1999.

3. Data is shown only under Former USSR until 1989. After 1990, data is shown by country only.

3. COUNTRY NOTES

In many cases data submitted by Member countries to the Secretariat do not conform to the standard reporting methodology or have other particular characteristics. Information set out below will assist readers to interpret data for particular countries and aid in the comparison of data among countries.

Australia

All data refer to the fiscal year, (e.g. July 2006 to June 2007 for 2007). For the 2002 data, the Australian Administration has started to use a new survey methodology which has caused shifts in the structure of industry consumption. The Australian Administration is planning to revise the historical series.

Data on blast furnace gas for electricity production by autoproducers begins in 1986. Consumption in wood and wood products is included in paper, pulp and print from 2001 onwards. The drop in BKB production in 2004 was due to a fire in the main production plant. Domestic production and consumption of anthracite is reported as bituminous coal. Usage of PCI in blast furnaces is occurring, but is currently not quantified.

Sub-bituminous coal is included in steam coal.

Austria

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

Other bituminous coal includes hard coal briquettes. "Trockenkohle" is included with BKB because of its high calorific value. Since 1994, gas works gas is reported with natural gas because it is distributed in the same network. The amount of gas works gas is negligible and it is mostly consumed by households. The last lignite mine closed in the second quarter of 20042004 and lignite usage for power generation ceased in 2006.

Sub-bituminous coal is included in brown coal.

Belgium

Sub-bituminous coal data refer to recovered coal products. Production of other bituminous coal ceased on 31 August 1992. Production includes the recuperation of coal from coal dumps. The use of coke oven gas in the chemical and petrochemical sector ceased in 1996. The decrease of bituminous coal and coke oven coke in the iron and steel sector in 2002 is due to the closure of several plants.

Sub-bituminous coal is included in steam coal.

Canada

Due to the unavailability of data, non-energy use of coke oven coke and hard coal is included with final consumption sectors prior to 1978 and 1980 respectively. Before 1978, lignite inputs to main activity producer heat plants are included in final consumption. Starting in 1979, these inputs are included in main activity producer electricity plants. Due to a Canadian confidentiality law, starting in 2002, some of the disaggregation of primary coal has been estimated by IEA Secretariat.

Sub-bituminous coal is included in brown coal.

Czech Republic

Data are available starting in 1971.

End-use consumption data were submitted by the Czech Administration starting with 1996 data. Due to economic restructuring in the end-use consumption sectors in the late 1990s (big state enterprises subdividing and/or privatising and the utilisation of new technologies by businesses), there might be breaks in time series in these sectors. Prior to 1993, consumption was estimated by the Secretariat. Data for 1990 to 1995 were estimated based on the Czech publication *Energy Economy Year Book*. In 1995, town gas production ceased. Beginning in 1996, the Czech Administration reported gas works gas in autoproducer CHP. In 1997, coke oven gas consumption in chemical and petrochemical stopped. Also in 1997, other bituminous coal started being extracted at a deeper level, which increased the calorific value of this coal. Revisions by the Czech Administration have resulted in some breaks in series between 2001 and 2002. Production from other sources of sub-bituminous coal in 2004 are coal slurries. In the 2008 edition, the classification was changed between other bituminous coal, sub-bituminous coal and lignite for 1990 onwards.

Sub-bituminous coal is included in brown coal.

Denmark

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

A large increase of steam coal imports in 2003 is related to a draught in Scandinavia. Thermal power plants were operated more intensively to replace hydro-generated electricity that is consumed in the country. Additionally, more coal-generated electricity was exported to other countries in the region.

Sub-bituminous coal is included in brown coal.

Finland

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

A large increase of steam coal imports in 2003 is related to a draught in Scandinavia. Thermal power plants were operated more intensively to replace hydro-generated electricity that is consumed in the country. Additionally, more coal-generated electricity was exported to other countries in the region. Likewise, peat production is highly dependant upon favourable weather conditions and pricing of other fuels.

The first coking plant started operation in 1987, hence imports of coking coal and production of coke oven coke and coke oven gas started in that year. The increase of other bituminous coal inputs into main activity producer electricity plants from 1993 to 1994 was due to coal replacing imported electricity and hydro power. Production of gas works gas ceased in April 1994.

Sub-bituminous coal is included in steam coal.

France

Prior to 1985, consumption of colliery gas is included with the use of coke oven gas by autoproducers. Final consumption in industry is estimated by the Secretariat from 1986 to 2001 for some products. For 1989 to 1998, the Secretariat has estimated industry consumption based on *Consommations d'Energie dans l'Industrie*, SESSI. BKB data for 1994 are Secretariat estimates.

Sub-bituminous coal is included in steam coal.

Germany

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

Figures for quantities used for non-energy purposes became available from 1970. Prior to this, non-energy uses are included with consumption in the respective final consumption sectors. Due to reclassification of several sectors by the German Administration, breaks in series may occur between 1990 and 1992; this particularly affects BKB, lignite and coke oven coke. BKB inputs to gas works plants stopped in 1997. Breaks in series may occur between 1998 and 1999 for coke oven gas and blast furnace gas. Up to 2003, other bituminous coal includes anthracite. Breaks in the series for coke oven gas from 2007 are due to a change in statistical source. Consumption of non renewable municipal waste and other solid biomass as a reductant occurs in German blast furnaces, but is not currently quantified. Likewise, coal tar is a by-product of coke ovens, but not currently reported.

Sub-bituminous coal is included in brown coal.

Greece

Electricity production using hard coal ceased in 1989. A new main activity producer electricity plant using imported bituminous coal was brought on-line in 1991. Production of gas works gas ceased in 1997. Lignite is used in main activity producer CHP plants since 1997.

Sub-bituminous coal is included in brown coal.

Hungary

Data are available from 1965.

Due to sale of an autoproducer power plant, breaks in series occur for coke oven gas and blast furnace gas between 1997 and 1998. From 1999, the production of sub-bituminous coal has been included with lignite/ brown coal due to the low quality of the coal. The use of this domestic coal in main activity producer electricity and CHP plants has also been reclassified to lignite/brown coal. The time series for coke oven coke transformed into blast furnace gas and consumed for energy purposes in the iron and steel industry have been adjusted by the IEA using standard modeling.

Sub-bituminous coal is included in brown coal.

Iceland

Prior to 1970, final consumption includes inputs and outputs to heat production. The industrial classifications used by the Icelandic Administration were changed in 1987. Final consumption increased in 2000 due to a new iron and steel plant coming on-line.

Sub-bituminous coal is included in steam coal.

Ireland

Production data for peat briquettes (reported as BKB) are available from 1975. Low production of peat in 1985 was due to a poor "harvest". The production of gas works gas ceased in 1987 due to fuel switching to natural gas. Other bituminous coal inputs to main activity producer electricity plants increased from 1986 due to three new generating units at Moneypoint coming on-line. A reclassification causes a break in the series for own use of peat from 1989 to 1990. Patent fuel data from 2007 is confidential.

Sub-bituminous coal is included in brown coal.

Italy

From 2000 onwards, the Italian Administration defines electricity production from autoproducers as including generation from producers consuming more than 70% of their own production. However for the 2000 to 2002 period, all electricity production from autoproducers is reported with main activity producers.

From 1986 onwards, figures from lignite are given using the same methodology as in the *Bilancio Energetico Nazionale*. In 1991, all industrial activities were reclassified on the basis of ISTAT/NACE 91. This has implied some transfers of activities which may result in some anomalies between 1991 and earlier years. Due to a change in the survey system, breaks in series may occur between 1997 and 1998 for final consumption. From 2000 onwards, the Italian Administration defines electricity production from autoproducers as including generation from producers consuming more than 70% of their own production.

Sub-bituminous coal is included in brown coal.

Japan

For four consecutive years, the IEA received revisions from the Japanese Administration. The first set of revisions received in 2004 increased the 1990 supply by 5% for coal, 2% for natural gas and 0.7% for oil compared to the previous data. This led to an increase of 2.5% in 1990 CO_2 emissions calculated using the reference approach while the sectoral approach remained fairly constant. For the 2006 edition, the IEA received revisions to the coal and oil data which have had a significant impact on both the energy data and the CO_2 emissions. The most significant revisions occurred for coke oven coke, naphtha, blast furnace gas and petroleum coke. These revisions affected consumption rather than supply in the years concerned. As a result, the sectoral approach CO_2 emissions have increased for all the years, however at different rates. For example, the sectoral approach CO_2 emissions for 1990 were 4.6% higher than those calculated for the 2005 edition while the 2003 emissions were 1.1% higher than those of the previous edition. Due to the impact these successive revisions have had on the final energy balance as well as on CO_2 emissions, the

IEA was in close contact with the Japanese Administration to better understand the reasons behind these changes. These changes were mainly due to the Government of Japan's efforts to improve the input-output balances in the production of oil products and coal products in response to inquiries from the UNFCCC Secretariat. To cope with this issue, the Japanese Administration established a working group in March 2004. The working group completed its work in April 2006. Many of its conclusions were incorporated in the 2006 edition, but some further revisions to the time series (especially in the industry and other sectors) were submitted for the 2007 edition.

Starting in 1990, data are reported on a fiscal year basis (e.g. April 2006 to March 2007 for 2006).

From 1982, residential use of coke oven coke is included in commercial/public services sector. Oxygen steel furnace gas data are available from 1982. From 1998, inputs of coke oven gas, blast furnace gas and oxygen steel furnace gas into autoproducer electricity plants include the amount used to produce electricity with TRT technology (top pressure recovery turbines) which was previously included in the industry sector. Starting in 1990, the inputs of coke oven coke to blast furnaces as well as the final consumption of coke oven coke in the iron and steel sector have been estimated by the IEA Secretariat.

Coal injected in blast furnaces (PCI) is classified as coking coal in order to be consistent with Japanese trade statistics. With the 2008 edition, Japan has reclassified part of the coal inputs to coke ovens as inputs to blast furnaces.

In the 2009 edition, the net calorific values for coal for 1990 onwards have been recalculated by the IEA secretariat based upon gross values submitted by Japan and default values used by the IEA. Statistical differences in hard coal since 2004 are primarily due to deliberate stock build by final consumers.

Sub-bituminous coal is included in steam coal.

Korea

Data are available from 1971.

Data for 2002 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 for coal and coal products from 1971 to 2001 are based on information provided by the Korean Administration, as well as information from the *Yearbook of Energy Statistics 2002*, the *Yearbook of Coal Statistics 2001* (both from the Ministry of Commerce, Industry and Energy), and *Statistics of Electric Power in Korea 2001* (from the Korea Electric Power Corporation). Patent fuel series have been estimated by the Secretariat up to 2001. Data on sub-bituminous coal were estimated by the Secretariat based on statistics of the exporting countries. Coal tar production exists prior to 2007, however data is yet to be finalised. Consumption of imported coke oven coke is reported under non-specified industry. Coke oven gas and blast furnace gas used for energy purposes in coke ovens prior to 2002 and in blast furnaces prior to 2007 are reported in the iron and steel industry.

Sub-bituminous coal is included in steam coal.

Luxembourg

Steel production from blast furnaces ceased at the end of 1997 and as a consequence, Luxembourg no longer uses coke oven coke and blast furnace gas.

Sub-bituminous coal is included in steam coal.

Mexico

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

Data for coke oven gas and blast furnace gas are reported for the first time in 1999.

Sub-bituminous coal is included in steam coal.

Netherlands

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

For 1984 to 1986, production *from other sources* of other bituminous coal represents a stock of "smalls" washed for re-use. Prior to 1989, non-energy use is included with industry consumption. Paper, pulp and print includes furniture. The breakdown of anthracite, coking coal and other bituminous coal has been provided on a preliminary basis and data will be revised.

Coal exports consist of re-exported volumes.

Sub-bituminous coal is included in brown coal.

New Zealand

Where data refer to the fiscal year, April 1994 to March 1995 is shown as 1994.

A reorganisation of government departments during 1987 leading to cessation of certain data series has resulted in several breaks in series between 1987 and 1988.

Production of gas works gas ceased in 1988. Peat, although produced in New Zealand, is not used as a fuel. It is used for agricultural purposes only. In final consumption, non-ferrous metals is included with iron and steel; wood and wood products is included with pulp, paper and print; mining and quarrying is included in agriculture and construction is included with commercial/public services. Sub-bituminous coal inputs into blast furnaces refers to coal that is merged with iron sand to form the inputs for the multi-hearth-furnace (Glenbrook Steel site). Import origins and export destinations are derived from partner reports.

Sub-bituminous coal is included in steam coal.

Norway

Production of coking coal, coke oven coke and coke oven gas ceased in the late 1980s. Other bituminous coal includes lignite. The decrease of bituminous coal production in 2005 is due to a fire in one of the coal mines, that entailed a break in the production for a large part of the year.

Sub-bituminous coal is included in brown coal.

Poland

Sub-bituminous coal is included in brown coal.

Portugal

Since 1998, sub-bituminous coal is not used. As of 2000, gas works gas in the commercial/public services and residential sectors is gradually being replaced by natural gas. The iron and steel industry closed in the first quarter of 2001, leading to decreases in supply and consumption of coking coal, coke oven coke, coke oven gas and blast furnace gas.

Sub-bituminous coal is included in steam coal.

Slovak Republic

Data are available starting in 1971.

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

Sub-bituminous coal is included in brown coal.

Spain

Other bituminous coal use in the iron and steel industry ceased in 1991 and started again in 1996. Consumption of BKB also ended in 1991. Consumption of blast furnace gas in the chemical industry stopped in 1993 while chemical industry use of coke oven gas ceased between 1993 and 2000. Natural gas inputs into gas works gas stopped in 1999. Lignite mining was halted indefinitely in 2008.

Sub-bituminous coal is included in brown coal.

Sweden

Other bituminous coal production is coal recovered during the quarrying of clay. Autoproducer inputs to waste heat production that is sold are reported in the respective end-use sectors and not in the transformation sector.

Sub-bituminous coal is included in brown coal.

Switzerland

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

The breakdown of the industry sector for 2000 was estimated by the Secretariat for gas, oil, electricity and heat. From 1985, industrial consumption of gas works gas is reported in non-specified industry to prevent the disclosure of commercially confidential data.

Sub-bituminous coal is included in brown coal.

Turkey

Production of gas works gas declined in 1989 due to plant closures; the last plant closed in 1994. Use of gas coke and gas works gas ceased in 1994. Due to government regulations in the industry and residential sectors in particular, there has been a shift from the use of domestically produced coal to imported coal and natural gas. Privatisation of state owned coke ovens in recent years results in incomplete information on coke oven gas distribution.

Sub-bituminous coal is included in brown coal.

United Kingdom

Consumption shown for the commercial/public services sector includes consumption of some of the non-specified sector. Prior to 1994, the consumption of substitute natural gas is included with natural gas while its production is included with gas works gas. Due to reclassifications, there are breaks in the series between 1998 and 1999 and between 2000 and 2001 for blast furnace gas.

Sub-bituminous coal is included in brown coal.

United States

United States includes the 50 states and the District of Columbia. Imports and exports also include all U.S. territories (i.e. Puerto Rico, Guam, the Virgin Islands and the Hawaiian Trade Zone).

Due to problems in reporting, there are numerous breaks in series for the U.S. data, particularly in 1992, 1999, 2001 and 2002. Care should be taken when evaluating consumption by sector since inputs of fuel to autoproducers are included in final consumption for some years.

Gas works gas production and consumption is included with natural gas starting in 1974. For the period 2002 to 2007, the United States reported "synfuel" production as patent fuel. Prior to 2002, the consumption of this fuel was reported with other bituminous coal. Since the Energy Information Administration and the US Department of Commerce do not collect separate data on patent fuel exports by country, total exports of patent fuel are included in the exports of other bituminous coal. This practice ceased in 2007.

Sub-bituminous coal is included in steam coal.

4. CONVERSION FACTORS AND CALORIFIC VALUES

General conversion factors for energy

To:	**TJ**	**Gcal**	**Mtoe**	**MBtu**	**GWh**
From:	multiply by:				
TJ	1	238.8	2.388×10^{-5}	947.8	0.2778
Gcal	4.1868×10^{-3}	1	10^{-7}	3.968	1.163×10^{-3}
Mtoe	4.1868×10^{4}	10^{7}	1	3.968×10^{7}	11630
MBtu	1.0551×10^{-3}	0.252	2.52×10^{-8}	1	2.931×10^{-4}
GWh	3.6	860	8.6×10^{-5}	3412	1

Conversion factors for mass

To:	**kg**	**t**	**lt**	**st**	**lb**
From:	multiply by:				
kilogramme (kg)	1	0.001	9.84×10^{-4}	1.102×10^{-3}	2.2046
tonne (t)	1000	1	0.984	1.1023	2204.6
long ton (lt)	1016	1.016	1	1.120	2240.0
short ton (st)	907.2	0.9072	0.893	1	2000.0
pound (lb)	0.454	4.54×10^{-4}	4.46×10^{-4}	5.0×10^{-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	0.8327	0.02381	0.1337	3.785	0.0038
U.K. gallon (gal)	1.201	1	0.02859	0.1605	4.546	0.0045
Barrel (bbl)	42.0	34.97	1	5.615	159.0	0.159
Cubic foot (ft^3)	7.48	6.229	0.1781	1	28.3	0.0283
Litre (l)	0.2642	0.220	0.0063	0.0353	1	0.001
Cubic metre (m^3)	264.2	220.0	6.289	35.3147	1000.0	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)

2007 COUNTRY SPECIFIC AVERAGE NET CALORIFIC VALUES [MJ/t]

	Anthracite	Coking coal	Other bituminous coal	Sub-bituminous coal	Lignite	Peat	Patent fuels	Coke oven coke	Coal tar	BKB
Australia	-	29,134	25,700	18,478	10,470	-	-	25,650	-	20,995
Austria	32,432	29,073	27,935	22,200	8,978	8,800	31,003	29,000	41,800	19,303
Belgium	25,184	29,308	25,781	-	8,370	-	29,308	27,696	-	20,097
Canada	27,700	27,049	25,514	17,799	14,464	-	-	27,389	-	-
Czech Republic	30,000	29,290	-	24,880	12,834	-	-	27,800	37,236	23,431
Denmark	-	-	24,487	-	-	-	-	29,300	-	-
Finland	-	29,300	25,200	-	-	10,200	-	29,300	37,000	-
France	-	30,500	26,000	-	17,000	-	32,000	28,000	-	-
Germany	29,054	29,000	25,630	-	9,022	-	31,400	28,650	-	21,324
Greece	-	-	25,743	-	6,545	-	-	29,507	-	14,201
Hungary	-	31,430	25,717	16,578	7,534	-	-	29,485	38,000	20,000
Iceland	-	28,050	28,050	-	-	-	-	26,670	-	-
Ireland	27,842	-	27,838	-	19,820	9,714	-	-	-	18,548
Italy	-	30,984	26,587	-	10,468	-	-	29,000	-	-
Japan	25,619	27,714	24,476	-	-	-	-	27,930	35,482	-
Korea	23,483	28,261	24,911	20,934	-	-	20,049	27,214	37,000	-
Luxembourg	29,300	-	29,300	-	-	-	-	-	-	20,100
Mexico	-	23,483	23,483	19,405	14,100	-	-	26,521	-	-
Netherlands	29,300	28,671	24,736	-	20,000	-	-	28,500	41,900	-
New Zealand	-	-	27,590	20,980	14,280	-	-	-	-	-
Norway	-	-	28,100	-	-	-	-	28,500	-	-
Poland	-	29,467	22,589	-	8,684	-	-	28,752	36,604	17,471
Portugal	27,654	-	25,451	-	-	-	-	28,050	-	-
Slovak Republic	27,131	27,930	25,146	-	11,560	-	28,000	28,740	-	23,000
Spain	19,322	30,020	23,280	11,756	6,780	-	-	30,290	-	-
Sweden	-	30,000	27,400	-	-	12,500	-	28,080	-	-
Switzerland	28,100	-	28,100	-	20,100	-	-	28,100	-	-
Turkey	-	29,523	24,189	18,000	7,765	-	-	29,302	-	18,736
United Kingdom	-	28,813	24,965	-	-	-	30,875	28,310	-	-
United States	27,861	29,107	26,536	19,433	14,195	-	27,348	27,469	-	-

Source: IEA/OECD Coal Statistics

Coal classification

The IEA collects statistics on coal production, trade and consumption according to a technically precise classification based on the quality of coal as follows:

- Coking coal is coal with a quality that allows the production of coke suitable to support a blast furnace charge;
- Other bituminous coal and anthracite are non-agglomerating coals with a gross calorific value greater than 23 865 kJ/kg (5 700 kcal/kg) on an ash-free but moist basis;
- Sub-bituminous coal is a non-agglomerating coal with a gross calorific value between 23 865 kJ/kg (5 700 kcal/kg) and 17 435 kJ/kg (4 165 kcal/kg) containing more than 31% volatile matter on a dry mineral matter-free basis;
- Lignite/brown coal is a non-agglomerating coal with a gross calorific value less than 17 435 kJ/kg (4 165 kcal/kg) and greater than 31% volatile matter on a dry mineral matter-free basis. Oil shale combusted directly is reported in this category.

However, when publishing these data, the IEA adopts a simplified classification of hard coal and brown coal. The correspondence is as follows:

- Hard coal: this is the sum of coking coal and steam coal;
- Coking coal is reported in the category coking coal;
- Other bituminous coal and anthracite are reported in the category steam coal;
- Sub-bituminous coal is reported in the category Brown Coal except for: Australia, Belgium, Finland, France, Iceland, Japan, Mexico, New Zealand, Portugal, South Korea (Republic of Korea) and the United States where it is included in steam coal (because of its relatively high calorific value);
- Lignite is reported in the category brown coal.

The term **Total Coal** refers to the sum of hard coal and brown coal after conversion to a common energy unit (tonne of coal equivalent - tce). The conversion is done by multiplying the calorific value of the coal in question (the conversion factors are submitted by national administrations to the IEA Secretariat each year) by the total volume of hard and brown coal used, measured in physical units, i.e. in tonnes. One tce has an energy content of 29.3 gigajoules (GJ) or 7 000 kcal and corresponds to 0.7 tonnes of oil equivalent (toe).

Defining coal consumption

Energy statistics are compiled and presented to take account of the complexity in the way fuels are used and to avoid double counting. Misunderstandings can arise when statistics on coal consumption are used because of the particular terminology used by energy statisticians.

Coal is used in four possible ways:

- As a *primary input* to produce electricity or a secondary/tertiary fuel that is used elsewhere or sold - this is referred to as use in the t*ransformation sector;*
  e.g. coking coal used to produce coke in a coke oven, steam coal used to *produce* electricity
- As a *fuel* used to *support* (but not used in) a transformation process - this is referred to as use in the e*nergy sector;*
  e.g. coke oven gas used to *heat* the coke oven, steam coal used to *operate* the power plant
- As a *fuel* consumed in manufacturing industry, mining and construction, in transport, in agriculture, in commercial and public services and in households - this is referred to as use in the *final consumption sectors;*
  e.g. steam coal used to produce heat in cement kilns, steam coal used to produce industrial process steam
- As a *raw material* - this is referred to as *non-energy use.*
  e.g. coal used to produce carbon electrodes for the aluminium industry

In the wider community, the term '**consumption**' is commonly understood to include all four of the above end-uses. However, in this book the term "consumption" refers only to use in the *final consumption sectors* (i.e. in the third dot point above).

PART I

WORLD COAL MARKET REVIEW

1. OVERVIEW

In 2008, total global coal production increased by 6.2%, continuing the growth of the last 10 years where 2008 production was 48% higher than 1998 levels, driven almost entirely by growth in hard coal production which was 59% higher than in 1998.

Hard coal production increased by 7.4% (or 403.4 Mt) compared to 2007, to 5 845.3 Mt. Brown coal production decreased by 0.4% (or 4.3 Mt) to 951.4 Mt, a little above its 1996 level and the highest since 1993.

The analysis of proved coal reserve data indicates that at the current level of production, there is approximately 146 years of coal available for supply.

Total global coal consumption increased by 6.8% or 309.7 Mtce in 2008, which follows a six year trend of annual increases averaging 6.3%. The OECD region consumption share has slipped to 33.2% of the world total in 2008. This is mainly due to the rapid expansion and development in non-OECD countries, but also that OECD coal consumption is estimated to be 1 615.4 Mtce in 2008, or a decrease of 1.8% or 29.1 Mtce from the 2007 level of 1 644.5 Mtce. This decrease offsets the increase which took place in 2007. Furthermore, it is the first decrease since 2001 and only the third since 1994. It also means that OECD coal consumption in 2008 increased 6.3% over 1990 levels.

Among the types of coal, world hard coal consumption increased by 7.4%, steam coal consumption was up 329.3 Mt (7.0%), and coking coal consumption was up 69.7 Mt (9.4%).

Global hard coal exports continued to grow in 2008, albeit at a much smaller pace than the previous five years. Hard coal exports were up 14.9 Mt from 922.9 Mt to 937.8 Mt. Steam coal exports decreased by 8.2 Mt or 1.2% in 2008 to dip to 676.0 Mt, while coking coal exports continued to show robustness with an increase of 9.7% from 238.8 Mt to 261.8 Mt.

Because of differences in coal classification by trading partners, as well as difficulties in assigning trade to specific destinations, and because trade is not instantaneous, imports volume does not exactly reflect exports volume. Indeed, estimated imports show a smaller increase in trade than do exports. Total hard coal imports volume rose from 908.1 Mt to 922.6 Mt—an increase of 1.6% or 14.5 Mt. Steam coal imports remained at 2007 levels, decreasing by 1.1 Mt to 700.1 Mt, while coking coal imports increased by 7.5% from 206.9 Mt to 222.5 Mt.

The commodities boom in the early part of 2008 had a massive effect on coal prices with average CIF import steam coal prices increasing by 77% in Japan and 68% in the European Union. CIF import coking coal prices increased by 108% in Japan and 57% in the EU. Some of the numerous factors influencing price included: tight supply during a period of record annual consumption, flooding of mines in Australia, electricity shortages in South Africa and a temporary halt to Chinese exports to ensure domestic needs. Steel and other commodities tied up the world's bulk carrier fleet and shipping costs rose to a historic high in May 2008, only to collapse to around 5% of this value when the global downturn started to impact.

Regarding CO_2 emissions, in 2006 coal remains the largest source of world CO_2 emissions 918 Mt ahead of oil, and over twice that of natural gas. Coal-related emissions again increased more rapidly in the non-OECD countries, and were again led by high growth in China whose coal consumption reached 39.6% of global consumption in 2006. This trend continued in 2007 rising to 40.4% and compares starkly to a figure of 26.7% in 2001.

In the OECD, coal-related emissions were still following long term trends and increasingly due to power generation as opposed to industries and other sectors whose shares have declined sharply in the 35 years since the IEA's inception. In 2007, the share of coal consumed for electricity generation (in raw tonnage) reached 86.6% in the OECD, compared to 74.8% elsewhere.

2. PRODUCTION

Developments in world coal supply in 2007 and 2008

World coal production and use is broadly grouped by the two main coal types – hard coal and brown coal. Hard coal with a higher thermal value (varying from coal to coal and depending on the degree of preparation) is economically suited to international trade, with characteristics making some coals suitable for metallurgical (coking) uses. Brown coal (lignite) has a much lower thermal value (the amount depending on the coal type and its water content) and is suitable largely for power generation locally or to a lesser extent for briquette manufacture.

World hard coal production continued to show strong growth in 2008 despite the 4th quarter slowdown due to the global economic downturn. In fact it showed stronger growth than the previous three years in a period encompassing seven years of record growth. Total world hard coal production (including recovered slurries) reached 5 845.3 Mt, a 7.4% increase of 403.4 Mt over the 2007 level of 5 441.9 Mt. It was again driven by growth in production from the non-OECD countries with a 9.9% growth in 2008, making the last four years of annual growth average 8.2% per annum. Among the major producing non-OECD countries, production increased in China, India, Russia, Indonesia, Kazakhstan, Colombia, Ukraine and Korea DPR, but declined marginally in South Africa and Vietnam.

During the last five years, the OECD's hard coal production steadily increased and reached in 2008 a new production peak of 1 525.2 Mt with the 14.9 Mt increase surpassed by that of the United States alone which had a 24.9 Mt increase. Australia, Canada and Turkey also had slight increases, but hard coal production fell in every other OECD producer including Poland and Germany – both for the 5th year in sucession.

Brown coal production decreased by 0.4% (or 4.3 Mt) in 2008; which brings it back approximately to its 1996 level. OECD's brown coal production decreased slightly from 626.1 Mt to 617.3 Mt (or 1.4%), while non-OECD's production grew from 330 Mt to 334 Mt. Of note, Spain's production fell from 9.3 Mt to 2.9 Mt and is now entirely sub-bituminous coal as lignite mining ceased. Also, Germany's brown coal production decreased by 2.8% or 5.1 Mt to the lowest in eight years, while Russia's brown coal production increased 4.9% to 76 Mt.

Overall, world coal production (hard and brown coal) grew by 6.2% (or 399.1 Mt) in 2008 from 6 397.6 Mt to 6 796.7 Mt, making six years of strong growth averaging 6.1%. Growth for the years 2003 to 2008 inclusive has been 2017.1 Mt, or a 42.2% increase over 2002 levels.

World production for hard and brown coal are summarised in Tables 1.1 and 1.4 at the end of this narrative.

Hard coal production

OECD production

OECD hard coal production reached 1 525.2 Mt in 2008, a 1% increase over 2007. After six years of growth, the OECD production reached its historical peak since the inception of the IEA.

In 1973, the OECD accounted for about 50% of the world hard coal production. However, since then its share has continuously declined as more non-OECD

countries have increased hard coal production. While OECD's production increased throughout the '70s and '80s, its share of world production declined to about 40% by 1990 and by 2008 was only about 26%.

The largest OECD coal-producing region is OECD-North America, with 69% of the OECD production. Nearly 22% of the OECD production is in the Pacific region and the remaining 9% is in the OECD-Europe region.

Table I.1: Major hard coal producers* [Mt]

	2006	2007	2008e
PR of China	2320.2	2466.4	2761.4
United States	991.5	981.7	1006.6
India	428.2	454.4	489.5
Australia	299.7	323.8	325.4
Russia	210.4	217.9	247.1
Indonesia	195.8	230.2	246.2
South Africa	244.8	247.7	235.8
Kazakhstan	92.0	93.5	104.4
Poland	95.2	88.3	84.3
Colombia	65.6	69.9	78.6
Ukraine	61.4	58.7	59.3
Vietnam	38.9	42.5	39.9
Canada	29.9	32.8	33.2
DPR of Korea	27.2	23.9	28.6
Germany	23.8	24.2	19.1
Other	84.4	86.0	85.9
Total	**5209**	**5441.9**	**5845.3**

* Production includes recovered slurries.
See Table 1.1 in Part II for historic data on selected countries.

OECD-North America

OECD-North America production grew by 2.4% from 1 027 Mt in 2007 to 1 051.2 Mt in 2008. The United States is the second largest global hard coal producing country and the seventh largest hard coal exporter. Canada is the thirteenth largest hard coal producer and eighth largest exporter, while Mexico produced 11.5 Mt in 2008 for domestic consumption.

OECD-Pacific

Hard coal production in the OECD-Pacific region increased by 0.5% in 2008, rising from 331.2 Mt to 332.8 Mt. Coal production in the region is driven by production in Australia, which is the largest hard coal exporter, and currently produces nearly 98% of the region's hard coal. Production in New Zealand—a perennial player in international coking coal markets—was up 0.08 Mt, a 1.8% increase from its 2007 level.

The other two countries in the region are not significant coal producers. The Republic of Korea, which operates some anthracite mines for domestic use, has experienced declining production for many years and in 2008, has reached a level roughly 50% of that in 1995 and 16% of that in 1990. Commercial coal production in Japan ceased in 2002.

OECD-Europe

In 2008, the OECD-Europe region counted nine primary hard coal producing countries, one of them (France) producing only from recovered slurries. Hard coal production stopped in Belgium in 2006. Total regional hard coal production was 141.1 Mt, a decrease of 7.2% or 10.9 Mt compared to 2007. Hard coal production for the OECD-Europe has declined steadily since 1995, of which the sharpest decline occurred between 1997 and 2000.

The largest producing countries are Poland, Germany, the United Kingdom, the Czech Republic and Spain with 60% of OECD Europe hard coal currently being produced in Poland. Turkey was the only country not to show a decline in hard coal production in 2008 compared to 2007. In the second tier of producers, hard coal represents only a small fraction of their domestic energy supply. In Turkey it is linked to local markets for power generation and household consumption. Production in Norway is limited to the island of Spitsbergen, where mines are operated to provide employment for local inhabitants.

Non-OECD production

Hard coal production in the non-OECD countries increased by 9.9% from 3 931.6 Mt in 2007 to 4 320.1 Mt in 2008. Over 99% of the non-OECD coal production is accounted for by ten producing countries.

Among the non-OECD countries, ***China*** accounts for over 47% of world hard coal production and nearly 64% of non-OECD production. In 2008, its production reached 2 761.3 Mt, an increase of 295.0 Mt (12%) above its 2007 level. Consequently, a staggering 73% of the 2008 increase in world hard coal production is attributable entirely to China. It should be noted that the IEA Secretariat currently incorporates lignite and sub-bituminous coals in hard coal for China while it is in the process of determining accurate figures with Chinese counterparts. When finalised, the amounts could be noticeable in terms of brown coal figures, but not so much for the drop in hard coal figures as their entire brown coal production

will be only a minor proportion of China's annual growth in coal production.

Hard coal production in China has experienced a remarkable recovery since the late 1990s when the government instituted a series of company consolidations and mine closures. China's production has more than doubled since 2000, which allows the country to meet fast growing demand for coal to generate electricity and steel making. However, as a major coal exporter, China moved from the second largest hard coal exporter in 2001 to the sixth in 2008. When also taking into account that China is the sixth largest hard coal importer, their net exports in 2008 were a mere 1.8 Mt or a negligible 0.04% of domestic energy consumption. Future import and export balances will depend heavily on - amongst other things - China's massive electrification program and ability to rapidly upgrade their freight rail infrastructure.

For more information on coal in China, see pages IV.17 to IV.20 in this publication and also the IEA's *Cleaner Coal in China* publication released in May 2009.

India is the second largest non-OECD hard coal producer and third in the world. India hard coal production increased by 7.7% or 35.1 Mt from 454.4 Mt to 489.5 Mt and although it dominates South Asian production, it contains a very high ash quotient and is consumed domestically.

South Africa accounts for 97% of Africa's hard coal production, which represents 4% of world production. In 2008, South Africa was overtaken by both Indonesia and Russia to drop to being the seventh largest hard coal producer as production dropped to pre-2003 levels. Likewise, it has been overtaken by the United States to become only the sixth-ranking coal exporting country in the world.

Russia is by far the largest producer among FSU countries. Its production combined with Kazakhstan and Ukraine represents over 99% of total production from transition economies. Russia's production increased by 29.2 Mt or 13.4%, to 247.0 Mt, in 2008.

Indonesia produces over 70% of the hard coal mined in South-East Asia annually and it remains the sixth largest hard coal producer in 2008 with coal production reaching 246.2 Mt, up 15.9 Mt (6.9%) from its 2007 level. Indonesia is also the second largest coal exporter worldwide behind Australia and the largest exporter of steam coal since 2005, surpassing Australia.

For more information on coal in Indonesia, see pages IV.30 to IV.32 in this publication and also the IEA's *Energy Policy Review of Indonesia* publication released in November 2008.

Kazakhstan is the second ranking among the FSU countries in terms of production. The production of hard coal increased by 11.6% in 2008 to 104.4 Mt, the first time in excess of 100 Mt has been produced in Kazakhstan since 1993.

Colombia is the main hard coal producer in Latin America and has a growing presence on the international export market. Its production increased by 12.5% —from 69.9 Mt to 78.6 Mt, which follows increases of 11.1% in 2006 and 6.6% in 2007. Colombia is the fourth largest coal exporting country in the world on a par with the United States.

The ***Ukraine*** represents 14.4% of the production of hard coal in the FSU countries, as its production increased 1% to 59.3 Mt in 2008, but did not keep pace with increases in Kazakhstan and Russia.

Vietnam coal production decreased by 6.1% from 42.5 Mt to 39.9 Mt, primarily due to supply disruptions of anthracite river trade with China.

Although statistics on ***DPR Korea*** are not provided by any official sources, production is thought to have increased approximately by 19.7% in 2008, rebounding from 23.9 Mt to 28.6 Mt after a 12.1% dip in 2007.

Brown coal production

Based upon the most recent study from the German Federal Institute for Geosciences and Natural Resources (BGR), the total global economic reserves of soft brown coal are about 279.3 billion tons revised downwards slightly from estimates the year prior. Qualities and thermal values can vary considerably between different deposits; nevertheless, brown coal (lignite) is an important source of energy supply.

The production of brown coal decreased marginally in 2008, down 0.4% (or 4.3 Mt) from 955.7 Mt to 951.4 Mt. OECD's brown coal production decreased slightly from 626.1 Mt to 617.3 Mt (or 1.4%), while

non-OECD's production rose 1.4% from 330 Mt to 334.1 Mt. Of note, Spain's production fell from 9.3 Mt to 2.9 Mt and Germany's decreased by 2.8% or 5.1 Mt to the lowest in eight years. Russia's brown coal production increased 4.9% to 76 Mt.

Following its 1989 peak, brown coal production declined steadily until 1999, largely as a result of contractions of demand and supply in central and Eastern Europe. Production more or less stabilised since mainly as a result of an increased use for electricity generation in countries such as Germany, Greece, Serbia and Montenegro, Romania, India and Canada.

Almost all lignite is mined by opencast operations, and almost all is used for electricity production in local plants, although smaller amounts are used in some countries for industry and to produce briquettes for home heating. In several countries, brown coal is used to generate over half the country's electricity production (Estonia, some former Yugoslav countries, the Czech Republic and Greece) and in others (Romania, Poland, Bulgaria, Slovenia, Germany, Australia and Hungary) significant shares of electricity production are fuelled by lignite.

OECD production

The OECD countries account for 64.9% of brown coal production. Although there is some brown coal production in the OECD-Pacific region (over 99% from South Eastern Australia), the largest components of OECD supply are centred in OECD-Europe (71.5%) and OECD-North America (16.8%)

OECD-North America

In the OECD-North America region, brown coal production is centred in the United States and Canada. Total regional production in 2008 declined from 106.9 Mt to 103.6 Mt. Of that volume, production in the United States represented 66.3%. Brown coal production in the United States decreased by 3.7% from 71.3 Mt to 68.7 Mt in 2008, while Canadian brown coal production levels decreased by 2.0% to 34.9 Mt.

OECD-Pacific

Brown coal production in the OECD-Pacific region occurs in Australia and New Zealand. Australian brown coal production grew in 2008 by an estimated 10.3% from 65.6 Mt to 72.4 Mt. New Zealand production reached 253 kt in 2008, which is roughly equivalent to the 2007 level of 260 kt.

OECD-Europe

The OECD-Europe region is the largest brown coal producing geographical aggregate summarised in this study. Production in the region decreased by 2.7% in 2008, down from 453.3 Mt to 441.1 Mt. Eight countries in the OECD Europe region report brown coal production. By far the largest is Germany, which is also the top ranked world brown coal producer. Production in Germany decreased in 2008 by 2.9% from 180.4 Mt to 175.3 Mt.

The second tier of OECD-Europe producers has annual output between 50 Mt and 75 Mt per annum. Brown coal production in Poland increased by 3.5% from 57.5 Mt to 59.6 Mt. Brown coal production in Turkey showed an increase of 0.3%, from 72.9 Mt to 73.1 Mt holding stable after a 17.7% increase in 2007. This growth in Turkey is due to a new lignite-fired plant and contrasts with the trend of declining brown coal production between 1999 and 2004. Production in the Czech Republic was down 4.1% from 55.0 Mt to 52.7 Mt while Greece decreased 0.9% to 65.7 Mt.

Other significant brown coal producers in the region include Hungary and the Slovak Republic. In 2008 Spain closed its lignite mines, but still continues to produce sub-bituminous brown coal.

Non-OECD production

Non-OECD brown coal production rose to 334.1 Mt in 2008, an increase of 1.4% which follows a 3.5% increase in 2007. By far, the vast majority the of non-OECD brown coal production occurs in the transition economies while most of the remaining production occurs in East Asia and South Asia.

Russia is the largest Non-OECD producer with 76.0 Mt reported in 2008, an increase in production of 6.9% over its 2007 level of 71.1 Mt.

Serbia had a production increase of 0.8% as it continues to recover from the dislocation of war and sanctions imposed in the late '90s, increasing to 37.4 Mt.

Production increased by 1.1% in ***Bulgaria***—rising from 28.4 Mt to 28.7 Mt, while conversely, production in ***Romania*** fell by 2.9% to 34.7 Mt.

Brown coal production in ***India*** decreased by 5.1% in 2008, from 34.0 Mt to 32.2 Mt, although brown coal comprises less than 5% of India's coal consumption.

In ***Indonesia***, the largest producer in East Asia, production in South Sumatra was estimated to be in the order of 38.0 Mt in 2008.

Table I.2: Major brown coal producers* [Mt]

	2006	2007	2008e
Germany	176.3	180.4	175.3
Russia	74.1	71.1	76.0
Turkey	61.9	72.9	73.1
Australia	67.7	65.6	72.4
United States	76.4	71.3	68.7
Greece	64.8	66.3	65.7
Poland	60.8	57.5	59.6
Czech Republic	55.2	55.0	52.7
Indonesia	30.7	34.5	38.0
Serbia	36.8	37.1	37.4
Canada	36.1	35.6	34.9
Romania	34.9	35.8	34.7
India	31.3	34.0	32.2
Bulgaria	25.7	28.4	28.7
Thailand	19.0	18.2	17.6
Other	88.4	92.0	84.4
Total	**940.1**	**955.7**	**951.4**

See Table 1.4 in Part II for historical data.

Coal resources, reserves and production

Definitions

Quantification of mineable coal is based on a consideration of geological, mining and economic criteria. The amount of coal in place and in some cases the amount of mineable coal is influenced by national resource measurement criteria. The basis for computation of these resources varies from country to country, and it must be borne in mind that for this reason, direct comparisons are sometimes not possible. During the 1990s, there was a considerable discussion on the adoption of internationally recognised standards for reporting reserves. This largely stems from the requirements of capital markets for improved transparency in reserve estimation where project financing is being sought. However, to date there has not been any adoption of international standards. There are, however, some generally recognised definitions that can be applied. For example:

- **Resources** refer to the amount of coal that may be present in a deposit or a coalfield. This does not take into account the feasibility of mining the coal economically. Not all resources are recoverable using current technology. Reserves constitute those resources that are recoverable.
- **Reserves** may be defined further in terms of proved (or measured) reserves, and probable (or indicated) reserves, based on exploration results and the degree of confidence in those results. Probable reserves have been estimated with a lower degree of confidence than proved reserves. Estimates take account of coalfields' geological characteristics, in particular the regularity, thickness and quality of seams, the spacing of exploration boreholes and other exposures, and geological discontinuities such as faults or folding, all of which affect the practical recoverability of the coal.
- **Proved reserves** are those reserves that are not only confidently considered to be recoverable, but also can also be recovered economically, under current market conditions. In other words they take into account what current mining technology can achieve as well as the economics of recovery (mining, transportation and other relevant recovery costs such as government royalties, and coal prices). Proved reserves will therefore fluctuate according to economic conditions, especially price. It generally follows that proved reserves will decrease when prices are too low for the coal to be recovered economically, and increase when prices make the coal economically recoverable.

Coal reserve estimates

In its most recent study, the German Federal Institute for Geosciences and Natural Resources (BGR) estimates the current proved recoverable global coal reserves at 990 billion tonnes which was a decrease of 29 billion tons from 2007. Table I.3 provides a summary of BGR estimates of coal reserves and IEA estimates of 2008 coal production by regions. If total 2007 proved recoverable reserves are divided by total 2008 coal production, the world coal reserve base represents close to 146 years of production at current levels. Although it is beyond the scope of this piece to discuss the various national classification systems, and the range of definitions of coal resources and reserves, an overview of the national classification systems is provided in an Appendix to *Major Coalfields of the World*, a publication which was issued by the IEA Coal Research in June 2000.[1]

An estimate published by the World Energy Council (WEC) in 1978 set proved coal reserves at 636.4 billion tonnes. Thus, world proved coal reserves are 56% larger, or 353.5 billion tonnes higher than they were 30 years before, even though production from 1978 to 2008 is estimated at 145.3 billion tonnes.

1. *Major Coalfields of the World*, IEA Coal Research, London, June 2000.

Table I.3: Proved recoverable reserves in 2007 and 2008 production [Mt]

Region	Proved recoverable reserves 2007			Production 2008		
	Hard coal	Soft brown coal	Total	Hard coal	Brown coal	Total
OECD Europe	19 423	52 272	71 695	141.1	441.1	582.2
OECD North America	237 607	33 336	270 943	1 051.2	103.6	1 154.8
OECD Pacific	41 111	44 050	85 161	332.8	72.7	405.5
OECD Total	**298 141**	**129 658**	**427 799**	**1 525.2**	**617.3**	**2 142.5**
Transition Economies	123 966	107 612	231 578	411.3	219.7	631.0
of which: Russia	69 946	91 607	161 553	247.1	76.0	323.1
China	167 000	25 000	192 000	2 761.4	0.0	2 761.4
Asia	81 459	11 347	92.806	815.1	107.9	923.0
of which: India	73 090	420	73 510	489.5	32.2	521.7
Latin America	9 890	5 173	15 063	88.8	5.8	94.6
of which: Colombia	5 298	-	5 298	78.6	0.0	78.6
Africa and Middle East	29 861	9	29 870	243.5	0.6	244.1
World	**710 602**	**279 311**	**989 913**	**5 845.3**	**951.4**	**6 796.7**

Sources: Reserves - Bundesanstalt für Geowissenschaften und Rohstoffe (BGR) www.bgr.bund.de
Production - International Energy Agency, *Coal Information 2009*

Another estimate published by the WEC on reserves at end-2002 set proved coal reserves at 909.1 billion tonnes.

Even though it is difficult to compare the estimates from two different sources, the increase observed between the end-2002 coal reserves and the 2007 coal reserves suggests that, as the prices increased, a part of the resources was reallocated to reserves as they became economically recoverable.

2008 saw considerable changes to 2007 proved reserves, particularly in Russia, Kazakhstan, the Ukraine, Australia, the United States, South Africa and India, mainly due to a fluctuating coal price.

Geographic location of proved coal reserves

Although coal resources are widely distributed around the world, proved coal reserves tend to be concentrated in the countries which rely on coal for domestic energy or export revenue. OECD-North America and the Transition Economy countries controlled 27.4% and 23.4% of the proved coal reserves respectively. About 19.4% of proved reserves are in China and 9.4% in Asia (excluding China). Thus, almost 80% of proved coal reserves are concentrated in just four regions.

3. CONSUMPTION

This section reviews consumption of total, hard, steam and coking coal in 2006, 2007 and 2008.

All 30 OECD Member countries submit their official *historical* energy data to the IEA Secretariat in annual questionnaires. The most recent full questionnaire collected from each country contained supply and demand statistics for 2007 and historical revisions. In addition to submitting full annual questionnaires, the OECD Member countries submit a "mini-questionnaire" for the most recent calendar year (in this case 2008), which provides supply, trade and stocks statistics for each coal product. Since these statistics have often not been finalised at the national level, the OECD data for 2008 should be considered preliminary—and are labelled in this publication as estimates.

Tables showing detailed historical time series for selected products, countries and regions appear at the end of this narrative. Statistics on coal consumption in the OECD are also reported in detail in Part III of this book for each OECD country in terms of *tonnes of coal equivalent* (in Part III Table 4) and in *metric tons* (in Part III Table 6). Only data for the most recent and selected historical years are shown in tabular form in the text. Entire historical time series which run from 1960 for most OECD countries are available on a CD-Rom and also through the IEA website. More information on these sources is provided on the internet at *http://www.iea.org*.

Readers are referred to Part III of this publication for end-use statistics for individual OECD member countries, and the OECD as a whole. Data in Part III Table 5 are presented in an energy balance format and data in Part III Table 6 are presented for the major end-use categories separately for steam coal, coking coal and brown coal, in metric tons.

In the internationally accepted methodology for reporting energy statistics adopted by the IEA, the *consumption of coal in individual economic sectors* (for example, in industry or the residential sectors, or in industry sub-sectors (iron & steel, non-metallic minerals)) only includes coal that is *finally consumed* in that sector (i.e. "disappears") and does *not* include coal that is *transformed* into another fuel, such as coke, blast furnace gas or electricity, even though the transformation may occur as a normal part of operations. For example, coking coal is used by the steel industry to produce coke, which is, in turn, used in blast furnaces to produce pig-iron. Blast furnace gas formed in the blast furnace may also be used to produce electricity or heat that is sold to third parties. Moreover, the steel industry may also buy steam coal or other fuels and use them to produce electricity.

Information on coal used in the main non-OECD coal producing, importing and exporting countries up to 2007 (the latest year available) is presented in Part IV of this book, as well as summary tables on world coal supply and end-use for the years 1980, 1985, 1990, 1995, 2000 and 2005 to 2007. In addition, the IEA Secretariat estimates supply and trade statistics for the most recent calendar year (in this case 2008) using national contacts, coal industry publications and information from other international statistical sources. These data are taken from the IEA databases on the non-OECD countries, which are published annually in *Energy Statistics of Non-OECD Countries* and *Energy Balances of Non-OECD Countries*, after *Coal Information* is submitted for printing and therefore should be considered as preliminary estimates.

What is meant by the terms total coal, hard coal, brown coal, steam coal and coking coal is described in Principles and Definitions on page *xxviii*.

Total coal consumption

Total coal, discussed in this section, refers to the sum of hard coal and brown coal, converted to a common energy unit – in this case *million tonnes of coal equivalent* (Mtce). Table I.4 shows total coal consumption for selected countries expressed in Mtce.

Although competitive cost coal resources are relatively abundant world-wide (contributing to coal's use in many countries, principally for electricity generation). 74.0% of world consumption of coal is accounted for by just five countries—China, the United States, India, Japan and Russia. If a second set of five countries is added to this list—South Africa, Germany, Korea, Poland and Australia, then 84.4% of the world coal consumption is accounted for.

OECD consumption

OECD coal consumption for 2008 is estimated to be 1 615.4 Mtce, a decrease of 1.8% or 29.1 Mtce from the 2007 level of 1 644.5 Mtce. This decrease is comparable to the increase which occurred in 2007, and it is the first decrease since 2001 and only the third since 1994. It means that OECD coal consumption in 2008 increased by 6.3% over 1990 levels and accounted for 33.2% of global consumption.

In the United States, coal consumption is estimated at 788.1 Mtce in 2008, a 0.3% decrease from the level of consumption in 2007. In the remainder of the OECD-North America region, coal consumption was significantly reduced with a 21.0% downturn reported in Mexico and 13.9% in Canada from 42.3 Mtce in 2007 down to 36.4 Mtce in 2008.

In OECD-Europe, coal consumption is estimated to be 435.5 Mtce in 2008, a 6.1% decrease from the level of consumption in 2007. Coal consumption increased in Italy by 1.7%, but stayed constant or decreased in all other OECD-Europe countries. In fact, the combined consumption of Spain, Finland, Austria, Belgium, Portugal and Denmark showed a 24.3% decrease in 2008.

Total coal consumption in OECD-Pacific was 336.5 Mtce, up 4.0% from 323.6 Mtce in 2007. The majority of additional consumption came from Korea with an 11.3 Mt or 14.1% increase from 79.9 Mt in 2007 to 91.2 Mt in 2008. Australia and New Zealand also increased, whereas Japan declined slightly by 0.8% to 161.5 Mt.

Table I.4: Total coal consumption [Mtce]
(Selected countries)

	2006	2007	2008e
OECD countries			
United States	783.4	790.7	788.1
Japan	156.2	162.8	161.5
Germany	114.7	119.8	114.0
Korea	75.3	79.9	91.2
Poland	87.5	86.0	84.8
Australia	80.3	78.7	81.3
United Kingdom	58.0	54.5	49.7
Turkey	37.3	41.5	39.1
Canada	40.0	42.3	36.4
Czech Republic	30.1	30.2	29.3
Italy	23.4	23.7	24.1
Spain	26.5	29.4	20.2
France	17.9	18.8	18.1
Greece	12.0	15.4	15.0
Netherlands	11.5	12.0	11.4
Mexico	12.2	11.9	9.4
Denmark	7.8	6.6	5.9
Slovak Republic	6.1	5.8	5.8
Belgium	6.8	6.2	5.4
Other OECD	30.3	28.3	24.7
Non-OECD countries			
PR of China	1740.3	1855.3	2098.6
India	313.8	342.4	377.1
Russia	153.7	148.7	177.5
South Africa	133.7	138.7	133.2
Chinese Taipei	56.6	59.2	61.9
Indonesia	41.7	52.5	58.2
Ukraine	56.6	56.8	54.2
Kazakhstan	43.5	43.4	51.2
DPR of Korea	26.7	21.7	28.5
Brazil	16.9	18.0	20.8
Thailand	17.8	20.2	20.5
Vietnam	12.9	14.0	16.7
Malaysia	10.1	12.6	13.2
Romania	13.0	13.1	12.8
Hong Kong (China)	10.0	10.8	11.9
Israel	11.7	12.0	11.8
Bulgaria	9.8	10.9	11.1
Philippines	8.2	9.0	10.6
Serbia	10.3	10.4	10.2
Other non-OECD	55.5	59.6	70.8
European Union	*458.4*	*465.5*	*438.5*
Total IEA	*1605.0*	*1632.5*	*1605.9*
Total OECD	*1617.3*	*1644.5*	*1615.4*
Total non-OECD	*2742.8*	*2909.3*	*3248.1*
World	**4360.1**	**4553.8**	**4863.5**

See Tables 2.1 and 2.4 in Part II for historical data.

The term total coal refers to the sum of hard coal and brown coal after conversion to a common energy unit (tonne of coal equivalent - tce). The conversion is done by multiplying the calorific value of the coal in question by the total volume of hard coal and brown coal used, measured in physical units, i.e. in tonnes. The energy content of one tonne of coal equivalent is 29.3 Gigajoules (GJ) or 7000 kcal and corresponds to 0.7 tonnes of oil equivalent (toe).

Consumption refers to total primary energy supply. (TPES)

Non-OECD consumption

Total coal consumption in the non-OECD countries jumped by 11.6% from 2 909.3 Mtce to 3 248.1 Mtce. This increase is due mainly to China, which strengthened its position as the largest coal consuming country in 2008. Coal consumption was up in China (including Hong Kong) by 13.1% from 1 866.1 Mtce to 2 110.5 Mtce.

Consumption increased in major coal consuming countries like India, Russia, Chinese Taipei, Indonesia and Kazakhstan, while consumption declined in the Ukraine and South Africa. Consumption rose by 10.1% in India, 17.6% in Russia, 4.6% in Chinese Taipei, 10.9% in Indonesia and 18.0% in Kazakhstan. Coal consumption decreased by 4.6% in Ukraine and 4.0% in South Africa.

Hard coal consumption

Hard coal consumption covers coking coal and steam coal greater than 18 600 kJ/kg. Countries for which sub-bituminous coal is included in hard coal are listed in the box on page *xxviii*. Because of special coking qualities and their higher calorific value, and lower moisture and ash levels which minimise the transportation costs of the energy contained in these products, these coals comprise the vast majority of coal that moves in international trade, while brown coal is almost exclusively for domestic use.

The world hard coal consumption rose an estimated 7.4% in 2008 from 5 415.2 Mt to 5 814.1 Mt. The OECD consumption decreased by 1.8% from 1 734.9 Mt to 1 704.1 Mt, while the non-OECD consumption increased 11.7% from 3 680.3 Mt to 4 110.0 Mt.

Steam coal consumption

Steam coal has three main end-uses:

- by far, most steam coal is an input in the power sector to produce electricity and heat (which is then sold to third parties, mostly as district heat);
- as a fuel in the final consumption sectors for the production of heat and/or steam (i.e. in the industry, residential, commercial and public services, agriculture and transport sectors);
- small amounts are being used as PCI coal (pulverised coal injection) in blast furnaces and as well as for blending with coking coal.

World steam coal consumption was up 7.0% in 2008, from 4 671.0 Mt to 5 000.3 Mt. Steam coal consumption in the OECD countries decreased by 1.8% in 2008, from 1 536.6 Mt to 1 509.1 Mt. Viewed on a regional basis, steam coal consumption decreased by 1.1% in OECD-North America, a whopping 9.8% in OECD-Europe, and increased by 4.7% in OECD-Pacific, led by Korea.

Non-OECD steam coal consumption was up sharply by 11.4% from 3 134.4 Mt to 3 491.2 Mt. Steam Coal consumption increased in almost all of the major consumer countries with the exception of South Africa which decreased 8.1 Mt or 4.5%. It was up 12.2% in China from 2 073.2 Mt to 2 326.6 Mt, it increased by 8.3% (or 37.6 Mt) in India from 454.1 Mt to 491.7 Mt, and it was up 26.4 Mt in Russia reaching levels not seen since 1994.

Coking coal consumption

Coking coal has three main end-uses:

- by far, most coking coal is used as an input for the production of coke oven coke in coke ovens;
- some coking coal is used as an input in the power sector to produce electricity and (which is then sold to third parties, mostly as district heat). In 2008, this occurred in Germany, Poland and Turkey;
- small amounts are used as a fuel in the final consumption sectors for the production of heat and/or steam (i.e. in the industry, residential, commercial and public services, agriculture and transport sectors).

In addition, coal injected in blast furnaces (PCI) in Japan is classified as coking coal in this book even though the coal is, according to the IEA methodology, steam coal. This reporting convention has been adopted here in order to be consistent with published Japanese import statistics where this coal is generally reported as importation of coking coal.

Coking coal is defined as a hard coal with a quality that allows the production of coke oven coke suitable to support a blast furnace charge. Traditionally, coking coals command a price premium over steam coals reflecting a higher carbon content. Almost all coking coal is transformed into coke oven coke in a coke oven and used in blast furnaces for the production of pig-iron. Pig-iron is subsequently converted to steel in an oxygen steel furnace. Hence, consumption of coking coal and coke oven coke, is derived from the

consumption of pig-iron and less directly from the consumption of steel.

New technologies for the production of steel that by-pass the blast furnace involving the direct reduction of iron ore are expected to further weaken the relationship between steel and coking coal consumption.

Coking coal consumption in the OECD (Table 2.2) increased by 3.9 Mt (2.0%) to 198.3 Mt in 2007. Estimates by member countries indicate a slight decrease in consumption with a 1.7% drop to 195.0 Mt in 2008.

Despite some recent growth in 2004, 2006 and 2007, coking coal consumption has generally been declining in the OECD since the mid-1980s. Several factors have combined to weaken coking coal consumption. First, to some extent, this is due to the growing use of pulverised coal injection (PCI), and to a lesser extent, heavy fuel oil injection into blast furnaces. Coal used for PCI is generally of steam coal quality, so steam coal is displacing coking coal. Second, the steel industries in the OECD countries are experiencing technological evolution where traditional integrated steel production, which relies on coke oven coke, is losing ground to electric arc furnace technology which does not require coke. Third, there has been a general migration of integrated steel manufacturing from the OECD to the non-OECD countries.

World consumption of coking coal in 2007 is estimated by the Secretariat to have increased by about 9.4% from 744.2 Mt to 813.8 Mt.

The major coking coal consumers with consumption of over or approximately 30 Mt per year; China, Japan, India, Russia, and Ukraine accounted for 76.8% of world annual coking coal consumption in 2008.

Estimates for 2008 (see Table 2.2) for the OECD countries are submitted by member countries while data for the non-OECD countries are estimated by the Secretariat based on many official and unofficial reliable sources.

Coke oven coke production and consumption

Coke Oven Coke is produced in coke ovens from coking coal that may be sourced from a single coal mine or produced from a blend of coking coals sourced from different coal mines. In some cases, non-coking coals (referred to as soft or semi-soft coking coals) can be included in the blend to make coking coal, and hence a coke, of a particular quality.

Most coke ovens are located at iron and steel plants; other coke oven plants are at coal mines or at town gas plants. Although coke oven coke is mainly consumed in the iron and steel industry in blast furnaces for the production of pig-iron it is also used in foundries, as coke breeze in sinter production, as well as in coke ovens themselves to support coke oven coke production.

In 2008, it is estimated that 126.8 Mt of coke oven coke was produced and 131.5 Mt of coke oven coke was consumed in the OECD countries (Tables 1.5 and 2.5 in Part II). Production decreased by 4.1 Mt or 3.1% from 130.9 Mt in 2007, as consumption similarly decreased 3.3% or 4.5Mt from 136.0 Mt in 2007 to 131.5 Mt in 2008 (Tables 1.5 and 2.5).

Stronger and more numerous environmental controls in the OECD countries, coupled with ageing coke plants, could lead to plant closures, thus increasing imports and world trade in coke although this is yet to be evidenced as a widespread trend. In fact OECD coke oven coke imports have fallen 20.0% against 2004 levels and 11.3% against the year 2000. Lack of domestic coking capacity in the United States and other OECD Europe countries could also be offset by higher pulverised coal injection rates in future years.

Coals for pulverised coal injection (PCI)

The steel industry is a major consumer of coal for use in the production of pig-iron in blast furnaces. The choice of coals for use in steel-making has been a prime concern of the industry, particularly in Japan with the expansion of the steel industry in the 1960s and following the oil price shocks which led to the significant substitution of heavy fuel oil by coal in some blast furnaces.

Improvements were made world-wide in coal blending technology, coking technology and coke application technology for blast furnaces, and in the late 1970s, semi-soft coking coal and non-coking coal were partly used for the first time.

In the second half of the 1980s, pulverised coal injection—a technology for injecting coal directly into the blast furnace to provide the chemical reaction agents necessary to convert iron ore to pig-iron—became more prevalent. Coal used in this way, as PCI, provides important economic benefits to the steel-maker; it lowers the quantity of coke required to produce pig-iron (one tonne of PCI coal replaces about 1.4 tonnes of coking coal and thereby prolongs the life

of coke ovens by reducing the amount of coke required to be produced. This is important because many coke ovens are reaching the end of their useful life and significant investment is required to replace or to maintain them, which often involves additional costs to meet stringent environmental standards.

Table I.5: PCI used in blast furnaces
(major consumers in thousand tonnes)

	2006	2007
Japan	10670	11594
Korea	5603	6284
Germany	2975	3115
France	2541	2453
India	2266	2377
Netherlands	1289	1559
United States	1408	1550
United Kingdom	1000	1109
Italy	1299	829
New Zealand	814	788
Spain	362	568
Slovak Republic	470	468
Sweden	426	426
Belgium	469	403
Turkey	..	266
Colombia	198	198
Total	**31790**	**33987**

See Table 5.4 in Part II for other countries and historical data. World totals are Secretariat estimates. Includes granular coal injection for some countries.

The performance of PCI technology depends on the quality and consistency of the pulverised coal used in the blast furnace. In terms of volatility, a wide range of coals—from anthracite to high volatile—are utilised. Indicative qualities for PCI coal (air dried) are as follows: below 7% ash; below 10% total moisture, low alkalis and low phosphorus.

It should be noted that in IEA statistics of coal consumption, PCI is classified by the IEA Secretariat as a steam coal (as most PCI coal is generally of a steam coal quality and not coking coal quality) for most countries. (For Japan, PCI consumption is reported in this book as a coking coal in order to be consistent with the Japanese practice of including imports of PCI coal with coking coal). This approach to coal classification for statistical reporting purposes recognises that PCI and other similar coals are also blended with coking coal to form a coal that is still suitable for coke making.

However, it should be noted that member countries are not consistent in reporting steam and coking coal import and export statistics to the IEA Secretariat because PCI coals are included in coking coal data by some countries and in steam coal by others. For this reason it is difficult to compare steam and coking coal supply in some large users of PCI or to match import data with export data for the same partner countries for steam and coking.

As imports and exports data for PCI coal are not available separately, the IEA Secretariat is not able to "correct" trade data reported by member countries to ensure that the series of steam and coking coal trade and supply are consistent.

PCI coal is classified as steam coal in the statistics of the following countries: France, Luxembourg and Turkey, whereas PCI coal is classified as a coking coal by the following countries: Australia, Belgium, Germany, Italy, Japan, United Kingdom and the United States. Data on PCI consumption are available from 1990 (Table 5.4). PCI consumption statistics suggest that PCI consumption worldwide is increasing as steel industries in the Non-OECD countries refine their steel making technology and add new processes such as carbon injection.

With the 2008 edition of *Coal Information*, Japan has reclassified part of its coal inputs to coke ovens as inputs to blast furnaces.

4. TRADE

Hard coal trade

World hard coal trade grew by 1.3% or 11.8 Mt in 2008. Trade is now estimated at 937.8 Mt in 2008 compared to 926.0 Mt in 2007.

Table I.6: World hard coal trade [Mt]

	2007	2008e	Growth (%)
World	**926.0**	**937.8**	**1.3%**
Asia - Pacific	465.5	484.4	4.0%
Europe	313.0	297.4	-5.0%
Africa + Middle East	23.7	24.9	5.2%
North America	55.4	46.2	-16.5%
Latin America	23.7	27.3	15.3%
Balancing Item	44.8	57.6	NA

Note: There is some uncertainty in the regional breakdown of trade because the balancing item in Part II, Table 3.2 has not been allocated to the regions. The convention adopted in this book is that world trade in coal is considered equal to the sum of the exports of all countries. Because total world imports do not equal total world exports for the same period (as trade is not instantaneous) a balancing item has been introduced in Part II, Tables 3.2, 3.3 and 3.4. As a consequence the sum of imports of coal by region will not coincide with world trade.

Detailed statistics on imports and exports by origin and destination for the OECD countries are presented in Part III. Detailed coal trade statistics for the main non-OECD countries are presented in Part IV of this book.

Exports

Australia remains the world's leading coal exporter with total hard coal exports reaching 252.2 Mt in 2008, 3.5% up compared to the previous year despite quarter one flooding in Queensland.

Indonesia continues to show exports growth with a further increase of 2.8% or 5.6 Mt to reach 202.6 Mt in 2008 and remains the second largest hard coal exporter in the world.

Russia's exports of hard coal increased by 3.3%, from 98.1 Mt in 2007 to 101.3 Mt in 2008, thus remaining the world's third largest hard coal exporter.

Colombia coal exports showed a rapid 14.4% increase reaching 73.9 Mt in 2008 remaining the fourth-largest coal exporter. This was despite a mammoth 38.0% increase in hard coal exports from the United States from 53.4 Mt to 73.7 Mt, following on from an impressive 18.9% growth in 2007.

South African exports dropped for the third straight year, (by 6.1% or 4.0 Mt) to 61.8 Mt in 2008, which is the lowest level since 1998. The country slides to become the world's sixth largest exporter.

Exports from China decreased for the fifth consecutive year, this time by 10.7% to 47.4 Mt which is almost exactly half of 2003's export tonnage (94.0 Mt).

Table I.7: Major hard coal exporters [Mt]

	2006	2007	2008e
Australia	231.3	243.6	252.2
Indonesia	171.4	197.0	202.6
Russia	91.4	98.1	101.3
Colombia	62.0	64.6	73.9
United States	44.9	53.4	73.7
South Africa	68.7	65.8	61.8
PR of China	63.2	53.1	47.4
Canada	28.0	29.7	31.5
Kazakhstan	27.4	29.5	27.1
Vietnam	21.3	31.9	20.7
Other	54.7	56.2	45.6
Total(1)	**864.3**	**922.9**	**937.8**

(1) See note (1) on Table I.8

Canadian hard coal exports increased by 6.1% (or 1.8 Mt) to 31.5 Mt, ensuring that Canada remains the eighth largest coal exporter. Kazakhstan, Vietnam, Poland and Venezuela all showed substantial percentile declines.

Coal exports from all other countries (including Poland and Venezuela) decreased by 18.9% from 56.2 Mt to 45.6 Mt in 2008. A bulk of these exports originated in Poland, Venezuela, the Czech Republic, Ukraine, and Norway. It should be noted that exports from Belgium and the Netherlands consist of re-exported volumes.

Imports

Although final data for coal imports does not allow for allocation of all reported coal exports to countries world-wide, preliminary estimates indicate that total world hard coal imports which can be allocated were about 922.6 Mt in 2008, a 1.6% increase over 2008 imports of 908.1 Mt.

The top five ranking coal importing countries in 2008 are, in order: Japan, Korea, Chinese Taipei, India and Germany. Of the top 20 importers, 10 decreased from 2007.

Table I.8: Major hard coal importers [Mt]

	2006	2007	2008e
Japan	179.1	187.0	185.6
Korea	79.7	88.3	99.6
Chinese Taipei	57.1	59.3	66.1
India	43.1	49.8	59.8
Germany	42.1	46.3	46.1
PR of China	38.1	51.0	45.6
United Kingdom	50.5	43.4	43.7
United States	32.7	32.9	30.9
Russia	25.7	23.4	25.8
Italy	24.6	25.0	25.1
France	20.4	18.7	21.3
Spain	23.7	24.4	21.0
Turkey	20.3	22.9	19.5
Netherlands	22.8	26.0	19.1
Brazil	13.4	14.9	17.7
Other	180.4	194.8	195.7
Total(1)	**853.7**	**908.1**	**922.6**

(1) Rounding, differences between coal types (coking and steam) and assignment of source and destination "non-specified" coal results in some discrepancies between Table 3.2, and Tables 3.14 and 3.16 in Part II. Statistics for hard coal exports and imports presented in these tables are shown for selected countries with historic data in Part II, Tables 3.5, 3.7, 3.14 and 3.16.

Seaborne coal trade

The methodology used to estimate seaborne trade is described in the accompanying box.

World seaborne coal trade was 849.3 Mt in 2008, of which 606.1 Mt was steam coal and 243.2 Mt was coking coal. Seaborne trade is up by 2.0% or 17.0 Mt compared to 2007. This marks the tenth consecutive year of growth for seaborne hard coal trade but a sharp fall from the previous five years which averaged 7.5%. The annual volume of world and seaborne trade since 1985 are shown in Part II, Table 3.1.

Table I.9: World seaborne hard coal trade [Mt]

	2007	2008e	Growth (%)
Steam Coal	606.7	606.1	-0.1%
Coking Coal	225.6	243.2	7.8%
Total	**832.3**	**849.3**	**2.0%**

Seaborne hard coal trade since 1985 has increased at an average rate of 6.6% for steam coal, 2.7% for coking coal and 5.1% combined. This trend was not matched in 2008 where steam coal trade declined 0.1% and coking coal trade grew 7.8%.

Methodology for estimating seaborne coal trade

Seaborne coal trade is estimated as exports from all countries with the following exceptions. Hard coal, steam and coking coal are calculated similarly:

Europe:

- Belgium, Czech Republic, France, Germany, Greece, Netherlands, Slovak Republic excludes continental Europe main rail and inland waterways shipping routes.
- Poland excludes one third of all exports to Germany and all exports to Austria, Bulgaria, the Czech Republic, Hungary, Romania, the Slovak Republic, former Soviet Union and former Yugoslavia
- Former Yugoslavia excludes intra-former Yugoslavia trade

Former Soviet Union Republics excludes all exports to Austria, the Czech Republic, Hungary, Poland and the Slovak Republic and exclude intra-Soviet Union trade

North / South America:

- Canada excludes to the United States
- Colombia excludes to Venezuela
- United States excludes to Canada, Mexico
- Venezuela excludes to Colombia

Asia:

- China excludes to DRP Korea
- DRP Korea excludes to China
- India excludes neighbouring countries except China
- Myanmar excludes to Thailand
- Vietnam excludes to Cambodia

Africa:

- South Africa excludes neighbouring countries
- Zimbabwe excludes neighbouring countries

The breakdown between coking and steam coal statistics in world coal trade is affected by the practice of some countries, e.g. Australia that includes some steam

coal (soft or semi-soft coking coal, used for blending or as PCI) in their coking coal statistics. Some countries, e.g. Japan (See Box on Japanese coal trade classification) also report such coals as coking coal imports but other countries include this trade in their steam coal import statistics. This results in a discrepancy between reported world imports and exports of coking and steam coal. As the use of PCI and blended coal increases, and unless countries adopt a standard reporting system for coal trade, this statistical problem will render data on steam and coking coal trade increasingly misleading. A standard reporting of PCI coal using a classification based on coal quality rather then on coal end-use would be a major improvement.

A note on Japanese coal trade classification

In the official Japanese trade statistics collected by the Ministry of Finance (MOF), imported coal is initially classified according to its inherent properties, then allocated to either the category steam or coking coal.

Bituminous coal with not more than 8% ash (on an air-dried basis) is always classified as a coking coal. Sub-bituminous coal, irrespective of its ash content, is classified as a steam coal. Bituminous coal with more than 8% ash can be classified as either a steam or coking coal, according to the judgement at the discharge port.

In practice, this means for example, that Kaltim Prima coal (classified as a steam coal in Indonesian export statistics) is always classified as a coking coal by MOF, despite its possible use as a power station fuel.

On the other hand METI (the Japanese Agency that submits trade data to the IEA) collects import data from coal users and classifies coal on the basis of its free swelling index (FSI) and percent Volatile content as follows:

FSI	Volatile content	Classification
greater than 1	Less than or equal to 14	coking coal
greater than 1	Less than or equal to 23	coking coal
others	Others	Steam coal

Overland coal trade

Coal traded overland internationally in 2008 was 88.5 Mt, and represented 9.4% of total international trade - a further decrease of 5.2 Mt, or 5.5%. This can be compared to 1985 where trade overland internationally was 182.4 Mt or 39.7% of international trade.

This trade consists primarily of trade between the United States and Canada, trade between countries within continental Europe and the former Soviet Union and trade between the successor republics of the former Soviet Union.

In North America, most coal is transported to the Great Lakes via railroad from producing regions in the Appalachian and Rocky Mountains, and taken by water-borne carriers ("lakers") to the final point of consumption. Trade between the US and Mexico is also primarily by rail. The main inland transportation method for overland transport in Europe is by rail; however, a significant amount of coal moves by inland waterway as well. Inland international coal trade in the former Soviet Union consists of primarily rail shipments of coal from Kazakhstan, Russia and Ukraine to each other, and to other former members of the Soviet Union. Also of note, while overland trade is only 9.4% of international trade, in 2008 international exports were only 13.8% of global production.

Steam coal trade

Total world steam coal exports decreased by 8.2 Mt or 1.2% in 2008 to dip to 676.0 Mt (Part II, Table 3.3).

In terms of tonnage volume, exports from Indonesia, Australia, Colombia and the United States rose in 2008 whereas Russia, South Africa, China, Kazakhstan, Vietnam and the Netherlands experienced a decline in their steam coal exports.

Table I.10: Major steam coal exporters [Mt]

	2007	2008e
Indonesia	167.7	173.0
Australia	112.4	115.3
Russia	88.0	85.8
Colombia	64.6	73.6
South Africa	65.1	61.3
PR of China	50.6	42.7
United States	24.2	35.1
Kazakhstan	29.2	27.1
Vietnam	31.9	20.6
Netherlands	11.9	6.5
Other	38.5	34.9
Total(1)	**684.1**	**676.0**

(1) See note (1) on Table I.11

In 2008, Indonesia increased their steam coal market share to 25.6% of world steam coal exports. Australia, Russia and Colombia followed with respective shares of 17.1% (up 0.4%), 12.7% (steady) and 10.9% (up 0.9%) as Australia, Indonesia and Colombia all produced record exports.

Table I.11: Major steam coal importers [Mt]

	2007	2008e
Japan	128.8	128.2
Korea	65.8	75.5
Chinese Taipei	54.9	60.2
United Kingdom	35.9	37.4
Germany	36.7	36.9
PR of China	44.8	35.3
India	27.8	30.9
United States	31.4	29.3
Russia	23.4	25.8
Italy	18.7	19.0
Spain	20.8	17.6
Malaysia	15.7	16.0
Turkey	17.8	14.9
Netherlands	21.7	14.7
France	13.3	14.0
Other	143.7	144.4
Total(1)	**701.2**	**700.1**

(1) Rounding, differences between coal types (coking and steam) and assignment of source and destination "non-specified" coal results in some discrepancies between Table 3.3 and Tables 3.19 and 3.21 in Part II. Statistics for steam coal imports presented in this table are shown for selected countries with historic data in Part II, Tables 3.10, 3.12, 3.19 and 3.21.

In 2008, steam coal imports in the ***Asia-Pacific*** market increased by 1.9%, or 6.8 Mt, to reach 362.3 Mt. Asia-Pacific imports represent 53.6% of total world steam coal trade in 2008. Consumption growth in the Asia-Pacific market has underpinned international steam coal trade in the recent past.

Japan remained, by far, the world's largest single market for seaborne steam coal, receiving 128.2 Mt in 2008, down 0.6 Mt from 2007. Other major recipients in the region were Korea (75.5 Mt), Chinese Taipei (60.2 Mt), China (35.3 Mt), India (30.9 Mt), Malaysia (16.0 Mt) and Thailand (13.1 Mt).

In 2008, the major steam coal suppliers to this Asia-Pacific market were Indonesia, Australia, China and Russia.

Steam coal exports to the ***European*** market were 226.0 Mt in 2007, 14.7 Mt or 6.1% lower than in 2007. This market represents 33.4% of total world steam coal trade in 2008.

Within the region, the major European importers were the United Kingdom (37.4 Mt), Germany (36.9 Mt), Italy (19.0 Mt), Spain (17.6 Mt), Turkey (14.9 Mt) the Netherlands (14.7 Mt) and France (14.0 Mt).

The 2007 main steam coal suppliers to this market were Russia, South Africa, Colombia, Indonesia, the United States, Poland and Australia.

In ***North America,*** steam coal shipments decreased by 18.0%, from 50.5 to 41.4 Mt in 2008. Total North American steam coal imports were down by 10.1 Mt.

Table I.12: World steam coal trade [Mt]

	2007	2008e	Growth %
World	679.2	676.0	-0.5%
Asia - Pacific	355.5	362.3	1.9%
Europe	240.7	226.0	-6.1%
North America	50.5	41.4	-18.0%
Africa + Middle East	18.7	20.3	8.3%
Latin America	9.4	13.7	45.0%
Balancing Item	**4.4**	**12.4**	**NA**

Note: Uncertainty in the regional breakdown of trade exists because the balancing item in Part II, Table 3.3, is not allocated to the regions. Due to the practice of some OECD countries classifying steam quality coal as coking coal imports, export statistics in this table have been adjusted to reflect this practice and are inconsistent with data in Part II, Tables 3.19 and 3.21.

The largest supplier to the North American market is Colombia, followed by trade between Canada and the United States, ahead of imports from Indonesia and Venezuela.

In 2008, 13.7 Mt of steam coal were imported to ***Latin American*** countries, (nearly half of which went to Brazil) an increase of 8.3% over 2007. The largest suppliers to Latin America are Colombia, Indonesia, South Africa, United States and Canada.

Coking coal trade

Total world coking coal trade increased by 6.1% from 246.8 Mt to 261.8 Mt in 2008.

Table I.13: World coking coal trade [Mt]

	2007	2008e	Growth %
World	246.8	261.8	6.1%
Asia - Pacific	110.0	122.1	11.0%
Europe	72.3	71.5	-1.2%
Latin America	14.2	13.6	-6.6%
North America	4.9	4.9	-1.2%
Africa + Middle East	5.0	4.7	-4.5%
Balancing Item	**40.3**	**45.2**	**NA**

Note: Uncertainty exists in the regional trade breakdown because the balancing item in Part II, Table 3.4 is not allocated to the regions. Due to the practice of some OECD countries classifying steam quality coal as coking coal imports, export statistics in this table have been adjusted to reflect this practice and are inconsistent with data in Part II, Tables 3.18 and 3.20.

Australia remained, by far the largest exporter at 136.9 Mt, with exports up by 5.7 Mt compared to the previous year. The United States has become the second-ranking coking coal exporter with increased volume of 38.6 Mt from 29.2 Mt or an increase of 9.4 Mt. The third-ranked Indonesia remained relatively stable with a 0.2 Mt increase to reach 29.6 Mt of exports.

Table I.14: Major coking coal exporters [Mt]

	2007	2008e
Australia	131.2	136.9
United States	29.2	38.6
Indonesia	29.3	29.6
Canada	26.0	26.6
Russia	10.0	15.5
PR of China	2.5	4.7
Czech Republic	4.8	3.1
New Zealand	2.0	2.6
Poland	2.4	1.6
South Africa	0.8	0.6
Other	0.6	2.0
Total(1)	**238.8**	**261.8**

(1) See note (1) on Table I.15.

Table I.15: Major coking coal importers [Mt]

	2007	2008e
Japan	58.2	57.4
India	22.0	28.8
Korea	22.5	24.1
Brazil	10.3	11.3
PR of China	6.2	10.3
Germany	9.6	9.3
Ukraine	8.6	7.4
France	5.4	7.2
United Kingdom	7.5	6.3
Italy	6.3	6.1
Chinese Taipei	4.5	5.9
Turkey	5.1	4.5
Netherlands	4.4	4.4
Poland	2.3	3.4
Spain	3.7	3.4
Other	30.3	32.7
Total(1)	**206.9**	**222.5**

(1) Rounding, differences between coal types (coking and steam) and assignment of source and destination "non-specified" coal results in some discrepancies between Table 3.4, and Tables 3.18 and 3.20 in Part II. Statistics for coking coal imports presented in this table are shown for selected countries with historic data in Tables 3.9, 3.11, 3.18 and 3.20.

The remaining market was divided among Canada, Russia, China, the Czech Republic, New Zealand, Poland and South Africa with 2 Mt being attributed to other countries.

Indonesia, South Africa and Colombia supply coals with marginal coking characteristics, but they are classified as coking coals in Table I.13 and Table I.14 since they are used in coking coal blends or for pulverised coal injection (PCI) by importing countries that classify them as coking coals.

Coking coal exports to ***Asia-Pacific*** are estimated to have increased 11.0% or 12.1 Mt to 122.1 Mt in 2008. Within the region, Japan accounts for 47.0% of the market, and remains the world's largest single market for seaborne coking coal. In 2008, exports to Japan reached 57.4 Mt.

Other major importers in the region were India (28.8), Korea (24.1 Mt) and Chinese Taipei (5.9 Mt). The major coking coal supplier to this regional market in 2008 was Australia, with nearly 58.0% of supply, followed by Indonesia and Canada, and then Russia and China.

Coking coal trade to the ***European*** market was 71.5 Mt in 2008, which is 1.2% lower than in 2008. This market accounts for 27.3% of the world coking coal exports.

Within the region, the major importers are Germany (9.3 Mt), Ukraine (7.4 Mt), France (7.2 Mt), the United Kingdom (6.3 Mt), Italy (6.1 Mt), Turkey (4.5 Mt), the Netherlands (4.4 Mt) Poland (3.4 Mt) and Spain (3.4 Mt). Belgium, the Slovak Republic, Romania, Sweden, Austria, Hungary, Croatia, the Czech Republic and Finland were the other coking coal exports recipients located in this region.

The main coking coal suppliers to this market in 2008 were Australia, the United States, Canada, the Czech Republic, Poland and and Russia. These six countries controlled 95.3% of the market.

Within ***North America*** a majority of coking coal trade is between Canada and the United States. About 4.9 Mt of coking coal was traded in the region in 2008.

In 2008, ***Latin America*** showed a net trade of 13.6 Mt of coking coal, 11.3 Mt of which went to Brazil. Chile and Argentina also reported small volumes of imports.

The main suppliers to this regional market are the United States, Australia and Canada. These three countries control 91.4% of the Latin American export coking coal market.

Coke oven coke trade

The OECD countries' imports of coke oven coke increased by 2.5% (0.5 Mt) to 19.1 Mt in 2008 (Table 3.13). Germany, the United States, Austria, Canada, Japan and France were the six major OECD coke importers in 2008, accounting for 68.9% of coke imports. Germany alone accounted for 22.7% of the OECD coke imports in 2008.

Coke exports from the OECD countries were about 12.9 Mt in 2008, a decrease of 4.9% over the 2007 level (Table 3.22). Poland, the United States, France, Japan, the Czech Republic and Spain were the top six exporters in 2008 accounting for 86.9% of coke exports.

Coke statistics for the non-OECD countries are available for 2007. Although coke imports and exports both increased, the non-OECD countries, as a region, remained a net exporter with imports of 13.3 Mt and exports of 20.6 Mt in 2007. Within the non-OECD countries, China (15.3 Mt) and Russia (3.2 Mt) were the main exporters, while India (4.2 Mt), the Ukraine (2.1 Mt) and Brazil (1.6 Mt) were the main importers. On its own, China accounted for 44.8% of world coke exports.

5. PRICES

This section provides analyses of customs unit values and end-user prices reported by OECD Member countries:

- Customs unit values are average values derived from customs' administrations total volume and total value data. These data indicate broad price movements as they are averages of all qualities of coal without regard to the end-use of the coal or to the contract terms and conditions under which the trade occurs.
- End-user prices are those paid by end-users in the power sector and in industry; and are reported by Member countries in a quarterly reporting system which the IEA's Standing Group on Long Term Co-operation initiated in 1981. Data received are published in the IEA quarterly publication *Energy Prices and Taxes*.

Unless otherwise stated, prices are reported in **US dollars** in the year specified (i.e. current US dollars).

Annual FOB, CIF and coal end-user prices for up to twenty three years are presented in tables at the end of this narrative; only the most recent representative prices are shown in tabular form in the text.

In addition to the official price statistics presented, coal price statistics published in the industry press are used to summarize short term spot steam coal price trends. Although not "official" in that they are not provided by member countries, there is a high correlation between prices published by the industry press and national coal price statistics.

International steam coal prices

Customs unit values

Steam coal import unit values

The estimated cost of steam coal imported by the OECD countries surged on the back of the energy commodity price spike experienced in particular by oil to an average of $121.19/t in 2008, measured by customs unit values, which showed an unprecedented increase of 66.8% from the level of $72.65/t in 2007. This follows a solid increase of 14.7% in 2007 (from the level of $63.34/t in 2006), especially when both are compared to a basic inflation index.

The average cost of steam coal imported into Japan was $125.42/t, an increase of 76.8% in 2008 from the average price level of $70.92/t in 2007. This follows a 12.0% increase from the 2006 level of $63.33/t with the end result of almost doubling the price in two years.

The cost of steam coal imported into the European Union averaged $137.79/t, increasing 67.6% in 2008 from the average price of $82.21/t in 2007 after an increase of 17.8% in 2007 from the 2006 level of $69.80/t.

Also of note, the rapidity of the rise and fall in prices in 2008 ensured yearly averages were well below intra year price highs experienced across spot markets.

Table I.16: Steam coal: Import unit values CIF [US$/t]

	OECD	Japan	EU
2006	63.34	63.33	69.80
2007	72.65	70.92	82.21
2008	121.19	125.42	137.79
Change 2006 to 2007	14.7%	12.0%	17.8%
Change 2007 to 2008	66.8%	76.8%	67.6%

See Tables 4.3 and 4.4 for previous years for Japan and EU.

Export unit values

Export unit values reflect the price of coal at the point of exiting a producing country; thus, the price includes the transportation cost of moving the coal from the producing mine to the point of exit; however, it excludes the international transportation cost. Export

unit values summarised in the table below, and detailed in Table 4.5 are "free on board" (FOB) for Australia, Columbia, Indonesia and South Africa; and "free at shipside" (FAS) for the United States. The value in FOB countries includes the cost of loading at the port of exit, while it is excluded in the data for the United States.

Table I.17: Steam Coal: Export unit values (FOB/FAS) [US$/t]

	Average to all markets				
	Australia FOB	Indonesia FOB	Colombia FOB	South Africa FOB	US FAS
2006	47.05	47.25	51.92	45.90	55.66
2007	51.11	60.91	57.76	51.06	52.61
2008	92.23	115.48	120.27	88.19	62.76
Change					
06 to 07	8.6%	28.9%	11.2%	11.2%	-5.5%
07 to 08	80.5%	89.6%	108.2%	72.7%	19.3%

See Table 4.5 for previous years.

Average FOB export unit value (in US dollars) for Australia, Indonesia, Colombia and South Africa increased strongly in 2008 with increases varying between 72.7% in South Africa to 108.2% in Colombia and this occurred in conjunction with increases in exports by all countries shown - with the exception of South Africa. The US FAS increased markedly, but moderately in comparison to the other countries, by 19.3% following price drops in 2006 and 2007.

Comparison to oil import values

In some OECD Member countries, steam coal competes directly with heavy and crude oil in the power generation sector, and increasingly natural gas, as outlined in more detail in this year's feature article on page I.31. It is therefore appropriate to compare imported steam coal and other selected import energy commodity prices on a raw calorific basis – average plant efficiencies for different technologies have not been factored in due to complexity - and are summarised in Figure I.1 on page I.27.

In 2008, the average import cost of steam coal increased by two thirds on a quarter by quarter comparison with 2007. In comparison, the average import cost of crude oil increased by 45.5% with a third quarter 2008 average cost of $592/tce. The Rotterdam average spot price of heavy fuel oil (3.5% sulphur) was 44% higher across 2008 at $329/tce compared to $234/tce average in 2007.

In terms of cost per unit of energy in the fourth quarter of 2008, crude oil and piped natural gas were both 2 times, and high sulphur fuel oil was 1.2 times more expensive than the cost of energy supplied with steam coal in 2008. This compares to a much higher factor of 4.5 for crude, 2.5 for piped natural gas and 3.4 for heavy sour fuel oil in 2007. Some of this can be explained by more volatility, flexibility and responsivity/sensitivity in the oil market in comparison to coal, and that the solid declines in coal spot prices in 2009, have not yet appeared on the right of this chart.

However, on a raw dollar per joule energy basis, coal remains the cheapest fossil fuel and has done so especially in the last decade. During the late 1980s and the 1990s, the IEA import cost of crude oil hovered between 150% and 200% of the cost of steam coal, on an energy equivalent basis. In 1999 however, the price of oil soared, leading the crude price to be nearly four times that of steam coal and twice that of natural gas. At the end of 2000 oil prices dipped briefly, but then rose again from 2002 onwards and increased dramatically starting in 2005, hitting an unprecedented peak in mid-2008. During this time the costs of steam coal and gas were increasing at a slower rate. Compared to the third quarter 2007 values, the third quarter 2008 gas import cost was 57% higher, the coal cost was 87% higher and the crude oil cost was up 64%. This meant that in the third quarter of 2008, in terms of cost per unit of energy, crude oil was 3.9 times more expensive than steam coal and 2.3 times more expensive than LNG. In the fourth quarter of 2008, however, crude oil costs decreased significantly, meaning oil was just 2 times more expensive than coal and 11% more expensive than LNG. In the first quarter of 2009 crude oil continued this decrease, and so it actually became 22% cheaper than gas imported by pipeline and 10% cheaper than LNG and is viewed by some as an overcorrection.

Comparison of import and export unit values

Figure I.2 on page I.27 summarises long term trends for Japanese and European Union import unit values and Australian, Colombian, and South African export unit values. The intent is to show the average difference between export and import values for three major coal exporters and two major coal importing entities. The difference theoretically relates to average international transport costs.

The chart illustrates that import values and export values tend to fluctuate in tandem—suggesting that, over the long run, international transportation rates remain relatively constant, with the exception noticed at the very end of 2008, where differences were roughly double what they were only two years earlier in 2006.

It also shows the sharp increase in FOB unit values from major exporters, along with corresponding rises in CIF import values in the key Japanese and EU markets, beginning in the late summer of 2003. Regional variations of import values are influenced by seaborne transportation rates as well as differences in underlying coal qualities and costs.

Spot steam coal prices

Figure I.3 and Figure I.4 summarise movements in average monthly spot coal prices in two coal consuming regions and two coal producing countries. The price statistics are estimated by The McCloskey Coal Group Ltd and published in *McCloskey's Coal Report* on a fortnightly basis. The estimates are based upon surveys of actual spot transactions in the importing and exporting regions. Though there are not official IEA statistics, these prices are shown here to illustrate short-term and more recent steam coal price movements.

The trend illustrated by Figure I.3 indicates a surge in CIF (imported) steam coal prices, beginning in late 2003 and culminating in July 2004. After that date, prices gradually declined to reach 2003 year's end levels by the end of 2005. Since then they have dramatically increased to reach a new record peak in July 2008, when CIF prices were 272% and 227% higher compared to their respective values in July 2008.

Driven by increased consumption and stagnant supply growth in the Atlantic market (EU and East/Gulf Coast North America), South African steam coal export prices showed a gradual upward pattern even in early 2003. After fluctuating in a narrow range in the fourth quarter of 2002 and the first quarter of 2003, steam coal prices surveyed at Richards Bay started a threefold increase and peaked by June 2004. However, prices went down during the next three quarters to resume the level of early 2004 by February 2005. Despite a short period of increases, Richards Bay export prices declined during the second half of 2005 to then increase significantly between November 2005 and March 2006, reaching its highest level since February 2004. During the first quarter of 2007, Richards Bay export prices started to increase steeply due to increasing oil prices and a higher demand on coal for electricity generation in major consuming countries, before doubling in the second half of the year increasing by a lerger amount in the first half of 2008 before hitting record prices in July 2008 over three times their July 2006 value. Since then, prices have returned to July 2007 levels.

Although prices at Newcastle, Australia (Figure I.4) began rising somewhat later in 2003, they surged even more strongly in the fourth quarter of 2003. The surveys of Newcastle prices suggest and increase of 245% between April 2003 and June 2004. As in Richards Bay, prices in Newcastle fell during the second half of 2004, were fairly stable until July 2005 before falling and rising again, so that by August 2006 they were roughly at the level of August 2005. After a decrease between July and November 2006, Newcastle prices increased 475% between the short term low in November 2005 and the all time highs in July 2008. In the year since then, they have fallen by two thirds to levels comparable to June 2007.

International coking coal prices

Customs unit values

In Japan, average customs unit values for coking coal imports decreased slightly (5.0%) in 2007 after three consecutive years of increases, reaching again 2005 levels. This was overshadowed by the massive 108.2% increase where average coking coal prices more than doubled in 2008 (Table I.18).

In the EU, the average customs unit values increased in 2008 by 57.4%, from $125.73/t to $197.84/t, after remaining stable in 2007.

Table I.18: Coking coal: Import unit values (CIF) [US$/t]

	Japan	EU
2006	93.10	125.86
2007	88.43	125.73
2008	184.13	197.84
Change 2006 to 2007	-5.0%	-0.1%
Change 2007 to 2008	108.2%	57.4%

See Tables 4.1 and 4.2 for previous years.

Export unit values summarised in Table 1.19, and detailed in Table 4.6, are "free on board" (FOB) for Australia and "free at shipside" (FAS) for the United States. Thus, the value in Australia includes the cost of loading at the port of exit, while it is excluded in the data for the United States.

Table I.19: Coking coal: Export unit values (FOB/FAS) [US$/t]

	Australia	US
2006	98.27	111.72
2007	84.16	98.10
2008	194.87	148.39
Change 2006 to 2007	-14.4%	-12.2%
Change 2007 to 2008	131.5%	51.3%

See Table 4.6 for previous years.

In 2008, coking coal export unit values increased to windfall levels for Australia and the United States with whopping respective gains of 131.5% and 51.3%. Prices in Australia soared to $194.87/t and the United States $148.39/t from their levels a year earlier of $84.16/t and $98.10/t.

Coking coal CIF prices incorporate fluctuations in shipping rates.

End-user prices

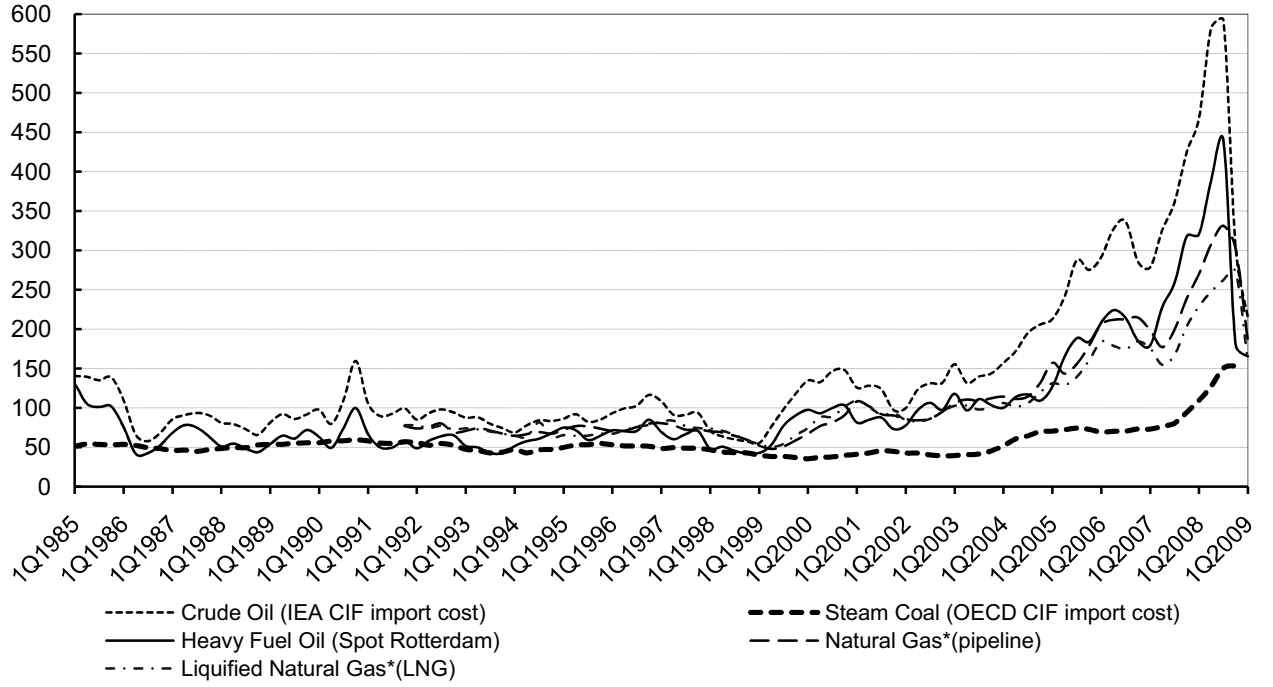
Data on coal prices paid by end-users in the power sector and in industry are reported to the OECD by member countries in a quarterly reporting system which the IEA's Standing Group on Long Term Co-operation initiated in 1981. Data received are published in the IEA quarterly publication *Energy Prices and Taxes*. Data presented in US dollars in Tables 4.7, 4.8 and 4.9 have been sourced from this publication.

In Part III, Table 13, where it has been reported, prices of coal used in the power sector and by industry are shown in both national currencies and in US dollars on a tonne of coal equivalent basis.

It should be stressed that definitions for prices shown for a particular energy source in a given sector may differ substantially from country to country. Although the Secretariat aims to report data that is comparable between countries, users are advised to carefully refer to the general and country-specific notes in the IEA publication, *Energy Prices and Taxes,* for details of sources and data coverage.

End-user prices for some non-OECD countries are collected by the IEA Secretariat and are also published quarterly in *Energy Prices and Taxes*.

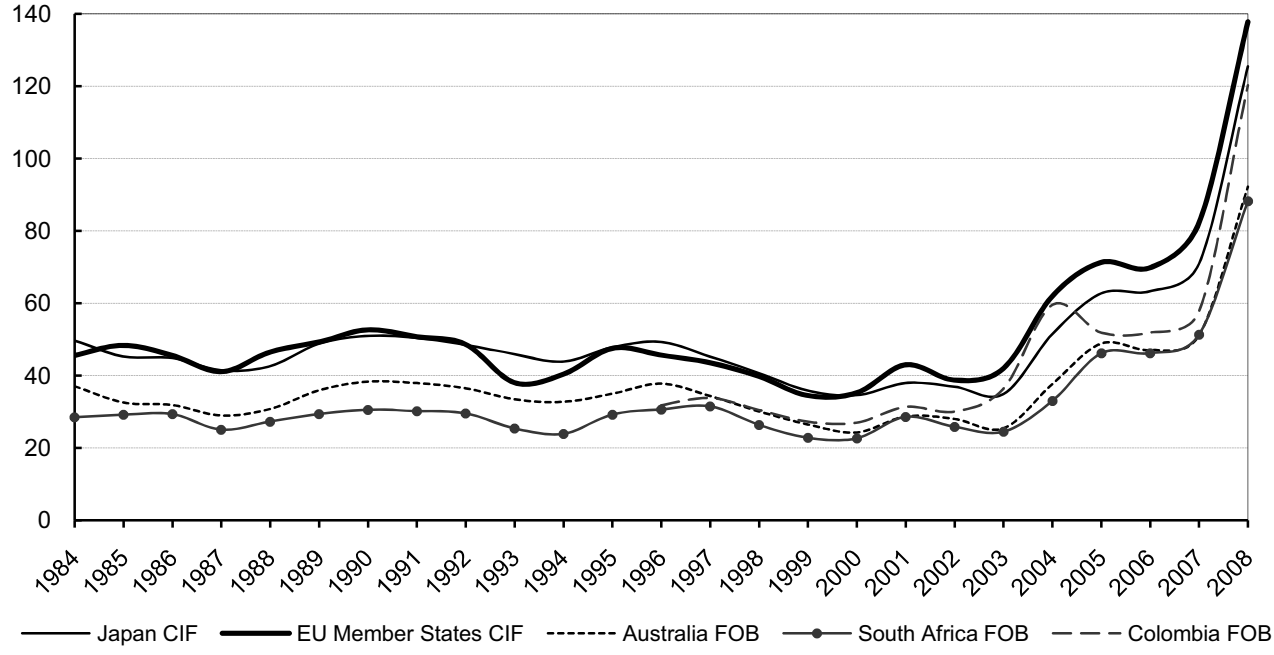
Figure I.1: OECD international trade values for steam coal and oil
(US$/tce)



Source: *IEA/OECD Energy Prices and Taxes*.

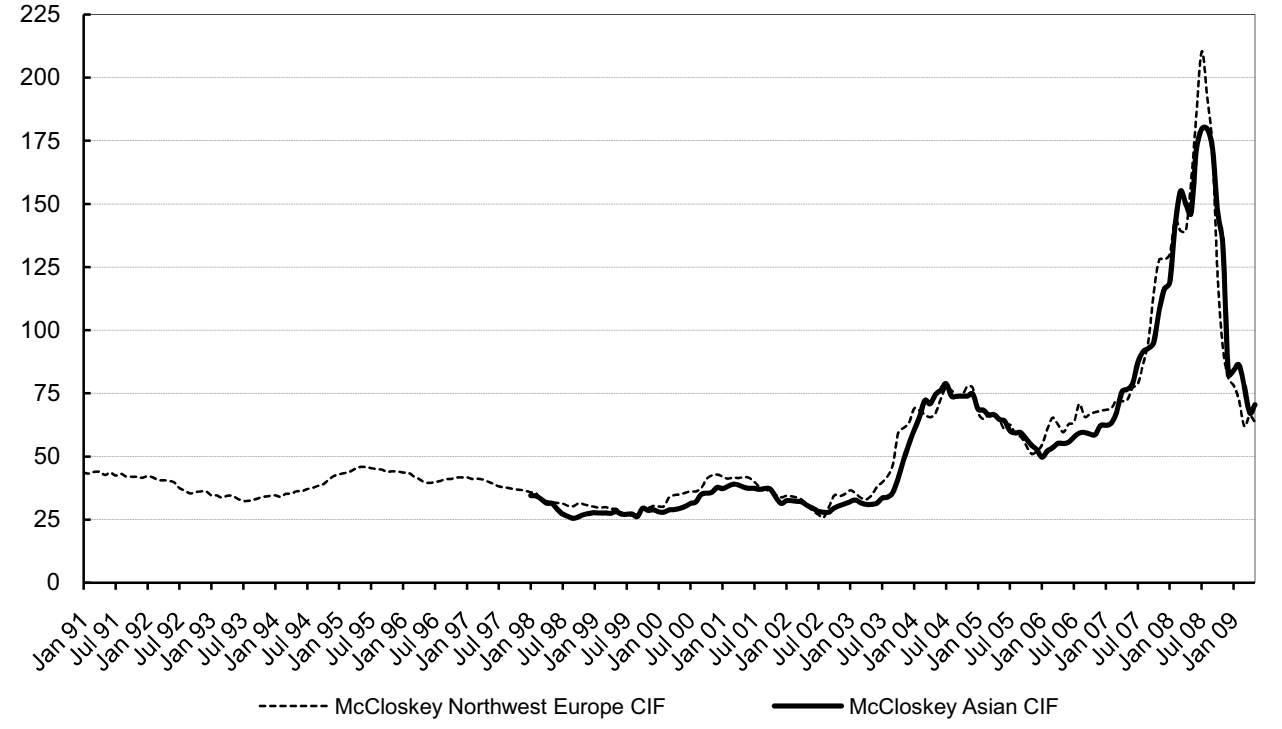
Notes: Spot prices for heavy fuel oil are not directly comparable to customs unit values for steam coal. They are, however, closely correlated with average CIF crude oil prices, which are, by definition comparable to customs unit values for steam coal. As a consequence, it is not unreasonable to compare customs unit values for steam coal with spot prices of heavy fuel oil. Steam coal and crude oil are IEA average and CIF import values. Steam coal excludes intra-EU trade. Heavy fuel oil is Rotterdam spot market value, 3.5% sulphur.

Figure I.2: Steam coal import and export value comparison
(US$/t)



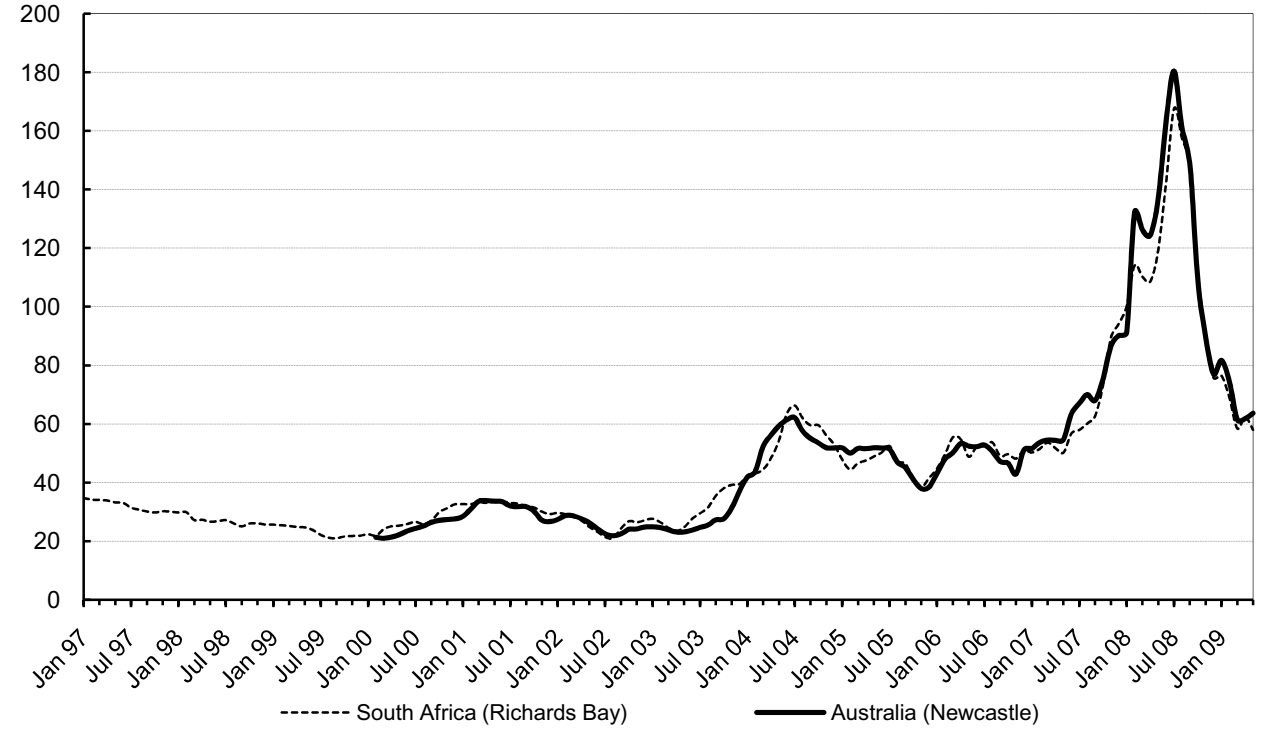
Source: *IEA/OECD Energy Prices and Taxes.*

Figure I.3: Delivered steam coal prices in Europe and Asia (US$/t CIF)



Source: The McCloskey Coal Group Ltd, *McCloskey's Coal Report*

Figure I.4: FOB port steam coal prices in South Africa and Australia (US$/t FOB)



Source: The McCloskey Coal Group Ltd, *McCloskey's Coal Report*

6. CO_2 EMISSIONS (2006)

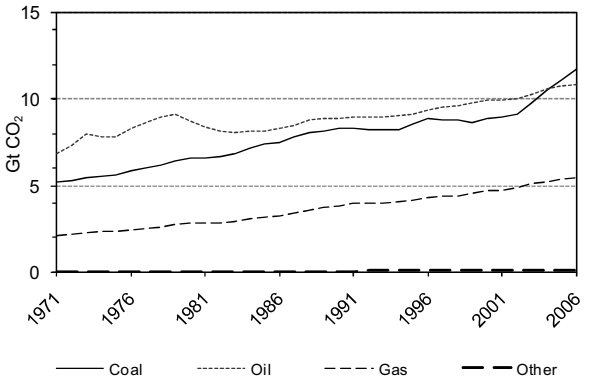
World CO_2 emissions from fossil fuels increased by 98.7% between 1971 and 2006, going from 14.1 Gt in 1971 to 21.0 Gt in 1990 and 28 Gt in 2006. Over the same period, coal-related emissions increased by 125% from 5.2 Gt in 1971 to 8.3 Gt in 1990 and 11.7 Gt in 2006, then accounting for 41.7% of CO_2 emissions from fossil fuels. Coal since 2004, is the leading source of world CO_2 emissions ahead of oil and natural gas. Since 2003, CO_2 emissions from coal have grown per annum by an average of 650Mt (with growth averaging 6.5%), over 60% of which has come from rapid growth in China.

The annual growth in the emissions from fossil fuels averaged 2.1% between 1971 and 1990 while it averaged 1.8% between 1990 and 2006. This lower pace of growth after 1990 is in part related to the collapse of the formerly centrally-planned economies of Central and Eastern Europe, which led to a rapid decline in inefficient industrial sectors and restructuring of these economies. Other important factors include the use of more efficient technologies, fuel switching and renewable energy sources. Of note though, while emissions increased on average by 1.2% between 1990 and 2000, they rose more quickly between 2000 and 2006, at an average pace of 2.9%.

OECD emissions from fossil fuels increased from 9.3 Gt in 1971 to 11.1 Gt in 1990 and 12.9 Gt in 2006, which represents average annual growth rates of 1.0% between 1971 and 1990 and 0.9% between 1990 and 2006. As a result, the share of the OECD countries in total world CO_2 emissions declined from 66% in 1971 to 53% in 1990 and 51% in 2006. Conversely, the share of the non-OECD countries in total world CO_2 emissions rose from 30% in 1971 to 44% in 1990 and 46% in 2006, while the share of international aviation and marine bunkers (which cannot be attributed to a region) remained stable around 3%.

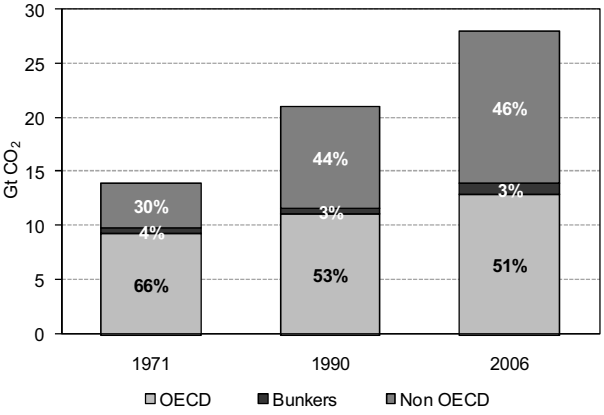
The increase in coal-related emissions was bigger in the non-OECD countries, which became responsible for the majority of coal-related emissions from 1992 onward. The non-OECD countries more than tripled their coal-related emissions from 2.1 Gt in 1971 to 7.3 Gt in 2006, whereas the increase in the OECD was of 40.3% from 3.1 Gt in 1971 to 4.4 Gt in 2006.

Figure I.5: World CO_2 emissions by fuel



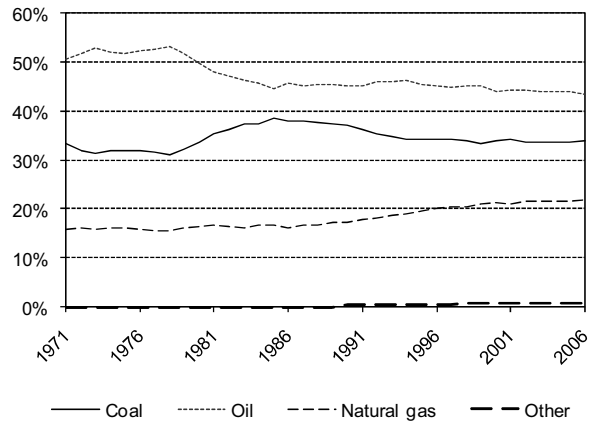
Source: *IEA/OECD CO_2 Emissions from Fuel Combustion*

Figure I.6: World CO_2 emissions by region



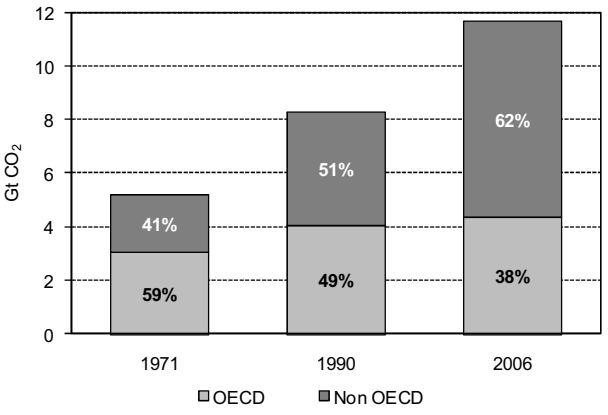
Source: *IEA/OECD CO_2 Emissions from Fuel Combustion*

Figure I.7: OECD CO_2 emissions by fuel - shares



Source: *IEA/OECD CO_2 Emissions from Fuel Combustion*

Figure I.8: Coal-related CO_2 emissions by region



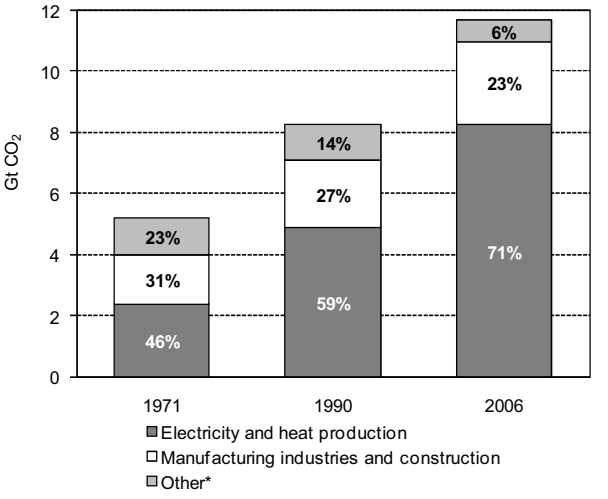
Source: *IEA/OECD CO_2 Emissions from Fuel Combustion*

CO_2 emissions have been clearly linked to economic growth as shows in the example of China, where strongly increasing electricity production is the main driver for record high CO_2 emissions. Coal consumption for electricity generation more than doubled in China between 2001 and 2006. World CO_2 emissions have also been influenced by changes in international energy prices. Oil has been the largest contributor to world emissions until 2003, even though the upward trend was interrupted by the oil shocks of 1974 and 1979. Following the decline in oil prices after 1985, growth in emissions was mitigated because consuming countries adopted more energy-efficient technologies and behaviour, and some fuel switching. Oil, as the main contributor to OECD emissions, generated 43.4% of the CO_2 emissions in 2006. As the OECD countries started diversifying their energy consumption after the two oil shocks, the share of oil in the CO_2 emissions gradually declined and fell below the 50% line in 1980.

Within the OECD, coal is the second source of CO_2 emissions: between 1971 and 1985, coal was used as the main substitute to oil and its share increased, especially between 1978 and 1985, from its lowest point (31%) to its highest point (39%). After 1985, the share of coal declined regularly and by 1994 essentially returned to its 1971 level (34%).

World coal-related CO_2 emissions due to electricity and heat generation more than tripled between 1971 and 2005, from 2.4 Gt in 1971 to 8.3 Gt in 2006. During the same period, emissions due to manufacturing industries and construction increased by 68.8%, from 1.6 Gt in 1971 to 2.7 Gt in 2006. Emissions due to the other sectors (including transport) were almost cut by half between 1971 and 2005, falling from 1.2 Gt in 1971 to 0.7 Gt in 2006. As a result, the electricity and heat generation share of world coal-related CO_2 emissions increased from 46% in 1971 to 71% in 2006, whereas the share of manufacturing industries and construction fell from 31% in 1971 to 23% in 2006. The decline in the share of other emissions was stronger, falling from 23% to 6% over the period.

Figure I.9: World coal-related CO_2 emissions by sector



* Other includes residential, transport, commercial/public services, agriculture, other enrgy industries and non-specified other sectors.

Source: *IEA/OECD CO_2 Emissions from Fuel Combustion*

7. THE FUTURE OF COAL-FIRED POWER PLANTS: *An extract from Energy Technology Perspectives 2008*

The following feature article is provided to acquaint the reader with ongoing analytical work at the IEA.

Synopsis

The world needs ever-increasing energy supplies to sustain economic growth and development, but energy resources are under pressure and CO_2 emissions from today's energy use already threaten our climate. What options do we have for switching to a cleaner and more efficient energy future? How much will it cost? And what policies do we need?

The second edition of *Energy Technology Perspectives: Scenarios and Strategies to 2050* addresses these questions. The publication responds to the G8 call on the IEA to provide guidance for decision makers on how to bridge the gap between what is happening and what needs to be done in order to build a clean, clever and competitive energy future.

The IEA analysis demonstrates that a more sustainable energy future is within our reach, and that technology is the key. Increased energy efficiency, CO_2 capture and storage, renewables, and nuclear power will all be important in a low-carbon economy and future. This innovative work demonstrates how energy technologies can make a difference in an ambitious series of global scenarios to 2050. Although this extract focuses on fossil-fuel power generation, the study contains technology road maps for all key energy sources and sectors, including electricity generation, buildings, industry and transport. Additionally, it provides detailed technology and policy insights to help focus the discussion and debate on our energy future.

Fossil-fuel electricity overview

A baseline reference scenario is calculated with current technology, modernisation and growth assumptions. Within this, global electricity production is predicted to increase by 179% between 2005 and 2050. In 2050, coal-based generation is forecast to be 252% higher than in 2005 to account for 52% of all power generation. The share of gas-fired power generation increases from 20% today to 23% in 2050. Nuclear decreases to 8%, hydro decreases to 10%, and wind increases to account for 2.5% of all power generation. Electricity production would consume 32% of total global fossil-fuel production and account for 41% of energy-related CO_2 emissions today. Improving the efficiency of electricity production therefore offers a significant opportunity to reduce the world's dependence on fossil fuels, and in so doing helps to combat climate change and improve energy security.

The current mix of natural gas and coal in electricity generation varies by country and region depending on resource availability and domestic fuel prices. Overall, 40% of the world's electricity production comes from coal and 20% from gas. In South Africa and Poland the share of coal in power generation is above 90%. In China and Australia it is close to 80%, and in India, it is more than two-thirds. Coal accounts for around half of electricity generation in the United States and Germany, one-third in the United Kingdom, one-quarter in Japan and one-sixth in Russia. Russia produces almost half of its electricity from gas,

Table I.20: Technical fuel savings and CO_2 reduction potentials from improving the efficiency of electricity production at existing plants

	Coal (Mtoe/yr)	Oil (Mtoe/yr)	Gas (Mtoe/yr)	All fossil fuels (Mtoe/yr)
OECD	134-213	12-24	60-81	205-320
G8	112-177	10-17	93-115	213-311
Plus five	189-244	7-12	7-10	203-266
World	356-504	36-64	105-134	494-702
	(Gt CO2/yr)	**(Gt CO2/yr)**	**(Gt CO2/yr)**	**(Gt CO2/yr)**
OECD	0.53-0.85	0.04-0.08	0.14-0.19	0.71-1.12
G8	0.44-0.71	0.03-0.06	0.22-0.27	0.69-1.03
Plus five	0.73-0.95	0.03-0.04	0.02-0.02	0.77-1.01
World	1.40-1.98	0.11-0.20	0.25-0.31	1.75-2.50

* Plus five is Brazil, China, India, Mexico and South Africa.
Note: Compared to the reference year 2005.

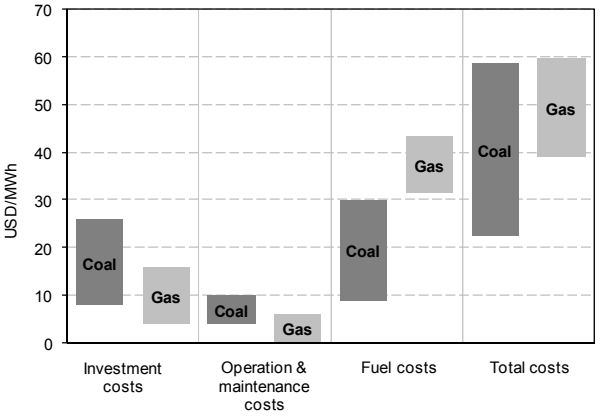
the United Kingdom close to 40% and the United States and Japan around 20%.

Carbon dioxide emissions from fossil fuel-fired plants can be reduced by improving conversion efficiency[2] – by modernising and refurbishing existing plants and deploying the best available technologies in new plants; by co-firing coal with biomass or adding bio-gas to natural gas; by employing CO2 capture and storage (CCS); and by fuel switching from coal to natural gas. The best combination of mitigation measures depends on the existing power generation stock, the price of competing fuels and the cost of alternative technologies. In the case of efficiency improvements, Table I.20 shows the potential savings that could be made at existing power plants.

The current status of coal- and natural gas-fired electricity generation

Power generation using natural gas is competitive with coal at current prices for natural gas and coal in many regions of the world (for gas, typically USD 4 to USD 8 per GJ). However, fuel costs in natural-gas combined-cycle (NGCC) plants account for 60% to 75% of total generation costs, as compared to plants powered by coal, where fuel costs account for less than half of the total (Figure I.10). At times, rises in gas prices in the United States and Europe in recent years have resulted in a switch from gas to coal-fired generation, and *vice versa*. A rapid development of natural gas-fired power generation could strain gas production and transport systems and lead to further natural gas price increases.

Figure I.10: Investment, O&M and fuel costs of natural-gas and coal-fired power generation



Source: IEA Greenhouse Gas R&D Programme (IEA GHG); IEA Clean Coal Centre (IEA CCC).

Key point: Natural gas plants are more sensitive to fuel costs, while coal plants are generally more capital intensive.

Power generation efficiency

The efficiency of hard coal-fired power plants averaged about 35% from 1992 to 2005 globally. The best available coal-fired plants can achieve 47%. The efficiency of brown coal-fired power plants increased from 33% in 1992 to 35% in 2005.

2. Efficiency figures in this chapter are based on both lower and higher heating values (LHV and HHV). LHVs, unlike HHVs, do not include the latent heat of the moisture originally present in the fuel or from combustion of the coal hydrogen. European and IEA statistics are reported on an LHV basis, while United States statistics are reported on an HHV basis. On these bases, HHV efficiencies are about 2%age points lower than LHVs for coal-fired power plants and 5%age points lower for gas-fired combined-cycle plants.

Coal-fired power generation in China

Installed power generation capacity in China has increased nearly ten-fold from 1985 to 2006, reaching 622 GW. This includes over 100 GW of new capacity in 2006 alone. Installed coal-fired capacity in China is projected to increase under the IEA WEO Reference Scenario to 866 GW in 2015 and to 1 332 GW in 2030. The 4 000 MW Huaneng Yuhuan power plant in Zhejiang province (Eastern China) with its four ultra-supercritical units is the world's largest coal-fired plant using this technology. It has a target efficiency of more than 45% (LHV). China also has, however, a very large number of small-scale subcritical power plants. 78% of the total electricity supply in 2006 was from coal-fired power plants. The average coal consumption of plants in China is more than 50 gce/kWh higher than for state-of-the-art USC units – this is equivalent to using 100 Mtce a year more than could be achieved with the best available technologies. China is the world's largest coal consumer, and if Chinese plants were as efficient as the average plant in Japan, coal demand would be 21% less in China.

Table I.21 shows emissions relative to electricity generation at China's coal-fired plants. The expected introduction of large numbers of supercritical and ultra-supercritical plants, along with the retirement of older small-capacity units, is expected to improve average efficiency from 32% in 2005 to 39% in 2030, and should reduce specific emissions by 19% in 2030 compared to 2006.

Table I.21: Coal-fired electricity generation and CO_2 emissions in China

Reference scenario	1990	2006	2015	2030
Generation (TWh)	471	2 328	4 445	6 335
Capacity GW	87	449	866	1 332
CO_2 (Mt)	598	2 758	4 542	6 055
Emissions ratio ($MtCO_2$/TWh)	1.27	1.18	1.02	0.96

Source: IEA World Energy Outlook 2008.

In 2005, the average efficiency of hard coal-fired power plants ranged from less than 30% in India, 33% in China to 42% in Japan. The average efficiency of hard coal-fired plants in the United States has not changed significantly over the last 30 years, while the efficiency of plants in Western Europe and China has increased by about 6 percentage points. Relatively low coal prices in the United States provide little economic incentive to invest in more-efficient technology.

The current efficiency of most coal-fired power plants is well below the levels that are now possible – and there is much potential for significant efficiency improvements in state-of-the-art technologies. Efficiency gains can be realised by improving existing plants or by installing new-generation technology. The decision to retrofit or replace an existing plant depends on the efficiency and age of the stock. The younger the plant, the more economical it is to retrofit. The efficiency of power plants also depends on the quality of their fuel (especially in the case of coal), the environmental standards that they must meet and their operation mode. All else being equal, power plants using high-ash, high-moisture coal (such as those used in India) have a lower efficiency than plants using low-ash, low-moisture coal. The cleaning of flue gases requires energy, and therefore reduces power plant efficiency. Running plants below their rated output, a common practice in market-driven electricity supply systems, can also reduce plant efficiency.

Pulverised-coal combustion (PCC) accounts for about 97% of the world's coal-fired capacity. Improving the efficiency of PCC plants has been the focus of considerable efforts by the industry as it seeks to stay competitive and to become more environmentally acceptable. PCC *subcritical* steam power plants, with steam pressure of around 180 bar, temperatures of 540°C and unit sizes up to 1 000 MWe, are commercially available and in use worldwide. The average net efficiency (after in-plant power consumption) of larger subcritical plants burning higher quality coal is between 35% and 36%. New subcritical units with conventional environmental controls operate closer to 39% efficiency. The overall efficiency of older, smaller PCC plants that burn low-quality coal, can be below 30%.

Supercritical steam-cycle plants with steam pressures of around 240 bar to 260 bar and temperatures of around 570°C have become the system of choice for new commercial coal-fired plants in many countries. Early supercritical units developed in Europe and the United States in the 1970s lacked operational flexibility and reliability and experienced maintenance problems. These difficulties have been overcome. In Europe and Japan, plants with supercritical steam operate reliably and economically at efficiencies in the range of 42% to 45% (HHV, net electrical output), and even higher in some favourable locations. *Ultra-supercritical* plants are supercritical pressure units with steam temperatures of typically 580°C and above.

Integrated coal gasification combined-cycle (IGCC) plants are a fundamentally different technology, and are not yet commercially available. A small number of plants that were initially built with public funding as demonstrators are operating, with the best one achieving 42% electrical efficiency. Future conventional coal-fired steam units and IGCC plants are expected to achieve efficiencies above 50% in demonstrator projects within ten years.

For coal with high ash and sulphur content, fluidised-bed combustion (FBC) in boilers operating at atmospheric pressure could be more efficient than PCC. FBC relies on two technologies: bubbling fluidised beds (BFBC) and circulating fluidised beds (CFBC), the latter being more commonly used for power generation applications. The power generation efficiency of CFBC units (200 MWe to 300 MWe) is generally comparable to that of PCC plants of the same size, because they use steam turbine cycles that operate under similar conditions. Larger CFBC units are under construction and have been designed to compete with the performance of comercial PCC units.

Brown coal (lignite) is expected to increase its contribution to coal supply in some countries. It has a higher water content than hard coal, a lower heating value, and different boiler requirements. The optimal technology choice for hard coal and lignite may differ, as the availability and price of different coal types affects the power generation technology choice.

Age profile of the capital stock

The age of a coal-fired generation plant has a considerable impact on the potential for CO_2 emission reductions. Outage rates for coal-fired plants are generally about 5% for plants that are 10 to 20 years old. Unless the plant is refurbished, the rate increases to 20% for plants that are 40 years old. In the United States, re-powering projects for existing coal-fired plants have significantly extended plant lifetimes and in certain cases have resulted in substantial efficiency improvements. China is planning to re-power existing plants by introducing CFBC steam boilers and by replacing pulverised coal subcritical boilers with supercritical plants. Measures to reduce pollutant emissions may also be detrimental to boiler life. Electricity-market liberalisation has brought more start-up and shut-down cycles than were contemplated in original plant designs, which has considerably reduced boiler life (Paterson and Wilson, 2002).

Given a lifespan of 40 to 60 years for coal-fired plants, retrofits may be considered to improve performance. In China, the bulk of coal-fired power plant stock is under 15 years old, so retrofitting existing stock may be a good option, as it may be in the United Kingdom, where 30-year old plants may be subject to life extensions. In Germany, about one-third of the stock is under 15 years old, and may be suitable for retrofitting, as in India where plants are on average 20 years old. Construction of coal-fired stock in the United States peaked around 1970. Many of these plants will have to be replaced between 2010 and 2030 and may not therefore be candidates for retrofitting. Our scenario analysis indicates that at around USD 25 per tonne of CO_2, old plants may have higher operation costs than the total costs of a new plant with CCS.

CO_2 emissions

A comparison of average efficiencies with those of the best available power plants (as shown in Table I.22) shows that fuel consumption and CO_2 emissions could be reduced considerably if the best available technologies were employed for retrofitting existing power plants.

More information on designs for high efficiency and the potential of efficiency improvements can be found in the recent IEA publication, *Fossil-Fuel-Fired Power Generation: case studies of recently constructed coal- and gas-fired plants* (2007).

Efficiency improvements can significantly reduce CO_2 and other emissions. For a power plant with an efficiency of 30%, an increase in efficiency to 45% brings about a 33% decrease in fuel use and CO_2 emissions. Improvements in the average efficiency of coal-fired power plants are already feasible. Two-thirds of all coal-fired plants are over 20 years old. Such plants have an average efficiency of 29% or lower, and emit at least 3.9 Gt CO_2 per year. If all of these were replaced by plants with efficiencies of 45%, CO_2 emissions would be reduced by 1.4 Gt per year.

Efficiency improvements also have the potential to reduce emissions of sulphur dioxide and, in certain cases, oxides of nitrogen (NO_X). Natural gas, combined-cycle plants have the lowest CO_2 emissions of all fossil fuel-based technologies, because of the low carbon intensity of natural gas and the high efficiency of the plants (Figure I.12).

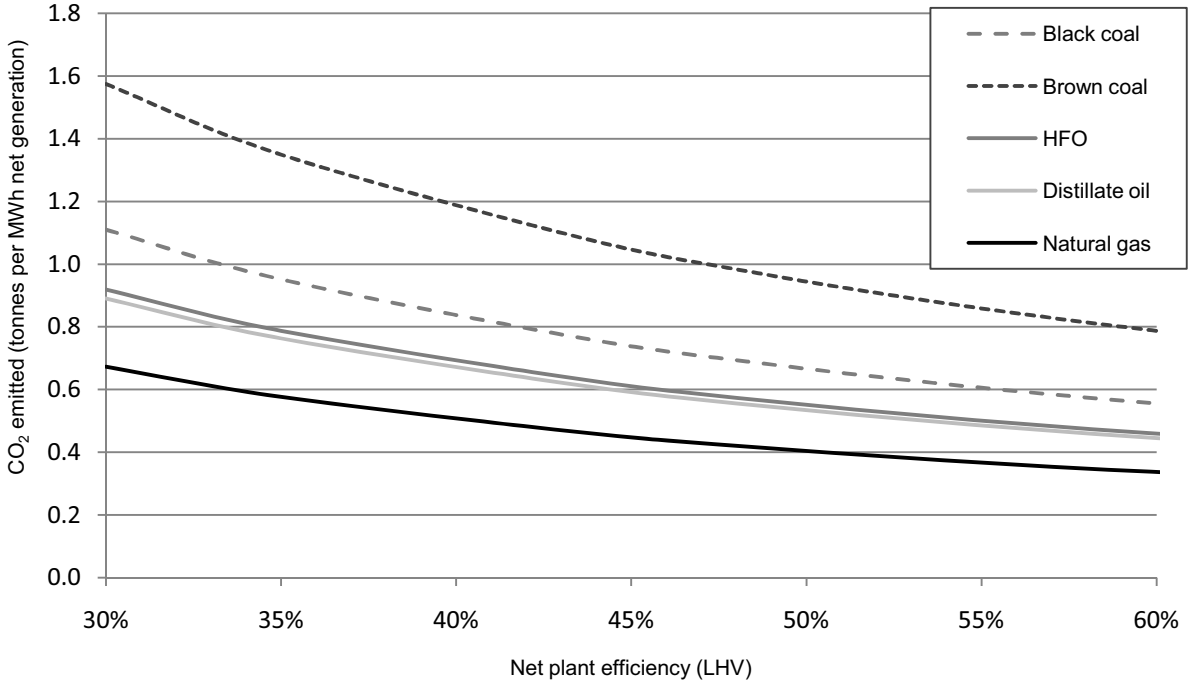
Table I.22: Performance summary for different fossil-fuel-fired plants

Plant type		**PCC**	**PCC**	**PCC**	**PCC**	**NGCC**	**IGCC**
Fuel		Hard coal	Hard coal	Hard coal	Hard coal	Natural gas	Hard coal
Steam cycle		Sub critical	Typical super-critical	Ultra-super-critical (best available)	Ultra-super-critical (AD700)	Triple pressure reheat	Triple pressure reheat
Steam conditions		180 bar 540 ˚C 540 ˚C	250 bar 560 ˚C 560 ˚C	300 bar 600 ˚C 620 ˚C	350 bar 700 ˚C 700 ˚C	124 bar 566 ˚C 566 ˚C	124 bar 563 ˚C 563 ˚C
Gross output	MW	500	500	500	500	500	500
Auxiliary power	MW	42	42	44	43	11	67
Net output	MW	458	458	456	457	489	433
Gross efficiency	%	43.9	45.9	47.6	49.9	59.3	50.9
Net efficiency	%	40.2	42.0	43.4	45.6	58.1	44.1
CO_2 emitted	t/h	381	364	352	335	170	321
Specific CO_2 emitted	t/MWh net	0.83	0.80	0.77	0.73	0.35	0.74

Notes: AD700 is an EU development programme aimed at achieving >50% efficiency from coal-fired power plants with steam temperatures of around 700ºC by 2015. Data for IGCC is similarly based on target performance.

Source: Loyd, 2007.

Figure I.12: The impact of fuel type and efficiency on the CO_2 emissions of power plants



Source: Loyd, 2007.

Key point: CO_2 emissions per MWh net generated decrease by 50% when net plant efficiency is doubled.

Technology status development

Advanced steam cycles

Supercritical and ultra-supercritical plants are defined by the steam temperatures at which they operate. Supercritical plants use steam temperatures of 540°C and above, while ultra-supercritical plants typically use steam at 580°C and above. Supercritical steam-cycle technology has been used in IEA countries for several decades. Typically, a switch from supercritical to ultra-supercritical steam conditions would raise efficiency by another 4 percentage points. Overall, the efficiency of ultra-supercritical pressure units could be in the range of 50% to 55% by 2020, expressed on a lower heating value basis.

Supercritical technology is already used in a number of countries. In China, more than 18 GW of supercritical units were installed in 2006. There are ultra-supercritical plants in operation in Japan, Denmark and Germany. Ultra-supercritical units operating at temperatures of 700°C and higher are still in the RD&D phase. They will need to use nickel-based super alloys for some components. These are already used in gas turbines, but larger components are needed for steam boilers, piping, valves and turbines, and the operating environment is different. International programmes such as the EC-supported AD700 project and the associated COMTES700 demonstration in Germany, as well as national programmes such as COORETEC in Germany, are seeking to develop the necessary materials and components.

Because of fuel savings, the total investment cost for ultra-supercritical steam-cycle plants can be 12% to 15% higher than the cost of a subcritical plant and still be competitive. The balance-of-plant cost is 13% to 16% lower in an ultra-supercritical plant, because of reduced coal handling and reduced flue-gas treatment. The boiler and steam turbine costs can be as much as 40% to 50% higher for an ultra-supercritical plant. Studies in the United States of supercritical coal power plants indicate a relatively low learning rate of 5% for the capital cost.

In power plants based on steam cycles, the introduction of coal drying for lignite may improve efficiency by up to 4 percentage points. This technology is expected to be commercial by 2010.

The major barriers to advances in supercritical and ultra-supercritical steam cycles concern metallurgical and control problems. Developments in new steels for water and steam boiler tubes and in high-alloy steels that minimise corrosion are expected to result in a dramatic increase in the number of supercritical plants installed over the next few years. New control equipment and strategies will also allow these plants to be more flexible than in the past.

Fluidised bed combustion (FBC)

Two parallel paths have so far been pursued in FBC development – bubbling (BFBC) and circulating (CFBC) beds. Another promising option, particularly for CO_2 capture, is a circulating fluidised bed (CFB) power plant working with recycled flue gas and oxygen instead of air. In this case, solids are cooled down before their return to the bed. Consequently, the temperature can be controlled more effectively. This could lead to a significant reduction in flue-gas recirculation, thereby reducing both investment and operating costs.

There are hundreds of atmospheric CFBC units operating worldwide, including a number of plants as large as 250 MWe to 300 MWe. Fluidised beds are particularly suited to the combustion of low-quality coals and most of the existing CFBC plants burn such materials. Moving to supercritical cycles is a logical step for very large CFBC units. A 460 MWe supercritical unit is under construction at Lagisza, Poland, and is due for start-up at the beginning of 2009. This unit is expected to have a thermal efficiency of 43%. Designs for even larger 600 MWe supercritical CFBC units have also been developed.

FBC can also be employed at high pressure, in which case the boiler exhaust gases can be used to generate additional power by expanding them through a gas turbine. Heat is also recovered from the exhaust of the turbine. This approach has been applied in demonstrations at a small number of locations, but is not commercial. The result is a form of combined gas and steam cycle that gives efficiencies of up to around 44%. The first of such units had a capacity of about 80 MW, but two larger units are operating in Karita and Osaki, Japan, the former using supercritical steam.

Second-generation pressurised FBC cycles (such as hybrid systems incorporating higher-temperature turbines with supplementary firing of coal-derived gas after the combustor) have been considered in some locations, including Japan, but their development is unlikely.

Further work is required to understand the oxyfuel combustion conditions to further clarify the mechanisms involved in pollutant formation and carbonation due to high CO_2 concentrations. Design considerations, particularly for supercritical boilers, are also important areas of research. It is also necessary to learn more about fuel flexibility and options for cost-effective CO_2 sequestration.

Integrated gasification combined-cycle

Integrated gasification combined-cycle (IGCC) technology (Maurstad, 2005) comprises four basic steps:

- Fuel gas is generated from the partial combustion of solid fuels such as coal at pressure in a limited supply of air or oxygen;
- Particulates, sulphur and nitrogen compounds are removed;
- The clean fuel gas is combusted in a gas turbine generator to produce electricity;
- The residual heat in the hot exhaust gas from the gas turbine is recovered in a heat-recovery steam generator – the steam is used to produce additional electricity in a steam turbine generator.

IGCC systems are among the cleanest and potentially the most efficient of the coal technologies. Gasification technologies can process all carbonaceous feedstocks, including coal, petroleum coke, residual oil, biomass and municipal solid waste. There are seventeen (totalling 4 000 MWe) IGCC plants operating in the world today – of which five are using coal alone (IEA CCC, 2007).

The net efficiency of existing coal-fired IGCC plants is around 40% to 43%. Recent gas turbines would enable this to be improved, and future developments should take efficiencies beyond 50%. The investment cost of IGCC is about 20% higher than that of PCC. There is, however, more uncertainty in IGCC costs, as there are no recently built coal-fuelled IGCC plants and the existing ones were originally constructed as demonstrations. Availabilities have also not yet reached the demonstrated level of operating PCC units. Suppliers have plans to bring capital costs within 10% of that of PCC.

IGCC reference plant designs of 600 MWe have been developed by supplier groupings to encourage market uptake by driving down costs and providing turnkey IGCC plants. This is aimed at facilitating planning and decision making for power producers. Examples are those from GE-Bechtel and Siemens with ConocoPhillips. With IGCC now offered as a commercial package, new orders could follow as utilities see the cost decreasing and availability improving. Subsidies or incentives may still be necessary to cover the higher cost compared with PCC.

IGCC fits well with CCS, and there are CCS projects planned in several countries – including Canada, Australia, Germany and the United Kingdom. Further programmes are being pursued through the United States DOE FutureGen, European Commission initiatives and the GreenGen project in China. Inclusion of CCS will reduce efficiency, but the generation cost may be lower than for CO_2 capture on PCC.

Major R&D efforts are ongoing in the field of gasification systems, gas turbines and oxygen production. Research is being carried out to improve efficiency and availability and to reduce capital and operating costs. R&D is focusing on hot gas clean-up, development of large-scale gasifiers of 1 200 MWth to 1 500 MWth for a single train configuration (ZEP, 2006), novel air separation technologies, improved coal feeding systems, improved slag and fly-ash removal systems, system optimisation, and the integration of fuel cells.[3] Cogeneration of electricity and other products, such as hydrogen or other transport fuels, is also being considered.

CO_2 capture and storage (CCS)

Energy Technology Perspectives 2008 includes an analysis on CO_2 capture and storage which is also discussed in greater detail in the specialised IEA publication *CO_2 Capture and Storage: A Key Carbon Abatement Option.*

Natural gas

Power generation efficiency for gas-fired plants is further addressed in *Energy Technology Perspectives 2008.*

3. Existing technologies for the removal of contaminants from the generated syngas (before it is fed to the turbine) require significant cooling of the gas. Hot gas cleanup would significantly improve efficiency. Warm gas cleanup is also being explored as an option that could provide most of the benefits of hot gas cleanup while avoiding sorbent attrition costs that render hot gas cleanup uneconomic.

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PART II

WORLD COAL OVERVIEW

1. PRODUCTION

Table 1.1: World hard coal production[1]

(thousand tonnes)

	1973	1980	1985	1990	1995	2000	2004	2005	2006	2007	2008e
Australia[2]	55483	71610	122346	158572	191055	239429	285854	300190	299715	323770	325406
Austria	-	-	-	-	1	-	-	-	-	-	-
Belgium[2]	10362	8018	7666	2357	637	375	181	109	29	-	-
Canada	12337	20173	34310	37673	38621	33805	29262	29086	29900	32811	33198
Czech Republic[3]	27780	27721	26401	14383	10824	8136	7316	7136	7748	7674	7512
France	26350	20190	17055	11199	8495	3804	872	617	452	380	277
Germany	104407	94492	88849	76553	58858	37376	29151	28018	23762	24185	19143
Hungary	1186	883	592	169	-	-	-	-	-	-	-
Ireland	64	60	57	25	1	-	-	-	-	-	-
Italy	-	-	-	58	-	-	98	95	21	158	120
Japan	25090	18027	16381	7979	6317	2964	-	-	-	-	-
Korea	13571	18625	22543	17217	5720	4150	3191	2832	2824	2886	2773
Mexico[2]	2578	3089	5193	6933	9320	11344	9882	10755	11487	12514	11478
Netherlands	1829	-	101	-	-	-	-	-	-	-	-
New Zealand[2]	2325	1930	2279	2424	3214	3643	4916	5021	5516	4574	4655
Norway	415	288	507	303	292	632	2904	1471	2395	3995	3282
Poland	156630	193121	191642	147736	137166	103331	101230	97904	95223	88312	84332
Portugal[2]	221	177	237	281	-	-	-	-	-	-	-
Spain	9991	12838	16091	14612	13497	11317	8911	8548	8353	7873	7304
Sweden	12	18	13	11	-	-	-	-	-	-	-
Turkey	4642	3598	3605	2745	2248	2392	1946	2170	2319	2462	2631
United Kingdom	131985	130097	94111	92762	53037	31198	25096	20498	18517	17007	16510
United States[2]	530064	710178	735935	853647	858627	893972	943343	962440	991473	981690	1006560
IEA Total	**1114744**	**1332044**	**1380721**	**1440706**	**1388610**	**1376524**	**1444271**	**1466135**	**1488247**	**1497777**	**1513703**
OECD Total	**1117322**	**1335133**	**1385914**	**1447639**	**1397930**	**1387868**	**1454153**	**1476890**	**1499734**	**1510291**	**1525181**
Algeria	333	3	23	-	-	-	-	-	-	-	-
Botswana	-	-	437	794	898	948	897	967	1000	1038	1036
Dem. Rep. of Congo	130	138	121	126	93	96	108	120	124	128	116
Egypt	-	-	-	-	-	58	33	25	25	25	24
Morocco	565	680	775	526	650	31	24	12	4	-	-
Mozambique	394	207	35	40	38	16	17	3	41	24	25
Nigeria	327	176	140	90	20	3	3	8	8	8	8
South Africa	62352	115120	173500	174800	206211	224200	242821	244986	244774	247666	235750
United Rep. of Tanzania	-	1	15	4	44	79	65	75	80	85	68
Zambia	940	570	511	377	152	194	233	245	260	276	168
Zimbabwe	2806	2768	3104	5345	4693	4260	3415	3621	3447	3237	3748
Other Africa	160	196	317	332	344	585	714	678	682	715	968
Argentina	451	390	400	276	305	259	51	25	141	110	164
Brazil	1015	1748	1661	637	240	159	341	528	219	228	664
Chile	1374	1125	1291	2183	1038	366	233	544	674	243	424
Colombia	2834	4164	8766	21375	25651	38242	54184	59064	65596	69902	78612
Peru	33	41	127	97	51	17	22	43	107	112	128
Venezuela	50	42	40	2189	4064	7885	6748	7195	7338	7647	8792

Table 1.1: World hard coal production[(1)] (continued)

(thousand tonnes)

	1973	1980	1985	1990	1995	2000	2004	2005	2006	2007	2008e
India	76588	111000	150468	211184	268280	311428	380072	404461	428247	454356	489476
Indonesia	149	304	1852	6814	35547	62784	118248	143601	195789	230248	246159
DPR of Korea	23198	34106	40000	35693	23700	22500	24371	26864	27161	23861	28552
Malaysia	-	-	-	100	121	346	344	802	1062	1075	1064
Mongolia	-	-	480	595	1290	70	96	105	357	301	1104
Myanmar	10	11	43	40	12	468	839	993	1019	1075	992
Nepal	-	-	-	-	6	17	9	9	9	9	12
Pakistan	1143	1569	2238	2745	3638	3095	4587	4871	3643	4124	3425
Philippines	39	325	1261	1226	1287	1351	2477	2877	2353	3398	2356
Chinese Taipei	3327	2574	1858	472	235	83	-	-	-	-	-
Thailand	-	-	-	-	5	-	-	-	-	-	-
Vietnam	2990	5200	5594	4638	8350	11609	25500	32396	38910	42546	39940
Other Asia	117	511	151	108	74	277	354	418	436	494	2032
PR of China	417000	620150	837272	1050734	1343004	1231232	1955986	2158908	2320207	2466428	2761391
Bulgaria	351	267	223	143	194	118	33	9	27	215	193
Romania	7172	8060	8657	4446	359	281	-	-	-	-	-
Croatia	x	x	x	156	75	-	-	-	-	-	-
Serbia	x	x	x	137	55	88	72	-	-	-	-
Former Yugoslavia	576	388	400	x	x	x	x	x	x	x	x
Georgia	x	x	x	1103	34	7	8	5	9	14	12
Kazakhstan	x	x	x	128000	80754	74886	83065	82788	92010	93538	104417
Kyrgyzstan	x	x	x	1495	183	104	49	49	45	37	182
Russia	x	x	x	237514	162411	152538	189758	209213	210418	217878	247082
Tajikistan	x	x	x	475	14	9	78	84	90	150	84
Ukraine	x	x	x	143483	74002	61601	59129	60007	61439	58739	59348
Uzbekistan	x	x	x	200	74	69	-	-	-	-	-
Former USSR	510600	553000	569000	x	x	x	x	x	x	x	x
Islam. Rep. of Iran	903	925	1106	835	1084	1246	1220	1330	1529	1634	1560
Non OECD Total	**1117927**	**1465759**	**1811866**	**2041527**	**2249280**	**2213605**	**3156204**	**3447929**	**3709280**	**3931564**	**4320076**
World	**2235249**	**2800892**	**3197780**	**3489166**	**3647210**	**3601473**	**4610357**	**4924819**	**5209014**	**5441855**	**5845257**

Source: *IEA/OECD Energy Statistics of OECD Countries* , *IEA/OECD Energy Statistics of Non-OECD Countries*

(1) Hard coal represents higher grade coal and includes coking coal, anthracite and bituminous coal. For further information, see *Principles and Definitions* .

(2) Includes sub-bituminous coal.

(3) In the 2008 edition, the Czech Administration changed the classification between bituminous coal, sub-bituminous coal and lignite for 1990 onwards.

Table 1.2: World coking coal production

(thousand tonnes)

	1978	1980	1985	1990	1995	2000	2004	2005	2006	2007	2008e
Australia	37668	40086	54835	64631	79375	103750	116932	128310	123989	141845	140108
Belgium	3805	4036	3484	-	-	-	-	-	-	-	-
Canada	13780	14151	24371	27660	28624	28164	25509	26613	26000	27988	27942
Czech Republic	18553	17403	16465	14383	10824	8136	7316	7136	7748	7674	7512
France	4664	4114	3388	1821	439	-	-	-	-	-	-
Germany	52239	56036	51401	44577	31686	18862	16635	15171	13113	13753	10554
Hungary	861	883	592	169	-	-	-	-	-	-	-
Japan	8659	6943	3921	-	-	-	-	-	-	-	-
Mexico	3085	3089	3713	2963	1645	2214	1735	1792	1914	2058	1889
New Zealand	11	173	319	578	1553	1644	2468	2446	2766	1923	2353
Norway	227	160	174	-	-	-	-	-	-	-	-
Poland	40845	31495	31143	28793	28714	17222	16525	14071	14573	13636	12024
Spain	1800	1333	907	279	-	-	-	-	-	-	-
Turkey	2964	2435	2247	1824	929	735	664	648	631	684	1615
United Kingdom	15110	10050	2608	1600	599	255	352	274	266	266	307
United States	92201	117716	89463	93259	77166	54287	44222	46444	44599	47307	57367
IEA Total	**293387**	**307014**	**285318**	**279574**	**259909**	**233055**	**230623**	**241113**	**233685**	**255076**	**259782**
OECD Total	**296472**	**310103**	**289031**	**282537**	**261554**	**235269**	**232358**	**242905**	**235599**	**257134**	**261671**
Algeria	-	3	23	-	-	-	-	-	-	-	-
South Africa	9718	10605	11142	9308	10165	3204	1247	1640	1584	1608	1531
United Rep. of Tanzania	-	-	-	1	1	-	-	-	-	-	-
Zimbabwe	946	991	269	612	621	813	651	690	657	617	714
Brazil	1317	1545	1407	499	106	15	214	210	136	144	419
Colombia	705	716	745	775	681	587	525	514	517	522	1348
India	13938	18055	25847	36088	28803	22088	22422	23584	23747	25581	27586
Indonesia	-	-	103	286	1767	4114	9231	10702	24484	29264	31286
DPR of Korea	3415	3836	2500	2543	-	-	-	-	-	-	-
Mongolia	-	-	-	-	-	-	-	-	228	153	634
Chinese Taipei	-	-	107	3	-	-	-	-	-	-	-
Other Asia	-	-	-	-	-	-	-	-	-	-	29
PR of China	52604	68222	68370	85657	148015	123969	225697	280648	338972	379135	427437
Romania	2134	1828	3825	1482	349	13	-	-	-	-	-
Georgia	x	x	x	574	-	-	-	-	-	-	-
Kazakhstan	x	x	x	29983	12756	10687	11018	10981	12204	12407	13850
Russia	x	x	x	85458	55645	51035	61143	55505	54027	57441	65140
Tajikistan	x	x	x	-	7	-	-	-	-	-	-
Ukraine	x	x	x	62283	25783	27844	26179	23166	23051	21534	21757
Former USSR	139250	143534	134985	x	x	x	x	x	x	x	x
Islam. Rep. of Iran	678	842	1006	760	914	910	810	930	1025	1039	992
Non OECD Total	**224705**	**250177**	**250329**	**316312**	**285613**	**245279**	**359137**	**408570**	**480632**	**529445**	**592723**
World	**521177**	**560280**	**539360**	**598849**	**547167**	**480548**	**591495**	**651475**	**716231**	**786579**	**854394**

Source: *IEA/OECD Energy Statistics of OECD Countries* , *IEA/OECD Energy Statistics of Non-OECD Countries*

Table 1.3: World steam coal production[1]

(thousand tonnes)

	1973	1980	1985	1990	1995	2000	2004	2005	2006	2007	2008e
Australia[2]	55483	31524	67511	93941	111680	135679	168922	171880	175726	181925	185298
Austria	-	-	-	-	1	-	-	-	-	-	-
Belgium[2]	10362	3982	4182	2357	637	375	181	109	29	-	-
Canada	12337	6022	9939	10013	9997	5641	3753	2473	3900	4823	5256
Czech Republic[3]	27780	10318	9936	-	-	-	-	-	-	-	-
France	26350	16076	13667	9378	8056	3804	872	617	452	380	277
Germany	104407	38456	37448	31976	27172	18514	12516	12847	10649	10432	8589
Hungary	1186	-	-	-	-	-	-	-	-	-	-
Ireland	64	60	57	25	1	-	-	-	-	-	-
Italy	-	-	-	58	-	-	98	95	21	158	120
Japan	25090	11084	12460	7979	6317	2964	-	-	-	-	-
Korea	13571	18625	22543	17217	5720	4150	3191	2832	2824	2886	2773
Mexico[2]	2578	-	1480	3970	7675	9130	8147	8963	9573	10456	9589
Netherlands	1829	-	101	-	-	-	-	-	-	-	-
New Zealand[2]	2325	1757	1960	1846	1661	1999	2448	2575	2750	2651	2302
Norway	415	128	333	303	292	632	2904	1471	2395	3995	3282
Poland	156630	161626	160499	118943	108452	86109	84705	83833	80650	74676	72308
Portugal[2]	221	177	237	281	-	-	-	-	-	-	-
Spain	9991	11505	15184	14333	13497	11317	8911	8548	8353	7873	7304
Sweden	12	18	13	11	-	-	-	-	-	-	-
Turkey	4642	1163	1358	921	1319	1657	1282	1522	1688	1778	1016
United Kingdom	131985	120047	91503	91162	52438	30943	24744	20224	18251	16741	16203
United States[2]	530064	592462	646472	760388	781461	839685	899121	915996	946874	934383	949193
IEA Total	**1114744**	**1025030**	**1095403**	**1161132**	**1128701**	**1143469**	**1213648**	**1225022**	**1254562**	**1242701**	**1253921**
OECD Total	**1117322**	**1025030**	**1096883**	**1165102**	**1136376**	**1152599**	**1221795**	**1233985**	**1264135**	**1253157**	**1263510**
Algeria	333	-	-	-	-	-	-	-	-	-	-
Botswana	-	-	437	794	898	948	897	967	1000	1038	1036
Dem. Rep. of Congo	130	138	121	126	93	96	108	120	124	128	116
Egypt	-	-	-	-	-	58	33	25	25	25	24
Morocco	565	680	775	526	650	31	24	12	4	-	-
Mozambique	394	207	35	40	38	16	17	3	41	24	25
Nigeria	327	176	140	90	20	3	3	8	8	8	8
South Africa	62352	104515	162358	165492	196046	220996	241574	243346	243190	246058	234219
United Rep. of Tanzania	-	1	15	3	43	79	65	75	80	85	68
Zambia	940	570	511	377	152	194	233	245	260	276	168
Zimbabwe	2806	1777	2835	4733	4072	3447	2764	2931	2790	2620	3034
Other Africa	160	196	317	332	344	585	714	678	682	715	968
Argentina	451	390	400	276	305	259	51	25	141	110	164
Brazil	1015	203	254	138	134	144	127	318	83	84	245
Chile	1374	1125	1291	2183	1038	366	233	544	674	243	424
Colombia	2834	3448	8021	20600	24970	37655	53659	58550	65079	69380	77264
Peru	33	41	127	97	51	17	22	43	107	112	128
Venezuela	50	42	40	2189	4064	7885	6748	7195	7338	7647	8792

Table 1.3: World steam coal production[1] (continued)
(thousand tonnes)

	1973	1980	1985	1990	1995	2000	2004	2005	2006	2007	2008e
India	76588	92945	124621	175096	239477	289340	357650	380877	404500	428775	461890
Indonesia	149	304	1749	6528	33780	58670	109017	132899	171305	200984	214873
DPR of Korea	23198	30270	37500	33150	23700	22500	24371	26864	27161	23861	28552
Malaysia	-	-	-	100	121	346	344	802	1062	1075	1064
Mongolia	-	-	480	595	1290	70	96	105	129	148	470
Myanmar	10	11	43	40	12	468	839	993	1019	1075	992
Nepal	-	-	-	-	6	17	9	9	9	9	12
Pakistan	1143	1569	2238	2745	3638	3095	4587	4871	3643	4124	3425
Philippines	39	325	1261	1226	1287	1351	2477	2877	2353	3398	2356
Chinese Taipei	3327	2574	1751	469	235	83	-	-	-	-	-
Thailand	-	-	-	-	5	-	-	-	-	-	-
Vietnam	2990	5200	5594	4638	8350	11609	25500	32396	38910	42546	39940
Other Asia	117	511	151	108	74	277	354	418	436	494	2003
PR of China	417000	551928	768902	965077	1194989	1107263	1730289	1878260	1981235	2087293	2333954
Bulgaria	351	267	223	143	194	118	33	9	27	215	193
Romania	7172	6232	4832	2964	10	268	-	-	-	-	-
Croatia	x	x	x	156	75	-	-	-	-	-	-
Serbia	x	x	x	137	55	88	72	-	-	-	-
Former Yugoslavia	576	388	400	x	x	x	x	x	x	x	x
Georgia	x	x	x	529	34	7	8	5	9	14	12
Kazakhstan	x	x	x	98017	67998	64199	72047	71807	79806	81131	90567
Kyrgyzstan	x	x	x	1495	183	104	49	49	45	37	182
Russia	x	x	x	152056	106766	101503	128615	153708	156391	160437	181942
Tajikistan	x	x	x	475	7	9	78	84	90	150	84
Ukraine	x	x	x	81200	48219	33757	32950	36841	38388	37205	37591
Uzbekistan	x	x	x	200	74	69	-	-	-	-	-
Former USSR	510600	409466	434015	x	x	x	x	x	x	x	x
Islam. Rep. of Iran	903	83	100	75	170	336	410	400	504	595	568
Non OECD Total	**1117927**	**1215582**	**1561537**	**1725215**	**1963667**	**1968326**	**2797067**	**3039359**	**3228648**	**3402119**	**3727353**
World	**2235249**	**2240612**	**2658420**	**2890317**	**3100043**	**3120925**	**4018862**	**4273344**	**4492783**	**4655276**	**4990863**

Source: *IEA/OECD Energy Statistics of OECD Countries* , *IEA/OECD Energy Statistics of Non-OECD Countries*

(1) Steam coal is also commonly known as thermal coal. It includes anthracite and bituminous coal. For further information, see *Principles and Definitions* .

(2) Includes sub-bituminous coal.

(3) In the 2008 edition, the Czech Administration changed the classification between bituminous coal, sub-bituminous coal and lignite for 1990 onwards.

Table 1.4: World brown coal production[(1)]

(thousand tonnes)

	1973	1980	1985	1990	1995	2000	2004	2005	2006	2007	2008e
Australia	24121	32894	38380	45990	50752	67293	66343	67152	67737	65613	72400
Austria	3328	2865	3081	2448	1297	1249	235	-	-	-	-
Canada[(2)]	8135	16515	26543	30659	36360	35358	36735	36259	36104	35635	34908
Czech Republic[(2)]	75965	89086	94636	87015	64077	57026	56760	54890	55164	54952	52676
France	2764	2560	1839	2333	1401	296	-	-	-	-	-
Germany	366409	389726	434037	357468	192756	167691	181926	177907	176321	180409	175313
Greece	13301	23198	35888	51896	57662	63887	70041	69398	64787	66308	65720
Hungary[(2)]	25925	25142	23500	17332	14772	14033	11242	9570	9952	9818	9404
Italy	1190	1286	1892	956	172	14	-	-	-	-	-
Japan	100	27	-	-	-	-	-	-	-	-	-
New Zealand	143	208	247	161	231	213	239	246	251	260	253
Poland	39215	36866	57746	67584	63547	59484	61198	61636	60844	57538	59570
Slovak Republic	5804	5796	5731	4766	3759	3648	2952	2511	2201	2111	2423
Spain[(2)]	3003	15454	23572	21070	14808	12154	11576	10933	10094	9309	2896
Turkey[(2)]	7754	15027	36392	44683	52825	60876	44431	56170	61936	72902	73124
United States	12948	42783	65701	79914	78471	77619	75786	76151	76429	71291	68659
IEA Total	**590105**	**699433**	**849185**	**814275**	**632890**	**620841**	**619464**	**622823**	**621820**	**626146**	**617346**
OECD Total	**590105**	**699433**	**849185**	**814275**	**632890**	**620841**	**619464**	**622823**	**621820**	**626146**	**617346**
Brazil	1324	3494	6051	3958	4959	6553	5065	5727	5669	5743	5817
Chile	61	40	35	-	-	-	-	-	-	-	-
India	3320	5110	8040	14074	22146	24247	30411	30228	31285	33980	32242
Indonesia	-	-	148	3672	5598	13820	24335	27110	30735	34516	38000
DPR of Korea	7000	10000	12000	10660	7600	7243	7340	7746	7946	6478	8956
Mongolia	-	-	6043	6562	3729	5115	6769	7412	7945	9090	9012
Myanmar	-	27	43	38	23	112	213	367	393	414	328
Philippines	-	-	4	3	3	3	3	3	3	3	-
Thailand	361	1525	5188	12421	18416	17708	20060	20878	19001	18239	17568
Vietnam	-	-	-	-	-	-	-	-	-	1802	1802
Other Asia	2206	3985	-	-	-	-	-	-	-	-	-
Albania	811	1420	2150	2071	80	30	109	92	92	92	116
Bulgaria	26459	29946	30657	31532	30636	26314	26452	24686	25651	28418	28744
Romania	17679	27104	37924	33737	40762	29004	31792	31106	34923	35780	34734
Bosnia and Herzegovina	x	x	x	19670	1640	7439	8884	9119	10137	10579	9540
Croatia	x	x	x	18	7	-	-	-	-	-	-
F.Y.R. of Macedonia	x	x	x	6644	7249	7516	7245	6881	6639	6509	5040
Serbia	x	x	x	45800	40540	37006	41085	35100	36780	37148	37447
Slovenia	x	x	x	5583	4884	4480	4809	4540	4522	4535	4519
Former Yugoslavia	31874	40913	68072	x	x	x	x	x	x	x	x
Estonia	x	x	x	22486	12433	11727	13993	14591	14095	16544	16193
Kazakhstan	x	x	x	3443	3740	2558	3810	3798	4221	4291	4271
Kyrgyzstan	x	x	x	2140	280	321	397	286	276	358	364
Russia	x	x	x	134385	83317	87786	69186	73668	74148	71143	76044
Tajikistan	x	x	x	450	27	13	15	15	15	15	12
Ukraine	x	x	x	9280	2296	802	460	354	232	186	289
Uzbekistan	x	x	x	6200	2980	2500	2699	3003	3126	3282	2400
Former USSR	157000	163000	157000	x	x	x	x	x	x	x	x
Israel	-	-	-	303	470	390	439	429	452	429	640
Non OECD Total	**248095**	**286564**	**333355**	**375130**	**293815**	**292687**	**305571**	**307139**	**318286**	**329574**	**334078**
World	**838200**	**985997**	**1182540**	**1189405**	**926705**	**913528**	**925035**	**929962**	**940106**	**955720**	**951424**

Source: *IEA/OECD Energy Statistics of OECD Countries* , *IEA/OECD Energy Statistics of Non-OECD Countries*

(1) Brown coal represents lower grade coal and includes lignite. For further information, see *Principles and Definitions* .

(2) Includes sub-bituminous coal.

Table 1.5: OECD production of coke oven coke[(1)]

(thousand tonnes)

	1973	1980	1985	1990	1995	2000	2004	2005	2006	2007	2008e
Australia	4983	4991	3603	4495	4617	3739	3801	3808	3634	3634	2457
Austria	1719	1729	1751	1725	1448	1385	1400	1388	1398	1424	1410
Belgium	7774	6048	5964	5420	3696	3104	2965	2856	2895	2607	2309
Canada	5370	5250	4684	3708	3283	3242	3340	3305	3199	3098	3039
Czech Republic	9383	8725	8328	7125	4963	3411	3548	3412	3428	3258	3399
Denmark	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	487	920	910	904	894	870	865	860
France	11881	11120	8691	7197	5566	5234	4542	4445	4689	4848	4488
Germany	41614	35492	30171	21926	11102	9115	8479	8397	8372	8441	8242
Greece	400	247	-	-	-	-	-	-	-	-	-
Hungary	1082	975	607	672	1033	937	664	614	921	1017	999
Iceland	-	-	-	-	-	-	-	-	-	-	-
Ireland	-	-	-	-	-	-	-	-	-	-	-
Italy	7665	8264	7410	6356	5185	4504	4062	4574	4688	4727	4486
Japan	52300	47463	48621	51118	44778	41220	41707	42645	43733	44437	42529
Korea	318	2965	5253	8800	10593	12288	10667	8935	9888	9926	10857
Luxembourg	-	-	-	-	-	-	-	-	-	-	-
Mexico	2021	2447	2924	2384	2148	2100	1971	2002	2048	2058	2074
Netherlands	2655	2455	2958	2736	2895	2127	2205	2238	2162	2163	2086
New Zealand	20	13	5	-	-	-	-	-	-	-	-
Norway	282	349	313	-	-	-	-	-	-	-	-
Poland	16938	19598	15828	13516	11578	8972	10097	8404	9613	10168	9501
Portugal	269	216	275	230	331	371	-	-	-	-	-
Slovak Republic	1500	1598	1909	2340	1861	1706	1883	1846	1856	1748	1735
Spain	4475	3900	3440	3211	2438	2470	2839	2662	2839	2742	2675
Sweden	533	1188	1203	1084	1149	1146	1372	1411	1188	1194	1176
Switzerland	-	-	-	-	-	-	-	-	-	-	-
Turkey	1251	1937	2711	3158	3131	2925	2990	2992	3213	3335	3893
United Kingdom	17776	10060	9276	8350	6274	6206	4335	4364	4629	4477	4359
United States	62803	41850	25992	25053	21545	18876	15340	15168	14881	14697	14194
IEA Europe	*127197*	*113901*	*100835*	*85533*	*63570*	*54523*	*52285*	*50497*	*52761*	*53014*	*51618*
OECD Europe	*127197*	*113901*	*100835*	*85533*	*63570*	*54523*	*52285*	*50497*	*52761*	*53014*	*51618*
IEA North America	*68173*	*47100*	*30676*	*28761*	*24828*	*22118*	*18680*	*18473*	*18080*	*17795*	*17233*
OECD North America	*70194*	*49547*	*33600*	*31145*	*26976*	*24218*	*20651*	*20475*	*20128*	*19853*	*19307*
OECD Pacific	*57621*	*55432*	*57482*	*64413*	*59988*	*57247*	*56175*	*55388*	*57255*	*57997*	*55843*
IEA Total	**252991**	**216433**	**188993**	**178707**	**148386**	**133888**	**127140**	**124358**	**128096**	**128806**	**124694**
OECD Total	**255012**	**218880**	**191917**	**181091**	**150534**	**135988**	**129111**	**126360**	**130144**	**130864**	**126768**

Source: *IEA/OECD Energy Statistics of OECD Countries*

(1) Solid product obtained from carbonization of coal, principally coking coal, used mainly in the iron and steel industry.
Also includes coke and semi-coke made from lignite.
For further information, see *Principles and Definitions*.

2. CONSUMPTION

Table 2.1: World hard coal consumption[1]

(thousand tonnes)

	1973	1980	1985	1990	1995	2000	2004	2005	2006	2007	2008e
Australia[2]	27292	34422	39980	49299	51739	60830	64909	72858	73591	72750	73217
Austria	2856	2871	3178	4159	3392	3724	4328	4054	4247	4200	3485
Belgium[2]	17169	17004	15576	16153	12394	11046	8382	7551	7183	6518	5783
Canada	17556	21361	21522	18886	15900	22503	18806	20451	21240	23258	12767
Czech Republic	27780	23937	22030	9941	6648	4972	4576	4370	4387	4141	5593
Denmark	3146	9669	11935	9992	11003	6641	7327	6293	9172	7908	7076
Finland	3035	5692	5318	5648	6540	5193	8082	4598	7612	7075	5027
France	40289	48080	36507	28791	22611	21801	20553	21142	19071	20190	19123
Germany	105801	96385	93466	86965	74224	68963	67922	63952	65538	70097	65530
Greece	651	545	1750	1380	1480	1121	776	563	463	710	403
Hungary	2137	1695	1043	971	1402	1280	1299	1341	1851	1965	1913
Iceland	1	12	69	65	65	101	104	117	108	138	109
Ireland	822	1066	1586	3198	2689	2944	2806	2870	2588	2377	2202
Italy	11603	17024	21894	21327	17446	18013	24280	24240	24798	25118	25477
Japan	81690	87699	109391	114960	133564	153190	180802	176974	179098	186983	185568
Korea[2]	16329	27790	42505	44776	44634	66548	79954	82272	84709	92044	104830
Luxembourg	305	346	199	197	217	171	129	111	153	109	74
Mexico[2]	2894	3973	5317	6881	10243	12290	14083	17556	17459	17482	13662
Netherlands	4794	5973	10276	14032	14660	12928	13551	13009	12648	13445	12796
New Zealand[2]	2317	1768	1810	2002	1938	1779	3490	3935	3909	2796	3251
Norway	772	951	1118	749	1018	1035	914	795	637	678	721
Poland	122097	163778	156570	120231	107823	83371	83915	80438	86130	85336	82995
Portugal[2]	805	604	1050	4397	5708	6154	5514	5476	5467	4742	4156
Slovak Republic	5834	5373	5809	5879	5330	4656	5151	4983	5148	5021	4799
Spain	13260	16531	25198	26047	27488	32804	33981	32948	29395	33090	24276
Sweden	1060	2138	4158	3709	3444	2861	3329	3070	3235	3192	2849
Switzerland	258	315	640	481	245	178	191	197	166	173	162
Turkey	4595	4630	6189	8146	8548	15526	18904	19421	22798	25350	22120
United Kingdom	133527	123610	105980	106722	75916	59868	60568	61779	67341	62865	57001
United States[2]	492567	608038	682608	736926	782788	892126	934614	953585	941276	955157	957101
IEA Europe	*502596*	*548217*	*531470*	*479115*	*410226*	*365250*	*376478*	*363201*	*380028*	*384300*	*353561*
OECD Europe	*502597*	*548229*	*531539*	*479180*	*410291*	*365351*	*376582*	*363318*	*380136*	*384438*	*353670*
IEA North America	*510123*	*629399*	*704130*	*755812*	*798688*	*914629*	*953420*	*974036*	*962516*	*978415*	*969868*
OECD North America	*513017*	*633372*	*709447*	*762693*	*808931*	*926919*	*967503*	*991592*	*979975*	*995897*	*983530*
OECD/IEA Pacific	*127628*	*151679*	*193686*	*211037*	*231875*	*282347*	*329155*	*336039*	*341307*	*354573*	*366866*
IEA total	**1140347**	**1329295**	**1429286**	**1445964**	**1440789**	**1562226**	**1659053**	**1673276**	**1683851**	**1717288**	**1690295**
OECD total	**1143242**	**1333280**	**1434672**	**1452910**	**1451097**	**1574617**	**1673240**	**1690949**	**1701418**	**1734908**	**1704066**

Table 2.1: World hard coal consumption[(1)] (continued)

(thousand tonnes)

	1973	1980	1985	1990	1995	2000	2004	2005	2006	2007	2008e
Algeria	63	93	1226	1005	632	689	988	898	948	938	1016
Botswana	-	-	466	815	912	1041	899	969	1031	1099	1036
Dem. Rep. of Congo	170	167	156	169	136	134	154	164	172	183	116
Egypt	477	894	1192	1340	1540	1820	1850	1777	1713	1708	1627
Kenya	70	16	90	151	96	66	108	89	120	110	130
Morocco	582	635	1110	1774	2665	4018	4656	4938	4926	5019	5218
Mozambique	587	288	106	58	56	-	-	-	-	9	-
Namibia	-	-	-	-	16	3	1	20	64	77	3
Nigeria	289	151	94	55	20	3	3	8	8	8	8
Senegal	-	-	-	-	-	-	127	152	167	183	195
South Africa	60408	86961	125870	124900	147205	157135	178995	175403	177880	183591	175928
United Rep. of Tanzania	-	1	15	4	44	79	65	75	80	85	68
Tunisia	33	21	21	15	-	-	-	-	-	-	-
Zambia	941	618	471	375	148	128	153	161	171	182	168
Zimbabwe	2758	2614	3026	5355	4494	4297	3452	3698	3521	3306	3748
Other Africa	222	278	379	454	444	702	803	752	894	937	2234
Argentina	1072	1425	1247	1367	1439	1058	937	1383	1454	1573	1820
Brazil	2842	6354	9870	10650	12080	13457	14594	14270	13764	15068	18263
Chile	1711	1678	1792	3720	3391	4590	4604	4571	5726	5721	6530
Colombia	2859	4135	4630	4825	5608	4231	3635	4173	3815	3697	4730
Costa Rica	1	1	1	1	-	-	-	2	2	21	128
Cuba	45	90	126	153	63	15	12	12	22	14	20
Dominican Republic	-	-	224	17	80	93	777	476	704	728	697
Ecuador	-	-	-	-	-	-	-	-	-	-	4
Guatemala	-	22	-	-	-	215	461	588	616	660	537
Haiti	-	-	61	12	-	-	-	-	-	-	-
Honduras	-	-	-	-	-	135	174	183	190	201	205
Jamaica	-	-	-	52	55	72	93	60	32	36	97
Nicaragua	-	-	-	-	-	-	-	-	-	-	30
Panama	13	-	32	32	51	60	-	-	-	-	1
Peru	86	74	107	149	389	708	1065	1075	850	1180	981
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-	7
Uruguay	32	4	-	1	-	1	1	1	2	2	-
Venezuela	53	42	42	355	7	181	-	52	52	62	2413
Other Latin America	-	-	-	-	-	-	-	-	-	-	1516
Bangladesh	243	235	98	563	642	660	700	700	700	700	700
Cambodia	-	-	-	-	-	-	-	-	-	-	39
Hong Kong (China)	12	3	5523	8928	9109	6058	10691	10824	11403	12261	13499
India	73410	108622	154347	211533	278553	338729	411237	430693	459760	500092	547849
Indonesia	129	237	771	1943	4746	5600	13287	15445	23717	33902	43580
DPR of Korea	23580	34456	42200	37793	24340	22241	22966	24235	24860	20267	26156
Malaysia	13	76	517	1936	2303	3298	10682	12728	13147	16519	16984
Mongolia	-	-	480	595	1290	70	96	105	357	301	37
Myanmar	74	221	223	80	15	38	128	145	155	163	846
Nepal	78	83	17	81	129	430	257	410	425	439	412
Pakistan	1270	1667	2954	4245	4723	4045	7894	7714	7894	10111	10963
Philippines	40	303	2416	2570	2998	8597	9451	9906	10070	11127	12570
Sri Lanka	-	-	1	8	5	-	25	93	70	68	91
Chinese Taipei	3572	5956	11085	17230	26167	42055	53186	54711	56783	59358	66133
Thailand	1	94	212	250	2315	3684	7472	8479	11104	14051	13175

Table 2.1: World hard coal consumption[1] (continued)
(thousand tonnes)

	1973	1980	1985	1990	1995	2000	2004	2005	2006	2007	2008e
Vietnam	2770	4052	4990	3951	5917	7808	14900	14510	16152	16623	19903
Other Asia	220	657	345	303	221	564	668	662	685	776	1616
PR of China	414180	626010	803907	1050951	1316890	1214956	1886367	2098830	2305093	2454333	2759637
Albania	89	160	220	302	-	-	-	-	-	-	-
Bulgaria	6136	6999	8277	6046	3443	3379	4265	4361	4259	4916	5072
Cyprus	-	-	74	97	97	49	57	52	54	49	1621
Malta	-	-	192	300	52	-	-	-	-	-	-
Romania	8490	12009	14705	9351	5065	2649	3025	3041	2796	2950	3786
Bosnia and Herzegovina	x	x	x	-	-	-	299	592	633	676	677
Croatia	x	x	x	1150	143	623	1106	1057	987	1081	2233
F.Y.R. of Macedonia	x	x	x	129	142	67	9	3	57	12	172
Serbia	x	x	x	137	55	218	202	67	62	93	5
Slovenia	x	x	x	32	20	11	45	49	46	66	501
Former Yugoslavia	2540	3790	5089	x	x	x	x	x	x	x	x
Armenia	x	x	x	552	3	-	-	-	1	3	-
Azerbaijan	x	x	x	200	6	-	-	-	-	-	-
Belarus	x	x	x	2389	1125	504	234	168	132	83	75
Estonia	x	x	x	382	85	87	58	56	70	130	118
Georgia	x	x	x	1323	44	27	14	18	16	48	12
Kazakhstan	x	x	x	85806	61195	47000	58465	58561	65401	65302	77421
Kyrgyzstan	x	x	x	4014	505	830	1000	887	817	839	877
Latvia	x	x	x	917	252	97	98	120	130	162	343
Lithuania	x	x	x	1303	372	130	263	284	396	379	374
Republic of Moldova	x	x	x	4510	1315	181	186	167	194	131	135
Russia	x	x	x	240033	163266	142222	144978	141438	145771	142034	171571
Tajikistan	x	x	x	1044	14	16	85	90	96	158	186
Turkmenistan	x	x	x	670	-	-	-	-	-	-	-
Ukraine	x	x	x	139440	86898	65887	64464	63614	68237	68196	65351
Uzbekistan	x	x	x	2740	81	69	-	-	-	-	-
Former USSR	490220	529110	543430	x	x	x	x	x	x	x	x
Islam. Rep. of Iran	948	1783	1444	1061	1546	1879	1560	1810	1939	1973	1770
Israel	-	-	2927	3720	6568	10591	12875	12124	12991	13294	13072
Lebanon	1	1	-	-	180	200	200	200	200	200	216
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	2
Syria	1	1	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	767
Non OECD Total	**1103331**	**1443087**	**1758798**	**2008412**	**2194406**	**2130480**	**2962102**	**3194899**	**3466584**	**3680264**	**4110021**
World	**2246573**	**2776367**	**3193470**	**3461322**	**3645503**	**3705097**	**4635342**	**4885848**	**5168002**	**5415172**	**5814087**

Source: *IEA/OECD Energy Statistics of OECD Countries* , *IEA/OECD Energy Statistics of Non-OECD Countries*

(1) Hard coal represents higher grade coal and includes coking coal, anthracite and bituminous coal.
For further information, see *Principles and Definitions* .

(2) Includes sub-bituminous coal.

Table 2.2: World coking coal consumption

(thousand tonnes)

	1978	1980	1985	1990	1995	2000	2004	2005	2006	2007	2008E
Australia	7216	7049	5476	5932	5874	4799	5132	5354	4678	4710	3184
Austria	2006	2371	2391	2337	1908	1877	1904	1899	1892	1901	1863
Belgium	7524	8010	8086	7157	4737	4045	3627	3263	3753	3448	2737
Canada	6776	7321	6483	5023	4417	4461	4591	4289	4550	5429	4585
Czech Republic	12567	12166	11365	9941	6648	4972	4526	4334	4334	4099	5560
Denmark	-	7	6	-	-	-	-	-	-	-	-
Finland	-	-	-	711	1650	1284	1364	1401	1073	1418	1235
France	12980	14570	11332	9669	7739	6543	6753	6222	5978	5317	7218
Germany	41881	50293	47825	42216	33993	24462	23667	22193	21690	23000	20207
Greece	213	384	-	-	-	-	-	-	-	-	-
Hungary	1740	1695	1043	971	1402	1280	861	808	1301	1460	1433
Iceland	-	-	20	13	7	14	18	14	19	30	50
Ireland	-	-	7	14	-	-	-	-	-	-	-
Italy	9909	11237	10165	8633	6966	6658	5083	5630	6089	6197	6249
Japan	58724	70203	73456	64934	59796	57081	60884	56530	57672	58199	57367
Korea	2009	3987	6959	11735	16305	19415	21027	20883	20734	21736	23835
Mexico	4053	3973	3837	2911	1875	932	1079	676	841	1019	975
Netherlands	2953	3521	4061	4391	4894	4047	4617	4699	4391	4703	4501
New Zealand	-	8	6	219	-	-	-	-	-	-	-
Norway	414	432	394	-	-	-	-	-	-	-	-
Poland	25847	25272	17745	18127	17405	13332	13684	11157	12977	13642	12878
Portugal	423	363	370	313	455	497	-	-	-	-	-
Slovak Republic	2180	2336	2790	3136	2745	2597	2852	2738	2850	2854	2616
Spain	4863	5407	4908	4456	3312	3556	3902	3463	3556	3667	3446
Sweden	1227	1654	1620	1515	1646	1772	1790	1847	2217	1998	2109
Turkey	3429	3407	4825	5335	4658	7042	5312	5585	5929	5816	6161
United Kingdom	14988	11628	11122	10517	8487	8853	6482	6569	7044	7170	6808
United States	68885	61457	37246	35269	29934	25963	21462	20893	20902	20524	19989
IEA Europe	*145144*	*154753*	*140055*	*129439*	*108645*	*92817*	*86424*	*81808*	*85074*	*86690*	*85021*
OECD Europe	*145144*	*154753*	*140075*	*129452*	*108652*	*92831*	*86442*	*81822*	*85093*	*86720*	*85071*
IEA North America	*75661*	*68778*	*43729*	*40292*	*34351*	*30424*	*26053*	*25182*	*25452*	*25953*	*24574*
OECD North America	*79714*	*72751*	*47566*	*43203*	*36226*	*31356*	*27132*	*25858*	*26293*	*26972*	*25549*
OECD Pacific	*67949*	*81247*	*85897*	*82820*	*81975*	*81295*	*87043*	*82767*	*83084*	*84645*	*84386*
IEA Total	**288754**	**304778**	**269681**	**252551**	**224971**	**204536**	**199520**	**189757**	**193610**	**197288**	**193981**
OECD Total	**292807**	**308751**	**273538**	**255475**	**226853**	**205482**	**200617**	**190447**	**194470**	**198337**	**195006**

Table 2.2: World coking coal consumption (continued)
(thousand tonnes)

	1978	1980	1985	1990	1995	2000	2004	2005	2006	2007	2008E
Algeria	50	93	1226	1005	632	689	988	898	948	938	885
Egypt	975	894	1192	1339	1540	1820	1850	1777	1713	1708	1582
Morocco	-	-	-	-	-	-	-	-	-	-	76
South Africa	7018	7158	6000	5675	4220	2569	2011	2975	2765	2589	2989
United Rep. of Tanzania	-	-	-	1	1	-	-	-	-	-	-
Zimbabwe	946	991	269	612	621	813	651	690	657	617	714
Argentina	990	801	826	1121	589	558	726	789	987	961	995
Brazil	4869	6154	9602	10489	11094	9936	10003	9742	9379	10376	11656
Chile	385	454	427	492	715	714	706	703	700	694	712
Colombia	705	716	745	775	681	587	525	514	517	522	1030
Costa Rica	-	-	-	-	-	-	-	-	-	-	65
Guatemala	-	-	-	-	-	-	-	180	188	212	96
Jamaica	-	-	-	52	55	72	93	60	32	36	73
Nicaragua	-	-	-	-	-	-	-	-	-	-	30
Peru	40	49	50	37	51	44	18	-	-	-	-
India	15757	15441	28149	39491	39409	35852	38298	39041	41083	46010	56146
Indonesia	-	-	-	-	-	-	-	-	-	-	1711
DPR of Korea	3857	4286	5000	5143	1040	101	166	175	180	147	228
Mongolia	-	-	-	-	-	-	-	-	228	153	-
Pakistan	16	98	716	1102	1085	950	1272	565	311	466	788
Philippines	-	-	-	-	-	-	-	-	-	-	779
Chinese Taipei	1386	1513	2562	4150	4208	5236	5082	4919	4810	4600	5884
Thailand	-	-	-	-	-	-	-	-	-	-	74
PR of China	52304	66822	62873	80968	140670	119979	225294	282365	339626	381149	433054
Albania	25	25	33	62	-	-	-	-	-	-	-
Bulgaria	1921	1926	1553	1854	1693	1325	1174	1051	947	751	419
Cyprus	-	-	-	-	-	-	-	-	-	-	39
Romania	5734	5228	7825	5082	5047	2257	2954	2963	2738	2883	2412
Bosnia and Herzegovina	x	x	x	-	-	-	299	592	633	676	675
Croatia	x	x	x	747	-	-	-	-	-	-	1283
F.Y.R. of Macedonia	x	x	x	117	70	67	-	-	-	-	-
Slovenia	x	x	x	1	-	-	-	-	-	-	137
Former Yugoslavia	1447	3402	4689	x	x	x	x	x	x	x	x
Georgia	x	x	x	686	6	-	-	-	-	-	-
Kazakhstan	x	x	x	29983	10853	10294	10738	10699	11874	12108	13864
Kyrgyzstan	x	x	x	-	-	-	3	-	-	-	-
Latvia	x	x	x	-	-	-	-	-	-	-	175
Republic of Moldova	x	x	x	-	-	-	-	-	2	1	-
Russia	x	x	x	53885	50669	43938	49197	44991	44622	46529	49639
Tajikistan	x	x	x	-	7	2	2	2	2	2	2
Ukraine	x	x	x	54508	31642	30581	32266	29821	30311	30296	29095
Former USSR	129250	131534	123985	x	x	x	x	x	x	x	x
Islam. Rep. of Iran	1107	1700	1344	986	1388	1605	1270	1450	1489	1395	1201
Israel	-	-	-	-	-	-	-	-	-	-	304
Non OECD Total	**228782**	**249285**	**259066**	**300363**	**307986**	**269989**	**385586**	**436962**	**496742**	**545819**	**618812**
World	**521589**	**558036**	**532604**	**555838**	**534839**	**475471**	**586203**	**627409**	**691212**	**744156**	**813818**

Source: *IEA/OECD Energy Statistics of OECD Countries* , *IEA/OECD Energy Statistics of Non-OECD Countries*

Table 2.3: World steam coal consumption[1]

(thousand tonnes)

	1973	1980	1985	1990	1995	2000	2004	2005	2006	2007	2008e
Australia[2]	27292	27373	34504	43367	45865	56031	59777	67504	68913	68040	70033
Austria	2856	500	787	1822	1484	1847	2424	2155	2355	2299	1622
Belgium[2]	17169	8994	7490	8996	7657	7001	4755	4288	3430	3070	3046
Canada	17556	14040	15039	13863	11483	18042	14215	16162	16690	17829	8182
Czech Republic(3)	27780	11771	10665	-	-	-	50	36	53	42	33
Denmark	3146	9662	11929	9992	11003	6641	7327	6293	9172	7908	7076
Finland	3035	5692	5318	4937	4890	3909	6718	3197	6539	5657	3792
France	40289	33510	25175	19122	14872	15258	13800	14920	13093	14873	11905
Germany	105801	46092	45641	44749	40231	44501	44255	41759	43848	47097	45323
Greece	651	161	1750	1380	1480	1121	776	563	463	710	403
Hungary	2137	-	-	-	-	-	438	533	550	505	480
Iceland	1	12	49	52	58	87	86	103	89	108	59
Ireland	822	1066	1579	3184	2689	2944	2806	2870	2588	2377	2202
Italy	11603	5787	11729	12694	10480	11355	19197	18610	18709	18921	19228
Japan	81690	17496	35935	50026	73768	96109	119918	120444	121426	128784	128201
Korea	16329	23803	35546	33041	28329	47133	58927	61389	63975	70308	80995
Luxembourg	305	346	199	197	217	171	129	111	153	109	74
Mexico[2]	2894	-	1480	3970	8368	11358	13004	16880	16618	16463	12687
Netherlands	4794	2452	6215	9641	9766	8881	8934	8310	8257	8742	8295
New Zealand[2]	2317	1760	1804	1783	1938	1779	3490	3935	3909	2796	3251
Norway	772	519	724	749	1018	1035	914	795	637	678	721
Poland	122097	138506	138825	102104	90418	70039	70231	69281	73153	71694	70117
Portugal[2]	805	241	680	4084	5253	5657	5514	5476	5467	4742	4156
Slovak Republic	5834	3037	3019	2743	2585	2059	2299	2245	2298	2167	2183
Spain	13260	11124	20290	21591	24176	29248	30079	29485	25839	29423	20830
Sweden	1060	484	2538	2194	1798	1089	1539	1223	1018	1194	740
Switzerland	258	315	640	481	245	178	191	197	166	173	162
Turkey	4595	1223	1364	2811	3890	8484	13592	13836	16869	19534	15959
United Kingdom	133527	111982	94858	96205	67429	51015	54086	55210	60297	55695	50193
United States[2]	492567	546581	645362	701657	752854	866163	913152	932692	920374	934633	937112
IEA Europe	*502596*	*393464*	*391415*	*349676*	*301581*	*272433*	*290054*	*281393*	*294954*	*297610*	*268540*
OECD Europe	*502597*	*393476*	*391464*	*349728*	*301639*	*272520*	*290140*	*281496*	*295043*	*297718*	*268599*
IEA North America	*510123*	*560621*	*660401*	*715520*	*764337*	*884205*	*927367*	*948854*	*937064*	*952462*	*945294*
OECD North America	*513017*	*560621*	*661881*	*719490*	*772705*	*895563*	*940371*	*965734*	*953682*	*968925*	*957981*
OECD/IEA Pacific	*127628*	*70432*	*107789*	*128217*	*149900*	*201052*	*242112*	*253272*	*258223*	*269928*	*282480*
IEA Total	**1140347**	**1024517**	**1159605**	**1193413**	**1215818**	**1357690**	**1459533**	**1483519**	**1490241**	**1520000**	**1496314**
OECD Total	**1143242**	**1024529**	**1161134**	**1197435**	**1224244**	**1369135**	**1472623**	**1500502**	**1506948**	**1536571**	**1509060**

Table 2.3: World steam coal consumption[(1)] (continued)
(thousand tonnes)

	1973	1980	1985	1990	1995	2000	2004	2005	2006	2007	2008e
Algeria	63	-	-	-	-	-	-	-	-	-	131
Botswana	-	-	466	815	912	1041	899	969	1031	1099	1036
Dem. Rep. of Congo	170	167	156	169	136	134	154	164	172	183	116
Egypt	477	-	-	1	-	-	-	-	-	-	45
Kenya	70	16	90	151	96	66	108	89	120	110	130
Morocco	582	635	1110	1774	2665	4018	4656	4938	4926	5019	5142
Mozambique	587	288	106	58	56	-	-	-	-	9	-
Namibia	-	-	-	-	16	3	1	20	64	77	3
Nigeria	289	151	94	55	20	3	3	8	8	8	8
Senegal	-	-	-	-	-	-	127	152	167	183	195
South Africa	60408	79803	119870	119225	142985	154566	176984	172428	175115	181002	172939
United Rep. of Tanzania	-	1	15	3	43	79	65	75	80	85	68
Tunisia	33	21	21	15	-	-	-	-	-	-	-
Zambia	941	618	471	375	148	128	153	161	171	182	168
Zimbabwe	2758	1623	2757	4743	3873	3484	2801	3008	2864	2689	3034
Other Africa	222	278	379	454	444	702	803	752	894	937	2234
Argentina	1072	624	421	246	850	500	211	594	467	612	825
Brazil	2842	200	268	161	986	3521	4591	4528	4385	4692	6607
Chile	1711	1224	1365	3228	2676	3876	3898	3868	5026	5027	5818
Colombia	2859	3419	3885	4050	4927	3644	3110	3659	3298	3175	3700
Costa Rica	1	1	1	1	-	-	-	2	2	21	63
Cuba	45	90	126	153	63	15	12	12	22	14	20
Dominican Republic	-	-	224	17	80	93	777	476	704	728	697
Ecuador	-	-	-	-	-	-	-	-	-	-	4
Guatemala	-	22	-	-	-	215	461	408	428	448	441
Haiti	-	-	61	12	-	-	-	-	-	-	-
Honduras	-	-	-	-	-	135	174	183	190	201	205
Jamaica	-	-	-	-	-	-	-	-	-	-	24
Nicaragua	-	-	-	-	-	-	-	-	-	-	-
Panama	13	-	32	32	51	60	-	-	-	-	1
Peru	86	25	57	112	338	664	1047	1075	850	1180	981
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-	7
Uruguay	32	4	-	1	-	1	1	1	2	2	-
Venezuela	53	42	42	355	7	181	-	52	52	62	2413
Other Latin America	-	-	-	-	-	-	-	-	-	-	1516
Bangladesh	243	235	98	563	642	660	700	700	700	700	700
Cambodia	-	-	-	-	-	-	-	-	-	-	39
Hong Kong (China)	12	3	5523	8928	9109	6058	10691	10824	11403	12261	13499
India	73410	93181	126198	172042	239144	302877	372939	391652	418677	454082	491703
Indonesia	129	237	771	1943	4746	5600	13287	15445	23717	33902	41869
DPR of Korea	23580	30170	37200	32650	23300	22140	22800	24060	24680	20120	25928
Malaysia	13	76	517	1936	2303	3298	10682	12728	13147	16519	16984
Mongolia	-	-	480	595	1290	70	96	105	129	148	37
Myanmar	74	221	223	80	15	38	128	145	155	163	846
Nepal	78	83	17	81	129	430	257	410	425	439	412
Pakistan	1270	1569	2238	3143	3638	3095	6622	7149	7583	9645	10175
Philippines	40	303	2416	2570	2998	8597	9451	9906	10070	11127	11791
Sri Lanka	-	-	1	8	5	-	25	93	70	68	91
Chinese Taipei	3572	4443	8523	13080	21959	36819	48104	49792	51973	54758	60249
Thailand	1	94	212	250	2315	3684	7472	8479	11104	14051	13101

Table 2.3: World steam coal consumption[1] (continued)
(thousand tonnes)

	1973	1980	1985	1990	1995	2000	2004	2005	2006	2007	2008e
Vietnam	2770	4052	4990	3951	5917	7808	14900	14510	16152	16623	19903
Other Asia	220	657	345	303	221	564	668	662	685	776	1616
PR of China	414180	559188	741034	969983	1176220	1094977	1661073	1816465	1965467	2073184	2326583
Albania	89	135	187	240	-	-	-	-	-	-	-
Bulgaria	6136	5073	6724	4192	1750	2054	3091	3310	3312	4165	4653
Cyprus	-	-	74	97	97	49	57	52	54	49	1582
Malta	-	-	192	300	52	-	-	-	-	-	-
Romania	8490	6781	6880	4269	18	392	71	78	58	67	1374
Bosnia and Herzegovina	x	x	x	-	-	-	-	-	-	-	2
Croatia	x	x	x	403	143	623	1106	1057	987	1081	950
F.Y.R. of Macedonia	x	x	x	12	72	-	9	3	57	12	172
Serbia	x	x	x	137	55	218	202	67	62	93	5
Slovenia	x	x	x	31	20	11	45	49	46	66	364
Former Yugoslavia	2540	388	400	x	x	x	x	x	x	x	x
Armenia	x	x	x	552	3	-	-	-	1	3	-
Azerbaijan	x	x	x	200	6	-	-	-	-	-	-
Belarus	x	x	x	2389	1125	504	234	168	132	83	75
Estonia	x	x	x	382	85	87	58	56	70	130	118
Georgia	x	x	x	637	38	27	14	18	16	48	12
Kazakhstan	x	x	x	55823	50342	36706	47727	47862	53527	53194	63557
Kyrgyzstan	x	x	x	4014	505	830	997	887	817	839	877
Latvia	x	x	x	917	252	97	98	120	130	162	168
Lithuania	x	x	x	1303	372	130	263	284	396	379	374
Republic of Moldova	x	x	x	4510	1315	181	186	167	192	130	135
Russia	x	x	x	186148	112597	98284	95781	96447	101149	95505	121932
Tajikistan	x	x	x	1044	7	14	83	88	94	156	184
Turkmenistan	x	x	x	670	-	-	-	-	-	-	-
Ukraine	x	x	x	84932	55256	35306	32198	33793	37926	37900	36256
Uzbekistan	x	x	x	2740	81	69	-	-	-	-	-
Former USSR	490220	397576	419445	x	x	x	x	x	x	x	x
Islam. Rep. of Iran	948	83	100	75	158	274	290	360	450	578	569
Israel	-	-	2927	3720	6568	10591	12875	12124	12991	13294	12768
Lebanon	1	1	-	-	180	200	200	200	200	200	216
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	2
Syria	1	1	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	767
Non OECD Total	**1103331**	**1193802**	**1499732**	**1708049**	**1886420**	**1860491**	**2576516**	**2757937**	**2969842**	**3134445**	**3491209**
World	**2246573**	**2218331**	**2660866**	**2905484**	**3110664**	**3229626**	**4049139**	**4258439**	**4476790**	**4671016**	**5000269**

Source: *IEA/OECD Energy Statistics of OECD Countries* , *IEA/OECD Energy Statistics of Non-OECD Countries*

(1) Steam coal is also commonly known as thermal coal. It includes anthracite and bituminous coal. For further information, see *Principles and Definitions* .

(2) Includes sub-bituminous coal.

(3) In the 2008 edition, the Czech Administration changed the classification between bituminous coal, sub-bituminous coal and lignite for 1990 onwards.

Table 2.4: World brown coal consumption[1]

(thousand tonnes)

	1973	1980	1985	1990	1995	2000	2004	2005	2006	2007	2008e
Australia	24121	32894	38380	45990	50752	67293	66343	67152	67737	65613	72400
Austria	3328	3274	3868	2504	1743	1381	1212	1286	764	187	51
Belgium	-	95	275	276	195	220	190	206	290	317	103
Canada[2]	8058	15911	26653	30260	36734	40465	40943	39760	36701	37777	42951
Czech Republic[2]	75965	79822	83854	81891	59832	56117	52714	52473	53476	54196	50337
France	2775	2570	2418	2094	1516	355	40	36	37	51	67
Germany	372497	391753	432521	364050	194811	169942	181948	177892	176378	180491	175194
Greece	13000	22692	36214	52053	56962	64564	70855	70096	64598	66373	65791
Hungary[2]	26896	25849	24583	19005	15529	13893	12173	10247	10181	10088	9940
Ireland	-	-	-	38	45	36	42	53	9	14	13
Italy	1299	1385	2041	1089	196	30	9	8	8	4	5
Japan	100	27	-	-	-	-	-	-	-	-	-
Luxembourg	-	28	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	2	4	4	3	3	3	3
Netherlands	20	156	103	69	29	44	44	50	35	58	45
New Zealand	143	208	264	207	250	261	284	276	280	286	323
Poland	34282	35308	57565	67391	63196	59488	61175	61589	60800	57529	59552
Slovak Republic	12784	16039	15784	12481	7221	4213	3589	3307	3168	2935	3580
Spain[2]	3062	14691	23242	20776	15054	12850	11823	11550	10103	9579	2328
Switzerland	-	-	-	13	8	6	4	39	86	85	75
Turkey[2]	7642	15801	35301	46178	52471	64406	45545	57315	60786	72827	73124
United States	12948	42129	62063	79023	80764	74265	76119	76136	75785	71851	69352
IEA Europe	*553550*	*609463*	*717769*	*669908*	*468808*	*447545*	*441363*	*446147*	*440719*	*454734*	*440205*
OECD Europe	*553550*	*609463*	*717769*	*669908*	*468808*	*447545*	*441363*	*446147*	*440719*	*454734*	*440205*
IEA North America	*21006*	*58040*	*88716*	*109283*	*117498*	*114730*	*117062*	*115896*	*112486*	*109628*	*112303*
OECD North America	*21006*	*58040*	*88716*	*109283*	*117500*	*114734*	*117066*	*115899*	*112489*	*109631*	*112306*
OECD/IEA Pacific	*24364*	*33129*	*38644*	*46197*	*51002*	*67554*	*66627*	*67428*	*68017*	*65899*	*72723*
IEA Total	**598920**	**700632**	**845129**	**825388**	**637308**	**629829**	**625052**	**629471**	**621222**	**630261**	**625231**
OECD Total	**598920**	**700632**	**845129**	**825388**	**637310**	**629833**	**625056**	**629474**	**621225**	**630264**	**625234**

Table 2.4: World brown coal consumption[(1)] (continued)

(thousand tonnes)

	1973	1980	1985	1990	1995	2000	2004	2005	2006	2007	2008e
Angola	-	-	-	-	-	-	-	-	-	-	10
Egypt	-	-	-	-	-	-	-	-	-	-	14
Libya	-	-	-	-	-	-	-	-	-	-	3
Nigeria	-	-	-	-	-	-	-	-	-	-	3
Argentina	-	-	-	-	-	-	-	-	-	-	1
Brazil	1280	2788	6991	4786	5040	6813	5236	5734	6259	5853	5821
Chile	61	40	35	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-	1
Venezuela	-	-	-	-	-	-	-	-	-	-	11
India	3762	5059	7913	14985	22298	24825	30033	30239	30808	34654	35325
Indonesia	-	-	163	4422	5598	13755	22900	25697	27794	30238	26218
DPR of Korea	7000	10000	12000	10660	7600	7243	7340	7746	7946	6478	8956
Malaysia	-	-	-	-	-	-	-	-	-	-	609
Mongolia	-	-	5687	6054	3914	5142	5093	5367	5562	5759	6012
Myanmar	-	27	43	38	23	59	75	85	111	113	328
Pakistan	-	-	-	-	-	-	-	-	-	-	81
Philippines	-	-	4	3	3	3	3	3	3	3	484
Singapore	1	1	-	2	-	-	3	-	-	-	-
Chinese Taipei	-	-	-	-	62	4725	5106	5005	5410	5718	78
Thailand	361	1525	5132	12457	18496	17586	20548	21046	18852	18121	20783
Vietnam	-	-	-	-	-	-	-	-	-	1811	1802
Other Asia	2206	4200	-	-	-	-	-	-	-	-	-
People's Republic of China	-	-	-	-	-	-	-	-	-	-	71
Albania	810	1420	2150	1843	80	73	118	105	105	105	116
Bulgaria	26311	29704	30657	31778	30873	25844	26292	24870	25775	28687	28748
Cyprus	-	-	-	-	-	-	1	1	1	1	-
Romania	17690	27364	38404	36872	40635	29313	32574	32961	37627	36613	34938
Bosnia and Herzegovina	x	x	x	19670	1640	7437	8402	8865	9875	10308	9540
Croatia	x	x	x	743	188	80	83	83	84	65	-
F.Y.R. of Macedonia	x	x	x	6808	7293	7702	7551	7470	6823	6956	5040
Serbia	x	x	x	45800	40550	37106	41239	35323	37367	37359	37351
Slovenia	x	x	x	6058	5219	4914	5329	5143	5185	5198	5031
Former Yugoslavia	31356	40516	68217	x	x	x	x	x	x	x	x
Estonia	x	x	x	25954	14561	13232	15503	14804	14028	16810	16193
Kazakhstan	x	x	x	3443	3630	2438	3599	3586	3973	4066	4153
Kyrgyzstan	x	x	x	2140	287	339	475	452	436	468	484
Latvia	x	x	x	3	-	-	-	-	-	-	-
Lithuania	x	x	x	-	-	1	1	3	3	-	-
Russia	x	x	x	134047	82065	88257	72060	73156	73929	70147	75683
Tajikistan	x	x	x	450	27	13	15	15	15	15	12
Ukraine	x	x	x	7983	3000	793	634	409	233	194	269
Uzbekistan	x	x	x	6200	2947	2438	2633	2930	3050	3201	2400
Former USSR	157138	163030	157015	x	x	x	x	x	x	x	x

Table 2.4: World brown coal consumption(1) (continued)
(thousand tonnes)

	1973	1980	1985	1990	1995	2000	2004	2005	2006	2007	2008e
Israel	-	-	-	303	470	390	439	429	452	429	640
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	90
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	1
Non OECD Total	**247976**	**285674**	**334411**	**383502**	**296499**	**300521**	**313285**	**311527**	**321706**	**329370**	**327300**
World	**846896**	**986306**	**1179540**	**1208890**	**933809**	**930354**	**938341**	**941001**	**942931**	**959634**	**952534**

Source: *IEA/OECD Energy Statistics of OECD Countries* , *IEA/OECD Energy Statistics of Non-OECD Countries*

(1) Brown coal represents lower grade coal and includes lignite.
For further information, see *Principles and Definitions* .

(2) Includes sub-bituminous coal.

Table 2.5: OECD consumption of coke oven coke[(1)]

(thousand tonnes)

	1973	1980	1985	1990	1995	2000	2004	2005	2006	2007	2008e
Australia	4983	5077	3520	3300	3952	3456	2972	3001	2825	2852	2464
Austria	2681	2674	2993	2403	2354	2436	2511	2751	2788	2780	2840
Belgium	8429	6542	5789	5265	4287	3928	3137	2951	2863	2422	2954
Canada	5454	5519	5212	3412	3682	3429	3667	3361	4139	3784	3908
Czech Republic	5913	6244	6472	5713	3857	3144	3339	2949	3191	3208	3122
Denmark	96	116	68	40	43	40	45	34	35	38	35
Finland	877	1224	1218	1272	1192	1443	1412	1416	1420	1414	1381
France	14783	13180	10353	7714	6219	6119	5045	5043	5594	5030	4735
Germany	37220	32691	29657	21127	14879	14982	12990	12209	11880	13079	12360
Greece	414	261	55	42	12	1	4	4	3	2	1
Hungary	2317	2243	2000	1183	990	804	783	751	736	775	735
Iceland	-	16	34	30	18	47	52	33	26	34	21
Ireland	13	8	22	29	6	-	-	-	-	-	-
Italy	7099	7379	7258	6413	5656	5041	4988	5271	5099	4983	4534
Japan	51800	45795	44859	49890	41939	41604	42937	43191	44425	45486	42008
Korea	356	3086	5359	8800	10593	12288	11356	9276	10202	10477	11557
Luxembourg	3235	2282	1854	1447	521	-	-	-	-	-	-
Mexico	2173	2494	3022	2528	2951	3591	3122	3166	3223	3240	3553
Netherlands	2657	2363	2539	2339	2387	2002	2161	2082	1903	2148	2112
New Zealand	20	13	6	-	-	-	-	-	-	-	-
Norway	826	849	881	529	500	559	461	356	420	437	424
Poland	14212	17849	14671	9854	8294	5762	4990	3399	3948	3905	3111
Portugal	306	317	401	240	296	323	8	5	4	4	4
Slovak Republic	2422	1642	2126	2833	1964	1815	2075	1984	2209	1797	1664
Spain	5349	3917	3758	3365	3131	1923	2025	2027	1932	1935	2077
Sweden	1900	1618	1494	1422	1496	1495	1778	1701	1433	1433	1519
Switzerland	185	131	82	43	31	27	20	20	19	22	24
Turkey	1251	1954	2803	3256	3201	3592	3333	3428	3648	3816	4108
United Kingdom	17034	7296	9209	8244	6517	6502	5389	5001	5257	5242	4833
United States	64235	37446	26553	25230	22180	21085	20406	16547	17041	15666	15427
IEA Europe	*129219*	*112780*	*105703*	*84773*	*67833*	*61938*	*56494*	*53382*	*54382*	*54470*	*52573*
OECD Europe	*129219*	*112796*	*105737*	*84803*	*67851*	*61985*	*56546*	*53415*	*54408*	*54504*	*52594*
IEA North America	*69689*	*42965*	*31765*	*28642*	*25862*	*24514*	*24073*	*19908*	*21180*	*19450*	*19335*
OECD North America	*71862*	*45459*	*34787*	*31170*	*28813*	*28105*	*27195*	*23074*	*24403*	*22690*	*22888*
OECD Pacific	*57159*	*53971*	*53744*	*61990*	*56484*	*57348*	*57265*	*55468*	*57452*	*58815*	*56029*
IEA Total	**256067**	**209716**	**191212**	**175405**	**150179**	**143800**	**137832**	**128758**	**133014**	**132735**	**127937**
OECD Total	**258240**	**212226**	**194268**	**177963**	**153148**	**147438**	**141006**	**131957**	**136263**	**136009**	**131511**

Source: *IEA/OECD Energy Statistics of OECD Countries*

(1) Solid product obtained from carbonization of coal, principally coking coal, used mainly in the iron and steel industry.
Also includes coke and semi-coke made from lignite.
For further information, see *Principles and Definitions*.

3. TRADE

Table 3.1: World and seaborne coal trade

(million tonnes)

	Steam coal		Coking coal		Hard coal	
	Total	**Seaborne**	**Total**	**Seaborne**	**Total**	**Seaborne**
1985	274.1	142.2	185.1	134.6	459.2	276.8
1986	269.7	143.5	172.9	130.5	442.6	274.1
1987	270.0	143.1	174.3	133.7	444.2	276.7
1988	286.6	155.3	191.9	149.8	478.5	305.0
1989	288.0	166.2	190.9	154.1	478.9	320.3
1990	299.0	183.2	199.3	154.5	498.4	337.7
1991	287.8	201.1	193.3	164.3	481.0	365.4
1992	287.6	210.1	172.8	153.9	460.5	364.0
1993	253.0	198.2	186.5	160.6	439.6	358.8
1994	267.7	217.4	182.9	163.2	450.6	380.6
1995	297.2	247.9	196.0	174.3	493.2	422.2
1996	317.7	271.3	195.0	174.7	512.7	446.0
1997	339.9	284.6	200.7	181.6	540.5	466.2
1998	361.9	292.5	186.2	171.3	548.1	463.8
1999	357.6	302.4	185.0	172.4	542.6	474.8
2000	421.2	356.5	186.9	171.3	608.1	527.9
2001	454.0	384.7	199.1	181.3	653.1	566.0
2002	464.1	407.6	187.6	172.4	651.7	580.0
2003	513.0	445.3	205.9	190.5	718.9	635.8
2004	556.6	492.3	197.3	180.1	753.9	672.3
2005	595.1	532.1	216.3	196.8	811.4	728.9
2006	646.4	574.8	222.8	204.4	869.3	779.2
2007	679.2	606.7	246.8	225.6	926.0	832.3
2008	676.0	606.1	261.8	243.2	937.8	849.3

Table 3.2: World total hard coal trade

(million tonnes)

	Japan		**Other Asia**		**OECD Europe**		**Other Europe[1]**		**Africa + Mid. East**		**OECD North America**		**Latin America**		**Balancing item**		**World**	
Exporters	**2007**	**2008**	**2007**	**2008**	**2007**	**2008**	**2007**	**2008**	**2007**	**2008**	**2007**	**2008**	**2007**	**2008**	**2007**	**2008**	**2007**	**2008**
Australia	114.6	120.1	79.9	85.4	30.3	28.2	2.7	0.4	3.6	2.8	4.7	0.8	5.3	5.4	2.6	9.1	243.6	252.2
Canada	11.2	8.1	6.2	7.8	8.5	6.9	-	0.1	0.2	0.5	2.0	2.0	2.2	2.0	-0.6	4.1	29.7	31.5
Poland	-	-	-	-	12.8	9.8	0.0	0.0	-	-	-	-	-	-	-0.9	-2.1	11.9	7.8
United States	0.0	1.4	1.0	3.0	20.6	30.8	3.2	4.5	4.1	3.6	11.7	10.5	6.6	7.1	6.1	12.8	53.4	73.7
Other OECD	0.4	0.4	0.5	0.0	11.8	13.4	0.3	0.1	0.0	0.0	0.1	0.0	1.1	0.0	11.6	5.9	25.8	19.9
Total OECD	**126.2**	**130.0**	**87.7**	**96.3**	**83.9**	**89.1**	**6.2**	**5.1**	**8.2**	**6.9**	**18.4**	**13.3**	**15.2**	**14.5**	**18.5**	**29.8**	**364.3**	**385.1**
China	13.6	14.3	36.0	32.0	2.6	1.9	-	-	-	0.1	0.1	0.0	0.3	0.9	1.1	-1.8	53.7	47.4
Colombia	0.0	0.0	-	1.5	31.9	30.2	0.4	1.0	5.7	5.5	26.0	26.1	4.8	8.2	-1.3	1.4	67.5	73.9
Indonesia	33.2	28.5	136.6	148.6	17.1	15.6	0.8	0.3	0.1	3.9	3.3	3.2	1.9	0.6	6.2	1.8	199.1	202.6
Kazakhstan	-	-	-	-	0.2	0.5	26.9	26.6	-	-	-	-	-	-	-1.3	-0.0	25.7	27.1
Russia	11.2	10.8	8.2	10.2	61.7	60.2	18.8	16.4	0.0	1.3	0.6	0.2	0.1	0.6	-0.6	1.8	100.2	101.4
South Africa	0.4	0.2	9.4	10.1	48.7	38.4	0.2	0.1	9.8	7.1	-	1.1	1.4	2.5	-3.3	2.2	66.7	61.8
Other non-OECD	2.3	1.7	35.6	36.4	13.5	12.1	2.9	3.4	-	0.0	6.9	2.2	1.2	1.7	-13.6	-18.9	48.8	38.6
Tot. imp./exp.	**187.0**	**185.6**	**277.8**	**298.8**	**259.6**	**248.0**	**53.4**	**49.4**	**23.7**	**24.9**	**55.4**	**46.2**	**23.7**	**27.3**	**45.5**	**57.6**	**926.0**	**937.8**

Source: IEA/OECD Coal Statistics and Secretariat sources.

Notes: Data in columns OECD Europe, Japan and North America are import statistics. Data in rows Australia to Total OECD (except for above mentioned columns) are export statistics. Data in column World are export statistics.
All other data are based on national and international sources and estimates.
The sum of coking coal and steam coal may not add up to total hard coal due to rounding, which may also result in discrepancies among tables 3.2 to 3.4 and other trade data in this publication.

(1) Includes former USSR and former Yugoslavia.

Table 3.3: World steam coal trade

(million tonnes)

	Japan		Other Asia		OECD Europe		Other Europe[1]		Africa+ Mid. East		OECD North America		Latin America		Balancing Item		World	
Exporters	**2007**	**2008**	**2007**	**2008**	**2007**	**2008**	**2007**	**2008**	**2007**	**2008**	**2007**	**2008**	**2007**	**2008**	**2007**	**2008**	**2007**	**2008**
Australia	78.0	90.4	42.7	44.4	7.7	6.3	0.1	-	0.5	0.2	4.7	0.8	0.8	0.4	-22.1	-27.2	112.4	115.3
Canada	7.6	2.7	0.9	2.1	0.8	0.3	-	-	0.2	0.3	0.5	0.5	0.4	0.1	-6.6	-1.1	3.7	4.9
Poland	-	-	-	-	9.5	6.4	0.0	0.0	-	-	-	-	-	-	0.0	-0.2	9.5	6.2
United States	0.0	0.3	0.1	0.5	5.5	12.8	1.1	0.4	2.2	1.7	8.4	7.2	0.5	1.1	6.3	11.0	24.2	35.1
Other OECD	0.3	-	0.0	0.0	7.0	9.3	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	11.5	4.5	18.9	14.0
Total OECD	**86.0**	**93.3**	**43.8**	**47.1**	**30.5**	**35.2**	**1.3**	**0.5**	**3.2**	**2.3**	**13.6**	**8.5**	**1.7**	**1.8**	**-11.2**	**-13.1**	**168.8**	**175.4**
China	9.9	12.7	33.4	29.1	2.5	1.7	-	-	-	0.1	0.0	0.0	0.1	0.2	4.6	-1.1	50.7	42.7
Colombia	0.0	-	-	1.5	31.8	29.9	0.4	0.9	5.7	5.5	26.0	26.1	4.7	8.0	-1.3	1.6	67.2	73.6
Indonesia	22.6	11.3	132.8	137.5	17.1	15.6	0.8	0.2	0.1	3.9	3.3	3.2	1.7	0.6	-10.7	0.7	167.7	173.0
Kazakhstan	-	-	-	-	0.2	0.5	26.1	26.6	-	-	-	-	-	-	-0.7	-0.0	25.6	27.1
Russia	7.8	9.1	7.4	9.1	59.6	58.8	10.3	7.5	0.0	1.3	0.6	0.2	0.1	0.6	-0.5	-0.7	85.2	85.9
South Africa	0.3	0.2	8.7	9.8	48.6	37.9	0.2	0.1	9.8	7.1	-	1.1	1.2	2.5	-2.9	2.4	65.8	61.3
Other Non-OECD	2.3	1.6	32.2	32.6	11.2	10.5	2.6	3.4	-	0.0	6.9	2.2	1.2	1.6	-8.2	-14.9	48.3	37.0
Tot. Imp./Exp.	**128.8**	**128.2**	**226.0**	**234.1**	**201.5**	**190.1**	**39.2**	**35.9**	**18.7**	**20.3**	**50.5**	**41.4**	**9.4**	**13.7**	**5.1**	**12.4**	**679.2**	**676.0**

Source: IEA/OECD Coal Statistics and Secretariat sources.

Notes: Data in columns OECD Europe, Japan and North America are import statistics. Data in rows Australia to Total OECD (except for above mentioned columns) are export statistics. Data in column World are export statistics.
All other data are based on national and international sources and estimates.
The sum of coking coal and steam coal may not add up to total hard coal due to rounding, which may also result in discrepancies among tables 3.2 to 3.4 and other trade data in this publication.

Table 3.4: World coking coal trade

(million tonnes)

	Japan		Other Asia		OECD Europe		Other Europe[1]		Africa+ Mid. East		OECD North America		Latin America		Balancing Item		World	
Exporters	**2007**	**2008**	**2007**	**2008**	**2007**	**2008**	**2007**	**2008**	**2007**	**2008**	**2007**	**2008**	**2007**	**2008**	**2007**	**2008**	**2007**	**2008**
Australia[2]	36.5	29.7	37.2	41.0	22.5	21.9	2.6	0.4	3.1	2.7	-	-	4.5	4.9	24.7	36.3	131.2	136.9
Canada	3.6	5.5	5.3	5.7	7.7	6.6	-	0.1	0.1	0.1	1.5	1.6	1.8	1.8	6.0	5.2	26.0	26.6
Poland	-	-	-	-	3.2	3.4	-	0.0	-	-	-	-	-	-	-0.9	-1.9	2.4	1.6
United States	0.0	1.1	0.9	2.5	15.1	18.0	2.1	4.1	1.9	1.9	3.3	3.3	6.1	5.9	-0.2	1.9	29.2	38.6
Other OECD	0.1	0.4	0.4	-	4.8	4.1	0.2	-	-	-	0.0	-	1.1	-	0.1	1.4	6.9	5.9
Total OECD	**40.3**	**36.7**	**43.9**	**49.2**	**53.3**	**53.9**	**4.9**	**4.6**	**5.0**	**4.7**	**4.8**	**4.9**	**13.6**	**12.7**	**29.7**	**42.9**	**195.6**	**209.6**
China	3.6	1.6	2.6	2.9	0.1	0.2	-	-	-	-	0.1	-	0.1	0.7	-3.5	-0.7	3.0	4.7
Colombia	0.0	0.0	-	-	0.2	0.3	-	0.1	-	-	-	-	0.1	0.2	0.1	-0.3	0.4	0.3
Indonesia	10.7	17.2	3.8	11.2	-	-	-	0.1	-	-	-	-	0.2	0.1	16.9	1.1	31.5	29.6
Kazakhstan	-	-	-	-	-	-	0.8	-	-	-	-	-	-	-	-0.6	0.0	0.2	0.0
Russia	3.5	1.7	0.8	1.1	2.2	1.3	8.5	8.8	-	-	-	-	-	0.0	-0.1	2.5	14.9	15.5
South Africa	0.1	-	0.7	0.3	0.2	0.5	-	-	-	-	-	-	0.2	-	-0.4	-0.3	0.8	0.6
Other Non-OECD	-	0.1	3.3	3.8	2.2	1.6	0.3	0.0	-	-	-	-	-	0.1	-5.3	-4.0	0.5	1.6
Tot. Imp./Exp.	**58.2**	**57.4**	**51.8**	**64.7**	**58.1**	**57.9**	**14.2**	**13.6**	**5.0**	**4.7**	**4.9**	**4.9**	**14.2**	**13.6**	**40.3**	**45.2**	**246.8**	**261.8**

Source: IEA/OECD Coal Statistics and Secretariat sources.

Notes: Data in columns OECD Europe, Japan and North America are import statistics. Data in rows Australia to Total OECD (except for above mentioned columns) are export statistics. Data in column World are export statistics.
All other data are based on national and international sources and estimates.
The sum of coking coal and steam coal may not add up to total hard coal due to rounding, which may also result in discrepancies among tables 3.2 to 3.4 and other trade data in this publication.

(1) Includes former USSR and former Yugoslavia.

(2) Includes exports of soft and semi-soft coking coal used for pulverised coal injection (PCI).

Table 3.5: World hard coal Imports - regional aggregates

(thousand tonnes)

	World	OECD	Non OECD	Europe	Former USSR	North America	Latin America	Asia	Aus. + N.Z.	Africa
1985	343022	270255	72767	162032	11400	16940	9675	139608	-	3367
1986	338869	262819	76050	159314	12500	15562	10284	137406	-	3803
1987	344148	262166	81982	156068	10900	15953	11632	145327	1	4267
1988	371490	280843	90647	156862	13700	19493	11161	165891	1	4382
1989	375651	285891	89760	159224	12100	17135	12651	170062	1	4478
1990	489070	305041	184029	170054	106521	16846	13348	178397	7	3897
1991	485855	325414	160441	176760	86656	15667	13751	188952	1	4068
1992	470895	322688	148207	174811	66125	17087	12806	196070	1	3995
1993	442466	309912	132554	153295	45945	15180	13733	210374	1	3938
1994	460280	329266	131014	158424	41610	16536	15101	224093	-	4516
1995	490744	349268	141476	167490	42896	17086	15676	242895	-	4701
1996	501011	359829	141182	172271	35657	19140	18043	250122	-	5778
1997	530358	381890	148468	181316	32820	21472	18973	269782	-	5995
1998	536898	387736	149162	186400	33847	25549	19421	264359	-	7322
1999	538175	393078	145097	178799	24040	26842	19689	281882	-	6923
2000	608012	441770	166242	202132	34460	32493	19684	311042	-	8201
2001	650397	475025	175372	220649	35578	42254	17762	324843	-	9311
2002	664595	473767	190828	213118	29556	35943	18601	357134	-	10243
2003	709254	501674	207580	226095	39057	43301	19193	371693	-	9915
2004	769614	538284	231330	245579	33922	41524	21794	415801	876	10118
2005	788856	538874	249982	244137	32265	48872	21436	430724	1084	10338
2006	853711	573768	279943	266178	37869	56181	22011	459585	1236	10651
2007	908121	590954	317167	269380	38806	55381	25629	507654	729	10542
2008e	922605	579966	342639	261986	38395	46240	29582	534280	606	11516

Table 3.6: World brown coal Imports - regional aggregates

(thousand tonnes)

	World	OECD	Non OECD	Europe	Former USSR	North America	Latin America	Asia	Aus. + N.Z.	Africa
1985	16078	15451	627	16046	15	-	-	17	-	-
1986	15985	13638	2347	14697	15	-	-	1273	-	-
1987	16604	13347	3257	14988	15	-	-	1601	-	-
1988	16656	13266	3390	15222	-	-	-	1434	-	-
1989	16165	12370	3795	15002	-	-	-	1163	-	-
1990	21137	13246	7891	17736	2576	-	-	825	-	-
1991	21707	16091	5616	19105	2600	-	-	2	-	-
1992	16767	12891	3876	14722	2043	1	-	1	-	-
1993	14604	11775	2829	12836	1765	2	-	1	-	-
1994	11668	9276	2392	9873	1793	1	-	1	-	-
1995	12384	9057	3327	9763	2348	2	-	271	-	-
1996	13620	9633	3987	10565	2321	469	-	265	-	-
1997	12167	8662	3505	8414	2244	967	-	542	-	-
1998	12378	7896	4482	6614	1505	2211	-	2048	-	-
1999	13427	8624	4803	5813	1473	3676	-	2465	-	-
2000	16158	9098	7060	5438	1451	4525	-	4744	-	-
2001	16472	7932	8540	5401	1477	3567	-	6027	-	-
2002	18070	11191	6879	3884	745	8197	-	5244	-	-
2003	19846	11619	8227	4221	1256	9228	-	5141	-	-
2004	18165	9119	9046	4223	1669	6544	-	5729	-	-
2005	17239	9457	7782	5015	655	6772	-	4797	-	-
2006	16769	8312	8457	5944	533	5042	-	5250	-	-
2007	19394	9422	9972	7463	415	5617	-	5898	1	-
2008e	21791	13185	8606	4223	122	9681	17	7717	1	30

Note: Prior to 1990 excludes trade within former USSR and former Yugoslavia.

Table 3.7: World hard coal imports - selected countries

(thousand tonnes)

	Belgium	France	Ger-many	Spain	UK	USA	Canada	Russia	India	China	Chinese Taipei	Japan	Korea
1985	9320	18835	15547	8416	12732	1771	14579	x	2030	2307	10091	93449	17131
1986	8521	16857	17165	8715	10554	2007	13311	x	2100	2471	10685	90392	16437
1987	9133	13309	14960	8886	9781	1585	14345	x	2970	1941	14022	90916	18279
1988	11065	12114	13304	8766	11685	1936	17477	x	3700	1743	17455	101241	22657
1989	12658	15943	11071	10569	12137	2587	14522	x	4410	2290	16852	101509	24216
1990	14761	19389	13580	10455	14783	2449	14169	53210	6046	2003	18527	106918	23729
1991	14421	21792	15423	12988	19611	3075	12567	46911	5272	1368	18444	112675	29094
1992	14014	21989	15452	14279	20339	3450	13003	39723	6495	1630	22139	110626	30781
1993	11894	14231	13090	12726	18400	6631	8468	28200	7330	1428	25345	112053	37381
1994	12659	12190	15483	11504	15088	6880	9366	27198	10556	1209	26721	121477	41009
1995	14099	13190	15052	13408	15896	6533	9735	22734	12512	1635	28698	127354	45831
1996	12814	15758	16348	11994	17799	6464	11740	20081	13175	3217	30907	130372	46074
1997	12796	13604	20031	11340	19757	6792	13504	20715	16440	2013	35777	136217	51997
1998	12634	18424	22249	14554	21244	7868	16494	21800	16535	1586	35083	130044	53586
1999	10836	17841	22678	20098	20293	8204	16129	16044	19700	1673	38669	138615	54569
2000	11347	18980	27948	21649	23446	11271	18790	25518	20930	2178	40708	150340	63724
2001	12681	15960	33511	18916	35542	18672	20141	27820	20548	2661	43074	154616	64967
2002	9906	18142	32607	24514	28686	16060	13987	20866	23260	11258	46570	161306	72051
2003	9390	16768	34917	21552	31891	22614	13451	25217	21683	11098	49529	166418	73607
2004	9790	19460	39536	24473	36153	24635	12797	22259	28484	18614	54757	180804	78963
2005	8804	19851	37105	24756	43968	27506	14104	22390	38586	26172	55455	176977	76758
2006	8056	20391	42132	23704	50529	32691	15868	25742	43081	38106	57061	179100	79707
2007	7415	18693	46287	24439	43365	32865	17057	23441	49794	51016	59344	186987	88285
2008e	7050	21285	46123	20967	43733	30912	11082	25833	59787	45616	66133	185568	99585

Table 3.8: World brown coal imports - selected countries

(thousand tonnes)

	Belgium	France	Ger-many	Spain	UK	USA	Canada	Russia	India	China	Chinese Taipei	Japan	Korea
1985	278	38	2652	2	-	-	-	x	-	-	-	-	-
1986	257	60	2478	2	-	-	-	x	-	-	-	-	-
1987	264	49	2162	2	-	-	-	x	-	-	-	-	-
1988	226	49	1883	-	-	-	-	x	-	-	-	-	-
1989	267	57	1990	-	-	-	-	x	-	-	-	-	-
1990	276	69	2083	1	-	-	-	-	-	-	-	-	-
1991	276	2	3428	-	-	-	-	-	-	-	-	-	-
1992	244	2	3640	-	-	-	-	-	-	-	-	-	-
1993	226	-	2991	-	-	-	-	-	-	-	-	-	-
1994	212	48	2623	265	-	-	-	5	-	-	-	-	-
1995	195	53	2132	481	-	-	-	-	-	-	59	-	-
1996	227	42	1950	136	-	-	467	-	-	-	241	-	-
1997	219	37	2151	-	-	-	965	89	-	-	442	-	-
1998	196	32	1944	-	-	46	2163	22	-	-	2010	-	-
1999	159	37	2053	-	-	41	3630	3	-	-	2435	-	-
2000	219	52	1796	-	-	80	4441	10	-	-	4701	-	-
2001	207	59	1997	-	-	79	3486	242	-	-	6017	-	-
2002	205	23	848	-	-	121	8074	-	-	-	5244	-	-
2003	188	42	35	-	-	107	9117	127	-	-	5141	-	-
2004	190	40	17	-	-	114	6426	170	-	-	5726	-	-
2005	206	36	9	-	-	128	6641	253	-	-	4797	-	-
2006	289	37	53	-	-	191	4848	341	-	-	5250	-	-
2007	317	51	27	-	-	108	5506	270	-	-	5888	-	-
2008e	103	67	28	-	-	119	9559	-	3083	71	78	-	-

Table 3.9: World coking coal Imports - regional aggregates

(thousand tonnes)

	World	OECD	Non OECD	Europe	Former USSR	North America	Latin America	Asia	Aus. + N.Z.	Africa
1985	167021	136369	30652	62499	-	6778	9212	85953	-	2579
1986	159611	127699	31912	59123	-	5879	9903	82079	-	2627
1987	164203	129116	35087	60688	-	5612	11248	83700	-	2955
1988	178687	142611	36076	64117	-	6335	10691	94548	-	2996
1989	177466	140855	36611	63718	-	5943	11335	93672	-	2798
1990	171198	136493	34705	61961	124	4719	11846	90289	7	2252
1991	169114	136519	32595	58107	120	4769	12288	91566	-	2264
1992	166756	130869	35887	58145	124	4848	11878	89345	-	2416
1993	164220	129411	34809	54714	291	4681	12087	89944	-	2503
1994	174306	132507	41799	56733	3297	4467	12238	94722	-	2849
1995	180282	133802	46480	59187	8176	4129	12343	93961	-	2486
1996	181565	136766	44799	59711	7319	4833	12721	94292	-	2689
1997	183772	136901	46871	62847	4887	4301	12158	96855	-	2724
1998	177150	135787	41363	63661	3402	5647	11845	89183	-	3412
1999	168822	130064	38758	56468	2351	5106	11120	90736	-	3041
2000	178465	138570	39895	59805	2961	5843	11232	95102	-	3522
2001	171744	132756	38988	55522	2605	6078	11030	93089	-	3420
2002	175554	133810	41744	53320	1642	6522	10786	98866	-	4418
2003	176366	130279	46087	51078	4342	4828	11228	100527	-	4363
2004	198310	140363	57947	56703	6830	5416	11200	113520	-	4641
2005	194434	135929	58505	57628	7770	5831	11127	107569	-	4509
2006	195957	139604	56353	60372	7932	5786	11020	106231	-	4616
2007	206931	143779	63152	62430	8568	4924	12197	114499	8	4305
2008e	222486	144188	78298	62892	7923	4866	13285	128953	7	4560

Table 3.10: World steam coal Imports - regional aggregates

(thousand tonnes)

	World	OECD	Non OECD	Europe	Former USSR	North America	Latin America	Asia	Aus. + N.Z.	Africa
1985	176001	133886	42115	99533	11400	10162	463	53655	-	788
1986	179258	135120	44138	100191	12500	9683	381	55327	-	1176
1987	179945	133050	46895	95380	10900	10341	384	61627	1	1312
1988	192803	138232	54571	92745	13700	13158	470	71343	1	1386
1989	198185	145036	53149	95506	12100	11192	1316	76390	1	1680
1990	317872	168548	149324	108093	106397	12127	1502	88108	-	1645
1991	316741	188895	127846	118653	86536	10898	1463	97386	1	1804
1992	304139	191819	112320	116666	66001	12239	928	106725	1	1579
1993	278246	180501	97745	98581	45654	10499	1646	120430	1	1435
1994	285974	196759	89215	101691	38313	12069	2863	129371	-	1667
1995	310462	215466	94996	108303	34720	12957	3333	148934	-	2215
1996	319446	223063	96383	112560	28338	14307	5322	155830	-	3089
1997	346586	244989	101597	118469	27933	17171	6815	172927	-	3271
1998	359748	251949	107799	122739	30445	19902	7576	175176	-	3910
1999	369353	263014	106339	122331	21689	21736	8569	191146	-	3882
2000	429547	303200	126347	142327	31499	26650	8452	215940	-	4679
2001	478653	342269	136384	165127	32973	36176	6732	231754	-	5891
2002	489041	339957	149084	159798	27914	29421	7815	258268	-	5825
2003	532888	371395	161493	175017	34715	38473	7965	271166	-	5552
2004	571304	397921	173383	188876	27092	36108	10594	302281	876	5477
2005	594422	402945	191477	186509	24495	43041	10309	323155	1084	5829
2006	657754	434164	223590	205806	29937	50395	10991	353354	1236	6035
2007	701190	447175	254015	206950	30238	50457	13432	393155	721	6237
2008e	700119	435778	264341	199094	30472	41374	16297	405327	599	6956

Note: Prior to 1990 excludes trade within former USSR and former Yugoslavia.

Table 3.11: World coking coal imports - selected countries

(thousand tonnes)

	Belgium	France	Ger-many	Spain	UK	USA	Canada	Russia	India	China	Chinese Taipei	Japan	Korea
1985	4663	7773	2235	4090	7150	-	6188	x	2030	200	2802	69242	8125
1986	4041	7614	2246	3097	6257	-	5635	x	2100	529	2717	66445	6575
1987	4874	7532	2200	3437	6492	-	5589	x	2970	224	3490	63935	9247
1988	6838	8165	2248	3643	7082	-	6255	x	3700	50	4687	71128	11237
1989	7064	7769	2281	4000	7998	-	5917	x	4410	303	4921	68689	11651
1990	7132	7848	1706	4169	8614	-	4491	-	5854	250	4237	64935	11287
1991	6426	7660	1057	4652	9196	-	4744	-	5272	408	4350	61839	15572
1992	5795	7457	1357	4343	8385	-	4848	-	6325	400	3748	57898	16381
1993	4748	6904	987	4572	8602	-	4681	-	6936	-	3915	57104	17321
1994	4444	6747	1093	3893	8065	-	4467	3237	9874	-	4032	60301	16902
1995	5267	7300	1427	3244	7754	-	4129	2215	9378	-	4390	59799	17151
1996	5325	7387	2189	3318	8245	-	4833	1708	10617	-	3946	59479	18226
1997	4328	7235	2536	3745	8072	-	4301	1274	11745	398	6033	59098	17395
1998	4195	7052	4299	3905	8646	1050	4597	292	10023	103	5636	53649	17979
1999	3953	6950	3519	3548	8020	1065	4041	2	10992	263	5375	54880	17227
2000	3818	6543	4608	3755	8462	1547	4296	200	11063	339	5158	57081	19575
2001	4169	6942	3984	3424	7723	2091	3987	-	11107	277	5373	56625	17899
2002	3363	6405	5174	3425	6315	2207	4315	-	12947	256	5272	58435	20003
2003	3220	5577	5504	3321	6474	1556	3272	-	12992	2605	5274	57744	20315
2004	3577	6798	6875	4043	6345	1987	3429	-	16925	6830	5078	60884	21808
2005	3533	6255	7152	3571	6551	1603	4228	866	16891	7195	4968	56530	20627
2006	3490	5995	8692	3622	6775	1533	4253	167	17877	4663	4872	57672	20081
2007	3247	5364	9627	3682	7482	1515	3409	-	22029	6219	4483	58199	22532
2008e	2993	7239	9255	3371	6349	1580	3286	-	28841	10269	5884	57367	24083

Table 3.12: World steam coal imports - selected countries

(thousand tonnes)

	Belgium	France	Ger-many	Spain	UK	USA	Canada	Russia	India	China	Chinese Taipei	Japan	Korea
1985	4657	11062	13312	4326	5582	1771	8391	x	-	2107	7289	24207	9006
1986	4480	9243	14919	5618	4297	2007	7676	x	-	1942	7968	23947	9862
1987	4259	5777	12760	5449	3289	1585	8756	x	-	1717	10532	26981	9032
1988	4227	3949	11056	5123	4603	1936	11222	x	-	1693	12768	30113	11420
1989	5594	8174	8790	6569	4139	2587	8605	x	-	1987	11931	32820	12565
1990	7629	11541	11874	6286	6169	2449	9678	53210	192	1753	14290	41983	12442
1991	7995	14132	14366	8336	10415	3075	7823	46911	-	960	14094	50836	13522
1992	8219	14532	14095	9936	11954	3450	8155	39723	170	1230	18391	52728	14400
1993	7146	7327	12103	8154	9798	6631	3787	28200	394	1428	21430	54949	20060
1994	8215	5443	14390	7611	7023	6880	4899	23961	682	1209	22689	61176	24107
1995	8832	5890	13625	10164	8142	6533	5606	20519	3134	1635	24308	67555	28680
1996	7489	8371	14159	8676	9554	6464	6907	18373	2558	3217	26961	70893	27848
1997	8468	6369	17495	7595	11685	6792	9203	19441	4695	1615	29744	77119	34602
1998	8439	11372	17950	10649	12598	6818	11897	21508	6512	1483	29447	76395	35607
1999	6883	10891	19159	16550	12273	7139	12088	16042	8708	1410	33294	83735	37342
2000	7529	12437	23340	17894	14984	9724	14494	25318	9867	1839	35550	93259	44149
2001	8512	9018	29527	15492	27819	16581	16154	27820	9441	2384	37701	97991	47068
2002	6543	11737	27433	21089	22371	13853	9672	20866	10313	11002	41298	102871	52048
2003	6170	11191	29413	18231	25417	21058	10179	25217	8691	8493	44255	108674	53292
2004	6213	12662	32661	20430	29808	22648	9368	22259	11559	11784	49679	119920	57155
2005	5271	13596	29953	21185	37417	25903	9876	21524	21695	18977	50487	120447	56131
2006	4566	14396	33440	20082	43754	31158	11615	25575	25204	33443	52189	121428	59626
2007	4168	13329	36660	20757	35883	31350	13648	23441	27765	44797	54861	128788	65753
2008e	4057	14046	36868	17596	37384	29332	7796	25833	30946	35347	60249	128201	75502

Table 3.13: OECD coke oven coke imports[1]

(thousand tonnes)

	1973	1980	1985	1990	1995	2000	2004	2005	2006	2007	2008e
Australia	-	-	-	-	-	-	-	-	51	44	7
Austria	1055	986	1274	815	718	981	1266	1402	1282	1438	1466
Belgium	1110	1261	676	822	1259	1108	277	152	68	217	824
Canada	357	267	340	339	818	631	265	88	997	864	1406
Czech Republic	-	-	-	-	320	602	756	510	705	735	591
Denmark	129	112	75	41	45	47	42	36	39	35	39
Finland	832	1229	1231	786	274	505	511	505	518	572	534
France	3646	3000	2147	1109	885	1448	1280	1525	1461	1067	1310
Germany	4497	4202	2693	2001	2601	5987	4410	3793	3687	4693	4347
Greece	45	35	53	32	11	1	4	4	3	2	1
Hungary	1207	1468	1486	478	351	5	189	205	51	27	16
Iceland	-	16	34	30	18	47	52	33	26	34	21
Ireland	13	8	22	29	6	-	-	-	-	-	-
Italy	82	101	134	115	745	506	1086	848	715	426	229
Japan	-	-	-	261	493	2467	2950	2500	1806	1999	1393
Korea	38	121	106	-	-	-	689	341	314	551	700
Luxembourg	3247	2292	1854	1447	521	-	-	-	-	-	-
Mexico	150	122	121	124	437	631	528	390	323	274	337
Netherlands	677	832	405	360	649	758	334	341	479	509	222
New Zealand	-	-	-	-	-	-	-	-	-	-	-
Norway	577	531	700	534	522	543	457	382	391	442	432
Poland	-	-	-	-	34	16	151	117	96	119	84
Portugal	38	102	157	13	34	-	10	6	-	1	4
Slovak Republic	922	130	268	456	178	155	287	260	516	455	415
Spain	459	553	209	172	846	137	170	136	155	136	204
Sweden	1495	453	386	318	484	328	500	393	217	266	319
Switzerland	158	127	77	27	24	27	20	20	26	22	24
Turkey	-	-	40	-	182	722	390	414	454	442	215
United Kingdom	53	-	374	304	640	483	1045	909	1009	1068	722
United States	978	598	524	694	1648	3430	6236	3202	3690	2232	3268
IEA Europe	*20242*	*17422*	*14261*	*9859*	*11329*	*14359*	*13185*	*11958*	*11872*	*12672*	*11998*
OECD Europe	*20242*	*17438*	*14295*	*9889*	*11347*	*14406*	*13237*	*11991*	*11898*	*12706*	*12019*
IEA North America	*1335*	*865*	*864*	*1033*	*2466*	*4061*	*6501*	*3290*	*4687*	*3096*	*4674*
OECD North America	*1485*	*987*	*985*	*1157*	*2903*	*4692*	*7029*	*3680*	*5010*	*3370*	*5011*
OECD Pacific	*38*	*121*	*106*	*261*	*493*	*2467*	*3639*	*2841*	*2171*	*2594*	*2100*
IEA Total	**21615**	**18408**	**15231**	**11153**	**14288**	**20887**	**23325**	**18089**	**18730**	**18362**	**18772**
OECD Total	**21765**	**18546**	**15386**	**11307**	**14743**	**21565**	**23905**	**18512**	**19079**	**18670**	**19130**

Source: *IEA/OECD Energy Statistics of OECD Countries*

(1) Solid product obtained from carbonization of coal, principally coking coal, used mainly in the iron and steel industry.
Also includes coke and semi-coke made from lignite.
For further information, see *Principles and Definitions*.

Table 3.14: World hard coal Exports - regional aggregates

(thousand tonnes)

	World	OECD	Non OECD	Europe	Former USSR	North America	Latin America	Asia	Aus. + N.Z.	Africa
1985	350192	258022	92170	57559	31200	111426	3166	9967	89036	47838
1986	350142	250931	99211	55590	35400	103448	5084	12039	92219	46362
1987	354569	249047	105522	48844	37700	98990	8938	16792	101452	41853
1988	387531	267936	119595	49932	46400	118021	11146	17718	99983	44331
1989	390005	269849	120156	46380	39800	124314	14176	19089	99155	47091
1990	504173	275210	228963	44559	139934	126918	15371	23593	103732	50066
1991	491107	290596	200511	36890	104936	132913	18590	29471	120792	47515
1992	484728	281833	202895	33698	92050	121120	16930	41769	127012	52149
1993	438963	261779	177184	33358	63598	95881	21441	40360	132540	51785
1994	449943	269158	180785	40479	53662	96432	22613	49427	132245	55085
1995	492418	296417	196001	44058	49630	114322	22553	63935	138036	59884
1996	513967	299097	214870	40110	48574	116539	28398	77504	142446	60396
1997	541154	311452	229702	40335	50876	112318	32685	81468	158801	64671
1998	548028	317104	230924	42931	49240	106283	35969	83884	167889	61832
1999	545569	297462	248107	37675	46889	86609	36760	97642	173194	66800
2000	612154	312596	299558	39018	67995	85092	43321	117840	188491	70397
2001	666191	314976	351215	47309	72661	73692	46428	162391	193970	69740
2002	658413	308608	349805	39729	69548	62612	43854	166539	206266	69865
2003	716512	313954	402558	35829	84830	67176	52392	193281	210959	72045
2004	755465	326857	428608	37433	96772	69098	57650	205673	220334	68505
2005	811748	340872	470876	34064	115139	73163	60833	222919	233642	71988
2006	864290	342151	522139	35282	122313	72852	69396	261113	234016	69318
2007	922858	364338	558520	35720	131211	83083	71995	288864	245602	66383
2008e	937752	385058	552694	25254	133057	105199	80387	277173	254750	61932

Table 3.15: World brown coal Exports - regional aggregates

(thousand tonnes)

	World	OECD	Non OECD	Europe	Former USSR	North America	Latin America	Asia	Aus. + N.Z.	Africa
1985	12093	11363	730	11838	-	30	-	225	-	-
1986	12734	11919	815	12290	-	37	107	300	-	-
1987	12388	11710	678	11745	-	32	-	611	-	-
1988	12285	11194	1091	11237	-	7	-	1041	-	-
1989	11486	10710	776	10700	-	10	-	776	-	-
1990	16030	10520	5510	10804	4657	79	-	490	-	-
1991	15231	11387	3844	11610	3445	55	-	121	-	-
1992	13611	10383	3228	10549	2919	55	-	88	-	-
1993	11764	10425	1339	10412	1323	29	-	-	-	-
1994	9094	8583	511	8538	505	51	-	-	-	-
1995	11280	8709	2571	8816	2462	-	-	2	-	-
1996	10364	7558	2806	8049	2303	11	-	1	-	-
1997	9065	7842	1223	7911	1152	2	-	-	-	-
1998	8910	7123	1787	6832	1782	293	-	3	-	-
1999	7712	5917	1795	5887	1727	47	-	51	-	-
2000	7295	5324	1971	5332	1790	55	-	118	-	-
2001	7698	5731	1967	5684	1593	161	-	260	-	-
2002	5883	4535	1348	4503	919	242	-	219	-	-
2003	6358	3337	3021	3702	1533	229	-	894	-	-
2004	8082	3779	4303	4075	565	309	-	3133	-	-
2005	9092	3985	5107	4131	799	351	-	3811	-	-
2006	11263	4399	6864	4325	828	430	-	5680	-	-
2007	13596	4290	9306	4223	848	678	-	7847	-	-
2008e	21741	6357	15384	4674	501	1779	-	14787	-	-

Note: Prior to 1990 excludes trade within former USSR and former Yugoslavia.

Table 3.16: World hard coal exports - selected countries

(thousand tonnes)

	Poland	Canada	USA	Aus-tralia	Co-lombia	Vene-zuela	Russia	Kazakh-stan	Ukraine	China	India	Indo-nesia	South Africa
1985	36124	27378	84048	88641	3166	-	x	x	x	7770	210	1081	47630
1986	34940	25904	77543	91937	5084	-	x	x	x	9817	160	942	46185
1987	30222	26740	72186	101152	8938	-	x	x	x	13530	170	892	41700
1988	32340	31732	86203	99618	10121	1025	x	x	x	15646	200	1037	44170
1989	28943	32817	91457	98669	12487	1689	x	x	x	15338	160	2546	46931
1990	28065	31000	95912	103396	13505	1834	56051	51480	22217	17290	100	4871	49900
1991	22464	34103	98809	120183	16379	2196	37402	51963	12722	20001	110	7615	47357
1992	22542	28165	92955	126242	14614	2309	40500	42459	7342	23363	130	16058	52059
1993	22968	28274	67602	131752	17616	3825	25881	33821	3101	19815	100	18239	51711
1994	27695	31695	64736	131201	18437	4135	23100	26000	4106	24194	673	21905	54838
1995	31868	33993	80329	136702	18274	4242	26263	20768	2400	28617	651	31322	59676
1996	28920	34448	82076	140856	24781	3617	25341	20840	2289	36485	478	36443	60224
1997	29466	36530	75788	157557	27580	5105	23493	24857	2374	35331	540	41727	64200
1998	28055	34183	72098	166796	30061	5908	24042	23294	1881	32297	823	47206	61300
1999	24102	33539	53001	171861	29932	6828	27709	17025	2138	37437	1156	55318	66235
2000	23245	32082	53006	186962	35391	7930	36737	28933	2320	55057	1292	57324	69910
2001	23029	29618	44066	192178	38868	7560	41553	27357	3729	90125	1903	65071	69210
2002	22623	26804	35805	204334	36510	7344	43497	22849	3092	83887	1517	74009	69231
2003	20119	28280	38896	208749	45644	6748	54625	27290	2912	93986	1627	89817	71531
2004	19684	25746	43351	218426	50902	6748	68616	24273	3883	86613	1294	104621	67946
2005	19369	28064	45095	231311	53607	7143	86006	25455	3666	71676	1989	127442	71442
2006	16735	27989	44860	231296	61968	7286	91391	27432	3457	63211	1554	171434	68747
2007	11900	29716	53359	243588	64575	7373	98054	29498	3621	53111	1627	196986	65821
2008e	7791	31513	73686	252189	73882	6425	101344	27069	4272	47370	1414	202595	61841

Table 3.17: World brown coal exports - selected countries

(thousand tonnes)

	Poland	Canada	USA	Aus-tralia	Co-lombia	Vene-zuela	Russia	Kazakh-stan	Ukraine	China	India	Indo-nesia	South Africa
1985	201	-	30	-	-	-	x	x	x	-	-	-	-
1986	1	-	37	-	-	-	x	x	x	-	-	-	-
1987	1	-	32	-	-	-	x	x	x	-	-	-	-
1988	-	7	-	-	-	-	x	x	x	-	-	-	-
1989	-	10	-	-	-	-	x	x	x	-	-	-	-
1990	193	9	70	-	-	-	3134	-	1433	-	-	-	-
1991	1275	10	45	-	-	-	2979	-	348	-	-	-	-
1992	1063	9	46	-	-	-	2896	-	-	-	-	-	-
1993	909	29	-	-	-	-	1321	-	-	-	-	-	-
1994	719	51	-	-	-	-	232	266	-	-	-	-	-
1995	368	-	-	-	-	-	2171	202	-	-	-	-	-
1996	45	11	-	-	-	-	2059	232	1	-	-	-	-
1997	37	-	2	-	-	-	883	223	-	-	-	-	-
1998	23	-	293	-	-	-	1620	109	-	-	-	-	-
1999	13	-	47	-	-	-	1604	73	-	-	-	-	-
2000	9	-	55	-	-	-	1592	147	9	-	-	65	-
2001	15	78	83	-	-	-	1245	299	-	-	-	210	-
2002	41	120	122	-	-	-	783	87	3	-	-	157	-
2003	36	109	120	-	-	-	1317	184	2	-	-	349	-
2004	27	117	192	-	-	-	315	211	2	-	-	1435	-
2005	8	140	211	-	-	-	552	212	-	-	-	1413	-
2006	-	251	179	-	-	-	539	248	-	-	-	2941	-
2007	-	364	314	-	-	-	584	225	-	-	-	4278	-
2008e	1	1516	263	-	-	-	361	120	20	-	-	11787	-

Table 3.18: World coking coal Exports - regional aggregates

(thousand tonnes)

	World	OECD	Non OECD	Europe	Former USSR	North America	Latin America	Asia	Aus. + N.Z.	Africa
1985	171237	152492	18745	25596	11000	77198	-	2604	49697	5142
1986	166686	144745	21941	23834	13000	71306	-	3074	49605	5867
1987	174310	146920	27390	22506	19000	69382	-	3635	55032	4755
1988	191276	161929	29347	21788	21000	83895	-	3331	56246	5016
1989	191948	164800	27148	21286	20000	87800	-	2987	55714	4161
1990	209032	162292	46740	19781	39348	84425	-	3759	58086	3633
1991	201968	169976	31992	16485	24136	87432	-	4333	66059	3523
1992	203048	161704	41344	16339	31664	77034	-	4592	68331	5088
1993	186032	161109	24923	17422	14077	68967	-	5979	74722	4865
1994	196261	158390	37871	15843	24848	70007	-	7259	72540	5764
1995	196144	169662	26482	18219	10692	75819	-	9484	75625	6305
1996	195057	170142	24915	14826	8078	76758	-	10704	78558	6133
1997	198820	175094	23726	12982	9865	77406	-	8211	84706	5650
1998	185727	165747	19980	10267	6723	71075	-	8090	84405	5167
1999	185376	161877	23499	10456	6601	58092	-	14366	93329	2532
2000	189410	168603	20807	9747	7715	58166	-	11348	100690	1744
2001	200954	164995	35959	8301	14792	49967	-	20194	106727	973
2002	187762	156601	31161	7640	9508	42503	-	20894	106458	759
2003	198425	159546	38879	6767	9868	43755	-	28427	109024	584
2004	196428	167676	28752	6761	12632	48196	-	15199	112723	917
2005	213038	185601	27437	6663	10774	52711	-	16106	126227	557
2006	220916	180273	40643	8092	10867	50149	-	29046	122032	730
2007	238782	195578	43204	7301	10436	55166	-	31911	133178	790
2008e	261847	209638	52209	4973	15895	65242	395	35298	139485	559

Table 3.19: World steam coal Exports - regional aggregates

(thousand tonnes)

	World	OECD	Non OECD	Europe	Former USSR	North America	Latin America	Asia	Aus. + N.Z.	Africa
1985	178955	105530	73425	31963	20200	34228	3166	7363	39339	42696
1986	183456	106186	77270	31756	22400	32142	5084	8965	42614	40495
1987	180259	102127	78132	26338	18700	29608	8938	13157	46420	37098
1988	196255	106007	90248	28144	25400	34126	11146	14387	43737	39315
1989	198057	105049	93008	25094	19800	36514	14176	16102	43441	42930
1990	295141	112918	182223	24778	100586	42493	15371	19834	45646	46433
1991	289139	120620	168519	20405	80800	45481	18590	25138	54733	43992
1992	281680	120129	161551	17359	60386	44086	16930	37177	58681	47061
1993	252931	100670	152261	15936	49521	26914	21441	34381	57818	46920
1994	253682	110768	142914	24636	28814	26425	22613	42168	59705	49321
1995	296274	126755	169519	25839	38938	38503	22553	54451	62411	53579
1996	318910	128955	189955	25284	40496	39781	28398	66800	63888	54263
1997	342334	136358	205976	27353	41011	34912	32685	73257	74095	59021
1998	362301	151357	210944	32664	42517	35208	35969	75794	83484	56665
1999	360193	135585	224608	27219	40288	28517	36760	83276	79865	64268
2000	422744	143993	278751	29271	60280	26926	43321	106492	87801	68653
2001	465237	149981	315256	39008	57869	23725	46428	142197	87243	68767
2002	470651	152007	318644	32089	60040	20109	43854	145645	99808	69106
2003	518087	154408	363679	29062	74962	23421	52392	164854	101935	71461
2004	559037	159181	399856	30672	84140	20902	57650	190474	107611	67588
2005	598710	155271	443439	27401	104365	20452	60833	206813	107415	71431
2006	643374	161878	481496	27190	111446	22703	69396	232067	111984	68588
2007	684076	168760	515316	28419	120775	27917	71995	256953	112424	65593
2008e	675905	175420	500485	20281	117162	39957	79992	241875	115265	61373

Note: Prior to 1990 excludes trade within former USSR and former Yugoslavia.

Table 3.20: World coking coal exports - selected countries

(thousand tonnes)

	Poland	Canada	USA	Aus-tralia	Co-lombia	Vene-zuela	Russia	Kazakh-stan	Ukraine	China	India	Indo-nesia	South Africa
1985	14450	22483	54715	49382	-	-	x	x	x	2500	-	103	5142
1986	13976	21431	49874	49323	-	-	x	x	x	2988	-	86	5867
1987	13639	22436	46882	54733	-	-	x	x	x	3579	-	56	4755
1988	13381	27609	56200	55881	-	-	x	x	x	3241	-	90	5016
1989	11467	28677	59083	55228	-	-	x	x	x	2896	-	91	4161
1990	11226	26851	57568	57750	-	-	31573	-	7775	3473	-	286	3633
1991	9767	28786	58645	65450	-	-	15633	-	8503	3840	-	493	3523
1992	10781	23124	53910	67561	-	-	24322	-	7342	3700	-	892	5088
1993	12829	23921	45044	73941	-	-	6729	4247	3101	4283	-	1696	4843
1994	10694	27066	42941	71496	-	-	17367	3375	4106	4906	254	2099	5764
1995	12296	28564	47255	74291	-	-	8693	1999	-	6744	329	2411	6305
1996	9886	28722	48036	76968	-	-	6538	1509	31	7487	188	3029	6133
1997	9138	30092	47314	83462	-	-	8450	1371	44	4601	272	3338	5650
1998	6506	28353	42722	83312	-	-	6440	271	12	4855	385	2850	5167
1999	6635	28946	29146	91996	-	-	6400	184	17	5246	774	8346	2517
2000	5290	28386	29780	99161	-	-	7300	393	22	6470	624	4254	1744
2001	3813	26914	23053	104935	-	-	14431	361	-	11445	879	7870	970
2002	3521	22964	19539	104526	-	-	9196	309	3	13295	163	7436	759
2003	2710	23716	20039	106814	-	-	9470	374	24	13135	158	15134	584
2004	3036	23847	24349	110815	-	-	11935	280	417	5757	114	9328	917
2005	3151	26710	26001	123896	-	-	9983	282	509	5260	46	10800	524
2006	3601	25203	24946	119312	-	-	10007	330	530	4344	107	24595	672
2007	2363	25968	29198	131164	-	-	10019	299	118	2543	36	29332	765
2008e	1563	26643	38599	136924	318	-	15501	1	40	4652	281	29575	559

Table 3.21: World steam coal exports - selected countries

(thousand tonnes)

	Poland	Canada	USA	Aus-tralia	Co-lombia	Vene-zuela	Russia	Kazakh-stan	Ukraine	China	India	Indo-nesia	South Africa
1985	21674	4895	29333	39259	3166	-	x	x	x	5270	210	978	42488
1986	20964	4473	27669	42614	5084	-	x	x	x	6829	160	856	40318
1987	16583	4304	25304	46419	8938	-	x	x	x	9951	170	836	36945
1988	18959	4123	30003	43737	10121	1025	x	x	x	12405	200	947	39154
1989	17476	4140	32374	43441	12487	1689	x	x	x	12442	160	2455	42770
1990	16839	4149	38344	45646	13505	1834	24478	51480	14442	13817	100	4585	46267
1991	12697	5317	40164	54733	16379	2196	21769	51963	4219	16161	110	7122	43834
1992	11761	5041	39045	58681	14614	2309	16178	42459	-	19663	130	15166	46971
1993	10139	4353	22558	57811	17616	3825	19152	29574	-	15532	100	16543	46868
1994	17001	4629	21795	59705	18437	4135	5733	22625	-	19288	419	19806	49074
1995	19572	5429	33074	62411	18274	4242	17570	18769	2400	21873	322	28911	53371
1996	19034	5726	34040	63888	24781	3617	18803	19331	2258	28998	290	33414	54091
1997	20328	6438	28474	74095	27580	5105	15043	23486	2330	30730	268	38389	58550
1998	21549	5830	29376	83484	30061	5908	17602	23023	1869	27442	438	44356	56133
1999	17467	4593	23855	79865	29932	6828	21309	16841	2121	32191	382	46972	63718
2000	17955	3696	23226	87801	35391	7930	29437	28540	2298	48587	668	53070	68166
2001	19216	2704	21013	87243	38868	7560	27122	26996	3729	78680	1024	57201	68240
2002	19102	3840	16266	99808	36510	7344	34301	22540	3089	70592	1354	66573	68472
2003	17409	4564	18857	101935	45644	6748	45155	26916	2888	80851	1469	74683	70947
2004	16648	1899	19002	107611	50902	6748	56681	23993	3466	80856	1180	95293	67029
2005	16218	1354	19094	107415	53607	7143	76023	25173	3157	66416	1943	116642	70918
2006	13134	2786	19914	111984	61968	7286	81384	27102	2927	58867	1447	146839	68075
2007	9537	3748	24161	112424	64575	7373	88035	29199	3503	50568	1591	167654	65056
2008e	6228	4870	35087	115265	73564	6425	85843	27068	4232	42718	1133	173020	61282

Table 3.22: OECD coke oven coke exports[1]

(thousand tonnes)

	1973	1980	1985	1990	1995	2000	2004	2005	2006	2007	2008e
Australia	-	122	11	574	334	22	260	1	-	-	-
Austria	82	2	5	1	1	1	42	4	3	5	5
Belgium	469	768	847	915	557	293	82	20	179	102	92
Canada	368	80	22	193	334	300	130	154	103	178	120
Czech Republic	3467	2450	1927	1451	1409	948	958	913	956	807	888
Denmark	-	-	1	-	-	-	2	-	-	-	-
Finland	24	5	13	1	2	-	-	-	-	3	3
France	1012	870	553	383	307	711	850	643	701	796	993
Germany	10197	7692	6038	2945	287	75	98	75	88	122	167
Greece	31	-	-	-	-	-	-	-	-	-	-
Hungary	103	-	-	-	420	183	80	53	211	269	251
Iceland	-	-	-	-	-	-	-	-	-	-	-
Ireland	-	-	-	-	-	-	-	-	-	-	-
Italy	628	747	451	201	130	123	244	229	220	215	239
Japan	600	2068	4055	1880	3428	2593	2035	1674	1966	1382	944
Korea	-	-	-	-	-	-	-	-	-	-	-
Luxembourg	-	-	-	-	-	-	-	-	-	-	-
Mexico	-	79	95	4	1	2	2	2	3	3	3
Netherlands	680	702	880	829	1089	830	346	358	810	566	366
New Zealand	-	-	-	-	-	-	-	-	-	-	-
Norway	51	36	122	5	-	2	-	2	-	-	1
Poland	2780	1770	1639	3662	3331	3691	5258	4624	6310	6337	5988
Portugal	16	-	-	11	74	80	-	-	-	-	-
Slovak Republic	-	13	23	-	58	59	54	138	138	140	227
Spain	2	3	11	42	81	744	985	610	1047	1053	624
Sweden	11	114	77	41	67	29	35	35	26	27	33
Switzerland	-	-	-	4	-	-	-	-	7	-	-
Turkey	-	-	-	-	-	-	-	-	-	-	-
United Kingdom	665	1265	1163	435	264	381	142	119	168	257	185
United States	1266	1879	1018	519	680	1039	1196	1585	1466	1310	1777
IEA Europe	*20218*	*16437*	*13750*	*10926*	*8077*	*8150*	*9176*	*7823*	*10864*	*10699*	*10062*
OECD Europe	*20218*	*16437*	*13750*	*10926*	*8077*	*8150*	*9176*	*7823*	*10864*	*10699*	*10062*
IEA North America	*1634*	*1959*	*1040*	*712*	*1014*	*1339*	*1326*	*1739*	*1569*	*1488*	*1897*
OECD North America	*1634*	*2038*	*1135*	*716*	*1015*	*1341*	*1328*	*1741*	*1572*	*1491*	*1900*
OECD Pacific	*600*	*2190*	*4066*	*2454*	*3762*	*2615*	*2295*	*1675*	*1966*	*1382*	*944*
IEA Total	**22452**	**20586**	**18856**	**14092**	**12853**	**12104**	**12797**	**11237**	**14399**	**13569**	**12903**
OECD Total	**22452**	**20665**	**18951**	**14096**	**12854**	**12106**	**12799**	**11239**	**14402**	**13572**	**12906**

Source: *IEA/OECD Energy Statistics of OECD Countries*

(1) Solid product obtained from carbonization of coal, principally coking coal, used mainly in the iron and steel industry.
Also includes coke and semi-coke made from lignite.
For further information, see *Principles and Definitions*.

4. PRICES

Table 4.1: Japan coking coal import costs

(average unit value, CIF, US$/t)

	Total[1] (all sources)	Australia	Canada	USA	South Africa	Russia[2]	China
1988	55.05	48.31	67.36	60.35	42.55	50.14	46.06
1989	58.39	52.58	69.73	63.34	47.68	54.65	52.08
1990	60.72	55.27	71.27	66.90	50.11	57.45	54.38
1991	60.61	56.64	71.85	66.16	51.94	56.86	53.22
1992	57.86	53.55	70.98	63.68	52.36	55.80	51.66
1993	55.39	51.49	67.12	61.82	46.78	54.37	50.52
1994	51.91	47.89	64.65	59.34	46.93	51.80	47.03
1995	55.03	51.15	64.49	61.37	49.54	54.81	49.49
1996	56.39	54.07	64.44	61.05	50.94	57.21	51.88
1997	55.19	52.73	64.84	61.24	49.64	57.09	49.98
1998	50.98	49.47	59.73	59.53	47.06	54.63	46.78
1999	42.95	41.83	51.05	55.79	39.74	45.17	40.01
2000	39.46	39.01	45.46	52.69	39.99	43.62	37.12
2001	41.13	40.96	47.30	47.81	47.09	45.52	39.35
2002	42.14	43.32	50.50	52.07	x	45.59	38.97
2003	41.73	43.56	51.64	42.93	x	46.05	39.09
2004	61.40	56.85	62.04	163.61	x	67.98	72.57
2005	88.80	96.44	106.05	159.01	x	114.96	100.45
2006	93.10	106.20	125.68	159.35	x	116.69	91.98
2007	88.43	96.03	112.61	516.32	x	105.45	100.91
2008	184.13	206.71	234.34	308.56	x	250.90	256.42

Note: It should be noted that as a result of the import coal classification system used by Japanese customs authorities, most imports of Indonesian coal are recorded by customs as coking coal even though most of the coal is not used in the metallurgical industry. As this coal has a lower unit value than coking coal reported in other categories, the data presented in the Total column in this table, from 1991 onwards, tend to understate the total average unit value of coals imported into Japan for metallurgical use. Prior to 1991, the volume of imports reported by customs in this manner was not so large as to significantly affect the total averages.

Table 4.2: EU coking coal import costs from selected countries

(Average Unit Value, CIF, US$/t)

	Total[1] (all sources)	Australia	Canada	USA	South Africa	Russia[2]	Poland
1988	56.95	53.10	52.85	57.30	39.86	50.68	54.82
1989	58.09	53.87	57.32	58.38	36.57	53.49	56.77
1990	65.01	67.29	64.53	63.07	58.81	57.44	63.98
1991	61.75	60.84	60.80	61.65	51.55	51.33	59.20
1992	60.95	60.76	61.51	61.22	50.54	47.95	59.64
1993	55.82	55.67	55.40	57.13	48.21	36.22	54.09
1994	55.97	55.56	52.42	58.22	44.13	46.11	53.55
1995	58.49	57.03	57.02	61.20	49.65	56.00	59.26
1996	59.74	59.72	58.52	62.03	47.44	59.88	61.11
1997	57.99	57.97	57.61	60.08	43.31	54.93	61.02
1998	54.53	55.00	54.18	58.53	35.83	51.08	52.52
1999	48.97	47.33	45.58	54.14	36.21	57.96	47.48
2000	47.88	45.45	45.92	52.91	39.09	42.02	50.43
2001	53.56	51.24	54.59	58.54	42.10	58.89	51.58
2002	56.63	55.52	56.90	61.48	38.69	58.11	50.15
2003	59.61	58.03	61.31	64.18	39.20	47.45	62.24
2004	78.12	73.63	76.64	84.75	61.31	86.41	108.71
2005	109.61	114.89	113.81	110.91	71.77	86.05	138.92
2006	125.86	135.52	137.66	123.44	66.18	81.34	118.82
2007	125.73	127.74	129.45	126.95	96.82	92.15	139.47
2008	197.84	220.54	220.91	175.35	141.18	147.83	245.85

Source: *IEA/OECD Energy Prices & Taxes* (Table 21 and Table 19)

(1) Weighted average based only on imports for which prices are available. Calculated average prices may not be comparable from one year to the next due to differing components.

(2) Former USSR prior to 1991.

Table 4.3: Japan steam coal import costs

(average unit value, CIF, US$/t)

	Total[1] (all sources)	Australia	USA	South Africa	Russia[2]	China	Canada
1988	42.64	43.34	48.05	41.16	40.24	38.52	42.96
1989	48.84	49.78	52.78	44.67	45.43	45.74	45.38
1990	50.97	52.23	53.17	47.95	46.54	47.59	48.26
1991	50.43	51.68	52.36	48.36	44.93	47.69	46.76
1992	48.47	49.29	51.22	46.93	43.73	46.04	46.30
1993	45.92	46.31	51.05	44.34	40.24	43.55	45.76
1994	43.88	44.92	49.91	42.47	38.68	39.05	42.88
1995	47.85	48.87	52.65	48.27	43.45	44.48	44.20
1996	49.29	50.24	54.32	49.86	44.63	46.52	45.91
1997	45.26	45.59	49.86	46.58	42.57	44.73	42.01
1998	40.68	40.80	47.52	41.50	38.46	39.96	38.25
1999	35.87	36.12	45.37	37.34	30.24	34.89	33.50
2000	34.59	34.59	45.49	35.82	30.68	33.69	34.72
2001	37.95	38.32	45.99	38.05	37.61	36.95	36.94
2002	36.95	37.39	48.63	40.30	34.35	36.25	37.34
2003	34.93	35.13	x	35.21	34.28	35.28	33.82
2004	51.48	50.20	186.48	x	59.02	55.06	52.60
2005	62.73	61.90	x	80.64	66.10	65.65	63.79
2006	63.33	63.90	596.68	x	62.20	63.88	56.32
2007	70.92	71.03	553.99	77.46	72.28	73.60	66.04
2008	125.42	127.23	151.26	105.49	121.34	124.10	125.52

Table 4.4: EU steam coal import costs from selected countries

(average unit value, CIF, US$/t)

	Total[1] (all sources)	Australia	USA	South Africa	Russia[2]	China	Poland	Colombia
1988	46.49	43.69	54.21	37.44	38.63	39.56	51.56	39.48
1989	49.26	48.07	53.40	42.67	44.19	47.36	56.46	47.35
1990	52.64	52.03	54.69	45.18	44.69	49.36	61.05	52.60
1991	50.69	49.14	51.51	45.31	42.54	47.14	58.18	49.81
1992	48.59	50.07	50.69	42.48	39.50	45.46	54.11	49.65
1993	37.99	38.85	46.96	32.86	24.10	45.65	36.60	35.39
1994	40.35	40.74	46.05	36.18	36.67	41.78	41.44	39.68
1995	47.51	45.06	49.12	43.76	42.55	45.29	46.78	43.42
1996	45.62	48.25	48.03	42.23	42.48	46.18	46.50	41.93
1997	43.52	46.38	48.47	40.33	39.84	52.87	42.62	42.29
1998	39.72	40.03	46.99	36.30	37.23	52.85	39.61	37.56
1999	34.43	36.68	40.67	31.78	30.96	32.58	35.03	32.69
2000	35.22	39.04	41.07	33.83	33.59	31.45	35.30	34.22
2001	42.96	44.13	46.52	42.32	42.16	40.90	44.41	42.32
2002	38.69	43.28	43.48	36.65	36.79	44.30	40.75	36.99
2003	41.94	46.83	47.37	39.10	42.22	51.38	43.26	41.65
2004	61.91	69.05	61.50	58.00	65.14	60.61	68.95	61.54
2005	71.27	106.40	86.75	67.64	68.46	93.41	78.34	67.98
2006	69.80	109.71	82.08	66.24	67.93	150.20	75.65	66.07
2007	82.21	103.73	97.50	80.25	79.03	73.02	94.13	78.16
2008	137.79	184.75	138.40	142.07	131.62	161.12	156.01	138.32

Source: *IEA/OECD Energy Prices & Taxes* (Table 16 and Table 14)

(1) Weighted average based only on imports for which prices are available. Calculated average prices may not be comparable from one year to the next due to differing components.

(2) Former USSR prior to 1991.

Table 4.5: Steam coal export costs

(Average Unit Value, US$/t)

Exported from:	Australia (FOB)			Canada	United States (FAS)			Colombia	Indonesia	S. Africa
To:	Total	Japan	EU[1]	Total	Total	Japan	EU[1]	Total	Total	Total
1988	30.77	32.93	27.18	34.25	42.06	39.94	41.14	..	..	27.27
1989	35.93	37.98	32.56	37.71	41.17	43.04	40.45	..	..	29.36
1990	38.34	40.03	35.25	40.37	39.99	41.76	42.54	..	42.75	30.53
1991	37.93	40.32	34.05	40.35	40.63	39.73	41.50	..	42.23	30.19
1992	36.49	38.85	32.47	38.15	39.53	39.66	40.90	..	41.22	29.53
1993	33.45	35.49	30.02	34.61	39.78	39.08	41.60	..	38.52	25.38
1994	32.75	33.72	29.09	31.51	38.22	37.13	40.23	..	36.40	23.89
1995	34.99	36.85	31.05	32.90	38.94	38.61	40.91	..	42.71	29.20
1996	37.77	38.89	33.19	35.67	36.94	40.02	36.80	31.81	42.71	30.63
1997	34.35	35.40	31.76	32.44	34.84	38.55	35.88	33.84	39.90	31.47
1998	30.10	31.50	24.54	30.24	32.24	37.00	33.05	30.51	35.82	26.37
1999	26.49	27.02	21.63	25.72	32.02	35.40	29.39	27.25	31.00	22.77
2000	24.27	24.72	20.86	24.99	31.84	34.90	28.26	26.99	29.60	22.63
2001	28.71	29.69	25.86	26.01	34.51	37.70	34.69	31.36	32.07	28.59
2002	28.01	29.20	24.42	28.11	37.70	40.41	33.09	30.09	29.98	25.82
2003	25.41	26.00	25.18	35.75	37.00	166.40	32.18	36.41	25.00	24.47
2004	37.65	38.45	34.44	44.75	53.93	91.47	42.06	59.55	38.00	32.77
2005	48.86	49.42	49.46	53.23	67.09	105.21	76.79	51.89	44.50	46.46
2006	47.05	50.59	49.29	45.24	55.66	166.53	64.17	51.92	47.25	45.90
2007	51.11	54.61	55.42	50.51	52.61	198.41	66.30	57.76	60.91	51.06
2008	92.23	103.23	102.85	97.37	62.76	143.02	81.46	120.27	115.48	88.19

Table 4.6: Coking coal export costs

(Average Unit Value, US$/t)

Exported from:	Australia (FOB)			Canada	United States (FAS)			Colombia	Indonesia	S. Africa
To:	Total	Japan	EU[1]	Total	Total	Japan	EU[1]	Total [2]	Total	Total
1988	40.27	40.02	37.64	53.80	48.69	47.76	48.58	..	..	30.35
1989	44.69	44.27	43.86	56.41	49.82	48.31	50.03	..	..	37.37
1990	47.72	46.98	48.00	59.23	51.55	50.34	52.41	..	..	38.84
1991	47.96	47.24	48.23	57.37	50.80	50.18	51.33	42.22	..	43.31
1992	46.78	46.44	46.53	57.08	50.01	49.58	51.72	36.50	..	40.35
1993	44.28	43.85	44.06	52.73	48.63	47.99	50.71	..	..	41.16
1994	41.36	40.24	41.41	48.03	47.11	44.72	49.82	..	..	37.48
1995	44.23	43.37	44.45	48.76	48.47	45.35	51.13	..	..	39.66
1996	47.56	46.11	48.56	51.52	50.05	46.51	53.12	..	..	39.68
1997	47.37	45.52	47.73	50.04	49.99	45.94	52.87	..	..	37.72
1998	43.97	42.47	44.10	46.15	48.55	45.98	51.67	31.97	..	31.39
1999	35.99	34.60	37.59	38.19	46.19	44.46	49.27	31.26	..	34.38
2000	32.85	31.64	33.66	34.01	42.98	41.99	45.58	33.15	..	32.09
2001	36.93	34.46	39.99	43.03	45.88	x	50.10	..	..	37.81
2002	40.16	36.79	44.34	43.90	50.06	x	53.14	..	..	32.43
2003	39.75	36.18	43.14	44.59	49.11	56.01	52.19	..	..	27.91
2004	48.84	45.51	51.43	51.37	70.14	98.14	63.60	..	..	43.15
2005	88.94	83.74	100.84	96.26	89.91	100.61	89.53	..	..	53.00
2006	98.27	94.04	106.29	109.29	111.72	89.80	102.37	..	..	54.94
2007	84.16	79.50	93.67	98.44	98.10	x	99.84	..	..	67.93
2008	194.87	193.79	215.74	209.51	148.39	157.59	132.75	..	..	114.58

Sources: *IEA/OECD Energy Prices & Taxes* (Tables 23 to 27) for Australia, Canada and the US, *Latin America Coal & Power* for Colombia prior to 2003, *Indonesia Mineral and Coal Statistics 2004* for Indonesia prior to 2003, *Coal Americas, Energy Publishing Inc.* for Colombia and Indonesia 2003 onwards, Republic of S. Africa Minerals Bureau for South Africa prior to 2004, Xavier Provost, private consultant since 2004.

(1) Weighted average based only on imports for which prices are available. Calculated average prices may not be comparable from one year to the next due to differing components.

(2) Low ash bituminous; injection grade to Japanese steel mills

Table 4.7: Coking coal prices for industry

(US$/tce)

	1978	1980	1991	1992	1993	1994	1995	1996	1997	1998
Australia	29.69	29.57	..	..	..	..	..	..	..	..
Austria	..	..	..	..	..	..	..	..	..	..
Belgium	63.67	66.51	60.99	57.73	56.16	54.21	57.55	57.49	57.58	55.48
Canada	62.70	64.82	..	..	..	..	..	..	..	..
Czech Republic	..	..	49.47	54.18	53.38	57.84	64.92	58.11	56.28	58.08
Denmark	..	..	..	..	..	..	..	..	..	..
Finland	..	..	..	..	..	..	101.01	101.95	106.56	107.06
France	51.84	58.46	61.60	62.68	54.19	58.42	59.55	58.50	55.72	53.43
Germany	62.91	71.78	62.74	62.22	58.60	56.65	60.34	60.96	60.05	56.13
Greece	..	..	..	..	..	..	..	..	..	..
Hungary	..	..	..	..	..	..	..	..	..	..
Ireland	..	..	..	..	..	..	..	..	..	..
Italy	69.79	69.57	64.01	62.18	57.87	56.52	60.70	62.50	61.12	59.26
Japan	72.47	73.35	66.81	64.12	61.91	57.94	61.13	62.87	62.65	58.61
Korea	..	..	..	..	..	..	..	..	..	..
Luxembourg	..	..	..	..	..	..	..	..	..	..
Mexico	..	..	..	..	..	..	..	..	..	..
Netherlands	105.55	131.85	140.46	..	..	..	..	..	..	..
New Zealand	..	..	..	..	..	..	..	..	..	..
Norway	..	116.19	90.07	93.98	79.82	80.55	89.69	..	..	..
Poland	..	..	38.08	35.16	39.80	54.93	60.05	56.20	49.94	47.08
Portugal	175.90	243.16	51.65	46.28	38.48	37.60	43.92	45.25	42.79	37.82
Slovak Republic	27.50	28.29	52.83	57.53	..	..	..	..	..	..
Spain	68.57	103.43	..	..	..	..	..	..	..	..
Sweden	64.11	72.84	..	..	..	..	..	..	..	..
Switzerland	..	127.61	..	..	..	..	..	..	..	..
Turkey	70.23	83.99	58.05	53.60	54.69	51.02	86.05	100.82	110.65	94.11
United Kingdom	..	..	..	..	..	..	..	..	..	..
United States	48.94	61.20	53.14	52.15	51.62	50.66	51.52	51.52	51.58	50.15

	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Australia	..	..	..	..	..	..	..	..	..	..
Austria	..	..	..	..	..	..	..	..	..	..
Belgium	49.29	47.21	54.03	..	..	..	..	..	..	..
Canada	..	..	..	..	..	..	..	..	..	..
Czech Republic	56.79	50.73	55.32	65.73	..	..	..	..	..	..
Denmark	..	..	..	..	..	..	..	..	..	..
Finland	105.93	99.78	105.14	109.88	126.04	158.63	196.65	203.29	225.89	382.62
France	47.44	45.43	50.42	58.03	59.67	72.00	106.19	127.95	119.55	207.93
Germany	..	..	..	..	..	..	..	..	..	..
Greece	..	..	..	..	..	..	..	..	..	..
Hungary	..	..	..	..	..	..	..	..	..	..
Ireland	..	..	..	..	..	..	..	..	..	..
Italy	52.70	53.26	58.22	60.99	63.48	81.00	108.96	117.95	124.19	199.90
Japan	49.64	45.29	46.93	48.88	48.81	69.33	104.02	112.09	108.07	220.66
Korea	..	..	..	..	..	72.66	116.53	120.23	110.12	247.02
Luxembourg	..	..	..	..	..	..	..	..	..	..
Mexico	..	..	..	..	..	..	..	..	..	..
Netherlands	..	..	..	..	..	..	..	..	..	..
New Zealand	..	..	..	..	..	..	..	..	..	..
Norway	..	..	..	..	..	..	..	..	..	..
Poland	38.32	39.10	46.73	47.46	51.92	95.31	114.57	94.24	111.17	222.20
Portugal	31.74	31.67	38.85	32.64	38.73	..	..	..	..	..
Slovak Republic	..	..	..	..	..	..	..	..	..	..
Spain	..	..	..	..	..	..	..	..	..	..
Sweden	..	..	..	..	..	..	..	..	..	..
Switzerland	..	..	..	..	..	..	..	..	..	..
Turkey	70.90	80.19	71.75	86.26	92.36	118.78	148.07	161.57	200.52	258.70
United Kingdom	..	..	..	..	..	..	..	..	..	..
United States	49.91	48.41	50.67	55.73	55.15	66.99	91.26	101.49	103.44	128.62

Source: *IEA/OECD Energy Prices & Taxes*

Table 4.8: Steam coal prices for industry

(US$/tce)

	1978	1980	1991	1992	1993	1994	1995	1996	1997	1998
Australia	..	..	..	..	..	..	..	..	..	..
Austria	90.20	119.83	78.62	85.47	71.65	70.46	82.29	74.31	64.91	64.72
Belgium	29.62	42.87	51.69	..	..	..	..	..	..	..
Canada	43.98	42.74	..	..	..	..	..	..	..	..
Czech Republic	..	..	21.41	25.69	26.70	27.50	31.30	29.84	27.73	29.43
Denmark	76.39	95.46	115.13	115.92	75.90	74.21	84.94	..	..	..
Finland	51.74	77.80	68.79	66.21	53.56	65.45	96.93	89.18	98.95	97.05
France	61.82	107.40	124.92	134.18	126.83	129.90	145.13	142.46	125.17	126.61
Germany	98.52	120.31	182.57	206.06	195.74	200.20	..	..	..	..
Greece	93.42	119.98	..	..	..	..	..	..	..	..
Hungary	..	50.47	100.57	109.07	123.25	..	..	..	62.66	66.26
Ireland	..	..	..	..	..	..	..	..	..	..
Italy	70.05	56.68	57.97	52.09	53.22	51.12	57.35	55.92	53.73	46.24
Japan	71.23	74.99	68.23	63.45	67.63	57.78	62.00	63.93	59.78	53.76
Korea	..	32.73	58.93	55.40	53.85	53.72	56.01	53.71	45.46	33.38
Luxembourg	..	..	..	..	..	..	..	..	..	..
Mexico	..	..	..	..	..	..	..	..	..	..
Netherlands	57.76	62.94	58.87	..	..	..	..	..	..	..
New Zealand	36.23	41.62	..	..	..	..	..	..	..	..
Norway	39.79	62.32	50.02	42.59	33.27	45.45	..	..	..	..
Poland	..	..	30.94	33.61	35.03	44.62	51.77	52.50	50.53	57.85
Portugal	..	..	..	..	..	..	..	..	47.43	35.69
Slovak Republic	7.88	8.51	12.16	12.77	..	..	..	..	35.95	35.36
Spain	..	..	..	..	..	..	..	..	..	..
Sweden	77.55	93.41	113.90	..	..	..	..	..	..	..
Switzerland	68.81	95.71	69.98	63.07	53.54	55.73	71.06	69.84	59.54	58.75
Turkey	..	86.47	82.35	87.38	69.97	52.26	58.81	60.50	63.09	61.75
United Kingdom	49.74	91.28	86.33	85.14	68.02	68.61	65.61	61.64	62.89	64.98
United States	36.26	41.85	39.90	39.08	38.71	38.76	38.59	38.45	38.59	38.42

	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Australia	..	..	..	..	..	..	..	..	..	..
Austria	56.93	54.73	56.42	75.33	87.64	171.25	178.69	181.33	203.12	246.52
Belgium	..	..	..	..	..	..	..	..	..	..
Canada	..	..	..	..	..	..	..	..	..	..
Czech Republic	28.33	26.96	28.43	33.87	..	..	..	..	..	..
Denmark	..	..	..	..	..	..	..	..	..	..
Finland	97.39	89.47	97.40	96.68	113.53	140.81	146.63	149.81	166.59	249.09
France	121.78	105.48	107.49	109.32	130.49	..	..	..	..	..
Germany	..	..	..	..	..	..	..	..	..	..
Greece	..	..	..	..	..	..	..	..	..	..
Hungary	..	..	..	..	..	..	..	..	..	..
Ireland	..	..	..	..	..	..	..	..	..	..
Italy	37.90	43.46	50.90	47.01	48.09	72.13	83.23	78.59	97.48	163.22
Japan	47.47	45.68	49.69	48.29	45.29	67.16	81.25	87.10	97.98	167.62
Korea	49.56	58.36	51.13	52.96	58.42	57.88	66.77	61.12	75.29	124.80
Luxembourg	..	..	..	..	..	..	..	..	..	..
Mexico	..	..	..	..	..	..	..	..	..	..
Netherlands	..	..	..	..	..	..	..	..	..	..
New Zealand	..	..	..	..	..	..	..	..	..	..
Norway	..	..	..	..	..	..	..	..	..	..
Poland	49.23	48.83	54.39	50.23	56.63	65.40	71.39	81.68	96.83	130.45
Portugal	32.14	37.98	46.43	39.74	47.00	..	..	..	..	..
Slovak Republic	31.85	..	..	..	..	..	..	..	..	..
Spain	..	..	..	..	..	..	..	..	..	..
Sweden	..	..	..	..	..	..	..	..	..	..
Switzerland	55.12	60.13	68.67	61.64	75.26	110.08	110.03	111.25	145.85	252.48
Turkey	57.96	53.26	52.41	69.46	73.39	67.16	78.71	79.99	115.02	152.51
United Kingdom	62.93	59.32	63.69	65.08	70.29	86.76	99.65	99.17	113.43	138.93
United States	37.60	37.77	39.02	39.97	40.73	46.79	56.31	61.57	64.85	75.60

Source: *IEA/OECD Energy Prices & Taxes*

Table 4.9: Steam coal prices for electricity generation

(US$/tce)

	1978	1980	1991	1992	1993	1994	1995	1996	1997	1998
Australia	10.83	14.47	30.35	..	..	..	..	..	..	..
Austria	173.19	176.96	84.42	91.71	84.81	76.78	..	..	..	..
Belgium	53.08	62.51	58.83	61.34	54.42	52.55	57.28	59.85	55.95	44.82
Canada	37.88	48.61	62.48	61.15	..	..	..	..	..	..
Czech Republic	10.29	11.54	18.16	20.59	21.28	22.79	26.48	27.10	24.42	26.02
Denmark	..	55.86	..	..	..	..	..	..	..	..
Finland	51.74	77.80	68.79	66.21	53.56	65.45	96.93	89.18	59.94	49.45
France	..	56.31	52.77	51.70	49.22	49.21	55.34	54.15	53.83	46.68
Germany	83.97	100.08	136.62	150.89	140.59	143.31	163.77	56.55	49.61	47.17
Greece	..	..	..	..	..	..	..	..	..	..
Hungary	..	33.66	76.05	81.11	78.29	..	..	..	..	..
Ireland	..	..	57.87	56.69	46.09	46.30	53.27	57.53	51.66	41.07
Italy	41.32	57.37	66.49	72.20	66.87	64.15	65.27	67.66	63.14	56.89
Japan	90.58	90.23	98.73	95.49	95.25	89.58	92.27	87.88	74.99	63.46
Korea	..	..	..	..	..	..	..	..	..	..
Luxembourg	..	..	..	..	..	..	..	..	..	..
Mexico	..	33.41	55.04	51.43	48.07	47.79	39.17	36.19	41.14	39.66
Netherlands	40.99	63.99	72.51	76.37	68.71	..	..	..	..	..
New Zealand	..	..	..	..	..	..	..	..	..	..
Norway	..	..	..	..	..	..	..	..	..	..
Poland	..	3.31	25.81	25.66	31.16	41.21	43.52	41.72	40.84	44.20
Portugal	31.26	44.39	60.18	53.99	45.15	44.63	50.80	51.69	48.20	41.25
Slovak Republic	4.30	4.81	7.61	8.59	..	..	..	..	24.33	23.73
Spain	42.60	69.75	..	..	..	..	..	..	..	..
Sweden	50.00	91.90	..	..	..	..	..	..	..	..
Switzerland	..	..	..	..	..	..	..	..	..	..
Turkey	..	49.88	40.08	46.80	56.66	46.35	62.46	62.04	54.68	55.64
United Kingdom	52.18	91.65	94.95	99.64	78.91	68.90	68.61	68.06	68.44	61.89
United States	29.96	36.39	38.29	37.27	36.36	35.58	34.58	33.82	33.40	32.86

	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Australia	..	..	..	..	..	..	..	..	..	..
Austria	..	56.94	48.41	55.78	68.29	86.09	92.70	98.23	101.93	131.48
Belgium	39.63	42.95	49.46	45.21	47.13	95.02	105.36	82.93	99.07	171.19
Canada	..	20.54	21.27	22.02	24.15	23.34	28.16	30.19	..	..
Czech Republic	26.43	21.88	22.10	23.40	..	..	..	..	..	..
Denmark	..	..	..	..	..	..	..	..	..	..
Finland	45.31	44.40	53.62	50.59	55.49	76.99	82.82	85.36	96.21	164.25
France	43.11	41.98	51.04	48.35	47.85	71.64	84.41	82.15	94.53	153.44
Germany	42.45	42.94	52.51	46.27	50.64	70.87	80.73	78.92	91.38	154.47
Greece	..	..	..	..	..	..	..	..	..	..
Hungary	..	..	..	..	..	..	..	..	..	..
Ireland	34.88	34.26	39.99	42.37	40.16	75.99	79.21	69.22	94.31	112.40
Italy	..	..	..	..	..	..	..	..	..	..
Japan	55.83	51.42	53.65	49.77	..	..	..	..	..	..
Korea	..	..	..	..	..	50.51	58.44	54.73	63.96	96.49
Luxembourg	..	..	..	..	..	..	..	..	..	..
Mexico	44.02	48.69	51.94	51.56	49.13	56.83	62.69	64.79	70.26	80.19
Netherlands	..	..	..	..	..	..	..	..	..	..
New Zealand	..	..	..	..	..	..	..	..	..	..
Norway	..	..	..	..	..	..	..	..	..	..
Poland	39.56	38.86	43.31	44.13	49.33	54.89	65.19	69.75	79.21	108.70
Portugal	36.10	34.67	44.23	37.06	44.00	65.92	77.51	66.84	87.61	158.38
Slovak Republic	20.47	..	..	..	..	..	..	..	..	..
Spain	..	..	..	..	..	..	..	..	..	..
Sweden	..	..	..	..	..	..	..	..	..	..
Switzerland	..	..	..	..	..	..	..	..	..	..
Turkey	54.01	50.45	35.92	53.19	66.45	90.65	88.29	86.87	97.12	113.22
United Kingdom	58.20	55.02	57.50	55.10	56.85	73.98	81.19	86.73	102.00	148.68
United States	31.92	31.51	32.33	32.91	33.33	35.48	40.50	44.47	46.45	54.40

Source: *IEA/OECD Energy Prices & Taxes*

5. COAL FOR OTHER USES

Table 5.1: OECD coal-fired and total electricity generating capacity, 1990 to 2007

(GW)

	Coal				Total			
	1990	**2005**	**2006**	**2007**	**1990**	**2005**	**2006**	**2007**
Australia	23.02	28.89	28.65	29.42	35.50	50.89	51.30	53.51
Austria	1.89	2.25	2.31	2.38	16.69	18.91	19.20	19.46
Belgium	4.90	4.09	2.10	..	14.14	16.10	16.26	16.38
Canada	19.24	..	..	..	104.14	122.84	123.95	124.72
Czech Republic	12.11	11.46	11.53	11.51	15.28	17.41	17.51	17.56
Denmark	7.54	5.91	5.87	6.17	9.14	13.35	13.02	12.61
Finland	5.79	7.76	7.82	7.84	13.22	16.47	16.56	16.70
France	14.23	..	..	..	103.41	115.79	115.72	116.55
Germany	42.73	..	..	..	97.75	125.03	131.58	132.59
Greece	3.89	4.81	4.81	4.81	8.51	13.31	13.57	13.69
Hungary	2.24	1.51	1.45	1.37	7.18	8.59	8.62	8.54
Iceland	..	..	..	..	0.94	1.54	1.73	2.36
Ireland	0.87	0.89	0.88	0.85	3.81	6.27	6.44	7.49
Italy	9.03	9.99	9.69	9.50	56.56	85.50	89.49	93.60
Japan	40.47	59.18	58.89	58.13	194.73	277.32	278.71	279.15
Korea	..	21.18	21.64	23.97	..	66.54	70.08	73.37
Luxembourg	0.09	..	..	..	1.24	1.66	1.67	1.67
Mexico	1.20	5.38	5.38	5.38	28.27	51.07	53.80	56.25
Netherlands	3.77	..	..	..	17.56	21.80	22.98	23.80
New Zealand	1.09	1.16	1.15	1.11	7.18	8.88	8.91	9.13
Norway	0.05	0.08	0.07	0.07	27.13	28.43	29.52	30.32
Poland	25.99	28.45	28.48	28.46	27.97	32.26	32.36	32.50
Portugal	1.47	2.04	2.04	2.11	7.40	13.39	14.46	14.99
Slovak Republic	..	1.77	1.78	1.51	..	8.26	8.22	7.35
Spain	10.41	..	..	..	43.42	76.57	81.24	88.90
Sweden	..	2.76	..	..	34.19	33.39	34.13	34.30
Switzerland	0.01	..	0.21	0.28	16.56	19.12	19.12	19.22
Turkey	5.58	9.59	10.67	10.67	16.32	38.84	40.57	40.84
United Kingdom	41.17	30.51	31.22	31.42	73.21	82.38	83.70	84.49
United States	307.96	338.19	338.39	338.70	733.59	1068.57	1077.76	1089.50

Source: *IEA/OECD Electricity Information*

Note: Includes multi-fired units.
Includes autoproducers for all countries except Japan.
For further information, see *Principles and Definitions* .

Table 5.2: OECD coal and peat use for electricity production and heat sold

(Mtce)

	1973	1980	1985	1990	1995	2000	2003	2004	2005	2006	2007
Australia	19.7	28.8	33.7	41.3	46.3	60.0	66.4	68.1	72.2	74.3	73.1
Austria	1.2	1.2	1.7	2.4	2.0	2.0	2.8	2.9	2.6	2.6	2.4
Belgium	3.9	5.5	5.3	6.5	6.3	4.7	3.8	3.8	3.5	3.2	3.1
Canada	11.9	21.5	28.3	30.0	31.3	39.7	36.5	33.8	34.6	33.3	38.1
Czech Republic	11.9	16.7	17.7	20.5	21.3	20.9	20.6	20.6	20.1	20.1	22.0
Denmark	2.3	8.0	9.7	8.1	8.7	5.2	7.9	5.9	4.9	7.6	6.3
Finland	1.7	4.9	4.5	4.7	5.9	4.9	9.8	8.5	4.8	8.5	8.0
France	14.8	24.4	15.0	12.0	9.6	10.9	9.8	9.2	10.3	8.9	9.6
Germany	104.1	115.8	123.1	115.4	103.2	98.8	101.3	103.2	97.2	99.4	102.9
Greece	2.0	3.8	6.9	9.8	10.1	11.7	12.1	12.4	12.4	11.4	11.9
Hungary	5.8	6.9	6.0	4.5	4.0	4.1	4.0	3.7	3.1	2.9	3.1
Iceland	-	-	-	-	-	-	-	-	-	-	-
Ireland	0.9	0.8	1.2	2.6	3.0	2.7	2.7	2.4	2.7	2.5	2.3
Italy	1.9	6.0	9.9	11.4	8.8	9.6	14.1	16.4	16.1	19.1	16.7
Japan	17.1	15.0	29.3	36.3	51.5	69.1	83.2	86.0	89.7	87.5	91.7
Korea	0.5	1.2	6.9	8.5	16.9	33.7	44.7	50.1	51.9	54.0	54.5
Luxembourg	0.4	0.2	0.2	0.2	0.1	-	-	-	-	-	-
Mexico	0.1	-	1.0	2.6	4.8	6.8	10.9	8.3	11.4	10.1	10.9
Netherlands	1.1	2.6	5.3	8.3	9.3	8.2	8.9	8.5	8.0	7.7	8.3
New Zealand	0.5	0.2	0.3	0.3	0.4	0.8	1.8	2.2	2.5	2.5	1.6
Norway	-	-	-	-	-	-	-	-	-	-	-
Poland	52.9	77.0	82.9	74.9	60.0	56.2	57.6	56.6	56.4	58.4	57.0
Portugal	0.3	0.1	0.3	2.9	4.2	4.6	4.5	4.6	4.8	4.7	3.9
Slovak Republic	2.7	4.1	4.1	3.3	3.1	2.4	2.8	2.5	2.5	2.4	2.2
Spain	4.3	11.2	17.2	20.3	21.9	26.7	24.9	25.6	25.7	22.0	25.1
Sweden	0.1	0.1	1.9	1.6	1.4	1.1	1.5	1.5	1.2	1.2	1.1
Switzerland	-	-	-	-	-	-	-	-	-	-	-
Turkey	1.8	2.6	6.0	7.8	10.5	14.1	11.6	12.1	13.5	16.2	19.0
United Kingdom	65.0	74.3	61.4	68.3	49.7	41.1	46.2	44.6	46.0	50.5	46.4
United States	309.9	417.2	501.8	565.7	636.7	716.5	700.3	704.6	718.7	707.0	717.5
IEA Europe	*279.3*	*366.1*	*380.2*	*385.8*	*343.2*	*330.0*	*346.8*	*345.1*	*335.8*	*349.3*	*351.1*
OECD Europe	*279.3*	*366.1*	*380.2*	*385.8*	*343.2*	*330.0*	*346.8*	*345.1*	*335.8*	*349.3*	*351.1*
IEA North America	*321.7*	*438.7*	*530.1*	*595.8*	*668.0*	*756.2*	*736.8*	*738.4*	*753.3*	*740.3*	*755.6*
OECD North America	*321.8*	*438.7*	*531.0*	*598.3*	*672.8*	*763.1*	*747.8*	*746.8*	*764.7*	*750.5*	*766.5*
OECD/IEA Pacific	*37.8*	*45.2*	*70.2*	*86.4*	*115.1*	*163.6*	*196.1*	*206.4*	*216.3*	*218.3*	*220.9*
IEA Total	**638.8**	**850.0**	**980.5**	**1068.0**	**1126.2**	**1249.9**	**1279.7**	**1289.9**	**1305.4**	**1307.9**	**1327.6**
OECD Total	**638.9**	**850.0**	**981.4**	**1070.6**	**1131.0**	**1256.7**	**1290.7**	**1298.3**	**1316.8**	**1318.1**	**1338.5**

Source: *IEA/OECD Energy Balances of OECD Countries*

For further information, see *Principles and Definitions* .

Note: "Coal" refers to all coal types, primary (including hard and brown coal), peat and derived fuels (including patent fuel, coke oven coke, gas coke, coal tar, BKB, coke oven gas, blast furnace gas and oxygen steel furnace gas). Quantities have been converted to Mtce units using calorific values largely submitted in annual questionnaires to the IEA Secretariat by OECD member countries.

Table 5.3: OECD coal use in coke ovens

(million tonnes)

	1973	1980	1985	1990	1995	2000	2003	2004	2005	2006	2007
Australia	9.5	7.0	5.5	5.9	5.9	4.8	4.7	5.1	5.4	4.7	4.7
Austria	2.3	2.4	2.4	2.3	1.9	1.9	1.9	1.9	1.9	1.9	1.9
Belgium	9.9	7.9	7.8	7.2	4.7	3.9	3.6	3.6	3.4	3.7	3.4
Canada	7.7	7.3	6.3	5.0	4.2	4.2	4.2	4.4	4.3	4.3	4.3
Czech Republic	18.6	12.2	10.6	8.5	6.6	4.6	4.6	4.6	4.3	4.3	4.1
Denmark	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	0.7	1.7	1.3	1.3	1.3	1.3	1.2	1.2
France	15.3	14.6	11.3	9.5	7.7	6.5	6.1	5.9	5.8	5.9	6.0
Germany	46.3	38.7	31.5	24.1	13.7	11.4	9.5	10.3	10.2	10.4	10.4
Greece	0.5	0.4	-	-	-	-	-	-	-	-	-
Hungary	1.6	1.4	0.9	1.0	1.4	1.3	0.8	0.8	0.8	1.3	1.5
Iceland	-	-	-	-	-	-	-	-	-	-	-
Ireland	-	-	-	-	-	-	-	-	-	-	-
Italy	10.4	11.2	10.1	8.6	6.7	6.4	4.9	4.8	5.1	5.8	5.9
Japan	62.3	65.7	67.6	65.2	60.8	57.4	59.5	59.0	59.4	59.9	59.7
Korea	0.4	4.0	7.0	11.7	14.1	16.4	15.6	16.0	15.4	15.1	15.5
Luxembourg	-	-	-	-	-	-	-	-	-	-	-
Mexico	2.8	4.0	3.8	2.9	2.7	2.7	2.4	2.4	2.4	2.5	2.5
Netherlands	3.4	3.7	4.1	3.8	4.0	3.0	3.1	3.1	3.2	3.0	3.1
New Zealand	-	-	-	-	-	-	-	-	-	-	-
Norway	0.4	0.4	0.4	-	-	-	-	-	-	-	-
Poland	21.6	25.3	20.5	18.2	15.4	12.3	13.8	13.6	11.2	12.8	13.5
Portugal	0.4	0.3	0.4	0.3	0.5	0.5	-	-	-	-	-
Slovak Republic	2.8	2.1	2.5	2.9	2.4	2.2	2.4	2.4	2.4	2.4	2.4
Spain	6.4	5.2	4.9	4.5	3.3	3.6	3.6	3.9	3.6	3.7	3.7
Sweden	0.7	1.7	1.6	1.5	1.6	1.8	1.7	1.8	1.8	2.2	2.0
Switzerland	-	-	-	-	-	-	-	-	-	-	-
Turkey	2.0	2.6	3.7	4.7	4.2	4.2	4.0	4.3	4.2	4.7	4.4
United Kingdom	24.0	13.5	9.7	10.1	8.1	8.2	5.7	5.5	5.6	5.9	5.9
United States	87.3	60.5	37.2	35.3	29.9	26.0	19.6	18.9	18.4	18.6	18.2
IEA Total	**333.5**	**288.1**	**246.0**	**231.2**	**199.0**	**181.8**	**170.5**	**171.3**	**167.7**	**171.8**	**172.0**
OECD Total	**336.3**	**292.1**	**249.8**	**234.0**	**201.7**	**184.5**	**172.9**	**173.7**	**170.1**	**174.3**	**174.5**

Source: *IEA/OECD Energy Statistics of OECD Countries*

For further information, see *Principles and Definitions* .

Table 5.4: World consumption of pulverised coal injection (PCI) coals

(thousand tonnes)

	1990	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Belgium	414	998	1022	975	933	744	646	591	479	469	403
France	1085	1746	1956	2033	1840	2061	1990	2103	2373	2541	2453
Germany	1730	2221	2284	2530	2262	2287	3060	2641	2770	2975	3115
Italy	170	1058	972e	941	714	697	771	955	1154	1299	829
Japan	5252	10296	10565	10936	11165	11045	11097	10416	10440	10670	11594
Korea	..	2433	2554	3031	3741	4663	5005	5065e	5481	5603	6284
Netherlands	619	1207	1167	1045	1207	1235	1330	1406	1472	1289	1559
New Zealand	642	648	685	668	701	686	780	864	798	814	788
Slovakia	178	284	320	351	488	404	380	385	377	470	468
Spain	..	384	496	543	575	495	360	405	493	362	568
Sweden	182	262	285	271	442	398	363	423	417	426	426
United Kingdom	656	559	483	451	683	665	815	821	975	1000	1109
United States	183	2981	2731e	2500e	2425e	1988	1850	1733	1252	1408	1550
Colombia	487	356	231	231	231	215	336	231	233	198	198
India	..	2397	2237	2111	2119	2328	2428	2059	2160	2266	2377
Total World	**11598**	**27830**	**27988**	**28617**	**29526**	**29911**	**31211**	**30108**	**30874**	**31790**	**33987**

Source: *IEA/OECD Energy Statistics of OECD Countries, IEA/OECD Energy Statistics of Non-OECD Countries*

6. CHARTS

Chart 1: World steam and coking coal production
(million tonnes)

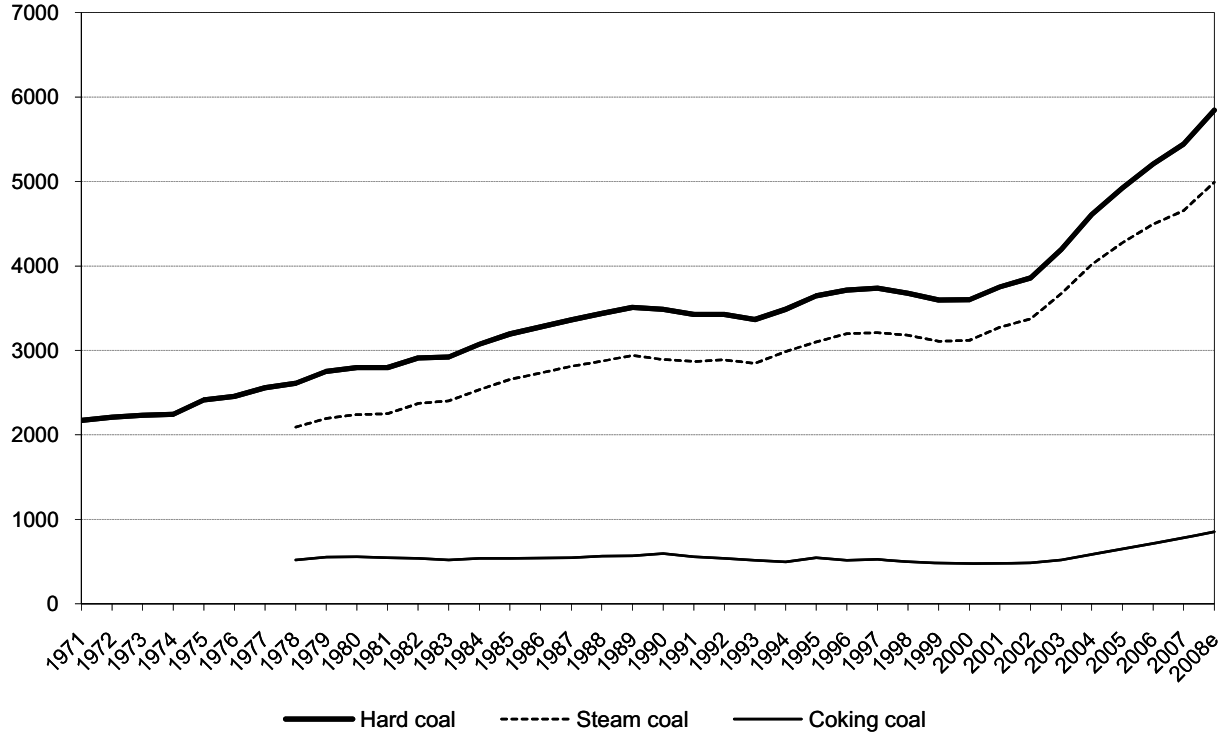


Chart 2: World steam and coking coal trade
(million tonnes)

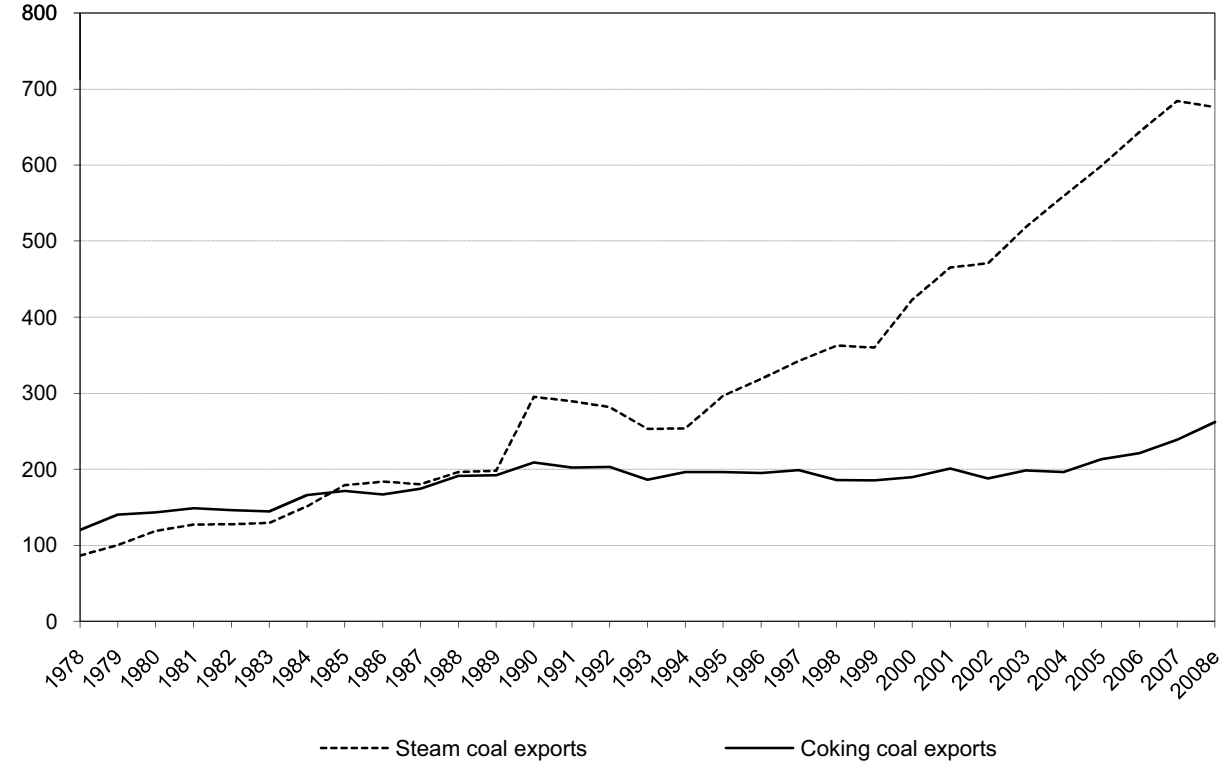


Chart 3: Coking coal price
CIF Japan and CIF EU member states (US$/t)

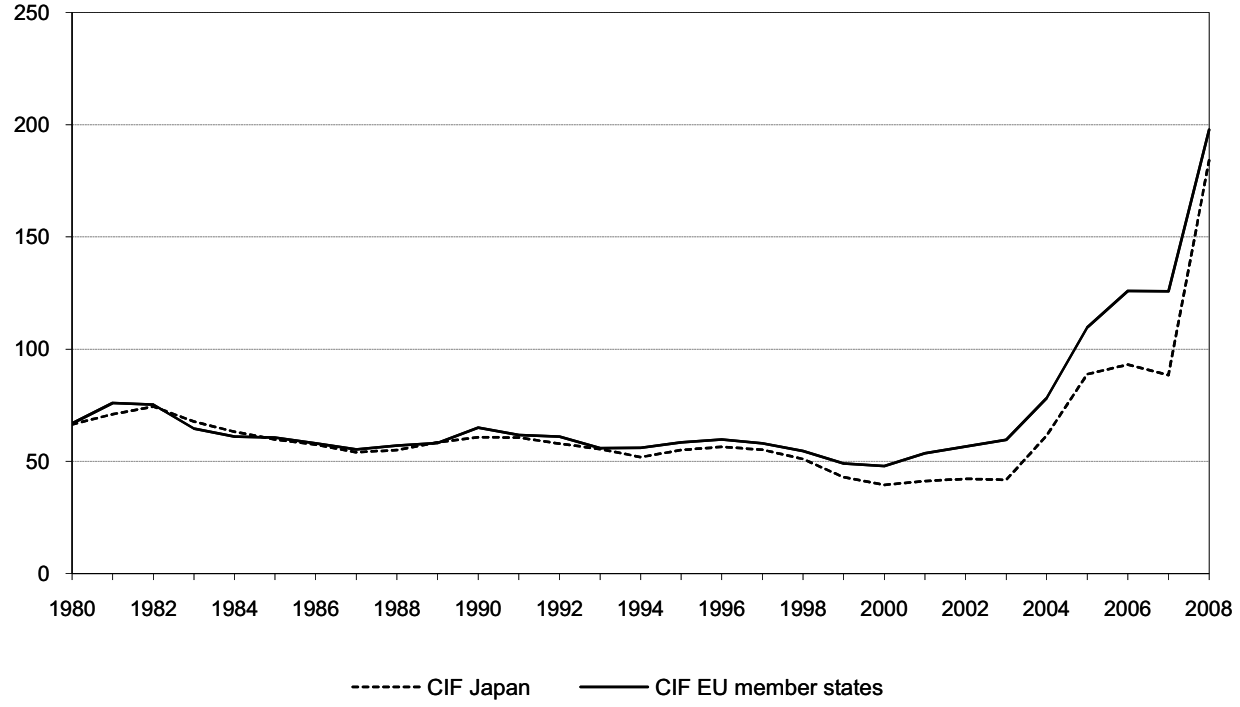


Chart 4: Steam coal price
CIF Japan and CIF EU member states (US$/t)

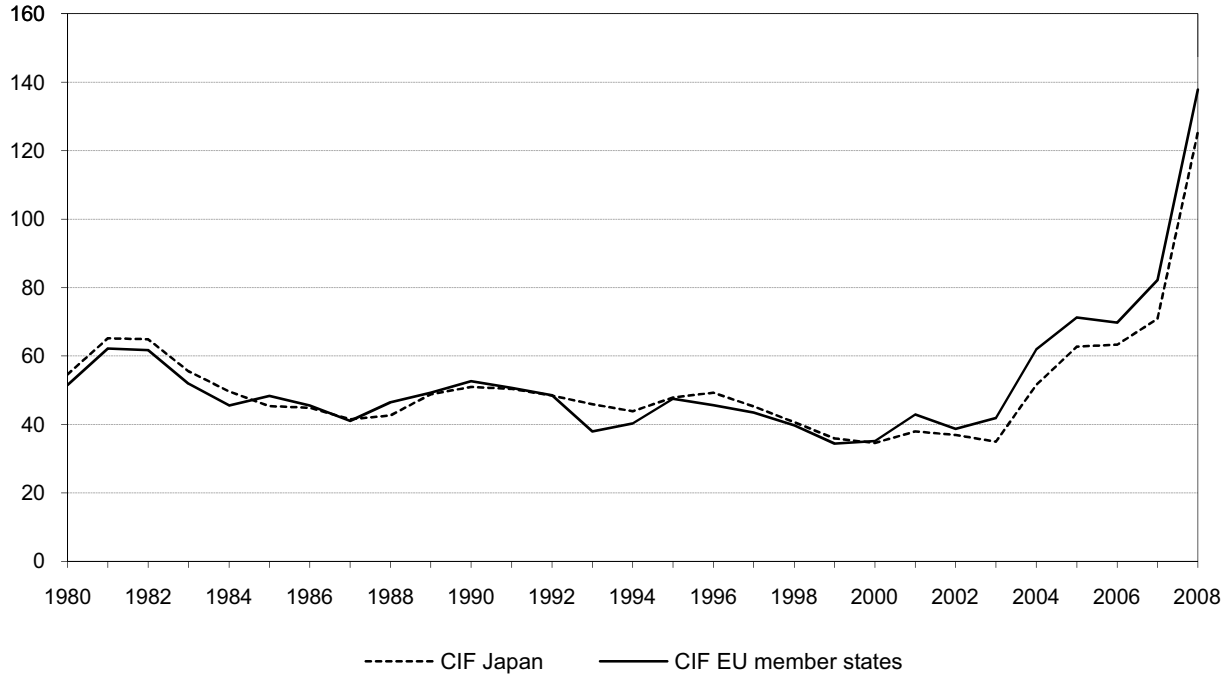


Chart 5: Steam coal price
US FOB vs. US domestic (US$/t)

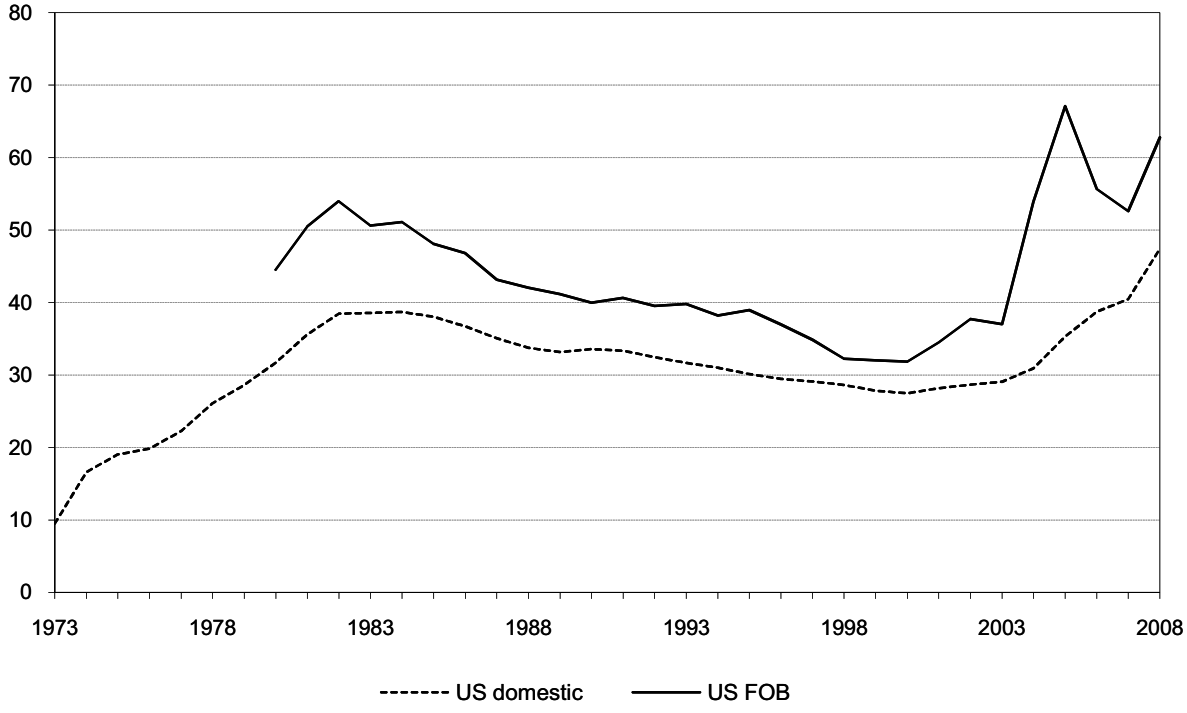


Chart 6: Steam coal price CIF EU member states (US$/t)
and US exports (million tonnes)

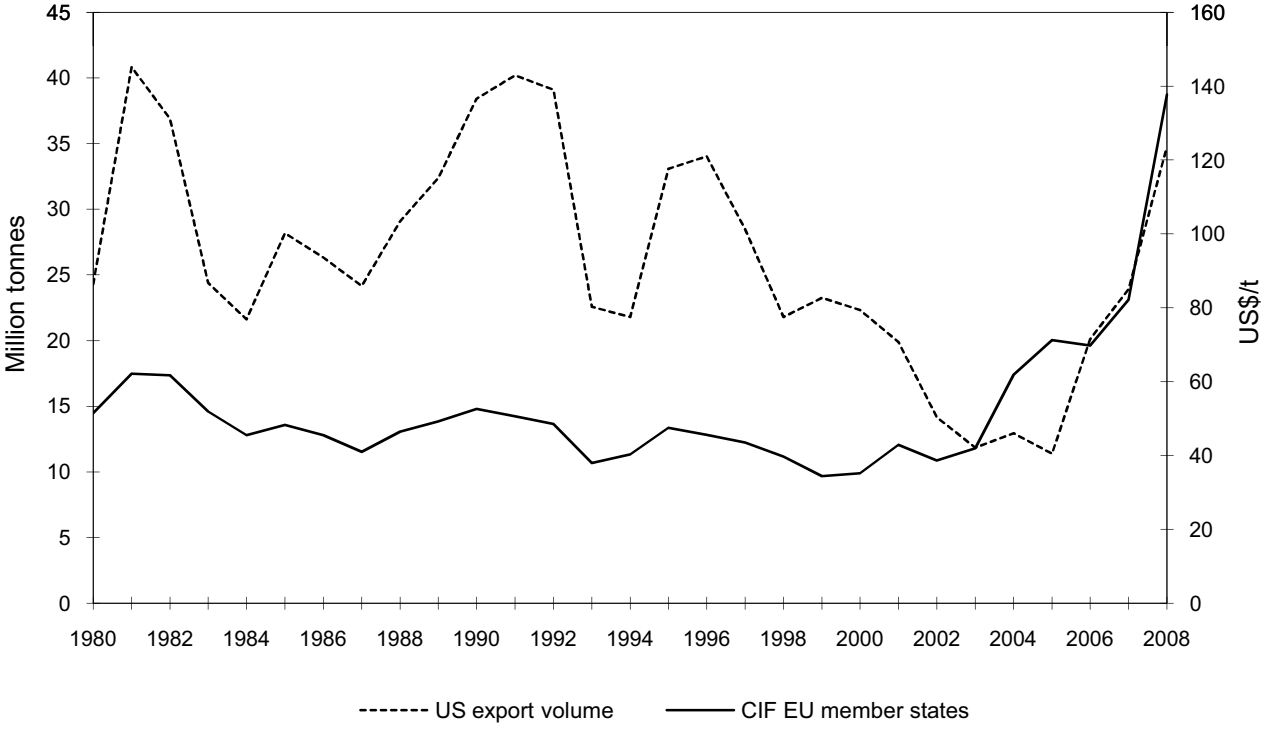


Chart 7: OECD total primary energy supply
(Mtce)

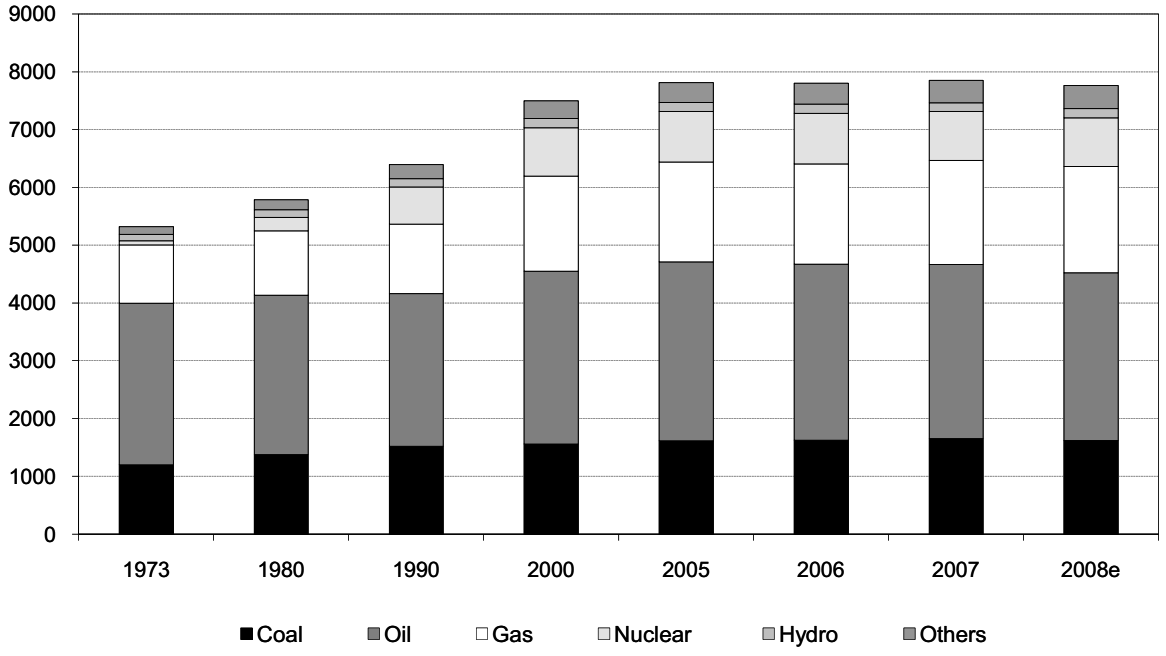


Chart 8: OECD coal consumption and indicators
2000=100

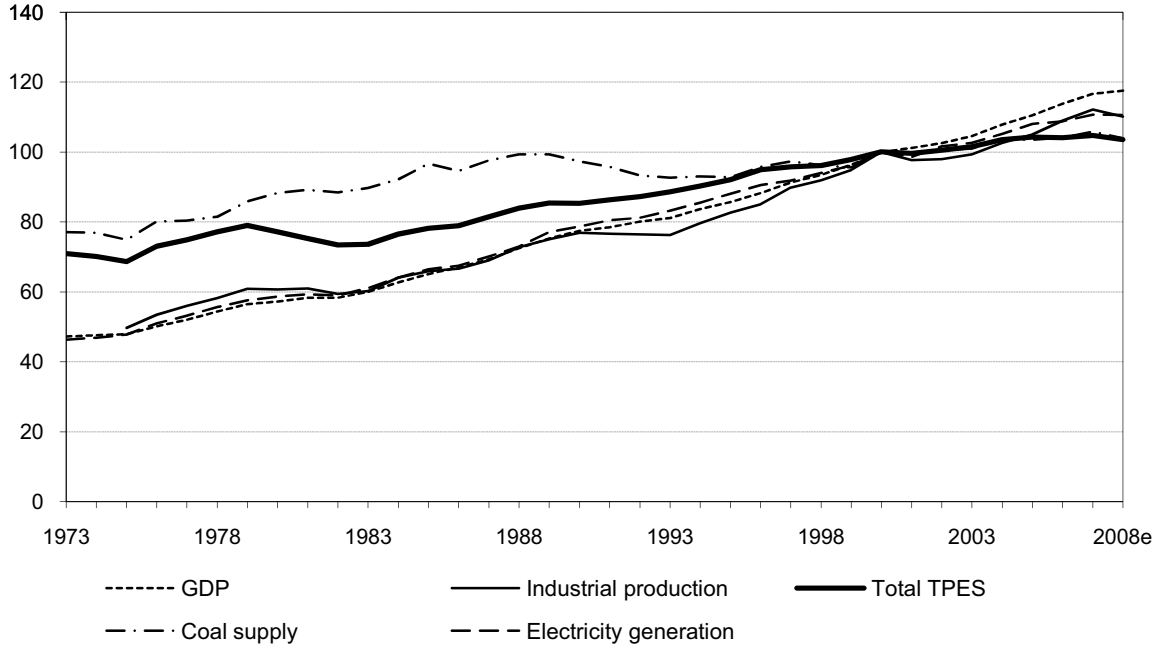


Chart 9: Japan steam coal supply, Imports, GDP annual growth rates

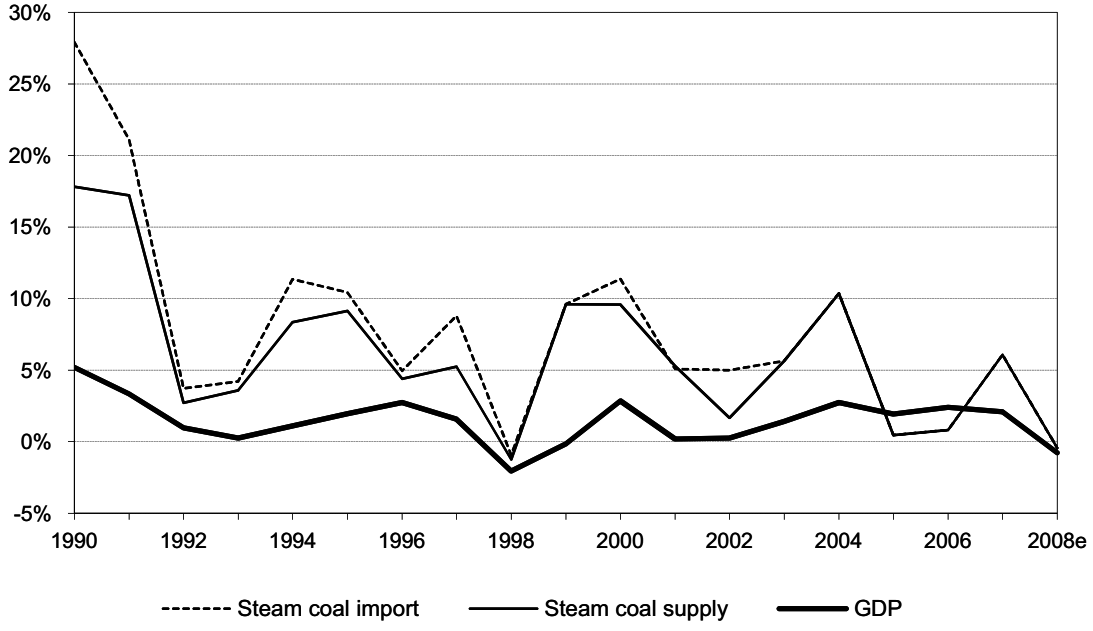


Chart 10: EU member states steam coal supply, Imports, GDP annual growth rates

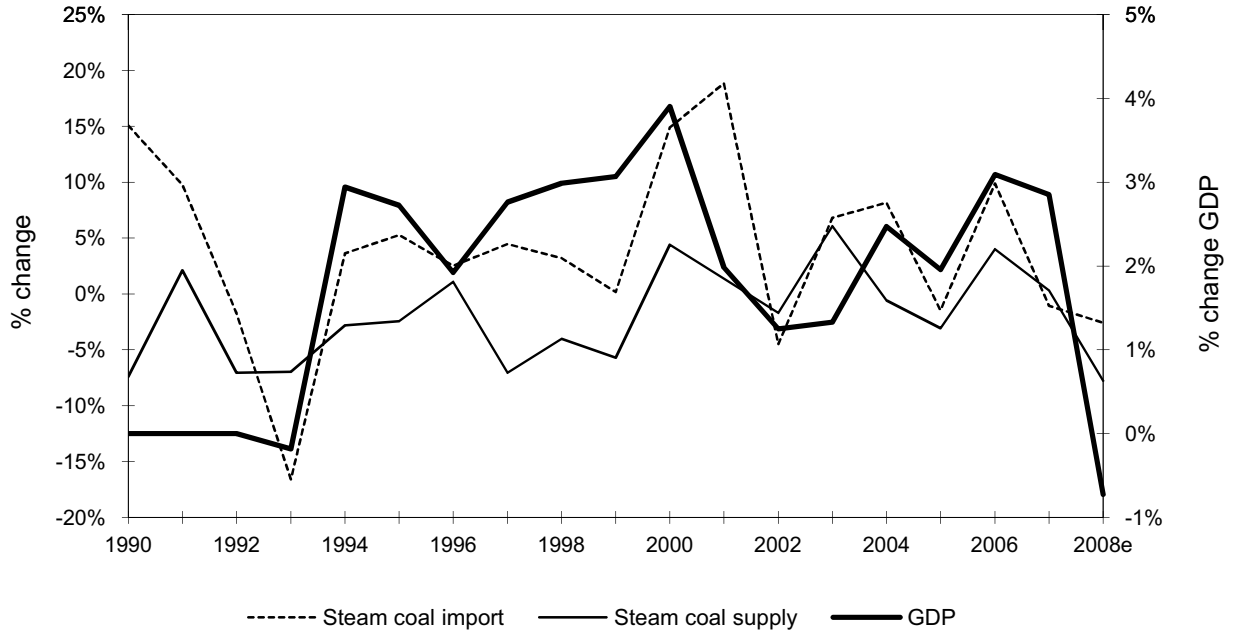


Chart 11: Hard coal production by region
(million tonnes)

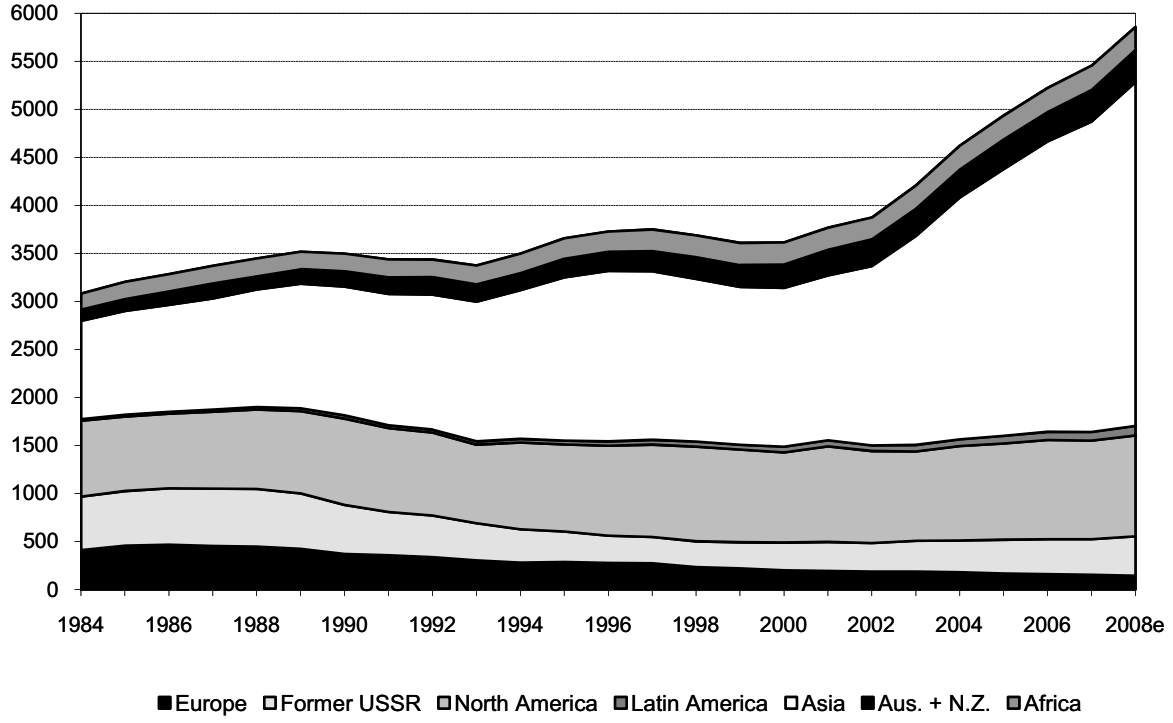


Chart 12: Hard coal consumption by region
(million tonnes)

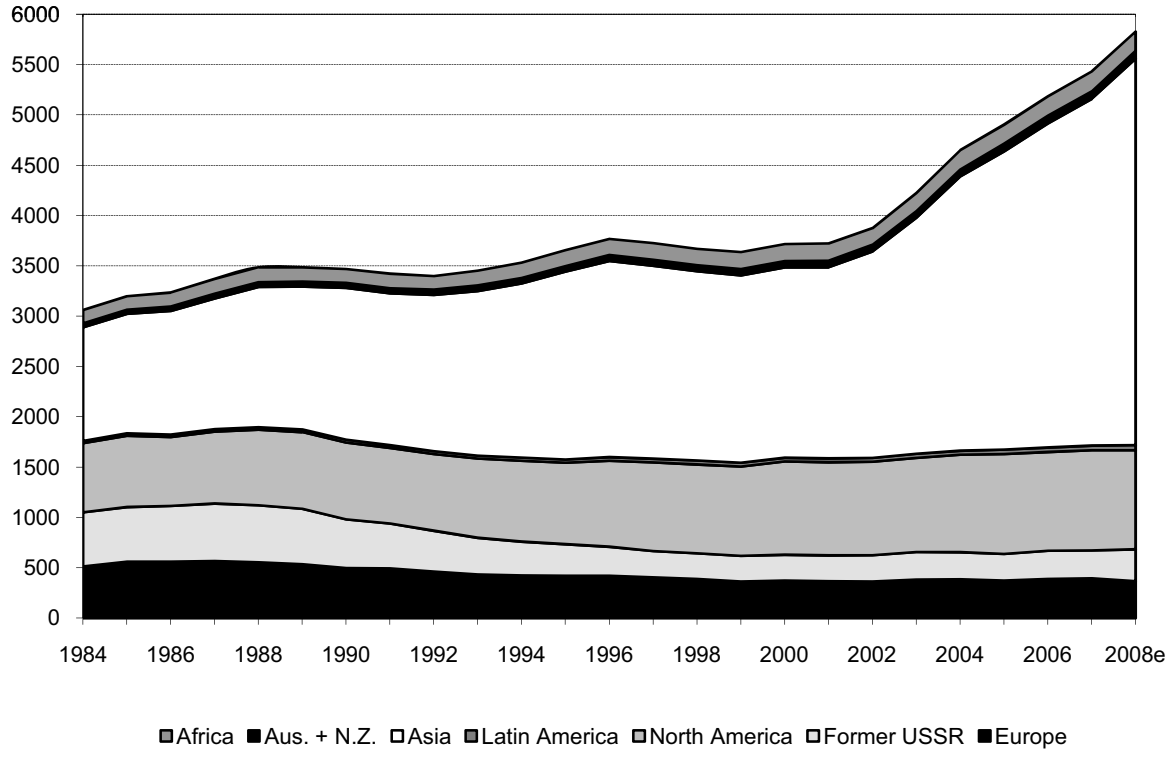


Chart 13: Hard coal imports by region
(million tonnes)

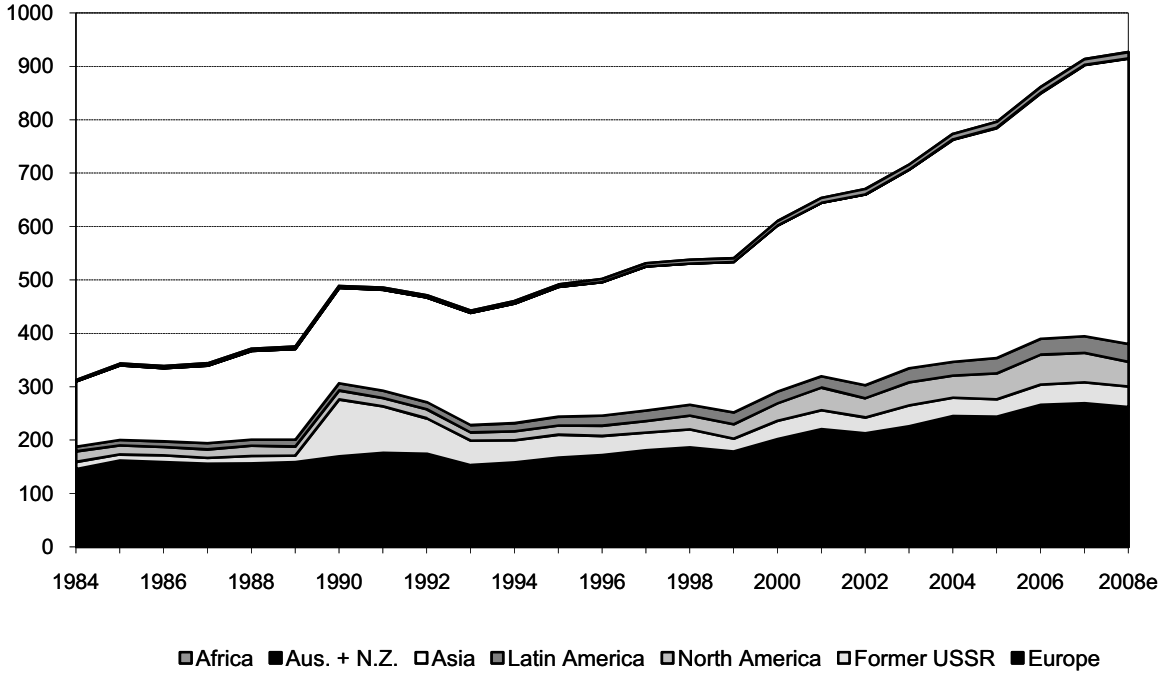
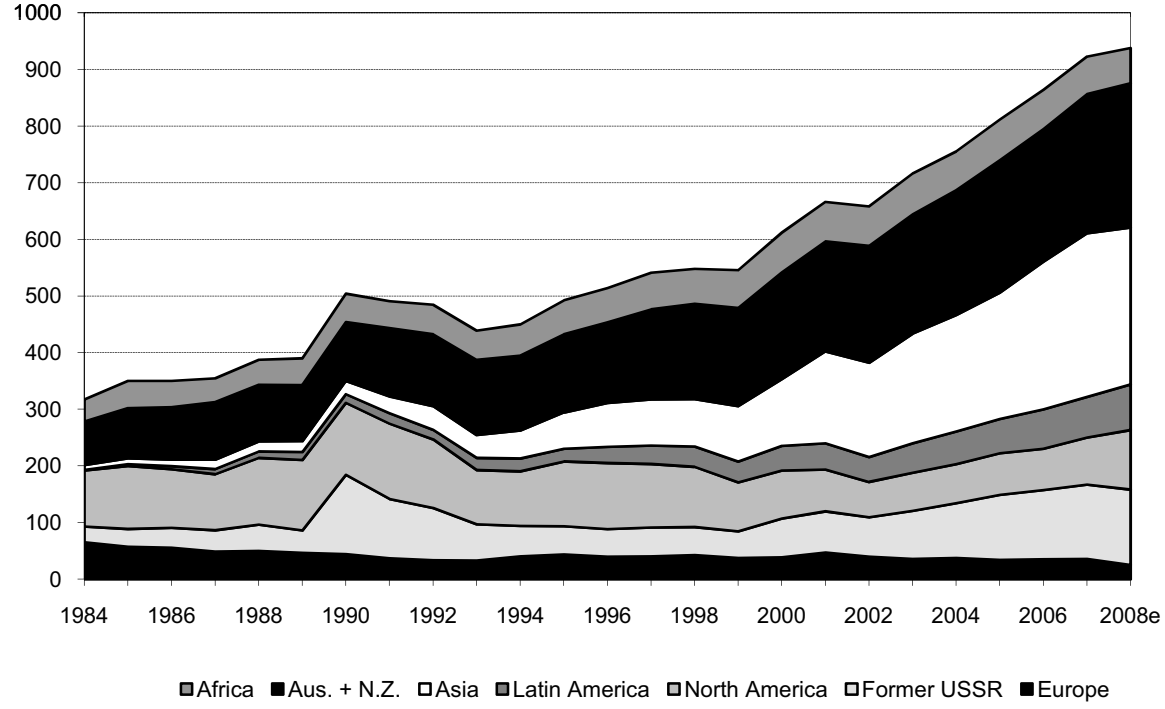


Chart 14: Hard coal exports by region
(million tonnes)



PART III

DETAILED OECD COAL DATA

DIRECTORY OF PART III CHARTS AND TABLES

Part III of *Coal Information* contains detailed statistical information on coal for all 30 Member countries of the OECD and for regional aggregates (OECD Total, OECD North America, OECD/IEA Pacific, OECD Europe, IEA Total, IEA North America, IEA Europe). The charts and tables of regional aggregates are presented before the country tables which are set out in alphabetical order.

Data for each OECD and IEA region and country are illustrated in charts at the beginning of each section. This is followed by detailed statistical information presented in several tables for each region and country.

It should be noted that not all tables are shown for all countries. For example, in the case where a country has no or very few coal exports, the related tables (on volumes and values) are omitted. The content of current charts and tables is described below.

Charts:

1. Total primary energy supply by fuel
2. Coal supply indicators
3. Primary coal supply
4. Coal consumption
5. Electricity generation by fuel
6. CO_2 emissions by fuel

Tables:

1. Total primary energy supply (TPES) by fuel
2. Energy supply, GDP and population
3. Coal production by type
4. Final consumption of energy by fuel
5. Coal balance
6. Use of coal for selected end-uses
7. Fuel prices to end users
8. Coal trade by type of coal
9. Hard coal imports by origin
10. Coking coal exports by destination
11. Steam coal exports by destination
12. Coal import values by origin
13. Coal export values by destination

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 *Principles and Definitions* such differences are explained. The conventions used by the Secretariat in presenting energy data are also reported. In particular, readers are strongly advised to read the country notes. Conversion factors are also included for reference.

SPECIAL NOTES FOR CHARTS AND TABLES

In each table hard coal is the sum of coking coal and steam coal. Data for 2008 are provisional with the exception of Tables 7, 12 and 13 where data for 2008 are final. US$ refers to dollars used in the United States of America.

Chart 1: Total primary energy supply by fuel

Source: *IEA/OECD Energy Statistics* and *Energy Balances of OECD Countries, 2009 Edition*.

Units: All data shown are in millions tonnes of coal equivalent (Mtce).

Chart 2: Coal supply indicators

Source: *IEA/OECD Energy Statistics* and *Energy Balances of OECD Countries, 2009 Edition*.

Units: All flows shown are indices with base year 1970=100.

Chart 3: Primary coal supply

Source: *IEA/OECD Energy Statistics* and *Energy Balances of OECD Countries, 2009 Edition*.

Units: All data shown are in millions tonnes of coal equivalent (Mtce).

Chart 4: Coal consumption

Source: *IEA/OECD Energy Statistics* and *Energy Balances of OECD Countries, 2009 Edition*.

Units: All data shown are in millions tonnes of coal equivalent (Mtce).

Chart 5: Electricity generation by fuel

Source: *IEA/OECD Energy Statistics* and *Energy Balances of OECD Countries, 2009 Edition*.

Units: All data shown are in terawatt hours (TWh).

Chart 6: CO_2 emissions by fuel

Source: *IEA/OECD CO_2 Emissions from Fuel Combustion, 2008 Edition*.

Units: All data shown are in million tonnes of CO_2 (Sectoral Approach).

Table 1: Total primary energy supply (TPES) by Fuel

Source: *IEA/OECD Energy Balances of OECD Countries, 2009 Edition*.

Units: All data shown are in million tonnes of coal equivalent (Mtce).

Table 2: Energy supply, GDP and population

Source: *IEA/OECD Energy Balances of OECD Countries, 2009 Edition*.

Units: GDP is shown in billions of 2000 US$, TPES/GDP is tce/thousands 2000 US$. Population is shown in millions, TPES/population in tce/capita. Electricity generation is shown in TWh. All other flows are indices, with base year 2000 = 100.

Table 3: Coal production by type

Source: *IEA/OECD Energy Balances of OECD Countries, 2009 Edition*, *IEA/OECD Energy Statistics of OECD Countries, 2009 Edition*.

Units: First part of table is shown in Mtce; second part is the corresponding amount in million tonnes. Country specific net calorific values are used for conversion.

Table 4: Final consumption of energy by fuel and Table 5: Coal balance

Source: *IEA/OECD Energy Balances of OECD Countries, 2009 Edition*.

Units: All data shown are in million tonnes of coal equivalent (Mtce).

Table 6: Use of coal for selected end-uses

Source: *IEA/OECD Energy Statistics of OECD Countries, 2009 Edition*.

Units: All data shown are in millions tonnes.

Table 7: Fuel prices to end users

Source: *IEA/OECD Energy Prices and Taxes*.

Units: First part of table is shown in nominal United States Dollars per tce. Second part of table is shown in a country specific national currency or nominal US Dollars for regional totals per unit (for coals and oils per metric tonnes, for natural gas per 10^7 kilocalories GCV).

Note: Prices for regional totals are calculated as weighted average of available price data in the region and therefore prices shown should be considered only indicative. Consumption is used as weight. Data are converted from unit prices to tce using the country specific calorific values.

Table 8: Coal trade by type of coal

Source: *IEA/OECD Energy Balances of OECD Countries, 2008 Edition, IEA/OECD Energy Statistics of OECD Countries, 2009 Edition.*

Units: All data shown are in millions tonnes of coal equivalent (Mtce).

Table 9: Hard coal imports by origin, Table 10: Coking coal exports by destination and Table 11: Steam coal exports by destination

Source: IEA/OECD Coal Statistics.

Units: All data shown are in thousand tonnes.

Table 12: Coal import values by origin and Table 13: Coal export values by destination

Source: IEA/OECD Coal Statistics.

Units: Average Unit price in US$ per tonne. CIF price for imports and FOB price for exports.

Note: On occasion shipment of extremely small quantities of high valued coal results in high import or export costs.

OECD Total*

Chart 1: TPES by fuel (Mtce)

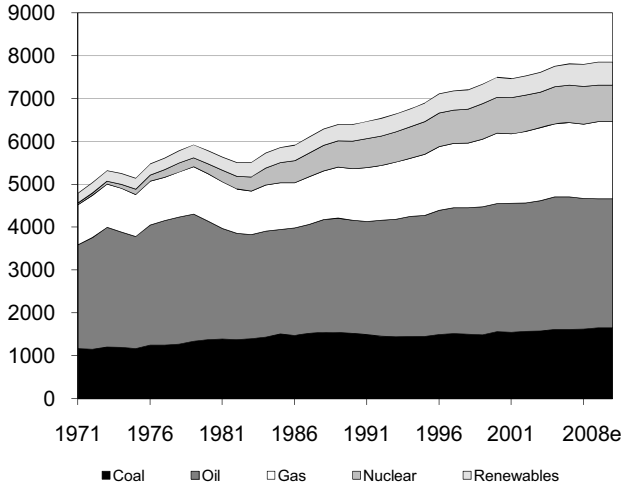


Chart 2: Coal supply indicators (1971 = 100)

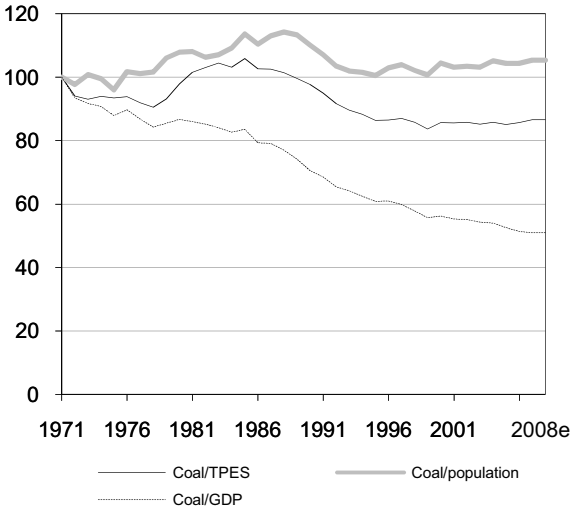


Chart 3: Primary coal supply (Mtce)

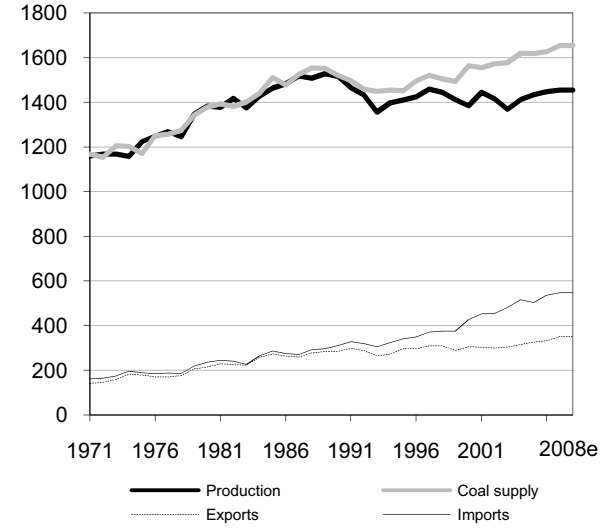


Chart 4: Coal consumption (Mtce)

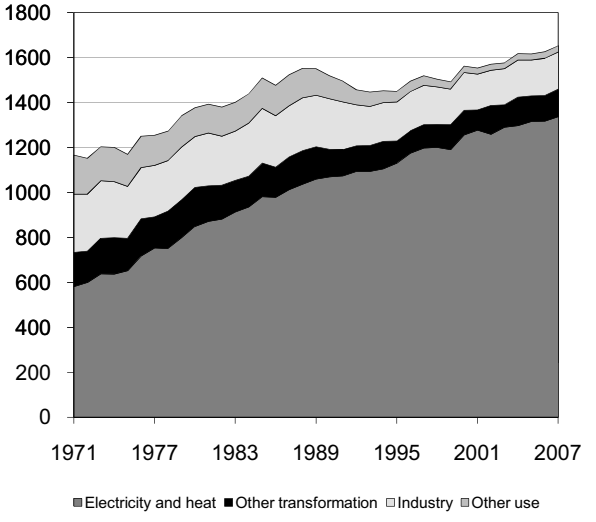


Chart 5: Electricity generation by fuel (TWh)

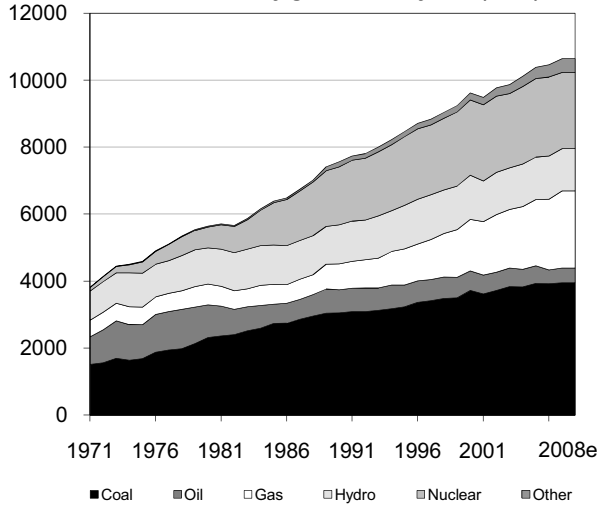
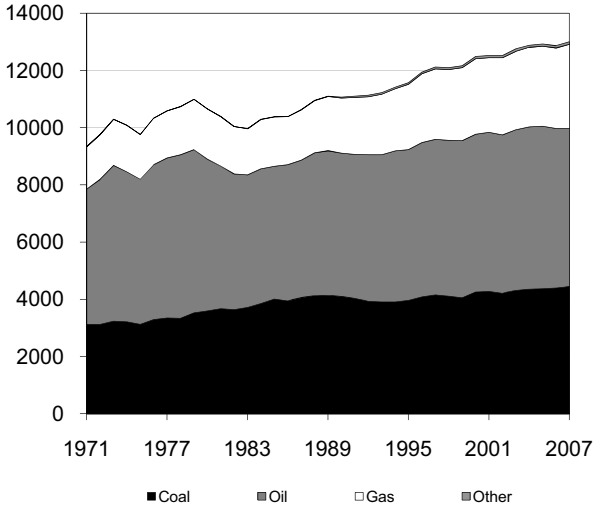


Chart 6: CO_2 emissions by fuel (Mt CO_2)



*Please refer to notes in *Principles and Definitions* . Peat is included in coal for all charts.

OECD Total

1. TOTAL PRIMARY ENERGY SUPPLY (TPES) BY FUEL*

	1973	1980	1990	2000	2006	2007	2008e	Average annual percent change 73-90	90-07
TPES (Mtce)	**5320.45**	**5787.07**	**6397.46**	**7499.64**	**7802.55**	**7853.04**	**7762.45**	**1.09**	**1.21**
Coal and peat	1204.78	1378.59	1521.11	1563.24	1626.98	1653.83	1624.02	1.38	0.49
Oil	2792.51	2761.05	2644.41	2987.47	3048.59	3014.79	2898.38	-0.32	0.77
Gas	1008.33	1110.34	1199.47	1647.23	1732.56	1798.44	1839.88	1.03	2.41
Comb. renew/waste	122.91	155.47	201.70	251.33	296.07	315.83	320.02	2.96	2.67
Nuclear	70.31	231.79	642.87	835.63	877.15	846.26	845.43	13.90	1.63
Hydro	112.09	133.26	143.73	161.97	158.30	154.61	158.80	1.47	0.43
Geothermal	8.68	14.55	38.59	43.63	40.96	43.39	44.91	9.17	0.69
Solar, wind, tide	0.07	0.10	2.67	8.23	19.47	24.15	29.08	24.04	13.82
Net electricity trade[1]	0.77	1.93	2.88	0.38	1.79	1.07	1.30	8.03	-5.64
Heat[2]	-	-	0.03	0.54	0.69	0.68	0.64	-	20.72

Source: *IEA/OECD Energy Balances of OECD Countries*

(1) Net trade between OECD and non-OECD countries.

(2) Ambient heat from heat pumps used in the transformation sector.

2. ENERGY SUPPLY, GDP AND POPULATION*

	1973	1980	1990	2000	2006	2007	2008e	Average annual percent change 73-90	90-07
GDP (2000 bil. US$)	12192	14765	20004	25824	29379	30110	30352	2.96	2.43
TPES/GDP[1]	0.44	0.39	0.32	0.29	0.27	0.26	0.26	-1.81	-1.19
Population (millions)	902.1	964.6	1043.6	1129.9	1177.4	1185.3	1191.6	0.86	0.75
TPES/population[1]	5.90	6.00	6.13	6.64	6.63	6.63	6.51	0.23	0.46
TPES/GDP[2]	150.3	135.0	110.1	100.0	91.4	89.8	88.1	-1.81	-1.19
Coal and peat supply/GDP[2]	163.2	154.2	125.6	100.0	91.5	90.7	88.4	-1.53	-1.90
Elec. consumption/GDP[2]	96.5	100.5	99.6	100.0	96.3	96.1	..	0.19	-0.21
Elec. generation (TWh)	4454	5644	7569	9619	10461	10645	10633	3.17	2.03
Industrial production[2]	..	60.7	76.9	100.0	108.9	112.2	110.2	-	2.25

Source: *IEA/OECD Energy Balances of OECD Countries* , *OECD Main Economic Indicators*

(1) TPES/GDP in units of tce/2000 thousand US$, TPES/population in units of tce/capita.

(2) As index, 2000 = 100

3. COAL AND PEAT PRODUCTION BY TYPE*

	1978[1]	1980	1990	2000	2006	2007	2008e	Average annual percent change 78-90	90-07
Mtce:									
Coking coal	290.52	304.93	279.74	228.09	225.81	246.13	250.28	-0.31	-0.75
Steam coal	740.20	845.73	959.64	938.52	1000.60	988.84	996.66	2.19	0.18
Brown coal	213.08	230.24	272.07	215.09	216.42	218.03	215.16	2.06	-1.29
Peat	2.30	2.67	4.96	3.38	6.00	2.62	2.90	6.61	-3.68
Mt:									
Coking coal	296.47	310.10	282.54	235.27	235.60	257.13	261.67	-0.40	-0.55
Steam coal	890.40	1025.03	1165.10	1152.60	1264.14	1253.16	1263.51	2.27	0.43
Brown coal	666.16	699.43	814.28	620.84	621.82	626.15	617.35	1.69	-1.53
Peat	8.05	9.34	14.68	10.36	17.65	7.76	8.56	5.13	-3.68

Source: *IEA/OECD Energy Balances of OECD Countries, IEA/OECD Energy Statistics of OECD Countries*

(1) Earliest year for which split by coal type is available.

* Please refer to notes in *Principles and Definitions* .

OECD Total

4. FINAL CONSUMPTION OF ENERGY BY FUEL*

(Mtce)

	1973	1980	1990	2000	2005	2006	2007	Average annual percent change 73-90	90-07
TFC[1]	**4008.13**	**4179.52**	**4405.53**	**5151.72**	**5364.83**	**5362.72**	**5387.84**	**0.56**	**1.19**
Coal and peat	408.12	355.34	328.07	196.08	186.98	194.69	192.53	-1.28	-3.09
Oil	2253.24	2230.79	2262.18	2616.37	2728.70	2711.72	2677.71	0.02	1.00
Gas	736.48	812.12	843.47	1063.47	1048.58	1026.31	1054.56	0.80	1.32
Comb. renew/wastes	118.56	147.30	126.88	185.54	196.18	209.12	219.32	0.40	3.27
Geothermal	0.51	0.73	2.96	3.98	4.96	5.07	5.25	10.94	3.43
Solar, wind, tide	-	0.04	2.04	4.41	4.34	4.52	4.97	-	5.37
Electricity	461.64	582.27	782.24	1013.73	1100.66	1111.21	1135.65	3.15	2.22
Heat	29.59	50.93	57.69	68.14	94.43	100.09	97.82	4.01	3.15
of which:									
Total industry	**1364.31**	**1340.07**	**1172.08**	**1286.00**	**1227.33**	**1237.38**	**1245.39**	**-0.89**	**0.36**
Coal and peat	256.11	226.51	225.63	168.17	159.25	165.94	164.55	-0.74	-1.84
Oil	444.57	395.06	239.49	203.11	202.99	195.26	184.05	-3.57	-1.54
Gas	362.46	360.98	321.76	402.30	357.12	355.74	369.79	-0.70	0.82
Comb. renew/wastes	60.03	70.11	50.74	98.21	95.00	102.57	102.03	-0.98	4.19
Geothermal	0.04	0.04	0.38	0.44	0.42	0.42	0.41	13.75	0.52
Solar, wind, tide	-	-	0.01	0.14	0.18	0.18	0.18	-	17.74
Electricity	225.58	265.33	314.39	391.52	378.62	378.64	386.33	1.97	1.22
Heat	15.52	22.05	19.68	22.11	33.76	38.63	38.04	1.41	3.95
Total transport	**989.04**	**1112.59**	**1337.28**	**1626.61**	**1729.25**	**1747.22**	**1767.55**	**1.79**	**1.65**
Coal and peat	10.30	3.64	0.40	0.14	0.15	0.12	0.13	-17.38	-6.50
Oil	946.90	1076.08	1299.17	1576.64	1667.95	1677.83	1686.59	1.88	1.55
Gas	24.28	24.22	26.68	30.87	30.84	31.17	33.30	0.56	1.31
Comb. renew/wastes	0.00	0.00	0.00	5.75	16.27	24.26	33.54	-2.02	x
Electricity	7.55	8.64	11.03	13.21	14.05	13.84	13.98	2.25	1.41
Residential	**781.07**	**791.21**	**845.85**	**982.74**	**1028.28**	**995.82**	**992.34**	**0.47**	**0.94**
Coal and peat	95.33	83.53	63.90	19.39	16.74	18.61	17.27	-2.33	-7.41
Oil	282.44	213.05	170.33	181.49	168.71	157.05	140.91	-2.93	-1.11
Gas	220.01	256.00	286.17	368.27	392.50	372.44	378.00	1.56	1.65
Comb. renew/wastes	38.88	41.23	54.30	73.77	76.44	73.21	74.38	1.98	1.87
Geothermal	0.42	0.64	1.38	2.22	2.93	3.01	3.22	7.32	5.08
Solar, wind, tide	-	0.04	1.91	3.99	3.82	3.97	4.25	-	4.82
Electricity	132.92	177.30	240.89	305.17	345.48	346.07	353.71	3.56	2.29
Heat	11.07	19.42	26.97	28.44	21.66	21.46	20.60	5.38	-1.57
Comm & public services	**406.50**	**419.44**	**503.87**	**616.12**	**669.02**	**664.96**	**666.01**	**1.27**	**1.65**
Coal and peat	24.34	26.26	22.83	4.35	5.90	5.34	5.29	-0.38	-8.24
Oil	186.43	151.20	121.20	115.26	113.16	101.17	88.53	-2.50	-1.83
Gas	104.05	113.78	144.59	187.41	199.25	196.70	202.58	1.95	2.00
Comb. renew/waste	1.16	1.54	0.52	3.73	6.01	6.35	6.59	-4.63	16.14
Geothermal	0.02	0.02	0.22	0.78	1.05	1.07	1.06	15.84	9.67
Solar, wind, tide	-	-	0.09	0.17	0.28	0.30	0.46	-	9.88
Electricity	89.29	123.43	206.18	293.36	333.06	343.07	350.54	5.05	3.17
Heat	1.21	3.21	8.24	11.08	10.32	10.96	10.95	11.97	1.69
Non-energy use	**314.77**	**341.19**	**412.32**	**524.18**	**551.98**	**556.77**	**557.93**	**1.60**	**1.79**
Coal and peat	4.42	3.27	3.15	2.06	2.66	2.68	3.52	-1.98	0.65
Oil	302.45	313.63	359.05	464.23	499.33	504.89	504.17	1.01	2.02
Gas	7.90	24.30	50.12	57.88	50.00	49.20	50.24	11.48	0.01

Source: *IEA/OECD Energy Balances of OECD Countries*

(1) Total Final Consumption (TFC) excludes use in transformation and energy sectors.

* Please refer to notes in *Principles and Definitions*.

OECD Total

5. COAL BALANCE*

(Mtce)

	1973	1980	1990	2000	2006	2007	2008e	Average annual percent change 73-90	90-07
Production	1169.0	1383.6	1516.4	1385.1	1448.8	1455.6	1465.0	1.5	-0.2
Imports	173.9	236.0	310.8	425.9	535.4	547.2	540.7	3.5	3.4
Exports	-158.7	-214.9	-284.9	-305.5	-332.1	-350.9	-371.1	3.5	1.2
Stock changes	20.6	-26.0	-21.2	57.8	-25.2	1.9	-10.6	x	x
Primary supply	**1204.8**	**1378.6**	**1521.1**	**1563.2**	**1627.0**	**1653.8**	**1624.0**	**1.4**	**0.5**
Statistical difference	**21.2**	**-19.5**	**5.0**	**5.4**	**-9.9**	**-17.6**	**..**	**x**	**x**
Total transformation	**-780.8**	**-975.6**	**-1176.1**	**-1352.5**	**-1403.3**	**-1422.0**	**..**	**2.4**	**1.1**
Electricity and heat gen.	-638.9	-850.0	-1070.6	-1256.7	-1318.1	-1338.5	..	3.1	1.3
Main activity producers (1)	*-617.8*	*-786.5*	*-1003.3*	*-1203.1*	*-1273.1*	*-1293.8*	..	*2.9*	*1.5*
Autoproducers	*-21.1*	*-63.6*	*-67.3*	*-53.6*	*-44.9*	*-44.7*	..	*7.1*	*-2.4*
Gas works	-12.0	-8.6	-6.4	-3.6	-3.7	-3.3	..	-3.7	-3.8
Coal transformation(2)	-129.9	-116.9	-99.2	-92.2	-81.5	-80.3	..	-1.6	-1.2
BKB plants	*2.2*	*1.4*	*-1.0*	*-0.3*	*-0.5*	*-0.4*	..	-	*-5.4*
Blast furnaces	*-93.2*	*-79.5*	*-74.1*	*-76.6*	*-70.6*	*-72.5*	..	*-1.3*	*-0.1*
Coke ovens	*-38.1*	*-38.9*	*-19.5*	*-15.2*	*-14.1*	*-12.8*	..	*-3.9*	*-2.5*
Patent fuel plants	*-0.8*	*0.1*	*-4.6*	*-0.0*	*3.6*	*5.3*	..	*11.2*	-
Other transformation(3)	-	-	-	0.0	0.0	0.0	..	-	-
Own use	**-33.8**	**-26.7**	**-21.1**	**-19.0**	**-17.7**	**-20.3**	**..**	**-2.7**	**-0.2**
Distribution losses	**-3.3**	**-1.5**	**-0.8**	**-1.1**	**-1.4**	**-1.5**	**..**	**x**	**x**
Final consumption(4)	**408.1**	**355.3**	**328.1**	**196.1**	**194.7**	**192.5**	**..**	**-1.3**	**-3.1**
Industry sector(5)	256.1	226.5	225.6	168.2	165.9	164.6	..	-0.7	-1.8
Iron and steel	*133.2*	*106.2*	*82.1*	*62.1*	*58.0*	*56.0*	..	*-2.8*	*-2.2*
Chemical	*26.4*	*24.7*	*27.9*	*18.0*	*16.5*	*15.4*	..	*0.3*	*-3.4*
Non-metallic minerals	*20.3*	*32.1*	*41.1*	*35.5*	*31.3*	*32.8*	..	*4.2*	*-1.3*
Paper, pulp and print	*11.6*	*11.2*	*16.1*	*8.1*	*11.1*	*10.6*	..	*2.0*	*-2.4*
Transport sector(6)	10.3	3.6	0.4	0.1	0.1	0.1	..	-17.4	-6.5
Other sectors(7)	137.3	121.9	98.9	25.7	25.9	24.3	..	-1.9	-7.9
Comm. and pub. services	*24.3*	*26.3*	*22.8*	*4.3*	*5.3*	*5.3*	..	*-0.4*	*-8.2*
Residential	*95.3*	*83.5*	*63.9*	*19.4*	*18.6*	*17.3*	..	*-2.3*	*-7.4*
Non-energy use	4.4	3.3	3.1	2.1	2.7	3.5	..	-2.0	0.7

Source: *IEA/OECD Energy Balances of OECD Countries*

(1) Main activity electricity and heat generation includes district heating.

(2) Coal transformation refers to the transformation of coal and peat to secondary and tertiary products (mainly coke, briquettes, coke oven gas and blast furnace gas).

(3) Other transformation includes liquefaction and non-specified transformation.

(4) Final Consumption includes non-energy use and energy use (industry, transport and other sectors).

(5) Please refer to notes in *Principles and Definitions* for detailed explanation.

(6) Transport sector includes rail and inland waterways.

(7) Other sectors includes commercial and public services, agriculture, and residential.

* "Coal" refers to all types of coal, primary (anthracite, coking coal, other bituminous coal, sub-bituminous coal, lignite/brown coal, peat) and derived fuels (including patent fuel, BKB/peat briquettes, coke oven coke, gas coke, coal tar, coke oven gas, gas works gas, blast furnace gas and oxygen steel furnace gas). Quantities have been converted to Mtce using calorific values reported by the respective countries. Please refer to notes in *Principles and Definitions*.

OECD Total

6. USE OF COAL FOR SELECTED END-USES*

(million tonnes)

	1978	1980	1990	2000	2005	2006	2007	Average annual percent change 78-90	90-07
Steam coal	**913.64**	**1024.53**	**1197.44**	**1369.14**	**1500.50**	**1506.95**	**1536.57**	**2.28**	**1.48**
Total electricity and heat	701.37	809.95	1005.29	1233.87	1230.45	1260.05	1251.88	3.05	1.30
Main activity producers	*651.67*	*758.04*	*957.44*	*1200.90*	*1203.67*	*1234.51*	*1226.01*	*3.26*	*1.47*
Autoproducers	*49.70*	*51.90*	*47.85*	*32.97*	*26.78*	*25.54*	*25.87*	*-0.32*	*-3.55*
Patent fuel/BKB plants	25.21	26.39	22.83	2.06	122.25	96.99	130.12	-0.82	10.78
Coke ovens	2.40	2.25	5.97	13.25	13.42	13.28	14.06	7.88	5.17
Blast furnace inputs	0.01	0.01	4.41	10.46	9.74	10.29	10.13	75.96	5.02
Gas manufacture	1.83	1.61	0.38	-	-	-	-	-12.22	-
Industry sector	92.99	101.63	115.64	99.25	94.91	99.06	101.10	1.83	-0.79
Iron and steel	*9.59*	*8.43*	*7.14*	*7.35*	*9.16*	*9.55*	*9.45*	*-2.43*	*1.66*
Chemical	*13.82*	*17.07*	*22.51*	*17.38*	*14.62*	*14.64*	*14.16*	*4.15*	*-2.69*
Non-metallic minerals	*27.16*	*33.86*	*41.34*	*36.28*	*31.52*	*31.91*	*33.72*	*3.56*	*-1.19*
Paper, pulp and print	*9.02*	*9.62*	*15.77*	*8.52*	*11.35*	*11.68*	*11.38*	*4.77*	*-1.90*
Other industry	*33.41*	*32.65*	*28.89*	*29.72*	*28.26*	*31.29*	*32.39*	*-1.20*	*0.67*
Res, comm & pub serv[(1)]	57.64	55.46	33.37	17.45	17.25	17.27	17.39	-4.45	-3.76
Non-energy use	0.08	0.11	0.33	0.36	0.68	0.52	0.72	12.80	4.70
Coking coal	**292.81**	**308.75**	**255.48**	**205.48**	**190.45**	**194.47**	**198.34**	**-1.13**	**-1.48**
Total electricity and heat	7.14	10.83	18.23	13.37	12.70	12.20	13.48	8.12	-1.76
Main activity producers	*6.19*	*9.59*	*14.32*	*10.17*	*10.73*	*9.95*	*11.40*	*7.23*	*-1.33*
Autoproducers	*0.95*	*1.25*	*3.91*	*3.20*	*1.97*	*2.25*	*2.08*	*12.52*	*-3.64*
Patent fuel/BKB plants	-	-	-	-	2.81	2.26	2.37	-	-
Coke ovens	275.47	289.83	228.07	171.28	156.73	161.01	160.47	-1.56	-2.05
Blast furnace inputs	-	0.28	6.71	15.81	18.75	19.03	21.28	-	7.03
Gas manufacture	6.91	6.33	0.26	-	-	-	-	-23.92	-
Industry sector	0.26	0.25	2.14	2.59	0.80	0.73	0.45	19.24	-8.81
Iron and steel	*0.07*	*0.01*	*1.63*	*0.18*	*0.21*	*0.49*	*0.19*	*30.01*	*-11.78*
Chemical	*0.01*	*0.01*	*-*	*0.00*	*-*	*-*	*-*	*-*	*-*
Non-metallic minerals	*0.00*	*0.01*	*0.01*	*0.02*	*0.01*	*0.02*	*0.04*	*13.00*	*6.83*
Paper, pulp and print	*-*	*-*	*-*	*-*	*-*	*-*	*-*	*-*	*-*
Other industry	*0.18*	*0.21*	*0.49*	*2.39*	*0.57*	*0.22*	*0.21*	*8.98*	*-4.85*
Res, comm & pub serv[(1)]	0.28	0.33	0.16	0.10	0.13	0.11	0.08	-4.53	-4.21
Non-energy use	-	-	-	0.23	0.22	0.23	0.23	-	-
Brown coal/lignite	**666.47**	**700.63**	**825.39**	**629.83**	**629.47**	**621.23**	**630.26**	**1.80**	**-1.57**
Total electricity and heat	427.96	456.10	613.94	584.84	588.70	575.08	587.85	3.05	-0.26
Main activity producers	*410.91*	*435.18*	*584.14*	*576.18*	*580.57*	*567.03*	*582.36*	*2.97*	*-0.02*
Autoproducers	*17.05*	*20.91*	*29.80*	*8.66*	*8.12*	*8.05*	*5.48*	*4.76*	*-9.48*
Patent fuel/BKB plants	137.19	142.64	110.75	13.13	13.33	13.73	12.88	-1.77	-11.89
Coke ovens	-	-	-	0.00	0.00	0.00	0.00	-	-
Gas manufacture	6.40	6.34	8.49	7.02	6.88	7.10	6.82	2.38	-1.28
Industry sector	51.14	50.46	45.10	17.14	10.66	11.70	10.77	-1.04	-8.08
Iron and steel	*1.12*	*1.44*	*2.25*	*1.00*	*0.89*	*0.84*	*0.80*	*6.02*	*-5.93*
Chemical	*14.39*	*15.72*	*11.02*	*3.52*	*3.43*	*3.41*	*2.04*	*-2.20*	*-9.46*
Non-metallic minerals	*1.65*	*1.67*	*2.12*	*0.90*	*0.56*	*0.68*	*0.87*	*2.10*	*-5.11*
Paper, pulp and print	*4.51*	*4.63*	*2.09*	*0.58*	*0.51*	*0.43*	*0.45*	*-6.21*	*-8.68*
Other industry	*29.47*	*26.99*	*27.63*	*11.14*	*5.28*	*6.34*	*6.62*	*-0.54*	*-8.06*
Res, comm & pub serv[(1)]	28.94	37.01	41.60	8.82	8.07	9.33	9.54	3.07	-8.30
Non-energy use	0.83	0.82	0.67	0.16	0.21	0.20	0.20	-1.78	-6.86

Source: *IEA/OECD Energy Statistics of OECD Countries*

(1) Residential, commercial and public services.

* Please refer to notes in *Principles and Definitions*.

OECD Total

7. FUEL PRICES TO END USERS*

	1978[1]	1980	1990	2000	2004	2005	2006	2007	2008
					(US dollars / tce)				
For electricity generation									
Steam coal	..	..	..	..	..	..	..	..	..
Heavy fuel oil	..	..	..	..	..	..	..	..	..
Natural gas	..	..	..	..	..	..	..	..	..
For industry									
Steam coal	..	..	..	..	..	..	..	..	..
Coking coal	..	..	..	..	..	..	..	..	..
High sulphur fuel oil	..	..	..	..	..	..	..	..	..
Low sulphur fuel oil	..	..	..	..	..	..	..	..	..
Natural gas	..	..	..	..	..	..	..	..	..
					(US dollars / unit)[2]				
For electricity generation									
Steam coal	..	..	..	..	..	..	..	..	..
Heavy fuel oil	..	..	..	..	..	..	..	..	..
Natural gas	..	..	..	..	..	..	..	..	..
For industry									
Steam coal	..	..	..	..	..	..	..	..	..
Coking coal	..	..	..	..	..	..	..	..	..
High sulphur fuel oil	..	..	..	..	..	..	..	..	..
Low sulphur fuel oil	..	..	..	..	..	..	..	..	..
Natural gas	..	..	..	..	..	..	..	..	..

Source: *IEA/OECD Energy Prices & Taxes*

(1) Earliest year for which split by coal type is available.

(2) For steam coal, coking coal and heavy fuel oil per metric tonne; for natural gas per 10^7 kilocalories GCV.

* Please refer to notes in *Principles and Definitions*.

8. COAL TRADE BY TYPE OF COAL*

(Mtce)

	1973	1980	1990	2000	2004	2005	2006	2007	2008e
Total imports	**173.89**	**235.98**	**310.78**	**425.93**	**515.31**	**502.27**	**535.40**	**547.23**	**540.68**
Hard coal	144.69	209.71	289.61	399.11	485.54	477.52	510.80	522.48	513.42
Coking coal	*..*	*125.70*	*139.65*	*134.80*	*136.50*	*132.44*	*136.17*	*140.06*	*140.55*
Steam coal	*..*	*84.00*	*149.95*	*264.31*	*349.04*	*345.08*	*374.63*	*382.41*	*372.87*
Brown coal / lignite	5.30	5.73	7.18	5.35	5.58	5.72	5.07	5.64	7.86
Peat	-	-	0.10	0.10	0.16	0.13	0.11	0.16	0.16
Coal products[1]	23.90	20.54	13.90	21.37	24.02	18.90	19.42	18.95	19.24
Total exports	**158.67**	**214.92**	**284.91**	**305.55**	**315.12**	**325.93**	**332.06**	**350.88**	**371.11**
Hard coal	131.78	187.26	262.97	289.21	298.74	310.87	313.60	333.42	352.84
Coking coal	*..*	*124.91*	*160.15*	*162.06*	*159.18*	*176.06*	*171.14*	*185.71*	*198.86*
Steam coal	*..*	*62.34*	*102.82*	*127.15*	*139.56*	*134.82*	*142.46*	*147.71*	*153.97*
Brown coal / lignite	1.44	4.58	4.79	3.84	2.66	2.88	2.84	2.83	4.34
Peat	-	0.00	0.12	0.06	0.04	0.05	0.04	0.02	0.01
Coal products[1]	25.46	23.08	17.03	12.43	13.68	12.13	15.59	14.61	13.93

Source: *IEA/OECD Energy Balances of OECD Countries, IEA/OECD Energy Statistics of OECD Countries*

(1) Coal products includes products derived from coal, for example: coke, coal tar, briquettes, patent fuels.

* Please refer to notes in *Principles and Definitions*.

OECD Total

9. HARD COAL IMPORTS BY ORIGIN*

(thousand tonnes)

	1978[1]	1980	1990	2000	2004	2005	2006	2007	2008e
Hard Coal	**165001**	**217820**	**305041**	**441770**	**538284**	**538874**	**573768**	**590954**	**579966**
Coking Coal	**98987**	**122642**	**136493**	**138570**	**140363**	**135929**	**139604**	**143779**	**144188**
Australia	29796	32520	49608	67156	68654	65876	68690	73429	66470
Canada	11598	11811	16250	17972	14050	15011	15484	17796	18740
Czech Republic	909	1072	774	3388	3656	3366	4562	4678	3891
Germany	10948	8326	3141	2	108	289	3	-	1
Poland	6619	5055	2570	3125	2955	3253	4053	3246	3400
United Kingdom	79	66	65	-	5	6	-	-	-
United States	25075	48999	43205	24037	18098	19348	17773	18651	23493
Other OECD	116	252	305	398	419	440	403	299	610
China, People's Rep.	420	979	2803	9557	14641	10111	9194	5967	4114
Colombia	-	-	177	140	287	202	222	163	348
Indonesia	-	-	714	6327	9201	9850	10622	10659	17211
South Africa	2566	3347	3213	991	456	320	90	284	494
Former USSR[2]	5249	4890	-	-	-	-	-	-	-
Russia[3]	-	-	*8569*	*4825*	*6058*	*6326*	*6689*	*6386*	*3686*
Other Former USSR[3]	-	-	-	*26*	*613*	*548*	*713*	*654*	*82*
Venezuela	-	-	-	454	969	872	815	1059	1023
Vietnam	-	-	-	80	-	-	40	-	75
Non-specified/other	5612	5325	5099	92	193	111	251	508	550
Steam coal	**66014**	**95178**	**168548**	**303200**	**397921**	**402945**	**434164**	**447175**	**435778**
Australia	4556	9137	34664	77808	96918	100913	101184	105246	120797
Canada	970	1099	9885	10649	6189	6703	7641	9976	4855
Czech Republic	243	255	327	2393	1801	1004	1214	1368	2143
Germany	6716	4145	2124	437	549	572	435	433	507
Poland	16292	17258	10802	17721	15278	14841	13987	9511	6414
United Kingdom	2285	4184	2428	593	352	298	195	269	390
United States	9296	24092	35894	21907	15677	10973	12983	13992	20368
Other OECD	980	1406	3686	4308	3346	3554	3569	5222	6290
China, People's Rep.	534	1503	6287	34741	42657	35032	31370	30244	29942
Colombia	-	-	10450	29234	41657	47961	53857	57737	55990
Indonesia	-	9	1000	23066	47184	52903	66637	69054	56520
South Africa	11967	21112	33156	46319	55933	53092	55514	49170	39868
Former USSR[2]	3012	2638	-	-	-	-	-	-	-
Russia[3]	-	-	*9517*	*20881*	*51967*	*59659*	*69221*	*73545*	*75029*
Other Former USSR[3]	-	-	-	*894*	*2430*	*3183*	*2696*	*2237*	*3323*
Venezuela	-	-	1752	5041	6127	5108	5343	5036	3247
Vietnam	-	-	150	1573	3591	2699	3310	3199	2820
Non-specified/other	9163	8340	6426	5635	6265	4450	5008	10936	7275

Source: IEA/OECD Coal Statistics

(1) Earliest year for which split by coal type is available.

(2) If no detail.

(3) Data for former republics are not available separately for some OECD member countries.

* Please refer to notes in *Principles and Definitions*.

OECD Total

10. COKING COAL EXPORTS BY DESTINATION*

(thousand tonnes)

	1978[1]	1980	1990	2000	2004	2005	2006	2007	2008e
Total Exports	**107072**	**126266**	**162292**	**168603**	**167676**	**185601**	**180273**	**195578**	**209638**
Exports to:									
Total OECD	**90281**	**111797**	**122399**	**127377**	**117684**	**130728**	**124623**	**128451**	**138136**
Australia	-	-	-	122	-	-	-	-	-
Austria	1283	1131	1351	1844	1713	1753	1547	1583	1524
Belgium	3860	4257	7450	4551	2733	3429	3594	3363	4713
Canada	5410	5694	4018	3501	3431	4034	4134	3299	3266
Czech Republic	-	-	-	214	462	523	944	1032	877
Denmark	-	144	50	-	20	-	-	-	228
Finland	-	47	330	1005	1090	1181	1172	719	970
France	8972	9802	8494	6629	5657	5535	5061	5645	5532
Germany	714	1916	877	4891	3862	4373	4658	2805	4029
Greece	245	511	-	-	553	-	-	-	276
Hungary	-	-	-	1075	385	449	674	580	499
Iceland	-	6	28	48	82	57	19	30	50
Ireland	-	198	3	4	5	15	1	-	68
Italy	8393	9863	8734	7381	4607	6494	6507	6595	5948
Japan	43380	56488	55410	52798	49895	54153	52688	57550	60079
Korea	2503	4260	7852	15305	13986	17931	12277	11482	14405
Luxembourg	286	1	-	-	-	-	-	-	-
Mexico	10	28	3	1406	1704	1582	2125	1565	2193
Netherlands	3347	3828	5273	4745	7461	8020	9336	10034	9950
New Zealand	-	-	-	-	-	-	-	-	-
Norway	193	332	99	95	32	18	-	19	78
Poland	-	-	-	538	572	592	1367	2264	2117
Portugal	387	365	805	198	88	-	-	-	-
Slovak Republic	5126	4345	3681	1570	2308	1909	2353	2820	2538
Spain	3257	3517	4499	4163	3742	4218	3109	3323	3871
Sweden	840	1197	1568	2128	1777	1690	1596	1741	1825
Switzerland	18	99	3	46	22	-	-	-	257
Turkey	498	796	2869	3954	3139	3599	3357	3826	4504
United Kingdom	1402	2972	8230	8626	6449	7366	6606	6708	6772
United States	157	-	772	540	1909	1807	1498	1468	1567
Total Non-OECD	**8840**	**13350**	**30609**	**37791**	**43729**	**50743**	**46195**	**55935**	**56783**
Brazil	2121	3725	8867	10695	8779	8376	9288	10870	10769
Chinese Taipei	1186	1196	3155	7713	6749	8365	8937	8036	6463
Egypt	218	1021	1009	1211	1157	1414	1392	1951	1737
Hong Kong, China	-	-	-	-	-	-	-	-	-
India	232	490	5179	10795	14304	18271	17081	20334	25668
Israel	-	-	50	56	-	129	194	273	281
Romania	1348	1120	3915	505	311	593	146	543	1998
Oth. Africa & Mid. East	521	808	1068	1825	2735	3184	881	2789	2664
Other Latin America	951	1808	2621	1869	2050	2381	2513	2692	1895
Other Asia & Oceania	69	168	1823	1316	6447	6363	3937	4059	2695
Other Europe and FSU	2194	3014	2922	1806	1197	1667	1826	4388	2613
Non-Specified/Other	**7951**	**1119**	**9284**	**3435**	**6263**	**4130**	**9455**	**11192**	**14719**

Source: IEA/OECD Coal Statistics

(1) Earliest year for which split by coal type is available.

* Please refer to notes in *Principles and Definitions*.

OECD Total

11. STEAM COAL EXPORTS BY DESTINATION*

(thousand tonnes)

	1978[1]	1980	1990	2000	2004	2005	2006	2007	2008e
Total Exports	**49931**	**70198**	**112918**	**143993**	**159181**	**155271**	**161878**	**168760**	**175420**
Exports to:									
Total OECD	**40497**	**59836**	**93309**	**120308**	**134569**	**128801**	**135252**	**134892**	**144332**
Australia	-	-	2	-	-	-	-	-	-
Austria	275	438	1216	1312	1622	1201	1316	1360	908
Belgium	2660	3859	3778	1541	1258	1293	845	770	1465
Canada	8782	10136	10083	13524	12681	13644	13951	13418	17553
Czech Republic	274	2302	2282	864	783	719	946	1377	892
Denmark	4620	6260	5817	2594	2262	1220	1371	1053	766
Finland	4095	3925	2815	1228	1272	963	927	450	313
France	6755	8815	3859	3411	3274	3613	3644	3438	3841
Germany	4157	6012	5231	15020	16814	13088	16278	18035	11178
Greece	1	5	-	112	69	144	133	172	142
Hungary	-	-	-	279	258	300	264	158	104
Iceland	-	12	33	7	16	45	88	91	59
Ireland	540	931	2248	1208	1626	1163	509	847	1060
Italy	1552	2166	5051	1430	727	409	155	941	1864
Japan	1732	5007	30637	51874	60676	58536	60978	60912	69266
Korea	356	563	4352	13730	16886	18719	21157	16041	20736
Luxembourg	52	96	3	93	42	38	30	96	74
Mexico	-	-	188	373	2367	4579	4918	5218	1350
Netherlands	1285	3596	9559	3556	2698	2240	1506	3943	4264
New Zealand	-	-	1	16	106	56	82	85	80
Norway	167	108	369	671	592	496	417	387	344
Poland	-	-	1	15	7	82	17	22	391
Portugal	15	33	1572	348	781	580	411	486	645
Slovak Republic	237	322	-	286	294	257	206	169	143
Spain	21	983	762	2327	1559	729	1464	1189	1688
Sweden	244	289	1034	253	453	443	366	404	483
Switzerland	90	318	81	20	8	8	17	2	250
Turkey	79	-	15	110	67	178	-	1	34
United Kingdom	1081	3312	2095	3866	4436	3668	2866	3567	4232
United States	1427	348	225	240	935	390	390	260	207
Total Non-OECD	**384**	**3006**	**14604**	**23103**	**23803**	**26268**	**26316**	**33864**	**30840**
Brazil	11	110	345	22	883	726	231	206	435
Chinese Taipei	76	1521	6866	10034	9896	14330	13208	16235	18559
Egypt	-	-	1	2	1	4	17	16	22
Hong Kong, China	-	-	2551	421	1202	374	77	14	-
India	-	-	48	2469	2105	1679	1567	746	734
Israel	-	-	1058	2623	1716	1170	321	679	505
Romania	-	462	49	-	135	844	931	1151	73
Oth. Africa & Mid. East	32	89	1057	828	859	499	192	2487	1738
Other Latin America	82	576	642	1438	1358	681	1206	1464	1353
Other Asia & Oceania	129	166	1624	4321	5354	5765	8357	10716	7035
Other Europe and FSU	54	82	363	945	294	196	209	150	386
Non-Specified/Other	**9050**	**7356**	**5005**	**582**	**809**	**202**	**310**	**4**	**248**

Source: IEA/OECD Coal Statistics

(1) Earliest year for which split by coal type is available.

* Please refer to notes in *Principles and Definitions*.

OECD Total

12. COAL IMPORT VALUES BY ORIGIN*

(average unit value, CIF, US$/tonne)

	1988	1990	1995	2003	2004	2005	2006	2007	2008
Coking coal[1]	**55.65**	**62.27**	**56.28**	**47.26**	**67.40**	**97.98**	**106.49**	**103.59**	**189.64**
Imports from:									
Australia	49.29	57.64	52.80	47.25	61.26	102.47	115.04	105.28	210.52
Canada	66.05	70.37	62.94	53.90	66.39	109.56	129.34	116.78	219.98
Czech Republic	182.83	67.03	82.00	..	98.50	242.07	112.10	133.32	235.16
Poland	54.82	63.98	59.26	62.24	108.71	138.92	118.82	139.47	245.85
United States	58.55	64.21	61.25	64.21	107.28	119.94	125.05	126.15	191.98
China	46.06	54.50	49.58	40.48	82.31	109.89	98.79	110.31	263.49
Colombia	43.53	60.89	50.11	166.16	85.79	104.26	88.44	92.53	169.10
South Africa	42.38	50.58	49.57	39.20	61.31	71.77	66.18	96.82	141.18
Former USSR[2]	50.18	57.45	54.95	46.67	73.25	104.12	101.81	98.26	211.14
Steam coal[3]	**44.85**	**51.81**	**47.14**	**37.37**	**55.34**	**64.85**	**63.38**	**72.84**	**120.59**
Imports from:									
Australia	43.45	52.17	48.23	35.69	51.71	64.06	65.13	71.55	122.94
Canada	43.28	43.38	40.99	37.49	54.90	79.68	60.96	69.76	108.23
Czech Republic	57.22	65.54	63.84	64.04	83.24	113.59	102.69	112.36	158.65
Poland	51.56	61.05	46.78	43.26	68.95	78.34	75.65	94.13	156.01
United States	54.03	54.63	49.60	47.37	60.50	82.18	77.37	96.56	137.60
China	38.91	48.34	44.63	32.60	53.48	62.75	60.32	71.23	117.72
Colombia	39.31	50.88	41.58	37.58	52.34	59.93	58.42	65.05	97.31
South Africa	37.89	45.38	44.19	39.05	58.03	67.68	66.20	80.13	140.79
Former USSR[2]	39.41	45.48	42.87	39.68	63.56	67.35	66.20	77.44	129.23

Source: IEA/OECD Coal Statistics

Note: On occasion, shipment of extremely small quantities of high valued coal results in high import costs.

(1) Weighted average of individual countries using import volumes as weights. Prices exclude intra-EU trade.

(2) Former USSR until 1991, Russia starting in 1992.

(3) Bituminous steam coal only. Weighted average of individual countries using volumes as weights. Prices exclude intra-EU trade.

* Please refer to notes in *Principles and Definitions*.

OECD North America*

Chart 1: TPES by fuel (Mtce)

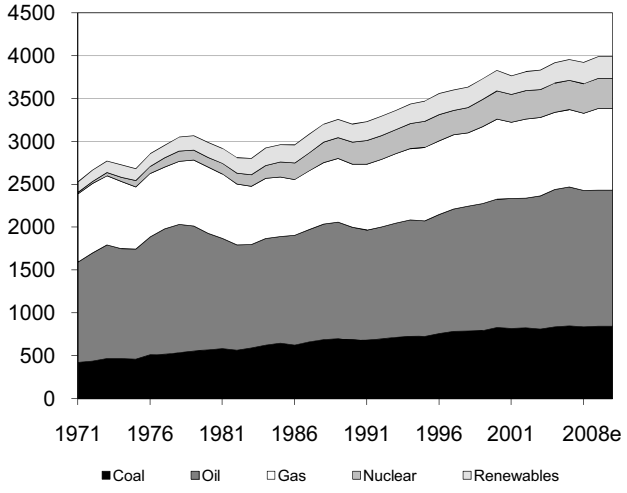


Chart 2: Coal supply indicators (1971 = 100)

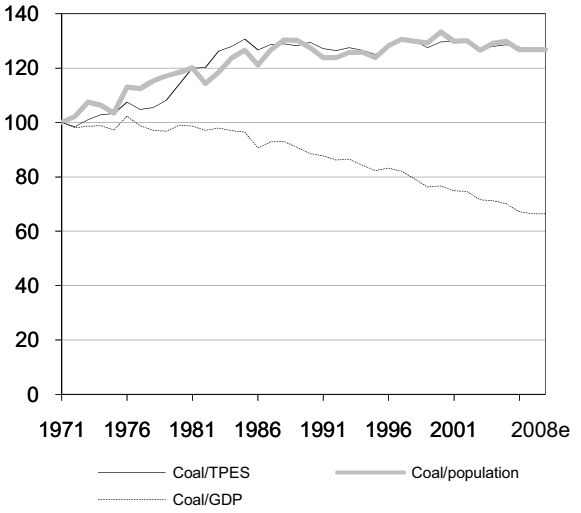


Chart 3: Primary coal supply (Mtce)

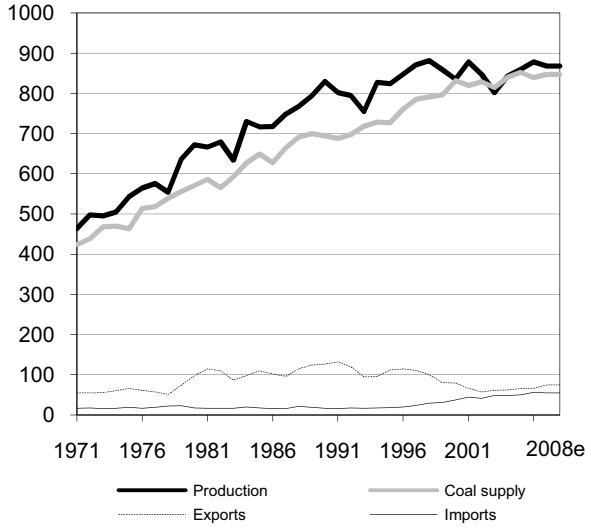


Chart 4: Coal consumption (Mtce)

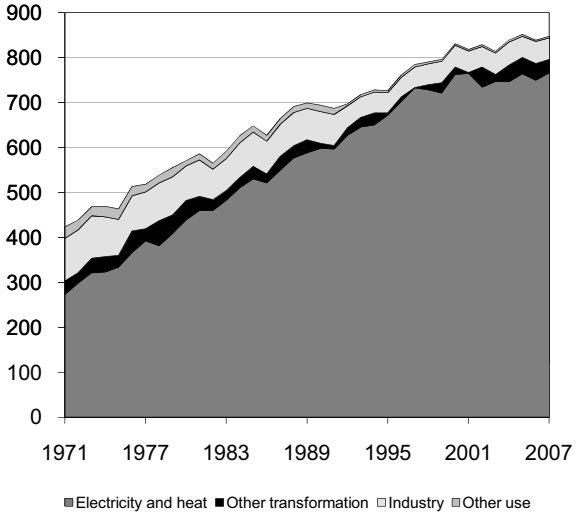


Chart 5: Electricity generation by fuel (TWh)

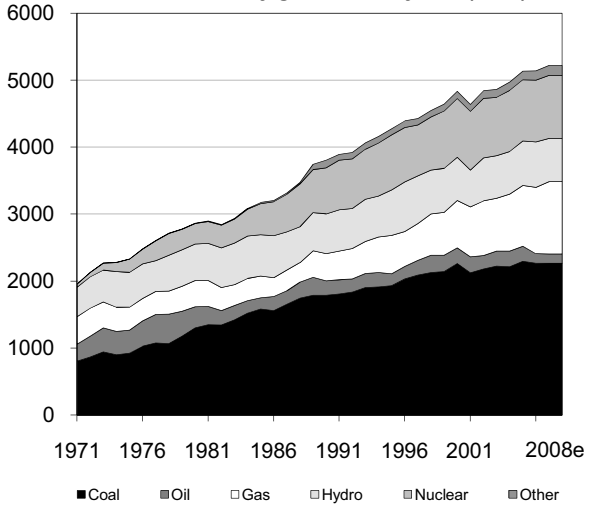
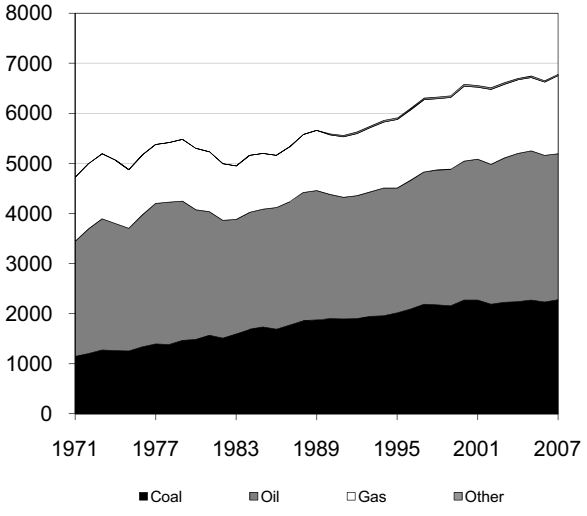


Chart 6: CO_2 emissions by fuel (Mt CO_2)



*Please refer to notes in *Principles and Definitions* . Peat is included in coal for all charts.

OECD North America

1. TOTAL PRIMARY ENERGY SUPPLY (TPES) BY FUEL*

	1973	1980	1990	2000	2006	2007	2008e	Average annual percent change 73-90	90-07
TPES (Mtce)	**2774.08**	**2989.13**	**3204.30**	**3831.26**	**3924.43**	**3990.82**	**3929.59**	**0.85**	**1.30**
Coal and peat	468.78	571.18	694.45	831.57	839.49	847.60	837.32	2.34	1.18
Oil	1327.64	1357.00	1305.02	1495.59	1590.60	1584.39	1501.12	-0.10	1.15
Gas	803.26	773.52	737.26	936.18	900.26	954.25	977.77	-0.50	1.53
Comb. renew/waste	73.60	98.59	111.25	132.66	140.34	145.98	148.57	2.46	1.61
Nuclear	39.01	113.96	256.50	327.15	344.38	350.16	350.53	11.71	1.85
Hydro	58.51	67.18	72.90	79.22	83.25	79.28	81.49	1.30	0.49
Geothermal	3.21	7.70	26.44	25.94	20.55	21.64	23.53	13.21	-1.17
Solar, wind, tide	-	-	0.46	3.04	5.74	6.92	9.34	-	17.26
Net electricity trade[1]	0.07	0.01	0.03	-0.10	-0.18	0.59	-0.08	-4.35	18.61
Heat[2]	-	-	-	-	-	-	-	-	-

Source: *IEA/OECD Energy Balances of OECD Countries*

(1) Net trade between OECD and non-OECD countries.

(2) Ambient heat from heat pumps used in the transformation sector.

2. ENERGY SUPPLY, GDP AND POPULATION*

	1973	1980	1990	2000	2006	2007	2008e	Average annual percent change 73-90	90-07
GDP (2000 bil. US$)	4875	5918	8051	11126	12819	13092	13235	3.00	2.90
TPES/GDP[1]	0.57	0.51	0.40	0.34	0.31	0.30	0.30	-2.08	-1.56
Population (millions)	287.7	317.9	359.1	411.4	436.6	440.7	444.9	1.31	1.21
TPES/population[1]	9.64	9.40	8.92	9.31	8.99	9.05	8.83	-0.46	0.09
TPES/GDP[2]	165.3	146.7	115.6	100.0	88.9	88.5	86.2	-2.08	-1.56
Coal and peat supply/GDP[2]	128.7	129.1	115.4	100.0	87.6	86.6	84.7	-0.64	-1.67
Elec. consumption/GDP[2]	105.7	108.3	105.1	100.0	92.4	92.9	..	-0.03	-0.72
Elec. generation (TWh)	2273	2868	3809	4835	5140	5220	5220	3.08	1.87
Industrial production[2]	..	..	..	..	..	..	..	-	-

Source: *IEA/OECD Energy Balances of OECD Countries* , *OECD Main Economic Indicators*

(1) TPES/GDP in units of tce/2000 thousand US$, TPES/population in units of tce/capita.

(2) As index, 2000 = 100

3. COAL AND PEAT PRODUCTION BY TYPE*

	1978[1]	1980	1990	2000	2006	2007	2008e	Average annual percent change 78-90	90-07
Mtce:									
Coking coal	109.25	135.46	124.00	80.68	66.24	70.48	79.89	1.06	-3.27
Steam coal	421.01	505.67	649.39	696.78	754.19	742.67	753.45	3.68	0.79
Brown coal	23.37	30.53	55.94	57.79	57.77	54.97	53.32	7.54	-0.10
Peat	-	-	-	-	-	-	-	-	-
Mt:									
Coking coal	109.07	134.96	123.88	84.67	72.51	77.35	87.20	1.07	-2.73
Steam coal	487.96	598.48	774.37	854.46	960.35	949.66	964.04	3.92	1.21
Brown coal	44.51	59.30	110.57	112.98	112.53	106.93	103.57	7.88	-0.20
Peat	-	-	-	-	-	-	-	-	-

Source: *IEA/OECD Energy Balances of OECD Countries, IEA/OECD Energy Statistics of OECD Countries*

(1) Earliest year for which split by coal type is available.

* Please refer to notes in *Principles and Definitions* .

OECD North America

4. FINAL CONSUMPTION OF ENERGY BY FUEL*

(Mtce)

	1973	1980	1990	2000	2005	2006	2007	Average annual percent change 73-90	90-07
TFC[1]	**2123.35**	**2188.96**	**2196.93**	**2617.91**	**2690.32**	**2681.03**	**2725.11**	**0.20**	**1.28**
Coal and peat	114.77	88.71	84.33	51.77	51.16	52.04	51.08	-1.80	-2.91
Oil	1130.47	1155.45	1152.71	1334.91	1439.88	1436.17	1428.37	0.11	1.27
Gas	569.00	552.10	514.93	612.07	546.26	527.80	560.06	-0.59	0.50
Comb. renew/wastes	73.21	98.10	53.19	98.53	101.83	108.58	114.09	-1.86	4.59
Geothermal	-	-	0.48	0.74	1.22	1.32	1.48	-	6.85
Solar, wind, tide	-	-	-	2.12	1.88	1.96	2.05	-	-
Electricity	235.76	293.12	387.23	509.00	542.04	541.75	556.49	2.96	2.16
Heat	0.14	1.47	4.05	8.77	6.06	11.39	11.49	22.06	6.33
of which:									
Total industry	**647.75**	**656.67**	**510.50**	**593.94**	**527.35**	**537.52**	**540.53**	**-1.39**	**0.34**
Coal and peat	94.60	77.07	70.12	48.10	46.95	49.30	47.98	-1.75	-2.21
Oil	128.24	153.01	85.76	56.84	70.05	65.97	60.91	-2.34	-1.99
Gas	279.33	254.55	196.51	240.32	193.88	197.40	206.47	-2.05	0.29
Comb. renew/wastes	50.87	58.55	23.55	63.91	58.75	64.30	62.72	-4.43	5.93
Geothermal	-	-	-	0.16	0.15	0.16	0.17	-	-
Solar, wind, tide	-	-	-	-	-	-	-	-	-
Electricity	94.57	112.05	133.65	177.51	152.64	151.26	153.15	2.06	0.80
Heat	0.14	1.43	0.90	7.11	4.92	9.13	9.14	11.73	14.61
Total transport	**657.53**	**703.41**	**800.18**	**965.17**	**1041.27**	**1051.39**	**1063.30**	**1.16**	**1.69**
Coal and peat	0.18	-	-	-	-	-	-	-	-
Oil	632.33	679.29	773.03	929.80	1000.50	1005.90	1010.39	1.19	1.59
Gas	24.06	23.41	26.15	29.39	27.41	27.52	29.19	0.49	0.65
Comb. renew/wastes	-	-	-	4.74	11.77	16.36	22.07	-	-
Electricity	0.97	0.71	1.01	1.23	1.59	1.61	1.65	0.24	2.94
Residential	**387.91**	**364.33**	**362.07**	**446.05**	**458.73**	**431.51**	**454.21**	**-0.40**	**1.34**
Coal and peat	4.77	2.35	2.17	1.99	0.05	0.06	0.05	-4.54	-19.79
Oil	123.97	80.88	53.74	61.13	55.08	48.89	50.05	-4.80	-0.42
Gas	170.85	170.95	163.89	186.68	181.96	165.62	179.47	-0.24	0.54
Comb. renew/wastes	9.70	10.35	10.30	25.97	28.10	24.42	25.77	0.35	5.54
Geothermal	-	-	-	0.31	0.57	0.66	0.79	-	-
Solar, wind, tide	-	-	-	2.06	1.76	1.83	1.89	-	-
Electricity	78.61	99.80	131.98	167.92	191.21	190.04	196.19	3.09	2.36
Heat	-	-	0.00	-	0.00	0.00	0.00	-	4.16
Comm & public services	**237.59**	**232.58**	**261.73**	**319.96**	**335.98**	**329.78**	**341.62**	**0.57**	**1.58**
Coal and peat	4.87	2.63	3.41	1.30	2.98	2.17	2.41	-2.07	-2.03
Oil	79.66	54.63	38.14	34.52	38.40	35.36	34.84	-4.24	-0.53
Gas	94.03	96.74	99.39	120.26	114.15	107.81	114.64	0.33	0.84
Comb. renew/waste	-	-	-	1.77	2.94	3.09	3.01	-	-
Geothermal	-	-	-	0.27	0.49	0.50	0.52	-	-
Solar, wind, tide	-	-	-	0.06	0.12	0.13	0.15	-	-
Electricity	59.03	78.54	117.71	160.17	175.83	178.51	183.76	4.14	2.65
Heat	-	0.04	3.08	1.59	1.07	2.21	2.29	-	-1.73
Non-energy use	**140.54**	**169.40**	**204.96**	**260.44**	**274.86**	**277.46**	**272.14**	**2.24**	**1.68**
Coal and peat	-	0.18	0.50	0.38	0.56	0.49	0.57	-	0.83
Oil	139.81	163.15	176.18	225.49	246.05	248.16	241.96	1.37	1.88
Gas	0.73	6.06	28.28	34.58	28.24	28.81	29.61	24.03	0.27

Source: *IEA/OECD Energy Balances of OECD Countries*

(1) Total Final Consumption (TFC) excludes use in transformation and energy sectors.

* Please refer to notes in *Principles and Definitions*.

OECD North America

5. COAL BALANCE*

(Mtce)

	1973	1980	1990	2000	2006	2007	2008e	Average annual percent change 73-90	90-07
Production	495.1	671.7	829.3	835.2	878.2	868.1	886.7	3.1	0.3
Imports	16.4	17.9	16.9	37.7	56.4	54.7	51.0	0.2	7.1
Exports	-55.2	-98.0	-126.2	-79.9	-65.6	-74.6	-95.9	5.0	-3.0
Stock changes	12.5	-20.4	-25.6	38.5	-29.5	-0.7	-4.4	x	x
Primary supply	**468.8**	**571.2**	**694.4**	**831.6**	**839.5**	**847.6**	**837.3**	**2.3**	**1.2**
Statistical difference	**18.6**	**-11.1**	**12.2**	**7.3**	**-19.8**	**-15.2**	**..**	**x**	**x**
Total transformation	**-363.9**	**-467.7**	**-620.4**	**-785.0**	**-764.0**	**-777.7**	**..**	**3.2**	**1.3**
Electricity and heat gen.	-321.8	-438.7	-598.3	-763.1	-750.5	-766.5	..	3.7	1.5
Main activity producers (1)	*-321.8*	*-438.7*	*-592.1*	*-745.5*	*-743.8*	*-761.0*	..	*3.7*	*1.5*
Autoproducers	-	*-0.0*	*-6.2*	*-17.5*	*-6.6*	*-5.5*	..	-	*-0.7*
Gas works	-0.1	-	-2.7	-2.7	-2.9	-2.6	..	26.3	-0.2
Coal transformation(2)	-42.1	-29.0	-19.3	-19.2	-10.7	-8.6	..	-4.5	-4.7
BKB plants	-	-	-	-	-	-	..	-	-
Blast furnaces	*-27.7*	*-18.4*	*-12.9*	*-13.1*	*-10.3*	*-9.8*	..	*-4.4*	*-1.6*
Coke ovens	*-14.3*	*-10.6*	*-6.4*	*-6.1*	*-4.3*	*-4.5*	..	*-4.7*	*-2.0*
Patent fuel plants	-	-	-	-	*3.9*	*5.8*	..	-	-
Other transformation(3)	-	-	-	-	-	-	..	-	-
Own use	**-8.7**	**-3.6**	**-2.0**	**-2.2**	**-3.6**	**-3.6**	**..**	**-8.4**	**3.6**
Distribution losses	**-0.0**	**-0.0**	**-**	**-**	**-**	**-**	**..**	**x**	**x**
Final consumption(4)	**114.8**	**88.7**	**84.3**	**51.8**	**52.0**	**51.1**	**..**	**-1.8**	**-2.9**
Industry sector(5)	94.6	77.1	70.1	48.1	49.3	48.0	..	-1.7	-2.2
Iron and steel	*54.0*	*36.0*	*21.2*	*14.5*	*9.1*	*8.3*	..	*-5.4*	*-5.4*
Chemical	*11.9*	*11.2*	*12.4*	*9.3*	*7.4*	*7.3*	..	*0.2*	*-3.1*
Non-metallic minerals	*5.9*	*10.3*	*11.6*	*12.1*	*11.8*	*12.0*	..	*4.1*	*0.2*
Paper, pulp and print	*7.1*	*7.4*	*10.4*	*3.6*	*6.8*	*6.5*	..	*2.2*	*-2.7*
Transport sector(6)	0.2	-	-	-	-	-	..	-	-
Other sectors(7)	20.0	11.5	13.7	3.3	2.3	2.5	..	-2.2	-9.5
Comm. and pub. services	*4.9*	*2.6*	*3.4*	*1.3*	*2.2*	*2.4*	..	*-2.1*	*-2.0*
Residential	*4.8*	*2.4*	*2.2*	*2.0*	*0.1*	*0.1*	..	*-4.5*	*-19.8*
Non-energy use	-	0.2	0.5	0.4	0.5	0.6	..	-	0.8

Source: *IEA/OECD Energy Balances of OECD Countries*

(1) Main activity electricity and heat generation includes district heating.

(2) Coal transformation refers to the transformation of coal and peat to secondary and tertiary products (mainly coke, briquettes, coke oven gas and blast furnace gas).

(3) Other transformation includes liquefaction and non-specified transformation.

(4) Final Consumption includes non-energy use and energy use (industry, transport and other sectors).

(5) Please refer to notes in *Principles and Definitions* for detailed explanation.

(6) Transport sector includes rail and inland waterways.

(7) Other sectors includes commercial and public services, agriculture, and residential.

* "Coal" refers to all types of coal, primary (anthracite, coking coal, other bituminous coal, sub-bituminous coal, lignite/brown coal, peat) and derived fuels (including patent fuel, BKB/peat briquettes, coke oven coke, gas coke, coal tar, coke oven gas, gas works gas, blast furnace gas and oxygen steel furnace gas). Quantities have been converted to Mtce using calorific values reported by the respective countries. Please refer to notes in *Principles and Definitions*.

OECD North America

6. USE OF COAL FOR SELECTED END-USES*

(million tonnes)

	1978	1980	1990	2000	2005	2006	2007	Average annual percent change 78-90	90-07
Steam coal	**496.24**	**560.62**	**719.49**	**895.56**	**965.73**	**953.68**	**968.93**	**3.14**	**1.77**
Total electricity and heat	418.38	491.32	653.18	860.85	790.98	808.00	794.04	3.78	1.16
Main activity producers	*418.37*	*491.31*	*646.88*	*845.37*	*784.47*	*803.15*	*789.42*	*3.70*	*1.18*
Autoproducers	*0.01*	*0.01*	*6.29*	*15.48*	*6.51*	*4.85*	*4.62*	*66.36*	*-1.80*
Patent fuel/BKB plants	-	-	-	-	119.79	94.20	127.67	-	-
Coke ovens	-	-	-	1.79	1.77	1.66	1.49	-	-
Blast furnace inputs	-	-	0.18	2.50	1.25	1.41	1.55	-	13.39
Gas manufacture	-	-	-	-	-	-	-	-	-
Industry sector	46.04	46.33	53.39	37.51	37.68	39.15	37.98	1.24	-1.98
Iron and steel	*3.73*	*2.53*	*1.70*	*1.35*	*0.27*	*0.41*	*0.41*	*-6.36*	*-8.03*
Chemical	*10.34*	*12.72*	*14.26*	*10.51*	*7.23*	*7.50*	*7.38*	*2.71*	*-3.80*
Non-metallic minerals	*11.88*	*11.62*	*12.65*	*13.26*	*12.74*	*13.08*	*13.36*	*0.53*	*0.32*
Paper, pulp and print	*7.82*	*8.27*	*11.37*	*4.10*	*6.84*	*7.25*	*7.05*	*3.17*	*-2.77*
Other industry	*12.27*	*11.19*	*13.42*	*8.29*	*10.60*	*10.91*	*9.78*	*0.75*	*-1.84*
Res, comm & pub serv[(1)]	8.58	5.40	6.03	3.70	3.60	2.64	2.79	-2.90	-4.43
Non-energy use	-	0.02	0.26	0.33	0.53	0.44	0.53	-	4.28
Coking coal	**79.71**	**72.75**	**43.20**	**31.36**	**25.86**	**26.29**	**26.97**	**-4.98**	**-2.73**
Total electricity and heat	-	-	-	-	-	-	-	-	-
Main activity producers	-	-	-	-	-	-	-	-	-
Autoproducers	-	-	-	-	-	-	-	-	-
Patent fuel/BKB plants	-	-	-	-	2.81	2.26	2.37	-	-
Coke ovens	75.71	71.75	43.16	31.13	23.41	23.73	23.56	-4.58	-3.50
Blast furnace inputs	-	-	-	-	-	-	-	-	-
Gas manufacture	-	-	-	-	-	-	-	-	-
Industry sector	-	-	-	-	-	-	-	-	-
Iron and steel	-	-	-	-	-	-	-	-	-
Chemical	-	-	-	-	-	-	-	-	-
Non-metallic minerals	-	-	-	-	-	-	-	-	-
Paper, pulp and print	-	-	-	-	-	-	-	-	-
Other industry	-	-	-	-	-	-	-	-	-
Res, comm & pub serv[(1)]	-	-	-	-	-	-	-	-	-
Non-energy use	-	-	-	-	-	-	-	-	-
Brown coal/lignite	**43.94**	**58.04**	**109.28**	**114.73**	**115.90**	**112.49**	**109.63**	**7.89**	**0.02**
Total electricity and heat	41.10	53.39	101.99	110.09	109.76	103.89	102.79	7.87	0.05
Main activity producers	*41.10*	*53.39*	*100.89*	*108.85*	*107.70*	*101.88*	*102.79*	*7.77*	*0.11*
Autoproducers	-	-	*1.10*	*1.25*	*2.06*	*2.01*	-	-	-
Patent fuel/BKB plants	-	-	-	-	-	-	-	-	-
Coke ovens	-	-	-	0.00	0.00	0.00	0.00	-	-
Gas manufacture	-	-	5.64	5.67	5.39	5.59	5.33	-	-0.32
Industry sector	2.47	3.05	1.41	1.59	0.39	0.39	0.42	-4.57	-6.87
Iron and steel	-	-	-	-	-	-	-	-	-
Chemical	-	*0.17*	*0.23*	*0.24*	*0.24*	*0.24*	*0.26*	-	*0.51*
Non-metallic minerals	-	-	*0.00*	*0.00*	*0.01*	*0.01*	*0.01*	-	*12.13*
Paper, pulp and print	*0.17*	*0.19*	*0.10*	*0.10*	*0.06*	*0.06*	*0.06*	*-4.60*	*-2.82*
Other industry	*2.31*	*2.69*	*1.08*	*1.25*	*0.08*	*0.09*	*0.09*	*-6.12*	*-13.43*
Res, comm & pub serv[(1)]	0.34	0.29	0.17	0.12	0.06	0.06	0.16	-5.64	-0.25
Non-energy use	-	-	0.09	0.14	0.16	0.16	0.16	-	3.59

Source: *IEA/OECD Energy Statistics of OECD Countries*

(1) Residential, commercial and public services.

* Please refer to notes in *Principles and Definitions*.

OECD North America

7. FUEL PRICES TO END USERS*

	1978[1]	1980	1990	2000	2004	2005	2006	2007	2008
				(US dollars / tce)					
For electricity generation									
Steam coal	..	..	..	..	..	..	..	..	..
Heavy fuel oil	..	..	..	..	..	..	..	..	..
Natural gas	..	..	..	..	..	..	..	..	..
For industry									
Steam coal	..	..	..	..	..	..	..	..	..
Coking coal	..	..	..	..	..	..	..	..	..
High sulphur fuel oil	..	..	..	..	..	..	..	..	..
Low sulphur fuel oil	..	..	..	..	..	..	..	..	..
Natural gas	..	..	..	..	..	..	..	..	..
				(US dollars / unit)[2]					
For electricity generation									
Steam coal	..	..	..	..	..	..	..	..	..
Heavy fuel oil	..	..	..	..	..	..	..	..	..
Natural gas	..	..	..	..	..	..	..	..	..
For industry									
Steam coal	..	..	..	..	..	..	..	..	..
Coking coal	..	..	..	..	..	..	..	..	..
High sulphur fuel oil	..	..	..	..	..	..	..	..	..
Low sulphur fuel oil	..	..	..	..	..	..	..	..	..
Natural gas	..	..	..	..	..	..	..	..	..

Source: *IEA/OECD Energy Prices & Taxes*

(1) Earliest year for which split by coal type is available.

(2) For steam coal, coking coal and heavy fuel oil per metric tonne; for natural gas per 10^7 kilocalories GCV.

* Please refer to notes in *Principles and Definitions*.

8. COAL TRADE BY TYPE OF COAL*

(Mtce)

	1973	1980	1990	2000	2004	2005	2006	2007	2008e
Total imports	**16.37**	**17.85**	**16.94**	**37.71**	**48.23**	**50.26**	**56.41**	**54.71**	**50.96**
Hard coal	14.97	16.93	15.86	30.53	37.70	42.73	48.69	48.17	40.41
Coking coal	*..*	*7.02*	*4.45*	*5.72*	*5.19*	*5.60*	*5.56*	*4.73*	*4.67*
Steam coal	*..*	*9.91*	*11.41*	*24.81*	*32.51*	*37.13*	*43.13*	*43.44*	*35.74*
Brown coal / lignite	-	-	-	2.80	3.96	4.10	3.04	3.40	5.87
Peat	-	-	-	-	-	-	-	-	-
Coal products[1]	1.40	0.93	1.08	4.38	6.57	3.44	4.68	3.15	4.68
Total exports	**55.24**	**97.96**	**126.22**	**79.87**	**61.60**	**65.56**	**65.58**	**74.56**	**95.88**
Hard coal	53.62	96.02	125.52	78.58	60.20	63.75	63.88	72.80	93.06
Coking coal	*..*	*71.71*	*84.69*	*54.27*	*42.74*	*46.70*	*44.44*	*49.02*	*58.28*
Steam coal	*..*	*24.31*	*40.83*	*24.31*	*17.46*	*17.05*	*19.44*	*23.78*	*34.78*
Brown coal / lignite	0.00	0.03	0.04	0.03	0.16	0.18	0.23	0.36	1.04
Peat	-	-	-	-	-	-	-	-	-
Coal products[1]	1.62	1.91	0.67	1.26	1.24	1.63	1.47	1.40	1.78

Source: *IEA/OECD Energy Balances of OECD Countries, IEA/OECD Energy Statistics of OECD Countries*

(1) Coal products includes products derived from coal, for example: coke, coal tar, briquettes, patent fuels.

* Please refer to notes in *Principles and Definitions*.

OECD North America

9. HARD COAL IMPORTS BY ORIGIN*

(thousand tonnes)

	1978[1]	1980	1990	2000	2004	2005	2006	2007	2008e
Hard Coal	**17499**	**17540**	**16846**	**32493**	**41524**	**48872**	**56181**	**55381**	**46240**
Coking Coal	**6024**	**7212**	**4719**	**5843**	**5416**	**5831**	**5786**	**4924**	**4866**
Australia	-	-	-	-	182	144	72	-	-
Canada	-	-	122	1511	1735	1458	1461	1469	1580
Czech Republic	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-
Poland	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-
United States	5924	7112	4497	4296	3429	4160	4133	3322	3286
Other OECD	-	-	-	-	-	-	-	46	-
China, People's Rep.	-	-	-	-	-	-	-	87	-
Colombia	-	-	-	-	-	9	7	-	-
Indonesia	-	-	-	-	-	-	-	-	-
South Africa	-	-	-	-	-	-	-	-	-
Former USSR[2]	-	-	-	-	-	-	-	-	-
Russia[3]	-	-	-	-	-	-	-	-	-
Other Former USSR[3]	-	-	-	-	*70*	-	-	-	-
Venezuela	-	-	-	36	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-
Non-specified/other	100	100	100	-	-	60	113	-	-
Steam coal	**11475**	**10328**	**12127**	**26650**	**36108**	**43041**	**50395**	**50457**	**41374**
Australia	933	-	22	1226	2141	5392	6529	4684	782
Canada	49	37	883	693	1797	823	799	488	463
Czech Republic	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-
Poland	645	287	-	-	68	70	-	-	-
United Kingdom	-	-	5	-	40	1	1	1	5
United States	8796	9245	9639	14787	8313	7339	8906	8378	7225
Other OECD	-	-	-	6	103	261	236	32	1
China, People's Rep.	-	-	-	174	152	72	57	48	42
Colombia	-	-	1296	6928	16013	21444	25303	25962	26099
Indonesia	-	-	-	651	1979	2239	2855	3323	3191
South Africa	996	699	-	61	31	70	256	-	1123
Former USSR[2]	-	-	-	-	-	-	-	-	-
Russia[3]	-	-	-	*92*	*275*	*686*	*1152*	*597*	*226*
Other Former USSR[3]	-	-	-	-	*225*	*141*	-	*98*	*53*
Venezuela	-	-	277	1960	4730	3951	4252	3731	2164
Vietnam	-	-	-	-	33	85	28	-	-
Non-specified/other	56	60	5	72	208	467	21	3115	-

Source: IEA/OECD Coal Statistics

(1) Earliest year for which split by coal type is available.

(2) If no detail.

(3) Data for former republics are not available separately for some OECD member countries.

* Please refer to notes in *Principles and Definitions*.

OECD North America

10. COKING COAL EXPORTS BY DESTINATION*

(thousand tonnes)

	1978[1]	1980	1990	2000	2004	2005	2006	2007	2008e
Total Exports	**40450**	**71373**	**84425**	**58166**	**48196**	**52711**	**50149**	**55166**	**65242**
Exports to:									
Total OECD	**36030**	**62263**	**67287**	**45136**	**36147**	**41133**	**38266**	**41635**	**47901**
Australia	-	-	-	-	-	-	-	-	-
Austria	-	-	-	-	-	239	30	125	294
Belgium	1103	2840	5538	2717	1309	1528	1596	1424	1650
Canada	5410	5694	3988	3501	3431	4034	4134	3299	3266
Czech Republic	-	-	-	-	-	-	-	-	-
Denmark	-	141	50	-	-	-	-	-	210
Finland	-	20	127	288	412	776	795	435	666
France	1468	4082	4880	2782	1388	1610	1652	2176	2453
Germany	560	1710	708	1211	2020	2230	2607	2789	2411
Greece	-	364	-	-	553	-	-	-	126
Hungary	-	-	-	65	-	-	70	-	175
Iceland	-	6	28	48	82	57	19	30	50
Ireland	-	198	-	-	-	-	-	-	68
Italy	3069	5594	6536	4467	2677	3672	4153	4202	3693
Japan	19925	30625	26588	12937	7759	8446	7523	8430	9876
Korea	1173	1994	2908	4947	3848	5497	4573	5228	6049
Luxembourg	-	-	-	-	-	-	-	-	-
Mexico	-	28	3	740	1253	994	612	546	1336
Netherlands	929	2390	3975	2143	2787	2355	2297	2895	3671
New Zealand	-	-	-	-	-	-	-	-	-
Norway	68	252	99	42	32	18	-	10	78
Poland	-	-	-	-	-	-	-	401	1552
Portugal	265	305	753	198	88	-	-	-	-
Slovak Republic	-	-	-	-	-	-	54	915	877
Spain	838	2171	3156	2331	1426	2029	1397	1563	1407
Sweden	453	1073	866	642	570	464	426	483	523
Switzerland	-	99	-	-	22	-	-	-	257
Turkey	409	796	1957	2403	2457	2667	2186	2263	2659
United Kingdom	360	1881	4355	3134	2298	2915	2681	2953	2987
United States	-	-	772	540	1735	1602	1461	1468	1567
Total Non-OECD	**4420**	**9026**	**11934**	**9805**	**11960**	**11578**	**11272**	**12991**	**16099**
Brazil	1942	3490	6327	5564	4545	4831	5519	7262	6903
Chinese Taipei	205	359	357	1440	1438	1274	1220	-	71
Egypt	218	749	586	682	1120	706	869	1453	1371
Hong Kong, China	-	-	-	-	-	-	-	-	-
India	200	263	-	22	813	1078	959	800	1439
Israel	-	-	50	56	-	-	-	-	-
Romania	673	853	1559	443	121	547	75	209	1588
Oth. Africa & Mid. East	1	642	614	269	381	377	382	500	648
Other Latin America	914	1603	872	496	622	575	739	640	838
Other Asia & Oceania	24	49	529	-	2333	1060	265	240	660
Other Europe and FSU	243	1018	1040	833	587	1130	1244	1887	2581
Non-Specified/Other	**-**	**84**	**5204**	**3225**	**89**	**-**	**611**	**540**	**1242**

Source: IEA/OECD Coal Statistics

(1) Earliest year for which split by coal type is available.

* Please refer to notes in *Principles and Definitions*.

OECD North America

11. STEAM COAL EXPORTS BY DESTINATION*

(thousand tonnes)

	1978[1]	1980	1990	2000	2004	2005	2006	2007	2008e
Total Exports	**10808**	**27123**	**42493**	**26926**	**20902**	**20452**	**22703**	**27917**	**39957**
Exports to:									
Total OECD	**10341**	**25340**	**35375**	**25401**	**18479**	**18050**	**20592**	**23497**	**35577**
Australia	-	-	1	-	-	-	-	-	-
Austria	-	-	-	-	-	-	-	75	-
Belgium	27	1383	2178	429	555	411	363	483	1144
Canada	8782	10136	10083	13524	12680	13625	13909	13386	17553
Czech Republic	-	-	-	-	-	-	-	-	-
Denmark	309	1608	3321	70	67	66	348	72	139
Finland	-	233	-	-	-	-	360	176	185
France	38	2984	1758	564	-	28	195	584	1263
Germany	528	1188	384	522	376	133	569	1009	1256
Greece	-	4	-	-	-	-	-	-	66
Hungary	-	-	-	-	-	-	-	-	-
Iceland	-	-	15	-	-	-	-	-	-
Ireland	-	159	1322	456	-	-	-	74	74
Italy	22	924	4451	79	122	23	-	135	287
Japan	243	1426	4007	4425	1640	962	1379	2099	2307
Korea	356	552	719	2275	665	749	918	980	2184
Luxembourg	-	-	-	-	-	-	-	-	-
Mexico	-	-	188	373	80	341	156	148	532
Netherlands	27	1834	3982	643	591	829	593	2278	3279
New Zealand	-	-	1	-	-	-	-	-	-
Norway	-	-	62	74	-	-	-	-	-
Poland	-	-	-	-	-	-	-	-	109
Portugal	-	24	1386	343	317	143	267	258	391
Slovak Republic	-	-	-	-	-	-	-	-	-
Spain	-	970	282	441	67	-	250	-	990
Sweden	-	39	21	-	-	71	-	-	144
Switzerland	-	-	-	-	-	-	-	-	149
Turkey	5	-	15	55	-	67	-	1	34
United Kingdom	-	1875	1005	1016	558	361	1052	1578	3352
United States	4	1	194	112	761	241	233	161	139
Total Non-OECD	**95**	**1699**	**5891**	**971**	**1770**	**2202**	**1814**	**4420**	**4183**
Brazil	11	98	177	22	883	693	176	95	401
Chinese Taipei	-	530	3820	-	1	1	3	2	-
Egypt	-	-	-	-	-	-	-	-	-
Hong Kong, China	-	-	108	1	-	-	-	-	-
India	-	-	-	-	224	217	71	1	72
Israel	-	-	530	-	-	-	-	172	328
Romania	-	413	-	-	135	844	927	1069	73
Oth. Africa & Mid. East	1	56	682	825	358	63	190	2212	1715
Other Latin America	82	575	522	49	140	269	367	789	893
Other Asia & Oceania	1	19	5	8	-	-	6	12	399
Other Europe and FSU	-	8	47	66	29	115	74	68	302
Non-Specified/Other	**372**	**84**	**1227**	**554**	**653**	**200**	**297**	**-**	**197**

Source: IEA/OECD Coal Statistics

(1) Earliest year for which split by coal type is available.

* Please refer to notes in *Principles and Definitions*.

OECD/IEA Pacific*

Chart 1: TPES by fuel (Mtce)

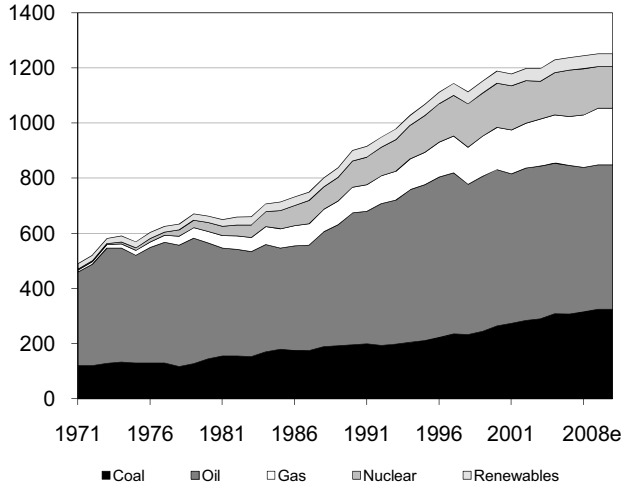


Chart 2: Coal supply indicators (1971 = 100)

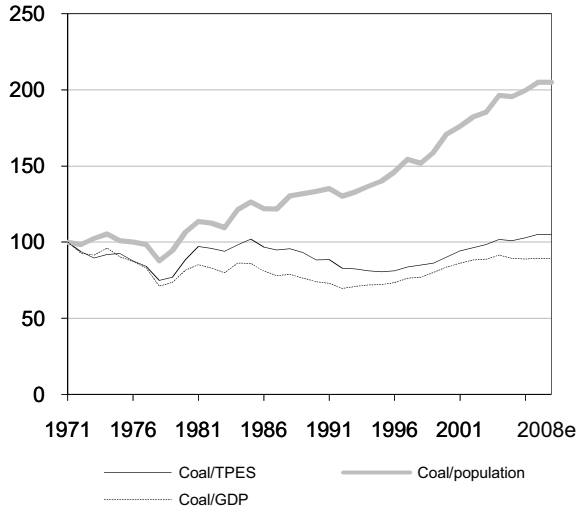


Chart 3: Primary coal supply (Mtce)

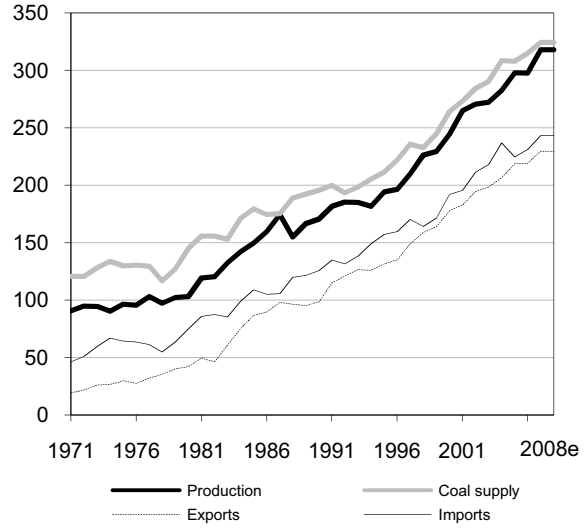


Chart 4: Coal consumption (Mtce)

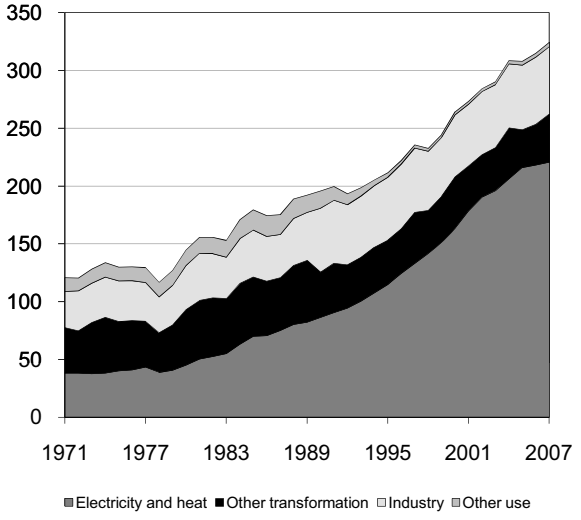


Chart 5: Electricity generation by fuel (TWh)

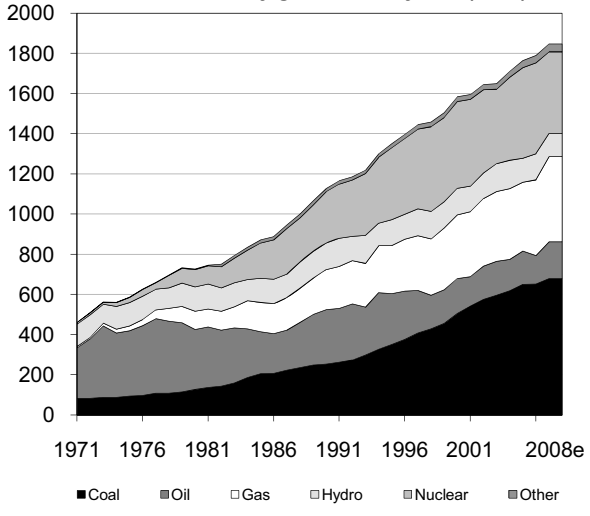
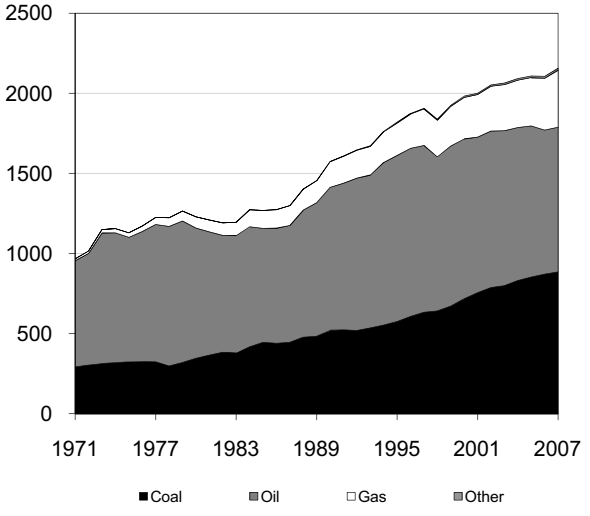


Chart 6: CO_2 emissions by fuel (Mt CO_2)



*Please refer to notes in *Principles and Definitions*. Peat is included in coal for all charts.

OECD/IEA Pacific

1. TOTAL PRIMARY ENERGY SUPPLY (TPES) BY FUEL*

	1973	1980	1990	2000	2006	2007	2008e	Average annual percent change 73-90	90-07
TPES (Mtce)	**581.41**	**663.32**	**901.01**	**1188.98**	**1244.84**	**1252.22**	**1235.05**	**2.61**	**1.96**
Coal and peat	128.34	144.83	195.80	264.37	315.16	324.52	336.74	2.52	3.02
Oil	418.56	420.59	478.38	567.58	524.51	524.83	494.47	0.79	0.55
Gas	12.48	42.36	93.67	152.83	189.80	204.57	206.39	12.59	4.70
Comb. renew/waste	5.04	5.90	14.60	18.75	22.37	23.54	22.42	6.46	2.85
Nuclear	3.61	32.04	94.99	160.46	168.34	151.44	151.65	21.20	2.78
Hydro	11.52	15.01	16.36	16.27	15.98	14.20	13.72	2.08	-0.83
Geothermal	1.86	2.56	5.41	7.35	7.12	7.25	7.65	6.49	1.73
Solar, wind, tide	-	0.03	1.80	1.37	1.50	1.84	1.98	-	0.14
Net electricity trade[1]	-	-	-	-	-	-	-	-	-
Heat[2]	-	-	-	-	0.04	0.04	0.03	-	-

Source: *IEA/OECD Energy Balances of OECD Countries*

(1) Net trade between OECD and non-OECD countries.

(2) Ambient heat from heat pumps used in the transformation sector.

2. ENERGY SUPPLY, GDP AND POPULATION*

	1973	1980	1990	2000	2006	2007	2008e	Average annual percent change 73-90	90-07
GDP (2000 bil. US$)	2503	3166	4727	5631	6322	6485	6474	3.81	1.88
TPES/GDP[1]	0.23	0.21	0.19	0.21	0.20	0.19	0.19	-1.15	0.08
Population (millions)	159.4	172.9	186.9	197.0	201.0	201.5	201.5	0.94	0.45
TPES/population[1]	3.65	3.84	4.82	6.04	6.19	6.21	6.13	1.65	1.50
TPES/GDP[2]	110.0	99.2	90.3	100.0	93.3	91.5	90.4	-1.15	0.08
Coal and peat supply/GDP[2]	109.2	97.4	88.2	100.0	106.2	106.6	110.8	-1.25	1.12
Elec. consumption/GDP[2]	79.0	81.2	84.4	100.0	101.0	101.6	..	0.39	1.09
Elec. generation (TWh)	563	728	1128	1584	1790	1848	1828	4.17	2.95
Industrial production[2]	..	..	..	..	..	..	..	-	-

Source: *IEA/OECD Energy Balances of OECD Countries* , *OECD Main Economic Indicators*

(1) TPES/GDP in units of tce/2000 thousand US$, TPES/population in units of tce/capita.

(2) As index, 2000 = 100

3. COAL AND PEAT PRODUCTION BY TYPE*

	1978[1]	1980	1990	2000	2006	2007	2008e	Average annual percent change 78-90	90-07
Mtce:									
Coking coal	44.87	45.94	63.05	102.61	123.41	139.91	138.66	2.87	4.80
Steam coal	42.82	46.11	92.94	119.50	149.30	154.45	156.87	6.67	3.03
Brown coal	9.73	11.01	14.69	22.18	24.79	23.57	25.99	3.49	2.82
Peat	-	-	-	-	-	-	-	-	-
Mt:									
Coking coal	46.34	47.20	65.21	105.39	126.76	143.77	142.46	2.89	4.76
Steam coal	60.93	62.99	120.98	144.79	181.30	187.46	190.37	5.88	2.61
Brown coal	30.66	33.13	46.15	67.51	67.99	65.87	72.65	3.47	2.12
Peat	-	-	-	-	-	-	-	-	-

Source: *IEA/OECD Energy Balances of OECD Countries, IEA/OECD Energy Statistics of OECD Countries*

(1) Earliest year for which split by coal type is available.

* Please refer to notes in *Principles and Definitions* .

OECD/IEA Pacific

4. FINAL CONSUMPTION OF ENERGY BY FUEL*

(Mtce)

								Average annual percent change	
	1973	**1980**	**1990**	**2000**	**2005**	**2006**	**2007**	**73-90**	**90-07**
TFC[1]	**424.17**	**452.67**	**615.39**	**794.59**	**820.56**	**819.49**	**824.09**	**2.21**	**1.73**
Coal and peat	46.37	51.59	70.29	56.29	59.16	61.54	61.93	2.48	-0.74
Oil	298.16	294.04	372.28	475.07	460.39	449.90	442.40	1.31	1.02
Gas	13.62	22.03	37.18	69.38	84.92	89.12	93.45	6.08	5.57
Comb. renew/wastes	4.99	5.63	10.08	12.82	13.24	13.44	14.24	4.22	2.05
Geothermal	-	-	0.50	0.64	0.64	0.63	0.64	-	1.46
Solar, wind, tide	-	0.03	1.80	1.33	0.96	0.91	1.03	-	-3.25
Electricity	60.98	79.21	122.98	173.59	193.97	196.82	203.03	4.21	2.99
Heat	0.04	0.15	0.29	5.47	7.28	7.12	7.38	12.32	21.09
of which:									
Total industry	**183.62**	**173.62**	**206.40**	**233.97**	**235.43**	**240.95**	**243.50**	**0.69**	**0.98**
Coal and peat	34.18	38.14	55.53	53.76	55.98	58.10	58.11	2.89	0.27
Oil	101.61	74.98	72.44	71.05	60.96	61.47	58.79	-1.97	-1.22
Gas	5.27	9.33	14.25	22.37	28.25	29.56	31.52	6.02	4.78
Comb. renew/wastes	2.13	3.17	6.68	9.47	10.37	10.67	10.97	6.95	2.96
Geothermal	-	-	0.31	0.19	0.20	0.20	0.20	-	-2.63
Solar, wind, tide	-	-	-	-	0.00	0.00	0.00	-	-
Electricity	40.43	48.00	57.19	74.10	75.62	76.87	79.62	2.06	1.97
Heat	-	-	-	3.04	4.06	4.08	4.28	-	-
Total transport	**83.03**	**111.24**	**157.71**	**210.36**	**209.44**	**207.43**	**206.75**	**3.85**	**1.61**
Coal and peat	0.33	0.01	0.10	0.13	0.13	0.11	0.12	-6.65	0.97
Oil	80.97	109.19	155.10	206.92	205.28	203.00	201.96	3.90	1.57
Gas	-	0.01	0.10	0.44	0.97	1.19	1.41	-	17.17
Comb. renew/wastes	-	-	-	-	0.03	0.14	0.26	-	-
Electricity	1.73	2.03	2.42	2.87	3.02	2.98	2.99	2.00	1.25
Residential	**47.24**	**60.07**	**85.06**	**105.87**	**114.37**	**112.15**	**113.42**	**3.52**	**1.71**
Coal and peat	11.54	12.92	12.50	0.84	1.40	1.60	1.45	0.47	-11.89
Oil	13.84	15.69	22.55	29.80	27.70	26.23	25.38	2.91	0.70
Gas	5.87	9.54	14.04	25.63	29.78	29.35	29.35	5.26	4.43
Comb. renew/wastes	2.86	2.43	3.32	3.10	2.43	2.14	2.49	0.90	-1.69
Geothermal	-	-	0.08	0.00	0.00	0.00	0.00	-	-16.63
Solar, wind, tide	-	0.03	1.73	1.29	0.92	0.87	0.87	-	-3.99
Electricity	13.13	19.46	30.80	43.62	50.03	49.96	51.85	5.14	3.11
Heat	-	-	0.04	1.57	2.12	2.00	2.03	-	25.32
Comm & public services	**32.48**	**37.14**	**84.24**	**121.67**	**134.11**	**131.03**	**128.23**	**5.77**	**2.50**
Coal and peat	0.27	0.52	1.54	1.04	1.11	1.10	1.09	10.75	-2.04
Oil	24.66	24.45	43.46	50.41	43.72	35.80	29.17	3.39	-2.32
Gas	2.14	2.68	6.97	17.13	23.67	26.81	28.90	7.21	8.72
Comb. renew/waste	-	0.03	0.08	0.24	0.41	0.49	0.51	-	11.97
Geothermal	-	-	0.06	0.31	0.31	0.31	0.31	-	9.78
Solar, wind, tide	-	-	0.07	0.04	0.04	0.04	0.16	-	5.04
Electricity	5.38	9.32	31.82	51.63	63.75	65.45	67.01	11.02	4.48
Heat	0.04	0.15	0.24	0.87	1.10	1.04	1.07	11.22	9.14
Non-energy use	**58.27**	**49.41**	**65.82**	**104.84**	**110.82**	**112.35**	**116.70**	**0.72**	**3.43**
Coal and peat	-	-	0.57	0.50	0.51	0.57	1.11	-	3.98
Oil	58.02	48.96	63.42	100.57	108.16	109.67	113.42	0.53	3.48
Gas	0.26	0.45	1.82	3.78	2.16	2.11	2.17	12.23	1.02

Source: *IEA/OECD Energy Balances of OECD Countries*

(1) Total Final Consumption (TFC) excludes use in transformation and energy sectors.

* Please refer to notes in *Principles and Definitions*.

OECD/IEA Pacific

5. COAL BALANCE*

(Mtce)

	1973	1980	1990	2000	2006	2007	2008e	Average annual percent change 73-90	90-07
Production	94.4	103.1	170.7	244.3	297.5	317.9	321.5	3.5	3.7
Imports	59.6	74.9	125.6	192.1	231.0	243.3	251.2	4.5	4.0
Exports	-26.0	-41.9	-98.2	-177.6	-218.9	-229.5	-237.8	8.1	5.1
Stock changes	0.3	8.7	-2.2	5.6	5.6	-7.2	1.7	x	x
Primary supply	**128.3**	**144.8**	**195.8**	**264.4**	**315.2**	**324.5**	**336.7**	**2.5**	**3.0**
Statistical difference	**-2.5**	**-2.3**	**3.8**	**-2.0**	**6.2**	**1.9**	**..**	**x**	**x**
Total transformation	**-75.5**	**-86.2**	**-123.3**	**-199.4**	**-254.9**	**-257.6**	**..**	**2.9**	**4.4**
Electricity and heat gen.	-37.8	-45.2	-86.4	-163.6	-218.3	-220.9	..	5.0	5.7
Main activity producers (1)	*-37.8*	*-40.9*	*-75.3*	*-147.1*	*-199.8*	*-201.9*	*..*	*4.1*	*6.0*
Autoproducers	*-0.1*	*-4.3*	*-11.1*	*-16.6*	*-18.5*	*-19.0*	*..*	*36.2*	*3.2*
Gas works	-3.1	-1.8	-0.6	-0.3	-	-	..	-9.3	-
Coal transformation(2)	-34.7	-39.1	-36.3	-35.4	-36.5	-36.8	..	0.3	0.1
BKB plants	*-0.2*	*-0.2*	*-0.1*	*-0.0*	*-0.2*	*-0.2*	*..*	*-5.3*	*6.1*
Blast furnaces	*-27.1*	*-23.8*	*-28.4*	*-33.4*	*-32.2*	*-33.3*	*..*	*0.3*	*0.9*
Coke ovens	*-5.8*	*-14.5*	*-3.0*	*-1.8*	*-3.8*	*-2.8*	*..*	*-3.7*	*-0.6*
Patent fuel plants	*-1.5*	*-0.6*	*-4.8*	*-0.2*	*-0.3*	*-0.5*	*..*	*6.9*	*-12.7*
Other transformation(3)	-	-	-	-	-	-	..	-	-
Own use	**-3.9**	**-4.7**	**-6.0**	**-6.7**	**-5.0**	**-6.9**	**..**	**2.6**	**0.8**
Distribution losses	**-**	**-0.0**	**-**	**-**	**-**	**-**	**..**	**x**	**x**
Final consumption(4)	**46.4**	**51.6**	**70.3**	**56.3**	**61.5**	**61.9**	**..**	**2.5**	**-0.7**
Industry sector(5)	34.2	38.1	55.5	53.8	58.1	58.1	..	2.9	0.3
Iron and steel	*26.9*	*27.3*	*21.5*	*20.2*	*23.9*	*23.6*	*..*	*-1.3*	*0.6*
Chemical	*0.4*	*0.7*	*4.2*	*4.3*	*4.7*	*4.9*	*..*	*15.0*	*0.9*
Non-metallic minerals	*0.9*	*5.9*	*11.9*	*12.0*	*11.3*	*11.2*	*..*	*16.4*	*-0.3*
Paper, pulp and print	*0.3*	*0.5*	*1.9*	*2.3*	*2.3*	*2.4*	*..*	*10.8*	*1.2*
Transport sector(6)	0.3	0.0	0.1	0.1	0.1	0.1	..	-6.7	1.0
Other sectors(7)	11.9	13.4	14.1	1.9	2.8	2.6	..	1.0	-9.5
Comm. and pub. services	*0.3*	*0.5*	*1.5*	*1.0*	*1.1*	*1.1*	*..*	*10.7*	*-2.0*
Residential	*11.5*	*12.9*	*12.5*	*0.8*	*1.6*	*1.5*	*..*	*0.5*	*-11.9*
Non-energy use	-	-	0.6	0.5	0.6	1.1	..	-	4.0

Source: *IEA/OECD Energy Balances of OECD Countries*

(1) Main activity electricity and heat generation includes district heating.

(2) Coal transformation refers to the transformation of coal and peat to secondary and tertiary products (mainly coke, briquettes, coke oven gas and blast furnace gas).

(3) Other transformation includes liquefaction and non-specified transformation.

(4) Final Consumption includes non-energy use and energy use (industry, transport and other sectors).

(5) Please refer to notes in *Principles and Definitions* for detailed explanation.

(6) Transport sector includes rail and inland waterways.

(7) Other sectors includes commercial and public services, agriculture, and residential.

* "Coal" refers to all types of coal, primary (anthracite, coking coal, other bituminous coal, sub-bituminous coal, lignite/brown coal, peat) and derived fuels (including patent fuel, BKB/peat briquettes, coke oven coke, gas coke, coal tar, coke oven gas, gas works gas, blast furnace gas and oxygen steel furnace gas). Quantities have been converted to Mtce using calorific values reported by the respective countries. Please refer to notes in *Principles and Definitions*.

OECD/IEA Pacific

6. USE OF COAL FOR SELECTED END-USES*

(million tonnes)

	1978	1980	1990	2000	2005	2006	2007	Average annual percent change 78-90	90-07
Steam coal	**57.24**	**70.43**	**128.22**	**201.05**	**253.27**	**258.22**	**269.93**	**6.95**	**4.48**
Total electricity and heat	30.57	35.63	77.22	152.59	210.04	210.92	219.39	8.03	6.33
Main activity producers	*30.21*	*34.16*	*72.22*	*144.86*	*198.76*	*199.69*	*207.65*	*7.53*	*6.41*
Autoproducers	*0.36*	*1.48*	*5.00*	*7.73*	*11.29*	*11.22*	*11.74*	*24.52*	*5.15*
Patent fuel/BKB plants	18.64	20.40	20.81	1.22	2.01	2.33	2.09	0.92	-12.64
Coke ovens	0.13	0.04	5.89	11.46	11.65	11.62	12.57	37.67	4.56
Blast furnace inputs	-	-	0.64	0.67	0.80	0.81	0.79	-	1.21
Gas manufacture	0.19	0.12	-	-	-	-	-	-	-
Industry sector	7.37	12.54	25.05	31.09	28.93	29.28	30.69	10.74	1.20
Iron and steel	*1.46*	*1.52*	*2.05*	*2.69*	*4.74*	*4.75*	*5.40*	*2.86*	*5.88*
Chemical	*0.34*	*0.26*	*2.63*	*3.92*	*4.11*	*4.42*	*4.57*	*18.50*	*3.31*
Non-metallic minerals	*1.88*	*7.43*	*12.63*	*13.30*	*12.37*	*12.27*	*12.48*	*17.23*	*-0.07*
Paper, pulp and print	*0.35*	*0.45*	*2.25*	*2.64*	*2.90*	*2.86*	*2.93*	*16.65*	*1.58*
Other industry	*3.34*	*2.88*	*5.50*	*8.54*	*4.82*	*4.99*	*5.31*	*4.25*	*-0.21*
Res, comm & pub serv[(1)]	1.49	1.30	0.97	1.09	1.14	1.12	1.10	-3.50	0.74
Non-energy use	-	-	0.02	-	-	-	-	-	-
Coking coal	**67.95**	**81.25**	**82.82**	**81.30**	**82.77**	**83.08**	**84.65**	**1.66**	**0.13**
Total electricity and heat	-	-	-	-	-	-	-	-	-
Main activity producers	-	-	-	-	-	-	-	-	-
Autoproducers	-	-	-	-	-	-	-	-	-
Patent fuel/BKB plants	-	-	-	-	-	-	-	-	-
Coke ovens	64.35	76.69	77.00	67.15	68.56	68.02	67.34	1.51	-0.78
Blast furnace inputs	-	-	5.25	13.97	15.92	16.27	17.88	-	7.47
Gas manufacture	4.45	4.30	-	-	-	-	-	-	-
Industry sector	0.12	0.01	0.16	-	-	0.25	-	2.66	-
Iron and steel	*0.06*	-	-	-	-	*0.25*	-	-	-
Chemical	*0.01*	*0.01*	-	-	-	-	-	-	-
Non-metallic minerals	-	-	-	-	-	-	-	-	-
Paper, pulp and print	-	-	-	-	-	-	-	-	-
Other industry	*0.04*	-	*0.16*	-	-	-	-	*11.30*	-
Res, comm & pub serv[(1)]	0.01	0.01	0.02	-	-	-	-	13.14	-
Non-energy use	-	-	-	-	-	-	-	-	-
Brown coal/lignite	**30.64**	**33.13**	**46.20**	**67.55**	**67.43**	**68.02**	**65.90**	**3.48**	**2.11**
Total electricity and heat	27.32	29.23	44.14	66.34	66.29	67.09	65.55	4.08	2.35
Main activity producers	*26.32*	*28.00*	*43.07*	*65.25*	*66.29*	*67.09*	*65.55*	*4.19*	*2.50*
Autoproducers	*0.99*	*1.23*	*1.07*	*1.09*	-	-	-	*0.62*	-
Patent fuel/BKB plants	2.85	3.35	1.78	0.96	0.90	0.69	0.62	-3.84	-6.02
Coke ovens	-	-	-	-	-	-	-	-	-
Gas manufacture	-	-	-	-	-	-	-	-	-
Industry sector	0.42	0.42	0.20	0.18	0.22	0.22	0.23	-6.07	0.93
Iron and steel	-	-	-	-	-	-	-	-	-
Chemical	*0.03*	*0.02*	*0.03*	-	-	-	-	*-1.23*	-
Non-metallic minerals	*0.00*	*0.01*	*0.00*	-	*0.00*	*0.00*	*0.00*	*-3.32*	-
Paper, pulp and print	*0.30*	*0.30*	-	-	-	-	-	-	-
Other industry	*0.10*	*0.09*	*0.17*	*0.18*	*0.22*	*0.22*	*0.23*	*5.12*	*1.74*
Res, comm & pub serv[(1)]	0.05	0.11	0.08	0.08	0.06	0.06	0.05	3.49	-2.39
Non-energy use	-	-	-	-	-	-	-	-	-

Source: *IEA/OECD Energy Statistics of OECD Countries*

(1) Residential, commercial and public services.

* Please refer to notes in *Principles and Definitions*.

OECD/IEA Pacific

7. FUEL PRICES TO END USERS*

	1978[1]	1980	1990	2000	2004	2005	2006	2007	2008
				(US dollars / tce)					
For electricity generation									
Steam coal	..	..	..	..	..	..	..	..	..
Heavy fuel oil	..	..	..	..	..	..	..	..	..
Natural gas	..	..	..	..	..	..	..	..	..
For industry									
Steam coal	..	..	..	..	..	..	..	..	..
Coking coal	..	..	..	..	..	..	..	..	..
High sulphur fuel oil	..	..	..	..	..	..	..	..	..
Low sulphur fuel oil	..	..	..	..	..	..	..	..	..
Natural gas	..	..	..	..	..	..	..	..	..
				(US dollars / unit)[2]					
For electricity generation									
Steam coal	..	..	..	..	..	..	..	..	..
Heavy fuel oil	..	..	..	..	..	..	..	..	..
Natural gas	..	..	..	..	..	..	..	..	..
For industry									
Steam coal	..	..	..	..	..	..	..	..	..
Coking coal	..	..	..	..	..	..	..	..	..
High sulphur fuel oil	..	..	..	..	..	..	..	..	..
Low sulphur fuel oil	..	..	..	..	..	..	..	..	..
Natural gas	..	..	..	..	..	..	..	..	..

Source: *IEA/OECD Energy Prices & Taxes*

(1) Earliest year for which split by coal type is available.

(2) For steam coal, coking coal and heavy fuel oil per metric tonne; for natural gas per 10^7 kilocalories GCV.

* Please refer to notes in *Principles and Definitions*.

8. COAL TRADE BY TYPE OF COAL*

(Mtce)

	1973	1980	1990	2000	2004	2005	2006	2007	2008e
Total imports	**59.64**	**74.95**	**125.60**	**192.06**	**236.80**	**224.71**	**230.99**	**243.30**	**251.24**
Hard coal	59.61	74.83	125.10	189.59	233.13	221.76	228.75	240.67	249.14
Coking coal	*..*	*69.12*	*78.26*	*72.40*	*78.13*	*72.90*	*73.47*	*76.77*	*77.48*
Steam coal	*..*	*5.71*	*46.84*	*117.19*	*155.00*	*148.86*	*155.28*	*163.90*	*171.66*
Brown coal / lignite	-	-	-	-	-	-	-	0.00	0.00
Peat	-	-	-	-	-	-	-	-	-
Coal products[1]	0.04	0.12	0.50	2.47	3.67	2.95	2.24	2.63	2.10
Total exports	**26.00**	**41.86**	**98.23**	**177.60**	**206.34**	**218.71**	**218.93**	**229.55**	**237.76**
Hard coal	25.38	39.73	95.87	175.05	204.13	217.12	217.06	228.23	236.86
Coking coal	*..*	*32.25*	*55.90*	*98.03*	*109.73*	*122.89*	*118.82*	*129.62*	*135.78*
Steam coal	*..*	*7.47*	*39.96*	*77.02*	*94.40*	*94.23*	*98.24*	*98.62*	*101.08*
Brown coal / lignite	-	-	-	-	-	-	-	-	-
Peat	-	-	-	-	-	-	-	-	-
Coal products[1]	0.61	2.13	2.36	2.55	2.21	1.60	1.87	1.32	0.90

Source: *IEA/OECD Energy Balances of OECD Countries, IEA/OECD Energy Statistics of OECD Countries*

(1) Coal products includes products derived from coal, for example: coke, coal tar, briquettes, patent fuels.

* Please refer to notes in *Principles and Definitions*.

OECD/IEA Pacific

9. HARD COAL IMPORTS BY ORIGIN*

(thousand tonnes)

	1978[1]	1980	1990	2000	2004	2005	2006	2007	2008e
Hard Coal	**55041**	**73604**	**130654**	**214064**	**260643**	**254819**	**260043**	**276001**	**285759**
Coking Coal	**52885**	**66214**	**76229**	**76656**	**82692**	**77157**	**77753**	**80739**	**81457**
Australia	25299	28194	39565	45398	47885	45338	46606	50896	44604
Canada	11304	11587	13316	9389	6248	6818	6995	8637	10527
Czech Republic	-	-	-	-	-	-	-	-	-
Germany	398	-	-	-	-	-	-	-	-
Poland	429	387	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	5	-	-	-	-
United States	10406	20296	10275	2841	2179	1348	200	253	2253
Other OECD	11	70	225	367	319	253	329	138	418
China, People's Rep.	420	979	2802	9555	12665	9832	8903	5810	3956
Colombia	-	-	153	-	12	-	9	9	20
Indonesia	-	-	668	5886	9201	9850	10622	10659	17211
South Africa	2360	2803	3055	603	23	25	25	134	-
Former USSR[2]	2244	1898	-	-	-	-	-	-	-
Russia[3]	-	-	*6150*	*2498*	*4140*	*3668*	*4038*	*4203*	*2346*
Other Former USSR[3]	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	27	-	-	-	-	-
Non-specified/other	14	-	20	92	15	25	26	-	122
Steam coal	**2156**	**7390**	**54425**	**137408**	**177951**	**177662**	**182290**	**195262**	**204302**
Australia	668	4262	24852	67166	84335	87988	88179	92845	113697
Canada	105	367	8170	9944	4106	5073	6632	8684	4121
Czech Republic	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-
Poland	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	9	-	-	-	-
United States	1	616	5751	2396	3615	1270	698	73	304
Other OECD	-	-	138	637	779	568	663	298	-
China, People's Rep.	513	1086	3504	32680	39393	33062	29304	27690	28189
Colombia	-	-	94	-	23	-	18	19	-
Indonesia	-	9	806	14185	31646	36413	43227	48616	37704
South Africa	157	386	7057	3448	43	51	51	584	797
Former USSR[2]	149	233	-	-	-	-	-	-	-
Russia[3]	-	-	*3402*	*5497*	*10450*	*10309*	*10429*	*13393*	*15986*
Other Former USSR[3]	-	-	-	-	-	*21*	-	-	-
Venezuela	-	-	-	-	-	15	-	-	-
Vietnam	-	-	150	1012	3237	2401	2886	3025	2745
Non-specified/other	563	431	501	443	315	491	203	35	759

Source: IEA/OECD Coal Statistics

(1) Earliest year for which split by coal type is available.

(2) If no detail.

(3) Data for former republics are not available separately for some OECD member countries.

* Please refer to notes in *Principles and Definitions*.

OECD/IEA Pacific

10. COKING COAL EXPORTS BY DESTINATION*

(thousand tonnes)

	1978[1]	1980	1990	2000	2004	2005	2006	2007	2008e
Total Exports	**31085**	**33590**	**58086**	**100690**	**112723**	**126227**	**122032**	**133178**	**139485**
Exports to:									
Total OECD	**29156**	**31917**	**44087**	**74135**	**74820**	**83423**	**78994**	**79781**	**85364**
Australia	-	-	-	122	-	-	-	-	-
Austria	-	-	-	-	-	-	-	-	-
Belgium	374	175	1054	1833	1255	1881	1994	1923	2927
Canada	-	-	30	-	-	-	-	-	-
Czech Republic	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	324	392	377	284	304
France	1173	903	1917	3739	4016	3895	3329	3444	3056
Germany	-	-	25	2619	1576	1746	1843	-	1618
Greece	191	48	-	-	-	-	-	-	150
Hungary	-	-	-	-	-	-	-	-	-
Iceland	-	-	-	-	-	-	-	-	-
Ireland	-	-	-	-	-	14	-	-	-
Italy	1319	1164	1181	2914	1930	2527	2260	2287	2255
Japan	22651	25649	28822	39861	42136	45707	45165	49120	50203
Korea	1330	2266	4944	10358	10138	12434	7704	6254	8356
Luxembourg	-	-	-	-	-	-	-	-	-
Mexico	10	-	-	666	451	588	1513	1019	857
Netherlands	992	329	725	2279	4670	5617	7009	7139	6242
New Zealand	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-
Poland	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-
Slovak Republic	-	-	-	-	-	-	-	-	-
Spain	593	698	694	1767	2198	2090	1570	1735	2464
Sweden	-	-	702	992	1207	1226	1170	1258	1302
Switzerland	-	-	-	46	-	-	-	-	-
Turkey	-	-	912	1451	682	720	1098	1563	1845
United Kingdom	469	685	3081	5488	4063	4451	3925	3755	3785
United States	54	-	-	-	174	135	37	-	-
Total Non-OECD	**1929**	**1667**	**13999**	**26345**	**31731**	**38674**	**34194**	**42745**	**40652**
Brazil	164	-	1291	4988	4234	3545	3699	3608	3866
Chinese Taipei	981	837	2798	6273	5311	7091	7717	8036	6392
Egypt	-	157	323	-	-	353	225	498	366
Hong Kong, China	-	-	-	-	-	-	-	-	-
India	32	227	4895	10773	13491	17193	16122	19534	24229
Israel	-	-	-	-	-	129	194	273	281
Romania	675	267	2256	-	190	46	71	334	410
Oth. Africa & Mid. East	-	-	454	1554	2354	2807	499	2289	2016
Other Latin America	32	60	500	1371	1428	1806	1774	2052	1057
Other Asia & Oceania	45	119	1294	1316	4114	5301	3672	3819	2035
Other Europe and FSU	-	-	188	70	609	403	221	2302	-
Non-Specified/Other	**-**	**6**	**-**	**210**	**6172**	**4130**	**8844**	**10652**	**13469**

Source: IEA/OECD Coal Statistics

(1) Earliest year for which split by coal type is available.

* Please refer to notes in *Principles and Definitions*.

OECD/IEA Pacific

11. STEAM COAL EXPORTS BY DESTINATION*

(thousand tonnes)

	1978[1]	1980	1990	2000	2004	2005	2006	2007	2008e
Total Exports	**5533**	**8925**	**45647**	**87804**	**107613**	**107418**	**111986**	**112428**	**115265**
Exports to:									
Total OECD	**4809**	**6834**	**37656**	**66577**	**86230**	**83883**	**87658**	**83378**	**88785**
Australia	-	-	-	-	-	-	-	-	-
Austria	-	-	-	-	-	-	-	-	-
Belgium	-	103	129	428	3	17	-	54	41
Canada	-	-	-	-	-	-	-	-	-
Czech Republic	-	-	-	-	-	-	-	-	-
Denmark	150	304	1149	142	785	-	278	160	-
Finland	-	-	-	-	-	-	-	-	-
France	682	525	934	434	668	469	741	1202	684
Germany	458	686	125	72	258	115	-	129	-
Greece	-	-	-	110	-	-	-	-	-
Hungary	-	-	-	-	-	-	-	-	-
Iceland	-	-	-	-	-	-	-	-	-
Ireland	-	-	133	284	977	568	-	254	527
Italy	-	-	-	428	509	141	-	-	-
Japan	1489	3581	26569	47449	59036	57574	59599	58813	66959
Korea	-	11	3633	11455	16221	17970	20239	15061	18552
Luxembourg	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	2287	4238	4762	5069	818
Netherlands	320	353	4236	2550	1590	760	301	797	187
New Zealand	-	-	-	16	106	56	82	85	80
Norway	-	-	-	-	-	-	-	-	-
Poland	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	248	-	-	-	-
Slovak Republic	-	-	-	-	-	-	-	-	-
Spain	-	-	205	1445	1390	671	1069	986	545
Sweden	-	-	155	83	119	164	69	101	253
Switzerland	-	-	29	-	-	-	-	-	-
Turkey	-	-	-	55	48	45	-	-	-
United Kingdom	932	1211	328	1499	1879	993	425	600	71
United States	778	60	31	127	106	102	93	67	68
Total Non-OECD	**204**	**1187**	**7991**	**21227**	**21349**	**23535**	**24328**	**29050**	**26480**
Brazil	-	-	158	-	-	33	55	111	29
Chinese Taipei	76	991	3046	10034	9894	14329	13205	16233	18559
Egypt	-	-	-	-	-	-	-	-	-
Hong Kong, China	-	-	2443	419	1202	374	77	14	-
India	-	-	47	2469	1835	1461	1495	744	661
Israel	-	-	528	2623	1716	1165	320	507	177
Romania	-	49	33	-	-	-	-	82	-
Oth. Africa & Mid. East	-	-	-	-	-	-	-	-	-
Other Latin America	-	-	120	1373	1218	412	826	671	420
Other Asia & Oceania	128	147	1616	4309	5353	5761	8350	10688	6634
Other Europe and FSU	-	-	-	-	131	-	-	-	-
Non-Specified/Other	**520**	**904**	**-**	**-**	**34**	**-**	**-**	**-**	**-**

Source: IEA/OECD Coal Statistics

(1) Earliest year for which split by coal type is available.

* Please refer to notes in *Principles and Definitions*.

OECD Europe*

Chart 1: TPES by fuel (Mtce)

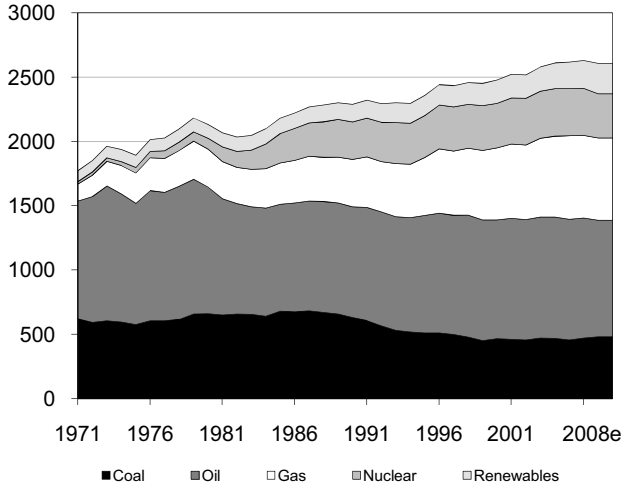


Chart 2: Coal supply indicators (1971 = 100)

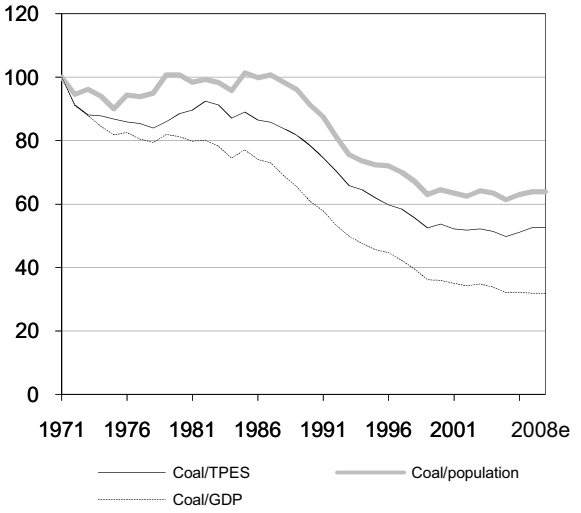


Chart 3: Primary coal supply (Mtce)

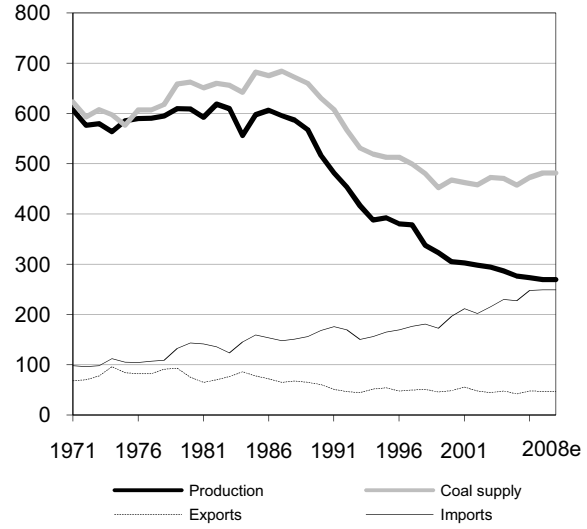


Chart 4: Coal consumption (Mtce)

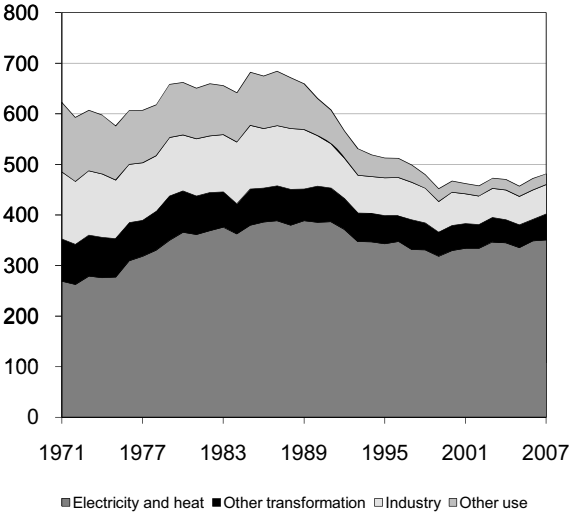


Chart 5: Electricity generation by fuel (TWh)

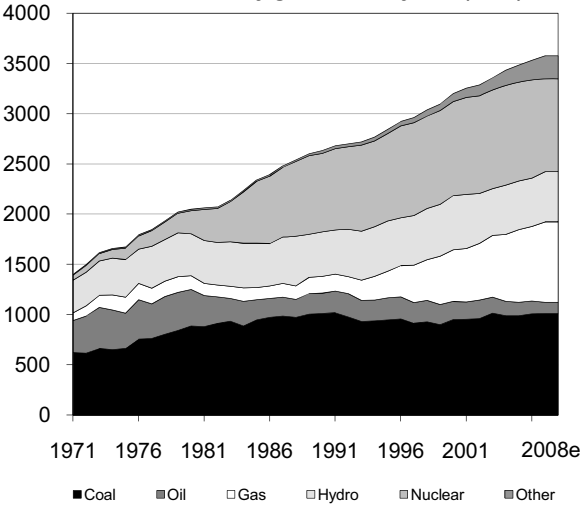
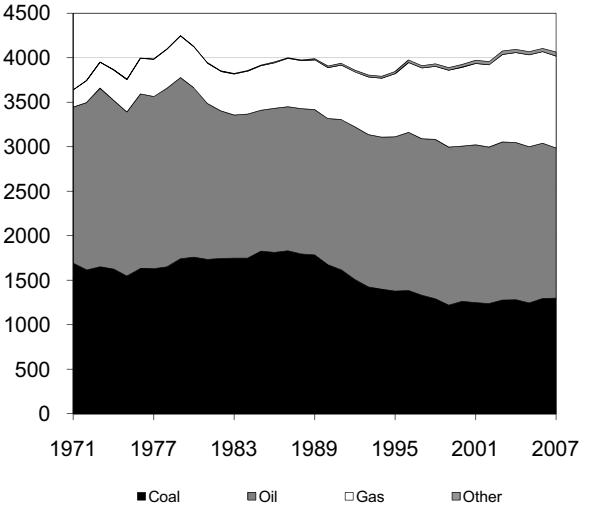


Chart 6: CO_2 emissions by fuel (Mt CO_2)



*Please refer to notes in *Principles and Definitions* . Peat is included in coal for all charts.

OECD Europe

1. TOTAL PRIMARY ENERGY SUPPLY (TPES) BY FUEL*

	1973	1980	1990	2000	2006	2007	2008e	Average annual percent change 73-90	90-07
TPES (Mtce)	**1964.97**	**2134.62**	**2292.14**	**2479.40**	**2633.29**	**2610.00**	**2597.80**	**0.91**	**0.77**
Coal and peat	607.66	662.58	630.86	467.29	472.33	481.71	449.95	0.22	-1.57
Oil	1046.31	983.45	861.01	924.30	933.47	905.57	902.79	-1.14	0.30
Gas	192.59	294.46	368.55	558.22	642.50	639.61	655.71	3.89	3.30
Comb. renew/waste	44.27	50.97	75.85	99.93	133.36	146.31	149.03	3.22	3.94
Nuclear	27.69	85.79	291.38	348.01	364.42	344.66	343.25	14.85	0.99
Hydro	42.06	51.07	54.47	66.47	59.08	61.13	63.58	1.53	0.68
Geothermal	3.62	4.30	6.74	10.34	13.29	14.50	13.72	3.73	4.61
Solar, wind, tide	0.07	0.07	0.41	3.82	12.23	15.38	17.76	11.14	23.71
Net electricity trade[1]	0.71	1.92	2.85	0.49	1.97	0.49	1.38	8.55	-9.87
Heat[2]	-	-	0.03	0.54	0.65	0.63	0.60	-	20.25

Source: *IEA/OECD Energy Balances of OECD Countries*

(1) Net trade between OECD and non-OECD countries.

(2) Ambient heat from heat pumps used in the transformation sector.

2. ENERGY SUPPLY, GDP AND POPULATION*

	1973	1980	1990	2000	2006	2007	2008e	Average annual percent change 73-90	90-07
GDP (2000 bil. US$)	4814	5681	7226	9066	10239	10532	10643	2.42	2.24
TPES/GDP[1]	0.41	0.38	0.32	0.27	0.26	0.25	0.24	-1.47	-1.44
Population (millions)	455.0	473.8	497.6	521.5	539.8	543.0	545.2	0.53	0.52
TPES/population[1]	4.32	4.51	4.61	4.75	4.88	4.81	4.77	0.38	0.25
TPES/GDP[2]	149.2	137.4	116.0	100.0	94.0	90.6	89.2	-1.47	-1.44
Coal and peat supply/GDP[2]	244.9	226.3	169.4	100.0	89.5	88.7	82.0	-2.14	-3.73
Elec. consumption/GDP[2]	93.8	101.2	103.1	100.0	99.6	97.8	..	0.56	-0.31
Elec. generation (TWh)	1618	2049	2632	3200	3531	3577	3585	2.90	1.82
Industrial production[2]	60.8	68.1	82.7	100.0	110.2	114.7	113.0	1.83	1.94

Source: *IEA/OECD Energy Balances of OECD Countries* , *OECD Main Economic Indicators*

(1) TPES/GDP in units of tce/2000 thousand US$, TPES/population in units of tce/capita.

(2) As index, 2000 = 100

3. COAL AND PEAT PRODUCTION BY TYPE*

	1978[1]	1980	1990	2000	2006	2007	2008e	Average annual percent change 78-90	90-07
Mtce:									
Coking coal	136.40	123.53	92.69	44.80	36.16	35.74	31.73	-3.17	-5.45
Steam coal	276.37	293.95	217.31	122.24	97.11	91.72	86.35	-1.98	-4.95
Brown coal	179.98	188.71	201.45	135.13	133.86	139.50	135.85	0.94	-2.14
Peat	2.30	2.67	4.96	3.38	6.00	2.62	2.90	6.61	-3.68
Mt:									
Coking coal	141.07	127.95	93.45	45.21	36.33	36.01	32.01	-3.37	-5.45
Steam coal	341.51	363.56	269.75	153.35	122.49	116.03	109.10	-1.95	-4.84
Brown coal	590.99	607.01	657.55	440.36	441.30	453.35	441.13	0.89	-2.16
Peat	8.05	9.34	14.68	10.36	17.65	7.76	8.56	5.13	-3.68

Source: *IEA/OECD Energy Balances of OECD Countries, IEA/OECD Energy Statistics of OECD Countries*

(1) Earliest year for which split by coal type is available.

* Please refer to notes in *Principles and Definitions* .

OECD Europe

4. FINAL CONSUMPTION OF ENERGY BY FUEL*

(Mtce)

	1973	1980	1990	2000	2005	2006	2007	Average annual percent change 73-90	90-07
TFC[1]	**1460.61**	**1537.88**	**1593.20**	**1739.22**	**1853.96**	**1862.21**	**1838.64**	**0.51**	**0.85**
Coal and peat	246.98	215.04	173.45	88.02	76.66	81.10	79.53	-2.06	-4.48
Oil	824.60	781.31	737.18	806.39	828.44	825.64	806.94	-0.66	0.53
Gas	153.86	237.99	291.36	382.02	417.40	409.39	401.06	3.83	1.90
Comb. renew/wastes	40.36	43.56	63.61	74.19	81.12	87.09	90.99	2.71	2.13
Geothermal	0.51	0.73	1.98	2.60	3.10	3.11	3.13	8.34	2.74
Solar, wind, tide	-	0.01	0.25	0.96	1.50	1.65	1.90	-	12.78
Electricity	164.90	209.93	272.03	331.14	364.65	372.64	376.14	2.99	1.92
Heat	29.41	49.31	53.36	53.90	81.10	81.58	78.95	3.57	2.33
of which:									
Total industry	**532.94**	**509.78**	**455.18**	**458.09**	**464.55**	**458.91**	**461.36**	**-0.92**	**0.08**
Coal and peat	127.33	111.31	99.98	66.32	56.32	58.54	58.47	-1.41	-3.11
Oil	214.72	167.06	81.29	75.23	71.98	67.82	64.35	-5.55	-1.37
Gas	77.85	97.10	111.00	139.60	134.98	128.78	131.80	2.11	1.02
Comb. renew/wastes	7.03	8.39	20.52	24.83	25.88	27.60	28.34	6.50	1.92
Geothermal	0.04	0.04	0.06	0.09	0.07	0.07	0.04	2.53	-2.19
Solar, wind, tide	-	-	0.01	0.14	0.18	0.18	0.18	-	17.72
Electricity	90.59	105.28	123.55	139.91	150.36	150.51	153.56	1.84	1.29
Heat	15.38	20.62	18.78	11.96	24.78	25.42	24.61	1.18	1.60
Total transport	**248.48**	**297.93**	**379.38**	**451.09**	**478.54**	**488.40**	**497.50**	**2.52**	**1.61**
Coal and peat	9.79	3.63	0.30	0.01	0.02	0.01	0.01	-18.56	-20.14
Oil	233.60	287.60	371.05	439.91	462.17	468.93	474.24	2.76	1.45
Gas	0.22	0.81	0.43	1.04	2.45	2.45	2.70	3.99	11.33
Comb. renew/wastes	0.00	0.00	0.00	1.00	4.46	7.76	11.21	-2.02	63.86
Electricity	4.86	5.89	7.60	9.11	9.43	9.25	9.35	2.67	1.22
Residential	**345.93**	**366.81**	**398.72**	**430.82**	**455.17**	**452.16**	**424.71**	**0.84**	**0.37**
Coal and peat	79.02	68.26	49.23	16.55	15.29	16.95	15.76	-2.75	-6.48
Oil	144.63	116.48	94.04	90.56	85.92	81.93	65.48	-2.50	-2.11
Gas	43.30	75.52	108.25	155.96	180.76	177.47	169.18	5.54	2.66
Comb. renew/wastes	26.32	28.45	40.67	44.70	45.91	46.66	46.13	2.59	0.74
Geothermal	0.42	0.64	1.31	1.90	2.35	2.35	2.42	6.97	3.68
Solar, wind, tide	-	0.01	0.18	0.64	1.14	1.28	1.49	-	13.27
Electricity	41.18	58.03	78.11	93.63	104.24	106.07	105.68	3.84	1.79
Heat	11.07	19.42	26.93	26.87	19.54	19.46	18.57	5.37	-2.16
Comm & public services	**136.43**	**149.71**	**157.89**	**174.49**	**198.94**	**204.16**	**196.16**	**0.86**	**1.28**
Coal and peat	19.20	23.11	17.87	2.00	1.81	2.08	1.79	-0.42	-12.66
Oil	82.12	72.12	39.60	30.33	31.04	30.01	24.52	-4.20	-2.78
Gas	7.89	14.36	38.23	50.01	61.44	62.07	59.05	9.73	2.59
Comb. renew/waste	1.16	1.50	0.44	1.71	2.66	2.77	3.07	-5.50	12.06
Geothermal	0.02	0.02	0.16	0.20	0.24	0.26	0.23	13.52	2.29
Solar, wind, tide	-	-	0.02	0.07	0.12	0.13	0.14	-	11.36
Electricity	24.88	35.58	56.66	81.55	93.47	99.12	99.77	4.96	3.38
Heat	1.17	3.03	4.92	8.62	8.15	7.71	7.60	8.83	2.59
Non-energy use	**115.96**	**122.38**	**141.54**	**158.89**	**166.30**	**166.96**	**169.08**	**1.18**	**1.05**
Coal and peat	4.42	3.08	2.08	1.19	1.59	1.63	1.83	-4.35	-0.73
Oil	104.62	101.51	119.45	138.18	145.12	147.06	148.80	0.78	1.30
Gas	6.92	17.79	20.02	19.52	19.59	18.27	18.46	6.45	-0.48

Source: *IEA/OECD Energy Balances of OECD Countries*

(1) Total Final Consumption (TFC) excludes use in transformation and energy sectors.

* Please refer to notes in *Principles and Definitions*.

OECD Europe

5. COAL BALANCE*

(Mtce)

	1973	1980	1990	2000	2006	2007	2008e	Average annual percent change 73-90	90-07
Production	579.5	608.9	516.4	305.5	273.1	269.6	256.8	-0.7	-3.8
Imports	97.9	143.2	168.2	196.2	248.0	249.2	238.5	3.2	2.3
Exports	-77.4	-75.1	-60.5	-48.1	-47.6	-46.8	-37.5	-1.4	-1.5
Stock changes	7.8	-14.4	6.7	13.7	-1.2	9.7	-7.9	x	x
Primary supply	**607.7**	**662.6**	**630.9**	**467.3**	**472.3**	**481.7**	**450.0**	**0.2**	**-1.6**
Statistical difference	**5.1**	**-6.0**	**-11.1**	**0.1**	**3.7**	**-4.3**	**..**	**x**	**x**
Total transformation	**-341.3**	**-421.7**	**-432.4**	**-368.1**	**-384.4**	**-386.7**	**..**	**1.4**	**-0.7**
Electricity and heat gen.	-279.3	-366.1	-385.8	-330.0	-349.3	-351.1	..	1.9	-0.6
Main activity producers (1)	*-258.2*	*-306.9*	*-335.8*	*-310.5*	*-329.5*	*-330.9*	*..*	*1.6*	*-0.1*
Autoproducers	*-21.1*	*-59.2*	*-50.0*	*-19.5*	*-19.8*	*-20.2*	*..*	*5.2*	*-5.2*
Gas works	-8.9	-6.8	-3.1	-0.6	-0.8	-0.7	..	-6.1	-8.6
Coal transformation(2)	-53.2	-48.8	-43.5	-37.6	-34.3	-34.9	..	-1.2	-1.3
BKB plants	*2.4*	*1.6*	*-0.9*	*-0.3*	*-0.3*	*-0.2*	*..*	*-*	*-8.1*
Blast furnaces	*-38.4*	*-37.3*	*-32.8*	*-30.2*	*-28.1*	*-29.3*	*..*	*-0.9*	*-0.7*
Coke ovens	*-17.9*	*-13.8*	*-10.1*	*-7.3*	*-5.9*	*-5.5*	*..*	*-3.3*	*-3.5*
Patent fuel plants	*0.8*	*0.7*	*0.2*	*0.2*	*0.1*	*0.0*	*..*	*-7.4*	*-8.4*
Other transformation(3)	-	-	-	0.0	0.0	0.0	..	-	-
Own use	**-21.2**	**-18.3**	**-13.1**	**-10.1**	**-9.1**	**-9.8**	**..**	**-2.8**	**-1.7**
Distribution losses	**-3.3**	**-1.5**	**-0.8**	**-1.1**	**-1.4**	**-1.5**	**..**	**x**	**x**
Final consumption(4)	**247.0**	**215.0**	**173.4**	**88.0**	**81.1**	**79.5**	**..**	**-2.1**	**-4.5**
Industry sector(5)	127.3	111.3	100.0	66.3	58.5	58.5	..	-1.4	-3.1
Iron and steel	*52.3*	*42.9*	*39.4*	*27.4*	*25.1*	*24.1*	*..*	*-1.6*	*-2.9*
Chemical	*14.1*	*12.8*	*11.3*	*4.4*	*4.4*	*3.3*	*..*	*-1.3*	*-7.1*
Non-metallic minerals	*13.5*	*16.0*	*17.7*	*11.4*	*8.2*	*9.5*	*..*	*1.6*	*-3.6*
Paper, pulp and print	*4.1*	*3.4*	*3.8*	*2.2*	*2.0*	*1.8*	*..*	*-0.5*	*-4.2*
Transport sector(6)	9.8	3.6	0.3	0.0	0.0	0.0	..	-18.6	-20.1
Other sectors(7)	105.4	97.0	71.1	20.5	20.9	19.2	..	-2.3	-7.4
Comm. and pub. services	*19.2*	*23.1*	*17.9*	*2.0*	*2.1*	*1.8*	*..*	*-0.4*	*-12.7*
Residential	*79.0*	*68.3*	*49.2*	*16.6*	*17.0*	*15.8*	*..*	*-2.7*	*-6.5*
Non-energy use	4.4	3.1	2.1	1.2	1.6	1.8	..	-4.4	-0.7

Source: *IEA/OECD Energy Balances of OECD Countries*

(1) Main activity electricity and heat generation includes district heating.

(2) Coal transformation refers to the transformation of coal and peat to secondary and tertiary products (mainly coke, briquettes, coke oven gas and blast furnace gas).

(3) Other transformation includes liquefaction and non-specified transformation.

(4) Final Consumption includes non-energy use and energy use (industry, transport and other sectors).

(5) Please refer to notes in *Principles and Definitions* for detailed explanation.

(6) Transport sector includes rail and inland waterways.

(7) Other sectors includes commercial and public services, agriculture, and residential.

* "Coal" refers to all types of coal, primary (anthracite, coking coal, other bituminous coal, sub-bituminous coal, lignite/brown coal, peat) and derived fuels (including patent fuel, BKB/peat briquettes, coke oven coke, gas coke, coal tar, coke oven gas, gas works gas, blast furnace gas and oxygen steel furnace gas). Quantities have been converted to Mtce using calorific values reported by the respective countries. Please refer to notes in *Principles and Definitions*.

OECD Europe

6. USE OF COAL FOR SELECTED END-USES*

(million tonnes)

	1978	1980	1990	2000	2005	2006	2007	Average annual percent change 78-90	90-07
Steam coal	**360.16**	**393.48**	**349.73**	**272.52**	**281.50**	**295.04**	**297.72**	**-0.24**	**-0.94**
Total electricity and heat	252.42	283.00	274.89	220.43	229.42	241.13	238.45	0.71	-0.83
Main activity producers	*203.10*	*232.57*	*238.33*	*210.67*	*220.44*	*231.67*	*228.94*	*1.34*	*-0.24*
Autoproducers	*49.33*	*50.42*	*36.56*	*9.76*	*8.99*	*9.46*	*9.51*	*-2.47*	*-7.62*
Patent fuel/BKB plants	6.57	6.00	2.02	0.84	0.45	0.46	0.36	-9.37	-9.69
Coke ovens	2.28	2.21	0.09	-	-	-	-	-23.82	-
Blast furnace inputs	0.01	0.01	3.58	7.29	7.69	8.07	7.79	72.95	4.68
Gas manufacture	1.63	1.49	0.38	-	-	-	-	-11.40	-
Industry sector	39.59	42.77	37.20	30.65	28.30	30.63	32.44	-0.52	-0.80
Iron and steel	*4.40*	*4.38*	*3.40*	*3.32*	*4.16*	*4.40*	*3.64*	*-2.13*	*0.39*
Chemical	*3.13*	*4.09*	*5.62*	*2.96*	*3.28*	*2.72*	*2.22*	*4.99*	*-5.33*
Non-metallic minerals	*13.41*	*14.81*	*16.06*	*9.72*	*6.40*	*6.56*	*7.89*	*1.51*	*-4.09*
Paper, pulp and print	*0.84*	*0.91*	*2.15*	*1.77*	*1.61*	*1.57*	*1.39*	*8.14*	*-2.52*
Other industry	*17.80*	*18.58*	*9.98*	*12.89*	*12.85*	*15.39*	*17.30*	*-4.71*	*3.29*
Res, comm & pub serv[(1)]	47.57	48.76	26.36	12.66	12.51	13.51	13.49	-4.80	-3.86
Non-energy use	0.08	0.09	0.05	0.03	0.15	0.08	0.20	-3.32	8.09
Coking coal	**145.14**	**154.75**	**129.45**	**92.83**	**81.82**	**85.09**	**86.72**	**-0.95**	**-2.33**
Total electricity and heat	7.14	10.83	18.23	13.37	12.70	12.20	13.48	8.12	-1.76
Main activity producers	*6.19*	*9.59*	*14.32*	*10.17*	*10.73*	*9.95*	*11.40*	*7.23*	*-1.33*
Autoproducers	*0.95*	*1.25*	*3.91*	*3.20*	*1.97*	*2.25*	*2.08*	*12.52*	*-3.64*
Patent fuel/BKB plants	-	-	-	-	-	-	-	-	-
Coke ovens	135.41	141.39	107.92	73.01	64.76	69.26	69.57	-1.87	-2.55
Blast furnace inputs	-	0.28	1.45	1.85	2.82	2.76	3.40	-	5.13
Gas manufacture	2.46	2.03	0.26	-	-	-	-	-17.08	-
Industry sector	0.14	0.23	1.98	2.59	0.80	0.48	0.45	24.49	-8.40
Iron and steel	*0.01*	*0.01*	*1.63*	*0.18*	*0.21*	*0.24*	*0.19*	*57.52*	*-11.78*
Chemical	*0.00*	*0.00*	*-*	*0.00*	*-*	*-*	*-*	*-*	*-*
Non-metallic minerals	*0.00*	*0.01*	*0.01*	*0.02*	*0.01*	*0.02*	*0.04*	*13.00*	*6.83*
Paper, pulp and print	*-*	*-*	*-*	*-*	*-*	*-*	*-*	*-*	*-*
Other industry	*0.13*	*0.21*	*0.34*	*2.39*	*0.57*	*0.22*	*0.21*	*8.07*	*-2.66*
Res, comm & pub serv[(1)]	0.27	0.32	0.14	0.10	0.13	0.11	0.08	-5.56	-3.37
Non-energy use	-	-	-	0.23	0.22	0.23	0.23	-	-
Brown coal/lignite	**591.89**	**609.46**	**669.91**	**447.55**	**446.15**	**440.72**	**454.73**	**1.04**	**-2.25**
Total electricity and heat	359.55	373.47	467.82	408.41	412.65	404.11	419.50	2.22	-0.64
Main activity producers	*343.49*	*353.79*	*440.18*	*402.08*	*406.58*	*398.06*	*414.02*	*2.09*	*-0.36*
Autoproducers	*16.06*	*19.69*	*27.64*	*6.33*	*6.07*	*6.04*	*5.48*	*4.63*	*-9.08*
Patent fuel/BKB plants	134.34	139.29	108.97	12.18	12.44	13.04	12.26	-1.73	-12.06
Coke ovens	-	-	-	-	-	-	-	-	-
Gas manufacture	6.40	6.34	2.86	1.35	1.49	1.51	1.49	-6.50	-3.77
Industry sector	48.24	46.99	43.49	15.37	10.06	11.08	10.11	-0.86	-8.22
Iron and steel	*1.12*	*1.44*	*2.25*	*1.00*	*0.89*	*0.84*	*0.80*	*6.02*	*-5.93*
Chemical	*14.37*	*15.53*	*10.76*	*3.28*	*3.19*	*3.17*	*1.78*	*-2.38*	*-10.04*
Non-metallic minerals	*1.65*	*1.67*	*2.12*	*0.90*	*0.55*	*0.67*	*0.85*	*2.10*	*-5.20*
Paper, pulp and print	*4.04*	*4.15*	*1.99*	*0.48*	*0.45*	*0.37*	*0.39*	*-5.73*	*-9.19*
Other industry	*27.07*	*24.21*	*26.37*	*9.71*	*4.98*	*6.03*	*6.29*	*-0.22*	*-8.08*
Res, comm & pub serv[(1)]	28.55	36.62	41.35	8.62	7.95	9.21	9.33	3.14	-8.39
Non-energy use	0.83	0.82	0.58	0.02	0.04	0.04	0.04	-2.94	-14.81

Source: *IEA/OECD Energy Statistics of OECD Countries*

(1) Residential, commercial and public services.

* Please refer to notes in *Principles and Definitions*.

OECD Europe

7. FUEL PRICES TO END USERS*

	1978[1]	1980	1990	2000	2004	2005	2006	2007	2008
					(US dollars / tce)				
For electricity generation									
Steam coal	..	..	..	..	..	..	..	..	..
Heavy fuel oil	..	..	..	..	..	..	..	..	..
Natural gas	..	..	..	..	..	..	..	..	..
For industry									
Steam coal	..	..	..	..	..	..	..	..	..
Coking coal	..	..	..	..	..	..	..	..	..
High sulphur fuel oil	..	..	..	..	..	..	..	..	..
Low sulphur fuel oil	..	..	..	..	..	..	..	..	..
Natural gas	..	..	..	..	..	..	..	..	..
					(US dollars / unit)[2]				
For electricity generation									
Steam coal	..	..	..	..	..	..	..	..	..
Heavy fuel oil	..	..	..	..	..	..	..	..	..
Natural gas	..	..	..	..	..	..	..	..	..
For industry									
Steam coal	..	..	..	..	..	..	..	..	..
Coking coal	..	..	..	..	..	..	..	..	..
High sulphur fuel oil	..	..	..	..	..	..	..	..	..
Low sulphur fuel oil	..	..	..	..	..	..	..	..	..
Natural gas	..	..	..	..	..	..	..	..	..

Source: *IEA/OECD Energy Prices & Taxes*

(1) Earliest year for which split by coal type is available.

(2) For steam coal, coking coal and heavy fuel oil per metric tonne; for natural gas per 10^7 kilocalories GCV.

* Please refer to notes in *Principles and Definitions*.

8. COAL TRADE BY TYPE OF COAL*

(Mtce)

	1973	1980	1990	2000	2004	2005	2006	2007	2008e
Total imports	**97.87**	**143.17**	**168.25**	**196.16**	**230.28**	**227.29**	**248.00**	**249.21**	**238.48**
Hard coal	70.11	117.95	148.65	178.99	214.71	213.03	233.36	233.64	223.87
Coking coal	*..*	*49.56*	*56.94*	*56.68*	*53.18*	*53.93*	*57.14*	*58.56*	*58.40*
Steam coal	*..*	*68.38*	*91.70*	*122.31*	*161.53*	*159.10*	*176.22*	*175.07*	*165.47*
Brown coal / lignite	5.30	5.73	7.18	2.55	1.62	1.62	2.03	2.25	1.99
Peat	-	-	0.10	0.10	0.16	0.13	0.11	0.16	0.16
Coal products[1]	22.46	19.49	12.32	14.52	13.78	12.51	12.50	13.17	12.46
Total exports	**77.44**	**75.09**	**60.46**	**48.08**	**47.18**	**41.66**	**47.55**	**46.77**	**37.48**
Hard coal	52.78	51.51	41.58	35.58	34.42	30.01	32.66	32.39	22.91
Coking coal	*..*	*20.95*	*19.56*	*9.76*	*6.71*	*6.47*	*7.88*	*7.07*	*4.81*
Steam coal	*..*	*30.56*	*22.02*	*25.82*	*27.71*	*23.54*	*24.78*	*25.32*	*18.10*
Brown coal / lignite	1.43	4.55	4.75	3.82	2.50	2.70	2.61	2.46	3.30
Peat	-	0.00	0.12	0.06	0.04	0.05	0.04	0.02	0.01
Coal products[1]	23.23	19.03	14.00	8.63	10.22	8.90	12.24	11.90	11.25

Source: *IEA/OECD Energy Balances of OECD Countries, IEA/OECD Energy Statistics of OECD Countries*

(1) Coal products includes products derived from coal, for example: coke, coal tar, briquettes, patent fuels.

* Please refer to notes in *Principles and Definitions*.

OECD Europe

9. HARD COAL IMPORTS BY ORIGIN*

(thousand tonnes)

	1978[1]	1980	1990	2000	2004	2005	2006	2007	2008e
Hard Coal	**92461**	**126676**	**157541**	**195213**	**236117**	**235183**	**257544**	**259572**	**247967**
Coking Coal	**40078**	**49216**	**55545**	**56071**	**52255**	**52941**	**56065**	**58116**	**57865**
Australia	4497	4326	10043	21758	20587	20394	22012	22533	21866
Canada	294	224	2812	7072	6067	6735	7028	7690	6633
Czech Republic	909	1072	774	3388	3656	3366	4562	4678	3891
Germany	10550	8326	3141	2	108	289	3	-	1
Poland	6190	4668	2570	3125	2955	3253	4053	3246	3400
United Kingdom	79	66	65	-	-	6	-	-	-
United States	8745	21591	28433	16900	12490	13840	13440	15076	17954
Other OECD	105	182	80	31	100	187	74	115	192
China, People's Rep.	-	-	1	2	1976	279	291	70	158
Colombia	-	-	24	140	275	193	206	154	328
Indonesia	-	-	46	441	-	-	-	-	-
South Africa	206	544	158	388	433	295	65	150	494
Former USSR[2]	3005	2992	-	-	-	-	-	-	-
Russia[3]	-	-	*2419*	*2327*	*1918*	*2658*	*2651*	*2183*	*1340*
Other Former USSR[3]	-	-	-	*26*	*543*	*548*	*713*	*654*	*82*
Venezuela	-	-	-	418	969	872	815	1059	1023
Vietnam	-	-	-	53	-	-	40	-	75
Non-specified/other	5498	5225	4979	-	178	26	112	508	428
Steam coal	**52383**	**77460**	**101996**	**139142**	**183862**	**182242**	**201479**	**201456**	**190102**
Australia	2955	4875	9790	9416	10442	7533	6476	7717	6318
Canada	816	695	832	12	286	807	210	804	271
Czech Republic	243	255	327	2393	1801	1004	1214	1368	2143
Germany	6716	4145	2124	437	549	572	435	433	507
Poland	15647	16971	10802	17721	15210	14771	13987	9511	6414
United Kingdom	2285	4184	2423	593	303	297	194	268	385
United States	499	14231	20504	4724	3749	2364	3379	5541	12839
Other OECD	980	1406	3548	3665	2464	2725	2670	4892	6289
China, People's Rep.	21	417	2783	1887	3112	1898	2009	2506	1711
Colombia	-	-	9060	22306	25621	26517	28536	31756	29891
Indonesia	-	-	194	8230	13559	14251	20555	17115	15625
South Africa	10814	20027	26099	42810	55859	52971	55207	48586	37948
Former USSR[2]	2863	2405	-	-	-	-	-	-	-
Russia[3]	-	-	*6115*	*15292*	*41242*	*48664*	*57640*	*59555*	*58817*
Other Former USSR[3]	-	-	-	*894*	*2205*	*3021*	*2696*	*2139*	*3270*
Venezuela	-	-	1475	3081	1397	1142	1091	1305	1083
Vietnam	-	-	-	561	321	213	396	174	75
Non-specified/other	8544	7849	5920	5120	5742	3492	4784	7786	6516

Source: IEA/OECD Coal Statistics

(1) Earliest year for which split by coal type is available.

(2) If no detail.

(3) Data for former republics are not available separately for some OECD member countries.

* Please refer to notes in *Principles and Definitions*.

OECD Europe

10. COKING COAL EXPORTS BY DESTINATION*

(thousand tonnes)

	1978[1]	1980	1990	2000	2004	2005	2006	2007	2008e
Total Exports	**35537**	**21303**	**19781**	**9747**	**6757**	**6663**	**8092**	**7234**	**4911**
Exports to:									
Total OECD	**25095**	**17617**	**11025**	**8106**	**6717**	**6172**	**7363**	**7035**	**4871**
Australia	-	-	-	-	-	-	-	-	-
Austria	1283	1131	1351	1844	1713	1514	1517	1458	1230
Belgium	2383	1242	858	1	169	20	4	16	136
Canada	-	-	-	-	-	-	-	-	-
Czech Republic	-	-	-	214	462	523	944	1032	877
Denmark	-	3	-	-	20	-	-	-	18
Finland	-	27	203	717	354	13	-	-	-
France	6331	4817	1697	108	253	30	80	25	23
Germany	154	206	144	1061	266	397	208	16	-
Greece	54	99	-	-	-	-	-	-	-
Hungary	-	-	-	1010	385	449	604	580	324
Iceland	-	-	-	-	-	-	-	-	-
Ireland	-	-	3	4	5	1	1	-	-
Italy	4005	3105	1017	-	-	295	94	106	-
Japan	804	214	-	-	-	-	-	-	-
Korea	-	-	-	-	-	-	-	-	-
Luxembourg	286	1	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-
Netherlands	1426	1109	573	323	4	48	30	-	37
New Zealand	-	-	-	-	-	-	-	-	-
Norway	125	80	-	53	-	-	-	9	-
Poland	-	-	-	538	572	592	1367	1863	565
Portugal	122	60	52	-	-	-	-	-	-
Slovak Republic	5126	4345	3681	1570	2308	1909	2299	1905	1661
Spain	1826	648	649	65	118	99	142	25	-
Sweden	387	124	-	494	-	-	-	-	-
Switzerland	18	-	3	-	-	-	-	-	-
Turkey	89	-	-	100	-	212	73	-	-
United Kingdom	573	406	794	4	88	-	-	-	-
United States	103	-	-	-	-	70	-	-	-
Total Non-OECD	**2491**	**2657**	**4676**	**1641**	**38**	**491**	**729**	**199**	**32**
Brazil	15	235	1249	143	-	-	70	-	-
Chinese Taipei	-	-	-	-	-	-	-	-	-
Egypt	-	115	100	529	37	355	298	-	-
Hong Kong, China	-	-	-	-	-	-	-	-	-
India	-	-	284	-	-	-	-	-	-
Israel	-	-	-	-	-	-	-	-	-
Romania	-	-	100	62	-	-	-	-	-
Oth. Africa & Mid. East	520	166	-	2	-	-	-	-	-
Other Latin America	5	145	1249	2	-	-	-	-	-
Other Asia & Oceania	-	-	-	-	-	2	-	-	-
Other Europe and FSU	1951	1996	1694	903	1	134	361	199	32
Non-Specified/Other	**7951**	**1029**	**4080**	**-**	**2**	**-**	**-**	**-**	**8**

Source: IEA/OECD Coal Statistics

(1) Earliest year for which split by coal type is available.

* Please refer to notes in *Principles and Definitions*.

OECD Europe

11. STEAM COAL EXPORTS BY DESTINATION*

(thousand tonnes)

	1978[1]	1980	1990	2000	2004	2005	2006	2007	2008e
Total Exports	**33590**	**34150**	**24778**	**29263**	**30666**	**27401**	**27189**	**28415**	**20198**
Exports to:									
Total OECD	**25347**	**27662**	**20278**	**28330**	**29860**	**26868**	**27002**	**28017**	**19970**
Australia	-	-	1	-	-	-	-	-	-
Austria	275	438	1216	1312	1622	1201	1316	1285	908
Belgium	2633	2373	1471	684	700	865	482	233	280
Canada	-	-	-	-	1	19	42	32	-
Czech Republic	274	2302	2282	864	783	719	946	1377	892
Denmark	4161	4348	1347	2382	1410	1154	745	821	627
Finland	4095	3692	2815	1228	1272	963	567	274	128
France	6035	5306	1167	2413	2606	3116	2708	1652	1894
Germany	3171	4138	4722	14426	16180	12840	15709	16897	9922
Greece	1	1	-	2	69	144	133	172	76
Hungary	-	-	-	279	258	300	264	158	104
Iceland	-	12	18	7	16	45	88	91	59
Ireland	540	772	793	468	649	595	509	519	459
Italy	1530	1242	600	923	96	245	155	806	1577
Japan	-	-	61	-	-	-	-	-	-
Korea	-	-	-	-	-	-	-	-	-
Luxembourg	52	96	3	93	42	38	30	96	74
Mexico	-	-	-	-	-	-	-	1	-
Netherlands	938	1409	1341	363	517	651	612	868	798
New Zealand	-	-	-	-	-	-	-	-	-
Norway	167	108	307	597	592	496	417	387	344
Poland	-	-	1	15	7	82	17	22	282
Portugal	15	9	186	5	216	437	144	228	254
Slovak Republic	237	322	-	286	294	257	206	169	143
Spain	21	13	275	441	102	58	145	203	153
Sweden	244	250	858	170	334	208	297	303	86
Switzerland	90	318	52	20	8	8	17	2	101
Turkey	74	-	-	-	19	66	-	-	-
United Kingdom	149	226	762	1351	1999	2314	1389	1389	809
United States	645	287	-	1	68	47	64	32	-
Total Non-OECD	**85**	**120**	**722**	**905**	**684**	**531**	**174**	**394**	**177**
Brazil	-	12	10	-	-	-	-	-	5
Chinese Taipei	-	-	-	-	1	-	-	-	-
Egypt	-	-	1	2	1	4	17	16	22
Hong Kong, China	-	-	-	1	-	-	-	-	-
India	-	-	1	-	46	1	1	1	1
Israel	-	-	-	-	-	5	1	-	-
Romania	-	-	16	-	-	-	4	-	-
Oth. Africa & Mid. East	31	33	375	3	501	436	2	275	23
Other Latin America	-	1	-	16	-	-	13	4	40
Other Asia & Oceania	-	-	3	4	1	4	1	16	2
Other Europe and FSU	54	74	316	879	134	81	135	82	84
Non-Specified/Other	**8158**	**6368**	**3778**	**28**	**122**	**2**	**13**	**4**	**51**

Source: IEA/OECD Coal Statistics

(1) Earliest year for which split by coal type is available.

* Please refer to notes in *Principles and Definitions*.

OECD Europe

12. COAL IMPORT VALUES BY ORIGIN*

(average unit value, CIF, US$/tonne)

	1988	1990	1995	2003	2004	2005	2006	2007	2008
Coking coal[1]	**56.95**	**65.01**	**58.49**	**59.61**	**78.12**	**109.61**	**125.86**	**126.10**	**197.62**
Imports from:									
Australia	53.10	67.29	57.03	58.03	73.63	114.89	135.52	127.97	219.74
Canada	52.85	64.53	57.02	61.31	76.64	113.81	137.66	129.45	218.81
Czech Republic	182.83	67.03	82.00	..	98.50	242.07	112.10	133.32	235.16
Poland	54.82	63.98	59.26	62.24	108.71	138.92	118.82	139.47	245.85
United States	57.30	63.07	61.20	64.18	84.75	110.91	123.44	126.16	174.66
China	..	63.56	51.72	81.65	198.13	219.14	146.38	238.11	276.79
Colombia	96.23	68.65	59.04	166.16	84.09	104.26	2611.31	92.53	167.74
South Africa	39.86	58.81	49.65	39.20	61.31	71.77	66.18	96.82	141.18
Former USSR[2]	50.68	57.44	56.00	47.45	86.41	86.05	81.32	86.75	142.20
Steam coal[3]	**46.49**	**52.64**	**47.51**	**41.94**	**61.91**	**71.27**	**69.83**	**82.27**	**138.12**
Imports from:									
Australia	43.69	52.03	45.06	46.83	69.05	106.40	109.71	103.93	185.19
Canada	50.10	52.72	44.71	88.14	87.68	119.03	146.42	112.33	180.46
Czech Republic	57.22	65.54	63.84	64.04	83.24	113.59	102.69	112.36	158.65
Poland	51.56	61.05	46.78	43.26	68.95	78.34	75.65	94.13	156.01
United States	54.21	54.69	49.12	47.37	61.50	86.75	82.08	97.50	137.82
China	39.56	49.36	45.29	51.38	60.61	93.41	150.20	73.02	161.11
Colombia	39.48	52.60	43.42	41.65	61.54	67.98	66.07	78.15	138.18
South Africa	37.44	45.18	43.76	39.10	58.00	67.64	66.24	80.22	142.06
Former USSR[2]	38.63	44.69	42.55	42.22	65.14	68.46	68.03	79.10	132.27

Source: IEA/OECD Coal Statistics

Note: On occasion, shipment of extremely small quantities of high valued coal results in high import costs.

(1) Weighted average of individual countries using import volumes as weights. Prices exclude intra-EU trade.

(2) Former USSR until 1991, Russia starting in 1992.

(3) Bituminous steam coal only. Weighted average of individual countries using volumes as weights. Prices exclude intra-EU trade.

* Please refer to notes in *Principles and Definitions*.

IEA Total*

Chart 1: TPES by fuel (Mtce)

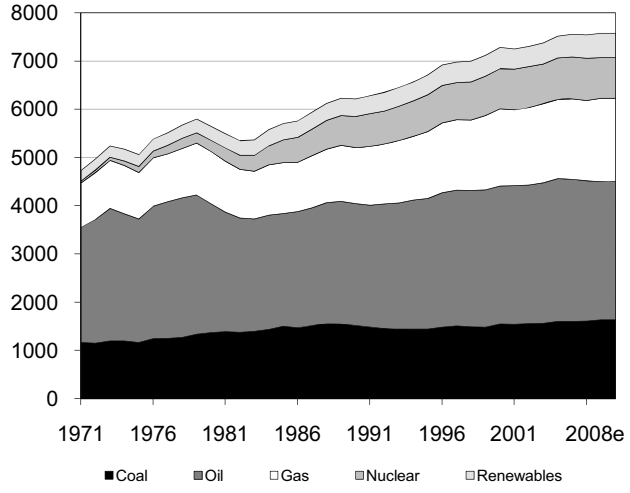


Chart 2: Coal supply indicators (1971 = 100)

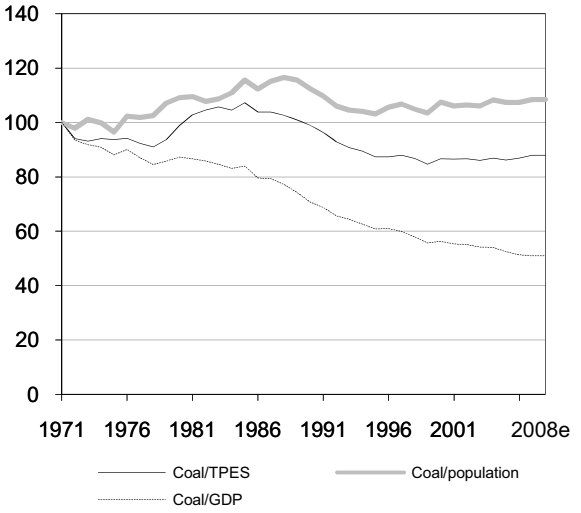


Chart 3: Primary coal supply (Mtce)

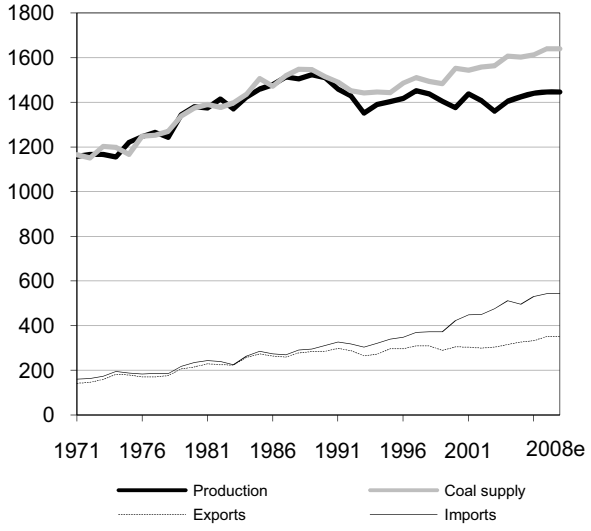


Chart 4: Coal consumption (Mtce)

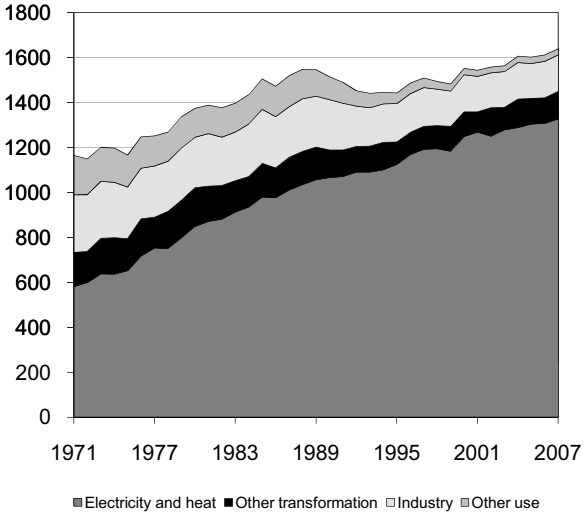


Chart 5: Electricity generation by fuel (TWh)

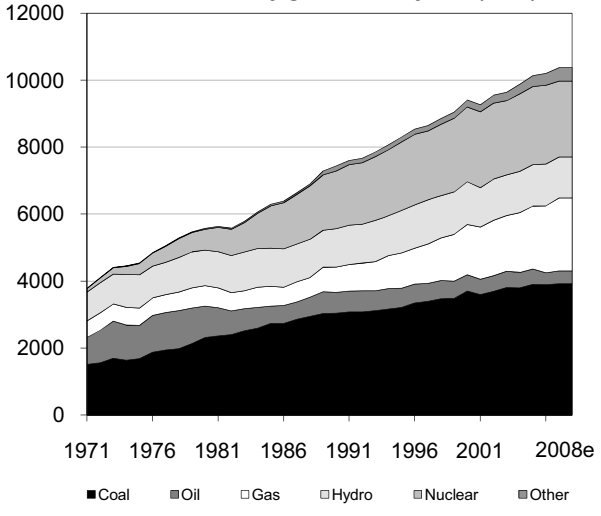
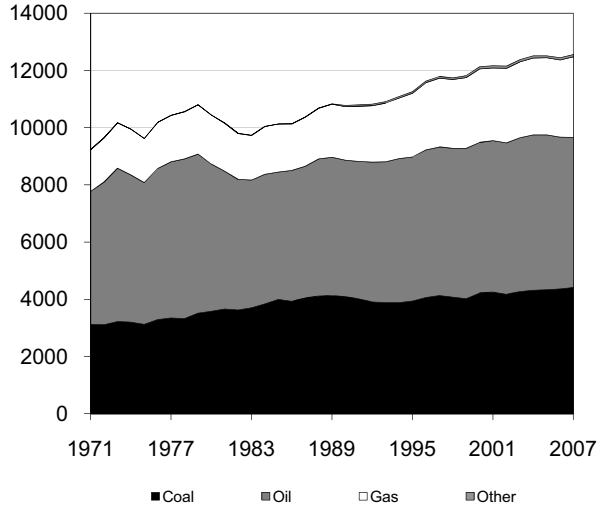


Chart 6: CO_2 emissions by fuel (Mt CO_2)



*Please refer to notes in *Principles and Definitions* . Peat is included in coal for all charts.

IEA Total

1. TOTAL PRIMARY ENERGY SUPPLY (TPES) BY FUEL*

	1973	1980	1990	2000	2006	2007	2008e	Average annual percent change 73-90	90-07
TPES (Mtce)	**5243.76**	**5649.05**	**6221.38**	**7284.59**	**7546.47**	**7582.82**	**7489.70**	**1.01**	**1.17**
Coal and peat	1202.16	1375.18	1516.06	1553.32	1613.62	1640.67	1613.16	1.37	0.47
Oil	2745.29	2668.15	2529.00	2859.41	2907.59	2863.71	2745.83	-0.48	0.73
Gas	993.33	1083.01	1166.44	1599.36	1663.19	1726.24	1765.03	0.95	2.33
Comb. renew/waste	114.04	145.64	191.21	239.97	284.40	304.05	308.20	3.09	2.77
Nuclear	70.31	231.79	641.77	832.57	873.10	842.38	841.78	13.89	1.61
Hydro	109.83	130.81	140.33	157.12	153.67	150.23	152.49	1.45	0.40
Geothermal	7.98	12.52	30.82	33.87	29.00	29.69	32.29	8.27	-0.22
Solar, wind, tide	0.07	0.10	2.67	8.17	19.33	23.96	28.84	24.04	13.77
Net electricity trade[1]	0.74	1.86	3.05	0.27	1.88	1.22	1.44	8.72	-5.25
Heat[2]	-	-	0.03	0.54	0.69	0.68	0.64	-	20.72

Source: *IEA/OECD Energy Balances of OECD Countries*

(1) Net trade between OECD and non-OECD countries.

(2) Ambient heat from heat pumps used in the transformation sector.

2. ENERGY SUPPLY, GDP AND POPULATION*

	1973	1980	1990	2000	2006	2007	2008e	Average annual percent change 73-90	90-07
GDP (2000 bil. US$)	11944	14382	19544	25178	28637	29343	29575	2.94	2.42
TPES/GDP[1]	0.44	0.39	0.32	0.29	0.26	0.26	0.25	-1.87	-1.22
Population (millions)	848.6	898.7	962.1	1031.3	1072.4	1079.3	1084.7	0.74	0.68
TPES/population[1]	6.18	6.29	6.47	7.06	7.04	7.03	6.91	0.27	0.49
TPES/GDP[2]	151.7	135.8	110.0	100.0	91.1	89.3	87.5	-1.87	-1.22
Coal and peat supply/GDP[2]	163.1	155.0	125.7	100.0	91.3	90.6	88.4	-1.52	-1.91
Elec. consumption/GDP[2]	97.1	101.4	99.8	100.0	96.2	95.9	..	0.16	-0.23
Elec. generation (TWh)	4415	5574	7440	9407	10201	10376	10358	3.12	1.98
Industrial production[2]	..	..	..	..	..	..	..	-	-

Source: *IEA/OECD Energy Balances of OECD Countries* , *OECD Main Economic Indicators*

(1) TPES/GDP in units of tce/2000 thousand US$, TPES/population in units of tce/capita.

(2) As index, 2000 = 100

3. COAL AND PEAT PRODUCTION BY TYPE*

	1978[1]	1980	1990	2000	2006	2007	2008e	Average annual percent change 78-90	90-07
Mtce:									
Coking coal	288.05	302.45	277.37	226.32	224.28	244.48	248.77	-0.31	-0.74
Steam coal	740.20	845.73	957.17	932.55	994.09	981.92	990.31	2.17	0.15
Brown coal	213.08	230.24	272.07	215.09	216.42	218.03	215.16	2.06	-1.29
Peat	2.30	2.67	4.96	3.38	6.00	2.62	2.90	6.61	-3.68
Mt:									
Coking coal	293.39	307.01	279.57	233.06	233.69	255.08	259.78	-0.40	-0.54
Steam coal	890.40	1025.03	1161.13	1143.47	1254.56	1242.70	1253.92	2.24	0.40
Brown coal	666.16	699.43	814.28	620.84	621.82	626.15	617.35	1.69	-1.53
Peat	8.05	9.34	14.68	10.36	17.65	7.76	8.56	5.13	-3.68

Source: *IEA/OECD Energy Balances of OECD Countries, IEA/OECD Energy Statistics of OECD Countries*

(1) Earliest year for which split by coal type is available.

* Please refer to notes in *Principles and Definitions* .

IEA Total

4. FINAL CONSUMPTION OF ENERGY BY FUEL*

(Mtce)

	1973	1980	1990	2000	2005	2006	2007	Average annual percent change 73-90	90-07
TFC[1]	**3949.89**	**4083.52**	**4279.61**	**5008.87**	**5210.70**	**5201.95**	**5220.31**	**0.47**	**1.18**
Coal and peat	406.16	353.02	325.76	193.97	184.33	191.81	189.54	-1.29	-3.14
Oil	2220.77	2173.32	2183.01	2529.32	2631.91	2610.55	2571.78	-0.10	0.97
Gas	726.10	793.78	823.24	1041.83	1028.89	1005.35	1032.58	0.74	1.34
Comb. renew/wastes	109.69	137.48	116.39	175.35	185.91	199.06	209.22	0.35	3.51
Geothermal	0.07	0.10	2.18	3.19	4.22	4.35	4.60	22.27	4.51
Solar, wind, tide	-	0.04	2.04	4.35	4.22	4.39	4.82	-	5.17
Electricity	457.50	574.89	769.45	992.96	1077.08	1086.66	1110.19	3.11	2.18
Heat	29.59	50.88	57.55	67.90	94.15	99.77	97.57	3.99	3.15
of which:									
Total industry	**1343.76**	**1307.81**	**1131.93**	**1242.41**	**1187.27**	**1196.64**	**1202.52**	**-1.00**	**0.36**
Coal and peat	254.16	224.19	223.35	166.06	156.61	163.06	161.56	-0.76	-1.89
Oil	439.42	386.25	226.52	192.00	195.59	188.43	176.33	-3.82	-1.46
Gas	353.37	346.04	306.30	386.54	342.84	340.89	354.54	-0.84	0.86
Comb. renew/wastes	58.14	67.91	48.26	96.55	93.18	100.95	100.35	-1.09	4.40
Geothermal	-	-	0.31	0.36	0.37	0.37	0.39	-	1.25
Solar, wind, tide	-	-	0.01	0.14	0.18	0.18	0.18	-	17.74
Electricity	223.17	261.37	307.51	378.66	364.75	364.14	371.14	1.90	1.11
Heat	15.52	22.05	19.68	22.11	33.76	38.63	38.04	1.41	3.95
Total transport	**971.14**	**1079.79**	**1294.92**	**1575.97**	**1664.95**	**1678.01**	**1694.45**	**1.71**	**1.59**
Coal and peat	10.30	3.64	0.40	0.14	0.15	0.12	0.13	-17.38	-6.50
Oil	929.04	1043.34	1256.91	1527.04	1604.83	1610.20	1615.31	1.79	1.49
Gas	24.28	24.22	26.68	29.96	29.80	29.73	31.63	0.56	1.01
Comb. renew/wastes	0.00	0.00	0.00	5.75	16.27	24.26	33.54	-2.02	x
Electricity	7.51	8.59	10.93	13.08	13.90	13.70	13.84	2.23	1.40
Residential	**768.16**	**774.51**	**823.94**	**957.16**	**1001.48**	**968.35**	**964.86**	**0.41**	**0.93**
Coal and peat	95.33	83.53	63.90	19.39	16.74	18.61	17.27	-2.33	-7.41
Oil	278.51	206.54	160.89	170.56	158.12	146.05	130.09	-3.18	-1.24
Gas	219.46	255.33	285.02	367.43	391.27	371.24	376.75	1.55	1.65
Comb. renew/wastes	31.90	33.61	46.29	65.24	67.99	64.78	65.97	2.21	2.11
Geothermal	0.07	0.10	0.76	1.65	2.39	2.49	2.70	14.91	7.77
Solar, wind, tide	-	0.04	1.91	3.99	3.82	3.97	4.25	-	4.82
Electricity	131.82	175.98	238.31	300.66	339.73	340.03	347.48	3.54	2.24
Heat	11.07	19.38	26.87	28.23	21.42	21.18	20.37	5.35	-1.62
Comm & public services	**405.47**	**416.59**	**500.55**	**610.98**	**663.54**	**659.29**	**660.30**	**1.25**	**1.64**
Coal and peat	24.34	26.26	22.83	4.35	5.90	5.34	5.29	-0.38	-8.24
Oil	185.43	149.36	119.32	112.78	110.87	98.78	86.17	-2.56	-1.90
Gas	104.05	113.78	144.59	187.13	198.96	196.39	202.27	1.95	1.99
Comb. renew/waste	1.16	1.54	0.52	3.73	6.01	6.35	6.59	-4.63	16.14
Geothermal	-	-	0.19	0.72	0.98	1.01	1.03	-	10.42
Solar, wind, tide	-	-	0.09	0.11	0.16	0.17	0.30	-	7.24
Electricity	89.28	122.44	204.79	291.10	330.35	340.31	347.72	5.01	3.16
Heat	1.21	3.21	8.23	11.07	10.30	10.94	10.94	11.96	1.69
Non-energy use	**311.38**	**334.04**	**398.79**	**510.73**	**539.50**	**544.25**	**544.82**	**1.47**	**1.85**
Coal and peat	4.42	3.27	3.11	2.06	2.66	2.68	3.52	-2.04	0.72
Oil	299.79	309.21	349.17	454.64	489.70	495.53	494.56	0.90	2.07
Gas	7.18	21.56	46.51	54.03	47.14	46.04	46.74	11.62	0.03

Source: *IEA/OECD Energy Balances of OECD Countries*

(1) Total Final Consumption (TFC) excludes use in transformation and energy sectors.

* Please refer to notes in *Principles and Definitions*.

IEA Total

5. COAL BALANCE*

(Mtce)

	1973	1980	1990	2000	2006	2007	2008e	Average annual percent change 73-90	90-07
Production	1166.8	1381.1	1511.6	1377.3	1440.8	1447.1	1457.1	1.5	-0.3
Imports	173.5	235.0	310.4	423.4	529.6	543.0	537.2	3.5	3.3
Exports	-158.7	-214.8	-284.9	-305.5	-332.1	-350.9	-371.1	3.5	1.2
Stock changes	20.5	-26.1	-21.0	58.2	-24.7	1.5	-10.1	x	x
Primary supply	**1202.2**	**1375.2**	**1516.1**	**1553.3**	**1613.6**	**1640.7**	**1613.2**	**1.4**	**0.5**
Statistical difference	**21.3**	**-19.3**	**4.9**	**5.4**	**-9.9**	**-18.6**	**..**	**x**	**x**
Total transformation	**-780.2**	**-974.7**	**-1173.3**	**-1344.7**	**-1392.8**	**-1410.9**	**..**	**2.4**	**1.1**
Electricity and heat gen.	-638.8	-850.0	-1068.0	-1249.9	-1307.9	-1327.6	..	3.1	1.3
Main activity producers (1)	*-617.7*	*-786.5*	*-1000.7*	*-1196.9*	*-1263.2*	*-1283.1*	*..*	*2.9*	*1.5*
Autoproducers	*-21.1*	*-63.6*	*-67.3*	*-53.0*	*-44.8*	*-44.5*	*..*	*7.1*	*-2.4*
Gas works	-12.0	-8.6	-6.4	-3.6	-3.7	-3.3	..	-3.7	-3.8
Coal transformation(2)	-129.4	-116.1	-99.0	-91.2	-81.2	-80.0	..	-1.6	-1.2
BKB plants	*2.2*	*1.4*	*-1.0*	*-0.3*	*-0.5*	*-0.4*	*..*	*-*	*-5.4*
Blast furnaces	*-93.2*	*-79.5*	*-74.1*	*-75.9*	*-70.4*	*-72.3*	*..*	*-1.3*	*-0.1*
Coke ovens	*-37.6*	*-38.1*	*-19.3*	*-15.0*	*-13.9*	*-12.6*	*..*	*-3.9*	*-2.5*
Patent fuel plants	*-0.8*	*0.1*	*-4.6*	*-0.0*	*3.6*	*5.3*	*..*	*11.2*	*-*
Other transformation(3)	-	-	-	0.0	0.0	0.0	..	-	-
Own use	**-33.7**	**-26.7**	**-21.0**	**-19.0**	**-17.7**	**-20.2**	**..**	**-2.7**	**-0.2**
Distribution losses	**-3.3**	**-1.5**	**-0.8**	**-1.1**	**-1.4**	**-1.5**	**..**	**x**	**x**
Final consumption(4)	**406.2**	**353.0**	**325.8**	**194.0**	**191.8**	**189.5**	**..**	**-1.3**	**-3.1**
Industry sector(5)	254.2	224.2	223.3	166.1	163.1	161.6	..	-0.8	-1.9
Iron and steel	*131.3*	*103.8*	*80.0*	*60.2*	*55.6*	*53.5*	*..*	*-2.9*	*-2.3*
Chemical	*26.4*	*24.7*	*27.9*	*18.0*	*16.5*	*15.4*	*..*	*0.3*	*-3.4*
Non-metallic minerals	*20.3*	*32.1*	*41.1*	*35.5*	*31.1*	*32.5*	*..*	*4.2*	*-1.4*
Paper, pulp and print	*11.6*	*11.2*	*16.1*	*8.1*	*11.1*	*10.6*	*..*	*2.0*	*-2.4*
Transport sector(6)	10.3	3.6	0.4	0.1	0.1	0.1	..	-17.4	-6.5
Other sectors(7)	137.3	121.9	98.9	25.7	25.9	24.3	..	-1.9	-7.9
Comm. and pub. services	*24.3*	*26.3*	*22.8*	*4.3*	*5.3*	*5.3*	*..*	*-0.4*	*-8.2*
Residential	*95.3*	*83.5*	*63.9*	*19.4*	*18.6*	*17.3*	*..*	*-2.3*	*-7.4*
Non-energy use	4.4	3.3	3.1	2.1	2.7	3.5	..	-2.0	0.7

Source: *IEA/OECD Energy Balances of OECD Countries*

(1) Main activity electricity and heat generation includes district heating.

(2) Coal transformation refers to the transformation of coal and peat to secondary and tertiary products (mainly coke, briquettes, coke oven gas and blast furnace gas).

(3) Other transformation includes liquefaction and non-specified transformation.

(4) Final Consumption includes non-energy use and energy use (industry, transport and other sectors).

(5) Please refer to notes in *Principles and Definitions* for detailed explanation.

(6) Transport sector includes rail and inland waterways.

(7) Other sectors includes commercial and public services, agriculture, and residential.

* "Coal" refers to all types of coal, primary (anthracite, coking coal, other bituminous coal, sub-bituminous coal, lignite/brown coal, peat) and derived fuels (including patent fuel, BKB/peat briquettes, coke oven coke, gas coke, coal tar, coke oven gas, gas works gas, blast furnace gas and oxygen steel furnace gas). Quantities have been converted to Mtce using calorific values reported by the respective countries. Please refer to notes in *Principles and Definitions*.

IEA Total

6. USE OF COAL FOR SELECTED END-USES*

(million tonnes)

	1978	1980	1990	2000	2005	2006	2007	Average annual percent change 78-90	90-07
Steam coal	**913.64**	**1024.52**	**1193.41**	**1357.69**	**1483.52**	**1490.24**	**1520.00**	**2.25**	**1.43**
Total electricity and heat	701.37	809.95	1001.32	1224.30	1215.54	1245.35	1237.22	3.01	1.25
Main activity producers	*651.67*	*758.04*	*953.47*	*1191.33*	*1188.75*	*1219.82*	*1211.35*	*3.22*	*1.42*
Autoproducers	*49.70*	*51.90*	*47.85*	*32.97*	*26.78*	*25.54*	*25.87*	*-0.32*	*-3.55*
Patent fuel/BKB plants	25.21	26.39	22.83	2.06	122.25	96.99	130.12	-0.82	10.78
Coke ovens	2.40	2.25	5.97	11.46	11.65	11.62	12.57	7.88	4.47
Blast furnace inputs	0.01	0.01	4.41	10.46	9.74	10.29	10.13	75.96	5.02
Gas manufacture	1.83	1.61	0.38	-	-	-	-	-12.22	-
Industry sector	92.99	101.62	115.59	99.16	94.62	98.71	100.69	1.83	-0.81
Iron and steel	*9.59*	*8.42*	*7.09*	*7.26*	*9.06*	*9.46*	*9.34*	*-2.49*	*1.63*
Chemical	*13.82*	*17.07*	*22.51*	*17.38*	*14.62*	*14.64*	*14.16*	*4.15*	*-2.69*
Non-metallic minerals	*27.16*	*33.86*	*41.34*	*36.28*	*31.32*	*31.65*	*33.42*	*3.56*	*-1.24*
Paper, pulp and print	*9.02*	*9.62*	*15.77*	*8.52*	*11.35*	*11.68*	*11.38*	*4.77*	*-1.90*
Other industry	*33.41*	*32.65*	*28.89*	*29.72*	*28.26*	*31.29*	*32.39*	*-1.20*	*0.67*
Res, comm & pub serv[(1)]	57.64	55.46	33.37	17.45	17.25	17.27	17.39	-4.45	-3.76
Non-energy use	0.08	0.11	0.33	0.36	0.68	0.52	0.72	12.80	4.70
Coking coal	**288.75**	**304.78**	**252.55**	**204.54**	**189.76**	**193.61**	**197.29**	**-1.11**	**-1.44**
Total electricity and heat	7.14	10.83	18.23	13.37	12.70	12.20	13.48	8.12	-1.76
Main activity producers	*6.19*	*9.59*	*14.32*	*10.17*	*10.73*	*9.95*	*11.40*	*7.23*	*-1.33*
Autoproducers	*0.95*	*1.25*	*3.91*	*3.20*	*1.97*	*2.25*	*2.08*	*12.52*	*-3.64*
Patent fuel/BKB plants	-	-	-	-	2.81	2.26	2.37	-	-
Coke ovens	271.50	285.85	225.18	170.35	156.05	160.16	159.45	-1.55	-2.01
Blast furnace inputs	-	0.28	6.71	15.81	18.75	19.03	21.28	-	7.03
Gas manufacture	6.91	6.33	0.26	-	-	-	-	-23.92	-
Industry sector	0.26	0.25	2.13	2.57	0.78	0.71	0.42	19.18	-9.15
Iron and steel	*0.07*	*0.01*	*1.63*	*0.18*	*0.21*	*0.49*	*0.19*	*30.01*	*-11.78*
Chemical	*0.01*	*0.01*	*-*	*0.00*	*-*	*-*	*-*	*-*	*-*
Non-metallic minerals	*0.00*	*0.01*	*-*	*0.00*	*-*	*-*	*0.01*	*-*	*-*
Paper, pulp and print	*-*	*-*	*-*	*-*	*-*	*-*	*-*	*-*	*-*
Other industry	*0.18*	*0.21*	*0.49*	*2.39*	*0.57*	*0.22*	*0.21*	*8.98*	*-4.85*
Res, comm & pub serv[(1)]	0.28	0.33	0.16	0.10	0.13	0.11	0.08	-4.53	-4.21
Non-energy use	-	-	-	0.23	0.22	0.23	0.23	-	-
Brown coal/lignite	**666.47**	**700.63**	**825.39**	**629.83**	**629.47**	**621.22**	**630.26**	**1.80**	**-1.57**
Total electricity and heat	427.96	456.10	613.94	584.84	588.70	575.08	587.85	3.05	-0.26
Main activity producers	*410.91*	*435.18*	*584.14*	*576.18*	*580.57*	*567.03*	*582.36*	*2.97*	*-0.02*
Autoproducers	*17.05*	*20.91*	*29.80*	*8.66*	*8.12*	*8.05*	*5.48*	*4.76*	*-9.48*
Patent fuel/BKB plants	137.19	142.64	110.75	13.13	13.33	13.73	12.88	-1.77	-11.89
Coke ovens	-	-	-	-	-	-	-	-	-
Gas manufacture	6.40	6.34	8.49	7.02	6.88	7.10	6.82	2.38	-1.28
Industry sector	51.14	50.46	45.10	17.14	10.66	11.70	10.77	-1.04	-8.08
Iron and steel	*1.12*	*1.44*	*2.25*	*1.00*	*0.89*	*0.84*	*0.80*	*6.02*	*-5.93*
Chemical	*14.39*	*15.72*	*11.02*	*3.52*	*3.43*	*3.41*	*2.04*	*-2.20*	*-9.46*
Non-metallic minerals	*1.65*	*1.67*	*2.12*	*0.90*	*0.56*	*0.68*	*0.87*	*2.10*	*-5.11*
Paper, pulp and print	*4.51*	*4.63*	*2.09*	*0.58*	*0.51*	*0.43*	*0.45*	*-6.21*	*-8.68*
Other industry	*29.47*	*26.99*	*27.63*	*11.14*	*5.28*	*6.34*	*6.62*	*-0.54*	*-8.06*
Res, comm & pub serv[(1)]	28.94	37.01	41.60	8.82	8.07	9.33	9.54	3.07	-8.30
Non-energy use	0.83	0.82	0.67	0.16	0.21	0.20	0.20	-1.78	-6.86

Source: *IEA/OECD Energy Statistics of OECD Countries*

(1) Residential, commercial and public services.

* Please refer to notes in *Principles and Definitions*.

IEA Total

7. FUEL PRICES TO END USERS*

	1978[1]	1980	1990	2000	2004	2005	2006	2007	2008
				(US dollars / tce)					
For electricity generation									
Steam coal	..	..	..	..	..	..	..	..	..
Heavy fuel oil	..	..	..	..	..	..	..	..	..
Natural gas	..	..	..	..	..	..	..	..	..
For industry									
Steam coal	..	..	..	..	..	..	..	..	..
Coking coal	..	..	..	..	..	..	..	..	..
High sulphur fuel oil	..	..	..	..	..	..	..	..	..
Low sulphur fuel oil	..	..	..	..	..	..	..	..	..
Natural gas	..	..	..	..	..	..	..	..	..
				(US dollars / unit)[2]					
For electricity generation									
Steam coal	..	..	..	..	..	..	..	..	..
Heavy fuel oil	..	..	..	..	..	..	..	..	..
Natural gas	..	..	..	..	..	..	..	..	..
For industry									
Steam coal	..	..	..	..	..	..	..	..	..
Coking coal	..	..	..	..	..	..	..	..	..
High sulphur fuel oil	..	..	..	..	..	..	..	..	..
Low sulphur fuel oil	..	..	..	..	..	..	..	..	..
Natural gas	..	..	..	..	..	..	..	..	..

Source: *IEA/OECD Energy Prices & Taxes*

(1) Earliest year for which split by coal type is available.

(2) For steam coal, coking coal and heavy fuel oil per metric tonne; for natural gas per 10^7 kilocalories GCV.

* Please refer to notes in *Principles and Definitions*.

8. COAL TRADE BY TYPE OF COAL*

(Mtce)

	1973	1980	1990	2000	2004	2005	2006	2007	2008e
Total imports	**173.50**	**235.03**	**310.36**	**423.36**	**511.68**	**496.24**	**529.59**	**542.99**	**537.22**
Hard coal	144.44	208.89	289.32	397.16	482.44	471.88	505.31	518.52	510.29
Coking coal	*..*	*124.90*	*139.42*	*134.79*	*136.49*	*132.43*	*136.15*	*140.03*	*140.50*
Steam coal	*..*	*83.99*	*149.90*	*262.38*	*345.96*	*339.45*	*369.16*	*378.49*	*369.79*
Brown coal / lignite	5.30	5.73	7.18	5.35	5.58	5.72	5.06	5.64	7.86
Peat	-	-	0.10	0.10	0.16	0.13	0.11	0.16	0.16
Coal products[1]	23.75	20.40	13.76	20.75	23.49	18.51	19.11	18.67	18.92
Total exports	**158.67**	**214.84**	**284.90**	**305.54**	**315.11**	**325.92**	**332.06**	**350.87**	**371.11**
Hard coal	131.78	187.26	262.96	289.21	298.74	310.87	313.60	333.41	352.84
Coking coal	*..*	*124.91*	*160.15*	*162.06*	*159.18*	*176.06*	*171.14*	*185.71*	*198.86*
Steam coal	*..*	*62.34*	*102.82*	*127.15*	*139.56*	*134.81*	*142.46*	*147.71*	*153.97*
Brown coal / lignite	1.44	4.58	4.79	3.84	2.66	2.88	2.84	2.83	4.34
Peat	-	0.00	0.12	0.06	0.04	0.05	0.04	0.02	0.01
Coal products[1]	25.46	23.00	17.03	12.43	13.68	12.13	15.59	14.61	13.92

Source: *IEA/OECD Energy Balances of OECD Countries, IEA/OECD Energy Statistics of OECD Countries*

(1) Coal products includes products derived from coal, for example: coke, coal tar, briquettes, patent fuels.

* Please refer to notes in *Principles and Definitions*.

IEA Total

9. HARD COAL IMPORTS BY ORIGIN*

(thousand tonnes)

	1978[1]	1980	1990	2000	2004	2005	2006	2007	2008e
Hard Coal	**164431**	**216985**	**304748**	**439237**	**534088**	**531495**	**566038**	**585357**	**575611**
Coking Coal	**98417**	**121819**	**136252**	**138556**	**140345**	**135915**	**139585**	**143749**	**144138**
Australia	29796	32520	49608	67156	68654	65876	68690	73429	66470
Canada	11598	11811	16128	17972	14050	15011	15484	17796	18740
Czech Republic	909	1072	774	3388	3656	3366	4562	4678	3891
Germany	10948	8326	3141	2	108	289	3	-	1
Poland	6619	5055	2570	3118	2949	3246	4053	3246	3400
United Kingdom	79	66	52	-	5	6	-	-	-
United States	24605	48276	43199	24037	18098	19348	17773	18651	23443
Other OECD	116	252	305	391	407	433	384	275	610
China, People's Rep.	420	979	2803	9557	14641	10111	9194	5967	4114
Colombia	-	-	177	140	287	202	222	163	348
Indonesia	-	-	714	6327	9201	9850	10622	10659	17211
South Africa	2566	3347	3213	991	456	320	90	284	494
Former USSR[2]	5249	4890	-	-	-	-	-	-	-
Russia[3]	-	-	*8569*	*4825*	*6058*	*6326*	*6689*	*6386*	*3686*
Other Former USSR[3]	-	-	-	*26*	*613*	*548*	*713*	*648*	*82*
Venezuela	-	-	-	454	969	872	815	1059	1023
Vietnam	-	-	-	80	-	-	40	-	75
Non-specified/other	5512	5225	4999	92	193	111	251	508	550
Steam coal	**66014**	**95166**	**168496**	**300681**	**393743**	**395580**	**426453**	**441608**	**431473**
Australia	4556	9137	34664	76734	94863	95587	94805	100622	120150
Canada	970	1099	9885	10111	5156	6124	7130	9697	4532
Czech Republic	243	255	327	2393	1801	1004	1214	1368	2143
Germany	6716	4145	2124	431	540	533	435	365	507
Poland	16292	17246	10802	17721	15278	14840	13968	9508	6414
United Kingdom	2285	4184	2428	589	352	298	177	262	390
United States	9296	24092	35842	21162	14735	9943	12614	13467	19176
Other OECD	980	1406	3686	4289	3269	3278	3377	5212	6231
China, People's Rep.	534	1503	6287	34740	42637	35029	31368	30242	29942
Colombia	-	-	10450	29224	41648	47850	53664	57688	55160
Indonesia	-	9	1000	23066	47184	52903	66637	69054	56389
South Africa	11967	21112	33156	46319	55933	53092	55514	49170	38745
Former USSR[2]	3012	2638	-	-	-	-	-	-	-
Russia[3]	-	-	*9517*	*20815*	*51967*	*59659*	*69221*	*73545*	*75029*
Other Former USSR[3]	-	-	-	*894*	*2430*	*3183*	*2696*	*2237*	*3323*
Venezuela	-	-	1752	4985	6127	5108	5343	5036	3247
Vietnam	-	-	150	1573	3558	2699	3282	3199	2820
Non-specified/other	9163	8340	6426	5635	6265	4450	5008	10936	7275

Source: IEA/OECD Coal Statistics

(1) Earliest year for which split by coal type is available.

(2) If no detail.

(3) Data for former republics are not available separately for some OECD member countries.

* Please refer to notes in *Principles and Definitions*.

IEA Total

10. COKING COAL EXPORTS BY DESTINATION*

(thousand tonnes)

	1978[1]	1980	1990	2000	2004	2005	2006	2007	2008e
Total Exports	**107072**	**126266**	**162286**	**168603**	**167676**	**185601**	**180273**	**195578**	**209638**
Exports to:									
Total OECD	**90281**	**111797**	**122399**	**127377**	**117684**	**130728**	**124623**	**128451**	**138136**
Australia	-	-	-	122	-	-	-	-	-
Austria	1283	1131	1351	1844	1713	1753	1547	1583	1524
Belgium	3860	4257	7450	4551	2733	3429	3594	3363	4713
Canada	5410	5694	4018	3501	3431	4034	4134	3299	3266
Czech Republic	-	-	-	214	462	523	944	1032	877
Denmark	-	144	50	-	20	-	-	-	228
Finland	-	47	330	1005	1090	1181	1172	719	970
France	8972	9802	8494	6629	5657	5535	5061	5645	5532
Germany	714	1916	877	4891	3862	4373	4658	2805	4029
Greece	245	511	-	-	553	-	-	-	276
Hungary	-	-	-	1075	385	449	674	580	499
Iceland	-	6	28	48	82	57	19	30	50
Ireland	-	198	3	4	5	15	1	-	68
Italy	8393	9863	8734	7381	4607	6494	6507	6595	5948
Japan	43380	56488	55410	52798	49895	54153	52688	57550	60079
Korea	2503	4260	7852	15305	13986	17931	12277	11482	14405
Luxembourg	286	1	-	-	-	-	-	-	-
Mexico	10	28	3	1406	1704	1582	2125	1565	2193
Netherlands	3347	3828	5273	4745	7461	8020	9336	10034	9950
New Zealand	-	-	-	-	-	-	-	-	-
Norway	193	332	99	95	32	18	-	19	78
Poland	-	-	-	538	572	592	1367	2264	2117
Portugal	387	365	805	198	88	-	-	-	-
Slovak Republic	5126	4345	3681	1570	2308	1909	2353	2820	2538
Spain	3257	3517	4499	4163	3742	4218	3109	3323	3871
Sweden	840	1197	1568	2128	1777	1690	1596	1741	1825
Switzerland	18	99	3	46	22	-	-	-	257
Turkey	498	796	2869	3954	3139	3599	3357	3826	4504
United Kingdom	1402	2972	8230	8626	6449	7366	6606	6708	6772
United States	157	-	772	540	1909	1807	1498	1468	1567
Total Non-OECD	**8840**	**13350**	**30609**	**37791**	**43729**	**50743**	**46195**	**55935**	**56783**
Brazil	2121	3725	8867	10695	8779	8376	9288	10870	10769
Chinese Taipei	1186	1196	3155	7713	6749	8365	8937	8036	6463
Egypt	218	1021	1009	1211	1157	1414	1392	1951	1737
Hong Kong, China	-	-	-	-	-	-	-	-	-
India	232	490	5179	10795	14304	18271	17081	20334	25668
Israel	-	-	50	56	-	129	194	273	281
Romania	1348	1120	3915	505	311	593	146	543	1998
Oth. Africa & Mid. East	521	808	1068	1825	2735	3184	881	2789	2664
Other Latin America	951	1808	2621	1869	2050	2381	2513	2692	1895
Other Asia & Oceania	69	168	1823	1316	6447	6363	3937	4059	2695
Other Europe and FSU	2194	3014	2922	1806	1197	1667	1826	4388	2613
Non-Specified/Other	**7951**	**1119**	**9278**	**3435**	**6263**	**4130**	**9455**	**11192**	**14719**

Source: IEA/OECD Coal Statistics

(1) Earliest year for which split by coal type is available.

* Please refer to notes in *Principles and Definitions*.

IEA Total

11. STEAM COAL EXPORTS BY DESTINATION*

(thousand tonnes)

	1978[1]	1980	1990	2000	2004	2005	2006	2007	2008e
Total Exports	**49931**	**70198**	**112918**	**143989**	**159180**	**155267**	**161875**	**168752**	**175420**
Exports to:									
Total OECD	**40497**	**59836**	**93309**	**120304**	**134568**	**128797**	**135249**	**134884**	**144332**
Australia	-	-	2	-	-	-	-	-	-
Austria	275	438	1216	1312	1622	1201	1316	1360	908
Belgium	2660	3859	3778	1541	1258	1293	845	770	1465
Canada	8782	10136	10083	13524	12681	13644	13951	13418	17553
Czech Republic	274	2302	2282	864	783	719	946	1377	892
Denmark	4620	6260	5817	2594	2262	1220	1371	1053	766
Finland	4095	3925	2815	1228	1272	963	927	450	313
France	6755	8815	3859	3411	3274	3613	3644	3438	3841
Germany	4157	6012	5231	15020	16814	13088	16278	18035	11178
Greece	1	5	-	112	69	144	133	172	142
Hungary	-	-	-	279	258	300	264	158	104
Iceland	-	12	33	7	16	45	88	91	59
Ireland	540	931	2248	1208	1626	1163	509	847	1060
Italy	1552	2166	5051	1430	727	409	155	941	1864
Japan	1732	5007	30637	51874	60676	58536	60978	60912	69266
Korea	356	563	4352	13730	16886	18719	21157	16041	20736
Luxembourg	52	96	3	93	42	38	30	96	74
Mexico	-	-	188	373	2367	4579	4918	5218	1350
Netherlands	1285	3596	9559	3556	2698	2240	1506	3943	4264
New Zealand	-	-	1	16	106	56	82	85	80
Norway	167	108	369	671	592	496	417	387	344
Poland	-	-	1	15	7	82	17	22	391
Portugal	15	33	1572	348	781	580	411	486	645
Slovak Republic	237	322	-	286	294	257	206	169	143
Spain	21	983	762	2327	1559	729	1464	1189	1688
Sweden	244	289	1034	253	453	443	366	404	483
Switzerland	90	318	81	20	8	8	17	2	250
Turkey	79	-	15	110	67	178	-	1	34
United Kingdom	1081	3312	2095	3866	4436	3668	2866	3567	4232
United States	1427	348	225	236	934	386	387	252	207
Total Non-OECD	**384**	**3006**	**14604**	**23103**	**23803**	**26268**	**26316**	**33864**	**30840**
Brazil	11	110	345	22	883	726	231	206	435
Chinese Taipei	76	1521	6866	10034	9896	14330	13208	16235	18559
Egypt	-	-	1	2	1	4	17	16	22
Hong Kong, China	-	-	2551	421	1202	374	77	14	-
India	-	-	48	2469	2105	1679	1567	746	734
Israel	-	-	1058	2623	1716	1170	321	679	505
Romania	-	462	49	-	135	844	931	1151	73
Oth. Africa & Mid. East	32	89	1057	828	859	499	192	2487	1738
Other Latin America	82	576	642	1438	1358	681	1206	1464	1353
Other Asia & Oceania	129	166	1624	4321	5354	5765	8357	10716	7035
Other Europe and FSU	54	82	363	945	294	196	209	150	386
Non-Specified/Other	**9050**	**7356**	**5005**	**582**	**809**	**202**	**310**	**4**	**248**

Source: IEA/OECD Coal Statistics

(1) Earliest year for which split by coal type is available.

* Please refer to notes in *Principles and Definitions*.

IEA North America*

Chart 1: TPES by fuel (Mtce)

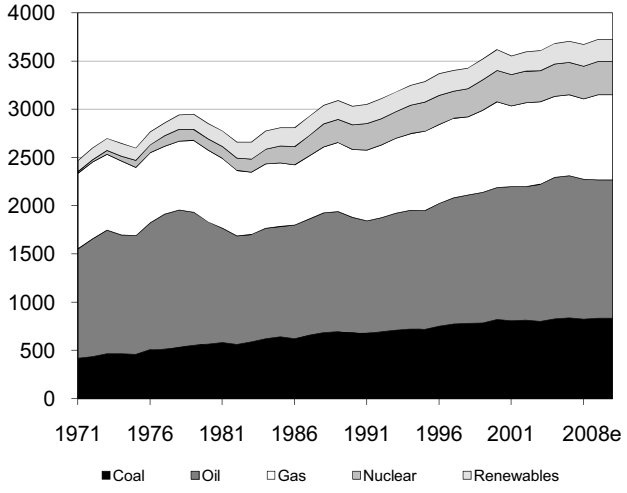


Chart 2: Coal supply indicators (1971 = 100)

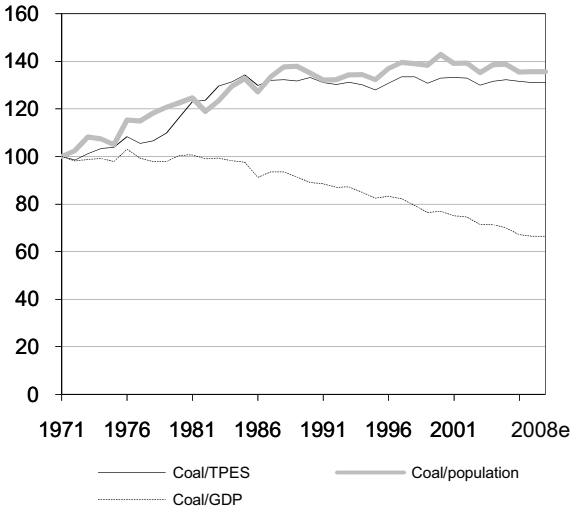


Chart 3: Primary coal supply (Mtce)

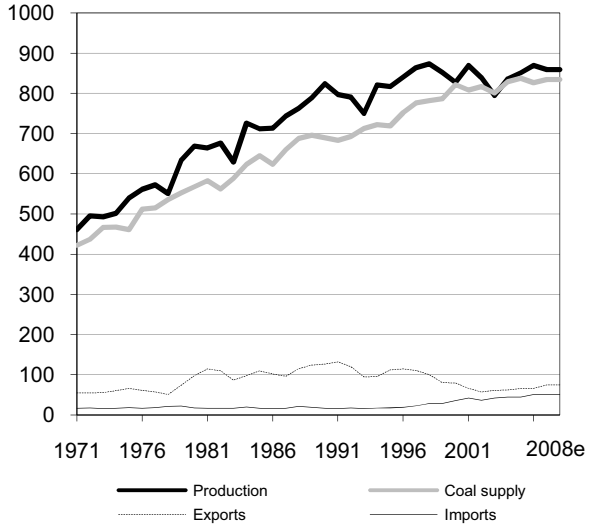


Chart 4: Coal consumption (Mtce)

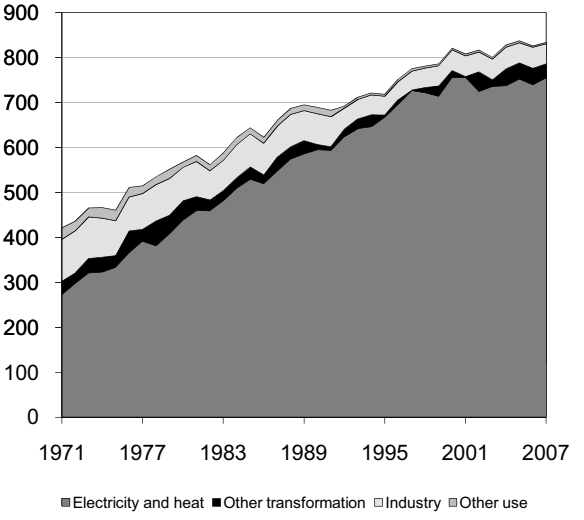


Chart 5: Electricity generation by fuel (TWh)

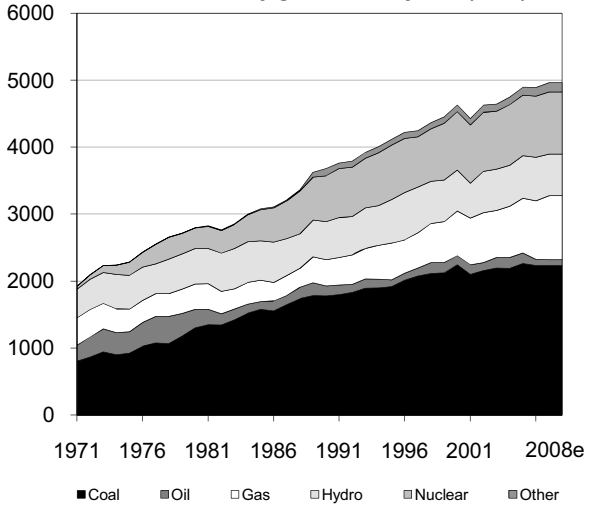
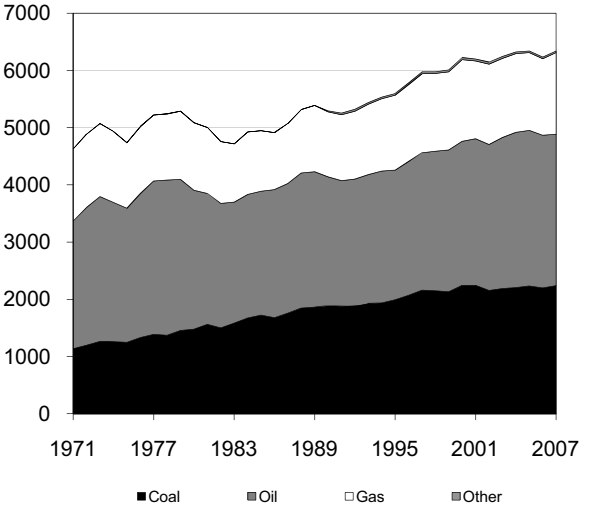


Chart 6: CO_2 emissions by fuel (Mt CO_2)



*Please refer to notes in *Principles and Definitions* . Peat is included in coal for all charts.

IEA North America

1. TOTAL PRIMARY ENERGY SUPPLY (TPES) BY FUEL*

	1973	1980	1990	2000	2006	2007	2008e	Average annual percent change 73-90	90-07
TPES (Mtce)	**2698.98**	**2853.25**	**3031.21**	**3620.64**	**3674.29**	**3727.59**	**3663.52**	**0.69**	**1.22**
Coal and peat	466.16	567.80	689.50	821.79	826.25	834.61	826.59	2.33	1.13
Oil	1281.25	1264.93	1190.51	1368.53	1450.76	1434.50	1349.63	-0.43	1.10
Gas	788.26	746.19	704.23	888.31	830.89	882.05	902.93	-0.66	1.33
Comb. renew/waste	64.73	88.77	100.75	121.30	128.68	134.21	136.76	2.64	1.70
Nuclear	39.01	113.96	255.40	324.09	340.34	346.28	346.88	11.69	1.81
Hydro	56.52	65.11	70.01	75.15	79.51	75.93	76.71	1.27	0.48
Geothermal	3.01	6.57	20.14	18.70	12.34	12.55	14.87	11.83	-2.74
Solar, wind, tide	-	-	0.46	2.98	5.60	6.74	9.10	-	17.08
Net electricity trade[1]	0.03	-0.06	0.20	-0.21	-0.09	0.73	0.06	11.90	7.90
Heat[2]	-	-	-	-	-	-	-	-	-

Source: *IEA/OECD Energy Balances of OECD Countries*

(1) Net trade between OECD and non-OECD countries.

(2) Ambient heat from heat pumps used in the transformation sector.

2. ENERGY SUPPLY, GDP AND POPULATION*

	1973	1980	1990	2000	2006	2007	2008e	Average annual percent change 73-90	90-07
GDP (2000 bil. US$)	4630	5540	7599	10490	12087	12337	12470	2.96	2.89
TPES/GDP[1]	0.58	0.52	0.40	0.35	0.30	0.30	0.29	-2.21	-1.62
Population (millions)	234.4	252.2	277.9	313.1	331.8	335.1	338.3	1.01	1.11
TPES/population[1]	11.51	11.31	10.91	11.56	11.07	11.13	10.83	-0.32	0.12
TPES/GDP[2]	168.9	149.2	115.6	100.0	88.1	87.5	85.1	-2.21	-1.62
Coal and peat supply/GDP[2]	128.5	130.8	115.8	100.0	87.3	86.4	84.6	-0.61	-1.71
Elec. consumption/GDP[2]	107.4	110.8	105.8	100.0	92.0	92.5	..	-0.09	-0.79
Elec. generation (TWh)	2236	2801	3685	4631	4890	4963	4962	2.98	1.77
Industrial production[2]	..	..	..	..	..	..	..	-	-

Source: *IEA/OECD Energy Balances of OECD Countries* , *OECD Main Economic Indicators*

(1) TPES/GDP in units of tce/2000 thousand US$, TPES/population in units of tce/capita.

(2) As index, 2000 = 100

3. COAL AND PEAT PRODUCTION BY TYPE*

	1978[1]	1980	1990	2000	2006	2007	2008e	Average annual percent change 78-90	90-07
Mtce:									
Coking coal	106.78	132.98	121.63	78.90	64.71	68.83	78.37	1.09	-3.29
Steam coal	421.01	505.67	646.92	690.82	747.68	735.75	747.10	3.64	0.76
Brown coal	23.37	30.53	55.94	57.79	57.77	54.97	53.32	7.54	-0.10
Peat	-	-	-	-	-	-	-	-	-
Mt:									
Coking coal	105.98	131.87	120.92	82.45	70.60	75.30	85.31	1.10	-2.75
Steam coal	487.96	598.48	770.40	845.33	950.77	939.21	954.45	3.88	1.17
Brown coal	44.51	59.30	110.57	112.98	112.53	106.93	103.57	7.88	-0.20
Peat	-	-	-	-	-	-	-	-	-

Source: *IEA/OECD Energy Balances of OECD Countries, IEA/OECD Energy Statistics of OECD Countries*

(1) Earliest year for which split by coal type is available.

* Please refer to notes in *Principles and Definitions* .

IEA North America

4. FINAL CONSUMPTION OF ENERGY BY FUEL*

(Mtce)

	1973	1980	1990	2000	2005	2006	2007	Average annual percent change 73-90	90-07
TFC[1]	**2066.58**	**2094.79**	**2073.36**	**2478.08**	**2539.37**	**2523.66**	**2561.16**	**0.02**	**1.25**
Coal and peat	112.81	86.42	82.11	49.80	48.66	49.29	48.25	-1.85	-3.08
Oil	1098.78	1098.76	1074.40	1248.86	1344.15	1336.15	1323.62	-0.13	1.23
Gas	558.62	533.76	494.70	590.42	526.56	506.84	538.08	-0.71	0.50
Comb. renew/wastes	64.35	88.28	42.70	88.34	91.55	98.53	104.00	-2.38	5.38
Geothermal	-	-	0.48	0.74	1.22	1.32	1.48	-	6.85
Solar, wind, tide	-	-	-	2.06	1.76	1.83	1.89	-	-
Electricity	231.88	286.10	374.92	489.08	519.42	518.31	532.36	2.87	2.08
Heat	0.14	1.47	4.05	8.77	6.06	11.39	11.49	22.06	6.33
of which:									
Total industry	**627.58**	**624.92**	**470.95**	**551.38**	**488.38**	**497.98**	**499.10**	**-1.67**	**0.34**
Coal and peat	92.64	74.78	67.93	46.13	44.45	46.55	45.14	-1.81	-2.38
Oil	123.24	144.40	72.91	45.88	62.83	59.30	53.35	-3.04	-1.82
Gas	270.24	239.61	181.05	224.56	179.60	182.55	191.22	-2.33	0.32
Comb. renew/wastes	48.97	56.35	21.06	62.25	56.92	62.68	61.04	-4.84	6.46
Geothermal	-	-	-	0.16	0.15	0.16	0.17	-	-
Solar, wind, tide	-	-	-	-	-	-	-	-	-
Electricity	92.35	108.34	127.09	165.29	139.49	137.62	139.04	1.90	0.53
Heat	0.14	1.43	0.90	7.11	4.92	9.13	9.14	11.73	14.61
Total transport	**639.81**	**670.84**	**758.12**	**914.83**	**977.29**	**982.61**	**990.65**	**1.00**	**1.59**
Coal and peat	0.18	-	-	-	-	-	-	-	-
Oil	614.65	646.77	731.07	880.51	937.70	938.70	939.56	1.03	1.49
Gas	24.06	23.41	26.15	28.48	26.37	26.09	27.52	0.49	0.30
Comb. renew/wastes	-	-	-	4.74	11.77	16.36	22.07	-	-
Electricity	0.92	0.66	0.91	1.10	1.45	1.46	1.50	-0.10	3.00
Residential	**375.63**	**348.39**	**340.99**	**421.34**	**432.82**	**404.94**	**427.59**	**-0.57**	**1.34**
Coal and peat	4.77	2.35	2.17	1.99	0.05	0.06	0.05	-4.54	-19.79
Oil	120.29	74.47	44.32	50.22	44.51	37.89	39.23	-5.70	-0.72
Gas	170.29	170.28	162.73	185.84	180.73	164.42	178.22	-0.27	0.54
Comb. renew/wastes	2.73	2.73	2.30	17.44	19.65	15.98	17.35	-1.01	12.63
Geothermal	-	-	-	0.31	0.57	0.66	0.79	-	-
Solar, wind, tide	-	-	-	2.06	1.76	1.83	1.89	-	-
Electricity	77.55	98.57	129.47	163.48	185.54	184.10	190.06	3.06	2.28
Heat	-	-	0.00	-	0.00	0.00	0.00	-	4.16
Comm & public services	**236.58**	**229.78**	**258.52**	**314.99**	**330.69**	**324.30**	**336.09**	**0.52**	**1.56**
Coal and peat	4.87	2.63	3.41	1.30	2.98	2.17	2.41	-2.07	-2.03
Oil	78.65	52.80	36.26	32.05	36.12	32.97	32.48	-4.45	-0.65
Gas	94.03	96.74	99.39	119.98	113.86	107.50	114.32	0.33	0.83
Comb. renew/waste	-	-	-	1.77	2.94	3.09	3.01	-	-
Geothermal	-	-	-	0.27	0.49	0.50	0.52	-	-
Solar, wind, tide	-	-	-	-	-	-	-	-	-
Electricity	59.03	77.57	116.38	158.01	173.24	175.86	181.06	4.07	2.63
Heat	-	0.04	3.08	1.59	1.07	2.21	2.29	-	-1.73
Non-energy use	**137.18**	**162.28**	**191.52**	**247.17**	**262.61**	**265.21**	**259.33**	**1.98**	**1.80**
Coal and peat	-	0.18	0.47	0.38	0.56	0.49	0.57	-	1.24
Oil	137.18	158.76	166.39	216.07	236.65	239.07	232.65	1.14	1.99
Gas	-	3.33	24.67	30.73	25.39	25.65	26.12	-	0.34

Source: *IEA/OECD Energy Balances of OECD Countries*

(1) Total Final Consumption (TFC) excludes use in transformation and energy sectors.

* Please refer to notes in *Principles and Definitions*.

IEA North America

5. COAL BALANCE*

(Mtce)

	1973	1980	1990	2000	2006	2007	2008e	Average annual percent change 73-90	90-07
Production	492.9	669.2	824.5	827.5	870.2	859.5	878.8	3.1	0.2
Imports	16.0	16.9	16.6	35.3	50.7	50.6	47.6	0.2	6.8
Exports	-55.2	-97.9	-126.2	-79.9	-65.6	-74.5	-95.9	5.0	-3.0
Stock changes	12.5	-20.4	-25.4	38.9	-29.1	-1.0	-4.0	x	x
Primary supply	**466.2**	**567.8**	**689.5**	**821.8**	**826.3**	**834.6**	**826.6**	**2.3**	**1.1**
Statistical difference	**18.7**	**-10.9**	**12.2**	**7.3**	**-19.8**	**-16.2**	**..**	**x**	**x**
Total transformation	**-363.4**	**-466.8**	**-617.6**	**-777.2**	**-753.6**	**-766.6**	**..**	**3.2**	**1.3**
Electricity and heat gen.	-321.7	-438.7	-595.8	-756.2	-740.3	-755.6	..	3.7	1.4
Main activity producers (1)	*-321.7*	*-438.7*	*-589.5*	*-739.3*	*-733.8*	*-750.3*	*..*	*3.6*	*1.4*
Autoproducers	-	*-0.0*	*-6.2*	*-17.0*	*-6.5*	*-5.3*	*..*	-	*-0.9*
Gas works	-0.1	-	-2.7	-2.7	-2.9	-2.6	..	26.3	-0.2
Coal transformation(2)	-41.6	-28.2	-19.1	-18.2	-10.4	-8.3	..	-4.5	-4.8
BKB plants	-	-	-	-	-	-	..	-	-
Blast furnaces	*-27.7*	*-18.4*	*-12.9*	*-12.3*	*-10.1*	*-9.7*	*..*	*-4.4*	*-1.7*
Coke ovens	*-13.9*	*-9.8*	*-6.2*	*-5.9*	*-4.2*	*-4.4*	*..*	*-4.6*	*-2.0*
Patent fuel plants	-	-	-	-	*3.9*	*5.8*	*..*	-	-
Other transformation(3)	-	-	-	-	-	-	..	-	-
Own use	**-8.6**	**-3.6**	**-1.9**	**-2.1**	**-3.6**	**-3.5**	**..**	**-8.5**	**3.7**
Distribution losses	**-**	**-**	**-**	**-**	**-**	**-**	**..**	**x**	**x**
Final consumption(4)	**112.8**	**86.4**	**82.1**	**49.8**	**49.3**	**48.2**	**..**	**-1.9**	**-3.1**
Industry sector(5)	92.6	74.8	67.9	46.1	46.6	45.1	..	-1.8	-2.4
Iron and steel	*52.1*	*33.7*	*19.2*	*12.8*	*6.7*	*5.9*	*..*	*-5.7*	*-6.7*
Chemical	*11.9*	*11.2*	*12.4*	*9.3*	*7.4*	*7.3*	*..*	*0.2*	*-3.1*
Non-metallic minerals	*5.9*	*10.3*	*11.6*	*12.1*	*11.6*	*11.8*	*..*	*4.1*	*0.1*
Paper, pulp and print	*7.1*	*7.4*	*10.4*	*3.6*	*6.8*	*6.5*	*..*	*2.2*	*-2.7*
Transport sector(6)	0.2	-	-	-	-	-	..	-	-
Other sectors(7)	20.0	11.5	13.7	3.3	2.3	2.5	..	-2.2	-9.5
Comm. and pub. services	*4.9*	*2.6*	*3.4*	*1.3*	*2.2*	*2.4*	*..*	*-2.1*	*-2.0*
Residential	*4.8*	*2.4*	*2.2*	*2.0*	*0.1*	*0.1*	*..*	*-4.5*	*-19.8*
Non-energy use	-	0.2	0.5	0.4	0.5	0.6	..	-	1.2

Source: *IEA/OECD Energy Balances of OECD Countries*

(1) Main activity electricity and heat generation includes district heating.

(2) Coal transformation refers to the transformation of coal and peat to secondary and tertiary products (mainly coke, briquettes, coke oven gas and blast furnace gas).

(3) Other transformation includes liquefaction and non-specified transformation.

(4) Final Consumption includes non-energy use and energy use (industry, transport and other sectors).

(5) Please refer to notes in *Principles and Definitions* for detailed explanation.

(6) Transport sector includes rail and inland waterways.

(7) Other sectors includes commercial and public services, agriculture, and residential.

* "Coal" refers to all types of coal, primary (anthracite, coking coal, other bituminous coal, sub-bituminous coal, lignite/brown coal, peat) and derived fuels (including patent fuel, BKB/peat briquettes, coke oven coke, gas coke, coal tar, coke oven gas, gas works gas, blast furnace gas and oxygen steel furnace gas). Quantities have been converted to Mtce using calorific values reported by the respective countries. Please refer to notes in *Principles and Definitions*.

IEA North America

6. USE OF COAL FOR SELECTED END-USES*

(million tonnes)

	1978	1980	1990	2000	2005	2006	2007	Average annual percent change 78-90	90-07
Steam coal	**496.24**	**560.62**	**715.52**	**884.21**	**948.85**	**937.06**	**952.46**	**3.10**	**1.70**
Total electricity and heat	418.38	491.32	649.21	851.28	776.07	793.31	779.38	3.73	1.08
Main activity producers	*418.37*	*491.31*	*642.91*	*835.80*	*769.56*	*788.45*	*774.76*	*3.65*	*1.10*
Autoproducers	*0.01*	*0.01*	*6.29*	*15.48*	*6.51*	*4.85*	*4.62*	*66.36*	*-1.80*
Patent fuel/BKB plants	-	-	-	-	119.79	94.20	127.67	-	-
Coke ovens	-	-	-	-	-	-	-	-	-
Blast furnace inputs	-	-	0.18	2.50	1.25	1.41	1.55	-	13.39
Gas manufacture	-	-	-	-	-	-	-	-	-
Industry sector	46.04	46.33	53.39	37.51	37.49	38.89	37.67	1.24	-2.03
Iron and steel	*3.73*	*2.53*	*1.70*	*1.35*	*0.27*	*0.41*	*0.41*	*-6.36*	*-8.03*
Chemical	*10.34*	*12.72*	*14.26*	*10.51*	*7.23*	*7.50*	*7.38*	*2.71*	*-3.80*
Non-metallic minerals	*11.88*	*11.62*	*12.65*	*13.26*	*12.55*	*12.82*	*13.05*	*0.53*	*0.18*
Paper, pulp and print	*7.82*	*8.27*	*11.37*	*4.10*	*6.84*	*7.25*	*7.05*	*3.17*	*-2.77*
Other industry	*12.27*	*11.19*	*13.42*	*8.29*	*10.60*	*10.91*	*9.78*	*0.75*	*-1.84*
Res, comm & pub serv[(1)]	8.58	5.40	6.03	3.70	3.60	2.64	2.79	-2.90	-4.43
Non-energy use	-	0.02	0.26	0.33	0.53	0.44	0.53	-	4.28
Coking coal	**75.66**	**68.78**	**40.29**	**30.42**	**25.18**	**25.45**	**25.95**	**-5.12**	**-2.55**
Total electricity and heat	-	-	-	-	-	-	-	-	-
Main activity producers	-	-	-	-	-	-	-	-	-
Autoproducers	-	-	-	-	-	-	-	-	-
Patent fuel/BKB plants	-	-	-	-	2.81	2.26	2.37	-	-
Coke ovens	71.74	67.78	40.27	30.20	22.73	22.89	22.55	-4.70	-3.35
Blast furnace inputs	-	-	-	-	-	-	-	-	-
Gas manufacture	-	-	-	-	-	-	-	-	-
Industry sector	-	-	-	-	-	-	-	-	-
Iron and steel	-	-	-	-	-	-	-	-	-
Chemical	-	-	-	-	-	-	-	-	-
Non-metallic minerals	-	-	-	-	-	-	-	-	-
Paper, pulp and print	-	-	-	-	-	-	-	-	-
Other industry	-	-	-	-	-	-	-	-	-
Res, comm & pub serv[(1)]	-	-	-	-	-	-	-	-	-
Non-energy use	-	-	-	-	-	-	-	-	-
Brown coal/lignite	**43.94**	**58.04**	**109.28**	**114.73**	**115.90**	**112.49**	**109.63**	**7.89**	**0.02**
Total electricity and heat	41.10	53.39	101.99	110.09	109.76	103.89	102.79	7.87	0.05
Main activity producers	*41.10*	*53.39*	*100.89*	*108.85*	*107.70*	*101.88*	*102.79*	*7.77*	*0.11*
Autoproducers	-	-	*1.10*	*1.25*	*2.06*	*2.01*	-	-	-
Patent fuel/BKB plants	-	-	-	-	-	-	-	-	-
Coke ovens	-	-	-	-	-	-	-	-	-
Gas manufacture	-	-	5.64	5.67	5.39	5.59	5.33	-	-0.32
Industry sector	2.47	3.05	1.41	1.59	0.39	0.39	0.42	-4.57	-6.87
Iron and steel	-	-	-	-	-	-	-	-	-
Chemical	-	*0.17*	*0.23*	*0.24*	*0.24*	*0.24*	*0.26*	-	*0.51*
Non-metallic minerals	-	-	*0.00*	*0.00*	*0.01*	*0.01*	*0.01*	-	*12.13*
Paper, pulp and print	*0.17*	*0.19*	*0.10*	*0.10*	*0.06*	*0.06*	*0.06*	*-4.60*	*-2.82*
Other industry	*2.31*	*2.69*	*1.08*	*1.25*	*0.08*	*0.09*	*0.09*	*-6.12*	*-13.43*
Res, comm & pub serv[(1)]	0.34	0.29	0.17	0.12	0.06	0.06	0.16	-5.64	-0.25
Non-energy use	-	-	0.09	0.14	0.16	0.16	0.16	-	3.59

Source: *IEA/OECD Energy Statistics of OECD Countries*

(1) Residential, commercial and public services.

* Please refer to notes in *Principles and Definitions* .

IEA North America

7. FUEL PRICES TO END USERS*

	1978[1]	1980	1990	2000	2004	2005	2006	2007	2008
				(US dollars / tce)					
For electricity generation									
Steam coal	..	..	..	..	..	..	..	..	..
Heavy fuel oil	..	..	..	..	..	..	..	..	..
Natural gas	..	..	..	..	..	..	..	..	..
For industry									
Steam coal	..	..	..	..	..	..	..	..	..
Coking coal	..	..	..	..	..	..	..	..	..
High sulphur fuel oil	..	..	..	..	..	..	..	..	..
Low sulphur fuel oil	..	..	..	..	..	..	..	..	..
Natural gas	..	..	..	..	..	..	..	..	..
				(US dollars / unit)[2]					
For electricity generation									
Steam coal	..	..	..	..	..	..	..	..	..
Heavy fuel oil	..	..	..	..	..	..	..	..	..
Natural gas	..	..	..	..	..	..	..	..	..
For industry									
Steam coal	..	..	..	..	..	..	..	..	..
Coking coal	..	..	..	..	..	..	..	..	..
High sulphur fuel oil	..	..	..	..	..	..	..	..	..
Low sulphur fuel oil	..	..	..	..	..	..	..	..	..
Natural gas	..	..	..	..	..	..	..	..	..

Source: *IEA/OECD Energy Prices & Taxes*

(1) Earliest year for which split by coal type is available.

(2) For steam coal, coking coal and heavy fuel oil per metric tonne; for natural gas per 10^7 kilocalories GCV.

* Please refer to notes in *Principles and Definitions*.

8. COAL TRADE BY TYPE OF COAL*

(Mtce)

	1973	1980	1990	2000	2004	2005	2006	2007	2008e
Total imports	**15.98**	**16.93**	**16.60**	**35.28**	**44.75**	**44.38**	**50.74**	**50.64**	**47.63**
Hard coal	14.72	16.12	15.64	28.68	34.70	37.20	43.31	44.34	37.39
Coking coal	*..*	*6.21*	*4.22*	*5.72*	*5.19*	*5.60*	*5.56*	*4.73*	*4.67*
Steam coal	*..*	*9.91*	*11.41*	*22.96*	*29.51*	*31.59*	*37.75*	*39.62*	*32.72*
Brown coal / lignite	-	-	-	2.80	3.96	4.10	3.04	3.40	5.86
Peat	-	-	-	-	-	-	-	-	-
Coal products[1]	1.26	0.81	0.97	3.80	6.09	3.08	4.39	2.90	4.38
Total exports	**55.24**	**97.89**	**126.22**	**79.86**	**61.59**	**65.55**	**65.58**	**74.55**	**95.87**
Hard coal	53.62	96.02	125.51	78.58	60.19	63.75	63.88	72.79	93.06
Coking coal	*..*	*71.71*	*84.68*	*54.27*	*42.74*	*46.70*	*44.44*	*49.02*	*58.28*
Steam coal	*..*	*24.31*	*40.83*	*24.31*	*17.45*	*17.05*	*19.43*	*23.77*	*34.78*
Brown coal / lignite	0.00	0.03	0.04	0.03	0.16	0.18	0.23	0.36	1.04
Peat	-	-	-	-	-	-	-	-	-
Coal products[1]	1.62	1.84	0.67	1.25	1.24	1.63	1.47	1.39	1.78

Source: *IEA/OECD Energy Balances of OECD Countries, IEA/OECD Energy Statistics of OECD Countries*

(1) Coal products includes products derived from coal, for example: coke, coal tar, briquettes, patent fuels.

* Please refer to notes in *Principles and Definitions*.

IEA North America

9. HARD COAL IMPORTS BY ORIGIN*

(thousand tonnes)

	1978[1]	1980	1990	2000	2004	2005	2006	2007	2008e
Hard Coal	**16929**	**16717**	**16618**	**30061**	**37432**	**41610**	**48559**	**49922**	**41994**
Coking Coal	**5454**	**6389**	**4491**	**5843**	**5416**	**5831**	**5786**	**4924**	**4866**
Australia	-	-	-	-	182	144	72	-	-
Canada	-	-	-	1511	1735	1458	1461	1469	1580
Czech Republic	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-
Poland	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-
United States	5454	6389	4491	4296	3429	4160	4133	3322	3286
Other OECD	-	-	-	-	-	-	-	46	-
China, People's Rep.	-	-	-	-	-	-	-	87	-
Colombia	-	-	-	-	-	9	7	-	-
Indonesia	-	-	-	-	-	-	-	-	-
South Africa	-	-	-	-	-	-	-	-	-
Former USSR[2]	-	-	-	-	-	-	-	-	-
Russia[3]	-	-	-	-	-	-	-	-	-
Other Former USSR[3]	-	-	-	-	*70*	-	-	-	-
Venezuela	-	-	-	36	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-
Non-specified/other	-	-	-	-	-	60	113	-	-
Steam coal	**11475**	**10328**	**12127**	**24218**	**32016**	**35779**	**42773**	**44998**	**37128**
Australia	933	-	22	152	86	66	150	60	135
Canada	49	37	883	155	764	244	288	209	140
Czech Republic	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-
Poland	645	287	-	-	68	70	-	-	-
United Kingdom	-	-	5	-	40	1	1	1	5
United States	8796	9245	9639	14090	7371	6318	8537	7873	6033
Other OECD	-	-	-	6	103	39	96	32	1
China, People's Rep.	-	-	-	173	132	69	55	46	42
Colombia	-	-	1296	6928	16004	21333	25110	25913	25269
Indonesia	-	-	-	651	1979	2239	2855	3323	3060
South Africa	996	699	-	61	31	70	256	-	-
Former USSR[2]	-	-	-	-	-	-	-	-	-
Russia[3]	-	-	-	*26*	*275*	*686*	*1152*	*597*	*226*
Other Former USSR[3]	-	-	-	-	*225*	*141*	-	*98*	*53*
Venezuela	-	-	277	1904	4730	3951	4252	3731	2164
Vietnam	-	-	-	-	-	85	-	-	-
Non-specified/other	56	60	5	72	208	467	21	3115	-

Source: IEA/OECD Coal Statistics

(1) Earliest year for which split by coal type is available.

(2) If no detail.

(3) Data for former republics are not available separately for some OECD member countries.

* Please refer to notes in *Principles and Definitions*.

IEA North America

10. COKING COAL EXPORTS BY DESTINATION*

(thousand tonnes)

	1978[1]	1980	1990	2000	2004	2005	2006	2007	2008e
Total Exports	**40450**	**71373**	**84419**	**58166**	**48196**	**52711**	**50149**	**55166**	**65242**
Exports to:									
Total OECD	**36030**	**62263**	**67287**	**45136**	**36147**	**41133**	**38266**	**41635**	**47901**
Australia	-	-	-	-	-	-	-	-	-
Austria	-	-	-	-	-	239	30	125	294
Belgium	1103	2840	5538	2717	1309	1528	1596	1424	1650
Canada	5410	5694	3988	3501	3431	4034	4134	3299	3266
Czech Republic	-	-	-	-	-	-	-	-	-
Denmark	-	141	50	-	-	-	-	-	210
Finland	-	20	127	288	412	776	795	435	666
France	1468	4082	4880	2782	1388	1610	1652	2176	2453
Germany	560	1710	708	1211	2020	2230	2607	2789	2411
Greece	-	364	-	-	553	-	-	-	126
Hungary	-	-	-	65	-	-	70	-	175
Iceland	-	6	28	48	82	57	19	30	50
Ireland	-	198	-	-	-	-	-	-	68
Italy	3069	5594	6536	4467	2677	3672	4153	4202	3693
Japan	19925	30625	26588	12937	7759	8446	7523	8430	9876
Korea	1173	1994	2908	4947	3848	5497	4573	5228	6049
Luxembourg	-	-	-	-	-	-	-	-	-
Mexico	-	28	3	740	1253	994	612	546	1336
Netherlands	929	2390	3975	2143	2787	2355	2297	2895	3671
New Zealand	-	-	-	-	-	-	-	-	-
Norway	68	252	99	42	32	18	-	10	78
Poland	-	-	-	-	-	-	-	401	1552
Portugal	265	305	753	198	88	-	-	-	-
Slovak Republic	-	-	-	-	-	-	54	915	877
Spain	838	2171	3156	2331	1426	2029	1397	1563	1407
Sweden	453	1073	866	642	570	464	426	483	523
Switzerland	-	99	-	-	22	-	-	-	257
Turkey	409	796	1957	2403	2457	2667	2186	2263	2659
United Kingdom	360	1881	4355	3134	2298	2915	2681	2953	2987
United States	-	-	772	540	1735	1602	1461	1468	1567
Total Non-OECD	**4420**	**9026**	**11934**	**9805**	**11960**	**11578**	**11272**	**12991**	**16099**
Brazil	1942	3490	6327	5564	4545	4831	5519	7262	6903
Chinese Taipei	205	359	357	1440	1438	1274	1220	-	71
Egypt	218	749	586	682	1120	706	869	1453	1371
Hong Kong, China	-	-	-	-	-	-	-	-	-
India	200	263	-	22	813	1078	959	800	1439
Israel	-	-	50	56	-	-	-	-	-
Romania	673	853	1559	443	121	547	75	209	1588
Oth. Africa & Mid. East	1	642	614	269	381	377	382	500	648
Other Latin America	914	1603	872	496	622	575	739	640	838
Other Asia & Oceania	24	49	529	-	2333	1060	265	240	660
Other Europe and FSU	243	1018	1040	833	587	1130	1244	1887	2581
Non-Specified/Other	**-**	**84**	**5198**	**3225**	**89**	**-**	**611**	**540**	**1242**

Source: IEA/OECD Coal Statistics

(1) Earliest year for which split by coal type is available.

* Please refer to notes in *Principles and Definitions*.

IEA North America

11. STEAM COAL EXPORTS BY DESTINATION*

(thousand tonnes)

	1978[1]	1980	1990	2000	2004	2005	2006	2007	2008e
Total Exports	**10808**	**27123**	**42493**	**26922**	**20901**	**20448**	**22700**	**27909**	**39957**
Exports to:									
Total OECD	**10341**	**25340**	**35375**	**25397**	**18478**	**18046**	**20589**	**23489**	**35577**
Australia	-	-	1	-	-	-	-	-	-
Austria	-	-	-	-	-	-	-	75	-
Belgium	27	1383	2178	429	555	411	363	483	1144
Canada	8782	10136	10083	13524	12680	13625	13909	13386	17553
Czech Republic	-	-	-	-	-	-	-	-	-
Denmark	309	1608	3321	70	67	66	348	72	139
Finland	-	233	-	-	-	-	360	176	185
France	38	2984	1758	564	-	28	195	584	1263
Germany	528	1188	384	522	376	133	569	1009	1256
Greece	-	4	-	-	-	-	-	-	66
Hungary	-	-	-	-	-	-	-	-	-
Iceland	-	-	15	-	-	-	-	-	-
Ireland	-	159	1322	456	-	-	-	74	74
Italy	22	924	4451	79	122	23	-	135	287
Japan	243	1426	4007	4425	1640	962	1379	2099	2307
Korea	356	552	719	2275	665	749	918	980	2184
Luxembourg	-	-	-	-	-	-	-	-	-
Mexico	-	-	188	373	80	341	156	148	532
Netherlands	27	1834	3982	643	591	829	593	2278	3279
New Zealand	-	-	1	-	-	-	-	-	-
Norway	-	-	62	74	-	-	-	-	-
Poland	-	-	-	-	-	-	-	-	109
Portugal	-	24	1386	343	317	143	267	258	391
Slovak Republic	-	-	-	-	-	-	-	-	-
Spain	-	970	282	441	67	-	250	-	990
Sweden	-	39	21	-	-	71	-	-	144
Switzerland	-	-	-	-	-	-	-	-	149
Turkey	5	-	15	55	-	67	-	1	34
United Kingdom	-	1875	1005	1016	558	361	1052	1578	3352
United States	4	1	194	108	760	237	230	153	139
Total Non-OECD	**95**	**1699**	**5891**	**971**	**1770**	**2202**	**1814**	**4420**	**4183**
Brazil	11	98	177	22	883	693	176	95	401
Chinese Taipei	-	530	3820	-	1	1	3	2	-
Egypt	-	-	-	-	-	-	-	-	-
Hong Kong, China	-	-	108	1	-	-	-	-	-
India	-	-	-	-	224	217	71	1	72
Israel	-	-	530	-	-	-	-	172	328
Romania	-	413	-	-	135	844	927	1069	73
Oth. Africa & Mid. East	1	56	682	825	358	63	190	2212	1715
Other Latin America	82	575	522	49	140	269	367	789	893
Other Asia & Oceania	1	19	5	8	-	-	6	12	399
Other Europe and FSU	-	8	47	66	29	115	74	68	302
Non-Specified/Other	**372**	**84**	**1227**	**554**	**653**	**200**	**297**	**-**	**197**

Source: IEA/OECD Coal Statistics

(1) Earliest year for which split by coal type is available.

* Please refer to notes in *Principles and Definitions*.

IEA Europe*

Chart 1: TPES by fuel (Mtce)

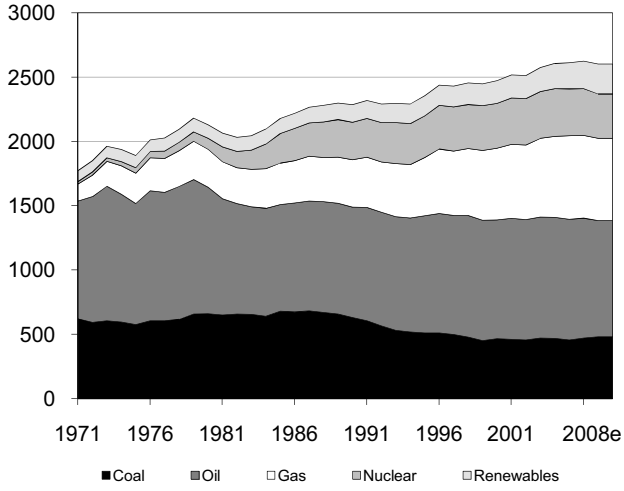


Chart 2: Coal supply indicators (1971 = 100)

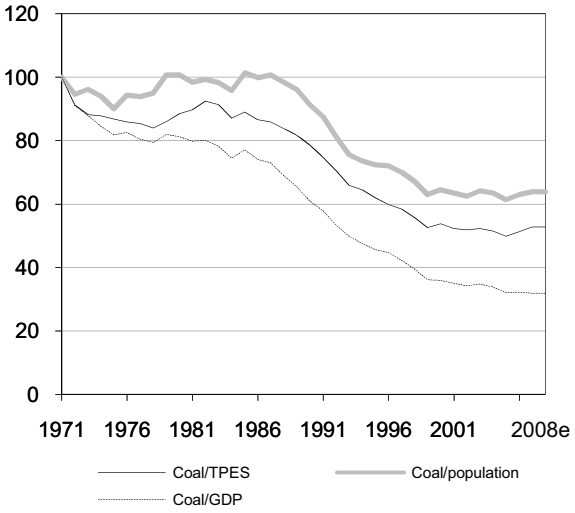


Chart 3: Primary coal supply (Mtce)

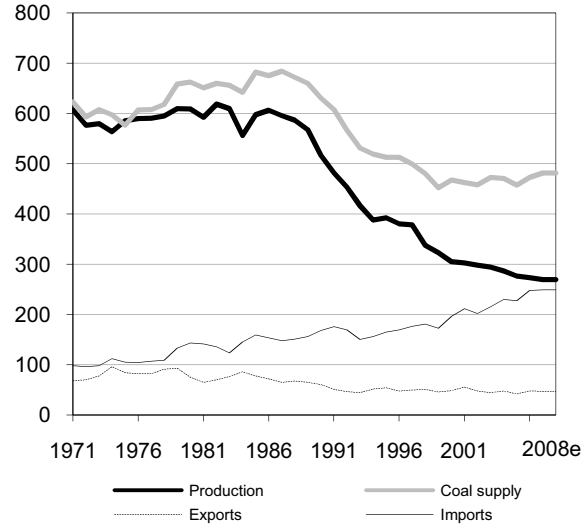


Chart 4: Coal consumption (Mtce)

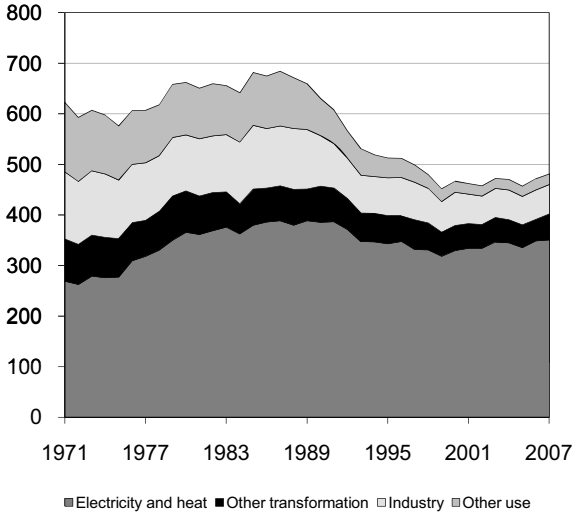


Chart 5: Electricity generation by fuel (TWh)

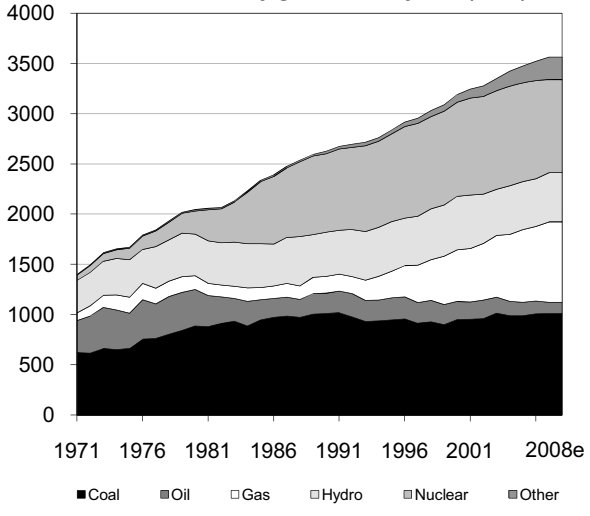
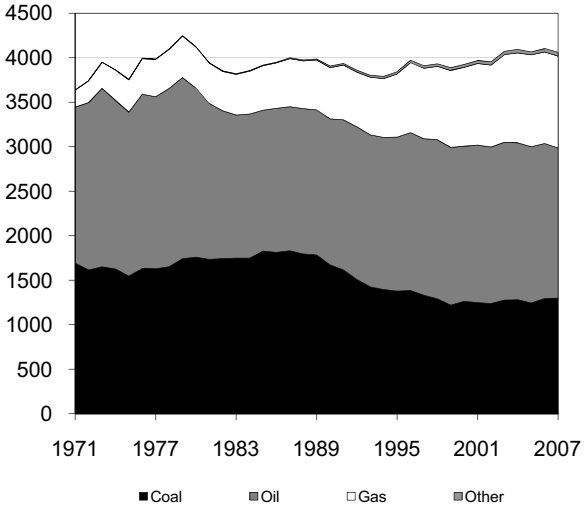


Chart 6: CO_2 emissions by fuel (Mt CO_2)



*Please refer to notes in *Principles and Definitions* . Peat is included in coal for all charts.

IEA Europe

1. TOTAL PRIMARY ENERGY SUPPLY (TPES) BY FUEL*

	1973	1980	1990	2000	2006	2007	2008e	Average annual percent change 73-90	90-07
TPES (Mtce)	**1963.37**	**2132.48**	**2289.16**	**2474.98**	**2627.35**	**2603.01**	**2591.13**	**0.91**	**0.76**
Coal and peat	607.66	662.56	630.76	467.15	472.20	481.55	449.83	0.22	-1.58
Oil	1045.48	982.63	860.12	923.30	932.31	904.39	901.74	-1.14	0.30
Gas	192.59	294.46	368.55	558.22	642.50	639.61	655.71	3.89	3.30
Comb. renew/waste	44.27	50.97	75.85	99.92	133.35	146.30	149.02	3.22	3.94
Nuclear	27.69	85.79	291.38	348.01	364.42	344.66	343.25	14.85	0.99
Hydro	41.79	50.69	53.95	65.69	58.18	60.10	62.06	1.51	0.64
Geothermal	3.12	3.38	5.26	7.83	9.53	9.90	9.77	3.13	3.79
Solar, wind, tide	0.07	0.07	0.41	3.82	12.23	15.38	17.76	11.14	23.71
Net electricity trade[1]	0.71	1.92	2.85	0.49	1.97	0.49	1.38	8.55	-9.87
Heat[2]	-	-	0.03	0.54	0.65	0.63	0.60	-	20.25

Source: *IEA/OECD Energy Balances of OECD Countries*

(1) Net trade between OECD and non-OECD countries.

(2) Ambient heat from heat pumps used in the transformation sector.

2. ENERGY SUPPLY, GDP AND POPULATION*

	1973	1980	1990	2000	2006	2007	2008e	Average annual percent change 73-90	90-07
GDP (2000 bil. US$)	4811	5675	7219	9057	10228	10521	10631	2.42	2.24
TPES/GDP[1]	0.41	0.38	0.32	0.27	0.26	0.25	0.24	-1.47	-1.45
Population (millions)	454.8	473.6	497.3	521.2	539.5	542.7	544.9	0.53	0.51
TPES/population[1]	4.32	4.50	4.60	4.75	4.87	4.80	4.76	0.38	0.24
TPES/GDP[2]	149.4	137.5	116.0	100.0	94.0	90.5	89.2	-1.47	-1.45
Coal and peat supply/GDP[2]	244.9	226.3	169.4	100.0	89.5	88.7	82.0	-2.14	-3.73
Elec. consumption/GDP[2]	93.8	101.3	103.1	100.0	99.6	97.7	..	0.56	-0.32
Elec. generation (TWh)	1616	2046	2628	3192	3521	3565	3569	2.90	1.81
Industrial production[2]	..	..	..	..	..	..	..	-	-

Source: *IEA/OECD Energy Balances of OECD Countries* , *OECD Main Economic Indicators*

(1) TPES/GDP in units of tce/2000 thousand US$, TPES/population in units of tce/capita.

(2) As index, 2000 = 100

3. COAL AND PEAT PRODUCTION BY TYPE*

	1978[1]	1980	1990	2000	2006	2007	2008e	Average annual percent change 78-90	90-07
Mtce:									
Coking coal	136.40	123.53	92.69	44.80	36.16	35.74	31.73	-3.17	-5.45
Steam coal	276.37	293.95	217.31	122.24	97.11	91.72	86.35	-1.98	-4.95
Brown coal	179.98	188.71	201.45	135.13	133.86	139.50	135.85	0.94	-2.14
Peat	2.30	2.67	4.96	3.38	6.00	2.62	2.90	6.61	-3.68
Mt:									
Coking coal	141.07	127.95	93.45	45.21	36.33	36.01	32.01	-3.37	-5.45
Steam coal	341.51	363.56	269.75	153.35	122.49	116.03	109.10	-1.95	-4.84
Brown coal	590.99	607.01	657.55	440.36	441.30	453.35	441.13	0.89	-2.16
Peat	8.05	9.34	14.68	10.36	17.65	7.76	8.56	5.13	-3.68

Source: *IEA/OECD Energy Balances of OECD Countries, IEA/OECD Energy Statistics of OECD Countries*

(1) Earliest year for which split by coal type is available.

* Please refer to notes in *Principles and Definitions* .

IEA Europe

4. FINAL CONSUMPTION OF ENERGY BY FUEL*

(Mtce)

	1973	1980	1990	2000	2005	2006	2007	Average annual percent change 73-90	90-07
TFC[1]	**1459.15**	**1536.05**	**1590.86**	**1736.21**	**1850.77**	**1858.80**	**1835.06**	**0.51**	**0.84**
Coal and peat	246.98	215.02	173.35	87.88	76.51	80.97	79.37	-2.06	-4.49
Oil	823.83	780.53	736.33	805.40	827.37	824.49	805.76	-0.66	0.53
Gas	153.86	237.99	291.36	382.02	417.40	409.39	401.06	3.83	1.90
Comb. renew/wastes	40.36	43.56	63.61	74.19	81.12	87.09	90.99	2.71	2.13
Geothermal	0.07	0.10	1.19	1.81	2.36	2.40	2.48	18.03	4.40
Solar, wind, tide	-	0.01	0.25	0.96	1.50	1.65	1.90	-	12.78
Electricity	164.64	209.58	271.55	330.29	363.69	371.53	374.80	2.99	1.91
Heat	29.41	49.26	53.22	53.65	80.81	81.26	78.69	3.55	2.33
of which:									
Total industry	**532.56**	**509.28**	**454.58**	**457.06**	**463.46**	**457.71**	**459.93**	**-0.93**	**0.07**
Coal and peat	127.33	111.28	99.89	66.18	56.18	58.41	58.31	-1.42	-3.12
Oil	214.57	166.86	81.16	75.07	71.81	67.65	64.19	-5.56	-1.37
Gas	77.85	97.10	111.00	139.60	134.98	128.78	131.80	2.11	1.02
Comb. renew/wastes	7.03	8.39	20.52	24.83	25.88	27.60	28.34	6.50	1.92
Geothermal	-	-	-	0.01	0.02	0.02	0.02	-	-
Solar, wind, tide	-	-	0.01	0.14	0.18	0.18	0.18	-	17.72
Electricity	90.40	105.03	123.24	139.27	149.63	149.65	152.48	1.84	1.26
Heat	15.38	20.62	18.78	11.96	24.78	25.42	24.61	1.18	1.60
Total transport	**248.29**	**297.71**	**379.08**	**450.78**	**478.22**	**487.97**	**497.05**	**2.52**	**1.61**
Coal and peat	9.79	3.63	0.30	0.01	0.02	0.01	0.01	-18.56	-20.14
Oil	233.42	287.37	370.74	439.61	461.85	468.49	473.79	2.76	1.45
Gas	0.22	0.81	0.43	1.04	2.45	2.45	2.70	3.99	11.33
Comb. renew/wastes	0.00	0.00	0.00	1.00	4.46	7.76	11.21	-2.02	63.86
Electricity	4.86	5.89	7.60	9.11	9.43	9.25	9.35	2.67	1.22
Residential	**345.30**	**366.05**	**397.89**	**429.96**	**454.30**	**451.27**	**423.85**	**0.84**	**0.37**
Coal and peat	79.02	68.26	49.23	16.55	15.29	16.95	15.76	-2.75	-6.48
Oil	144.38	116.38	94.02	90.54	85.92	81.93	65.48	-2.49	-2.11
Gas	43.30	75.52	108.25	155.96	180.76	177.47	169.18	5.54	2.66
Comb. renew/wastes	26.32	28.45	40.67	44.70	45.91	46.66	46.13	2.59	0.74
Geothermal	0.07	0.10	0.68	1.34	1.81	1.83	1.91	14.21	6.23
Solar, wind, tide	-	0.01	0.18	0.64	1.14	1.28	1.49	-	13.27
Electricity	41.14	57.95	78.04	93.56	104.16	105.97	105.57	3.84	1.79
Heat	11.07	19.38	26.82	26.66	19.30	19.19	18.33	5.34	-2.21
Comm & public services	**136.40**	**149.66**	**157.79**	**174.32**	**198.74**	**203.95**	**195.99**	**0.86**	**1.28**
Coal and peat	19.20	23.11	17.87	2.00	1.81	2.08	1.79	-0.42	-12.66
Oil	82.12	72.12	39.60	30.33	31.04	30.01	24.52	-4.20	-2.78
Gas	7.89	14.36	38.23	50.01	61.44	62.07	59.05	9.73	2.59
Comb. renew/waste	1.16	1.50	0.44	1.71	2.66	2.77	3.07	-5.50	12.06
Geothermal	-	-	0.13	0.14	0.18	0.19	0.20	-	2.62
Solar, wind, tide	-	-	0.02	0.07	0.12	0.13	0.14	-	11.36
Electricity	24.87	35.55	56.60	81.46	93.36	99.00	99.64	4.96	3.38
Heat	1.17	3.03	4.91	8.61	8.14	7.69	7.58	8.82	2.59
Non-energy use	**115.93**	**122.36**	**141.45**	**158.71**	**166.07**	**166.69**	**168.78**	**1.18**	**1.04**
Coal and peat	4.42	3.08	2.08	1.19	1.59	1.63	1.83	-4.35	-0.73
Oil	104.59	101.49	119.36	138.00	144.89	146.79	148.50	0.78	1.29
Gas	6.92	17.79	20.02	19.52	19.59	18.27	18.46	6.45	-0.48

Source: *IEA/OECD Energy Balances of OECD Countries*

(1) Total Final Consumption (TFC) excludes use in transformation and energy sectors.

* Please refer to notes in *Principles and Definitions*.

IEA Europe

5. COAL BALANCE*

(Mtce)

	1973	1980	1990	2000	2006	2007	2008e	Average annual percent change 73-90	90-07
Production	579.5	608.9	516.4	305.5	273.1	269.6	256.8	-0.7	-3.8
Imports	97.9	143.1	168.2	196.0	247.9	249.1	238.4	3.2	2.3
Exports	-77.4	-75.1	-60.5	-48.1	-47.6	-46.8	-37.5	-1.4	-1.5
Stock changes	7.8	-14.4	6.7	13.7	-1.2	9.7	-7.9	x	x
Primary supply	**607.7**	**662.6**	**630.8**	**467.2**	**472.2**	**481.5**	**449.8**	**0.2**	**-1.6**
Statistical difference	**5.1**	**-6.0**	**-11.1**	**0.1**	**3.7**	**-4.3**	**..**	**x**	**x**
Total transformation	**-341.3**	**-421.7**	**-432.4**	**-368.1**	**-384.4**	**-386.7**	**..**	**1.4**	**-0.7**
Electricity and heat gen.	-279.3	-366.1	-385.8	-330.0	-349.3	-351.1	..	1.9	-0.6
Main activity producers (1)	*-258.2*	*-306.9*	*-335.8*	*-310.5*	*-329.5*	*-330.9*	*..*	*1.6*	*-0.1*
Autoproducers	*-21.1*	*-59.2*	*-50.0*	*-19.5*	*-19.8*	*-20.2*	*..*	*5.2*	*-5.2*
Gas works	-8.9	-6.8	-3.1	-0.6	-0.8	-0.7	..	-6.1	-8.6
Coal transformation(2)	-53.2	-48.8	-43.5	-37.6	-34.3	-34.9	..	-1.2	-1.3
BKB plants	*2.4*	*1.6*	*-0.9*	*-0.3*	*-0.3*	*-0.2*	*..*	*-*	*-8.1*
Blast furnaces	*-38.4*	*-37.3*	*-32.8*	*-30.2*	*-28.1*	*-29.3*	*..*	*-0.9*	*-0.7*
Coke ovens	*-17.9*	*-13.8*	*-10.1*	*-7.3*	*-5.9*	*-5.5*	*..*	*-3.3*	*-3.5*
Patent fuel plants	*0.8*	*0.7*	*0.2*	*0.2*	*0.1*	*0.0*	*..*	*-7.4*	*-8.4*
Other transformation(3)	-	-	-	0.0	0.0	0.0	..	-	-
Own use	**-21.2**	**-18.3**	**-13.1**	**-10.1**	**-9.1**	**-9.8**	**..**	**-2.8**	**-1.7**
Distribution losses	**-3.3**	**-1.5**	**-0.8**	**-1.1**	**-1.4**	**-1.5**	**..**	**x**	**x**
Final consumption(4)	**247.0**	**215.0**	**173.4**	**87.9**	**81.0**	**79.4**	**..**	**-2.1**	**-4.5**
Industry sector(5)	127.3	111.3	99.9	66.2	58.4	58.3	..	-1.4	-3.1
Iron and steel	*52.3*	*42.9*	*39.4*	*27.3*	*25.0*	*23.9*	*..*	*-1.7*	*-2.9*
Chemical	*14.1*	*12.8*	*11.3*	*4.4*	*4.4*	*3.3*	*..*	*-1.3*	*-7.1*
Non-metallic minerals	*13.5*	*16.0*	*17.7*	*11.3*	*8.2*	*9.5*	*..*	*1.6*	*-3.6*
Paper, pulp and print	*4.1*	*3.4*	*3.8*	*2.2*	*2.0*	*1.8*	*..*	*-0.5*	*-4.2*
Transport sector(6)	9.8	3.6	0.3	0.0	0.0	0.0	..	-18.6	-20.1
Other sectors(7)	105.4	97.0	71.1	20.5	20.9	19.2	..	-2.3	-7.4
Comm. and pub. services	*19.2*	*23.1*	*17.9*	*2.0*	*2.1*	*1.8*	*..*	*-0.4*	*-12.7*
Residential	*79.0*	*68.3*	*49.2*	*16.6*	*17.0*	*15.8*	*..*	*-2.7*	*-6.5*
Non-energy use	4.4	3.1	2.1	1.2	1.6	1.8	..	-4.4	-0.7

Source: *IEA/OECD Energy Balances of OECD Countries*

(1) Main activity electricity and heat generation includes district heating.

(2) Coal transformation refers to the transformation of coal and peat to secondary and tertiary products (mainly coke, briquettes, coke oven gas and blast furnace gas).

(3) Other transformation includes liquefaction and non-specified transformation.

(4) Final Consumption includes non-energy use and energy use (industry, transport and other sectors).

(5) Please refer to notes in *Principles and Definitions* for detailed explanation.

(6) Transport sector includes rail and inland waterways.

(7) Other sectors includes commercial and public services, agriculture, and residential.

* "Coal" refers to all types of coal, primary (anthracite, coking coal, other bituminous coal, sub-bituminous coal, lignite/brown coal, peat) and derived fuels (including patent fuel, BKB/peat briquettes, coke oven coke, gas coke, coal tar, coke oven gas, gas works gas, blast furnace gas and oxygen steel furnace gas). Quantities have been converted to Mtce using calorific values reported by the respective countries. Please refer to notes in *Principles and Definitions*.

IEA Europe

6. USE OF COAL FOR SELECTED END-USES*

(million tonnes)

	1978	1980	1990	2000	2005	2006	2007	Average annual percent change 78-90	90-07
Steam coal	**360.16**	**393.46**	**349.68**	**272.43**	**281.39**	**294.95**	**297.61**	**-0.25**	**-0.94**
Total electricity and heat	252.42	283.00	274.89	220.43	229.42	241.13	238.45	0.71	-0.83
Main activity producers	*203.10*	*232.57*	*238.33*	*210.67*	*220.44*	*231.67*	*228.94*	*1.34*	*-0.24*
Autoproducers	*49.33*	*50.42*	*36.56*	*9.76*	*8.99*	*9.46*	*9.51*	*-2.47*	*-7.62*
Patent fuel/BKB plants	6.57	6.00	2.02	0.84	0.45	0.46	0.36	-9.37	-9.69
Coke ovens	2.28	2.21	0.09	-	-	-	-	-23.82	-
Blast furnace inputs	0.01	0.01	3.58	7.29	7.69	8.07	7.79	72.95	4.68
Gas manufacture	1.63	1.49	0.38	-	-	-	-	-11.40	-
Industry sector	39.59	42.76	37.15	30.56	28.20	30.54	32.33	-0.53	-0.81
Iron and steel	*4.40*	*4.37*	*3.35*	*3.23*	*4.05*	*4.31*	*3.53*	*-2.26*	*0.31*
Chemical	*3.13*	*4.09*	*5.62*	*2.96*	*3.28*	*2.72*	*2.22*	*4.99*	*-5.33*
Non-metallic minerals	*13.41*	*14.81*	*16.06*	*9.72*	*6.40*	*6.56*	*7.89*	*1.51*	*-4.09*
Paper, pulp and print	*0.84*	*0.91*	*2.15*	*1.77*	*1.61*	*1.57*	*1.39*	*8.14*	*-2.52*
Other industry	*17.80*	*18.58*	*9.98*	*12.89*	*12.85*	*15.39*	*17.30*	*-4.71*	*3.29*
Res, comm & pub serv[(1)]	47.57	48.76	26.36	12.66	12.51	13.51	13.49	-4.80	-3.86
Non-energy use	0.08	0.09	0.05	0.03	0.15	0.08	0.20	-3.32	8.09
Coking coal	**145.14**	**154.75**	**129.44**	**92.82**	**81.81**	**85.07**	**86.69**	**-0.95**	**-2.33**
Total electricity and heat	7.14	10.83	18.23	13.37	12.70	12.20	13.48	8.12	-1.76
Main activity producers	*6.19*	*9.59*	*14.32*	*10.17*	*10.73*	*9.95*	*11.40*	*7.23*	*-1.33*
Autoproducers	*0.95*	*1.25*	*3.91*	*3.20*	*1.97*	*2.25*	*2.08*	*12.52*	*-3.64*
Patent fuel/BKB plants	-	-	-	-	-	-	-	-	-
Coke ovens	135.41	141.39	107.92	73.01	64.76	69.26	69.57	-1.87	-2.55
Blast furnace inputs	-	0.28	1.45	1.85	2.82	2.76	3.40	-	5.13
Gas manufacture	2.46	2.03	0.26	-	-	-	-	-17.08	-
Industry sector	0.14	0.23	1.97	2.57	0.78	0.46	0.42	24.42	-8.74
Iron and steel	*0.01*	*0.01*	*1.63*	*0.18*	*0.21*	*0.24*	*0.19*	*57.52*	*-11.78*
Chemical	*0.00*	*0.00*	*-*	*0.00*	*-*	*-*	*-*	*-*	*-*
Non-metallic minerals	*0.00*	*0.01*	*-*	*0.00*	*-*	*-*	*0.01*	*-*	*-*
Paper, pulp and print	*-*	*-*	*-*	*-*	*-*	*-*	*-*	*-*	*-*
Other industry	*0.13*	*0.21*	*0.34*	*2.39*	*0.57*	*0.22*	*0.21*	*8.07*	*-2.66*
Res, comm & pub serv[(1)]	0.27	0.32	0.14	0.10	0.13	0.11	0.08	-5.56	-3.37
Non-energy use	-	-	-	0.23	0.22	0.23	0.23	-	-
Brown coal/lignite	**591.89**	**609.46**	**669.91**	**447.55**	**446.15**	**440.72**	**454.73**	**1.04**	**-2.25**
Total electricity and heat	359.55	373.47	467.82	408.41	412.65	404.11	419.50	2.22	-0.64
Main activity producers	*343.49*	*353.79*	*440.18*	*402.08*	*406.58*	*398.06*	*414.02*	*2.09*	*-0.36*
Autoproducers	*16.06*	*19.69*	*27.64*	*6.33*	*6.07*	*6.04*	*5.48*	*4.63*	*-9.08*
Patent fuel/BKB plants	134.34	139.29	108.97	12.18	12.44	13.04	12.26	-1.73	-12.06
Coke ovens	-	-	-	-	-	-	-	-	-
Gas manufacture	6.40	6.34	2.86	1.35	1.49	1.51	1.49	-6.50	-3.77
Industry sector	48.24	46.99	43.49	15.37	10.06	11.08	10.11	-0.86	-8.22
Iron and steel	*1.12*	*1.44*	*2.25*	*1.00*	*0.89*	*0.84*	*0.80*	*6.02*	*-5.93*
Chemical	*14.37*	*15.53*	*10.76*	*3.28*	*3.19*	*3.17*	*1.78*	*-2.38*	*-10.04*
Non-metallic minerals	*1.65*	*1.67*	*2.12*	*0.90*	*0.55*	*0.67*	*0.85*	*2.10*	*-5.20*
Paper, pulp and print	*4.04*	*4.15*	*1.99*	*0.48*	*0.45*	*0.37*	*0.39*	*-5.73*	*-9.19*
Other industry	*27.07*	*24.21*	*26.37*	*9.71*	*4.98*	*6.03*	*6.29*	*-0.22*	*-8.08*
Res, comm & pub serv[(1)]	28.55	36.62	41.35	8.62	7.95	9.21	9.33	3.14	-8.39
Non-energy use	0.83	0.82	0.58	0.02	0.04	0.04	0.04	-2.94	-14.81

Source: *IEA/OECD Energy Statistics of OECD Countries*

(1) Residential, commercial and public services.

* Please refer to notes in *Principles and Definitions*.

IEA Europe

7. FUEL PRICES TO END USERS*

	1978[1]	1980	1990	2000	2004	2005	2006	2007	2008
				(US dollars / tce)					
For electricity generation									
Steam coal	..	..	..	..	..	..	..	..	..
Heavy fuel oil	..	..	..	..	..	..	..	..	..
Natural gas	..	..	..	..	..	..	..	..	..
For industry									
Steam coal	..	..	..	..	..	..	..	..	..
Coking coal	..	..	..	..	..	..	..	..	..
High sulphur fuel oil	..	..	..	..	..	..	..	..	..
Low sulphur fuel oil	..	..	..	..	..	..	..	..	..
Natural gas	..	..	..	..	..	..	..	..	..
				(US dollars / unit)[2]					
For electricity generation									
Steam coal	..	..	..	..	..	..	..	..	..
Heavy fuel oil	..	..	..	..	..	..	..	..	..
Natural gas	..	..	..	..	..	..	..	..	..
For industry									
Steam coal	..	..	..	..	..	..	..	..	..
Coking coal	..	..	..	..	..	..	..	..	..
High sulphur fuel oil	..	..	..	..	..	..	..	..	..
Low sulphur fuel oil	..	..	..	..	..	..	..	..	..
Natural gas	..	..	..	..	..	..	..	..	..

Source: *IEA/OECD Energy Prices & Taxes*

(1) Earliest year for which split by coal type is available.

(2) For steam coal, coking coal and heavy fuel oil per metric tonne; for natural gas per 10^7 kilocalories GCV.

* Please refer to notes in *Principles and Definitions*.

8. COAL TRADE BY TYPE OF COAL*

(Mtce)

	1973	1980	1990	2000	2004	2005	2006	2007	2008e
Total imports	**97.87**	**143.15**	**168.15**	**196.02**	**230.13**	**227.15**	**247.87**	**249.05**	**238.35**
Hard coal	70.11	117.94	148.58	178.89	214.61	212.92	233.25	233.51	223.77
Coking coal	*..*	*49.56*	*56.93*	*56.67*	*53.16*	*53.92*	*57.12*	*58.53*	*58.35*
Steam coal	*..*	*68.37*	*91.65*	*122.22*	*161.45*	*159.00*	*176.13*	*174.97*	*165.41*
Brown coal / lignite	5.30	5.73	7.18	2.55	1.62	1.62	2.03	2.25	1.99
Peat	-	-	0.10	0.10	0.16	0.13	0.11	0.16	0.16
Coal products[1]	22.46	19.48	12.30	14.48	13.74	12.48	12.48	13.14	12.44
Total exports	**77.44**	**75.09**	**60.46**	**48.08**	**47.18**	**41.66**	**47.55**	**46.77**	**37.48**
Hard coal	52.78	51.51	41.58	35.58	34.42	30.01	32.66	32.39	22.91
Coking coal	*..*	*20.95*	*19.56*	*9.76*	*6.71*	*6.47*	*7.88*	*7.07*	*4.81*
Steam coal	*..*	*30.56*	*22.02*	*25.82*	*27.71*	*23.54*	*24.78*	*25.32*	*18.10*
Brown coal / lignite	1.43	4.55	4.75	3.82	2.50	2.70	2.61	2.46	3.30
Peat	-	0.00	0.12	0.06	0.04	0.05	0.04	0.02	0.01
Coal products[1]	23.23	19.03	14.00	8.63	10.22	8.90	12.24	11.90	11.25

Source: *IEA/OECD Energy Balances of OECD Countries, IEA/OECD Energy Statistics of OECD Countries*

(1) Coal products includes products derived from coal, for example: coke, coal tar, briquettes, patent fuels.

* Please refer to notes in *Principles and Definitions*.

IEA Europe

9. HARD COAL IMPORTS BY ORIGIN*

(thousand tonnes)

	1978[1]	1980	1990	2000	2004	2005	2006	2007	2008e
Hard Coal	**92461**	**126664**	**157476**	**195112**	**236013**	**235066**	**257436**	**259434**	**247858**
Coking Coal	**40078**	**49216**	**55532**	**56057**	**52237**	**52927**	**56046**	**58086**	**57815**
Australia	4497	4326	10043	21758	20587	20394	22012	22533	21866
Canada	294	224	2812	7072	6067	6735	7028	7690	6633
Czech Republic	909	1072	774	3388	3656	3366	4562	4678	3891
Germany	10550	8326	3141	2	108	289	3	-	1
Poland	6190	4668	2570	3118	2949	3246	4053	3246	3400
United Kingdom	79	66	52	-	-	6	-	-	-
United States	8745	21591	28433	16900	12490	13840	13440	15076	17904
Other OECD	105	182	80	24	88	180	55	91	192
China, People's Rep.	-	-	1	2	1976	279	291	70	158
Colombia	-	-	24	140	275	193	206	154	328
Indonesia	-	-	46	441	-	-	-	-	-
South Africa	206	544	158	388	433	295	65	150	494
Former USSR[2]	3005	2992	-	-	-	-	-	-	-
Russia[3]	-	-	*2419*	*2327*	*1918*	*2658*	*2651*	*2183*	*1340*
Other Former USSR[3]	-	-	-	*26*	*543*	*548*	*713*	*648*	*82*
Venezuela	-	-	-	418	969	872	815	1059	1023
Vietnam	-	-	-	53	-	-	40	-	75
Non-specified/other	5498	5225	4979	-	178	26	112	508	428
Steam coal	**52383**	**77448**	**101944**	**139055**	**183776**	**182139**	**201390**	**201348**	**190043**
Australia	2955	4875	9790	9416	10442	7533	6476	7717	6318
Canada	816	695	832	12	286	807	210	804	271
Czech Republic	243	255	327	2393	1801	1004	1214	1368	2143
Germany	6716	4145	2124	431	540	533	435	365	507
Poland	15647	16959	10802	17721	15210	14770	13968	9508	6414
United Kingdom	2285	4184	2423	589	303	297	176	261	385
United States	499	14231	20452	4676	3749	2355	3379	5521	12839
Other OECD	980	1406	3548	3646	2387	2671	2618	4882	6230
China, People's Rep.	21	417	2783	1887	3112	1898	2009	2506	1711
Colombia	-	-	9060	22296	25621	26517	28536	31756	29891
Indonesia	-	-	194	8230	13559	14251	20555	17115	15625
South Africa	10814	20027	26099	42810	55859	52971	55207	48586	37948
Former USSR[2]	2863	2405	-	-	-	-	-	-	-
Russia[3]	-	-	*6115*	*15292*	*41242*	*48664*	*57640*	*59555*	*58817*
Other Former USSR[3]	-	-	-	*894*	*2205*	*3021*	*2696*	*2139*	*3270*
Venezuela	-	-	1475	3081	1397	1142	1091	1305	1083
Vietnam	-	-	-	561	321	213	396	174	75
Non-specified/other	8544	7849	5920	5120	5742	3492	4784	7786	6516

Source: IEA/OECD Coal Statistics

(1) Earliest year for which split by coal type is available.

(2) If no detail.

(3) Data for former republics are not available separately for some OECD member countries.

* Please refer to notes in *Principles and Definitions*.

IEA Europe

10. COKING COAL EXPORTS BY DESTINATION*

(thousand tonnes)

	1978[1]	1980	1990	2000	2004	2005	2006	2007	2008e
Total Exports	**35537**	**21303**	**19781**	**9747**	**6757**	**6663**	**8092**	**7234**	**4911**
Exports to:									
Total OECD	**25095**	**17617**	**11025**	**8106**	**6717**	**6172**	**7363**	**7035**	**4871**
Australia	-	-	-	-	-	-	-	-	-
Austria	1283	1131	1351	1844	1713	1514	1517	1458	1230
Belgium	2383	1242	858	1	169	20	4	16	136
Canada	-	-	-	-	-	-	-	-	-
Czech Republic	-	-	-	214	462	523	944	1032	877
Denmark	-	3	-	-	20	-	-	-	18
Finland	-	27	203	717	354	13	-	-	-
France	6331	4817	1697	108	253	30	80	25	23
Germany	154	206	144	1061	266	397	208	16	-
Greece	54	99	-	-	-	-	-	-	-
Hungary	-	-	-	1010	385	449	604	580	324
Iceland	-	-	-	-	-	-	-	-	-
Ireland	-	-	3	4	5	1	1	-	-
Italy	4005	3105	1017	-	-	295	94	106	-
Japan	804	214	-	-	-	-	-	-	-
Korea	-	-	-	-	-	-	-	-	-
Luxembourg	286	1	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-
Netherlands	1426	1109	573	323	4	48	30	-	37
New Zealand	-	-	-	-	-	-	-	-	-
Norway	125	80	-	53	-	-	-	9	-
Poland	-	-	-	538	572	592	1367	1863	565
Portugal	122	60	52	-	-	-	-	-	-
Slovak Republic	5126	4345	3681	1570	2308	1909	2299	1905	1661
Spain	1826	648	649	65	118	99	142	25	-
Sweden	387	124	-	494	-	-	-	-	-
Switzerland	18	-	3	-	-	-	-	-	-
Turkey	89	-	-	100	-	212	73	-	-
United Kingdom	573	406	794	4	88	-	-	-	-
United States	103	-	-	-	-	70	-	-	-
Total Non-OECD	**2491**	**2657**	**4676**	**1641**	**38**	**491**	**729**	**199**	**32**
Brazil	15	235	1249	143	-	-	70	-	-
Chinese Taipei	-	-	-	-	-	-	-	-	-
Egypt	-	115	100	529	37	355	298	-	-
Hong Kong, China	-	-	-	-	-	-	-	-	-
India	-	-	284	-	-	-	-	-	-
Israel	-	-	-	-	-	-	-	-	-
Romania	-	-	100	62	-	-	-	-	-
Oth. Africa & Mid. East	520	166	-	2	-	-	-	-	-
Other Latin America	5	145	1249	2	-	-	-	-	-
Other Asia & Oceania	-	-	-	-	-	2	-	-	-
Other Europe and FSU	1951	1996	1694	903	1	134	361	199	32
Non-Specified/Other	**7951**	**1029**	**4080**	**-**	**2**	**-**	**-**	**-**	**8**

Source: IEA/OECD Coal Statistics

(1) Earliest year for which split by coal type is available.

* Please refer to notes in *Principles and Definitions*.

IEA Europe

11. STEAM COAL EXPORTS BY DESTINATION*

(thousand tonnes)

	1978[1]	1980	1990	2000	2004	2005	2006	2007	2008e
Total Exports	**33590**	**34150**	**24778**	**29263**	**30666**	**27401**	**27189**	**28415**	**20198**
Exports to:									
Total OECD	**25347**	**27662**	**20278**	**28330**	**29860**	**26868**	**27002**	**28017**	**19970**
Australia	-	-	1	-	-	-	-	-	-
Austria	275	438	1216	1312	1622	1201	1316	1285	908
Belgium	2633	2373	1471	684	700	865	482	233	280
Canada	-	-	-	-	1	19	42	32	-
Czech Republic	274	2302	2282	864	783	719	946	1377	892
Denmark	4161	4348	1347	2382	1410	1154	745	821	627
Finland	4095	3692	2815	1228	1272	963	567	274	128
France	6035	5306	1167	2413	2606	3116	2708	1652	1894
Germany	3171	4138	4722	14426	16180	12840	15709	16897	9922
Greece	1	1	-	2	69	144	133	172	76
Hungary	-	-	-	279	258	300	264	158	104
Iceland	-	12	18	7	16	45	88	91	59
Ireland	540	772	793	468	649	595	509	519	459
Italy	1530	1242	600	923	96	245	155	806	1577
Japan	-	-	61	-	-	-	-	-	-
Korea	-	-	-	-	-	-	-	-	-
Luxembourg	52	96	3	93	42	38	30	96	74
Mexico	-	-	-	-	-	-	-	1	-
Netherlands	938	1409	1341	363	517	651	612	868	798
New Zealand	-	-	-	-	-	-	-	-	-
Norway	167	108	307	597	592	496	417	387	344
Poland	-	-	1	15	7	82	17	22	282
Portugal	15	9	186	5	216	437	144	228	254
Slovak Republic	237	322	-	286	294	257	206	169	143
Spain	21	13	275	441	102	58	145	203	153
Sweden	244	250	858	170	334	208	297	303	86
Switzerland	90	318	52	20	8	8	17	2	101
Turkey	74	-	-	-	19	66	-	-	-
United Kingdom	149	226	762	1351	1999	2314	1389	1389	809
United States	645	287	-	1	68	47	64	32	-
Total Non-OECD	**85**	**120**	**722**	**905**	**684**	**531**	**174**	**394**	**177**
Brazil	-	12	10	-	-	-	-	-	5
Chinese Taipei	-	-	-	-	1	-	-	-	-
Egypt	-	-	1	2	1	4	17	16	22
Hong Kong, China	-	-	-	1	-	-	-	-	-
India	-	-	1	-	46	1	1	1	1
Israel	-	-	-	-	-	5	1	-	-
Romania	-	-	16	-	-	-	4	-	-
Oth. Africa & Mid. East	31	33	375	3	501	436	2	275	23
Other Latin America	-	1	-	16	-	-	13	4	40
Other Asia & Oceania	-	-	3	4	1	4	1	16	2
Other Europe and FSU	54	74	316	879	134	81	135	82	84
Non-Specified/Other	**8158**	**6368**	**3778**	**28**	**122**	**2**	**13**	**4**	**51**

Source: IEA/OECD Coal Statistics

(1) Earliest year for which split by coal type is available.

* Please refer to notes in *Principles and Definitions*.

Australia*

Chart 1: TPES by fuel (Mtce)

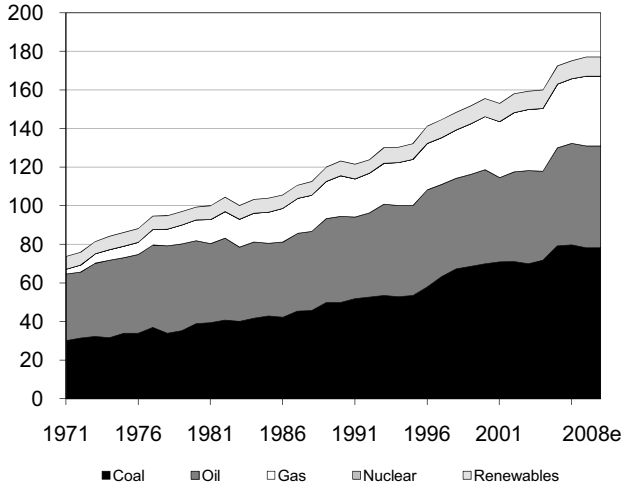


Chart 2: Coal supply indicators (1971 = 100)

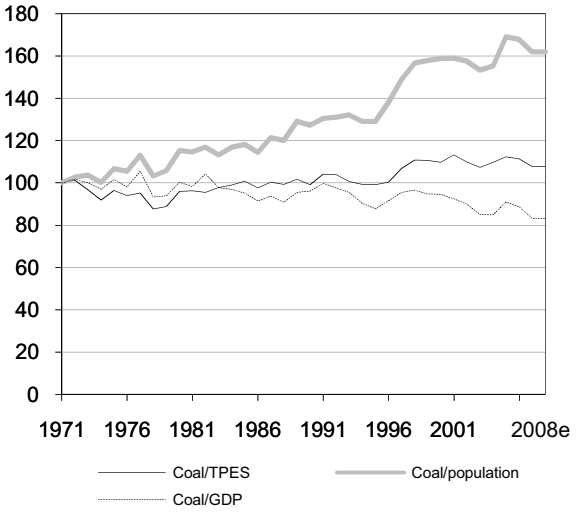


Chart 3: Primary coal supply (Mtce)

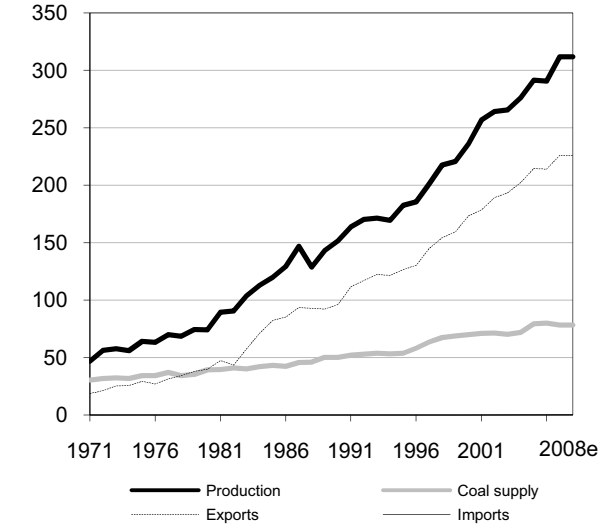


Chart 4: Coal consumption (Mtce)

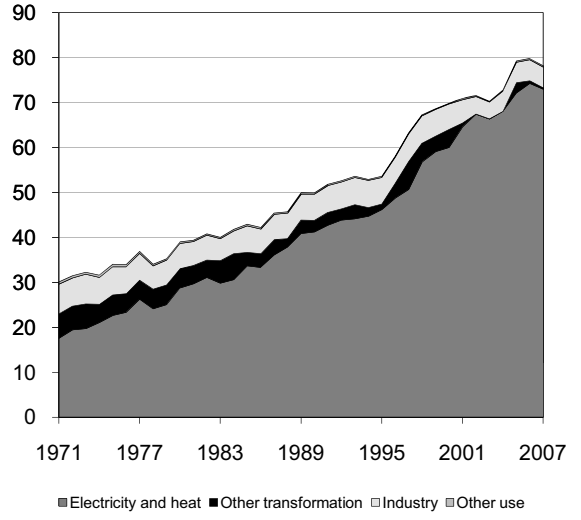


Chart 5: Electricity generation by fuel (TWh)

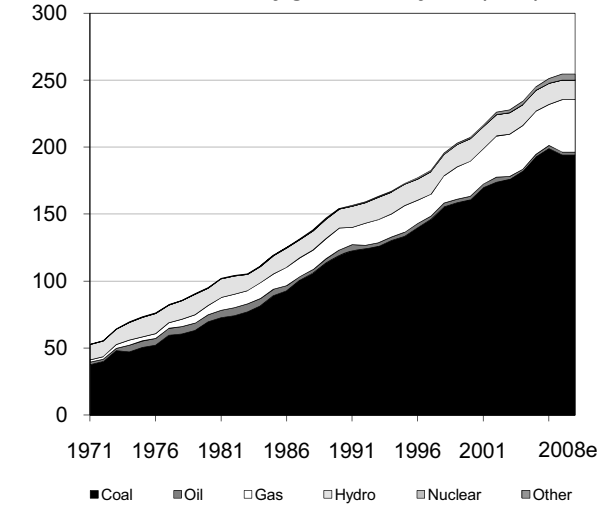
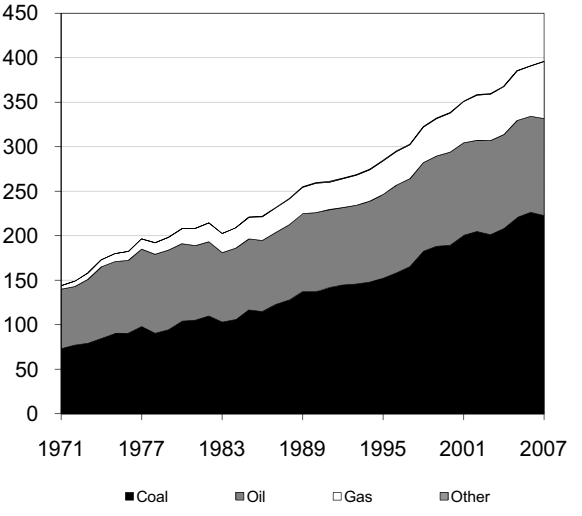


Chart 6: CO_2 emissions by fuel (Mt CO_2)



*Please refer to notes in *Principles and Definitions* . Peat is included in coal for all charts.

Australia

1. TOTAL PRIMARY ENERGY SUPPLY (TPES) BY FUEL*

	1973	1980	1990	2000	2006	2007	2008e	Average annual percent change 73-90	90-07
TPES (Mtce)	**81.51**	**99.43**	**123.18**	**155.61**	**175.18**	**177.24**	**184.29**	**2.46**	**2.16**
Coal and peat	32.26	39.03	49.97	69.92	79.85	78.22	81.26	2.61	2.67
Oil	37.98	42.96	44.57	48.78	52.51	52.84	55.47	0.95	1.01
Gas	4.83	10.66	21.12	27.53	33.47	36.22	37.75	9.07	3.22
Comb. renew/waste	5.04	5.16	5.66	7.19	7.13	7.67	7.71	0.68	1.81
Nuclear	-	-	-	-	-	-	-	-	-
Hydro	1.40	1.59	1.74	2.06	1.93	1.77	1.49	1.27	0.10
Geothermal	-	-	-	-	-	-	-	-	-
Solar, wind, tide	-	0.03	0.12	0.12	0.29	0.52	0.63	-	9.28
Net electricity trade(1)	-	-	-	-	-	-	-	-	-
Heat(2)	-	-	-	-	-	-	-	-	-

Source: *IEA/OECD Energy Balances of OECD Countries*

(1) Net trade between OECD and non-OECD countries.

(2) Ambient heat from heat pumps used in the transformation sector.

2. ENERGY SUPPLY, GDP AND POPULATION*

	1973	1980	1990	2000	2006	2007	2008e	Average annual percent change 73-90	90-07
GDP (2000 bil. US$)	174	210	281	400	486	508	520	2.85	3.54
TPES/GDP(1)	0.47	0.47	0.44	0.39	0.36	0.35	0.35	-0.38	-1.33
Population (millions)	13.6	14.8	17.2	19.3	20.8	21.1	21.1	1.37	1.23
TPES/population(1)	5.99	6.72	7.17	8.08	8.42	8.39	8.72	1.07	0.92
TPES/GDP(2)	120.1	121.6	112.6	100.0	92.5	89.6	91.0	-0.38	-1.33
Coal and peat supply/GDP(2)	105.8	106.2	101.6	100.0	93.9	88.0	89.3	-0.24	-0.84
Elec. consumption/GDP(2)	69.6	87.3	106.4	100.0	99.7	97.3	..	2.52	-0.52
Elec. generation (TWh)	64	95	154	207	251	255	265	5.28	2.99
Industrial production(2)	..	61.1	79.2	100.0	105.1	108.7	111.2	-	1.88

Source: *IEA/OECD Energy Balances of OECD Countries* , *OECD Main Economic Indicators*

(1) TPES/GDP in units of tce/2000 thousand US$, TPES/population in units of tce/capita.

(2) As index, 2000 = 100

3. COAL AND PEAT PRODUCTION BY TYPE*

	1978(1)	1980	1990	2000	2006	2007	2008e	Average annual percent change 78-90	90-07
Mtce:									
Coking coal	36.14	38.48	62.50	100.89	120.57	137.94	136.25	4.67	4.77
Steam coal	22.71	24.76	74.47	113.27	145.49	150.63	153.37	10.40	4.23
Brown coal	9.64	10.90	14.61	22.08	24.67	23.44	25.86	3.52	2.82
Peat	-	-	-	-	-	-	-	-	-
Mt:									
Coking coal	37.67	40.09	64.63	103.75	123.99	141.85	140.11	4.60	4.73
Steam coal	30.88	31.52	93.94	135.68	175.73	181.93	185.30	9.72	3.96
Brown coal	30.47	32.89	45.99	67.29	67.74	65.61	72.40	3.49	2.11
Peat	-	-	-	-	-	-	-	-	-

Source: *IEA/OECD Energy Balances of OECD Countries, IEA/OECD Energy Statistics of OECD Countries*

(1) Earliest year for which split by coal type is available.

* Please refer to notes in *Principles and Definitions* .

Australia

4. FINAL CONSUMPTION OF ENERGY BY FUEL*

(Mtce)

	1973	1980	1990	2000	2005	2006	2007	Average annual percent change 73-90	90-07
TFC[1]	**56.54**	**66.84**	**80.78**	**99.38**	**107.11**	**106.16**	**108.47**	**2.12**	**1.75**
Coal and peat	7.05	5.99	6.12	5.88	4.88	4.93	4.92	-0.83	-1.28
Oil	34.66	38.46	41.43	49.59	51.80	51.08	51.87	1.05	1.33
Gas	3.39	7.63	12.60	16.36	19.20	18.79	19.19	8.03	2.51
Comb. renew/wastes	4.99	5.00	4.65	6.20	5.78	5.53	6.04	-0.42	1.56
Geothermal	-	-	-	-	-	-	-	-	-
Solar, wind, tide	-	0.03	0.12	0.12	0.09	0.08	0.20	-	3.34
Electricity	6.45	9.73	15.87	21.22	25.37	25.76	26.24	5.45	3.00
Heat	-	-	-	-	-	-	-	-	-
of which:									
Total industry	**21.81**	**25.12**	**27.44**	**33.96**	**36.53**	**37.09**	**37.84**	**1.36**	**1.91**
Coal and peat	6.62	5.68	5.82	5.68	4.60	4.69	4.68	-0.76	-1.28
Oil	7.96	7.69	4.13	5.07	4.88	5.33	5.46	-3.79	1.66
Gas	2.25	5.05	8.11	10.23	12.01	11.85	12.21	7.83	2.44
Comb. renew/wastes	2.13	2.71	2.12	3.51	3.69	3.67	3.76	-0.04	3.43
Geothermal	-	-	-	-	-	-	-	-	-
Solar, wind, tide	-	-	-	-	-	-	-	-	-
Electricity	2.85	3.99	7.27	9.46	11.34	11.54	11.73	5.67	2.85
Heat	-	-	-	-	-	-	-	-	-
Total transport	**18.47**	**24.04**	**30.16**	**36.65**	**39.02**	**38.53**	**38.76**	**2.93**	**1.49**
Coal and peat	0.03	0.01	0.10	0.13	0.13	0.11	0.12	7.63	0.97
Oil	18.36	23.92	29.82	35.81	38.06	37.48	37.59	2.89	1.37
Gas	-	0.00	0.01	0.43	0.50	0.54	0.58	-	24.33
Comb. renew/wastes	-	-	-	-	0.02	0.08	0.15	-	-
Electricity	0.08	0.11	0.22	0.29	0.31	0.32	0.33	6.13	2.28
Residential	**7.21**	**8.63**	**10.70**	**12.94**	**14.29**	**14.01**	**14.61**	**2.35**	**1.85**
Coal and peat	0.27	0.09	0.02	0.00 e	0.01	0.01	0.01	-14.75	-6.83
Oil	1.13	1.12	0.54	0.50	0.42	0.38	0.38	-4.23	-2.06
Gas	0.67	1.58	2.76	3.66 e	4.24	4.15	4.15	8.73	2.43
Comb. renew/wastes	2.86	2.26	2.53	2.67	2.05	1.76	2.12	-0.72	-1.02
Geothermal	-	-	-	-	-	-	-	-	-
Solar, wind, tide	-	0.03	0.12	0.12	0.08	0.08	0.08	-	-2.43
Electricity	2.29	3.56	4.74	5.99	7.49	7.64	7.87	4.35	3.03
Heat	-	-	-	-	-	-	-	-	-
Comm & public services	**1.61**	**3.43**	**4.97**	**7.20**	**8.27**	**8.33**	**8.54**	**6.85**	**3.23**
Coal and peat	0.13	0.22	0.18	0.06 e	0.14	0.12	0.12	1.75	-2.44
Oil	0.16	0.72	0.37	0.45	0.69	0.81	0.84	5.00	5.03
Gas	0.22	0.55	1.07	1.55 e	1.40	1.35	1.35	9.80	1.39
Comb. renew/waste	-	0.03	-	0.01	0.01	0.01	0.01	-	-
Geothermal	-	-	-	-	-	-	-	-	-
Solar, wind, tide	-	-	-	-	0.01	0.01	0.13	-	-
Electricity	1.10	1.90	3.35	5.13	6.02	6.03	6.08	6.79	3.56
Heat	-	-	-	-	-	-	-	-	-
Non-energy use	**3.63**	**4.12**	**5.65**	**6.32**	**5.82**	**5.18**	**5.75**	**2.63**	**0.10**
Coal and peat	-	-	-	-	-	-	-	-	-
Oil	3.38	3.67	5.01	5.84	4.77	4.29	4.85	2.35	-0.18
Gas	0.26	0.45	0.64	0.49	1.05	0.89	0.89	5.54	1.97

Source: *IEA/OECD Energy Balances of OECD Countries*

(1) Total Final Consumption (TFC) excludes use in transformation and energy sectors.

* Please refer to notes in *Principles and Definitions*.

Australia

5. COAL BALANCE*

(Mtce)

	1973	1980	1990	2000	2006	2007	2008e	Average annual percent change 73-90	90-07
Production	57.5	74.1	151.6	236.2 e	290.7	312.0	315.5	5.9	4.3
Imports	-	0.0	-	-	0.0	0.0	0.0	-	-
Exports	-25.2	-39.7	-96.1	-173.5	-214.3	-226.2	-234.2	8.2	5.2
Stock changes	-0.0	4.6	-5.5	7.1	3.3	-7.7	-	x	x
Primary supply	**32.3**	**39.0**	**50.0**	**69.9**	**79.8**	**78.2**	**81.3**	**2.6**	**2.7**
Statistical difference	**-**	**0.0**	**0.1**	**-1.5**	**1.5**	**1.8**	**..**	**x**	**x**
Total transformation	**-25.2 e**	**-32.4 e**	**-43.5 e**	**-62.1 e**	**-76.0 e**	**-74.7 e**	**..**	**3.3**	**3.2**
Electricity and heat gen.	-19.7	-28.8	-41.3	-60.0 e	-74.3	-73.1	..	4.4	3.4
Main activity producers (1)	*-19.7*	*-28.1*	*-40.4*	*-59.4 e*	*-74.3*	*-73.0*	*..*	*4.3*	*3.5*
Autoproducers	-	*-0.7*	*-0.9*	*-0.7 e*	*-0.0*	*-0.0*	*..*	-	*-18.8*
Gas works	-0.1	-0.0	-	-	-	-	..	-	-
Coal transformation(2)	-5.4 e	-3.6 e	-2.2 e	-2.1 e	-1.7 e	-1.6 e	..	-5.1	-1.8
BKB plants	*-0.2*	*-0.2*	*-0.1*	*-0.0 e*	*-0.2*	*-0.2*	*..*	*-5.3*	*6.1*
Blast furnaces	*-2.4 e*	*-2.2 e*	*-1.4 e*	*-1.5 e*	*-1.0 e*	*-1.0 e*	*..*	*-3.3*	*-1.8*
Coke ovens	*-2.8*	*-1.2*	*-0.8*	*-0.5*	*-0.5*	*-0.5*	*..*	*-7.3*	*-3.1*
Patent fuel plants	-	-	-	-	-	-	..	-	-
Other transformation(3)	-	-	-	-	-	-	..	-	-
Own use	**-**	**-0.6**	**-0.5**	**-0.5**	**-0.4**	**-0.4**	**..**	**-**	**-0.9**
Distribution losses	**-**	**-**	**-**	**-**	**-**	**-**	**..**	**x**	**x**
Final consumption(4)	**7.1**	**6.0**	**6.1**	**5.9**	**4.9**	**4.9**	**..**	**-0.8**	**-1.3**
Industry sector(5)	6.6	5.7	5.8	5.7	4.7	4.7	..	-0.8	-1.3
Iron and steel	*3.0 e*	*2.9 e*	*2.1 e*	*1.8 e*	*0.8 e*	*0.9 e*	*..*	*-2.1*	*-5.1*
Chemical	*0.4*	*0.3*	*0.3*	*0.2 e*	*0.2*	*0.2*	*..*	*-2.5*	*-2.9*
Non-metallic minerals	*0.9*	*0.8*	*0.8*	*0.7 e*	*1.0*	*1.0*	*..*	*-0.7*	*1.1*
Paper, pulp and print	*0.3*	*0.3*	*0.3*	*0.3*	*0.3*	*0.3*	*..*	*-0.4*	*-0.5*
Transport sector(6)	0.0	0.0	0.1	0.1	0.1	0.1	..	7.6	1.0
Other sectors(7)	0.4	0.3	0.2	0.1	0.1	0.1	..	-4.1	-2.7
Comm. and pub. services	*0.1*	*0.2*	*0.2*	*0.1 e*	*0.1*	*0.1*	*..*	*1.7*	*-2.4*
Residential	*0.3*	*0.1*	*0.0*	*0.0 e*	*0.0*	*0.0*	*..*	*-14.7*	*-6.8*
Non-energy use	-	-	-	-	-	-	..	-	-

Source: *IEA/OECD Energy Balances of OECD Countries*

(1) Main activity electricity and heat generation includes district heating.

(2) Coal transformation refers to the transformation of coal and peat to secondary and tertiary products (mainly coke, briquettes, coke oven gas and blast furnace gas).

(3) Other transformation includes liquefaction and non-specified transformation.

(4) Final Consumption includes non-energy use and energy use (industry, transport and other sectors).

(5) Please refer to notes in *Principles and Definitions* for detailed explanation.

(6) Transport sector includes rail and inland waterways.

(7) Other sectors includes commercial and public services, agriculture, and residential.

* "Coal" refers to all types of coal, primary (anthracite, coking coal, other bituminous coal, sub-bituminous coal, lignite/brown coal, peat) and derived fuels (including patent fuel, BKB/peat briquettes, coke oven coke, gas coke, coal tar, coke oven gas, gas works gas, blast furnace gas and oxygen steel furnace gas). Quantities have been converted to Mtce using calorific values reported by the respective countries. Please refer to notes in *Principles and Definitions*.

Australia

6. USE OF COAL FOR SELECTED END-USES*

(million tonnes)

	1978	1980	1990	2000	2005	2006	2007	Average annual percent change 78-90	90-07
Steam coal	**24.24**	**27.37**	**43.37**	**56.03**	**67.50**	**68.91**	**68.04**	**4.97**	**2.68**
Total electricity and heat	20.89	23.87	38.20	51.10	62.62	63.98	62.95	5.16	2.98
Main activity producers	*20.53*	*23.50*	*37.75*	*50.91*	*62.62*	*63.98*	*62.95*	*5.21*	*3.05*
Autoproducers	*0.36*	*0.37*	*0.45*	*0.19*	-	-	-	*1.82*	-
Patent fuel/BKB plants	-	-	-	-	-	-	-	-	-
Coke ovens	-	-	-	-	-	-	-	-	-
Blast furnace inputs	-	-	-	-	-	-	-	-	-
Gas manufacture	0.04	0.02	-	-	-	-	-	-	-
Industry sector	3.17	3.30	4.85	4.69	4.63	4.71	4.68	3.59	-0.21
Iron and steel	*0.37*	*0.32*	*0.34*	*0.10*	*0.05*	*0.02*	*0.02*	*-0.73*	*-16.40*
Chemical	*0.15*	*0.13*	*0.13*	*0.09*	*0.09*	*0.09*	*0.09*	*-1.34*	*-2.51*
Non-metallic minerals	*0.88*	*0.90*	*0.97*	*0.79*	*1.17*	*1.19*	*1.12*	*0.83*	*0.81*
Paper, pulp and print	*0.28*	*0.21*	*0.35*	*0.33*	*0.41*	*0.46*	*0.44*	*1.89*	*1.42*
Other industry	*1.49*	*1.73*	*3.06*	*3.39*	*2.92*	*2.96*	*3.02*	*6.15*	*-0.08*
Res, comm & pub serv[(1)]	0.25	0.22	0.15	0.04	0.05	0.04	0.04	-3.93	-8.35
Non-energy use	-	-	-	-	-	-	-	-	-
Coking coal	**7.22**	**7.05**	**5.93**	**4.80**	**5.35**	**4.68**	**4.71**	**-1.62**	**-1.35**
Total electricity and heat	-	-	-	-	-	-	-	-	-
Main activity producers	-	-	-	-	-	-	-	-	-
Autoproducers	-	-	-	-	-	-	-	-	-
Patent fuel/BKB plants	-	-	-	-	-	-	-	-	-
Coke ovens	7.22	7.05	5.93	4.80	5.35	4.68	4.71	-1.62	-1.35
Blast furnace inputs	-	-	-	-	-	-	-	-	-
Gas manufacture	-	-	-	-	-	-	-	-	-
Industry sector	-	-	-	-	-	-	-	-	-
Iron and steel	-	-	-	-	-	-	-	-	-
Chemical	-	-	-	-	-	-	-	-	-
Non-metallic minerals	-	-	-	-	-	-	-	-	-
Paper, pulp and print	-	-	-	-	-	-	-	-	-
Other industry	-	-	-	-	-	-	-	-	-
Res, comm & pub serv[(1)]	-	-	-	-	-	-	-	-	-
Non-energy use	-	-	-	-	-	-	-	-	-
Brown coal/lignite	**30.47**	**32.89**	**45.99**	**67.29**	**67.15**	**67.74**	**65.61**	**3.49**	**2.11**
Total electricity and heat	27.32	29.23	44.14	66.34	66.29	67.09	65.55	4.08	2.35
Main activity producers	*26.32*	*28.00*	*43.07*	*65.25*	*66.29*	*67.09*	*65.55*	*4.19*	*2.50*
Autoproducers	*0.99*	*1.23*	*1.07*	*1.09*	-	-	-	*0.62*	-
Patent fuel/BKB plants	2.85	3.35	1.78	0.96	0.90	0.69	0.62	-3.84	-6.02
Coke ovens	-	-	-	-	-	-	-	-	-
Gas manufacture	-	-	-	-	-	-	-	-	-
Industry sector	0.31	0.31	0.07	-	0.00	0.00	0.00	-11.23	-19.07
Iron and steel	-	-	-	-	-	-	-	-	-
Chemical	-	-	*0.03*	-	-	-	-	-	-
Non-metallic minerals	-	-	*0.00*	-	*0.00*	*0.00*	*0.00*	-	-
Paper, pulp and print	*0.26*	*0.27*	-	-	-	-	-	-	-
Other industry	*0.04*	*0.04*	*0.05*	-	-	-	-	*0.96*	-
Res, comm & pub serv[(1)]	0.00	-	-	-	-	-	-	-	-
Non-energy use	-	-	-	-	-	-	-	-	-

Source: *IEA/OECD Energy Statistics of OECD Countries*

(1) Residential, commercial and public services.

* Please refer to notes in *Principles and Definitions*.

Australia

7. FUEL PRICES TO END USERS*

	1978[1]	1980	1990	2000	2004	2005	2006	2007	2008
				(US dollars / tce)					
For electricity generation									
Steam coal	10.83	14.47	29.05	..	..	..	..	..	..
Heavy fuel oil	67.03	144.85	..	..	..	..	..	..	..
Natural gas	..	..	..	..	..	..	..	..	..
For industry									
Steam coal	..	..	..	..	..	..	..	..	..
Coking coal	29.69	29.57	..	..	..	..	..	..	..
High sulphur fuel oil	67.03	144.85	..	..	..	..	..	..	..
Low sulphur fuel oil	..	..	..	..	..	..	..	..	..
Natural gas	34.33	56.81	95.78	..	..	..	..	..	..
				(Australian dollars / unit)[2]					
For electricity generation									
Steam coal	8.91	11.97	35.11	..	..	..	..	..	..
Heavy fuel oil	80.22	174.24	..	..	..	..	..	..	..
Natural gas	..	..	..	..	..	..	..	..	..
For industry									
Steam coal	..	..	..	..	..	..	..	..	..
Coking coal	25.19	25.22	..	..	..	..	..	..	..
High sulphur fuel oil	80.22	174.24	..	..	..	..	..	..	..
Low sulphur fuel oil	..	..	..	..	..	..	..	..	..
Natural gas	38.52	64.06	157.84	..	..	..	..	..	..

Source: *IEA/OECD Energy Prices & Taxes*

(1) Earliest year for which split by coal type is available.

(2) For steam coal, coking coal and heavy fuel oil per metric tonne; for natural gas per 10^7 kilocalories GCV.

* Please refer to notes in *Principles and Definitions*.

8. COAL TRADE BY TYPE OF COAL*

(Mtce)

	1973	1980	1990	2000	2004	2005	2006	2007	2008e
Total imports	**-**	**0.00**	**-**	**-**	**-**	**-**	**0.04**	**0.04**	**0.01**
Hard coal	-	0.00	-	-	-	-	-	-	-
Coking coal	*..*	*-*	*-*	*-*	*-*	*-*	*-*	*-*	*-*
Steam coal	*..*	*0.00*	*-*	*-*	*-*	*-*	*-*	*-*	*-*
Brown coal / lignite	-	-	-	-	-	-	-	-	-
Peat	-	-	-	-	-	-	-	-	-
Coal products[1]	-	-	-	-	-	-	0.04	0.04	0.01
Total exports	**25.21**	**39.73**	**96.07**	**173.46**	**202.38**	**214.71**	**214.26**	**226.16**	**234.23**
Hard coal	25.21	39.60	95.54	173.45	202.16	214.71	214.26	226.16	234.23
Coking coal	*..*	*32.15*	*55.58*	*96.43*	*107.76*	*120.48*	*116.02*	*127.55*	*133.15*
Steam coal	*..*	*7.45*	*39.96*	*77.02*	*94.40*	*94.23*	*98.24*	*98.61*	*101.08*
Brown coal / lignite	-	-	-	-	-	-	-	-	-
Peat	-	-	-	-	-	-	-	-	-
Coal products[1]	-	0.12	0.52	0.02	0.23	0.00	-	-	-

Source: *IEA/OECD Energy Balances of OECD Countries, IEA/OECD Energy Statistics of OECD Countries*

(1) Coal products includes products derived from coal, for example: coke, coal tar, briquettes, patent fuels.

* Please refer to notes in *Principles and Definitions*.

Australia

10. COKING COAL EXPORTS BY DESTINATION*

(thousand tonnes)

	1978[1]	1980	1990	2000	2004	2005	2006	2007	2008e
Total Exports	**31029**	**33487**	**57750**	**99161**	**110815**	**123896**	**119312**	**131164**	**136924**
Exports to:									
Total OECD	**29145**	**31847**	**43802**	**73195**	**73807**	**82381**	**77778**	**79350**	**85364**
Australia	-	-	-	-	-	-	-	-	-
Austria	-	-	-	-	-	-	-	-	-
Belgium	374	175	1054	1833	1255	1881	1994	1923	2927
Canada	-	-	-	-	-	-	-	-	-
Czech Republic	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	324	392	377	284	304
France	1173	903	1917	3739	4016	3895	3329	3444	3056
Germany	-	-	25	2619	1576	1746	1843	-	1618
Greece	191	48	-	-	-	-	-	-	150
Hungary	-	-	-	-	-	-	-	-	-
Iceland	-	-	-	-	-	-	-	-	-
Ireland	-	-	-	-	-	14	-	-	-
Italy	1319	1164	1181	2914	1930	2527	2260	2287	2255
Japan	22640	25579	28579	39174	41123	44665	43949	48689	50203
Korea	1330	2266	4944	10358	10138	12434	7704	6254	8356
Luxembourg	-	-	-	-	-	-	-	-	-
Mexico	10	-	-	666	451	588	1513	1019	857
Netherlands	992	329	713	2194	4670	5617	7009	7139	6242
New Zealand	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-
Poland	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-
Slovak Republic	-	-	-	-	-	-	-	-	-
Spain	593	698	694	1767	2198	2090	1570	1735	2464
Sweden	-	-	702	992	1207	1226	1170	1258	1302
Switzerland	-	-	-	-	-	-	-	-	-
Turkey	-	-	912	1451	682	720	1098	1563	1845
United Kingdom	469	685	3081	5488	4063	4451	3925	3755	3785
United States	54	-	-	-	174	135	37	-	-
Total Non-OECD	**1884**	**1634**	**13948**	**25756**	**30836**	**37385**	**32690**	**41162**	**40652**
Brazil	164	-	1291	4988	3847	3094	3173	3052	3866
Chinese Taipei	981	837	2798	6273	5311	7091	7717	8036	6392
Egypt	-	157	323	-	-	353	225	498	366
Hong Kong, China	-	-	-	-	-	-	-	-	-
India	32	227	4844	10588	13491	17193	16122	19534	24229
Israel	-	-	-	-	-	129	194	273	281
Romania	675	267	2256	-	190	46	71	334	410
Oth. Africa & Mid. East	-	-	454	1554	2354	2807	499	2289	2016
Other Latin America	32	60	500	1058	1038	1339	1229	1473	1057
Other Asia & Oceania	-	86	1294	1225	3996	4930	3239	3371	2035
Other Europe and FSU	-	-	188	70	609	403	221	2302	-
Non-Specified/Other	**-**	**6**	**-**	**210**	**6172**	**4130**	**8844**	**10652**	**10908**

Source: IEA/OECD Coal Statistics

(1) Earliest year for which split by coal type is available.

* Please refer to notes in *Principles and Definitions*.

Australia

11. STEAM COAL EXPORTS BY DESTINATION*

(thousand tonnes)

	1978[1]	1980	1990	2000	2004	2005	2006	2007	2008e
Total Exports	**5522**	**8897**	**45646**	**87801**	**107611**	**107415**	**111984**	**112424**	**115265**
Exports to:									
Total OECD	**4809**	**6834**	**37656**	**66574**	**86230**	**83883**	**87658**	**83378**	**88785**
Australia	-	-	-	-	-	-	-	-	-
Austria	-	-	-	-	-	-	-	-	-
Belgium	-	103	129	428	3	17	-	54	41
Canada	-	-	-	-	-	-	-	-	-
Czech Republic	-	-	-	-	-	-	-	-	-
Denmark	150	304	1149	142	785	-	278	160	-
Finland	-	-	-	-	-	-	-	-	-
France	682	525	934	434	668	469	741	1202	684
Germany	458	686	125	72	258	115	-	129	-
Greece	-	-	-	110	-	-	-	-	-
Hungary	-	-	-	-	-	-	-	-	-
Iceland	-	-	-	-	-	-	-	-	-
Ireland	-	-	133	284	977	568	-	254	527
Italy	-	-	-	428	509	141	-	-	-
Japan	1489	3581	26569	47449	59036	57574	59599	58813	66959
Korea	-	11	3633	11452	16221	17970	20239	15061	18552
Luxembourg	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	2287	4238	4762	5069	818
Netherlands	320	353	4236	2550	1590	760	301	797	187
New Zealand	-	-	-	16	106	56	82	85	80
Norway	-	-	-	-	-	-	-	-	-
Poland	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	248	-	-	-	-
Slovak Republic	-	-	-	-	-	-	-	-	-
Spain	-	-	205	1445	1390	671	1069	986	545
Sweden	-	-	155	83	119	164	69	101	253
Switzerland	-	-	29	-	-	-	-	-	-
Turkey	-	-	-	55	48	45	-	-	-
United Kingdom	932	1211	328	1499	1879	993	425	600	71
United States	778	60	31	127	106	102	93	67	68
Total Non-OECD	**193**	**1159**	**7990**	**21227**	**21347**	**23532**	**24326**	**29046**	**26480**
Brazil	-	-	158	-	-	33	55	111	29
Chinese Taipei	76	991	3046	10034	9894	14329	13205	16233	18559
Egypt	-	-	-	-	-	-	-	-	-
Hong Kong, China	-	-	2443	419	1202	374	77	14	-
India	-	-	47	2469	1835	1461	1495	744	661
Israel	-	-	528	2623	1716	1165	320	507	177
Romania	-	49	33	-	-	-	-	82	-
Oth. Africa & Mid. East	-	-	-	-	-	-	-	-	-
Other Latin America	-	-	120	1373	1218	412	826	671	420
Other Asia & Oceania	117	119	1615	4309	5351	5758	8348	10684	6634
Other Europe and FSU	-	-	-	-	131	-	-	-	-
Non-Specified/Other	**520**	**904**	**-**	**-**	**34**	**-**	**-**	**-**	**-**

Source: IEA/OECD Coal Statistics

(1) Earliest year for which split by coal type is available.

* Please refer to notes in *Principles and Definitions*.

Australia

13. COAL EXPORT VALUES BY DESTINATION*

(average unit value, FOB, US$/tonne)

	1988	1990	1995	2003	2004	2005	2006	2007	2008
Coking coal[1]	**40.27**	**47.72**	**44.23**	**39.75**	**48.84**	**88.94**	**98.27**	**84.16**	**194.87**
Exports to:									
Belgium	41.53	51.66	44.65	40.12	52.40	104.61	102.26	89.48	193.95
Canada	x	x	x	x	x	x	x	x	x
Denmark	x	x	x	x	x	x	x	x	x
Finland	x	x	x	44.79	53.57	125.25	114.87	104.79	303.82
France	36.78	47.00	43.07	39.06	46.79	96.94	100.91	89.99	193.92
Germany	x	46.30	43.41	44.75	52.50	99.12	117.71	102.27	240.18
Greece	x	x	x	x	x	x	x	66.59	x
Ireland	x	x	x	x	32.97	x	x	x	x
Italy	36.30	46.76	42.06	45.51	51.40	102.14	116.96	99.64	229.97
Japan	40.02	46.98	43.37	36.18	45.51	83.74	94.04	79.50	193.79
Netherlands	39.43	50.32	44.75	45.45	52.07	98.18	102.32	92.15	213.20
Norway	x	x	x	x	x	x	x	x	x
Portugal	x	x	49.00	x	x	x	x	x	x
Spain	38.17	48.27	48.65	42.51	51.15	98.95	111.44	95.80	231.74
Sweden	38.41	50.15	48.95	47.84	55.50	117.03	114.40	96.65	275.66
Switzerland	x	x	x	x	x	x	x	x	x
Turkey	39.17	50.25	44.26	45.07	52.53	108.84	92.04	77.14	237.21
United Kingdom	36.89	47.25	45.13	43.34	53.67	100.80	104.06	91.38	200.63
Other OECD	x	x	x	x	x	x	x	x	x
Non-OECD	x	x	x	x	x	x	x	x	x
Steam coal[1]	**30.77**	**38.34**	**34.99**	**25.41**	**37.65**	**48.86**	**47.05**	**51.11**	**92.23**
Exports to:									
Belgium	29.60	38.42	33.43	21.12	63.04	x	67.08	x	153.74
Canada	x	x	x	x	x	x	x	x	x
Denmark	24.14	32.29	24.73	23.76	22.50	44.09	55.39	x	x
Finland	42.19	x	x	x	x	x	x	x	x
France	24.80	33.82	32.97	24.05	29.77	45.88	46.28	44.93	75.81
Germany	28.03	37.74	29.61	28.01	51.32	x	42.03	x	x
Greece	29.09	x	x	x	x	x	x	x	x
Ireland	x	x	34.14	24.86	28.34	29.92	x	75.25	129.29
Italy	x	x	37.75	24.77	31.26	x	x	x	x
Japan	32.93	40.03	36.85	26.00	38.45	49.42	50.59	54.61	103.23
Netherlands	27.20	36.31	33.03	26.69	42.90	60.71	50.50	49.60	86.94
Norway	x	x	x	x	x	x	x	x	x
Portugal	x	x	31.12	25.14	x	x	x	x	x
Spain	27.23	32.00	x	25.33	26.26	42.82	51.11	71.08	122.95
Sweden	28.09	x	37.85	35.16	42.91	67.75	66.81	60.32	109.33
Switzerland	x	x	x	x	x	x	x	x	x
Turkey	x	x	x	36.49	36.39	x	x	x	x
United Kingdom	34.46	35.45	x	24.05	35.39	54.27	46.30	x	125.83
Other OECD	x	x	x	x	x	x	x	x	x
Non-OECD	x	x	x	x	x	x	x	x	x

Source: IEA/OECD Coal Statistics

Note: On occasion, shipment of extremely small quantities of high valued coal results in high export costs.

(1) Weighted average of individual countries using import volumes as weights.

* Please refer to notes in *Principles and Definitions* .

Austria*

Chart 1: TPES by fuel (Mtce)

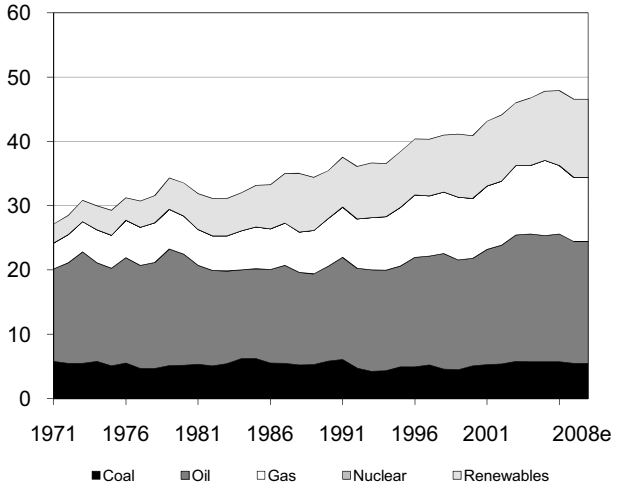


Chart 2: Coal supply indicators (1971 = 100)

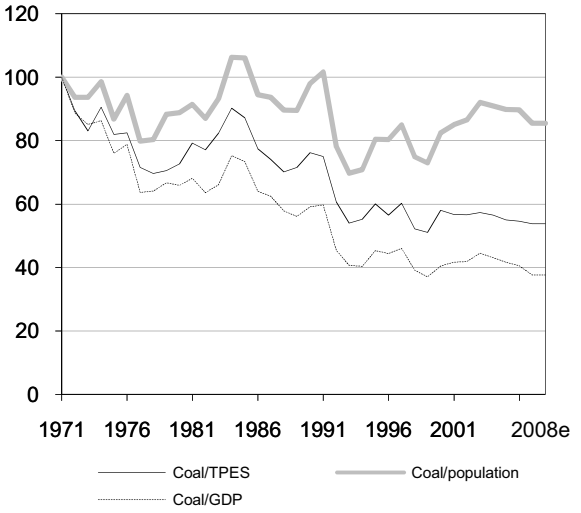


Chart 3: Primary coal supply (Mtce)

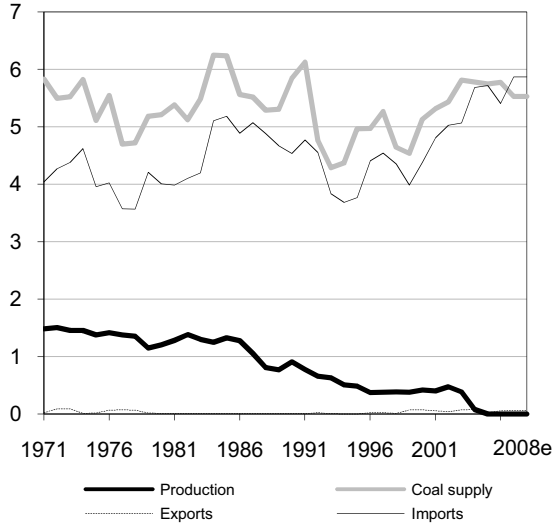


Chart 4: Coal consumption (Mtce)

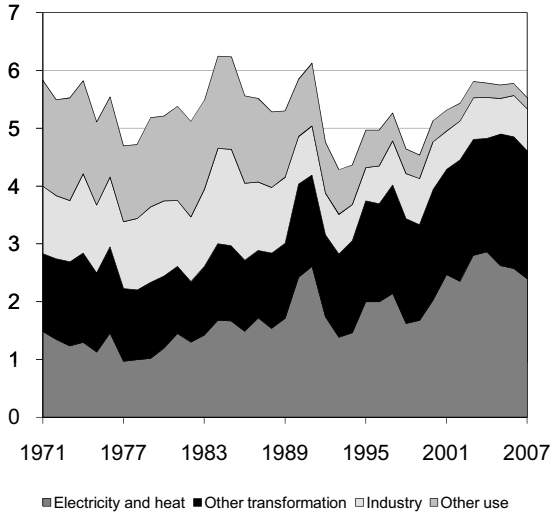


Chart 5: Electricity generation by fuel (TWh)

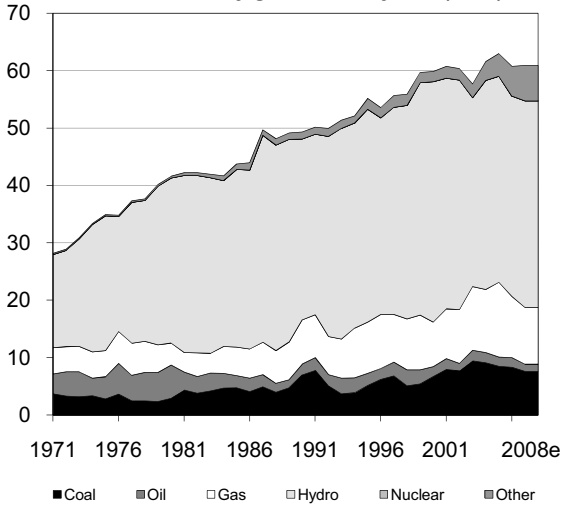
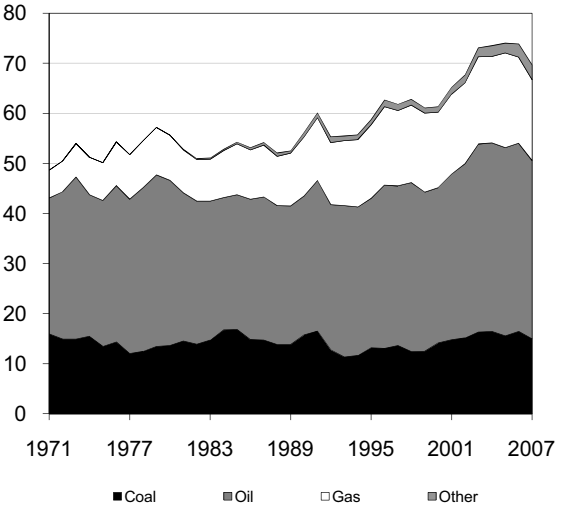


Chart 6: CO_2 emissions by fuel (Mt CO_2)



*Please refer to notes in *Principles and Definitions* . Peat is included in coal for all charts.

Austria

1. TOTAL PRIMARY ENERGY SUPPLY (TPES) BY FUEL*

	1973	1980	1990	2000	2006	2007	2008e	Average annual percent change 73-90	90-07
TPES (Mtce)	**30.68**	**33.08**	**35.40**	**40.74**	**48.79**	**47.40**	**46.15**	**0.85**	**1.73**
Coal and peat	5.53	5.22	5.85	5.13	5.78	5.53	4.86	0.34	-0.33
Oil	17.30	17.26	14.77	16.69	19.85	18.93	18.52	-0.93	1.47
Gas	4.72	5.94	7.40	9.31	10.65	9.97	10.29	2.68	1.76
Comb. renew/waste	1.02	1.62	3.54	4.49	6.97	7.28	6.79	7.57	4.34
Nuclear	-	-	-	-	-	-	-	-	-
Hydro	2.30	3.53	3.87	5.14	4.29	4.42	4.63	3.10	0.79
Geothermal	-	-	0.01	0.03	0.05	0.05	0.05	-	13.72
Solar, wind, tide	-	-	0.02	0.10	0.36	0.40	0.41	-	18.90
Net electricity trade[1]	-0.19	-0.49	-0.06	-0.17	0.84	0.81	0.60	-6.89	-
Heat[2]	-	-	-	-	0.01	0.01	0.01	-	-

Source: *IEA/OECD Energy Balances of OECD Countries*

(1) Net trade between OECD and non-OECD countries.

(2) Ambient heat from heat pumps used in the transformation sector.

2. ENERGY SUPPLY, GDP AND POPULATION*

	1973	1980	1990	2000	2006	2007	2008e	Average annual percent change 73-90	90-07
GDP (2000 bil. US$)	98	119	149	191	215	221	225	2.50	2.35
TPES/GDP[1]	0.31	0.28	0.24	0.21	0.23	0.21	0.20	-1.62	-0.61
Population (millions)	7.6	7.5	7.7	8.0	8.3	8.3	8.3	0.07	0.47
TPES/population[1]	4.04	4.38	4.61	5.08	5.89	5.70	5.58	0.77	1.26
TPES/GDP[2]	147.1	130.3	111.5	100.0	106.6	100.5	96.1	-1.62	-0.61
Coal and peat supply/GDP[2]	210.2	163.0	146.2	100.0	100.2	93.0	80.3	-2.12	-2.62
Elec. consumption/GDP[2]	94.6	101.5	105.1	100.0	99.4	96.5	..	0.62	-0.50
Elec. generation (TWh)	31	42	49	60	61	61	64	2.78	1.25
Industrial production[2]	42.9	52.5	68.9	100.0	125.9	132.8	135.3	2.83	3.93

Source: *IEA/OECD Energy Balances of OECD Countries* , *OECD Main Economic Indicators*

(1) TPES/GDP in units of tce/2000 thousand US$, TPES/population in units of tce/capita.

(2) As index, 2000 = 100

3. COAL AND PEAT PRODUCTION BY TYPE*

	1978[1]	1980	1990	2000	2006	2007	2008e	Average annual percent change 78-90	90-07
Mtce:									
Coking coal	-	-	-	-	-	-	-	-	-
Steam coal	-	-	-	-	-	-	-	-	-
Brown coal	1.35	1.20	0.91	0.42	-	-	-	-3.25	-
Peat	-	-	0.00	0.00	0.00	0.00	0.00	-	-
Mt:									
Coking coal	-	-	-	-	-	-	-	-	-
Steam coal	-	-	-	-	-	-	-	-	-
Brown coal	3.08	2.87	2.45	1.25	-	-	-	-1.88	-
Peat	-	-	0.00	0.00	0.00	0.00	0.00	-	-

Source: *IEA/OECD Energy Balances of OECD Countries, IEA/OECD Energy Statistics of OECD Countries*

(1) Earliest year for which split by coal type is available.

* Please refer to notes in *Principles and Definitions* .

Austria

4. FINAL CONSUMPTION OF ENERGY BY FUEL*

(Mtce)

								Average annual percent change	
	1973	**1980**	**1990**	**2000**	**2005**	**2006**	**2007**	**73-90**	**90-07**
TFC[1]	**23.73**	**26.63**	**28.08**	**33.59**	**39.11**	**39.72**	**38.49**	**1.00**	**1.87**
Coal and peat	2.84	2.77	1.82	1.20	0.85	0.92	0.92	-2.59	-3.92
Oil	14.21	13.94	12.64	14.73	17.79	17.73	16.84	-0.69	1.70
Gas	2.58	4.09	4.36	6.12	7.02	6.79	6.49	3.14	2.36
Comb. renew/wastes	0.99	1.51	3.11	3.56	4.41	4.88	4.92	7.00	2.73
Geothermal	-	-	0.01	0.01	0.01	0.01	0.01	-	2.76
Solar, wind, tide	-	-	0.02	0.09	0.13	0.14	0.15	-	12.29
Electricity	3.11	4.06	5.25	6.42	7.01	7.16	7.17	3.14	1.84
Heat	-	0.27	0.87	1.47	1.89	2.09	1.99	-	4.95
of which:									
Total industry	**7.46**	**7.04**	**7.30**	**8.55**	**9.59**	**10.49**	**10.68**	**-0.13**	**2.27**
Coal and peat	1.06	1.30	0.82	0.83	0.62	0.72	0.73	-1.45	-0.71
Oil	3.19	1.42	0.95	0.80	0.96	1.12	1.05	-6.85	0.59
Gas	1.68	2.27	2.33	3.00	3.41	3.41	3.34	1.96	2.14
Comb. renew/wastes	0.05	0.30	0.87	1.20	1.27	1.68	1.85	18.45	4.57
Geothermal	-	-	-	-	-	-	-	-	-
Solar, wind, tide	-	-	-	-	-	-	-	-	-
Electricity	1.49	1.74	2.21	2.54	3.07	3.28	3.40	2.35	2.58
Heat	-	-	0.11	0.17	0.25	0.29	0.31	-	6.02
Total transport	**5.53**	**5.84**	**6.94**	**9.39**	**12.39**	**11.87**	**12.11**	**1.35**	**3.32**
Coal and peat	0.16	0.02	0.00	0.00	-	-	-	-21.12	-
Oil	5.12	5.49	6.46	8.62	11.58	11.02	11.10	1.38	3.23
Gas	0.03	0.05	0.14	0.33	0.33	0.28	0.27	9.94	4.17
Comb. renew/wastes	0.00	0.00	0.00	0.01	0.08	0.18	0.34	-2.02	33.48
Electricity	0.22	0.28	0.34	0.43	0.40	0.40	0.39	2.73	0.82
Residential	**8.17**	**7.28**	**8.33**	**9.10**	**10.13**	**9.75**	**8.83**	**0.12**	**0.35**
Coal and peat	1.54	1.29	0.92	0.31	0.19	0.16	0.15	-2.97	-10.17
Oil	4.33	3.11	2.44	2.46	2.51	2.28	1.89	-3.33	-1.47
Gas	0.62	0.59	1.11	1.94	2.19	1.98	1.82	3.51	2.94
Comb. renew/wastes	0.93	1.21	1.98	2.04	2.56	2.53	2.27	4.54	0.79
Geothermal	-	-	-	-	-	-	-	-	-
Solar, wind, tide	-	-	0.01	0.05	0.08	0.09	0.10	-	13.09
Electricity	0.75	1.08	1.46	1.74	1.86	1.89	1.83	4.03	1.34
Heat	-	-	0.40	0.56	0.74	0.81	0.78	-	3.93
Comm & public services	**0.71**	**2.62**	**2.45**	**3.47**	**3.81**	**4.14**	**3.51**	**7.57**	**2.14**
Coal and peat	0.06	0.15	0.03	0.04	0.02	0.02	0.02	-4.11	-2.39
Oil	0.02	1.20	0.56	0.53	0.44	0.75	0.29	21.96	-3.76
Gas	0.07	0.43	0.27	0.48	0.70	0.72	0.70	8.32	5.81
Comb. renew/waste	-	-	0.11	0.11	0.17	0.17	0.16	-	1.90
Geothermal	-	-	0.01	0.01	0.01	0.01	0.01	-	2.76
Solar, wind, tide	-	-	0.01	0.04	0.05	0.05	0.06	-	11.13
Electricity	0.56	0.83	1.12	1.55	1.52	1.45	1.39	4.15	1.31
Heat	-	-	0.35	0.73	0.89	0.97	0.89	-	5.61
Non-energy use	**1.76**	**2.30**	**2.22**	**2.26**	**2.27**	**2.58**	**2.48**	**1.39**	**0.66**
Coal and peat	0.00	0.00	0.01	0.01	0.02	0.02	0.02	12.38	0.90
Oil	1.56	1.56	1.70	1.89	1.89	2.17	2.12	0.50	1.31
Gas	0.19	0.73	0.50	0.35	0.36	0.39	0.34	5.85	-2.26

Source: *IEA/OECD Energy Balances of OECD Countries*

(1) Total Final Consumption (TFC) excludes use in transformation and energy sectors.

* Please refer to notes in *Principles and Definitions*.

Austria

5. COAL BALANCE*

(Mtce)

	1973	1980	1990	2000	2006	2007	2008e	Average annual percent change 73-90	90-07
Production	1.5	1.2	0.9	0.4	0.0	0.0	0.0	-2.7	-37.6
Imports	4.4	4.0	4.5	4.4	5.4	5.9	5.0	0.2	1.5
Exports	-0.1	-0.0	-0.0	-0.1	-0.1	-0.1	-0.0	-17.0	18.1
Stock changes	-0.2	0.0	0.4	0.4	0.4	-0.3	-0.1	x	x
Primary supply	**5.5**	**5.2**	**5.9**	**5.1**	**5.8**	**5.5**	**4.9**	**0.3**	**-0.3**
Statistical difference	**0.0**	**0.0**	**-0.0**	**-0.1**	**-0.0**	**0.0**	**..**	**x**	**x**
Total transformation	**-2.4 e**	**-2.3 e**	**-3.4 e**	**-3.2 e**	**-3.9 e**	**-3.7 e**	**..**	**2.1**	**0.5**
Electricity and heat gen.	-1.2	-1.2	-2.4	-2.0	-2.6	-2.4	..	4.0	-0.1
Main activity producers (1)	*-1.0*	*-1.0*	*-2.1*	*-1.6*	*-2.1*	*-1.9*	*..*	*4.2*	*-0.7*
Autoproducers	*-0.2*	*-0.2*	*-0.3*	*-0.4*	*-0.5*	*-0.5*	*..*	*3.3*	*2.9*
Gas works	-0.1	-0.1	-	-	-	-	..	-	-
Coal transformation(2)	-1.1 e	-1.0 e	-0.9 e	-1.1 e	-1.3 e	-1.3 e	..	-0.6	1.9
BKB plants	*0.1*	-	-	-	-	-	*..*	-	-
Blast furnaces	*-1.0 e*	*-0.9 e*	*-0.8 e*	*-1.0 e*	*-1.2 e*	*-1.2 e*	*..*	*-1.5*	*2.3*
Coke ovens	*-0.1*	*-0.1*	*-0.1*	*-0.1*	*-0.1*	*-0.1*	*..*	*3.0*	*-1.3*
Patent fuel plants	-	-	-	-	-	-	*..*	-	-
Other transformation(3)	-	-	-	-	-	-	..	-	-
Own use	**-0.2**	**-0.1**	**-0.7**	**-0.7**	**-0.9**	**-0.7**	**..**	**6.1**	**0.7**
Distribution losses	**-0.1**	**-0.0**	**-**	**-**	**-0.0**	**-0.2**	**..**	**x**	**x**
Final consumption(4)	**2.8**	**2.8**	**1.8**	**1.2**	**0.9**	**0.9**	**..**	**-2.6**	**-3.9**
Industry sector(5)	1.1	1.3	0.8	0.8	0.7	0.7	..	-1.5	-0.7
Iron and steel	*0.7 e*	*1.1 e*	*0.5 e*	*0.4 e*	*0.4 e*	*0.3 e*	*..*	*-2.5*	*-2.1*
Chemical	*0.0*	*0.0*	*0.0*	*0.1*	*0.0*	*0.0*	*..*	*-1.3*	*0.4*
Non-metallic minerals	*0.1*	*0.0*	*0.2*	*0.2*	*0.2*	*0.3*	*..*	*7.5*	*1.2*
Paper, pulp and print	*0.0*	*0.0*	*0.1*	*0.1*	*0.1*	*0.1*	*..*	*4.4*	*1.1*
Transport sector(6)	0.2	0.0	0.0	0.0	-	-	..	-21.1	-
Other sectors(7)	1.6	1.4	1.0	0.4	0.2	0.2	..	-2.9	-9.7
Comm. and pub. services	*0.1*	*0.2*	*0.0*	*0.0*	*0.0*	*0.0*	*..*	*-4.1*	*-2.4*
Residential	*1.5*	*1.3*	*0.9*	*0.3*	*0.2*	*0.1*	*..*	*-3.0*	*-10.2*
Non-energy use	0.0	0.0	0.0	0.0	0.0	0.0	..	12.4	0.9

Source: *IEA/OECD Energy Balances of OECD Countries*

(1) Main activity electricity and heat generation includes district heating.

(2) Coal transformation refers to the transformation of coal and peat to secondary and tertiary products (mainly coke, briquettes, coke oven gas and blast furnace gas).

(3) Other transformation includes liquefaction and non-specified transformation.

(4) Final Consumption includes non-energy use and energy use (industry, transport and other sectors).

(5) Please refer to notes in *Principles and Definitions* for detailed explanation.

(6) Transport sector includes rail and inland waterways.

(7) Other sectors includes commercial and public services, agriculture, and residential.

* "Coal" refers to all types of coal, primary (anthracite, coking coal, other bituminous coal, sub-bituminous coal, lignite/brown coal, peat) and derived fuels (including patent fuel, BKB/peat briquettes, coke oven coke, gas coke, coal tar, coke oven gas, gas works gas, blast furnace gas and oxygen steel furnace gas). Quantities have been converted to Mtce using calorific values reported by the respective countries. Please refer to notes in *Principles and Definitions*.

Austria

6. USE OF COAL FOR SELECTED END-USES*

(million tonnes)

	1978	1980	1990	2000	2005	2006	2007	Average annual percent change 78-90	90-07
Steam coal	**0.37**	**0.50**	**1.82**	**1.85**	**2.16**	**2.36**	**2.30**	**14.21**	**1.38**
Total electricity and heat	0.00	0.02	1.42	1.42	1.89	2.00	1.98	83.11	1.96
Main activity producers	*0.00*	*0.02*	*1.37*	*1.36*	*1.84*	*1.94*	*1.94*	*82.59*	*2.06*
Autoproducers	-	*0.00*	*0.05*	*0.06*	*0.04*	*0.06*	*0.04*	-	*-1.68*
Patent fuel/BKB plants	-	-	-	-	-	-	-	-	-
Coke ovens	-	-	-	-	-	-	-	-	-
Blast furnace inputs	-	-	-	-	-	-	-	-	-
Gas manufacture	-	-	-	-	-	-	-	-	-
Industry sector	0.04	0.07	0.21	0.31	0.21	0.30	0.28	15.22	1.72
Iron and steel	*0.01*	*0.03*	-	-	-	*0.00*	*0.01*	-	-
Chemical	-	-	*0.01*	*0.06*	*0.04*	*0.03*	*0.02*	-	*6.97*
Non-metallic minerals	*0.02*	*0.03*	*0.20*	*0.17*	*0.09*	*0.14*	*0.15*	*21.10*	*-1.53*
Paper, pulp and print	-	-	*0.00*	*0.09*	*0.09*	*0.12*	*0.10*	-	*25.65*
Other industry	*0.00*	*0.01*	-	-	-	*0.00*	*0.00*	-	-
Res, comm & pub serv[1]	0.32	0.41	0.19	0.08	0.06	0.06	0.04	-4.28	-8.16
Non-energy use	-	0.00	0.00	0.00	0.00	0.00	0.00	-	-4.00
Coking coal	**2.01**	**2.37**	**2.34**	**1.88**	**1.90**	**1.89**	**1.90**	**1.28**	**-1.21**
Total electricity and heat	-	-	-	-	-	-	-	-	-
Main activity producers	-	-	-	-	-	-	-	-	-
Autoproducers	-	-	-	-	-	-	-	-	-
Patent fuel/BKB plants	-	-	-	-	-	-	-	-	-
Coke ovens	2.01	2.37	2.34	1.88	1.90	1.89	1.90	1.28	-1.21
Blast furnace inputs	-	-	-	-	-	-	-	-	-
Gas manufacture	-	-	-	-	-	-	-	-	-
Industry sector	-	-	-	-	-	-	-	-	-
Iron and steel	-	-	-	-	-	-	-	-	-
Chemical	-	-	-	-	-	-	-	-	-
Non-metallic minerals	-	-	-	-	-	-	-	-	-
Paper, pulp and print	-	-	-	-	-	-	-	-	-
Other industry	-	-	-	-	-	-	-	-	-
Res, comm & pub serv[1]	-	-	-	-	-	-	-	-	-
Non-energy use	-	-	-	-	-	-	-	-	-
Brown coal/lignite	**2.99**	**3.27**	**2.50**	**1.38**	**1.29**	**0.76**	**0.19**	**-1.47**	**-14.15**
Total electricity and heat	2.03	2.42	2.13	1.23	1.14	0.66	-	0.43	-
Main activity producers	*1.99*	*2.34*	*2.08*	*1.19*	*1.12*	*0.66*	-	*0.37*	-
Autoproducers	*0.04*	*0.09*	*0.05*	*0.04*	*0.02*	*0.00*	-	*2.75*	-
Patent fuel/BKB plants	-	-	-	-	-	-	-	-	-
Coke ovens	-	-	-	-	-	-	-	-	-
Gas manufacture	0.03	-	-	-	-	-	-	-	-
Industry sector	0.21	0.16	0.15	0.11	0.13	0.09	0.17	-2.72	0.78
Iron and steel	*0.01*	*0.01*	-	-	-	-	-	-	-
Chemical	*0.00*	*0.01*	-	-	-	-	-	-	-
Non-metallic minerals	*0.01*	*0.00*	*0.01*	*0.04*	*0.07*	*0.08*	*0.17*	*2.69*	*17.27*
Paper, pulp and print	*0.15*	*0.12*	*0.13*	*0.07*	*0.06*	*0.00*	*0.00*	*-1.05*	*-18.63*
Other industry	*0.03*	*0.03*	*0.00*	-	-	-	-	*-15.69*	-
Res, comm & pub serv[1]	0.63	0.68	0.22	0.05	0.03	0.02	0.02	-8.51	-13.62
Non-energy use	-	-	-	-	-	-	-	-	-

Source: *IEA/OECD Energy Statistics of OECD Countries*

(1) Residential, commercial and public services.

* Please refer to notes in *Principles and Definitions*.

Austria

7. FUEL PRICES TO END USERS*

	1978[1]	1980	1990	2000	2004	2005	2006	2007	2008
					(US dollars / tce)				
For electricity generation									
Steam coal	173.19	176.96	80.98	56.94	86.09	92.70	98.23	101.93	131.48
Heavy fuel oil	69.15	120.07	92.64	51.28	111.81	132.84	164.85	160.66	245.00
Natural gas	74.24	164.82	115.57	..	..	..	..	..	..
For industry									
Steam coal	90.20	119.83	78.84	54.73	171.25	178.69	181.33	203.12	246.52
Coking coal	..	..	..	..	..	..	..	..	..
High sulphur fuel oil	74.62	131.06	87.74	..	..	..	..	..	..
Low sulphur fuel oil	..	..	..	128.14	193.84	258.08	305.62	346.28	490.10
Natural gas	73.76	118.88	121.26	..	..	..	..	..	..
					(Euro / unit)[2]				
For electricity generation									
Steam coal	172.67	157.05	63.15	58.33	65.43	70.45	73.92	70.25	84.91
Heavy fuel oil	100.14	154.79	104.94	76.31	123.44	146.66	180.19	160.84	229.82
Natural gas	100.80	199.20	122.74	..	..	..	..	..	..
For industry									
Steam coal	93.75	110.87	64.10	58.45	135.69	141.58	142.25	145.95	165.97
Coking coal	..	..	..	..	..	..	..	..	..
High sulphur fuel oil	108.06	168.96	99.39	..	..	..	..	..	..
Low sulphur fuel oil	..	..	..	190.67	214.00	284.92	334.05	346.68	459.75
Natural gas	100.14	143.67	128.78	..	..	..	..	..	..

Source: *IEA/OECD Energy Prices & Taxes*

(1) Earliest year for which split by coal type is available.

(2) For steam coal, coking coal and heavy fuel oil per metric tonne; for natural gas per 10^7 kilocalories GCV.

* Please refer to notes in *Principles and Definitions*.

8. COAL TRADE BY TYPE OF COAL*

(Mtce)

	1973	1980	1990	2000	2004	2005	2006	2007	2008e
Total imports	**4.38**	**4.01**	**4.54**	**4.38**	**5.69**	**5.72**	**5.41**	**5.87**	**4.96**
Hard coal	2.87	2.71	3.53	3.32	4.35	4.23	4.02	4.32	3.46
Coking coal	*..*	*2.23*	*2.36*	*1.72*	*1.77*	*2.05*	*1.79*	*1.85*	*1.92*
Steam coal	*..*	*0.48*	*1.18*	*1.60*	*2.57*	*2.19*	*2.23*	*2.48*	*1.55*
Brown coal / lignite	0.20	0.12	0.01	0.03	0.06	0.06	0.08	0.10	0.02
Peat	-	-	-	-	-	-	-	-	-
Coal products[1]	1.31	1.18	0.99	1.03	1.28	1.42	1.31	1.45	1.48
Total exports	**0.08**	**0.01**	**0.00**	**0.07**	**0.08**	**0.02**	**0.05**	**0.06**	**0.01**
Hard coal	-	-	-	-	0.02	0.00	-	0.00	0.00
Coking coal	*..*	-	-	-	-	-	-	-	-
Steam coal	*..*	-	-	-	*0.02*	*0.00*	-	*0.00*	*0.00*
Brown coal / lignite	0.00	0.01	0.00	-	-	-	-	-	-
Peat	-	-	-	-	-	-	-	-	-
Coal products[1]	0.08	0.00	0.00	0.07	0.06	0.02	0.05	0.06	0.00

Source: *IEA/OECD Energy Balances of OECD Countries, IEA/OECD Energy Statistics of OECD Countries*

(1) Coal products includes products derived from coal, for example: coke, coal tar, briquettes, patent fuels.

* Please refer to notes in *Principles and Definitions*.

Austria

9. HARD COAL IMPORTS BY ORIGIN*

(thousand tonnes)

	1978[1]	1980	1990	2000	2004	2005	2006	2007	2008e
Hard Coal	**2307**	**2878**	**3609**	**3409**	**4446**	**4340**	**4121**	**4428**	**3555**
Coking Coal	**2006**	**2371**	**2376**	**1738**	**1789**	**2063**	**1806**	**1860**	**1931**
Australia	-	-	-	-	8	-	-	-	-
Canada	-	-	-	-	-	-	-	-	-
Czech Republic	662	808	746	1187	1086	992	910	850	503
Germany	205	73	-	-	-	9	-	-	-
Poland	470	567	566	551	615	519	604	605	1428
United Kingdom	-	-	-	-	-	-	-	-	-
United States	-	189	456	-	-	501	292	405	-
Other OECD	-	-	-	-	-	-	-	-	-
China, People's Rep.	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-
South Africa	-	-	-	-	-	-	-	-	-
Former USSR[2]	669	734	-	-	-	-	-	-	-
Russia[3]	-	-	*608*	-	*80*	*31*	-	-	-
Other Former USSR[3]	-	-	-	-	-	*11*	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-
Non-specified/other	-	-	-	-	-	-	-	-	-
Steam coal	**301**	**507**	**1233**	**1671**	**2657**	**2277**	**2315**	**2568**	**1624**
Australia	-	-	-	-	-	-	-	-	-
Canada	-	-	-	-	-	-	-	-	-
Czech Republic	-	-	-	307	1074	922	905	909	1486
Germany	8	10	29	6	3	8	19	26	28
Poland	260	411	1189	1358	1570	1331	1317	1449	-
United Kingdom	-	-	-	-	-	-	-	-	-
United States	-	-	-	-	-	-	14	55	-
Other OECD	-	-	9	-	-	1	4	-	16
China, People's Rep.	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-
South Africa	-	-	6	-	4	10	-	-	-
Former USSR[2]	33	48	-	-	-	-	-	-	-
Russia[3]	-	-	-	-	-	-	*53*	*121*	-
Other Former USSR[3]	-	-	-	-	*5*	*5*	*1*	*7*	*53*
Venezuela	-	-	-	-	-	-	-	-	41
Vietnam	-	-	-	-	-	-	-	-	-
Non-specified/other	-	38	-	-	1	-	2	1	-

Source: IEA/OECD Coal Statistics

(1) Earliest year for which split by coal type is available.

(2) If no detail.

(3) Data for former republics are not available separately for some OECD member countries.

* Please refer to notes in *Principles and Definitions*.

Austria

12. COAL IMPORT VALUES BY ORIGIN*

(average unit value, CIF, US$/tonne)

	1988	1990	1995	2003	2004	2005	2006	2007	2008
Coking coal[1]	**..**	**..**	**214.20**	**71.17**	**98.33**	**85.39**	**206.11**	**..**	**307.83**
Imports from:									
Australia	..	..	..	..	..	..	..	..	..
Canada	..	..	..	..	..	..	..	..	..
Czech Republic	..	..	..	..	98.50	242.07	206.11	..	..
Poland	..	..	..	..	..	..	..	..	..
United States	..	..	..	..	..	..	..	..	..
China	..	..	..	..	..	..	..	..	..
Colombia	..	..	..	..	..	..	..	..	..
South Africa	..	..	..	..	..	..	..	..	..
Former USSR[2]	..	..	..	..	..	..	..	..	..
Steam coal[3]	**..**	**..**	**66.80**	**66.78**	**85.27**	**116.18**	**106.63**	**114.81**	**170.22**
Imports from:									
Australia	..	..	..	..	9110.53	..	..	135.44	..
Canada	..	..	..	67.46	..	406.70	401.61	..	321.27
Czech Republic	..	..	63.72	70.46	90.16	129.52	115.10	116.79	165.34
Poland	..	..	73.62	63.38	81.75	100.29	95.32	106.74	165.52
United States	..	..	..	..	1198.19	155.09	141.99	159.43	185.60
China	..	..	..	..	..	..	291.30	472.80	505.58
Colombia	..	..	..	..	..	..	..	..	..
South Africa	..	..	..	..	..	133.90	..	117.62	..
Former USSR[2]	..	..	..	93.29	128.71	70.33	84.00	118.57	177.48

Source: IEA/OECD Coal Statistics

Note: On occasion, shipment of extremely small quantities of high valued coal results in high import costs.

(1) Weighted average of individual countries using import volumes as weights. Prices exclude intra-EU trade.

(2) Former USSR until 1991, Russia starting in 1992.

(3) Bituminous steam coal only. Weighted average of individual countries using volumes as weights. Prices exclude intra-EU trade.

* Please refer to notes in *Principles and Definitions*.

Belgium*

Chart 1: TPES by fuel (Mtce)

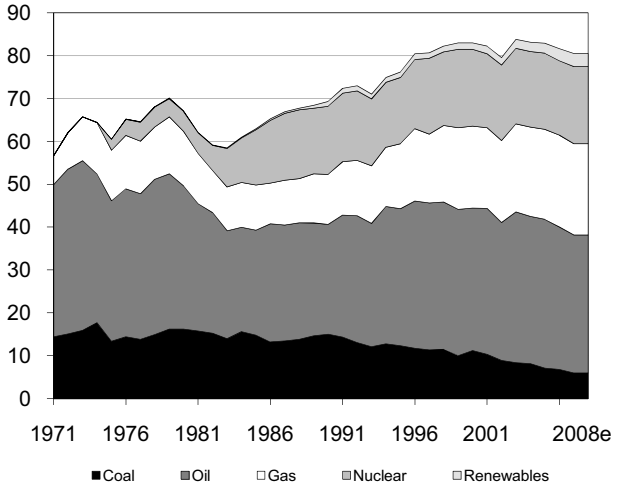


Chart 2: Coal supply indicators (1971 = 100)

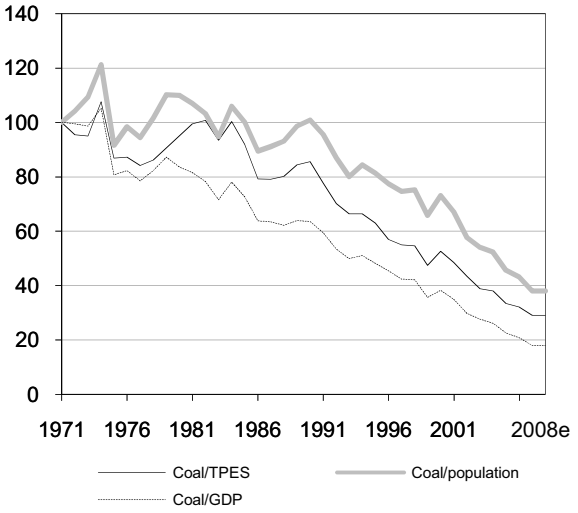


Chart 3: Primary coal supply (Mtce)

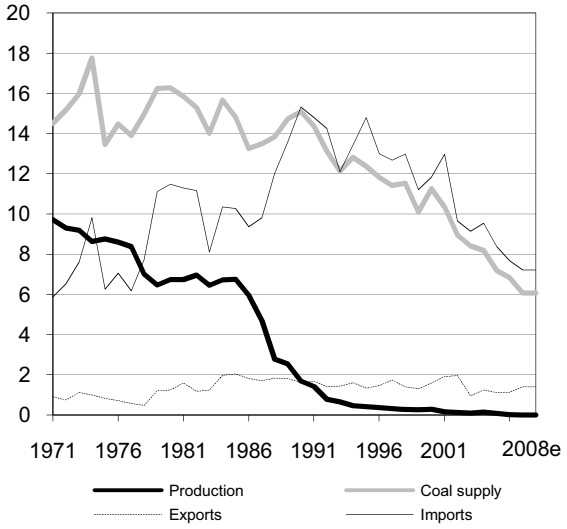


Chart 4: Coal consumption (Mtce)

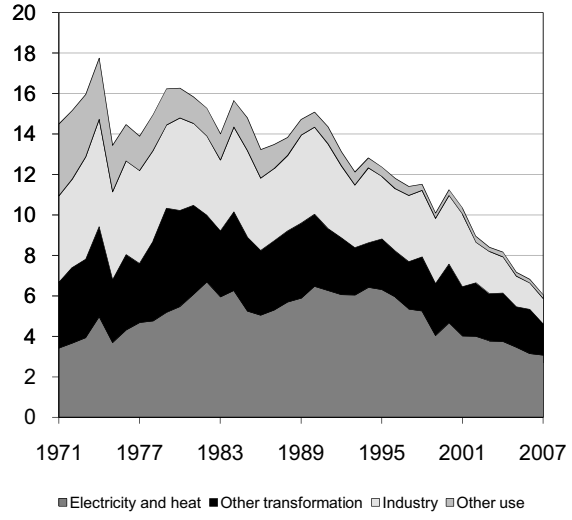


Chart 5: Electricity generation by fuel (TWh)

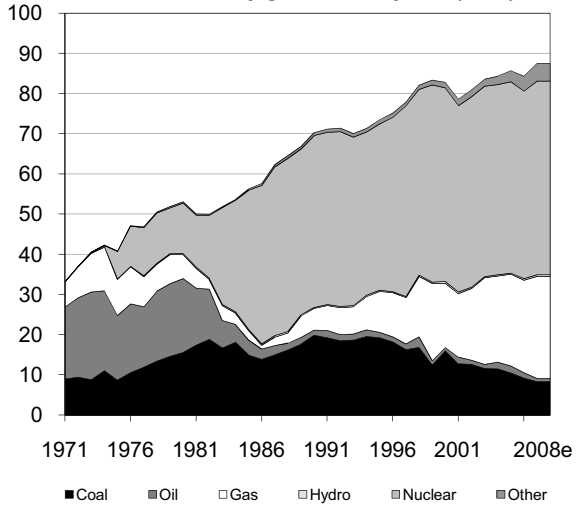
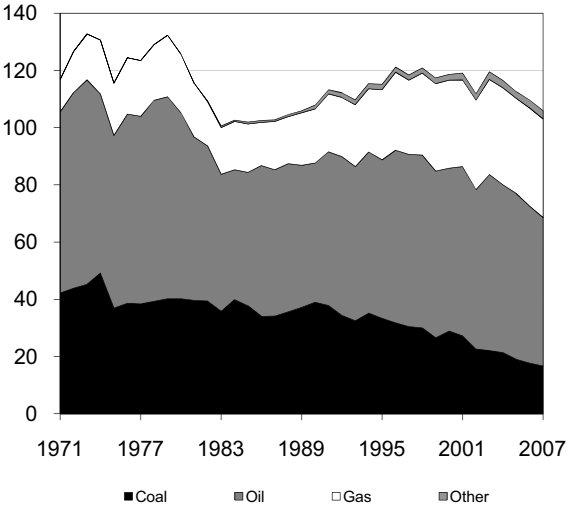


Chart 6: CO_2 emissions by fuel (Mt CO_2)



*Please refer to notes in *Principles and Definitions* . Peat is included in coal for all charts.

Belgium

1. TOTAL PRIMARY ENERGY SUPPLY (TPES) BY FUEL*

	1973	1980	1990	2000	2006	2007	2008e	Average annual percent change 73-90	90-07
TPES (Mtce)	**65.70**	**66.81**	**68.92**	**83.57**	**83.02**	**81.46**	**82.51**	**0.28**	**0.99**
Coal and peat	15.97	16.28	15.10	11.25	6.83	6.06	6.07	-0.33	-5.22
Oil	39.55	33.34	25.59	33.22	33.25	32.14	33.27	-2.53	1.35
Gas	10.20	12.73	11.67	19.09	21.43	21.32	21.14	0.79	3.61
Comb. renew/waste	0.01	0.08	1.08	1.48	2.71	2.94	3.52	30.09	6.09
Nuclear	0.03	4.67	15.91	17.93	17.37	17.95	16.96	45.13	0.72
Hydro	0.02	0.03	0.03	0.06	0.04	0.05	0.05	2.63	2.26
Geothermal	-	-	0.00	0.00	0.01	0.00	0.00	-	2.02
Solar, wind, tide	-	-	0.00	0.00	0.05 e	0.07	0.09	-	22.82
Net electricity trade[1]	-0.09	-0.32	-0.46	0.53	1.25	0.83	1.30	9.84	-
Heat[2]	-	-	-	-	0.10	0.09	0.09	-	-

Source: *IEA/OECD Energy Balances of OECD Countries*

(1) Net trade between OECD and non-OECD countries.

(2) Ambient heat from heat pumps used in the transformation sector.

2. ENERGY SUPPLY, GDP AND POPULATION*

	1973	1980	1990	2000	2006	2007	2008e	Average annual percent change 73-90	90-07
GDP (2000 bil. US$)	128	154	188	232	259	266	270	2.28	2.08
TPES/GDP[1]	0.51	0.43	0.37	0.36	0.32	0.31	0.31	-1.95	-1.07
Population (millions)	9.7	9.9	10.0	10.2	10.5	10.6	10.6	0.15	0.37
TPES/population[1]	6.76	6.78	6.91	8.16	7.87	7.67	7.78	0.14	0.61
TPES/GDP[2]	142.6	120.6	102.0	100.0	89.0	85.0	84.9	-1.95	-1.07
Coal and peat supply/GDP[2]	257.5	218.3	165.9	100.0	54.4	47.0	46.4	-2.55	-7.15
Elec. consumption/GDP[2]	80.0	84.4	92.5	100.0	95.5	93.2	..	0.86	0.05
Elec. generation (TWh)	41	53	70	83	84	88	83	3.28	1.30
Industrial production[2]	65.7	70.6	86.0	100.0	109.3	112.2	111.5	1.59	1.58

Source: *IEA/OECD Energy Balances of OECD Countries* , *OECD Main Economic Indicators*

(1) TPES/GDP in units of tce/2000 thousand US$, TPES/population in units of tce/capita.

(2) As index, 2000 = 100

3. COAL AND PEAT PRODUCTION BY TYPE*

	1978[1]	1980	1990	2000	2006	2007	2008e	Average annual percent change 78-90	90-07
Mtce:									
Coking coal	3.81	4.04	-	-	-	-	-	-	-
Steam coal	3.19	2.69	1.69	0.29	0.02	-	-	-5.18	-
Brown coal	-	-	-	-	-	-	-	-	-
Peat	-	-	-	-	-	-	-	-	-
Mt:									
Coking coal	3.81	4.04	-	-	-	-	-	-	-
Steam coal	4.90	3.98	2.36	0.38	0.03	-	-	-5.92	-
Brown coal	-	-	-	-	-	-	-	-	-
Peat	-	-	-	-	-	-	-	-	-

Source: *IEA/OECD Energy Balances of OECD Countries, IEA/OECD Energy Statistics of OECD Countries*

(1) Earliest year for which split by coal type is available.

* Please refer to notes in *Principles and Definitions* .

Belgium

4. FINAL CONSUMPTION OF ENERGY BY FUEL*

(Mtce)

	1973	1980	1990	2000	2005	2006	2007	Average annual percent change 73-90	90-07
TFC[1]	**48.19**	**46.12**	**45.75**	**59.11**	**59.34**	**58.18**	**56.64**	**-0.30**	**1.26**
Coal and peat	8.15	6.05	5.05	3.68	1.70	1.49	1.44	-2.78	-7.11
Oil	28.80	24.08	22.98	29.92	31.23	29.17	28.12	-1.32	1.19
Gas	6.58	10.11	9.74	14.52	14.85	15.50	15.11	2.34	2.62
Comb. renew/wastes	-	-	0.54	0.76	1.09	1.18	1.19	-	4.80
Geothermal	-	-	-	-	-	-	-	-	-
Solar, wind, tide	-	-	0.00	0.00	0.00	0.00	0.01	-	10.56
Electricity	4.20	5.33	7.12	9.53	9.85	10.15	10.18	3.15	2.12
Heat	0.46	0.56	0.32	0.70	0.61	0.68	0.58	-2.14	3.69
of which:									
Total industry	**19.41**	**16.00**	**15.02**	**18.32**	**14.92**	**15.85**	**15.78**	**-1.50**	**0.29**
Coal and peat	5.06	4.57	4.30	3.40	1.52	1.31	1.26	-0.95	-6.99
Oil	7.46	3.65	2.31	2.29	1.51	1.44	1.43	-6.67	-2.76
Gas	3.68	4.33	4.12	6.58	5.71	6.72	6.94	0.67	3.12
Comb. renew/wastes	-	-	0.27	0.54	0.81	0.87	0.75	-	6.14
Geothermal	-	-	-	-	-	-	-	-	-
Solar, wind, tide	-	-	-	-	-	-	-	-	-
Electricity	2.75	2.94	3.75	4.90	4.84	4.94	4.93	1.83	1.62
Heat	0.46	0.51	0.27	0.61	0.53	0.57	0.47	-3.08	3.42
Total transport	**6.31**	**7.72**	**9.69**	**11.69**	**12.35**	**12.06**	**12.11**	**2.55**	**1.32**
Coal and peat	0.02	0.00	-	-	-	-	-	-	-
Oil	6.20	7.60	9.53	11.52	12.14	11.86	11.78	2.57	1.25
Gas	-	-	-	-	-	-	-	-	-
Comb. renew/wastes	-	-	-	-	-	-	0.12	-	-
Electricity	0.10	0.12	0.15	0.18	0.21	0.20	0.21	2.53	1.74
Residential	**15.78**	**13.70**	**11.82**	**13.53**	**14.17**	**12.73**	**11.58**	**-1.68**	**-0.12**
Coal and peat	3.07	1.47	0.75	0.28	0.18	0.18	0.16	-7.99	-8.65
Oil	10.21	7.00	4.98	5.39	5.17	4.50	3.74	-4.14	-1.67
Gas	1.56	3.58	3.55	4.70	5.32	4.94	4.68	4.95	1.65
Comb. renew/wastes	-	-	0.26	0.22	0.27	0.30	0.29	-	0.44
Geothermal	-	-	-	-	-	-	-	-	-
Solar, wind, tide	-	-	-	0.00	0.00	0.00	0.01	-	-
Electricity	0.93	1.61	2.26	2.92	3.20	2.79	2.69	5.34	1.01
Heat	-	0.02	0.03	0.02	0.02	0.02	0.02	-	-1.06
Comm & public services	**1.52**	**4.25**	**4.11**	**4.92**	**5.93**	**6.16**	**5.59**	**6.02**	**1.83**
Coal and peat	-	-	-	-	-	-	-	-	-
Oil	0.59	2.23	1.65	1.19	1.81	1.56	1.33	6.20	-1.26
Gas	0.51	1.34	1.48	2.21	2.53	2.41	1.95	6.42	1.64
Comb. renew/waste	-	-	-	0.00	0.01	0.01	0.01	-	-
Geothermal	-	-	-	-	-	-	-	-	-
Solar, wind, tide	-	-	-	0.00	0.00	0.00	0.00	-	-
Electricity	0.41	0.65	0.96	1.50	1.56	2.11	2.23	5.08	5.09
Heat	-	0.03	0.02	0.02	0.02	0.07	0.07	-	7.50
Non-energy use	**4.52**	**3.73**	**4.42**	**9.62**	**10.74**	**10.15**	**10.28**	**-0.13**	**5.09**
Coal and peat	-	-	-	-	0.01	0.00	0.03	-	-
Oil	3.69	2.87	3.82	8.59	9.47	8.92	8.95	0.20	5.13
Gas	0.83	0.86	0.60	1.03	1.26	1.22	1.30	-1.87	4.68

Source: *IEA/OECD Energy Balances of OECD Countries*

(1) Total Final Consumption (TFC) excludes use in transformation and energy sectors.

* Please refer to notes in *Principles and Definitions*.

Belgium

5. COAL BALANCE*

(Mtce)

	1973	1980	1990	2000	2006	2007	2008e	Average annual percent change 73-90	90-07
Production	9.2	6.7	1.7	0.3	0.0	-	-	-9.5	-
Imports	7.6	11.5	15.3	11.8	7.7	7.2	7.4	4.2	-4.3
Exports	-1.1	-1.2	-1.6	-1.6	-1.1	-1.4	-1.0	2.2	-0.8
Stock changes	0.3	-0.7	-0.3	0.7	0.3	0.2	-0.3	x	x
Primary supply	**16.0**	**16.3**	**15.1**	**11.3**	**6.8**	**6.1**	**6.1**	**-0.3**	**-5.2**
Statistical difference	**1.5**	**-0.4**	**-0.0**	**-0.5**	**0.2**	**0.6**	**..**	**x**	**x**
Total transformation	**-8.2 e**	**-9.1 e**	**-9.4 e**	**-6.7 e**	**-5.2 e**	**-5.0 e**	**..**	**0.8**	**-3.7**
Electricity and heat gen.	-3.9	-5.5	-6.5	-4.7	-3.2	-3.1	..	3.0	-4.3
Main activity producers (1)	*-3.9*	*-4.8*	*-6.0*	*-4.5*	*-2.9*	*-2.8*	*..*	*2.5*	*-4.4*
Autoproducers	-	*-0.7*	*-0.5*	*-0.2*	*-0.3*	*-0.3*	*..*	-	*-3.1*
Gas works	-0.0	-	-	-	-	-	..	-	-
Coal transformation(2)	-4.3 e	-3.6 e	-2.9 e	-2.0 e	-2.1 e	-1.9 e	..	-2.3	-2.4
BKB plants	-	-	-	-	-	-	*..*	-	-
Blast furnaces	*-3.8 e*	*-2.9 e*	*-2.3 e*	*-2.0 e*	*-1.8 e*	*-1.6 e*	*..*	*-2.7*	*-2.3*
Coke ovens	*-0.6*	*-0.8*	*-0.5*	*-0.0*	*-0.3*	*-0.3*	*..*	*-0.6*	*-2.9*
Patent fuel plants	*0.1*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*..*	*-34.9*	*13.5*
Other transformation(3)	-	-	-	-	-	-	..	-	-
Own use	**-1.1**	**-0.8**	**-0.7**	**-0.3**	**-0.3**	**-0.3**	**..**	**-2.6**	**-5.4**
Distribution losses	**-**	**-**	**-**	**-**	**-**	**-**	**..**	**x**	**x**
Final consumption(4)	**8.2**	**6.0**	**5.1**	**3.7**	**1.5**	**1.4**	**..**	**-2.8**	**-7.1**
Industry sector(5)	5.1	4.6	4.3	3.4	1.3	1.3	..	-1.0	-7.0
Iron and steel	*3.5 e*	*2.9 e*	*2.9 e*	*2.8 e*	*0.9 e*	*0.9 e*	*..*	*-1.1*	*-6.7*
Chemical	*0.1*	*0.1*	*0.2*	*0.0*	*0.0*	-	*..*	*2.2*	-
Non-metallic minerals	*1.0*	*1.5*	*0.8*	*0.4*	*0.2*	*0.2*	*..*	*-1.0*	*-8.1*
Paper, pulp and print	-	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*..*	-	*-1.0*
Transport sector(6)	0.0	0.0	-	-	-	-	..	-	-
Other sectors(7)	3.1	1.5	0.7	0.3	0.2	0.2	..	-8.0	-8.6
Comm. and pub. services	-	-	-	-	-	-	*..*	-	-
Residential	*3.1*	*1.5*	*0.7*	*0.3*	*0.2*	*0.2*	*..*	*-8.0*	*-8.6*
Non-energy use	-	-	-	-	0.0	0.0	..	-	-

Source: *IEA/OECD Energy Balances of OECD Countries*

(1) Main activity electricity and heat generation includes district heating.

(2) Coal transformation refers to the transformation of coal and peat to secondary and tertiary products (mainly coke, briquettes, coke oven gas and blast furnace gas).

(3) Other transformation includes liquefaction and non-specified transformation.

(4) Final Consumption includes non-energy use and energy use (industry, transport and other sectors).

(5) Please refer to notes in *Principles and Definitions* for detailed explanation.

(6) Transport sector includes rail and inland waterways.

(7) Other sectors includes commercial and public services, agriculture, and residential.

* "Coal" refers to all types of coal, primary (anthracite, coking coal, other bituminous coal, sub-bituminous coal, lignite/brown coal, peat) and derived fuels (including patent fuel, BKB/peat briquettes, coke oven coke, gas coke, coal tar, coke oven gas, gas works gas, blast furnace gas and oxygen steel furnace gas). Quantities have been converted to Mtce using calorific values reported by the respective countries. Please refer to notes in *Principles and Definitions*.

Belgium

6. USE OF COAL FOR SELECTED END-USES*

(million tonnes)

	1978	1980	1990	2000	2005	2006	2007	Average annual percent change 78-90	90-07
Steam coal	**8.76**	**8.99**	**9.00**	**7.00**	**4.29**	**3.43**	**3.07**	**0.22**	**-6.13**
Total electricity and heat	4.44	5.49	6.64	4.37	3.05	2.61	2.25	3.41	-6.18
Main activity producers	*4.18*	*5.17*	*6.34*	*4.31*	*2.98*	*2.54*	*2.19*	*3.53*	*-6.06*
Autoproducers	*0.26*	*0.32*	*0.30*	*0.07*	*0.06*	*0.07*	*0.05*	*1.22*	*-9.62*
Patent fuel/BKB plants	0.12	0.07	0.00	0.01	0.01	0.01	0.00	-32.76	8.50
Coke ovens	0.03	-	-	-	-	-	-	-	-
Blast furnace inputs	-	-	0.41	0.98	0.48	0.47	0.40	-	-0.16
Gas manufacture	-	-	-	-	-	-	-	-	-
Industry sector	2.66	2.15	1.37	0.98	0.36	0.28	0.28	-5.39	-8.94
Iron and steel	*0.17*	*0.08*	*0.10*	*0.48*	*0.12*	*0.05*	*0.05*	*-4.36*	*-4.29*
Chemical	*0.03*	*0.03*	*0.14*	*-*	*-*	*-*	*-*	*13.74*	*-*
Non-metallic minerals	*2.44*	*2.02*	*0.87*	*0.36*	*0.12*	*0.13*	*0.10*	*-8.25*	*-12.04*
Paper, pulp and print	*-*	*-*	*0.05*	*0.04*	*0.04*	*0.03*	*0.05*	*-*	*-0.26*
Other industry	*0.02*	*0.02*	*0.22*	*0.10*	*0.08*	*0.07*	*0.09*	*20.19*	*-5.20*
Res, comm & pub serv[1]	1.63	1.33	0.70	0.30	0.19	0.18	0.16	-6.77	-8.21
Non-energy use	-	-	-	-	0.01	0.01	0.03	-	-
Coking coal	**7.52**	**8.01**	**7.16**	**4.05**	**3.26**	**3.75**	**3.45**	**-0.42**	**-4.20**
Total electricity and heat	0.20	-	-	-	-	-	-	-	-
Main activity producers	*0.18*	*-*	*-*	*-*	*-*	*-*	*-*	*-*	*-*
Autoproducers	*0.02*	*-*	*-*	*-*	*-*	*-*	*-*	*-*	*-*
Patent fuel/BKB plants	-	-	-	-	-	-	-	-	-
Coke ovens	7.19	7.95	7.16	3.86	3.37	3.66	3.43	-0.03	-4.24
Blast furnace inputs	-	-	-	-	-	-	-	-	-
Gas manufacture	-	-	-	-	-	-	-	-	-
Industry sector	0.00	0.00	-	-	-	0.00	0.01	-	-
Iron and steel	*-*	*-*	*-*	*-*	*-*	*0.00*	*-*	*-*	*-*
Chemical	*-*	*-*	*-*	*-*	*-*	*-*	*-*	*-*	*-*
Non-metallic minerals	*0.00*	*0.00*	*-*	*-*	*-*	*-*	*0.01*	*-*	*-*
Paper, pulp and print	*-*	*-*	*-*	*-*	*-*	*-*	*-*	*-*	*-*
Other industry	*-*	*-*	*-*	*-*	*-*	*-*	*-*	*-*	*-*
Res, comm & pub serv[1]	0.00	0.00	-	-	-	-	0.00	-	-
Non-energy use	-	-	-	-	-	-	-	-	-
Brown coal/lignite	**-**	**0.10**	**0.28**	**0.22**	**0.21**	**0.29**	**0.32**	**-**	**0.82**
Total electricity and heat	-	-	-	-	-	-	-	-	-
Main activity producers	*-*	*-*	*-*	*-*	*-*	*-*	*-*	*-*	*-*
Autoproducers	*-*	*-*	*-*	*-*	*-*	*-*	*-*	*-*	*-*
Patent fuel/BKB plants	-	-	-	-	-	-	-	-	-
Coke ovens	-	-	-	-	-	-	-	-	-
Gas manufacture	-	-	-	-	-	-	-	-	-
Industry sector	-	0.10	0.28	0.22	0.21	0.29	0.32	-	0.80
Iron and steel	*-*	*-*	*-*	*-*	*-*	*-*	*-*	*-*	*-*
Chemical	*-*	*-*	*-*	*-*	*0.01*	*0.00*	*-*	*-*	*-*
Non-metallic minerals	*-*	*0.10*	*0.28*	*0.22*	*0.20*	*0.29*	*0.32*	*-*	*0.80*
Paper, pulp and print	*-*	*-*	*-*	*-*	*-*	*-*	*-*	*-*	*-*
Other industry	*-*	*-*	*-*	*-*	*-*	*-*	*-*	*-*	*-*
Res, comm & pub serv[1]	-	-	-	-	-	-	-	-	-
Non-energy use	-	-	-	-	-	-	-	-	-

Source: *IEA/OECD Energy Statistics of OECD Countries*

(1) Residential, commercial and public services.

* Please refer to notes in *Principles and Definitions*.

Belgium

7. FUEL PRICES TO END USERS*

	1978[1]	1980	1990	2000	2004	2005	2006	2007	2008
					(US dollars / tce)				
For electricity generation									
Steam coal	53.08	62.51	59.60	42.95	95.02	105.36	82.93	99.07	171.19
Heavy fuel oil	66.67	128.76	91.13	129.79	x	x	x	x	x
Natural gas	65.42	123.12	96.10	c	c	c	c	c	c
For industry									
Steam coal	29.62	42.87	55.41	..	..	..	..	..	..
Coking coal	63.67	66.51	61.72	47.21	..	..	..	..	..
High sulphur fuel oil	66.67	128.76	91.13	129.79	x	x	x	x	x
Low sulphur fuel oil	..	..	102.02	117.76	154.04	220.57	251.62	289.79	444.57
Natural gas	71.79	117.89	112.22	c	c	c	c	c	c
					(Euro / unit)[2]				
For electricity generation									
Steam coal	31.61	34.56	37.68	35.54	58.33	64.68	50.40	55.15	89.29
Heavy fuel oil	72.53	130.02	105.23	196.15	x	x	x	x	x
Natural gas	65.69	114.77	102.43	c	c	c	c	c	c
For industry									
Steam coal	18.34	24.64	36.42	..	..	..	..	..	..
Coking coal	49.73	48.22	51.17	51.22	..	..	..	..	..
High sulphur fuel oil	72.53	130.02	105.23	196.15	x	x	x	x	x
Low sulphur fuel oil	..	..	117.80	177.97	172.72	247.31	279.32	294.66	423.54
Natural gas	72.09	109.89	119.61	c	c	c	c	c	c

Source: *IEA/OECD Energy Prices & Taxes*

(1) Earliest year for which split by coal type is available.

(2) For steam coal, coking coal and heavy fuel oil per metric tonne; for natural gas per 10^7 kilocalories GCV.

* Please refer to notes in *Principles and Definitions*.

8. COAL TRADE BY TYPE OF COAL*

(Mtce)

	1973	1980	1990	2000	2004	2005	2006	2007	2008e
Total imports	**7.60**	**11.49**	**15.33**	**11.84**	**9.53**	**8.37**	**7.67**	**7.21**	**7.39**
Hard coal	6.36	10.13	14.37	10.66	9.20	8.14	7.49	6.89	6.55
Coking coal	*..*	*4.17*	*7.13*	*3.82*	*3.58*	*3.53*	*3.49*	*3.25*	*2.99*
Steam coal	*..*	*5.96*	*7.24*	*6.84*	*5.62*	*4.61*	*4.00*	*3.64*	*3.56*
Brown coal / lignite	-	0.03	0.08	0.06	0.05	0.06	0.08	0.09	0.03
Peat	-	-	-	-	-	-	-	-	-
Coal products[1]	1.24	1.33	0.88	1.12	0.28	0.17	0.10	0.23	0.81
Total exports	**1.10**	**1.23**	**1.60**	**1.59**	**1.23**	**1.10**	**1.12**	**1.39**	**0.97**
Hard coal	0.60	0.47	0.68	1.28	1.14	1.06	0.93	1.28	0.88
Coking coal	*..*	*0.18*	*-*	*0.09*	*-*	*0.03*	*0.01*	*0.01*	*-*
Steam coal	*..*	*0.30*	*0.68*	*1.20*	*1.14*	*1.03*	*0.92*	*1.27*	*0.88*
Brown coal / lignite	-	-	-	-	-	-	-	-	-
Peat	-	-	-	-	-	-	-	-	-
Coal products[1]	0.50	0.76	0.92	0.30	0.09	0.03	0.19	0.11	0.10

Source: *IEA/OECD Energy Balances of OECD Countries, IEA/OECD Energy Statistics of OECD Countries*

(1) Coal products includes products derived from coal, for example: coke, coal tar, briquettes, patent fuels.

* Please refer to notes in *Principles and Definitions*.

Belgium

9. HARD COAL IMPORTS BY ORIGIN*

(thousand tonnes)

	1978[1]	1980	1990	2000	2004	2005	2006	2007	2008e
Hard Coal	**7007**	**10139**	**14761**	**11347**	**9790**	**8804**	**8056**	**7415**	**7050**
Coking Coal	**3490**	**4168**	**7132**	**3818**	**3577**	**3533**	**3490**	**3247**	**2993**
Australia	209	206	1015	1109	1800	2003	1647	1739	1624
Canada	148	-	236	678	404	227	351	175	60
Czech Republic	59	25	-	-	-	-	-	-	-
Germany	1751	783	690	-	89	-	-	-	-
Poland	392	422	105	74	49	-	23	-	-
United Kingdom	22	-	32	-	-	-	-	-	-
United States	833	2719	4897	1898	1157	1303	1468	1326	1221
Other OECD	15	13	-	-	-	-	-	6	66
China, People's Rep.	-	-	-	-	-	-	-	-	16
Colombia	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-
South Africa	15	-	157	59	78	-	-	-	6
Former USSR[2]	46	-	-	-	-	-	-	-	-
Russia[3]	-	-	-	-	-	-	-	-	-
Other Former USSR[3]	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-
Non-specified/other	-	-	-	-	-	-	1	1	-
Steam coal	**3517**	**5971**	**7629**	**7529**	**6213**	**5271**	**4566**	**4168**	**4057**
Australia	-	51	388	2354	823	947	490	581	651
Canada	26	-	66	12	-	43	-	11	-
Czech Republic	-	14	-	-	-	-	-	-	-
Germany	2316	1563	721	118	91	155	88	97	110
Poland	105	162	242	225	297	436	299	6	-
United Kingdom	129	217	67	76	51	62	38	38	45
United States	-	1436	981	309	502	411	367	403	632
Other OECD	72	239	60	48	41	29	45	46	43
China, People's Rep.	-	-	292	167	36	58	27	15	22
Colombia	-	-	170	431	64	5	4	27	202
Indonesia	-	-	6	11	-	-	-	275	218
South Africa	606	2050	4365	3028	3016	2081	2260	1641	1735
Former USSR[2]	233	216	-	-	-	-	-	-	-
Russia[3]	-	-	*234*	*705*	*1263*	*944*	*786*	*1010*	*387*
Other Former USSR[3]	-	-	-	*19*	-	-	-	-	-
Venezuela	-	-	1	3	4	-	143	-	-
Vietnam	-	-	-	23	25	98	19	17	9
Non-specified/other	30	23	36	-	-	2	-	1	3

Source: IEA/OECD Coal Statistics

(1) Earliest year for which split by coal type is available.

(2) If no detail.

(3) Data for former republics are not available separately for some OECD member countries.

* Please refer to notes in *Principles and Definitions*.

Belgium

11. STEAM COAL EXPORTS BY DESTINATION*

(thousand tonnes)

	1978[1]	1980	1990	2000	2004	2005	2006	2007	2008e
Total Exports	**122**	**305**	**724**	**1340**	**1314**	**1199**	**1069**	**1464**	**1011**
Exports to:									
Total OECD	**122**	**291**	**724**	**1340**	**1313**	**1199**	**1068**	**1462**	**1011**
Australia	-	-	-	-	-	-	-	-	-
Austria	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-
Canada	-	-	-	-	-	-	-	-	-
Czech Republic	-	-	-	-	-	-	-	-	-
Denmark	-	-	1	-	-	-	-	-	-
Finland	-	-	-	2	-	-	-	-	-
France	61	55	360	609	418	377	270	263	169
Germany	1	162	67	495	518	334	365	409	150
Greece	-	-	-	-	-	2	-	1	-
Hungary	-	-	-	-	-	-	-	-	-
Iceland	-	-	-	-	-	-	-	-	-
Ireland	-	-	-	7	3	-	-	-	-
Italy	-	5	5	-	-	-	-	-	-
Japan	-	-	61	-	-	-	-	-	-
Korea	-	-	-	-	-	-	-	-	-
Luxembourg	21	2	-	40	42	37	23	46	16
Mexico	-	-	-	-	-	-	-	-	-
Netherlands	1	22	179	136	318	423	389	737	572
New Zealand	-	-	-	-	-	-	-	-	-
Norway	13	15	-	-	-	-	-	-	-
Poland	-	-	-	-	-	-	-	2	-
Portugal	6	-	4	-	-	-	-	-	-
Slovak Republic	-	-	-	-	-	-	-	-	-
Spain	18	13	43	6	-	-	2	-	-
Sweden	-	13	-	15	4	17	1	1	10
Switzerland	1	4	-	15	8	7	15	-	92
Turkey	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	4	15	2	2	3	3	2
United States	-	-	-	-	-	-	-	-	-
Total Non-OECD	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
Brazil	-	-	-	-	-	-	-	-	-
Chinese Taipei	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-
Hong Kong, China	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-
Israel	-	-	-	-	-	-	-	-	-
Romania	-	-	-	-	-	-	-	-	-
Oth. Africa & Mid. East	-	-	-	-	-	-	-	-	-
Other Latin America	-	-	-	-	-	-	-	-	-
Other Asia & Oceania	-	-	-	-	-	-	-	-	-
Other Europe and FSU	-	-	-	-	-	-	-	-	-
Non-Specified/Other	**-**	**14**	**-**	**-**	**1**	**-**	**1**	**2**	**-**

Source: IEA/OECD Coal Statistics

(1) Earliest year for which split by coal type is available.

* Please refer to notes in *Principles and Definitions*.

Belgium

12. COAL IMPORT VALUES BY ORIGIN*

(average unit value, CIF, US$/tonne)

	1988	1990	1995	2003	2004	2005	2006	2007	2008
Coking coal[1]	**57.09**	**63.93**	**57.74**	**49.25**	**78.98**	**108.68**	**126.85**	**120.51**	**163.26**
Imports from:									
Australia	53.70	63.54	58.30	53.92	75.15	125.12	150.51	135.93	184.60
Canada	..	63.80	56.91	64.65	73.50	148.24	153.27	136.78	..
Czech Republic	..	254.00	..	..	..	..	..	..	..
Poland	46.04	60.08	57.96	..	105.22	133.14	131.24	..	..
United States	56.70	62.61	58.28	53.59	69.24	96.51	101.04	104.33	141.00
China	..	..	63.59	..	309.94	285.09	229.39	163.87	241.46
Colombia	..	..	..	..	..	..	..	..	114.10
South Africa	..	54.18	49.03	35.41	49.63	67.23	59.63	78.76	139.94
Former USSR[2]	..	..	..	..	132.29	75.13	67.34	91.44	172.22
Steam coal[3]	**41.23**	**45.57**	**47.94**	**39.76**	**66.29**	**70.83**	**70.95**	**82.81**	**150.58**
Imports from:									
Australia	39.75	50.57	45.93	..	75.32	97.75	100.18	90.32	199.82
Canada	69.05	57.14	66.64	..	..	102.49	..	72.46	..
Czech Republic	..	..	..	..	..	..	..	..	..
Poland	66.44	48.40	46.66	33.70	69.33	63.56	57.55	158.69	270.57
United States	47.55	51.01	49.77	55.26	73.93	..	66.92	90.95	140.60
China	44.97	48.49	45.65	56.59	72.40	..	..	653.12	..
Colombia	39.77	51.92	53.17	49.82	62.64	73.98	68.14	84.14	195.17
South Africa	38.92	44.88	43.64	36.54	64.17	68.15	66.67	80.05	128.43
Former USSR[2]	..	44.83	43.65	37.70	71.06	67.19	63.23	82.65	139.75

Source: IEA/OECD Coal Statistics

Note: On occasion, shipment of extremely small quantities of high valued coal results in high import costs.

(1) Weighted average of individual countries using import volumes as weights. Prices exclude intra-EU trade.

(2) Former USSR until 1991, Russia starting in 1992.

(3) Bituminous steam coal only. Weighted average of individual countries using volumes as weights. Prices exclude intra-EU trade.

* Please refer to notes in *Principles and Definitions*.

Canada*

Chart 1: TPES by fuel (Mtce)

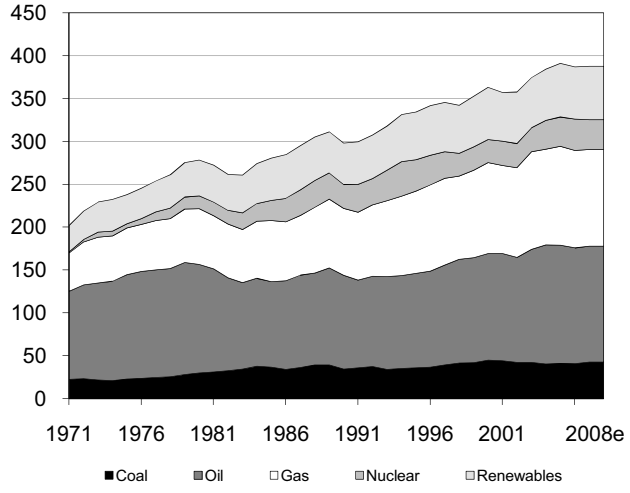


Chart 2: Coal supply indicators (1971 = 100)

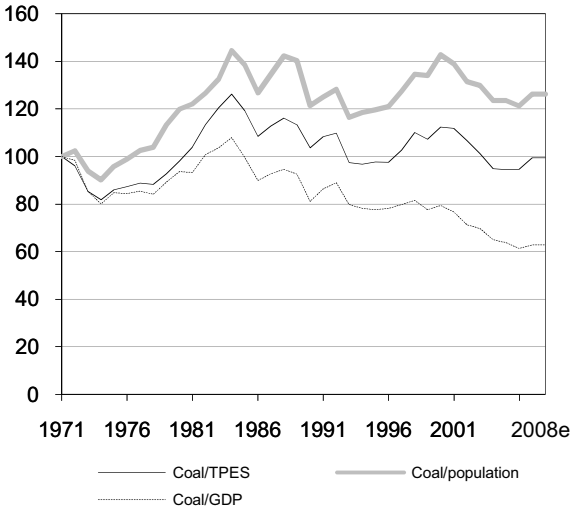


Chart 3: Primary coal supply (Mtce)

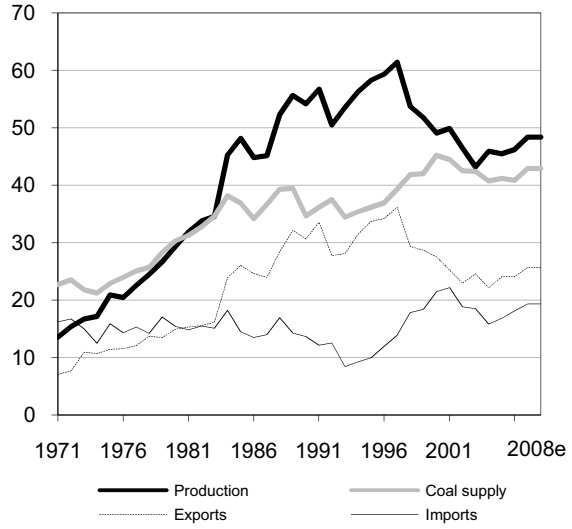


Chart 4: Coal consumption (Mtce)

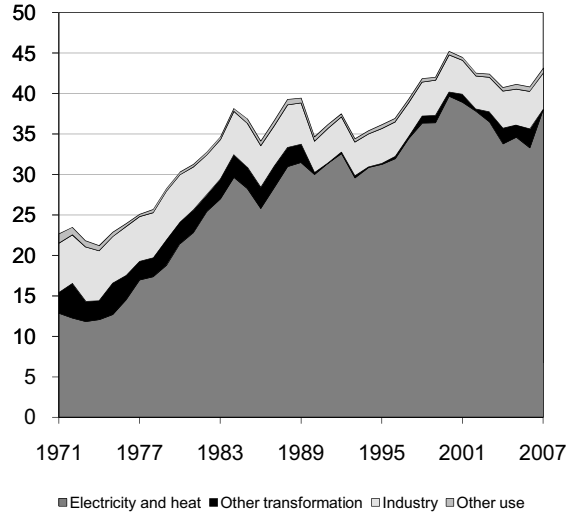


Chart 5: Electricity generation by fuel (TWh)

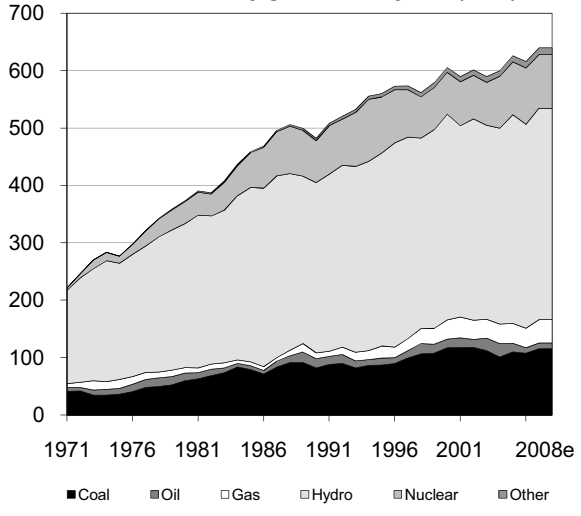
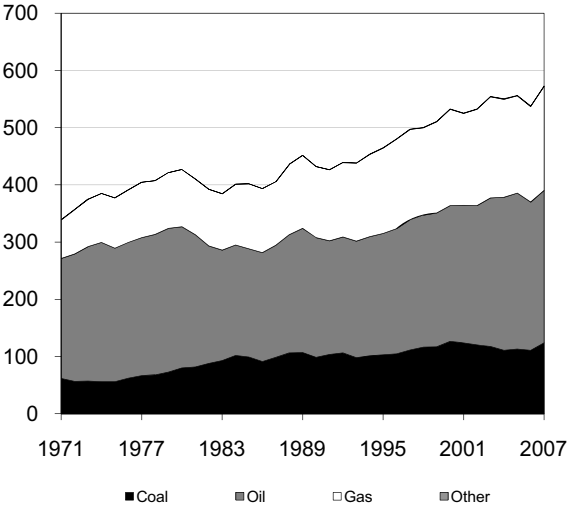


Chart 6: CO_2 emissions by fuel (Mt CO_2)



*Please refer to notes in *Principles and Definitions*. Peat is included in coal for all charts.

Canada

1. TOTAL PRIMARY ENERGY SUPPLY (TPES) BY FUEL*

	1973	1980	1990	2000	2006	2007	2008e	Average annual percent change 73-90	90-07
TPES (Mtce)	**227.63**	**275.14**	**298.11**	**358.81**	**384.57**	**384.81**	**382.05**	**1.60**	**1.51**
Coal and peat	21.80	30.32	34.68	45.23	40.86	42.96	37.22	2.77	1.27
Oil	113.41	126.46	109.31	124.03	135.11	134.93	133.58	-0.22	1.25
Gas	53.25	65.07	78.18	106.05	113.75	112.86	117.27	2.28	2.18
Comb. renew/waste	11.16	10.92	11.82	16.69	16.75	16.72	16.87	0.34	2.06
Nuclear	5.82	14.86	27.71	27.10	36.47	34.81	34.97	9.62	1.35
Hydro	23.91	30.86	36.46	44.05	43.66	45.26	45.75	2.51	1.28
Geothermal	-	-	-	-	-	-	-	-	-
Solar, wind, tide	-	-	0.00	0.04 e	0.31	0.38	0.38	-	32.43
Net electricity trade[1]	-1.72	-3.35	-0.04	-4.38	-2.35	-3.11	-3.99	-19.53	28.66
Heat[2]	-	-	-	-	-	-	-	-	-

Source: *IEA/OECD Energy Balances of OECD Countries*

(1) Net trade between OECD and non-OECD countries.

(2) Ambient heat from heat pumps used in the transformation sector.

2. ENERGY SUPPLY, GDP AND POPULATION*

	1973	1980	1990	2000	2006	2007	2008e	Average annual percent change 73-90	90-07
GDP (2000 bil. US$)	325	412	544	725	846	869	873	3.07	2.80
TPES/GDP[1]	0.70	0.67	0.55	0.49	0.45	0.44	0.44	-1.43	-1.25
Population (millions)	22.5	24.5	27.7	30.7	32.6	33.0	33.1	1.23	1.03
TPES/population[1]	10.12	11.22	10.76	11.69	11.78	11.67	11.53	0.36	0.48
TPES/GDP[2]	141.4	134.9	110.8	100.0	91.8	89.4	88.4	-1.43	-1.25
Coal and peat supply/GDP[2]	107.5	117.9	102.2	100.0	77.4	79.2	68.3	-0.29	-1.49
Elec. consumption/GDP[2]	101.9	110.8	115.8	100.0	88.3	88.0	..	0.76	-1.60
Elec. generation (TWh)	270	373	482	606	616	640	633	3.47	1.68
Industrial production[2]	51.2	56.2	69.0	100.0	100.7	100.6	95.9	1.78	2.24

Source: *IEA/OECD Energy Balances of OECD Countries* , *OECD Main Economic Indicators*

(1) TPES/GDP in units of tce/2000 thousand US$, TPES/population in units of tce/capita.

(2) As index, 2000 = 100

3. COAL AND PEAT PRODUCTION BY TYPE*

	1978[1]	1980	1990	2000	2006	2007	2008e	Average annual percent change 78-90	90-07
Mtce:									
Coking coal	13.39	13.75	27.17	23.92	22.08 e	23.77 e	23.73	6.07	-0.78
Steam coal	3.25	5.82	9.83	4.79	3.40 e	4.20 e	4.58	9.66	-4.88
Brown coal	7.82	9.72	17.18	20.44	20.74	20.44	20.07	6.78	1.03
Peat	-	-	-	-	-	-	-	-	-
Mt:									
Coking coal	13.78	14.15	27.66	28.16	26.00 e	27.99 e	27.94	5.98	0.07
Steam coal	3.36	6.02	10.01	5.64	3.90 e	4.82 e	5.26	9.52	-4.21
Brown coal	13.34	16.52	30.66	35.36	36.10	35.64	34.91	7.18	0.89
Peat	-	-	-	-	-	-	-	-	-

Source: *IEA/OECD Energy Balances of OECD Countries, IEA/OECD Energy Statistics of OECD Countries*

(1) Earliest year for which split by coal type is available.

* Please refer to notes in *Principles and Definitions* .

Canada

4. FINAL CONSUMPTION OF ENERGY BY FUEL*

(Mtce)

	1973	1980	1990	2000	2005	2006	2007	Average annual percent change 73-90	90-07
TFC[1]	**187.48**	**221.52**	**227.31**	**270.96**	**290.41**	**281.21**	**292.83**	**1.14**	**1.50**
Coal and peat	7.46	6.18	4.41	5.02	5.06	5.18	5.08	-3.04	0.83
Oil	108.07	114.27	98.27	115.40	132.92	127.77	130.51	-0.56	1.68
Gas	33.89	51.75	61.86	76.30	73.73	72.21	79.71	3.60	1.50
Comb. renew/wastes	10.88	10.60	10.42	13.84	14.37	13.76	13.87	-0.25	1.70
Geothermal	-	-	-	-	-	-	-	-	-
Solar, wind, tide	-	-	-	-	-	-	-	-	-
Electricity	27.04	37.25	51.37	59.17	62.92	61.00	62.45	3.85	1.16
Heat	0.14	1.47	0.98	1.23	1.40	1.30	1.21	12.26	1.28
of which:									
Total industry	**65.02**	**71.52**	**67.30**	**78.56**	**82.32**	**77.89**	**81.99**	**0.20**	**1.17**
Coal and peat	6.71	5.85	3.87	4.59	4.45	4.64	4.45	-3.18	0.82
Oil	20.06	16.56	9.70	9.22	12.62	8.60	8.88	-4.19	-0.52
Gas	16.95	23.14	24.07	27.59	26.79	27.60	32.45	2.08	1.77
Comb. renew/wastes	8.15	7.87	8.13	11.03	11.23	10.91	10.27	-0.02	1.39
Geothermal	-	-	-	-	-	-	-	-	-
Solar, wind, tide	-	-	-	-	-	-	-	-	-
Electricity	13.01	16.67	20.63	24.98	26.00	24.99	24.92	2.75	1.12
Heat	0.14	1.43	0.90	1.15	1.24	1.15	1.02	11.73	0.72
Total transport	**48.00**	**63.31**	**61.60**	**74.49**	**79.51**	**79.10**	**82.65**	**1.48**	**1.74**
Coal and peat	0.18	-	-	-	-	-	-	-	-
Oil	47.42	60.70	57.06	66.95	72.61	72.51	75.28	1.09	1.64
Gas	-	2.33	4.14	6.79	6.14	5.84	5.92	-	2.14
Comb. renew/wastes	-	-	-	0.19	0.24	0.20	0.95	-	-
Electricity	0.40	0.28	0.40	0.56	0.52	0.56	0.50	0.06	1.27
Residential	**36.34**	**40.43**	**41.19**	**44.09**	**44.73**	**42.79**	**46.00**	**0.74**	**0.65**
Coal and peat	0.57	0.11	0.07	0.05	0.05 e	0.06 e	0.05 e	-11.87	-1.56
Oil	17.92	14.67	6.66	4.64	3.39	3.08	3.31	-5.66	-4.03
Gas	8.73	12.49	16.22	19.80	19.85	18.96	20.99	3.71	1.53
Comb. renew/wastes	2.73	2.73 e	2.30	2.62	2.89 e	2.65	2.65	-1.01	0.84
Geothermal	-	-	-	-	-	-	-	-	-
Solar, wind, tide	-	-	-	-	-	-	-	-	-
Electricity	6.38	10.42	15.95	16.98	18.55	18.06	19.01	5.54	1.04
Heat	-	-	0.00	-	0.00	0.00	0.00	-	4.16
Comm & public services	**24.13**	**26.13**	**31.04**	**39.17**	**44.44**	**42.26**	**43.63**	**1.49**	**2.02**
Coal and peat	0.00	0.04	0.01	0.00	-	-	-	6.38	-
Oil	8.93	7.08	5.82	8.25	12.27	11.65	11.72	-2.48	4.20
Gas	8.20	10.05	11.89	15.45	15.50	14.35	14.89	2.21	1.33
Comb. renew/waste	-	-	-	-	-	-	0.01 e	-	-
Geothermal	-	-	-	-	-	-	-	-	-
Solar, wind, tide	-	-	-	-	-	-	-	-	-
Electricity	7.00	8.92	13.31	15.46	16.58	16.18	16.89	3.86	1.41
Heat	-	0.04	0.01	0.01	0.09	0.09	0.13	-	18.83
Non-energy use	**10.44**	**16.65**	**21.46**	**28.56**	**34.22**	**33.92**	**33.06**	**4.33**	**2.57**
Coal and peat	-	0.18	0.47	0.38	0.56	0.49	0.57	-	1.24
Oil	10.44	13.14	16.16	22.35	28.81	28.61	27.71	2.61	3.22
Gas	-	3.33	4.83	5.84	4.85	4.82	4.77	-	-0.07

Source: *IEA/OECD Energy Balances of OECD Countries*

(1) Total Final Consumption (TFC) excludes use in transformation and energy sectors.

* Please refer to notes in *Principles and Definitions*.

Canada

5. COAL BALANCE*

(Mtce)

	1973	1980	1990	2000	2006	2007	2008e	Average annual percent change 73-90	90-07
Production	16.7	29.3	54.2	49.2	46.2 e	48.4 e	48.4	7.2	-0.7
Imports	15.0	15.4	13.6	21.5	18.1 e	19.4 e	17.1	-0.5	2.1
Exports	-10.9	-14.9	-30.6	-27.5	-24.1 e	-25.7 e	-27.9	6.3	-1.0
Stock changes	1.0	0.5	-2.5	2.1	0.6 e	0.9 e	-0.4	x	x
Primary supply	**21.8**	**30.3**	**34.7**	**45.2**	**40.9**	**43.0**	**37.2**	**2.8**	**1.3**
Statistical difference	**0.5**	**0.1**	**1.7**	**1.2**	**-0.1**	**2.5**	**..**	**x**	**x**
Total transformation	**-14.8 e**	**-24.3 e**	**-31.8 e**	**-41.3 e**	**-35.1 e**	**-39.9 e**	**..**	**4.6**	**1.3**
Electricity and heat gen.	-11.9	-21.5	-30.0	-39.7	-33.3 e	-38.1 e	..	5.6	1.4
Main activity producers (1)	*-11.9*	*-21.4*	*-30.0*	*-39.6*	*-33.3 e*	*-38.1 e*	*..*	*5.6*	*1.4*
Autoproducers	-	*-0.0*	*-0.0*	*-0.1*	*-0.1 e*	*-0.0 e*	*..*	-	*0.7*
Gas works	-	-	-	-	-	-	..	-	-
Coal transformation(2)	-2.9 e	-2.8 e	-1.8 e	-1.6 e	-1.7 e	-1.8 e	..	-2.8	-0.0
BKB plants	-	-	-	-	-	-	..	-	-
Blast furnaces	*-1.9 e*	*-2.1 e*	*-1.5 e*	*-1.4 e*	*-1.4 e*	*-1.4 e*	*..*	*-1.2*	*-0.4*
Coke ovens	*-1.0*	*-0.7*	*-0.3*	*-0.2*	*-0.3 e*	*-0.4*	*..*	*-7.8*	*2.1*
Patent fuel plants	-	-	-	-	-	-	..	-	-
Other transformation(3)	-	-	-	-	-	-	..	-	-
Own use	**-0.1**	**-0.0**	**-0.1**	**-0.1**	**-0.5 e**	**-0.5 e**	**..**	**2.6**	**8.0**
Distribution losses	**-**	**-**	**-**	**-**	**-**	**-**	**..**	**x**	**x**
Final consumption(4)	**7.5**	**6.2**	**4.4**	**5.0**	**5.2**	**5.1**	**..**	**-3.0**	**0.8**
Industry sector(5)	6.7	5.9	3.9	4.6	4.6	4.5	..	-3.2	0.8
Iron and steel	*3.7 e*	*4.1 e*	*2.3 e*	*2.6 e*	*2.6 e*	*2.3 e*	*..*	*-2.8*	*0.1*
Chemical	-	*0.0*	-	-	-	-	..	-	-
Non-metallic minerals	*0.7*	*0.3*	*0.7*	*1.0*	*1.1 e*	*1.2 e*	*..*	*-0.0*	*3.4*
Paper, pulp and print	*0.3*	*0.3*	*0.1*	*0.1*	*0.0 e*	*0.0 e*	*..*	*-4.4*	*-6.4*
Transport sector(6)	0.2	-	-	-	-	-	..	-	-
Other sectors(7)	0.6	0.1	0.1	0.1	0.1	0.1	..	-11.4	-2.1
Comm. and pub. services	*0.0*	*0.0*	*0.0*	*0.0*	-	-	*..*	*6.4*	-
Residential	*0.6*	*0.1*	*0.1*	*0.1*	*0.1 e*	*0.1 e*	*..*	*-11.9*	*-1.6*
Non-energy use	-	0.2	0.5	0.4	0.5	0.6	..	-	1.2

Source: *IEA/OECD Energy Balances of OECD Countries*

(1) Main activity electricity and heat generation includes district heating.

(2) Coal transformation refers to the transformation of coal and peat to secondary and tertiary products (mainly coke, briquettes, coke oven gas and blast furnace gas).

(3) Other transformation includes liquefaction and non-specified transformation.

(4) Final Consumption includes non-energy use and energy use (industry, transport and other sectors).

(5) Please refer to notes in *Principles and Definitions* for detailed explanation.

(6) Transport sector includes rail and inland waterways.

(7) Other sectors includes commercial and public services, agriculture, and residential.

* "Coal" refers to all types of coal, primary (anthracite, coking coal, other bituminous coal, sub-bituminous coal, lignite/brown coal, peat) and derived fuels (including patent fuel, BKB/peat briquettes, coke oven coke, gas coke, coal tar, coke oven gas, gas works gas, blast furnace gas and oxygen steel furnace gas). Quantities have been converted to Mtce using calorific values reported by the respective countries. Please refer to notes in *Principles and Definitions*.

Canada

6. USE OF COAL FOR SELECTED END-USES*

(million tonnes)

	1978	1980	1990	2000	2005	2006	2007	Average annual percent change 78-90	90-07
Steam coal	**11.51**	**14.04**	**13.86**	**18.04**	**16.16**	**16.69**	**17.83**	**1.56**	**1.49**
Total electricity and heat	10.30	12.66	12.21	15.75	13.21	14.98	15.85	1.42	1.55
Main activity producers	*10.29*	*12.65*	*12.19*	*15.74*	*13.20*	*14.97*	*15.84*	*1.42*	*1.55*
Autoproducers	*0.01*	*0.01*	*0.02*	*0.01*	*0.01*	*0.01*	*0.01*	*2.12*	*-4.00*
Patent fuel/BKB plants	-	-	-	-	-	-	-	-	-
Coke ovens	-	-	-	-	- e	- e	- e	-	-
Blast furnace inputs	-	-	-	-	-	-	-	-	-
Gas manufacture	-	-	-	-	-	-	-	-	-
Industry sector	1.41	1.52	1.22	1.74	1.86	2.03	2.18	-1.20	3.48
Iron and steel	*0.07*	*0.09*	-	-	-	-	-	-	-
Chemical	*0.26*	*0.05*	-	-	-	-	-	-	-
Non-metallic minerals	*0.36*	*0.35*	*0.69*	*1.03*	*1.20*	*1.22*	*1.32*	*5.41*	*3.94*
Paper, pulp and print	*0.28*	*0.22*	*0.09*	*0.03*	*0.02*	*0.02*	*0.02*	*-8.64*	*-9.57*
Other industry	*0.44*	*0.82*	*0.44*	*0.67*	*0.64*	*0.80*	*0.84*	*0.02*	*3.88*
Res, comm & pub serv[1]	0.05	0.06	0.04	0.02	0.02	0.03	0.03	-0.95	-2.87
Non-energy use	-	0.02	0.26	0.33	0.53	0.44	0.53	-	4.28
Coking coal	**6.78**	**7.32**	**5.02**	**4.46**	**4.29**	**4.55**	**5.43**	**-2.46**	**0.46**
Total electricity and heat	-	-	-	-	-	-	-	-	-
Main activity producers	-	-	-	-	-	-	-	-	-
Autoproducers	-	-	-	-	-	-	-	-	-
Patent fuel/BKB plants	-	-	-	-	-	-	-	-	-
Coke ovens	6.98	7.31	5.00	4.23	4.29 e	4.33 e	4.30 e	-2.74	-0.87
Blast furnace inputs	-	-	-	-	-	-	-	-	-
Gas manufacture	-	-	-	-	-	-	-	-	-
Industry sector	-	-	-	-	-	-	-	-	-
Iron and steel	-	-	-	-	-	-	-	-	-
Chemical	-	-	-	-	-	-	-	-	-
Non-metallic minerals	-	-	-	-	-	-	-	-	-
Paper, pulp and print	-	-	-	-	-	-	-	-	-
Other industry	-	-	-	-	-	-	-	-	-
Res, comm & pub serv[1]	-	-	-	-	-	-	-	-	-
Non-energy use	-	-	-	-	-	-	-	-	-
Brown coal/lignite	**13.17**	**15.91**	**30.26**	**40.47**	**39.76**	**36.70**	**37.78**	**7.18**	**1.31**
Total electricity and heat	12.61	15.61	29.95	40.08	39.26	35.26	37.31	7.47	1.30
Main activity producers	*12.61*	*15.61*	*29.95*	*40.08*	*39.26*	*35.26*	*37.31*	*7.47*	*1.30*
Autoproducers	-	-	-	-	-	-	-	-	-
Patent fuel/BKB plants	-	-	-	-	-	-	-	-	-
Coke ovens	-	-	-	-	-	-	-	-	-
Gas manufacture	-	-	-	-	-	-	-	-	-
Industry sector	0.29	0.25	0.17	0.16	0.10	0.10	0.10	-4.25	-3.22
Iron and steel	-	-	-	-	-	-	-	-	-
Chemical	-	-	-	-	-	-	-	-	-
Non-metallic minerals	-	-	-	-	-	-	-	-	-
Paper, pulp and print	*0.17*	*0.19*	*0.10*	*0.10*	*0.06*	*0.06*	*0.06*	*-4.60*	*-2.82*
Other industry	*0.12*	*0.06*	*0.08*	*0.07*	*0.04*	*0.04*	*0.04*	*-3.77*	*-3.77*
Res, comm & pub serv[1]	0.25	0.16	0.06	0.07	0.06	0.06	0.06	-11.22	-0.10
Non-energy use	-	-	0.09	0.14	0.16	0.16	0.16	-	3.59

Source: *IEA/OECD Energy Statistics of OECD Countries*

(1) Residential, commercial and public services.

* Please refer to notes in *Principles and Definitions* .

Canada

7. FUEL PRICES TO END USERS*

	1978[1]	1980	1990	2000	2004	2005	2006	2007	2008
				(US dollars / tce)					
For electricity generation									
Steam coal	37.88	48.61	61.02	20.54	23.34	28.16	30.19	..	..
Heavy fuel oil	51.11	58.22	..	87.53	103.15	144.70	162.14	..	..
Natural gas	34.43	32.89	48.90	104.81	133.68	175.22	170.13	..	..
For industry									
Steam coal	43.98	42.74	..	..	..	..	..	..	..
Coking coal	62.70	64.82	..	..	..	..	..	..	..
High sulphur fuel oil	51.91	71.09	93.40	148.04	181.94	243.30	268.17	321.39	416.74
Low sulphur fuel oil	..	..	..	..	..	..	..	..	..
Natural gas	43.30	50.88	65.09	69.84	173.95	226.41	211.58	206.85	277.66
				(Canadian dollars / unit)[2]					
For electricity generation									
Steam coal	37.62	49.49	62.00	26.55	26.44	29.70	29.81	..	..
Heavy fuel oil	79.95	93.37	..	178.28	184.06	240.46	252.23	..	..
Natural gas	50.49	49.45	73.37	200.12	223.63	272.97	248.12	..	..
For industry									
Steam coal	51.08	50.89	..	..	..	..	..	..	..
Coking coal	73.20	77.58	..	..	..	..	..	..	..
High sulphur fuel oil	81.21	114.01	149.50	301.51	324.65	404.30	417.17	473.47	610.17
Low sulphur fuel oil	..	..	..	..	..	..	..	..	..
Natural gas	63.50	76.50	97.67	133.36	290.99	352.73	308.56	285.68	381.13

Source: *IEA/OECD Energy Prices & Taxes*

(1) Earliest year for which split by coal type is available.

(2) For steam coal, coking coal and heavy fuel oil per metric tonne; for natural gas per 10^7 kilocalories GCV.

* Please refer to notes in *Principles and Definitions*.

8. COAL TRADE BY TYPE OF COAL*

(Mtce)

	1973	1980	1990	2000	2004	2005	2006	2007	2008e
Total imports	**14.95**	**15.40**	**13.64**	**21.50**	**15.82**	**16.83**	**18.13**	**19.36**	**17.12**
Hard coal	14.62	15.15	13.32	18.15	11.66	12.71	14.25	15.21	10.00
Coking coal	*..*	*6.21*	*4.22*	*4.15*	*3.31 e*	*4.09 e*	*4.11 e*	*3.30 e*	*3.18*
Steam coal	*..*	*8.94*	*9.10*	*14.00*	*8.35 e*	*8.62 e*	*10.14 e*	*11.92 e*	*6.82*
Brown coal / lignite	-	-	-	2.76	3.91	4.03	2.94	3.34	5.81
Peat	-	-	-	-	-	-	-	-	-
Coal products[1]	0.33	0.25	0.32	0.59	0.25	0.08	0.93	0.81	1.31
Total exports	**10.91**	**14.91**	**30.63**	**27.53**	**22.12**	**24.08**	**24.07**	**25.69**	**27.89**
Hard coal	10.56	14.84	30.45	27.25	21.94	23.86	23.83	25.32	26.87
Coking coal	*..*	*13.73*	*26.37*	*24.11*	*20.25 e*	*22.68 e*	*21.40 e*	*22.05 e*	*22.63*
Steam coal	*..*	*1.10*	*4.08*	*3.14*	*1.69 e*	*1.18 e*	*2.43 e*	*3.26 e*	*4.24*
Brown coal / lignite	0.00	-	0.00	-	0.06	0.07	0.14	0.21	0.91
Peat	-	-	-	-	-	-	-	-	-
Coal products[1]	0.34	0.07	0.18	0.28	0.12	0.14	0.10	0.17	0.11

Source: *IEA/OECD Energy Balances of OECD Countries, IEA/OECD Energy Statistics of OECD Countries*

(1) Coal products includes products derived from coal, for example: coke, coal tar, briquettes, patent fuels.

* Please refer to notes in *Principles and Definitions*.

Canada

9. HARD COAL IMPORTS BY ORIGIN*

(thousand tonnes)

	1978[1]	1980	1990	2000	2004	2005	2006	2007	2008e
Hard Coal	**14250**	**15634**	**14169**	**18790**	**12797 e**	**14104 e**	**15868 e**	**17057**	**11082**
Coking Coal	**5454**	**6389**	**4491**	**4296**	**3429 e**	**4228 e**	**4253 e**	**3409**	**3286**
Australia	-	-	-	-	-	-	-	-	-
Canada	-	-	-	-	-	-	-	-	-
Czech Republic	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-
Poland	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-
United States	5454	6389	4491	4296	3429 e	4160 e	4133 e	3322	3286
Other OECD	-	-	-	-	-	-	-	-	-
China, People's Rep.	-	-	-	-	-	-	-	87 e	-
Colombia	-	-	-	-	- e	9 e	7 e	-	-
Indonesia	-	-	-	-	-	-	-	-	-
South Africa	-	-	-	-	-	-	-	-	-
Former USSR[2]	-	-	-	-	-	-	-	-	-
Russia[3]	-	-	-	-	-	-	-	-	-
Other Former USSR[3]	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-
Non-specified/other	-	-	-	-	-	59 e	113 e	-	-
Steam coal	**8796**	**9245**	**9678**	**14494**	**9368 e**	**9876 e**	**11615 e**	**13648**	**7796**
Australia	-	-	-	-	-	-	-	-	-
Canada	-	-	-	-	-	-	-	-	-
Czech Republic	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-
Poland	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	5
United States	8796	9245	9639	14090	7371 e	6318 e	8537 e	7873	6033
Other OECD	-	-	-	-	-	-	-	-	-
China, People's Rep.	-	-	-	155	-	51 e	16 e	-	1
Colombia	-	-	-	-	889 e	2086 e	2120 e	1543	1445
Indonesia	-	-	-	-	-	-	-	-	-
South Africa	-	-	-	61	-	-	200 e	-	-
Former USSR[2]	-	-	-	-	-	-	-	-	-
Russia[3]	-	-	-	*26*	*35 e*	*329 e*	*299 e*	*475*	*226*
Other Former USSR[3]	-	-	-	-	*169 e*	*62 e*	-	*64*	*19*
Venezuela	-	-	39	91	706 e	564 e	443 e	624	67
Vietnam	-	-	-	-	-	-	-	-	-
Non-specified/other	-	-	-	71	198 e	466 e	-	3069	-

Source: IEA/OECD Coal Statistics

(1) Earliest year for which split by coal type is available.

(2) If no detail.

(3) Data for former republics are not available separately for some OECD member countries.

* Please refer to notes in *Principles and Definitions*.

Canada

10. COKING COAL EXPORTS BY DESTINATION*

(thousand tonnes)

	1978[1]	1980	1990	2000	2004	2005	2006	2007	2008e
Total Exports	**13017**	**14127**	**26851**	**28386**	**23847 e**	**26710 e**	**25203 e**	**25968 e**	**26643**
Exports to:									
Total OECD	**12217**	**12785**	**19684**	**22440**	**18487 e**	**21719 e**	**20791 e**	**23321 e**	**22718**
Australia	-	-	-	-	-	-	-	-	-
Austria	-	-	-	-	-	-	-	-	-
Belgium	147	21	6	374	293 e	58 e	-	-	-
Canada	-	-	-	-	-	-	-	-	-
Czech Republic	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-
Finland	-	-	41	-	200 e	516 e	494 e	345 e	426
France	-	-	379	585	388 e	494 e	372 e	592 e	569
Germany	-	161	72	792	1814 e	1757 e	1680 e	1733 e	1381
Greece	-	316	-	-	553 e	-	-	-	-
Hungary	-	-	-	-	-	-	-	-	165
Iceland	-	-	-	-	-	-	-	-	-
Ireland	-	-	-	-	-	-	-	-	-
Italy	164	48	159	1170	891 e	1469 e	1177 e	1126 e	1081
Japan	10934	10711	16569	12085	4883 e	6794 e	7225 e	8430 e	8610
Korea	668	1295	-	3851	3625 e	4770 e	4441 e	5099 e	5079
Luxembourg	-	-	-	-	-	-	-	-	-
Mexico	-	28	-	385	483 e	406 e	274 e	230 e	694
Netherlands	-	-	369	408	1139 e	807 e	994 e	1047 e	599
New Zealand	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-
Poland	-	-	-	-	-	-	-	-	-
Portugal	-	-	519	-	-	-	-	-	-
Slovak Republic	-	-	-	-	-	-	-	631 e	234
Spain	150	48	-	338	113 e	344 e	175 e	226 e	235
Sweden	154	157	102	-	-	-	-	-	-
Switzerland	-	-	-	-	-	-	-	-	-
Turkey	-	-	51	819	1306 e	1025 e	1080 e	957 e	956
United Kingdom	-	-	645	1093	1064 e	1677 e	1418 e	1437 e	1122
United States	-	-	772	540	1735 e	1602 e	1461 e	1468 e	1567
Total Non-OECD	**800**	**1306**	**1969**	**3107**	**5360 e**	**4991 e**	**3801 e**	**2107 e**	**2683**
Brazil	600	626	1108	1471	1469 e	1718 e	1584 e	1449 e	1446
Chinese Taipei	-	211	-	1324	990 e	1274 e	1220 e	-	-
Egypt	-	-	-	-	381 e	426 e	220 e	74 e	141
Hong Kong, China	-	-	-	-	-	-	-	-	-
India	200	263	-	-	49 e	-	69 e	-	-
Israel	-	-	-	-	-	-	-	-	-
Romania	-	-	-	-	-	-	-	-	70
Oth. Africa & Mid. East	-	-	129	-	-	-	-	-	-
Other Latin America	-	182	224	312	365 e	368 e	373 e	344 e	366
Other Asia & Oceania	-	24	508	-	1967 e	1060 e	265 e	240 e	660
Other Europe and FSU	-	-	-	-	139 e	145 e	70 e	-	-
Non-Specified/Other	**-**	**36**	**5198**	**2839**	**-**	**-**	**611 e**	**540 e**	**1242**

Source: IEA/OECD Coal Statistics

(1) Earliest year for which split by coal type is available.

* Please refer to notes in *Principles and Definitions*.

Canada

11. STEAM COAL EXPORTS BY DESTINATION*

(thousand tonnes)

	1978[1]	1980	1990	2000	2004	2005	2006	2007	2008e
Total Exports	**971**	**1142**	**4149**	**3696**	**1899 e**	**1354 e**	**2786 e**	**3748 e**	**4870**
Exports to:									
Total OECD	**971**	**1142**	**2706**	**3419**	**1261 e**	**1132 e**	**2139 e**	**3216 e**	**4144**
Australia	-	-	-	-	-	-	-	-	-
Austria	-	-	-	-	-	-	-	-	-
Belgium	27	-	-	151	-	-	-	-	-
Canada	-	-	-	-	-	-	-	-	-
Czech Republic	-	-	-	-	-	-	-	-	-
Denmark	309	252	479	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-
France	-	-	18	-	-	-	-	6 e	-
Germany	492	442	64	55	-	-	-	-	-
Greece	-	-	-	-	-	-	-	-	-
Hungary	-	-	-	-	-	-	-	-	-
Iceland	-	-	-	-	-	-	-	-	-
Ireland	-	-	-	-	-	-	-	-	-
Italy	-	-	-	14	-	-	-	-	-
Japan	83	412	1933	1244	501 e	726 e	1375 e	2094 e	2001
Korea	56	-	-	1767	-	169 e	534 e	908 e	1929
Luxembourg	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	75
Netherlands	-	-	-	-	-	-	-	-	-
New Zealand	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-
Poland	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-
Slovak Republic	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-
Sweden	-	35	-	-	-	-	-	-	-
Switzerland	-	-	-	-	-	-	-	-	-
Turkey	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	18	80	-	-	-	55 e	-
United States	4	1	194	108	760 e	237 e	230 e	153 e	139
Total Non-OECD	**-**	**-**	**218**	**-**	**45 e**	**180 e**	**350 e**	**532 e**	**656**
Brazil	-	-	98	-	-	-	-	-	73
Chinese Taipei	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-
Hong Kong, China	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-
Israel	-	-	-	-	-	-	-	172 e	328
Romania	-	-	-	-	-	-	-	-	-
Oth. Africa & Mid. East	-	-	-	-	-	-	-	-	-
Other Latin America	-	-	120	-	45 e	180 e	348 e	358 e	76
Other Asia & Oceania	-	-	-	-	-	-	2 e	2 e	179
Other Europe and FSU	-	-	-	-	-	-	-	-	-
Non-Specified/Other	**-**	**-**	**1225**	**277**	**593 e**	**42 e**	**297 e**	**-**	**70**

Source: IEA/OECD Coal Statistics

(1) Earliest year for which split by coal type is available.

* Please refer to notes in *Principles and Definitions* .

Czech Republic*

Chart 1: TPES by fuel (Mtce)

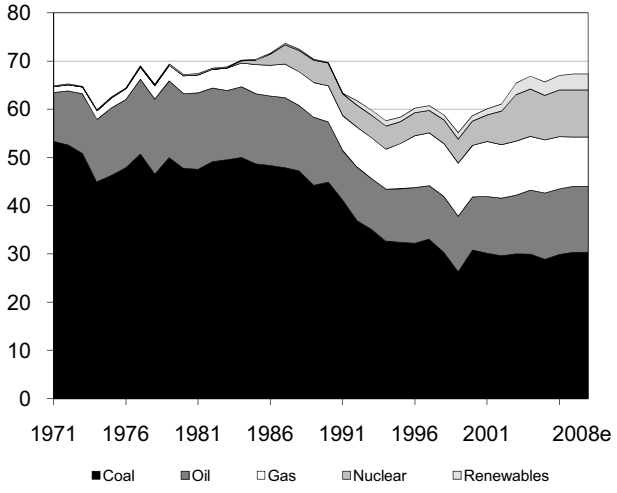


Chart 2: Coal supply indicators (1971 = 100)

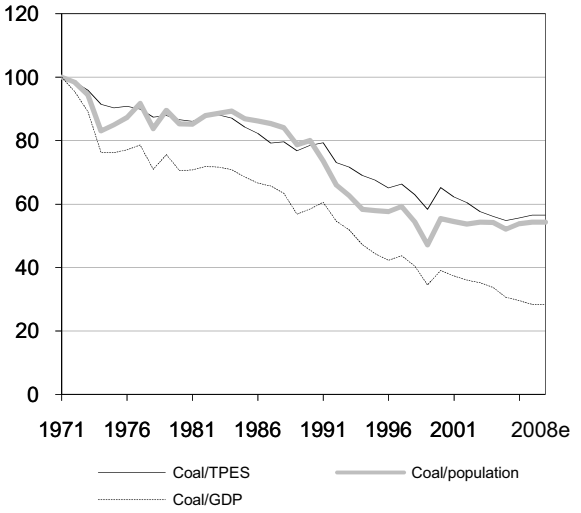


Chart 3: Primary coal supply (Mtce)

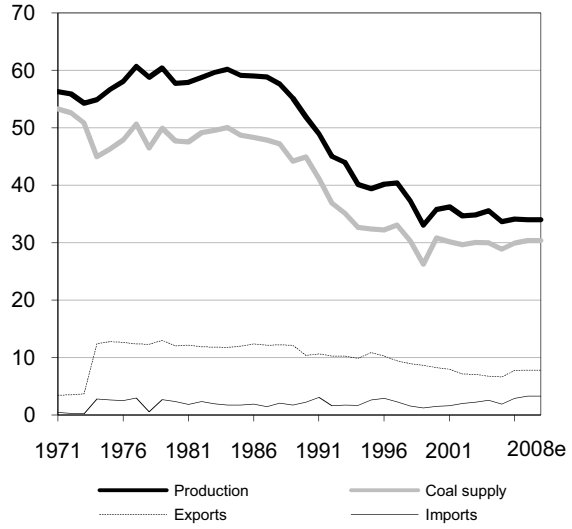


Chart 4: Coal consumption (Mtce)

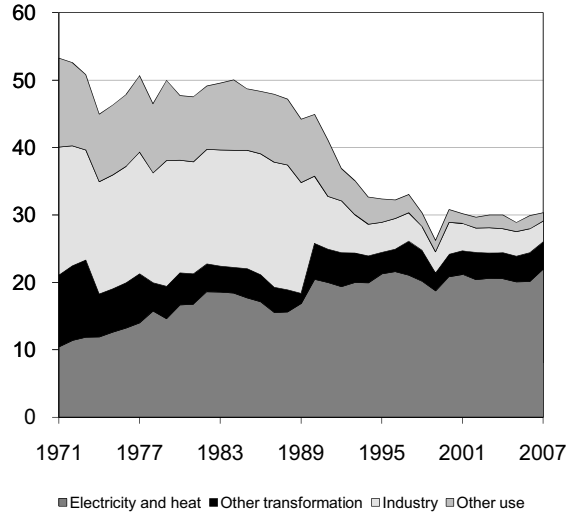


Chart 5: Electricity generation by fuel (TWh)

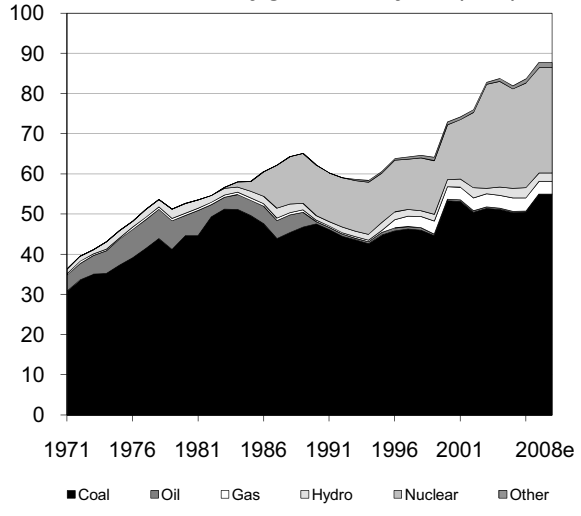
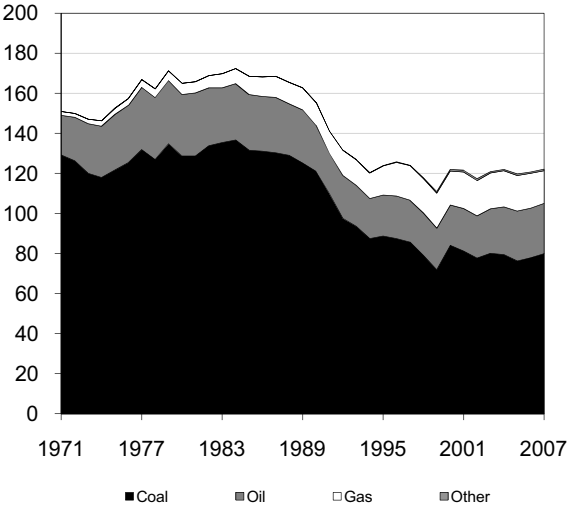


Chart 6: CO_2 emissions by fuel (Mt CO_2)



*Please refer to notes in *Principles and Definitions* . Peat is included in coal for all charts.

Czech Republic

1. TOTAL PRIMARY ENERGY SUPPLY (TPES) BY FUEL*

	1973	1980	1990	2000	2006	2007	2008e	Average annual percent change 73-90	90-07
TPES (Mtce)	**64.51**	**67.06**	**69.65**	**57.50**	**65.51**	**65.36**	**64.92**	**0.45**	**-0.37**
Coal and peat	50.84	47.75	44.94	30.83	29.94	30.38	29.38	-0.72	-2.28
Oil	12.37	15.48	12.46	11.01	13.58	13.65	13.55	0.04	0.54
Gas	1.44	3.72	7.51	10.71	10.81	10.23	10.17	10.20	1.83
Comb. renew/waste	-	-	-	0.91	2.66	3.02	3.01	-	-
Nuclear	-	-	4.69	5.06	9.73	9.78	9.92	-	4.42
Hydro	0.13	0.29	0.14	0.22	0.31	0.26	0.25	0.42	3.52
Geothermal	-	-	-	-	-	-	-	-	-
Solar, wind, tide	-	-	-	-	0.01	0.02	0.04	-	-
Net electricity trade[1]	-0.27	-0.19	-0.09	-1.23	-1.55	-1.98	-1.41	-6.60	20.36
Heat[2]	-	-	-	-0.00	0.01	0.02	0.02	-	-

Source: *IEA/OECD Energy Balances of OECD Countries*

(1) Net trade between OECD and non-OECD countries.

(2) Ambient heat from heat pumps used in the transformation sector.

2. ENERGY SUPPLY, GDP AND POPULATION*

	1973	1980	1990	2000	2006	2007	2008e	Average annual percent change 73-90	90-07
GDP (2000 bil. US$)	41 e	49 e	55	57	73	77	81	1.77	1.97
TPES/GDP[1]	1.57 e	1.38 e	1.26	1.01	0.90	0.85	0.81	-1.30	-2.30
Population (millions)	9.9	10.3	10.4	10.3	10.3	10.3	10.3	0.26	-0.02
TPES/population[1]	6.50	6.49	6.72	5.60	6.38	6.33	6.31	0.20	-0.35
TPES/GDP[2]	155.1 e	135.9 e	124.2	100.0	88.8	83.6	79.5	-1.30	-2.30
Coal and peat supply/GDP[2]	228.0 e	180.5 e	149.5	100.0	75.7	72.5	67.2	-2.45	-4.17
Elec. consumption/GDP[2]	82.6 e	89.4 e	100.1	100.0	90.0	85.3	..	1.14	-0.94
Elec. generation (TWh)	41	53	62	73	84	88	83	2.46	2.04
Industrial production[2]	..	..	120.0	100.0	144.5	159.6	156.6	-	1.69

Source: *IEA/OECD Energy Balances of OECD Countries* , *OECD Main Economic Indicators*

(1) TPES/GDP in units of tce/2000 thousand US$, TPES/population in units of tce/capita.

(2) As index, 2000 = 100

3. COAL AND PEAT PRODUCTION BY TYPE*

	1978[1]	1980	1990	2000	2006	2007	2008e	Average annual percent change 78-90	90-07
Mtce:									
Coking coal	14.81	13.89	13.78	7.92	7.57	7.49	7.33	-0.60	-3.52
Steam coal	6.57	6.40	-	-	-	-	-	-	-
Brown coal	37.25	37.35	38.10	27.86	26.53	26.52	25.48	0.19	-2.11
Peat	0.17	0.14	-	-	-	-	-	-	-
Mt:									
Coking coal	18.55	17.40	14.38	8.14	7.75	7.67	7.51	-2.10	-3.63
Steam coal	10.60	10.32	-	-	-	-	-	-	-
Brown coal	88.84	89.09	87.02	57.03	55.16	54.95	52.68	-0.17	-2.67
Peat	0.60	0.50	-	-	-	-	-	-	-

Source: *IEA/OECD Energy Balances of OECD Countries, IEA/OECD Energy Statistics of OECD Countries*

(1) Earliest year for which split by coal type is available.

* Please refer to notes in *Principles and Definitions* .

Czech Republic

4. FINAL CONSUMPTION OF ENERGY BY FUEL*

(Mtce)

	1973	1980	1990	2000	2005	2006	2007	Average annual percent change 73-90	90-07
TFC[1]	**44.78**	**49.51**	**47.84**	**35.66**	**39.49**	**40.02**	**38.51**	**0.39**	**-1.27**
Coal and peat	27.50	26.33	19.12	6.65	5.00	5.53	4.33	-2.12	-8.37
Oil	11.07	13.18	11.71	10.42	13.24	13.17	13.22	0.33	0.72
Gas	2.59	3.40	6.86	8.45	8.83	8.78	8.43	5.90	1.22
Comb. renew/wastes	-	-	-	0.33	2.08	2.23	2.50	-	-
Geothermal	-	-	-	-	-	-	-	-	-
Solar, wind, tide	-	-	-	-	0.00	0.00	0.01	-	-
Electricity	3.62	4.65	5.92	6.07	6.79	7.00	7.03	2.93	1.02
Heat	-	1.95	4.23	3.75	3.54	3.30	2.99	-	-2.01
of which:									
Total industry	**25.18**	**26.80**	**22.73**	**13.03**	**12.41**	**12.34**	**12.04**	**-0.60**	**-3.67**
Coal and peat	16.34	16.70	9.96	4.75	3.63	3.55	3.07	-2.87	-6.69
Oil	5.88	6.96	4.13	0.93	0.79	0.65	0.68	-2.06	-10.10
Gas	0.66	0.40	3.79	3.72	3.45	3.51	3.58	10.87	-0.33
Comb. renew/wastes	-	-	-	0.20	0.71	0.72	0.74	-	-
Geothermal	-	-	-	-	-	-	-	-	-
Solar, wind, tide	-	-	-	-	-	-	-	-	-
Electricity	2.31	2.73	3.31	2.33	2.84	2.90	2.97	2.14	-0.63
Heat	-	-	1.54	1.11	0.99	1.01	1.01	-	-2.44
Total transport	**3.10**	**3.28**	**3.70**	**6.05**	**8.41**	**8.57**	**9.04**	**1.05**	**5.39**
Coal and peat	0.17	0.14	-	-	0.01	0.01	0.01	-	-
Oil	2.70	2.86	3.31	5.63	8.07	8.20	8.64	1.22	5.80
Gas	-	-	-	0.04	0.06	0.06	0.06	-	-
Comb. renew/wastes	-	-	-	0.09	0.00	0.03	0.04	-	-
Electricity	0.23	0.28	0.39	0.29	0.27	0.27	0.28	3.08	-1.88
Residential	**10.05**	**10.65**	**11.34**	**7.58**	**8.89**	**9.30**	**8.35**	**0.71**	**-1.78**
Coal and peat	9.29 e	8.04 e	6.71 e	1.12	0.80	1.17	0.70	-1.89	-12.48
Oil	0.07	0.12	0.12	0.11	0.05	0.05	0.04	3.64	-7.00
Gas	0.22	0.55	1.53	2.93	3.30	3.25	2.91	12.25	3.84
Comb. renew/wastes	-	-	-	-	1.26	1.37	1.59	-	-
Geothermal	-	-	-	-	-	-	-	-	-
Solar, wind, tide	-	-	-	-	0.00	0.00	0.00	-	-
Electricity	0.48	0.76	1.18	1.70	1.81	1.87	1.80	5.42	2.50
Heat	-	1.18	1.78	1.73	1.67	1.59	1.32	-	-1.76
Comm & public services	**0.89**	**2.26**	**4.32**	**4.26**	**4.43**	**4.38**	**4.19**	**9.76**	**-0.18**
Coal and peat	0.39 e	0.33 e	1.86 e	0.34	0.11	0.24	0.07	9.55	-17.82
Oil	-	0.13	0.07	0.01	0.02	0.02	0.02	-	-8.05
Gas	0.25	0.63	1.27	1.58	1.82	1.74	1.73	10.14	1.82
Comb. renew/waste	-	-	-	0.04	0.08	0.08	0.10	-	-
Geothermal	-	-	-	-	-	-	-	-	-
Solar, wind, tide	-	-	-	-	0.00	0.00	0.00	-	-
Electricity	0.25	0.41	0.45	1.42	1.54	1.59	1.63	3.56	7.89
Heat	-	0.77	0.67	0.88	0.86	0.69	0.64	-	-0.24
Non-energy use	**1.64**	**1.78**	**2.47**	**3.05**	**4.21**	**4.26**	**3.84**	**2.45**	**2.63**
Coal and peat	-	-	-	-	0.42	0.53	0.47	-	-
Oil	1.64	1.78	2.47	3.05	3.79	3.73	3.36	2.45	1.84
Gas	-	-	-	-	-	-	-	-	-

Source: *IEA/OECD Energy Balances of OECD Countries*

(1) Total Final Consumption (TFC) excludes use in transformation and energy sectors.

* Please refer to notes in *Principles and Definitions*.

Czech Republic

5. COAL BALANCE*

(Mtce)

	1973	1980	1990	2000	2006	2007	2008e	Average annual percent change 73-90	90-07
Production	54.3 e	57.8	51.9	35.8	34.1	34.0	32.8	-0.3	-2.5
Imports	0.2 e	2.3	2.2	1.5	2.9	3.3	2.9	15.0	2.3
Exports	-3.7 e	-12.0	-10.4	-8.3	-7.8	-7.8	-7.1	6.3	-1.7
Stock changes	-0.0 e	-0.3	1.2	1.8	0.7	0.9	0.8	x	x
Primary supply	**50.8**	**47.7**	**44.9**	**30.8**	**29.9**	**30.4**	**29.4**	**-0.7**	**-2.3**
Statistical difference	**1.8**	**3.3**	**-1.3**	**-0.5**	**-1.1**	**-1.0**	**..**	**x**	**x**
Total transformation	**-24.2 e**	**-23.7 e**	**-23.4 e**	**-23.2 e**	**-22.5 e**	**-24.2 e**	**..**	**-0.2**	**0.2**
Electricity and heat gen.	-11.9 e	-16.7 e	-20.5 e	-20.9	-20.1	-22.0	..	3.3	0.4
Main activity producers (1)	*-11.9 e*	*-16.7 e*	*-17.4 e*	*-18.9*	*-18.2*	*-20.2*	*..*	*2.3*	*0.9*
Autoproducers	-	-	*-3.1 e*	*-2.0*	*-1.9*	*-1.8*	*..*	-	*-3.1*
Gas works	-2.3 e	-2.6 e	-1.2	-0.6	-0.8	-0.7	..	-3.9	-3.3
Coal transformation(2)	-10.0 e	-4.3 e	-1.8 e	-1.7 e	-1.5 e	-1.6 e	..	-9.7	-0.5
BKB plants	*0.0 e*	*0.0*	*-0.0*	*0.0*	*-0.1*	*-0.0*	*..*	-	*64.1*
Blast furnaces	*-2.6 e*	*-2.6 e*	*-1.7 e*	*-1.3 e*	*-1.4 e*	*-1.5 e*	*..*	*-2.3*	*-0.9*
Coke ovens	*-7.4 e*	*-1.8*	*-0.0*	*-0.4*	*-0.1*	*-0.1*	*..*	*-26.5*	*7.2*
Patent fuel plants	-	-	-	-	-	-	*..*	-	-
Other transformation(3)	-	-	-	-	-	-	..	-	-
Own use	**-1.0 e**	**-1.0 e**	**-1.1 e**	**-0.5**	**-0.6**	**-0.6**	**..**	**0.8**	**-3.5**
Distribution losses	**-0.1 e**	**-0.1 e**	**-0.1 e**	**-0.0**	**-0.2**	**-0.2**	**..**	**x**	**x**
Final consumption(4)	**27.5**	**26.3**	**19.1**	**6.7**	**5.5**	**4.3**	**..**	**-2.1**	**-8.4**
Industry sector(5)	16.3	16.7	10.0	4.7	3.5	3.1	..	-2.9	-6.7
Iron and steel	*3.4 e*	*3.9 e*	*5.0 e*	*2.0 e*	*1.7 e*	*1.6 e*	*..*	*2.3*	*-6.4*
Chemical	*1.1 e*	*0.9 e*	*0.5*	*1.2*	*1.2*	*0.8*	*..*	*-4.6*	*2.7*
Non-metallic minerals	*0.5 e*	*0.7 e*	*0.5*	*0.3*	*0.2*	*0.3*	*..*	*-0.3*	*-3.0*
Paper, pulp and print	*1.3 e*	*1.1 e*	*0.3*	*0.1*	*0.1*	*0.1*	*..*	*-7.7*	*-6.4*
Transport sector(6)	0.2	0.1	-	-	0.0	0.0	..	-	-
Other sectors(7)	11.0	9.5	9.2	1.9	1.4	0.8	..	-1.1	-13.5
Comm. and pub. services	*0.4 e*	*0.3 e*	*1.9 e*	*0.3*	*0.2*	*0.1*	*..*	*9.5*	*-17.8*
Residential	*9.3 e*	*8.0 e*	*6.7 e*	*1.1*	*1.2*	*0.7*	*..*	*-1.9*	*-12.5*
Non-energy use	-	-	-	-	0.5	0.5	..	-	-

Source: *IEA/OECD Energy Balances of OECD Countries*

(1) Main activity electricity and heat generation includes district heating.

(2) Coal transformation refers to the transformation of coal and peat to secondary and tertiary products (mainly coke, briquettes, coke oven gas and blast furnace gas).

(3) Other transformation includes liquefaction and non-specified transformation.

(4) Final Consumption includes non-energy use and energy use (industry, transport and other sectors).

(5) Please refer to notes in *Principles and Definitions* for detailed explanation.

(6) Transport sector includes rail and inland waterways.

(7) Other sectors includes commercial and public services, agriculture, and residential.

* "Coal" refers to all types of coal, primary (anthracite, coking coal, other bituminous coal, sub-bituminous coal, lignite/brown coal, peat) and derived fuels (including patent fuel, BKB/peat briquettes, coke oven coke, gas coke, coal tar, coke oven gas, gas works gas, blast furnace gas and oxygen steel furnace gas). Quantities have been converted to Mtce using calorific values reported by the respective countries. Please refer to notes in *Principles and Definitions*.

Czech Republic

6. USE OF COAL FOR SELECTED END-USES*

(million tonnes)

	1978	1980	1990	2000	2005	2006	2007	Average annual percent change 78-90	Average annual percent change 90-07
Steam coal	**9.81**	**11.77**	**-**	**-**	**0.04**	**0.05**	**0.04**	**-**	**-**
Total electricity and heat	-	-	-	-	-	-	-	-	-
Main activity producers	-	-	-	-	-	-	-	-	-
Autoproducers	-	-	-	-	-	-	-	-	-
Patent fuel/BKB plants	-	-	-	-	-	-	-	-	-
Coke ovens	- e	- e	- e	-	-	-	-	-	-
Blast furnace inputs	-	-	-	-	-	-	-	-	-
Gas manufacture	-	-	-	-	-	-	-	-	-
Industry sector	7.85	9.41	-	-	0.04	0.05	0.04	-	-
Iron and steel	*1.10*	*1.32*	*- e*	-	*0.04*	*0.05*	*0.04*	-	-
Chemical	*0.05*	*0.05*	-	-	-	-	-	-	-
Non-metallic minerals	*0.60*	*0.77*	-	-	-	-	-	-	-
Paper, pulp and print	*0.04*	*0.04*	-	-	-	-	-	-	-
Other industry	*6.05*	*7.23*	*- e*	-	-	-	-	-	-
Res, comm & pub serv[1]	1.95	2.34	-	-	-	-	-	-	-
Non-energy use	-	-	-	-	-	-	-	-	-
Coking coal	**12.57**	**12.17**	**9.94**	**4.97**	**4.33**	**4.33**	**4.10**	**-1.93**	**-5.08**
Total electricity and heat	-	-	-	-	-	-	-	-	-
Main activity producers	-	-	-	-	-	-	-	-	-
Autoproducers	-	-	-	-	-	-	-	-	-
Patent fuel/BKB plants	-	-	-	-	-	-	-	-	-
Coke ovens	12.57 e	12.17 e	8.54 e	4.56	4.34	4.33	4.11	-3.17	-4.21
Blast furnace inputs	-	-	-	-	-	-	-	-	-
Gas manufacture	-	-	-	-	-	-	-	-	-
Industry sector	-	-	1.40	0.04	-	-	-	-	-
Iron and steel	-	-	*1.40 e*	*0.04*	-	-	-	-	-
Chemical	-	-	-	*0.00*	-	-	-	-	-
Non-metallic minerals	-	-	-	-	-	-	-	-	-
Paper, pulp and print	-	-	-	-	-	-	-	-	-
Other industry	-	-	*- e*	-	-	-	-	-	-
Res, comm & pub serv[1]	-	-	-	-	-	-	-	-	-
Non-energy use	-	-	-	-	-	-	-	-	-
Brown coal/lignite	**81.32**	**79.82**	**81.89**	**56.12**	**52.47**	**53.48**	**54.20**	**0.06**	**-2.40**
Total electricity and heat	37.97	40.18	48.65	45.05	44.22	43.97	46.96	2.09	-0.21
Main activity producers	*37.97*	*40.18*	*42.32*	*41.16*	*40.36*	*40.03*	*43.72*	*0.91*	*0.19*
Autoproducers	-	-	*6.33*	*3.90*	*3.86*	*3.94*	*3.24*	-	*-3.85*
Patent fuel/BKB plants	1.96	2.00	1.94	0.44	0.54	0.62	0.48	-0.10	-7.93
Coke ovens	-	-	-	-	-	-	-	-	-
Gas manufacture	6.35	6.14	2.69	1.35	1.49	1.51	1.49	-6.90	-3.43
Industry sector	16.58	14.95	10.17	6.40	4.60	4.51	3.34	-3.99	-6.34
Iron and steel	*0.54*	*0.49*	*1.20*	*0.99*	*0.88*	*0.84*	*0.79*	*6.88*	*-2.47*
Chemical	*2.49*	*2.24*	*1.24*	*2.56*	*2.80*	*2.81*	*1.68*	*-5.67*	*1.82*
Non-metallic minerals	*0.36*	*0.32*	*0.95*	*0.45*	*0.24*	*0.27*	*0.30*	*8.49*	*-6.52*
Paper, pulp and print	*2.95*	*2.66*	*0.82*	*0.25*	*0.23*	*0.21*	*0.24*	*-10.13*	*-6.89*
Other industry	*10.24*	*9.24*	*5.97*	*2.15*	*0.45*	*0.38*	*0.33*	*-4.40*	*-15.69*
Res, comm & pub serv[1]	17.36	15.63	17.09	2.24	1.46	2.24	1.34	-0.13	-13.93
Non-energy use	-	-	-	-	-	-	-	-	-

Source: *IEA/OECD Energy Statistics of OECD Countries*

(1) Residential, commercial and public services.

* Please refer to notes in *Principles and Definitions*.

Czech Republic

7. FUEL PRICES TO END USERS*

	1978[1]	1980	1990	2000	2004	2005	2006	2007	2008
				(US dollars / tce)					
For electricity generation									
Steam coal	10.29	11.54	20.49	21.88	c	c	c	c	c
Heavy fuel oil	52.02	52.49	111.20	81.86	122.44	152.18	212.36	209.64	321.95
Natural gas	..	..	94.07	113.74	..	..	..	..	..
For industry									
Steam coal	..	..	24.44	26.96	c	c	c	c	c
Coking coal	..	..	52.62	50.73	c	c	c	c	c
High sulphur fuel oil	52.02	52.49	111.20	81.86	122.44	152.18	212.36	209.64	321.95
Low sulphur fuel oil	..	..	..	..	141.07	180.93	243.77	248.34	377.42
Natural gas	..	..	94.07	114.82	169.12	227.47	312.87	304.65	477.65
				(Czech crowns / unit)[2]					
For electricity generation									
Steam coal	54	60	134	308	c	c	c	c	c
Heavy fuel oil	1020	1020	2718	4307	4284	4964	6531	5792	7487
Natural gas	..	..	2171	5650	..	..	..	..	..
For industry									
Steam coal	..	..	235	558	c	c	c	c	c
Coking coal	..	..	877	1820	c	c	c	c	c
High sulphur fuel oil	1020	1020	2718	4307	4284	4964	6531	5792	7487
Low sulphur fuel oil	..	..	..	..	4936	5902	7497	6861	8777
Natural gas	..	..	2171	5704	5587	7006	9085	7947	10488

Source: *IEA/OECD Energy Prices & Taxes*

(1) Earliest year for which split by coal type is available.

(2) For steam coal, coking coal and heavy fuel oil per metric tonne; for natural gas per 10^7 kilocalories GCV.

* Please refer to notes in *Principles and Definitions*.

8. COAL TRADE BY TYPE OF COAL*

(Mtce)

	1973	1980	1990	2000	2004	2005	2006	2007	2008e
Total imports	**0.21 e**	**2.33**	**2.25**	**1.48**	**2.57**	**1.91**	**2.88**	**3.29**	**2.89**
Hard coal	-	2.11	-	0.22	0.51	0.47	0.97	1.10	1.09
Coking coal	*..*	*-*	*-*	*0.22*	*0.46*	*0.42*	*0.90*	*1.05*	*1.05*
Steam coal	*..*	*2.11*	*-*	*-*	*0.06*	*0.05*	*0.06*	*0.05*	*0.04*
Brown coal / lignite	-	0.01	2.09	0.68	0.89	0.62	0.92	1.13	0.81
Peat	-	-	-	-	-	-	-	-	-
Coal products[1]	0.21 e	0.21	0.15	0.59	1.17	0.83	1.00	1.06	0.99
Total exports	**3.65 e**	**12.02**	**10.38**	**8.26**	**6.72**	**6.60**	**7.75**	**7.81**	**7.14**
Hard coal	-	5.41	4.22	3.42	3.18	2.99	4.17	4.59	2.99
Coking coal	*..*	*4.87*	*4.22*	*3.42*	*3.18*	*2.99*	*4.16*	*4.58*	*2.99*
Steam coal	*..*	*0.54*	*-*	*-*	*0.00*	*0.01*	*0.01*	*0.00*	*0.01*
Brown coal / lignite	-	3.96	4.50	3.81	2.47	2.59	2.46	2.33	3.23
Peat	-	-	-	-	-	-	-	-	-
Coal products[1]	3.65 e	2.65	1.66	1.03	1.06	1.02	1.12	0.88	0.92

Source: *IEA/OECD Energy Balances of OECD Countries, IEA/OECD Energy Statistics of OECD Countries*

(1) Coal products includes products derived from coal, for example: coke, coal tar, briquettes, patent fuels.

* Please refer to notes in *Principles and Definitions*.

Czech Republic

9. HARD COAL IMPORTS BY ORIGIN*

(thousand tonnes)

	1978[1]	1980	1990	2000	2004	2005	2006	2007	2008e
Hard Coal	**274 e**	**2302 e**	**-**	**217**	**529**	**535**	**1037**	**1109**	**1102**
Coking Coal	**-**	**-**	**-**	**217**	**477**	**492**	**976**	**1064**	**1063**
Australia	-	-	-	-	-	-	-	-	19
Canada	-	-	-	-	-	-	-	-	-
Czech Republic	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	1
Poland	-	-	-	217	473	492	976	1024	903
United Kingdom	-	-	-	-	-	-	-	-	-
United States	-	-	-	-	-	-	-	40	124
Other OECD	-	-	-	-	-	-	-	-	8
China, People's Rep.	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-
South Africa	-	-	-	-	-	-	-	-	-
Former USSR[2]	-	-	-	-	-	-	-	-	-
Russia[3]	-	-	-	-	*4*	-	-	-	*8*
Other Former USSR[3]	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-
Non-specified/other	-	-	-	-	-	-	-	-	-
Steam coal	**274 e**	**2302 e**	**-**	**-**	**52**	**43**	**61**	**45**	**39**
Australia	-	-	-	-	-	-	-	-	-
Canada	-	-	-	-	-	-	-	-	-
Czech Republic	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	1	-
Poland	274 e	2302 e	-	-	1	7	11	14	3
United Kingdom	-	-	-	-	-	-	-	-	-
United States	-	-	-	-	-	-	-	-	-
Other OECD	-	-	-	-	1	1	1	1	2
China, People's Rep.	-	-	-	-	-	-	3	3	-
Colombia	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-
South Africa	-	-	-	-	-	-	-	-	-
Former USSR[2]	-	-	-	-	-	-	-	-	-
Russia[3]	-	-	-	-	*50*	*32*	*46*	*26*	*29*
Other Former USSR[3]	-	-	-	-	-	*3*	-	-	*5*
Venezuela	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-
Non-specified/other	-	-	-	-	-	-	-	-	-

Source: IEA/OECD Coal Statistics

(1) Earliest year for which split by coal type is available.

(2) If no detail.

(3) Data for former republics are not available separately for some OECD member countries.

* Please refer to notes in *Principles and Definitions*.

Czech Republic

10. COKING COAL EXPORTS BY DESTINATION*

(thousand tonnes)

	1978[1]	1980	1990	2000	2004	2005	2006	2007	2008e
Total Exports	**5934 e**	**5200**	**4504**	**3427**	**3272**	**3210**	**4419**	**4781**	**3115**
Exports to:									
Total OECD	**5934 e**	**5200 e**	**4504 e**	**3427**	**3271**	**3103**	**4112**	**4633**	**3115**
Australia	-	-	-	-	-	-	-	-	-
Austria	600 e	591 e	785 e	1244	1084	994	910	850	842
Belgium	59 e	25 e	-	-	-	-	-	-	-
Canada	-	-	-	-	-	-	-	-	-
Czech Republic	-	-	-	-	-	-	-	-	-
Denmark	-	2 e	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-
Germany	-	-	28 e	-	-	-	-	-	-
Greece	-	-	-	-	-	-	-	-	-
Hungary	-	-	-	744	304	230	450	463	235
Iceland	-	-	-	-	-	-	-	-	-
Ireland	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-
Japan	-	-	-	-	-	-	-	-	-
Korea	-	-	-	-	-	-	-	-	-
Luxembourg	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-
Netherlands	69 e	114 e	10 e	-	-	-	-	-	-
New Zealand	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-
Poland	-	-	-	538	572	592	1367	1863	565
Portugal	-	-	-	-	-	-	-	-	-
Slovak Republic	5126 e	4345 e	3681 e	901	1311	1287	1385	1457	1473
Spain	-	-	-	-	-	-	-	-	-
Sweden	80 e	123 e	-	-	-	-	-	-	-
Switzerland	-	-	-	-	-	-	-	-	-
Turkey	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-
United States	-	-	-	-	-	-	-	-	-
Total Non-OECD	**-**	**-**	**-**	**-**	**1**	**107**	**307**	**148**	**-**
Brazil	-	-	-	-	-	-	-	-	-
Chinese Taipei	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-
Hong Kong, China	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-
Israel	-	-	-	-	-	-	-	-	-
Romania	-	-	-	-	-	-	-	-	-
Oth. Africa & Mid. East	-	-	-	-	-	-	-	-	-
Other Latin America	-	-	-	-	-	-	-	-	-
Other Asia & Oceania	-	-	-	-	-	-	-	-	-
Other Europe and FSU	-	-	-	-	1	107	307	148	-
Non-Specified/Other	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**

Source: IEA/OECD Coal Statistics

(1) Earliest year for which split by coal type is available.

* Please refer to notes in *Principles and Definitions*.

Czech Republic

11. STEAM COAL EXPORTS BY DESTINATION*

(thousand tonnes)

	1978[1]	1980	1990	2000	2004	2005	2006	2007	2008e
Total Exports	**394 e**	**578**	**-**	**-**	**2**	**7**	**8**	**3**	**6**
Exports to:									
Total OECD	**394 e**	**578 e**	**-**	**-**	**2**	**7**	**6**	**3**	**6**
Australia	-	-	-	-	-	-	-	-	-
Austria	-	-	-	-	-	-	-	-	2
Belgium	-	14 e	-	-	-	-	-	-	-
Canada	-	-	-	-	-	-	-	-	-
Czech Republic	-	-	-	-	-	-	-	-	-
Denmark	6 e	4 e	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-
Germany	100 e	146 e	-	-	-	2	2	1	-
Greece	1 e	1 e	-	-	-	-	-	-	-
Hungary	-	-	-	-	-	-	-	-	-
Iceland	-	-	-	-	-	-	-	-	-
Ireland	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-
Japan	-	-	-	-	-	-	-	-	-
Korea	-	-	-	-	-	-	-	-	-
Luxembourg	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-
Netherlands	36 e	68 e	-	-	-	-	-	-	-
New Zealand	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-
Poland	-	-	-	-	2	-	2	2	-
Portugal	-	-	-	-	-	-	-	-	-
Slovak Republic	237 e	322 e	-	-	-	5	2	-	4
Spain	-	-	-	-	-	-	-	-	-
Sweden	6 e	11 e	-	-	-	-	-	-	-
Switzerland	8 e	12 e	-	-	-	-	-	-	-
Turkey	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-
United States	-	-	-	-	-	-	-	-	-
Total Non-OECD	**-**	**-**	**-**	**-**	**-**	**-**	**2**	**-**	**-**
Brazil	-	-	-	-	-	-	-	-	-
Chinese Taipei	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-
Hong Kong, China	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-
Israel	-	-	-	-	-	-	-	-	-
Romania	-	-	-	-	-	-	2	-	-
Oth. Africa & Mid. East	-	-	-	-	-	-	-	-	-
Other Latin America	-	-	-	-	-	-	-	-	-
Other Asia & Oceania	-	-	-	-	-	-	-	-	-
Other Europe and FSU	-	-	-	-	-	-	-	-	-
Non-Specified/Other	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**

Source: IEA/OECD Coal Statistics

(1) Earliest year for which split by coal type is available.

* Please refer to notes in *Principles and Definitions*.

Denmark*

Chart 1: TPES by fuel (Mtce)

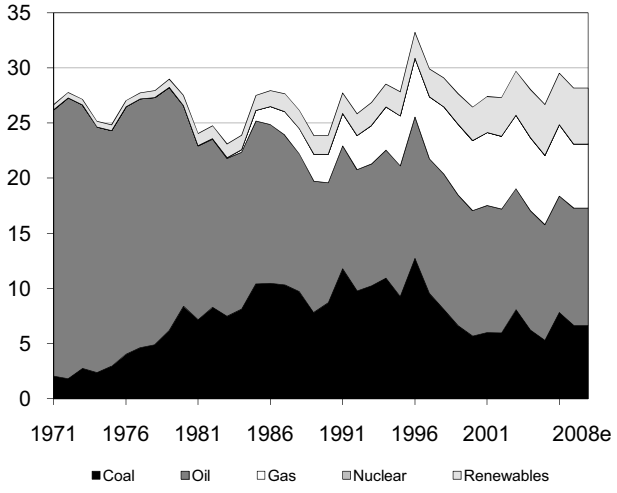


Chart 2: Coal supply indicators (1971 = 100)

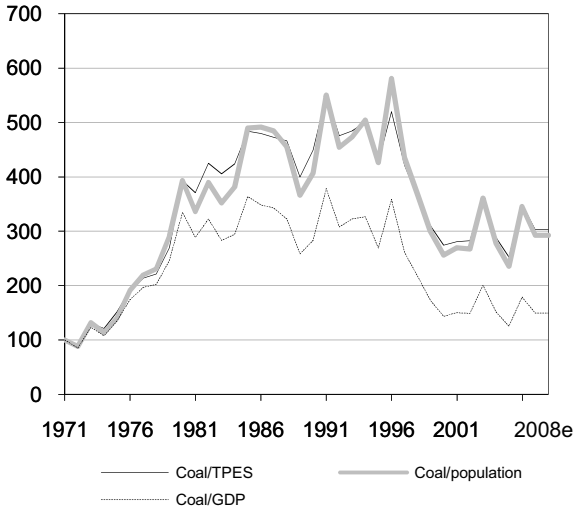


Chart 3: Primary coal supply (Mtce)

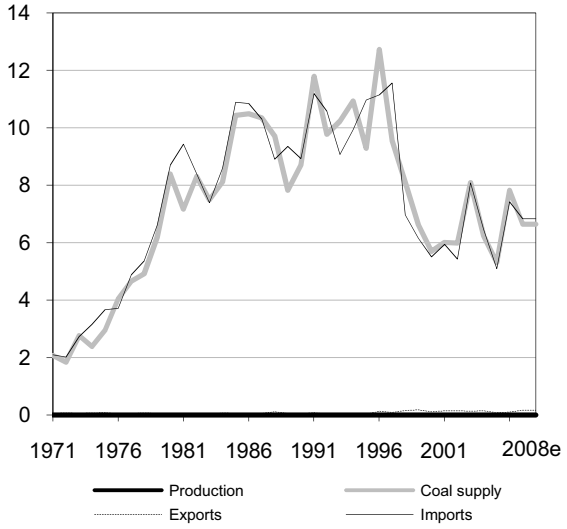


Chart 4: Coal consumption (Mtce)

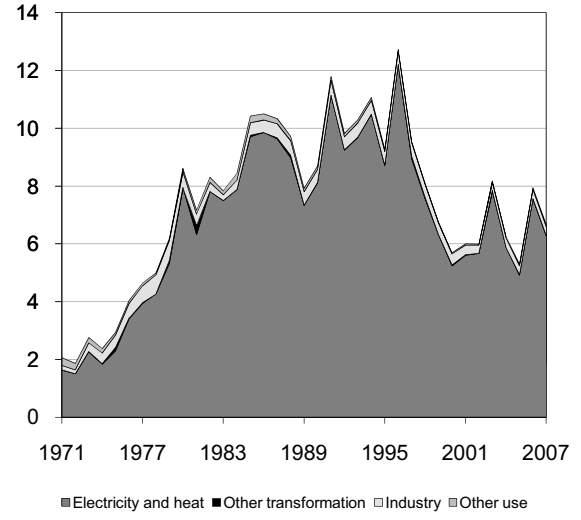


Chart 5: Electricity generation by fuel (TWh)

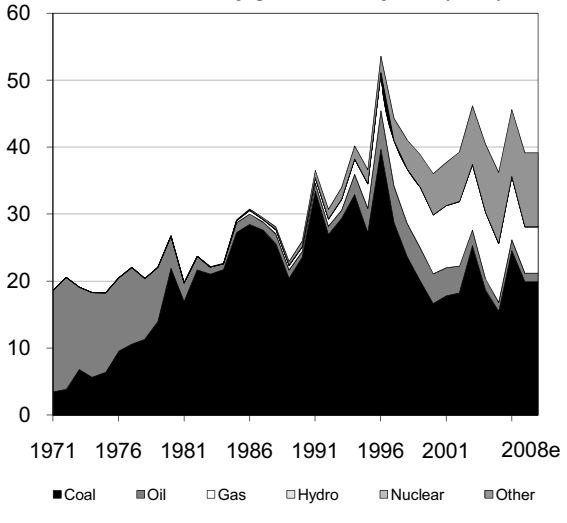
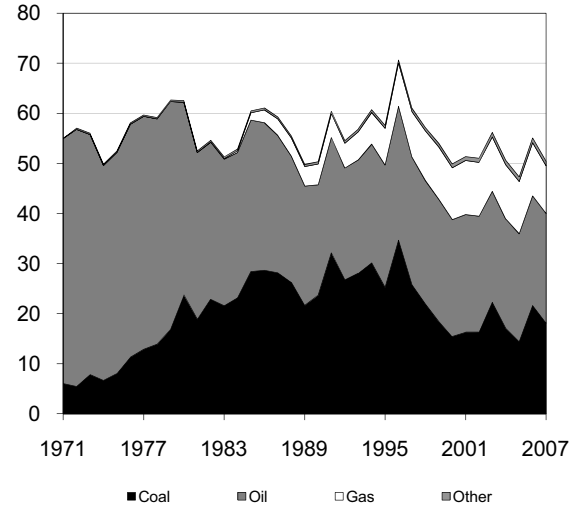


Chart 6: CO_2 emissions by fuel (Mt CO_2)



*Please refer to notes in *Principles and Definitions* . Peat is included in coal for all charts.

Denmark

1. TOTAL PRIMARY ENERGY SUPPLY (TPES) BY FUEL*

	1973	1980	1990	2000	2006	2007	2008e	Average annual percent change 73-90	90-07
TPES (Mtce)	**27.13**	**27.34**	**24.77**	**26.55**	**28.69**	**28.07**	**27.39**	**-0.53**	**0.74**
Coal and peat	2.76	8.39	8.70	5.69	7.82	6.65	5.95	6.99	-1.57
Oil	23.89	18.17	10.90	11.38	10.56	10.65	10.37	-4.51	-0.13
Gas	0.00	0.00	2.60	6.35	6.48	5.80	5.82	65.00	4.84
Comb. renew/waste	0.51	0.92	1.63	2.49	3.88	4.16	4.18	7.11	5.68
Nuclear	-	-	-	-	-	-	-	-	-
Hydro	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.91	-
Geothermal	-	-	0.00	0.00	0.02	0.02	0.02	-	11.11
Solar, wind, tide	-	0.00	0.08	0.53	0.77	0.90	0.87	-	15.42
Net electricity trade(1)	-0.03	-0.15	0.87	0.08	-0.85	-0.12	0.18	-	-
Heat(2)	-	-	0.00	0.00	0.01	0.01	0.01	-	1.25

Source: *IEA/OECD Energy Balances of OECD Countries*

(1) Net trade between OECD and non-OECD countries.

(2) Ambient heat from heat pumps used in the transformation sector.

2. ENERGY SUPPLY, GDP AND POPULATION*

	1973	1980	1990	2000	2006	2007	2008e	Average annual percent change 73-90	90-07
GDP (2000 bil. US$)	90	101	124	160	176	179	177	1.90	2.19
TPES/GDP(1)	0.30	0.27	0.20	0.17	0.16	0.16	0.16	-2.39	-1.42
Population (millions)	5.0	5.1	5.1	5.3	5.4	5.5	5.5	0.14	0.36
TPES/population(1)	5.40	5.33	4.82	4.97	5.28	5.14	5.01	-0.67	0.38
TPES/GDP(2)	181.9	163.2	120.6	100.0	98.2	94.6	93.5	-2.39	-1.42
Coal and peat supply/GDP(2)	86.2	233.7	197.4	100.0	124.9	104.4	94.7	5.00	-3.68
Elec. consumption/GDP(2)	88.3	105.6	112.9	100.0	95.1	92.9	..	1.46	-1.14
Elec. generation (TWh)	19	27	26	36	46	39	36	1.82	2.44
Industrial production(2)	..	56.6	74.5	100.0	106.9	105.9	105.4	-	2.09

Source: *IEA/OECD Energy Balances of OECD Countries* , *OECD Main Economic Indicators*

(1) TPES/GDP in units of tce/2000 thousand US$, TPES/population in units of tce/capita.

(2) As index, 2000 = 100

3. COAL AND PEAT PRODUCTION BY TYPE*

	1978(1)	1980	1990	2000	2006	2007	2008e	Average annual percent change 78-90	90-07
Mtce:									
Coking coal	-	-	-	-	-	-	-	-	-
Steam coal	-	-	-	-	-	-	-	-	-
Brown coal	-	-	-	-	-	-	-	-	-
Peat	-	-	-	-	-	-	-	-	-
Mt:									
Coking coal	-	-	-	-	-	-	-	-	-
Steam coal	-	-	-	-	-	-	-	-	-
Brown coal	-	-	-	-	-	-	-	-	-
Peat	-	-	-	-	-	-	-	-	-

Source: *IEA/OECD Energy Balances of OECD Countries, IEA/OECD Energy Statistics of OECD Countries*

(1) Earliest year for which split by coal type is available.

* Please refer to notes in *Principles and Definitions* .

Denmark

4. FINAL CONSUMPTION OF ENERGY BY FUEL*

(Mtce)

	1973	1980	1990	2000	2005	2006	2007	Average annual percent change 73-90	90-07
TFC[1]	**21.87**	**21.05**	**18.82**	**20.26**	**21.22**	**21.49**	**21.61**	**-0.88**	**0.82**
Coal and peat	0.48	0.66	0.57	0.42	0.36	0.38	0.37	0.99	-2.46
Oil	19.02	16.17	9.80	9.32	9.50	9.59	9.72	-3.83	-0.05
Gas	0.17	0.17	1.65	2.38	2.44	2.43	2.39	14.36	2.19
Comb. renew/wastes	0.23	0.55	0.81	0.93	1.33	1.47	1.70	7.65	4.48
Geothermal	-	-	-	-	-	-	-	-	-
Solar, wind, tide	-	0.00	0.00	0.01	0.01	0.01	0.01	-	9.13
Electricity	1.98	2.66	3.48	3.99	4.11	4.17	4.14	3.39	1.02
Heat	-	0.84	2.51	3.22	3.46	3.44	3.28	-	1.58
of which:									
Total industry	**4.79**	**4.51**	**3.85**	**4.19**	**4.09**	**4.19**	**4.16**	**-1.28**	**0.46**
Coal and peat	0.30	0.55	0.46	0.38	0.31	0.32	0.31	2.49	-2.31
Oil	3.81	3.02	1.31	1.08	1.10	1.17	1.14	-6.07	-0.81
Gas	0.02	0.01	0.77	1.11	1.02	1.02	1.07	22.90	1.95
Comb. renew/wastes	0.08	0.11	0.16	0.16	0.17	0.17	0.18	4.01	0.56
Geothermal	-	-	-	-	-	-	-	-	-
Solar, wind, tide	-	-	-	-	-	-	-	-	-
Electricity	0.57	0.71	1.04	1.23	1.27	1.28	1.25	3.64	1.12
Heat	-	0.11	0.11	0.23	0.23	0.23	0.21	-	4.03
Total transport	**3.86**	**4.32**	**4.93**	**5.69**	**6.29**	**6.38**	**6.67**	**1.44**	**1.80**
Coal and peat	0.00	-	-	-	-	-	-	-	-
Oil	3.85	4.31	4.90	5.65	6.25	6.33	6.61	1.43	1.78
Gas	-	-	-	-	-	-	-	-	-
Comb. renew/wastes	-	-	-	-	-	0.01	0.01	-	-
Electricity	0.01	0.02	0.03	0.04	0.05	0.05	0.04	3.87	3.33
Residential	**9.90**	**7.97**	**5.71**	**5.94**	**6.35**	**6.33**	**6.30**	**-3.18**	**0.58**
Coal and peat	0.18	0.10	0.02	0.00	-	-	-	-11.63	-
Oil	8.66	5.96	1.81	1.10	0.89	0.80	0.73	-8.79	-5.21
Gas	0.13	0.14	0.59	0.94	1.01	0.97	0.91	9.12	2.55
Comb. renew/wastes	0.12	0.35	0.48	0.61	1.00	1.10	1.33	8.64	6.19
Geothermal	-	-	-	-	-	-	-	-	-
Solar, wind, tide	-	0.00	0.00	0.01	0.01	0.01	0.01	-	9.10
Electricity	0.81	0.91	1.19	1.25	1.28	1.30	1.27	2.27	0.40
Heat	-	0.49	1.62	2.03	2.16	2.15	2.05	-	1.40
Comm & public services	**0.46**	**1.75**	**2.46**	**2.61**	**2.83**	**2.88**	**2.83**	**10.38**	**0.83**
Coal and peat	-	-	0.00	-	-	-	-	-	-
Oil	-	0.72	0.46	0.19	0.14	0.12	0.11	-	-8.30
Gas	0.01	0.01	0.20	0.23	0.31	0.35	0.33	18.35	2.91
Comb. renew/waste	0.02	0.02	0.04	0.09	0.09	0.11	0.10	5.04	4.76
Geothermal	-	-	-	-	-	-	-	-	-
Solar, wind, tide	-	-	0.00	0.00	0.00	0.00	0.00	-	9.22
Electricity	0.43	0.75	1.03	1.22	1.28	1.31	1.34	5.28	1.58
Heat	-	0.24	0.72	0.90	1.00	0.99	0.95	-	1.63
Non-energy use	**1.02**	**0.59**	**0.44**	**0.43**	**0.40**	**0.42**	**0.45**	**-4.86**	**0.17**
Coal and peat	-	-	-	-	-	-	-	-	-
Oil	1.02	0.59	0.44	0.43	0.40	0.42	0.45	-4.86	0.17
Gas	-	-	-	-	-	-	-	-	-

Source: *IEA/OECD Energy Balances of OECD Countries*

(1) Total Final Consumption (TFC) excludes use in transformation and energy sectors.

* Please refer to notes in *Principles and Definitions*.

Denmark

5. COAL BALANCE*

(Mtce)

	1973	1980	1990	2000	2006	2007	2008e	Average annual percent change 73-90	90-07
Production	-	-	-	-	-	-	-	-	-
Imports	2.7	8.7	8.9	5.5	7.4	6.8	6.4	7.2	-1.6
Exports	-0.1	-0.1	-0.0	-0.1	-0.1	-0.2	-0.1	-1.0	7.3
Stock changes	0.1	-0.3	-0.2	0.3	0.5	-0.0	-0.3	x	x
Primary supply	**2.8**	**8.4**	**8.7**	**5.7**	**7.8**	**6.6**	**5.9**	**7.0**	**-1.6**
Statistical difference	**0.0**	**0.2**	**-0.0**	**-0.0**	**0.1**	**0.0**	**..**	**x**	**x**
Total transformation	**-2.3**	**-8.0**	**-8.1**	**-5.2**	**-7.6**	**-6.3**	**..**	**7.7**	**-1.5**
Electricity and heat gen.	-2.3	-8.0	-8.1	-5.2	-7.6	-6.3	..	7.8	-1.5
Main activity producers (1)	*-2.3*	*-7.9*	*-8.1*	*-5.2*	*-7.6*	*-6.3*	*..*	*7.7*	*-1.5*
Autoproducers	-	*-0.1*	*-0.1*	*-0.0*	*-0.0*	*-0.0*	*..*	-	*-16.9*
Gas works	-0.0	-0.0	-	-	-	-	..	-	-
Coal transformation(2)	-	-	-	-	-	-	..	-	-
BKB plants	-	-	-	-	-	-	..	-	-
Blast furnaces	-	-	-	-	-	-	..	-	-
Coke ovens	-	-	-	-	-	-	..	-	-
Patent fuel plants	-	-	-	-	-	-	..	-	-
Other transformation(3)	-	-	-	-	-	-	..	-	-
Own use	**-**	**-0.0**	**-**	**-**	**-**	**-**	**..**	**-**	**-**
Distribution losses	**-**	**-**	**-**	**-**	**-**	**-**	**..**	**x**	**x**
Final consumption(4)	**0.5**	**0.7**	**0.6**	**0.4**	**0.4**	**0.4**	**..**	**1.0**	**-2.5**
Industry sector(5)	0.3	0.5	0.5	0.4	0.3	0.3	..	2.5	-2.3
Iron and steel	*0.0*	*0.0*	*0.0*	*0.0*	-	-	*..*	*-14.6*	-
Chemical	-	-	*0.0*	*0.0*	*0.0*	*0.0*	*..*	-	*11.9*
Non-metallic minerals	*0.1*	*0.4*	*0.2*	*0.2*	*0.2*	*0.2*	*..*	*2.8*	*0.4*
Paper, pulp and print	*0.0*	*0.1*	*0.0*	-	-	-	*..*	*18.4*	-
Transport sector(6)	0.0	-	-	-	-	-	..	-	-
Other sectors(7)	0.2	0.1	0.1	0.0	0.1	0.1	..	-2.7	-3.1
Comm. and pub. services	-	-	*0.0*	-	-	-	*..*	-	-
Residential	*0.2*	*0.1*	*0.0*	*0.0*	-	-	*..*	*-11.6*	-
Non-energy use	-	-	-	-	-	-	..	-	-

Source: *IEA/OECD Energy Balances of OECD Countries*

(1) Main activity electricity and heat generation includes district heating.

(2) Coal transformation refers to the transformation of coal and peat to secondary and tertiary products (mainly coke, briquettes, coke oven gas and blast furnace gas).

(3) Other transformation includes liquefaction and non-specified transformation.

(4) Final Consumption includes non-energy use and energy use (industry, transport and other sectors).

(5) Please refer to notes in *Principles and Definitions* for detailed explanation.

(6) Transport sector includes rail and inland waterways.

(7) Other sectors includes commercial and public services, agriculture, and residential.

* "Coal" refers to all types of coal, primary (anthracite, coking coal, other bituminous coal, sub-bituminous coal, lignite/brown coal, peat) and derived fuels (including patent fuel, BKB/peat briquettes, coke oven coke, gas coke, coal tar, coke oven gas, gas works gas, blast furnace gas and oxygen steel furnace gas). Quantities have been converted to Mtce using calorific values reported by the respective countries. Please refer to notes in *Principles and Definitions*.

Denmark

6. USE OF COAL FOR SELECTED END-USES*

(million tonnes)

	1978	1980	1990	2000	2005	2006	2007	Average annual percent change 78-90	90-07
Steam coal	**5.65**	**9.66**	**9.99**	**6.64**	**6.29**	**9.17**	**7.91**	**4.86**	**-1.37**
Total electricity and heat	4.99	9.28	9.40	6.19	5.91	8.94	7.55	5.43	-1.29
Main activity producers	*4.93*	*9.23*	*9.34*	*6.18*	*5.90*	*8.94*	*7.54*	*5.47*	*-1.25*
Autoproducers	*0.06*	*0.06*	*0.06*	*0.02*	*0.01*	*0.00*	*0.00*	*0.55*	*-16.40*
Patent fuel/BKB plants	-	-	-	-	-	-	-	-	-
Coke ovens	-	-	-	-	-	-	-	-	-
Blast furnace inputs	-	-	-	-	-	-	-	-	-
Gas manufacture	0.09	0.09	-	-	-	-	-	-	-
Industry sector	0.69	0.54	0.47	0.38	0.30	0.31	0.30	-3.18	-2.64
Iron and steel	-	-	-	-	-	-	-	-	-
Chemical	-	-	*0.00*	*0.02*	*0.02*	*0.02*	*0.02*	-	*11.81*
Non-metallic minerals	*0.55*	*0.36*	*0.20*	*0.23*	*0.21*	*0.21*	*0.21*	*-8.07*	*0.23*
Paper, pulp and print	*0.06*	*0.07*	*0.05*	-	-	-	-	*-1.35*	-
Other industry	*0.09*	*0.11*	*0.22*	*0.13*	*0.07*	*0.08*	*0.07*	*7.85*	*-6.31*
Res, comm & pub serv[1]	0.01	0.02	0.03	0.00	-	-	-	5.95	-
Non-energy use	-	-	-	-	-	-	-	-	-
Coking coal	**-**	**0.01**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
Total electricity and heat	-	-	-	-	-	-	-	-	-
Main activity producers	-	-	-	-	-	-	-	-	-
Autoproducers	-	-	-	-	-	-	-	-	-
Patent fuel/BKB plants	-	-	-	-	-	-	-	-	-
Coke ovens	-	-	-	-	-	-	-	-	-
Blast furnace inputs	-	-	-	-	-	-	-	-	-
Gas manufacture	-	-	-	-	-	-	-	-	-
Industry sector	-	0.01	-	-	-	-	-	-	-
Iron and steel	-	-	-	-	-	-	-	-	-
Chemical	-	-	-	-	-	-	-	-	-
Non-metallic minerals	-	*0.01*	-	-	-	-	-	-	-
Paper, pulp and print	-	-	-	-	-	-	-	-	-
Other industry	-	-	-	-	-	-	-	-	-
Res, comm & pub serv[1]	-	-	-	-	-	-	-	-	-
Non-energy use	-	-	-	-	-	-	-	-	-
Brown coal/lignite	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
Total electricity and heat	-	-	-	-	-	-	-	-	-
Main activity producers	-	-	-	-	-	-	-	-	-
Autoproducers	-	-	-	-	-	-	-	-	-
Patent fuel/BKB plants	-	-	-	-	-	-	-	-	-
Coke ovens	-	-	-	-	-	-	-	-	-
Gas manufacture	-	-	-	-	-	-	-	-	-
Industry sector	-	-	-	-	-	-	-	-	-
Iron and steel	-	-	-	-	-	-	-	-	-
Chemical	-	-	-	-	-	-	-	-	-
Non-metallic minerals	-	-	-	-	-	-	-	-	-
Paper, pulp and print	-	-	-	-	-	-	-	-	-
Other industry	-	-	-	-	-	-	-	-	-
Res, comm & pub serv[1]	-	-	-	-	-	-	-	-	-
Non-energy use	-	-	-	-	-	-	-	-	-

Source: *IEA/OECD Energy Statistics of OECD Countries*

(1) Residential, commercial and public services.

* Please refer to notes in *Principles and Definitions*.

Denmark

7. FUEL PRICES TO END USERS*

	1978[1]	1980	1990	2000	2004	2005	2006	2007	2008
				(US dollars / tce)					
For electricity generation									
Steam coal	..	55.86	..	..	..	..	..	..	..
Heavy fuel oil	..	118.19	..	..	..	..	..	..	..
Natural gas	c	c	c	c	c	c	c	c	c
For industry									
Steam coal	76.39	95.46	119.94	..	..	..	..	..	..
Coking coal	x	x	x	x	x	x	x	x	x
High sulphur fuel oil	69.50	145.83	..	..	..	..	..	..	..
Low sulphur fuel oil	..	..	108.11	162.96	205.62	280.27	315.42	353.68	453.28
Natural gas	258.29	538.28	c	c	c	c	c	c	c
				(Danish crowns / unit)[2]					
For electricity generation									
Steam coal	..	262	..	..	..	..	..	..	..
Heavy fuel oil	..	918	..	..	..	..	..	..	..
Natural gas	c	c	c	c	c	c	c	c	c
For industry									
Steam coal	421	538	742	..	..	..	..	..	..
Coking coal	x	x	x	x	x	x	x	x	x
High sulphur fuel oil	528	1133	..	..	..	..	..	..	..
Low sulphur fuel oil	..	..	922	1817	1697	2317	2584	2654	3186
Natural gas	1830	3900	c	c	c	c	c	c	c

Source: *IEA/OECD Energy Prices & Taxes*

(1) Earliest year for which split by coal type is available.

(2) For steam coal, coking coal and heavy fuel oil per metric tonne; for natural gas per 10^7 kilocalories GCV.

* Please refer to notes in *Principles and Definitions*.

8. COAL TRADE BY TYPE OF COAL*

(Mtce)

	1973	1980	1990	2000	2004	2005	2006	2007	2008e
Total imports	**2.73**	**8.70**	**8.93**	**5.51**	**6.45**	**5.09**	**7.42**	**6.83**	**6.37**
Hard coal	2.58	8.54	8.88	5.46	6.41	5.05	7.38	6.79	6.33
Coking coal	*..*	*0.01*	-	-	-	-	-	-	-
Steam coal	*..*	*8.54*	*8.88*	*5.46*	*6.41*	*5.05*	*7.38*	*6.79*	*6.33*
Brown coal / lignite	-	-	-	-	-	-	-	-	-
Peat	-	-	-	-	-	-	-	-	-
Coal products[1]	0.14	0.16	0.05	0.05	0.04	0.04	0.04	0.03	0.04
Total exports	**0.06**	**0.06**	**0.05**	**0.10**	**0.13**	**0.08**	**0.09**	**0.16**	**0.14**
Hard coal	-	0.00	0.05	0.10	0.13	0.08	0.09	0.16	0.14
Coking coal	*..*	-	-	-	-	-	-	-	-
Steam coal	*..*	*0.00*	*0.05*	*0.10*	*0.13*	*0.08*	*0.09*	*0.16*	*0.14*
Brown coal / lignite	-	-	-	-	-	-	-	-	-
Peat	-	-	-	-	-	-	-	-	-
Coal products[1]	0.06	0.06	-	0.00	0.00	-	-	-	-

Source: *IEA/OECD Energy Balances of OECD Countries, IEA/OECD Energy Statistics of OECD Countries*

(1) Coal products includes products derived from coal, for example: coke, coal tar, briquettes, patent fuels.

* Please refer to notes in *Principles and Definitions*.

Denmark

9. HARD COAL IMPORTS BY ORIGIN*

(thousand tonnes)

	1978[1]	1980	1990	2000	2004	2005	2006	2007	2008e
Hard Coal	**6110**	**9969**	**10255**	**6416**	**7592**	**6031**	**8688**	**8122**	**7570**
Coking Coal	**-**	**7**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
Australia	-	-	-	-	-	-	-	-	-
Canada	-	-	-	-	-	-	-	-	-
Czech Republic	-	2	-	-	-	-	-	-	-
Germany	-	1	-	-	-	-	-	-	-
Poland	-	1	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-
United States	-	1	-	-	-	-	-	-	-
Other OECD	-	-	-	-	-	-	-	-	-
China, People's Rep.	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-
South Africa	-	-	-	-	-	-	-	-	-
Former USSR[2]	-	2	-	-	-	-	-	-	-
Russia[3]	-	-	-	-	-	-	-	-	-
Other Former USSR[3]	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-
Non-specified/other	-	-	-	-	-	-	-	-	-
Steam coal	**6110**	**9962**	**10255**	**6416**	**7592**	**6031**	**8688**	**8122**	**7570**
Australia	177	436	1127	143	442	129	290	144	-
Canada	307	204	646	-	-	-	-	-	-
Czech Republic	6	4	39	-	-	-	-	-	-
Germany	941	275	52	-	-	-	3	6	10
Poland	3078	3422	972	2311	1092	830	529	357	159
United Kingdom	145	592	592	3	1	-	29	3	11
United States	2	1376	3223	-	188	66	274	6	344
Other OECD	8	44	8	177	329	309	129	324	409
China, People's Rep.	-	-	57	-	275	-	-	-	-
Colombia	-	-	2057	812	1454	1254	1537	2475	1680
Indonesia	-	-	-	-	-	-	631	288	-
South Africa	868	3118	-	1672	1845	1852	3062	2099	2243
Former USSR[2]	528	395	-	-	-	-	-	-	-
Russia[3]	-	-	-	*1295*	*1966*	*1531*	*2040*	*2252*	*2604*
Other Former USSR[3]	-	-	-	-	-	*60*	*164*	*168*	*110*
Venezuela	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	3	-	-	-	-	-
Non-specified/other	50	96	1482	-	-	-	-	-	-

Source: IEA/OECD Coal Statistics

(1) Earliest year for which split by coal type is available.

(2) If no detail.

(3) Data for former republics are not available separately for some OECD member countries.

* Please refer to notes in *Principles and Definitions*.

Denmark

11. STEAM COAL EXPORTS BY DESTINATION*

(thousand tonnes)

	1978[1]	1980	1990	2000	2004	2005	2006	2007	2008e
Total Exports	**-**	**2**	**54**	**123**	**157**	**96**	**110**	**183**	**157**
Exports to:									
Total OECD	**-**	**-**	**54**	**123**	**157**	**96**	**110**	**183**	**157**
Australia	-	-	-	-	-	-	-	-	-
Austria	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-
Canada	-	-	-	-	-	-	-	-	-
Czech Republic	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-
Germany	-	-	9	76	63	-	29	102	129
Greece	-	-	-	-	-	-	-	-	-
Hungary	-	-	-	-	-	-	-	-	-
Iceland	-	-	-	-	-	-	-	-	-
Ireland	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-
Japan	-	-	-	-	-	-	-	-	-
Korea	-	-	-	-	-	-	-	-	-
Luxembourg	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-
New Zealand	-	-	-	-	-	-	-	-	-
Norway	-	-	14	34	93	95	79	81	27
Poland	-	-	-	13	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-
Slovak Republic	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-
Sweden	-	-	31	-	1	1	2	-	1
Switzerland	-	-	-	-	-	-	-	-	-
Turkey	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-
United States	-	-	-	-	-	-	-	-	-
Total Non-OECD	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
Brazil	-	-	-	-	-	-	-	-	-
Chinese Taipei	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-
Hong Kong, China	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-
Israel	-	-	-	-	-	-	-	-	-
Romania	-	-	-	-	-	-	-	-	-
Oth. Africa & Mid. East	-	-	-	-	-	-	-	-	-
Other Latin America	-	-	-	-	-	-	-	-	-
Other Asia & Oceania	-	-	-	-	-	-	-	-	-
Other Europe and FSU	-	-	-	-	-	-	-	-	-
Non-Specified/Other	**-**	**2**	**-**	**-**	**-**	**-**	**-**	**-**	**-**

Source: IEA/OECD Coal Statistics

(1) Earliest year for which split by coal type is available.

* Please refer to notes in *Principles and Definitions*.

Denmark

12. COAL IMPORT VALUES BY ORIGIN*

(average unit value, CIF, US$/tonne)

	1988	1990	1995	2003	2004	2005	2006	2007	2008
Coking coal[1]	**54.71**	**93.62**	**535.51**	**..**	**..**	**625.03**	**..**	**154.99**	**434.34**
Imports from:									
Australia	..	..	..	..	..	..	..	..	..
Canada	..	..	..	..	..	..	..	..	..
Czech Republic	..	..	..	..	..	..	..	..	..
Poland	52.54	..	..	..	..	..	..	..	..
United States	73.01	..	..	..	..	..	..	..	..
China	..	..	..	..	..	..	..	..	..
Colombia	96.23	..	..	..	..	..	..	..	..
South Africa	..	..	..	..	..	..	..	..	..
Former USSR[2]	..	..	..	..	..	..	..	..	..
Steam coal[3]	**37.65**	**46.02**	**38.53**	**50.27**	**56.29**	**61.84**	**59.15**	**75.20**	**113.34**
Imports from:									
Australia	31.92	43.67	35.66	43.58	40.19	56.06	..	67.34	..
Canada	45.64	50.24	39.52	..	..	..	..	..	..
Czech Republic	..	72.83	..	..	..	..	..	..	..
Poland	36.81	45.29	36.22	40.12	52.46	52.10	51.93	89.54	153.20
United States	42.88	46.31	42.57	107.27	59.65	62.81	65.96	..	138.51
China	36.42	43.94	..	74.65	52.10	..	..	..	..
Colombia	34.57	47.11	36.57	58.73	57.11	62.06	59.23	78.38	82.86
South Africa	..	..	39.01	42.83	57.29	67.27	59.65	70.30	136.65
Former USSR[2]	34.71	41.65	40.89	47.01	59.95	59.88	60.51	73.66	109.46

Source: IEA/OECD Coal Statistics

Note: On occasion, shipment of extremely small quantities of high valued coal results in high import costs.

(1) Weighted average of individual countries using import volumes as weights. Prices exclude intra-EU trade.

(2) Former USSR until 1991, Russia starting in 1992.

(3) Bituminous steam coal only. Weighted average of individual countries using volumes as weights. Prices exclude intra-EU trade.

* Please refer to notes in *Principles and Definitions*.

Finland*

Chart 1: TPES by fuel (Mtce)

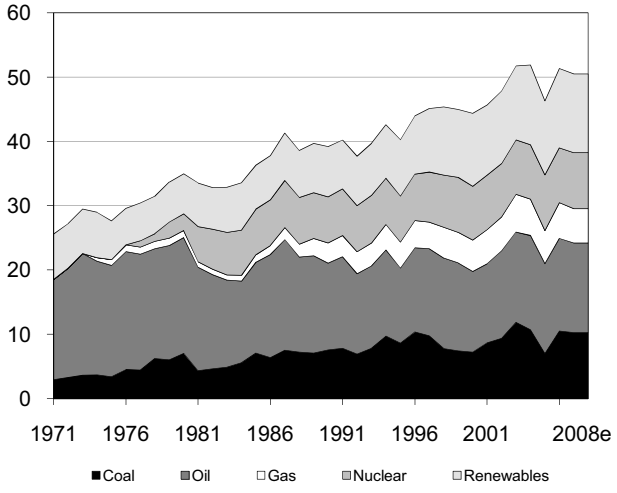


Chart 2: Coal supply indicators (1971 = 100)

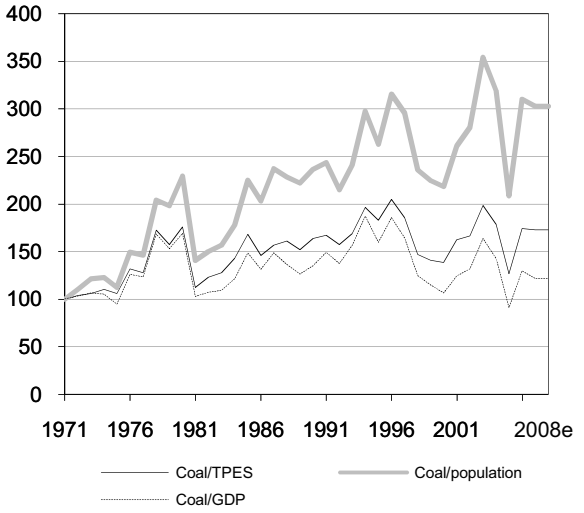


Chart 3: Primary coal supply (Mtce)

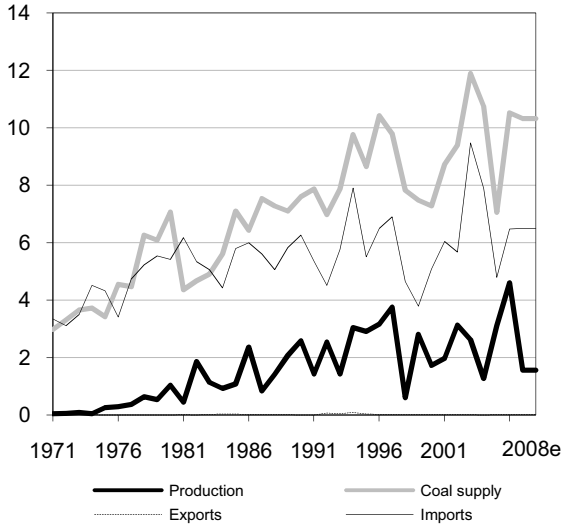


Chart 4: Coal consumption (Mtce)

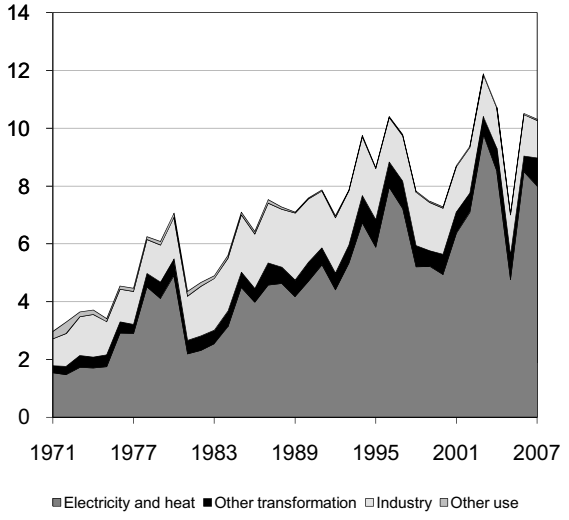


Chart 5: Electricity generation by fuel (TWh)

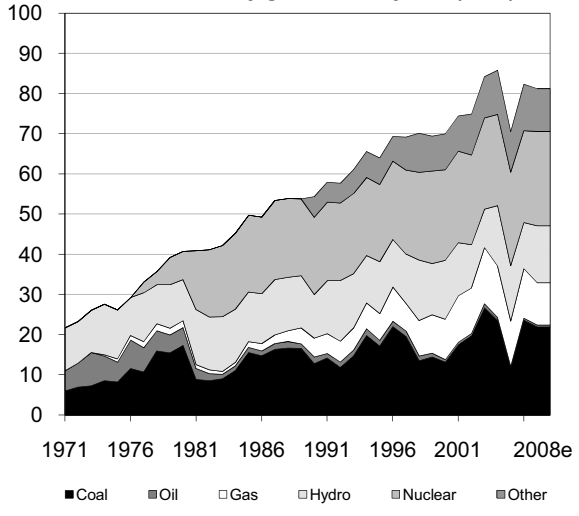
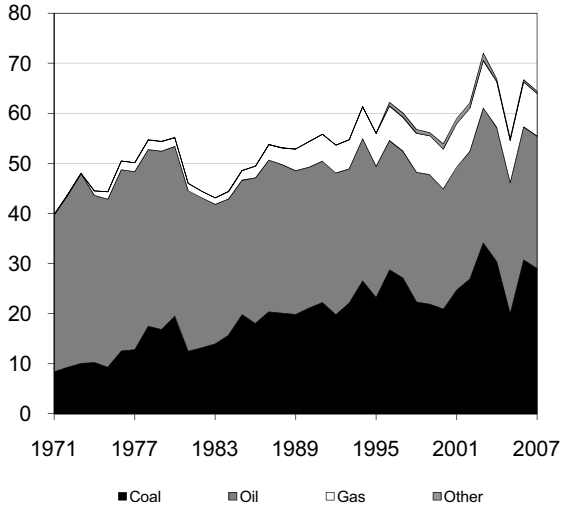


Chart 6: CO_2 emissions by fuel (Mt CO_2)



*Please refer to notes in *Principles and Definitions* . Peat is included in coal for all charts.

Finland

1. TOTAL PRIMARY ENERGY SUPPLY (TPES) BY FUEL*

	1973	1980	1990	2000	2006	2007	2008e	Average annual percent change 73-90	90-07
TPES (Mtce)	**30.05**	**35.14**	**40.54**	**45.87**	**52.82**	**52.10**	**49.71**	**1.78**	**1.49**
Coal and peat	3.65	7.07	7.60	7.28	10.52	10.32	7.77	4.41	1.82
Oil	18.94	18.00	13.52	12.52	14.43	13.92	13.76	-1.97	0.17
Gas	-	1.10	3.12	4.89	5.54	5.32	5.50	-	3.19
Comb. renew/waste	5.63	4.96	6.52	9.54	10.89	10.46	10.39	0.86	2.82
Nuclear	-	2.61	7.15	8.37	8.53	8.72	8.54	-	1.17
Hydro	1.29	1.26	1.33	1.80	1.41	1.74	2.10	0.19	1.58
Geothermal	-	-	-	-	-	-	-	-	-
Solar, wind, tide	-	-	0.00	0.01	0.02	0.02	0.03	-	25.07
Net electricity trade(1)	0.53	0.15	1.31	1.46	1.40	1.54	1.57	5.45	0.98
Heat(2)	-	-	-	0.00	0.08	0.05	0.04	-	-

Source: *IEA/OECD Energy Balances of OECD Countries*

(1) Net trade between OECD and non-OECD countries.

(2) Ambient heat from heat pumps used in the transformation sector.

2. ENERGY SUPPLY, GDP AND POPULATION*

	1973	1980	1990	2000	2006	2007	2008e	Average annual percent change 73-90	90-07
GDP (2000 bil. US$)	61	74	100	122	145	151	152	2.96	2.45
TPES/GDP(1)	0.49	0.47	0.40	0.38	0.36	0.34	0.33	-1.15	-0.94
Population (millions)	4.7	4.8	5.0	5.2	5.3	5.3	5.3	0.39	0.35
TPES/population(1)	6.44	7.35	8.13	8.86	10.03	9.85	9.41	1.38	1.14
TPES/GDP(2)	130.8	125.4	107.4	100.0	97.0	91.5	86.8	-1.15	-0.94
Coal and peat supply/GDP(2)	100.1	159.0	126.8	100.0	121.8	114.2	85.5	1.40	-0.61
Elec. consumption/GDP(2)	71.2	80.5	94.8	100.0	95.6	91.8	..	1.70	-0.19
Elec. generation (TWh)	26	41	54	70	82	81	77	4.41	2.39
Industrial production(2)	35.8	45.8	60.7	100.0	120.0	125.4	124.4	3.15	4.36

Source: *IEA/OECD Energy Balances of OECD Countries* , *OECD Main Economic Indicators*

(1) TPES/GDP in units of tce/2000 thousand US$, TPES/population in units of tce/capita.

(2) As index, 2000 = 100

3. COAL AND PEAT PRODUCTION BY TYPE*

	1978(1)	1980	1990	2000	2006	2007	2008e	Average annual percent change 78-90	90-07
Mtce:									
Coking coal	-	-	-	-	-	-	-	-	-
Steam coal	-	-	-	-	-	-	-	-	-
Brown coal	-	-	-	-	-	-	-	-	-
Peat	0.63	1.04	2.59	1.72	4.61	1.55	1.66	12.47	-2.95
Mt:									
Coking coal	-	-	-	-	-	-	-	-	-
Steam coal	-	-	-	-	-	-	-	-	-
Brown coal	-	-	-	-	-	-	-	-	-
Peat	2.21	3.63	7.15	4.86	13.24	4.47	4.77	10.28	-2.73

Source: *IEA/OECD Energy Balances of OECD Countries, IEA/OECD Energy Statistics of OECD Countries*

(1) Earliest year for which split by coal type is available.

* Please refer to notes in *Principles and Definitions* .

Finland

4. FINAL CONSUMPTION OF ENERGY BY FUEL*

(Mtce)

	1973	1980	1990	2000	2005	2006	2007	Average annual percent change 73-90	90-07
TFC[1]	**27.41**	**27.63**	**31.77**	**34.14**	**36.14**	**38.24**	**38.21**	**0.87**	**1.09**
Coal and peat	1.51	1.58	2.23	1.64	1.43	1.48	1.34	2.32	-2.97
Oil	16.08	14.29	13.13	10.75	11.87	12.11	12.09	-1.19	-0.48
Gas	0.01	0.62	1.41	1.43	1.24	1.40	1.54	31.15	0.55
Comb. renew/wastes	5.63	4.93	5.03	7.06	6.51	6.35	6.45	-0.66	1.47
Geothermal	-	-	-	-	-	-	-	-	-
Solar, wind, tide	-	-	0.00	0.00	0.00	0.00	0.00	-	2.90
Electricity	3.31	4.57	7.24	9.29	9.94	10.54	10.58	4.71	2.25
Heat	0.86	1.64	2.74	3.97	5.14	6.36	6.21	7.02	4.94
of which:									
Total industry	**9.31**	**8.55**	**12.89**	**16.00**	**16.41**	**18.05**	**17.51**	**1.93**	**1.82**
Coal and peat	1.34	1.44	2.20	1.60	1.39	1.43	1.29	2.96	-3.07
Oil	5.63	3.57	1.63	1.32	1.97	2.06	1.76	-7.04	0.45
Gas	0.01	0.57	1.31	1.27	1.03	1.16	1.12	35.41	-0.94
Comb. renew/wastes	-	-	3.50	5.51	4.86	4.67	4.79	-	1.85
Geothermal	-	-	-	-	-	-	-	-	-
Solar, wind, tide	-	-	-	-	-	-	-	-	-
Electricity	2.22	2.80	4.00	5.26	5.31	5.77	5.75	3.52	2.16
Heat	0.11	0.17	0.25	1.04	1.85	2.97	2.81	4.83	15.31
Total transport	**3.45**	**4.00**	**5.64**	**5.83**	**6.34**	**6.43**	**6.60**	**2.94**	**0.93**
Coal and peat	0.02	-	-	-	-	-	-	-	-
Oil	3.42	3.97	5.59	5.74	6.23	6.31	6.49	2.93	0.88
Gas	-	-	-	0.02	0.03	0.03	0.02	-	-
Comb. renew/wastes	-	-	-	-	-	0.00	0.00	-	-
Electricity	0.01	0.03	0.05	0.07	0.08	0.08	0.09	12.32	3.18
Residential	**6.13**	**6.39**	**7.62**	**6.48**	**6.92**	**7.06**	**7.15**	**1.29**	**-0.37**
Coal and peat	0.15	0.15	0.03	0.02	0.02	0.02	0.02	-8.67	-3.76
Oil	4.80	4.23	2.91	1.05	0.91	0.89	0.93	-2.91	-6.50
Gas	0.01	0.05	0.04	0.03	0.04	0.05	0.05	11.52	1.47
Comb. renew/wastes	-	-	1.30	1.34	1.39	1.41	1.39	-	0.39
Geothermal	-	-	-	-	-	-	-	-	-
Solar, wind, tide	-	-	0.00	0.00	0.00	0.00	0.00	-	2.90
Electricity	0.62	0.99	1.79	2.23	2.53	2.60	2.64	6.48	2.30
Heat	0.55	0.96	1.54	1.82	2.04	2.10	2.12	6.28	1.91
Comm & public services	**0.43**	**0.68**	**1.28**	**2.22**	**2.47**	**2.59**	**2.59**	**6.58**	**4.24**
Coal and peat	-	-	-	0.00	0.00	0.00	0.00	-	-
Oil	-	-	-	0.47	0.42	0.47	0.46	-	-
Gas	-	-	-	0.04	0.04	0.04	0.04	-	-
Comb. renew/waste	-	-	-	0.08	0.09	0.10	0.09	-	-
Geothermal	-	-	-	-	-	-	-	-	-
Solar, wind, tide	-	-	-	-	-	-	-	-	-
Electricity	0.43	0.68	1.28	1.63	1.91	1.98	1.99	6.58	2.64
Heat	-	-	-	-	-	-	-	-	-
Non-energy use	**1.51**	**1.76**	**2.08**	**1.43**	**1.65**	**1.67**	**1.95**	**1.90**	**-0.38**
Coal and peat	-	-	-	-	-	-	-	-	-
Oil	1.51	1.76	2.05	1.38	1.58	1.56	1.66	1.80	-1.24
Gas	-	-	0.03	0.05	0.07	0.11	0.29	-	13.59

Source: *IEA/OECD Energy Balances of OECD Countries*

(1) Total Final Consumption (TFC) excludes use in transformation and energy sectors.

* Please refer to notes in *Principles and Definitions*.

Finland

5. COAL BALANCE*

(Mtce)

	1973	1980	1990	2000	2006	2007	2008e	Average annual percent change 73-90	90-07
Production	0.1	1.0	2.6	1.7	4.6	1.6	1.7	22.6	-3.0
Imports	3.5	5.4	6.3	5.1	6.5	6.5	5.5	3.5	0.2
Exports	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-17.1	19.9
Stock changes	0.1	0.6	-1.3	0.5	-0.5	2.3	0.7	x	x
Primary supply	**3.6**	**7.1**	**7.6**	**7.3**	**10.5**	**10.3**	**7.8**	**4.4**	**1.8**
Statistical difference	**-0.0**	**-0.2**	**-0.1**	**-0.0**	**0.1**	**-0.2**	**..**	**x**	**x**
Total transformation	**-2.1 e**	**-5.3 e**	**-5.3 e**	**-5.6 e**	**-9.1 e**	**-8.7 e**	**..**	**5.5**	**3.0**
Electricity and heat gen.	-1.7	-4.9	-4.7	-4.9	-8.5	-8.0	..	6.1	3.2
Main activity producers (1)	*-1.7*	*-4.5*	*-4.4*	*-4.5*	*-8.1*	*-7.6*	*..*	*5.7*	*3.2*
Autoproducers	-	*-0.5*	*-0.3*	*-0.4*	*-0.5*	*-0.4*	*..*	-	*2.2*
Gas works	-0.0	-	-	-	-	-	..	-	-
Coal transformation(2)	-0.4 e	-0.4 e	-0.5 e	-0.6 e	-0.6 e	-0.7 e	..	2.2	1.7
BKB plants	-	-	-	-	-	-	*..*	-	-
Blast furnaces	*-0.4 e*	*-0.4 e*	*-0.5 e*	*-0.5 e*	*-0.5 e*	*-0.6 e*	*..*	*2.0*	*0.6*
Coke ovens	-	-	*-0.0*	*-0.1*	*-0.1*	*-0.1*	*..*	-	*14.6*
Patent fuel plants	-	-	-	-	-	-	*..*	-	-
Other transformation(3)	-	-	-	-	-	-	..	-	-
Own use	**-**	**-**	**-**	**-**	**-**	**-0.0**	**..**	**-**	**-**
Distribution losses	**-**	**-**	**-0.0**	**-0.0**	**-0.0**	**-0.0**	**..**	**x**	**x**
Final consumption(4)	**1.5**	**1.6**	**2.2**	**1.6**	**1.5**	**1.3**	**..**	**2.3**	**-3.0**
Industry sector(5)	1.3	1.4	2.2	1.6	1.4	1.3	..	3.0	-3.1
Iron and steel	*0.4 e*	*0.5 e*	*0.8 e*	*0.8 e*	*0.8 e*	*0.7 e*	*..*	*4.3*	*-0.6*
Chemical	*0.0*	*0.0*	*0.1*	*0.1*	*0.0*	*0.0*	*..*	*17.2*	*-7.7*
Non-metallic minerals	-	*0.5*	*0.7*	*0.2*	*0.2*	*0.2*	*..*	-	*-7.9*
Paper, pulp and print	*0.0*	*0.3*	*0.5*	*0.4*	*0.4*	*0.4*	*..*	*20.2*	*-2.2*
Transport sector(6)	0.0	-	-	-	-	-	..	-	-
Other sectors(7)	0.2	0.1	0.0	0.0	0.0	0.0	..	-8.7	1.7
Comm. and pub. services	-	-	-	*0.0*	*0.0*	*0.0*	*..*	-	-
Residential	*0.2*	*0.1*	*0.0*	*0.0*	*0.0*	*0.0*	*..*	*-8.7*	*-3.8*
Non-energy use	-	-	-	-	-	-	..	-	-

Source: *IEA/OECD Energy Balances of OECD Countries*

(1) Main activity electricity and heat generation includes district heating.

(2) Coal transformation refers to the transformation of coal and peat to secondary and tertiary products (mainly coke, briquettes, coke oven gas and blast furnace gas).

(3) Other transformation includes liquefaction and non-specified transformation.

(4) Final Consumption includes non-energy use and energy use (industry, transport and other sectors).

(5) Please refer to notes in *Principles and Definitions* for detailed explanation.

(6) Transport sector includes rail and inland waterways.

(7) Other sectors includes commercial and public services, agriculture, and residential.

* "Coal" refers to all types of coal, primary (anthracite, coking coal, other bituminous coal, sub-bituminous coal, lignite/brown coal, peat) and derived fuels (including patent fuel, BKB/peat briquettes, coke oven coke, gas coke, coal tar, coke oven gas, gas works gas, blast furnace gas and oxygen steel furnace gas). Quantities have been converted to Mtce using calorific values reported by the respective countries. Please refer to notes in *Principles and Definitions*.

Finland

6. USE OF COAL FOR SELECTED END-USES*

(million tonnes)

	1978	1980	1990	2000	2005	2006	2007	Average annual percent change 78-90	90-07
Steam coal	**5.31**	**5.69**	**4.94**	**3.91**	**3.20**	**6.54**	**5.66**	**-0.60**	**0.80**
Total electricity and heat	4.57	4.82	3.88	3.50	2.91	6.33	5.49	-1.34	2.05
Main activity producers	*4.52*	*4.73*	*3.77*	*3.46*	*2.90*	*6.32*	*5.48*	*-1.49*	*2.22*
Autoproducers	*0.05*	*0.10*	*0.11*	*0.05*	*0.02*	*0.02*	*0.01*	*7.24*	*-15.77*
Patent fuel/BKB plants	-	-	-	-	-	-	-	-	-
Coke ovens	-	-	-	-	-	-	-	-	-
Blast furnace inputs	-	-	-	-	-	-	-	-	-
Gas manufacture	-	-	-	-	-	-	-	-	-
Industry sector	0.67	0.79	1.04	0.34	0.28	0.20	0.18	3.82	-9.76
Iron and steel	*0.09*	*0.08*	*0.08*	-	-	-	-	*-0.61*	-
Chemical	*0.01*	*0.01*	*0.08*	*0.07*	*0.09*	-	-	*16.10*	-
Non-metallic minerals	*0.41*	*0.51*	*0.76*	*0.17*	*0.17*	*0.18*	*0.16*	*5.22*	*-8.67*
Paper, pulp and print	-	-	*0.09*	*0.09*	*0.02*	*0.02*	*0.02*	-	*-8.98*
Other industry	*0.15*	*0.18*	*0.02*	*0.01*	-	*0.00*	-	*-14.26*	-
Res, comm & pub serv[1]	0.08	0.08	0.01	0.00	0.00	0.00	0.00	-16.20	-12.12
Non-energy use	-	-	-	-	-	-	-	-	-
Coking coal	**-**	**-**	**0.71**	**1.28**	**1.40**	**1.07**	**1.42**	**-**	**4.14**
Total electricity and heat	-	-	-	-	-	-	-	-	-
Main activity producers	-	-	-	-	-	-	-	-	-
Autoproducers	-	-	-	-	-	-	-	-	-
Patent fuel/BKB plants	-	-	-	-	-	-	-	-	-
Coke ovens	-	-	0.71	1.28	1.28	1.24	1.24	-	3.33
Blast furnace inputs	-	-	-	-	-	-	-	-	-
Gas manufacture	-	-	-	-	-	-	-	-	-
Industry sector	-	-	-	-	-	-	-	-	-
Iron and steel	-	-	-	-	-	-	-	-	-
Chemical	-	-	-	-	-	-	-	-	-
Non-metallic minerals	-	-	-	-	-	-	-	-	-
Paper, pulp and print	-	-	-	-	-	-	-	-	-
Other industry	-	-	-	-	-	-	-	-	-
Res, comm & pub serv[1]	-	-	-	-	-	-	-	-	-
Non-energy use	-	-	-	-	-	-	-	-	-
Brown coal/lignite	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
Total electricity and heat	-	-	-	-	-	-	-	-	-
Main activity producers	-	-	-	-	-	-	-	-	-
Autoproducers	-	-	-	-	-	-	-	-	-
Patent fuel/BKB plants	-	-	-	-	-	-	-	-	-
Coke ovens	-	-	-	-	-	-	-	-	-
Gas manufacture	-	-	-	-	-	-	-	-	-
Industry sector	-	-	-	-	-	-	-	-	-
Iron and steel	-	-	-	-	-	-	-	-	-
Chemical	-	-	-	-	-	-	-	-	-
Non-metallic minerals	-	-	-	-	-	-	-	-	-
Paper, pulp and print	-	-	-	-	-	-	-	-	-
Other industry	-	-	-	-	-	-	-	-	-
Res, comm & pub serv[1]	-	-	-	-	-	-	-	-	-
Non-energy use	-	-	-	-	-	-	-	-	-

Source: *IEA/OECD Energy Statistics of OECD Countries*

(1) Residential, commercial and public services.

* Please refer to notes in *Principles and Definitions*.

Finland

7. FUEL PRICES TO END USERS*

	1978[1]	1980	1990	2000	2004	2005	2006	2007	2008
				(US dollars / tce)					
For electricity generation									
Steam coal	51.74	77.80	72.35	44.40	76.99	82.82	85.36	96.21	164.25
Heavy fuel oil	71.34	148.30	130.84	133.67	160.09	232.79	267.72	300.68	420.74
Natural gas	78.45	158.02	96.13	88.04	113.21	128.66	173.47	187.08	264.51
For industry									
Steam coal	51.74	77.80	72.35	89.47	140.81	146.63	149.81	166.59	249.09
Coking coal	..	..	..	99.78	158.63	196.65	203.29	225.89	382.62
High sulphur fuel oil	71.34	148.30	130.84	..	..	..	..	..	..
Low sulphur fuel oil	..	..	..	172.12	214.08	286.78	322.25	360.21	492.16
Natural gas	78.45	158.02	96.13	101.68	132.46	147.93	192.94	208.33	289.53
				(Euro / unit)[2]					
For electricity generation									
Steam coal	31.11	42.38	40.48	41.92	53.93	58.01	59.20	61.12	97.76
Heavy fuel oil	67.61	127.32	115.38	198.90	176.74	257.00	292.63	301.03	394.68
Natural gas	69.70	127.18	79.47	122.82	117.18	133.16	177.76	175.58	232.62
For industry									
Steam coal	31.11	42.38	40.48	84.47	98.63	102.71	103.90	105.82	148.26
Coking coal	..	..	..	108.23	127.66	158.25	161.98	164.85	261.63
High sulphur fuel oil	67.61	127.32	115.38	..	..	..	..	..	..
Low sulphur fuel oil	..	..	..	256.12	236.34	316.60	352.23	360.63	461.68
Natural gas	69.70	127.18	79.47	141.85	137.10	153.11	197.71	195.53	254.62

Source: *IEA/OECD Energy Prices & Taxes*

(1) Earliest year for which split by coal type is available.

(2) For steam coal, coking coal and heavy fuel oil per metric tonne; for natural gas per 10^7 kilocalories GCV.

* Please refer to notes in *Principles and Definitions*.

8. COAL TRADE BY TYPE OF COAL*

(Mtce)

	1973	1980	1990	2000	2004	2005	2006	2007	2008e
Total imports	**3.50**	**5.41**	**6.27**	**5.08**	**7.90**	**4.80**	**6.47**	**6.51**	**5.45**
Hard coal	2.68	4.20	5.49	4.58	7.39	4.29	5.95	5.93	4.92
Coking coal	*..*	*-*	*0.64*	*1.26*	*1.36*	*1.40*	*1.07*	*1.42*	*1.08*
Steam coal	*..*	*4.20*	*4.85*	*3.32*	*6.02*	*2.89*	*4.88*	*4.52*	*3.84*
Brown coal / lignite	-	-	-	-	-	-	-	-	-
Peat	-	-	-	-	-	-	-	-	-
Coal products[1]	0.82	1.21	0.77	0.50	0.51	0.50	0.52	0.57	0.53
Total exports	**0.02**	**0.00**	**0.00**	**0.02**	**0.00**	**0.01**	**0.01**	**0.02**	**0.02**
Hard coal	-	-	-	-	-	-	-	-	-
Coking coal	*..*	-	-	-	-	-	-	-	-
Steam coal	*..*	-	-	-	-	-	-	-	-
Brown coal / lignite	-	-	-	-	-	-	-	-	-
Peat	-	-	-	0.02	0.00	0.01	0.01	0.02	0.01
Coal products[1]	0.02	0.00	0.00	-	-	-	-	0.00	0.00

Source: *IEA/OECD Energy Balances of OECD Countries, IEA/OECD Energy Statistics of OECD Countries*

(1) Coal products includes products derived from coal, for example: coke, coal tar, briquettes, patent fuels.

* Please refer to notes in *Principles and Definitions*.

Finland

9. HARD COAL IMPORTS BY ORIGIN*

(thousand tonnes)

	1978[1]	1980	1990	2000	2004	2005	2006	2007	2008e
Hard Coal	**4789**	**4669**	**6101**	**5072**	**8286**	**4723**	**6684**	**6670**	**5544**
Coking Coal	**-**	**-**	**711**	**1258**	**1364**	**1401**	**1073**	**1418**	**1077**
Australia	-	-	-	-	336	487	249	559	292
Canada	-	-	-	100	239	519	434	529	393
Czech Republic	-	-	-	-	-	-	-	-	-
Germany	-	-	-	2	-	-	2	-	-
Poland	-	-	203	705	308	13	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-
United States	-	-	45	360	410	382	324	315	392
Other OECD	-	-	-	-	-	-	-	-	-
China, People's Rep.	-	-	-	-	-	-	-	2	-
Colombia	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-
South Africa	-	-	-	-	-	-	-	-	-
Former USSR[2]	-	-	-	-	-	-	-	-	-
Russia[3]	-	-	*463*	*91*	*71*	-	*64*	*13*	-
Other Former USSR[3]	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-
Non-specified/other	-	-	-	-	-	-	-	-	-
Steam coal	**4789**	**4669**	**5390**	**3814**	**6922**	**3322**	**5611**	**5252**	**4467**
Australia	-	-	-	-	-	-	-	-	-
Canada	-	4	-	-	-	-	-	-	-
Czech Republic	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-
Poland	4089	3535	2609	1313	1317	551	530	270	88
United Kingdom	3	4	253	-	12	3	9	7	-
United States	-	533	41	-	20	-	467	39	141
Other OECD	-	4	-	51	82	1	48	24	47
China, People's Rep.	-	-	100	-	-	-	-	-	-
Colombia	-	-	334	-	-	-	323	88	68
Indonesia	-	-	-	-	-	-	274	-	129
South Africa	-	-	-	-	-	-	379	-	191
Former USSR[2]	697	589	-	-	-	-	-	-	-
Russia[3]	-	-	*1905*	*2448*	*5422*	*2736*	*3558*	*4811*	*3770*
Other Former USSR[3]	-	-	-	*2*	*69*	*31*	*23*	*13*	*33*
Venezuela	-	-	148	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-
Non-specified/other	-	-	-	-	-	-	-	-	-

Source: IEA/OECD Coal Statistics

(1) Earliest year for which split by coal type is available.

(2) If no detail.

(3) Data for former republics are not available separately for some OECD member countries.

* Please refer to notes in *Principles and Definitions*.

Finland

12. COAL IMPORT VALUES BY ORIGIN*

(average unit value, CIF, US$/tonne)

	1988	1990	1995	2003	2004	2005	2006	2007	2008
Coking coal[1]	**..**	**..**	**60.49**	**66.29**	**95.47**	**131.60**	**138.48**	**152.40**	**326.47**
Imports from:									
Australia	..	..	..	65.58	85.75	148.54	139.46	150.14	392.82
Canada	..	..	..	69.89	89.94	153.33	149.22	164.99	350.70
Czech Republic	..	..	..	..	..	..	..	..	..
Poland	..	..	60.94	66.07	124.02	147.80	..	..	..
United States	..	..	60.37	65.40	92.30	121.25	125.76	135.83	258.32
China	..	..	..	..	..	..	..	..	..
Colombia	..	..	..	..	..	..	..	..	..
South Africa	..	..	..	..	..	..	..	..	..
Former USSR[2]	..	..	59.06	66.06	54.76	57.46	124.04	129.54	..
Steam coal[3]	**..**	**49.71**	**44.30**	**39.99**	**58.45**	**62.80**	**67.65**	**72.64**	**134.21**
Imports from:									
Australia	..	..	46.59	46.85	..	..	..	..	..
Canada	..	..	..	..	..	..	..	..	..
Czech Republic	..	..	..	..	..	..	..	..	..
Poland	..	..	44.28	38.21	63.74	68.11	73.39	79.86	164.75
United States	..	..	53.46	42.11	..	..	78.95	72.38	136.19
China	..	..	..	42.69	..	..	..	..	..
Colombia	..	..	52.73	45.46	..	..	82.30	77.53	215.26
South Africa	..	..	..	39.99	..	..	76.78	..	195.76
Former USSR[2]	..	..	40.34	39.83	57.32	61.59	62.84	71.89	124.32

Source: IEA/OECD Coal Statistics

Note: On occasion, shipment of extremely small quantities of high valued coal results in high import costs.

(1) Weighted average of individual countries using import volumes as weights. Prices exclude intra-EU trade.

(2) Former USSR until 1991, Russia starting in 1992.

(3) Bituminous steam coal only. Weighted average of individual countries using volumes as weights. Prices exclude intra-EU trade.

* Please refer to notes in *Principles and Definitions*.

France*

Chart 1: TPES by fuel (Mtce)

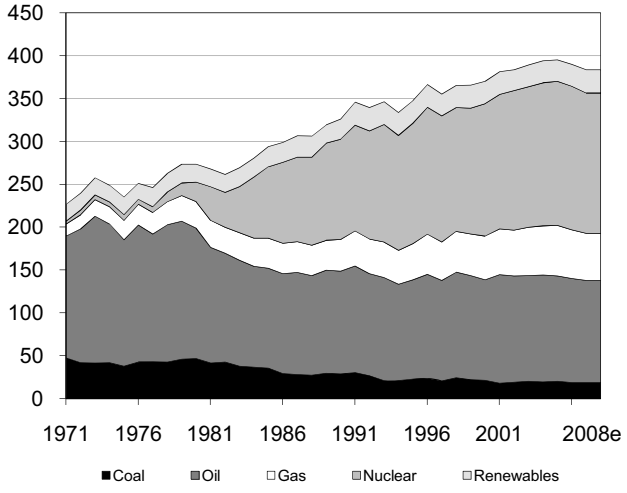


Chart 2: Coal supply indicators (1971 = 100)

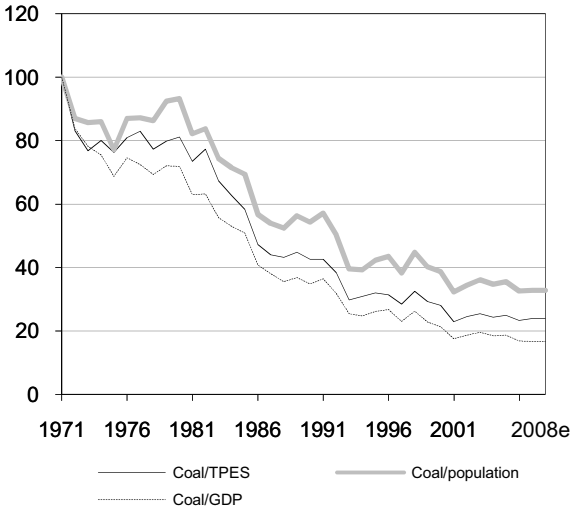


Chart 3: Primary coal supply (Mtce)

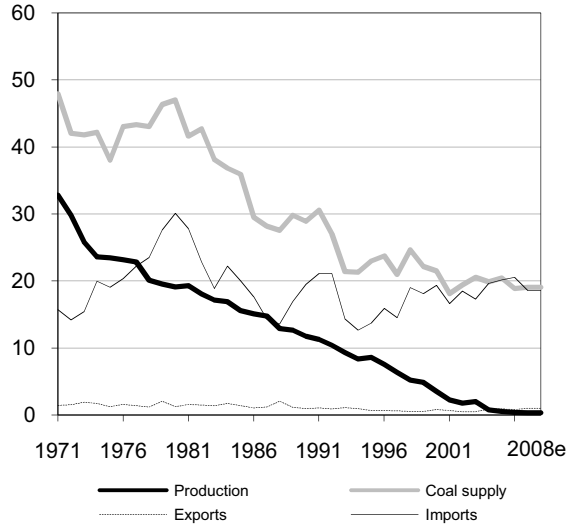


Chart 4: Coal consumption (Mtce)

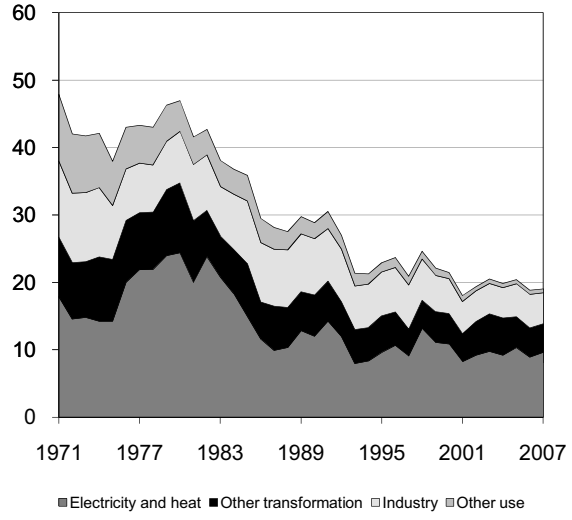


Chart 5: Electricity generation by fuel (TWh)

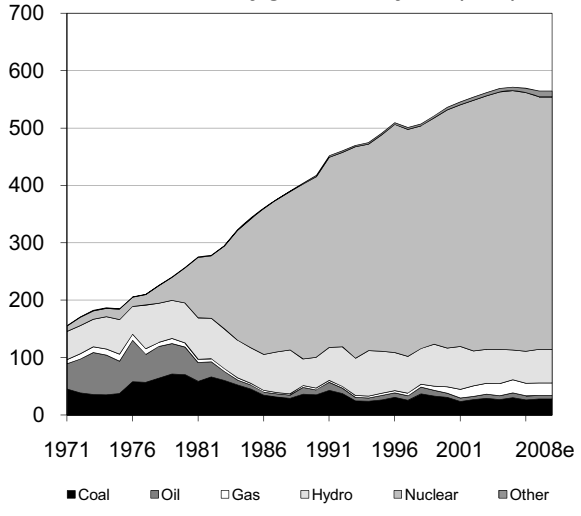
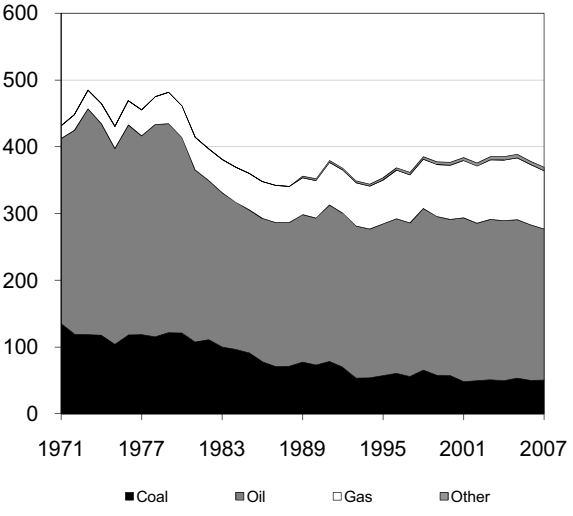


Chart 6: CO_2 emissions by fuel (Mt CO_2)



*Please refer to notes in *Principles and Definitions* . Peat is included in coal for all charts.

France

1. TOTAL PRIMARY ENERGY SUPPLY (TPES) BY FUEL*

	1973	1980	1990	2000	2006	2007	2008e	Average annual percent change 73-90	90-07
TPES (Mtce)	**257.34**	**273.96**	**320.68**	**361.74**	**382.44**	**376.74**	**381.31**	**1.30**	**0.95**
Coal and peat	41.77	46.99	28.87	21.49	18.85	19.05	18.47	-2.15	-2.42
Oil	171.15	151.88	119.88	117.19	121.46	118.94	119.65	-2.07	-0.05
Gas	19.37	30.91	37.18	51.08	56.59	54.96	56.91	3.91	2.33
Comb. renew/waste	13.98	12.35	16.53	17.42	18.26	19.11	19.72	0.99	0.86
Nuclear	5.49	22.80	116.93	154.56	167.60	163.71	163.61	19.71	2.00
Hydro	5.86	8.54	6.61	8.25	6.90	7.15	7.84	0.71	0.46
Geothermal	0.00	0.02	0.16	0.18	0.19	0.19	0.16	28.87	0.96
Solar, wind, tide	0.07	0.07	0.10	0.10	0.37	0.61	0.83	2.11	11.41
Net electricity trade(1)	-0.35	0.40	-5.58	-8.54	-7.78	-6.98	-5.90	17.60	1.32
Heat(2)	-	-	-	-	-	-	-	-	-

Source: *IEA/OECD Energy Balances of OECD Countries*

(1) Net trade between OECD and non-OECD countries.

(2) Ambient heat from heat pumps used in the transformation sector.

2. ENERGY SUPPLY, GDP AND POPULATION*

	1973	1980	1990	2000	2006	2007	2008e	Average annual percent change 73-90	90-07
GDP (2000 bil. US$)	703	861	1092	1328	1474	1506	1518	2.62	1.91
TPES/GDP(1)	0.37	0.32	0.29	0.27	0.26	0.25	0.25	-1.28	-0.94
Population (millions)	53.3	55.1	58.2	60.8	63.2	63.6	64.0	0.52	0.52
TPES/population(1)	4.83	4.97	5.51	5.95	6.05	5.93	5.96	0.78	0.43
TPES/GDP(2)	134.3	116.8	107.8	100.0	95.3	91.9	92.2	-1.28	-0.94
Coal and peat supply/GDP(2)	366.9	337.2	163.4	100.0	79.1	78.2	75.2	-4.65	-4.24
Elec. consumption/GDP(2)	72.9	83.8	95.5	100.0	99.9	97.6	..	1.60	0.13
Elec. generation (TWh)	183	257	417	536	569	564	570	4.98	1.79
Industrial production(2)	69.0	75.8	88.6	100.0	101.0	102.5	100.2	1.48	0.86

Source: *IEA/OECD Energy Balances of OECD Countries* , *OECD Main Economic Indicators*

(1) TPES/GDP in units of tce/2000 thousand US$, TPES/population in units of tce/capita.

(2) As index, 2000 = 100

3. COAL AND PEAT PRODUCTION BY TYPE*

	1978(1)	1980	1990	2000	2006	2007	2008e	Average annual percent change 78-90	90-07
Mtce:									
Coking coal	4.80	4.23	1.80	-	-	-	-	-7.86	-
Steam coal	14.14	13.78	8.55	3.37	0.40	0.34	0.25	-4.11	-17.32
Brown coal	1.17	1.10	1.43	0.17	-	-	-	1.68	-
Peat	-	-	-	-	-	-	-	-	-
Mt:									
Coking coal	4.66	4.11	1.82	-	-	-	-	-7.54	-
Steam coal	16.50	16.08	9.38	3.80	0.45	0.38	0.28	-4.60	-17.19
Brown coal	2.73	2.56	2.33	0.30	-	-	-	-1.30	-
Peat	-	-	-	-	-	-	-	-	-

Source: *IEA/OECD Energy Balances of OECD Countries, IEA/OECD Energy Statistics of OECD Countries*

(1) Earliest year for which split by coal type is available.

* Please refer to notes in *Principles and Definitions* .

France

4. FINAL CONSUMPTION OF ENERGY BY FUEL*

(Mtce)

	1973	1980	1990	2000	2005	2006	2007	Average annual percent change 73-90	90-07
TFC[1]	**203.17**	**201.84**	**204.76**	**234.53**	**242.67**	**240.32**	**235.67**	**0.05**	**0.83**
Coal and peat	18.67	12.23	10.74	6.11	5.52	5.57	5.16	-3.20	-4.22
Oil	137.19	124.80	107.20	115.63	114.81	113.65	110.86	-1.44	0.20
Gas	15.95	27.59	34.17	45.91	49.35	47.70	45.71	4.58	1.73
Comb. renew/wastes	12.73	11.16	14.64	14.77	14.90	15.22	15.90	0.82	0.49
Geothermal	0.00	0.02	0.16	0.18	0.19	0.19	0.19	28.87	0.96
Solar, wind, tide	-	0.01	0.03	0.02	0.03	0.04	0.05	-	3.60
Electricity	18.26	25.69	37.13	47.29	51.92	52.43	52.32	4.26	2.04
Heat	0.37	0.34	0.68	4.62	5.95	5.53	5.49	3.69	13.05
of which:									
Total industry	**59.55**	**58.87**	**47.08**	**49.47**	**47.32**	**46.03**	**44.73**	**-1.37**	**-0.30**
Coal and peat	10.24	7.66	8.37	5.20	4.92	4.99	4.59	-1.18	-3.47
Oil	31.22	27.53	9.36	7.86	9.01	8.91	8.62	-6.84	-0.48
Gas	6.10	10.35	13.12	17.64	13.88	13.24	12.77	4.62	-0.16
Comb. renew/wastes	1.67	1.61	2.14	2.23	2.36	2.40	2.45	1.44	0.81
Geothermal	-	-	-	-	-	-	-	-	-
Solar, wind, tide	-	-	-	-	-	-	-	-	-
Electricity	10.32	11.72	14.09	16.54	17.14	16.50	16.29	1.85	0.86
Heat	-	-	-	-	-	-	-	-	-
Total transport	**35.29**	**43.30**	**54.94**	**65.03**	**64.29**	**64.51**	**65.13**	**2.64**	**1.01**
Coal and peat	0.09	0.03	-	-	-	-	-	-	-
Oil	34.39	42.42	53.85	63.12	62.15	61.81	61.41	2.67	0.78
Gas	0.02	0.01	0.00	0.00	0.07	0.09	0.09	-23.40	42.51
Comb. renew/wastes	-	-	-	0.48	0.57	1.09	2.09	-	-
Electricity	0.79	0.85	1.09	1.44	1.50	1.52	1.53	1.95	2.01
Residential	**30.57**	**32.28**	**52.08**	**60.58**	**64.51**	**63.77**	**59.25**	**3.18**	**0.76**
Coal and peat	8.34	4.54	2.37 e	0.90	0.52	0.51	0.50	-7.12	-8.80
Oil	2.61	2.99	15.84	14.11	14.29	13.32	11.83	11.19	-1.70
Gas	5.00	7.75	9.41	18.08 e	20.64	20.87	18.48	3.79	4.05
Comb. renew/wastes	10.92	9.41	12.38	11.47	11.14	10.83	10.36	0.74	-1.04
Geothermal	0.00	0.01	0.15	0.17	0.13	0.13	0.13	28.81	-0.92
Solar, wind, tide	-	0.01	0.03	0.02	0.03	0.04	0.05	-	2.95
Electricity	3.71	7.56	11.91	15.81	17.76	18.07	17.91	7.11	2.43
Heat	-	-	-	-	-	-	-	-	-
Comm & public services	**52.32**	**43.15**	**25.91**	**26.41**	**30.67**	**30.18**	**30.18**	**-4.05**	**0.90**
Coal and peat	-	-	-	-	-	-	-	-	-
Oil	46.32	31.67	7.38	6.66	7.04	6.52	5.77	-10.24	-1.44
Gas	2.70	6.13	8.72	6.45 e	7.97	7.06	7.39	7.14	-0.97
Comb. renew/waste	-	-	0.07	0.53	0.77	0.83	0.94	-	16.65
Geothermal	-	-	-	-	0.04	0.04	0.04	-	-
Solar, wind, tide	-	-	-	-	-	0.00	0.01	-	-
Electricity	3.30	5.36	9.75	12.78	14.84	15.72	16.03	6.58	2.97
Heat	-	-	-	-	-	-	-	-	-
Non-energy use	**20.86**	**19.16**	**18.72**	**22.96**	**20.58**	**21.22**	**21.92**	**-0.64**	**0.93**
Coal and peat	-	-	-	-	-	-	-	-	-
Oil	18.72	15.99	16.00	19.65	18.01	18.90	19.33	-0.92	1.12
Gas	2.14	3.17	2.72	3.32	2.57	2.32	2.60	1.43	-0.28

Source: *IEA/OECD Energy Balances of OECD Countries*

(1) Total Final Consumption (TFC) excludes use in transformation and energy sectors.

* Please refer to notes in *Principles and Definitions*.

France

5. COAL BALANCE*

(Mtce)

	1973	1980	1990	2000	2006	2007	2008e	Average annual percent change 73-90	90-07
Production	25.8	19.1	11.8	3.5	0.4	0.3	0.2	-4.5	-18.9
Imports	15.4	30.1	19.5	19.3	20.6	18.6	21.4	1.4	-0.3
Exports	-1.9	-1.2	-0.9	-0.8	-0.8	-1.0	-1.1	-4.1	0.3
Stock changes	2.4	-1.0	-1.5	-0.6	-1.3	1.1	-2.1	x	x
Primary supply	**41.8**	**47.0**	**28.9**	**21.5**	**18.9**	**19.1**	**18.5**	**-2.1**	**-2.4**
Statistical difference	**2.0**	**-0.0**	**-0.3**	**0.4**	**0.3**	**0.3**	**..**	**x**	**x**
Total transformation	**-22.1 e**	**-31.9 e**	**-16.8 e**	**-15.0 e**	**-12.9 e**	**-13.5 e**	**..**	**-1.6**	**-1.3**
Electricity and heat gen.	-14.8	-24.4	-12.0	-10.9	-8.9	-9.6	..	-1.2	-1.3
Main activity producers (1)	*-14.8*	*-16.9*	*-6.9*	*-9.4*	*-7.2*	*-7.8*	*..*	*-4.4*	*0.7*
Autoproducers	*-*	*-7.5*	*-5.1*	*-1.4*	*-1.8*	*-1.9*	*..*	*-*	*-5.7*
Gas works	-0.2	-0.1	-	-	-	-	..	-	-
Coal transformation(2)	-7.1 e	-7.4 e	-4.7 e	-4.1 e	-4.0 e	-3.8 e	..	-2.3	-1.2
BKB plants	*-*	*-*	*-*	*-*	*-*	*-*	*..*	*-*	*-*
Blast furnaces	*-6.3 e*	*-6.3 e*	*-3.8 e*	*-3.6 e*	*-3.4 e*	*-3.3 e*	*..*	*-2.8*	*-0.8*
Coke ovens	*-1.3*	*-1.5*	*-1.1*	*-0.5*	*-0.6*	*-0.5*	*..*	*-0.8*	*-4.6*
Patent fuel plants	*0.4*	*0.3*	*0.2*	*0.0*	*0.0*	*0.0*	*..*	*-3.9*	*-18.6*
Other transformation(3)	-	-	-	-	-	-	..	-	-
Own use	**-2.5**	**-2.7**	**-0.9**	**-0.8**	**-0.7**	**-0.7**	**..**	**-6.1**	**-1.4**
Distribution losses	**-0.5**	**-0.2**	**-0.2**	**-0.1**	**-**	**-**	**..**	**x**	**x**
Final consumption(4)	**18.7**	**12.2**	**10.7**	**6.1**	**5.6**	**5.2**	**..**	**-3.2**	**-4.2**
Industry sector(5)	10.2	7.7	8.4	5.2	5.0	4.6	..	-1.2	-3.5
Iron and steel	*6.2*	*4.6 e*	*4.8 e*	*2.8 e*	*3.2 e*	*2.8 e*	*..*	*-1.5*	*-3.1*
Chemical	*1.2*	*0.8*	*1.0 e*	*c*	*0.5*	*0.5*	*..*	*-0.9*	*-3.5*
Non-metallic minerals	*0.5*	*0.6*	*1.0 e*	*0.2 e*	*0.3*	*0.5*	*..*	*4.3*	*-4.4*
Paper, pulp and print	*0.2*	*0.1*	*0.4 e*	*0.1 e*	*0.1*	*0.1*	*..*	*5.6*	*-9.7*
Transport sector(6)	0.1	0.0	-	-	-	-	..	-	-
Other sectors(7)	8.3	4.5	2.4	0.9	0.6	0.6	..	-7.1	-8.1
Comm. and pub. services	*-*	*-*	*-*	*-*	*-*	*-*	*..*	*-*	*-*
Residential	*8.3*	*4.5*	*2.4 e*	*0.9*	*0.5*	*0.5*	*..*	*-7.1*	*-8.8*
Non-energy use	-	-	-	-	-	-	..	-	-

Source: *IEA/OECD Energy Balances of OECD Countries*

(1) Main activity electricity and heat generation includes district heating.

(2) Coal transformation refers to the transformation of coal and peat to secondary and tertiary products (mainly coke, briquettes, coke oven gas and blast furnace gas).

(3) Other transformation includes liquefaction and non-specified transformation.

(4) Final Consumption includes non-energy use and energy use (industry, transport and other sectors).

(5) Please refer to notes in *Principles and Definitions* for detailed explanation.

(6) Transport sector includes rail and inland waterways.

(7) Other sectors includes commercial and public services, agriculture, and residential.

* "Coal" refers to all types of coal, primary (anthracite, coking coal, other bituminous coal, sub-bituminous coal, lignite/brown coal, peat) and derived fuels (including patent fuel, BKB/peat briquettes, coke oven coke, gas coke, coal tar, coke oven gas, gas works gas, blast furnace gas and oxygen steel furnace gas). Quantities have been converted to Mtce using calorific values reported by the respective countries. Please refer to notes in *Principles and Definitions*.

France

6. USE OF COAL FOR SELECTED END-USES*

(million tonnes)

	1978	1980	1990	2000	2005	2006	2007	Average annual percent change 78-90	90-07
Steam coal	**31.60**	**33.51**	**19.12**	**15.26**	**14.92**	**13.09**	**14.87**	**-4.10**	**-1.47**
Total electricity and heat	22.16	24.49	11.03	10.42	10.31	8.62	9.31	-5.65	-0.99
Main activity producers	*16.75*	*18.58*	*7.00*	*9.49*	*9.35*	*7.72*	*8.34*	*-7.01*	*1.04*
Autoproducers	*5.41*	*5.91*	*4.03*	*0.94*	*0.97*	*0.89*	*0.97*	*-2.43*	*-8.06*
Patent fuel/BKB plants	2.09	1.72	0.38	0.11	0.03	0.02	0.01	-13.19	-18.43
Coke ovens	-	-	-	-	-	-	-	-	-
Blast furnace inputs	-	-	1.09	2.03	2.37	2.54	2.45	-	4.92
Gas manufacture	-	-	-	-	-	-	-	-	-
Industry sector	2.91	3.35	4.68	2.46	2.39	2.35	2.23	4.04	-4.27
Iron and steel	*1.47*	*1.10*	*1.63*	*0.43*	*0.56*	*0.68*	*0.51*	*0.88*	*-6.58*
Chemical	*0.38*	*0.53*	*0.81*	*-*	*0.62*	*0.39*	*0.46*	*6.50*	*-3.22*
Non-metallic minerals	*0.15*	*0.62*	*0.99*	*0.20*	*0.27*	*0.31*	*0.45*	*17.02*	*-4.54*
Paper, pulp and print	*0.04*	*0.07*	*0.49*	*0.16*	*0.19*	*0.15*	*0.09*	*22.74*	*-9.56*
Other industry	*0.87*	*1.03*	*0.76*	*1.67*	*0.76*	*0.83*	*0.71*	*-1.14*	*-0.34*
Res, comm & pub serv[1]	3.09	2.67	1.65	0.70	0.48	0.48	0.48	-5.10	-7.00
Non-energy use	-	-	-	-	-	-	-	-	-
Coking coal	**12.98**	**14.57**	**9.67**	**6.54**	**6.22**	**5.98**	**5.32**	**-2.42**	**-3.46**
Total electricity and heat	-	-	-	-	-	-	-	-	-
Main activity producers	-	-	-	-	-	-	-	-	-
Autoproducers	-	-	-	-	-	-	-	-	-
Patent fuel/BKB plants	-	-	-	-	-	-	-	-	-
Coke ovens	12.98	14.57	9.52	6.54	5.85	5.88	5.95	-2.55	-2.72
Blast furnace inputs	-	-	-	-	-	-	-	-	-
Gas manufacture	-	-	-	-	-	-	-	-	-
Industry sector	-	-	-	-	-	-	-	-	-
Iron and steel	-	-	-	-	-	-	-	-	-
Chemical	-	-	-	-	-	-	-	-	-
Non-metallic minerals	-	-	-	-	-	-	-	-	-
Paper, pulp and print	-	-	-	-	-	-	-	-	-
Other industry	-	-	-	-	-	-	-	-	-
Res, comm & pub serv[1]	-	-	-	-	-	-	-	-	-
Non-energy use	-	-	-	-	-	-	-	-	-
Brown coal/lignite	**2.62**	**2.57**	**2.09**	**0.36**	**0.04**	**0.04**	**0.05**	**-1.85**	**-19.63**
Total electricity and heat	2.34	2.36	1.84	0.27	-	-	-	-1.97	-
Main activity producers	*1.17*	*0.98*	*0.59*	*0.27*	*-*	*-*	*-*	*-5.51*	*-*
Autoproducers	*1.17*	*1.38*	*1.25*	*-*	*-*	*-*	*-*	*0.55*	*-*
Patent fuel/BKB plants	-	-	-	-	-	-	-	-	-
Coke ovens	-	-	-	-	-	-	-	-	-
Gas manufacture	-	-	-	-	-	-	-	-	-
Industry sector	0.20	0.16	0.23	0.05	0.04	0.04	0.05	1.17	-8.48
Iron and steel	-	-	-	-	-	-	-	-	-
Chemical	*0.01*	*0.01*	*0.09*	*-*	*-*	*-*	*-*	*20.31*	*-*
Non-metallic minerals	*0.00*	*0.00*	*-*	*-*	*-*	*-*	*-*	*-*	*-*
Paper, pulp and print	-	-	-	-	-	-	-	-	-
Other industry	*0.19*	*0.15*	*0.14*	*0.05*	*0.04*	*0.04*	*0.05*	*-2.59*	*-5.69*
Res, comm & pub serv[1]	0.07	0.05	0.08	0.04	-	-	-	0.80	-
Non-energy use	-	-	-	-	-	-	-	-	-

Source: *IEA/OECD Energy Statistics of OECD Countries*

(1) Residential, commercial and public services.

* Please refer to notes in *Principles and Definitions*.

France

7. FUEL PRICES TO END USERS*

	1978[1]	1980	1990	2000	2004	2005	2006	2007	2008
				(US dollars / tce)					
For electricity generation									
Steam coal	..	56.31	57.35	41.98	71.64	84.41	82.15	94.53	153.44
Heavy fuel oil	..	..	..	..	..	..	..	..	..
Natural gas	..	..	..	..	..	..	..	..	..
For industry									
Steam coal	61.82	107.40	128.20	105.48	..	..	..	..	..
Coking coal	51.84	58.46	62.62	45.43	72.00	106.19	127.95	119.55	207.93
High sulphur fuel oil	66.80	131.05	97.93	128.55	155.40	217.27	257.57	292.82	398.94
Low sulphur fuel oil	..	..	..	140.36	166.92	232.51	267.44	302.85	421.73
Natural gas	76.57	137.04	128.49	138.50	203.92	256.81	320.57	322.09	472.33
				(Euro / unit)[2]					
For electricity generation									
Steam coal	..	32.17	42.23	40.41	51.16	60.28	58.09	61.22	93.11
Heavy fuel oil	..	..	..	..	..	..	..	..	..
Natural gas	..	..	..	..	..	..	..	..	..
For industry									
Steam coal	37.73	61.36	94.40	101.53	..	..	..	..	..
Coking coal	37.12	39.18	54.09	51.29	60.32	88.96	106.13	90.82	148.02
High sulphur fuel oil	64.01	117.55	113.21	194.27	174.25	243.61	285.93	297.74	380.07
Low sulphur fuel oil	..	..	..	212.12	187.16	260.70	296.89	307.93	401.79
Natural gas	67.73	113.47	137.11	193.21	211.06	265.79	328.49	302.30	415.38

Source: *IEA/OECD Energy Prices & Taxes*

(1) Earliest year for which split by coal type is available.

(2) For steam coal, coking coal and heavy fuel oil per metric tonne; for natural gas per 10^7 kilocalories GCV.

* Please refer to notes in *Principles and Definitions*.

8. COAL TRADE BY TYPE OF COAL*

(Mtce)

	1973	1980	1990	2000	2004	2005	2006	2007	2008e
Total imports	**15.42**	**30.11**	**19.50**	**19.34**	**19.64**	**20.18**	**20.56**	**18.58**	**21.41**
Hard coal	11.67	27.00	18.22	17.84	18.31	18.57	19.01	17.41	19.99
Coking coal	*..*	*10.75*	*8.17*	*6.81*	*7.07*	*6.51*	*6.24*	*5.58*	*7.53*
Steam coal	*..*	*16.25*	*10.05*	*11.03*	*11.23*	*12.06*	*12.77*	*11.82*	*12.46*
Brown coal / lignite	-	0.00	0.04	0.03	0.02	0.02	0.02	0.03	0.04
Peat	-	-	-	-	-	-	-	-	-
Coal products[1]	3.75	3.11	1.24	1.47	1.31	1.59	1.53	1.14	1.37
Total exports	**1.86**	**1.22**	**0.92**	**0.77**	**0.90**	**0.88**	**0.80**	**0.96**	**1.12**
Hard coal	0.82	0.37	0.53	0.08	0.09	0.27	0.13	0.20	0.17
Coking coal	*..*	-	-	-	*0.05*	*0.03*	*0.02*	*0.05*	*0.02*
Steam coal	*..*	*0.37*	*0.53*	*0.08*	*0.04*	*0.23*	*0.11*	*0.15*	*0.15*
Brown coal / lignite	0.01	0.00	-	-	-	-	-	-	-
Peat	-	-	-	-	-	-	-	-	-
Coal products[1]	1.03	0.84	0.39	0.69	0.81	0.61	0.67	0.76	0.95

Source: *IEA/OECD Energy Balances of OECD Countries, IEA/OECD Energy Statistics of OECD Countries*

(1) Coal products includes products derived from coal, for example: coke, coal tar, briquettes, patent fuels.

* Please refer to notes in *Principles and Definitions*.

France

9. HARD COAL IMPORTS BY ORIGIN*

(thousand tonnes)

	1978[1]	1980	1990	2000	2004	2005	2006	2007	2008e
Hard Coal	**23441**	**29410**	**19389**	**18980**	**19460**	**19851**	**20391**	**18693**	**21285**
Coking Coal	**8316**	**10456**	**7848**	**6543**	**6798**	**6255**	**5995**	**5364**	**7239**
Australia	987	1093	2071	2818	4047	3800	3896	3247	4985
Canada	-	18	637	577	365	421	371	468	378
Czech Republic	-	-	-	-	-	-	-	-	-
Germany	4364	4225	817	-	-	263	-	-	-
Poland	1311	816	254	182	340	3	1	-	-
United Kingdom	1	18	-	-	-	-	-	-	-
United States	1462	3742	4019	2667	1992	1627	1670	1546	1461
Other OECD	-	-	50	1	15	80	26	25	19
China, People's Rep.	-	-	-	-	-	-	-	-	38
Colombia	-	-	-	130	-	61	29	-	-
Indonesia	-	-	-	-	-	-	-	-	-
South Africa	191	544	-	154	13	-	-	-	-
Former USSR[2]	-	-	-	-	-	-	-	-	-
Russia[3]	-	-	-	-	*24*	-	-	*78*	*198*
Other Former USSR[3]	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	14	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	55
Non-specified/other	-	-	-	-	2	-	2	-	105
Steam coal	**15125**	**18954**	**11541**	**12437**	**12662**	**13596**	**14396**	**13329**	**14046**
Australia	785	557	1480	1022	1968	1509	1829	2011	1334
Canada	-	-	50	-	-	70	103	115	166
Czech Republic	-	-	-	-	-	-	-	-	-
Germany	2217	1185	718	98	55	55	68	47	56
Poland	3441	2634	141	881	493	1451	927	375	-
United Kingdom	891	1442	311	61	55	35	33	67	106
United States	36	3600	2586	425	218	301	330	313	2611
Other OECD	98	10	222	1125	492	1149	1224	1872	2186
China, People's Rep.	-	83	1776	524	274	15	17	263	129
Colombia	-	-	2033	1043	2852	2455	2221	1800	1956
Indonesia	-	-	-	6	610	245	584	36	2
South Africa	6643	8596	863	5694	3932	4225	4239	3971	3317
Former USSR[2]	853	780	-	-	-	-	-	-	-
Russia[3]	-	-	*777*	*383*	*740*	*905*	*1124*	*1031*	*1628*
Other Former USSR[3]	-	-	-	-	*74*	-	*35*	-	*10*
Venezuela	-	-	560	935	450	542	460	477	435
Vietnam	-	-	-	140	231	100	153	157	66
Non-specified/other	161	67	24	100	218	539	1049	794	44

Source: IEA/OECD Coal Statistics

(1) Earliest year for which split by coal type is available.

(2) If no detail.

(3) Data for former republics are not available separately for some OECD member countries.

* Please refer to notes in *Principles and Definitions*.

France

11. STEAM COAL EXPORTS BY DESTINATION*

(thousand tonnes)

	1978[1]	1980	1990	2000	2004	2005	2006	2007	2008e
Total Exports	**449**	**430**	**585**	**89**	**49**	**262**	**123**	**165**	**164**
Exports to:									
Total OECD	**443**	**380**	**573**	**88**	**49**	**262**	**118**	**164**	**164**
Australia	-	-	-	-	-	-	-	-	-
Austria	-	10	8	-	-	-	-	-	-
Belgium	51	40	15	5	-	16	33	60	70
Canada	-	-	-	-	-	-	-	-	-
Czech Republic	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-
Germany	264	300	343	75	-	1	1	4	8
Greece	-	-	-	-	-	-	-	-	-
Hungary	-	-	-	-	-	-	-	-	-
Iceland	-	-	-	-	-	-	-	-	-
Ireland	-	-	36	-	-	-	-	-	-
Italy	8	-	56	-	-	-	-	1	-
Japan	-	-	-	-	-	-	-	-	-
Korea	-	-	-	-	-	-	-	-	-
Luxembourg	17	20	2	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	1	-	-	-	-	-
New Zealand	-	-	-	-	-	-	-	-	-
Norway	53	-	95	7	-	-	-	-	-
Poland	-	-	-	-	-	-	-	-	-
Portugal	-	-	1	-	-	-	-	-	-
Slovak Republic	-	-	-	-	-	-	-	-	-
Spain	-	-	10	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-
Switzerland	8	10	6	-	-	-	-	-	-
Turkey	42	-	-	-	-	-	-	-	-
United Kingdom	-	-	1	-	49	245	84	99	86
United States	-	-	-	-	-	-	-	-	-
Total Non-OECD	**1**	**-**	**11**	**-**	**-**	**-**	**-**	**-**	**-**
Brazil	-	-	-	-	-	-	-	-	-
Chinese Taipei	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-
Hong Kong, China	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-
Israel	-	-	-	-	-	-	-	-	-
Romania	-	-	-	-	-	-	-	-	-
Oth. Africa & Mid. East	-	-	11	-	-	-	-	-	-
Other Latin America	-	-	-	-	-	-	-	-	-
Other Asia & Oceania	-	-	-	-	-	-	-	-	-
Other Europe and FSU	1	-	-	-	-	-	-	-	-
Non-Specified/Other	**5**	**50**	**1**	**1**	**-**	**-**	**5**	**1**	**-**

Source: IEA/OECD Coal Statistics

(1) Earliest year for which split by coal type is available.

* Please refer to notes in *Principles and Definitions*.

France

12. COAL IMPORT VALUES BY ORIGIN*

(average unit value, CIF, US$/tonne)

	1988	1990	1995	2003	2004	2005	2006	2007	2008
Coking coal[1]	**54.95**	**65.14**	**61.82**	**62.05**	**75.46**	**109.69**	**133.48**	**124.63**	**212.51**
Imports from:									
Australia	53.97	65.23	60.65	59.70	68.13	115.61	136.73	125.44	230.00
Canada	57.16	64.81	62.14	59.71	76.85	117.56	140.74	134.95	186.97
Czech Republic	..	..	..	..	..	..	..	..	..
Poland	58.89	65.24	67.65	56.25	76.89	..	..	..	..
United States	55.33	64.95	62.68	67.73	86.10	107.04	121.01	116.61	169.04
China	..	64.53	52.07	..	..	..	..	..	258.16
Colombia	..	..	..	..	..	..	..	..	..
South Africa	48.51	66.18	53.98	52.36	33.73	..	..	..	..
Former USSR[2]	..	..	..	..	135.05	..	..	118.36	205.53
Steam coal[3]	**43.58**	**50.42**	**49.29**	**42.63**	**64.08**	**75.23**	**72.92**	**84.49**	**135.53**
Imports from:									
Australia	41.19	47.89	50.95	43.11	55.37	79.28	80.63	72.97	118.16
Canada	50.25	62.44	42.97	..	..	121.47	57.30	146.11	121.26
Czech Republic	..	..	..	..	..	..	..	..	..
Poland	48.40	46.61	34.06	31.86	76.61	83.83	157.73	163.83	..
United States	47.80	48.77	50.21	34.07	46.61	75.04	80.70	92.02	125.30
China	40.46	48.79	36.52	..	..	..	..	..	230.24
Colombia	39.19	49.99	46.98	45.37	65.24	77.69	81.95	84.63	126.77
South Africa	..	..	45.55	38.27	55.00	70.02	68.11	76.34	139.33
Former USSR[2]	41.72	44.72	47.86	41.68	75.88	71.20	68.26	77.92	142.92

Source: IEA/OECD Coal Statistics

Note: On occasion, shipment of extremely small quantities of high valued coal results in high import costs.

(1) Weighted average of individual countries using import volumes as weights. Prices exclude intra-EU trade.

(2) Former USSR until 1991, Russia starting in 1992.

(3) Bituminous steam coal only. Weighted average of individual countries using volumes as weights. Prices exclude intra-EU trade.

* Please refer to notes in *Principles and Definitions*.

Germany*

Chart 1: TPES by fuel (Mtce)

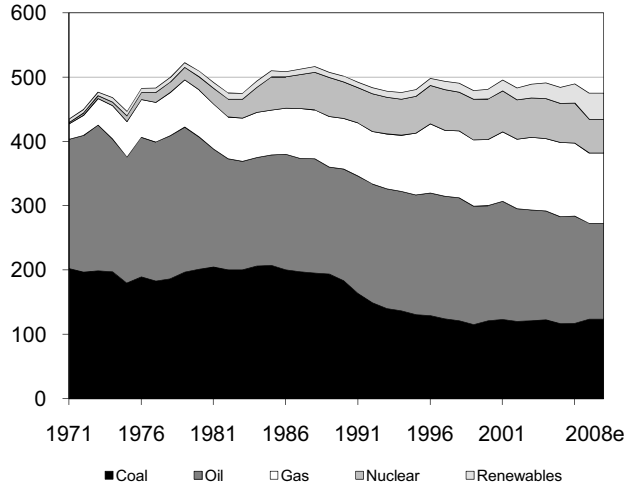


Chart 2: Coal supply indicators (1971 = 100)

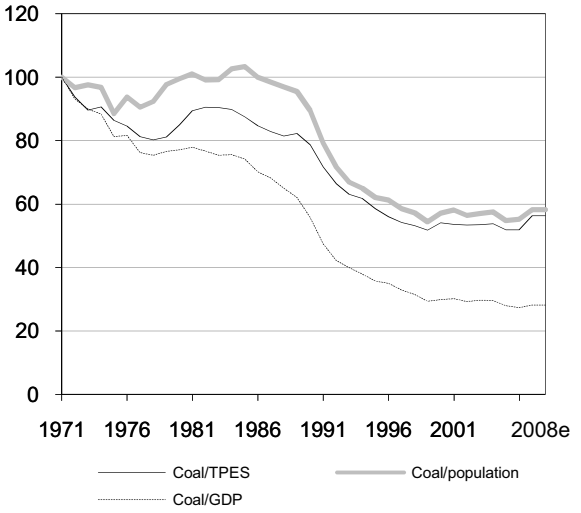


Chart 3: Primary coal supply (Mtce)

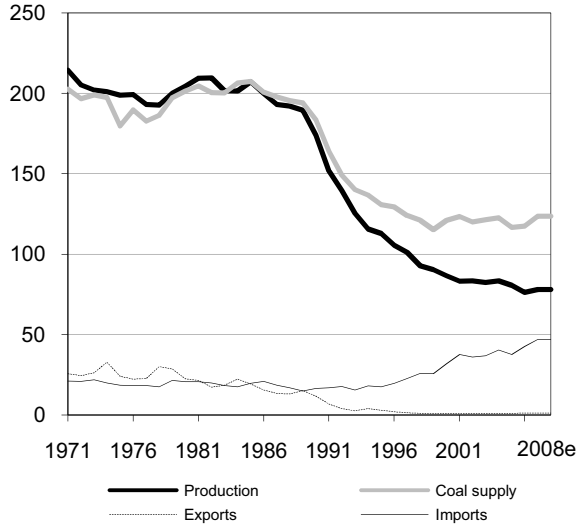


Chart 4: Coal consumption (Mtce)

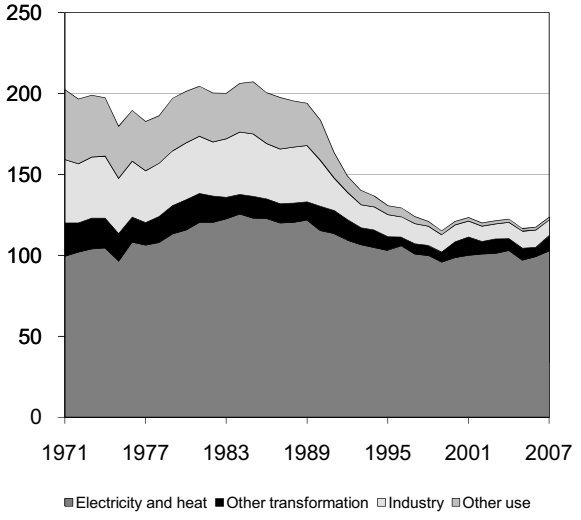


Chart 5: Electricity generation by fuel (TWh)

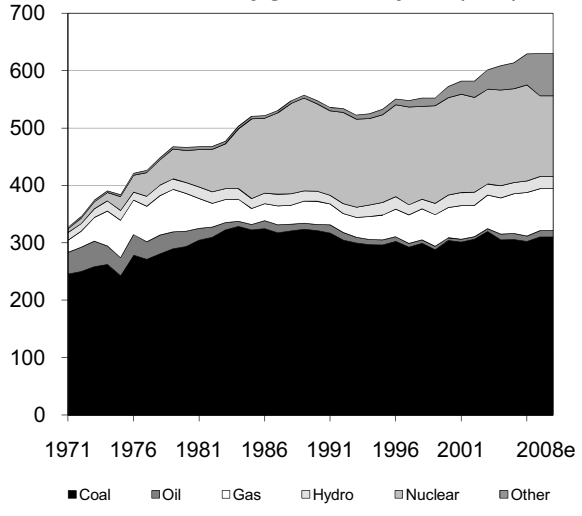
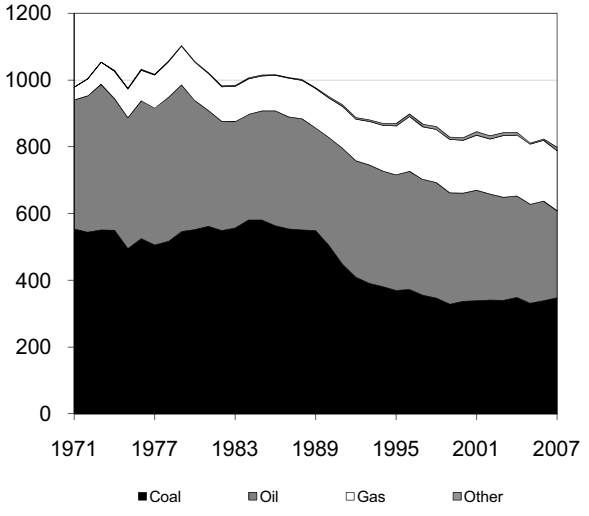


Chart 6: CO_2 emissions by fuel (Mt CO_2)



*Please refer to notes in *Principles and Definitions*. Peat is included in coal for all charts.

Germany

1. TOTAL PRIMARY ENERGY SUPPLY (TPES) BY FUEL*

	1973	1980	1990	2000	2006	2007	2008e	Average annual percent change 73-90	90-07
TPES (Mtce)	**478.14**	**510.25**	**502.01**	**481.84**	**487.48**	**473.22**	**478.34**	**0.29**	**-0.35**
Coal and peat	199.10	201.47	183.63	121.18	117.52	123.77	117.26	-0.47	-2.29
Oil	226.71	205.52	173.78	179.14	166.52	149.14	158.00	-1.55	-0.90
Gas	40.96	73.12	78.56	102.62	113.53	109.46	109.92	3.91	1.97
Comb. renew/waste	3.57	6.22	6.85	11.23	22.56	31.99	31.45	3.90	9.49
Nuclear	4.51	20.71	56.91	63.14	62.27	52.32	55.28	16.09	-0.49
Hydro	1.87	2.34	2.14	2.67	2.45	2.57	2.57	0.79	1.08
Geothermal	-	-	0.01	0.18	0.26	0.30	0.36	-	22.24
Solar, wind, tide	-	-	0.02	1.31	4.45	5.71	5.96	-	37.72
Net electricity trade(1)	1.42	0.88	0.11	0.38	-2.09	-2.03	-2.46	-13.78	-
Heat(2)	-	-	-0.00	-0.00	-0.01	-0.01	-0.01	-	1.14

Source: *IEA/OECD Energy Balances of OECD Countries*

(1) Net trade between OECD and non-OECD countries.

(2) Ambient heat from heat pumps used in the transformation sector.

2. ENERGY SUPPLY, GDP AND POPULATION*

	1973	1980	1990	2000	2006	2007	2008e	Average annual percent change 73-90	90-07
GDP (2000 bil. US$)	1039	1226	1543	1900	2016	2065	2092	2.36	1.73
TPES/GDP(1)	0.46	0.42	0.33	0.25	0.24	0.23	0.23	-2.02	-2.04
Population (millions)	79.0	78.3	79.4	82.2	82.4	82.3	82.3	0.03	0.21
TPES/population(1)	6.06	6.52	6.33	5.86	5.92	5.75	5.81	0.26	-0.56
TPES/GDP(2)	181.5	164.1	128.3	100.0	95.4	90.4	90.2	-2.02	-2.04
Coal and peat supply/GDP(2)	300.5	257.7	186.6	100.0	91.4	94.0	87.9	-2.77	-3.95
Elec. consumption/GDP(2)	118.4	125.6	115.9	100.0	102.5	100.4	..	-0.13	-0.84
Elec. generation (TWh)	374	466	548	572	629	630	627	2.26	0.82
Industrial production(2)	70.1	75.6	91.3	100.0	113.1	120.9	121.2	1.57	1.67

Source: *IEA/OECD Energy Balances of OECD Countries* , *OECD Main Economic Indicators*

(1) TPES/GDP in units of tce/2000 thousand US$, TPES/population in units of tce/capita.

(2) As index, 2000 = 100

3. COAL AND PEAT PRODUCTION BY TYPE*

	1978(1)	1980	1990	2000	2006	2007	2008e	Average annual percent change 78-90	90-07
Mtce:									
Coking coal	51.64	55.43	44.06	18.66	12.98	13.61	10.44	-1.32	-6.68
Steam coal	34.97	35.43	27.23	15.86	9.02	8.84	7.34	-2.06	-6.40
Brown coal	106.08	113.63	102.55	52.05	54.22	55.54	53.97	-0.28	-3.54
Peat	-	-	0.12	0.04	0.03	-	-	-	-
Mt:									
Coking coal	52.24	56.04	44.58	18.86	13.11	13.75	10.55	-1.31	-6.68
Steam coal	37.95	38.46	31.98	18.51	10.65	10.43	8.59	-1.42	-6.38
Brown coal	377.89	389.73	357.47	167.69	176.32	180.41	175.31	-0.46	-3.94
Peat	-	-	0.43	0.15	0.10	-	-	-	-

Source: *IEA/OECD Energy Balances of OECD Countries, IEA/OECD Energy Statistics of OECD Countries*

(1) Earliest year for which split by coal type is available.

* Please refer to notes in *Principles and Definitions* .

Germany

4. FINAL CONSUMPTION OF ENERGY BY FUEL*

(Mtce)

	1973	1980	1990	2000	2005	2006	2007	Average annual percent change 73-90	90-07
TFC[1]	**345.30**	**355.23**	**344.27**	**331.53**	**346.68**	**351.78**	**333.07**	**-0.02**	**-0.19**
Coal and peat	75.92	66.96	53.23	12.77	12.16	12.42	11.35	-2.07	-8.69
Oil	190.42	175.26	159.16	163.81	148.55	149.72	132.60	-1.05	-1.07
Gas	30.18	51.16	58.62	78.74	84.70	85.48	84.10	3.98	2.15
Comb. renew/wastes	2.50	2.72	4.25	6.72	11.11	13.50	14.86	3.17	7.65
Geothermal	-	-	0.01	0.18	0.18	0.22	0.26	-	21.23
Solar, wind, tide	-	-	0.02	0.16	0.35	0.40	0.45	-	21.74
Electricity	38.44	48.14	55.91	59.40	64.00	64.60	64.79	2.23	0.87
Heat	7.84	10.99	13.07	9.76	25.62	25.43	24.67	3.05	3.81
of which:									
Total industry	**126.06**	**112.62**	**94.52**	**73.33**	**82.15**	**81.90**	**83.32**	**-1.68**	**-0.74**
Coal and peat	37.81	35.06	28.34	10.54	10.58	10.64	9.65	-1.68	-6.14
Oil	46.15	25.59	10.10	7.35	5.40	5.55	4.97	-8.55	-4.08
Gas	17.87	24.59	24.91	27.52	24.64	24.65	26.10	1.97	0.27
Comb. renew/wastes	0.04	0.04	1.13	0.65	2.04	1.98	2.06	21.74	3.58
Geothermal	-	-	-	-	-	-	-	-	-
Solar, wind, tide	-	-	-	-	-	-	-	-	-
Electricity	21.91	24.52	26.60	26.00	28.42	28.18	29.82	1.15	0.68
Heat	2.27	2.82	3.44	1.29	11.08	10.90	10.72	2.47	6.91
Total transport	**51.61**	**63.14**	**78.08**	**85.81**	**79.29**	**80.47**	**78.78**	**2.47**	**0.05**
Coal and peat	2.46	0.36	0.02	0.01	-	-	-	-24.22	-
Oil	47.94	61.23	76.38	83.52	74.52	73.52	71.08	2.78	-0.42
Gas	-	0.09	-	-	-	-	-	-	-
Comb. renew/wastes	-	-	-	0.32	2.78	4.95	5.71	-	-
Electricity	1.21	1.47	1.68	1.95	1.99	2.00	2.00	1.94	1.04
Residential	**86.85**	**78.39**	**89.96**	**93.14**	**90.91**	**92.54**	**81.85**	**0.21**	**-0.55**
Coal and peat	20.44	17.27	13.89	1.31	0.67	0.86	0.78	-2.25	-15.56
Oil	48.19	35.76	25.84	27.83	24.62	25.98	15.84	-3.60	-2.84
Gas	1.59	1.79	20.63	33.48 e	41.46	41.15	40.22	16.26	4.01
Comb. renew/wastes	1.41	1.28	3.11	5.75 e	6.29	6.57	7.10	4.77	4.96
Geothermal	-	-	0.01	0.18	0.18	0.22	0.26	-	21.23
Solar, wind, tide	-	-	0.01 e	0.08 e	0.33	0.39	0.43	-	24.58
Electricity	9.65	14.13	16.84	16.03	17.36	17.38	17.21	3.33	0.13
Heat	5.57	8.17	9.63	8.47 e	-	-	-	3.27	-
Comm & public services	**39.17**	**40.70**	**40.51**	**33.25**	**35.49**	**36.74**	**31.11**	**0.20**	**-1.54**
Coal and peat	9.31	9.73	8.11	0.44	0.56	0.51	0.35	-0.81	-16.85
Oil	22.98	21.38	15.04	10.02	9.25	9.77	6.50	-2.46	-4.81
Gas	0.90	1.03	7.45	8.29 e	10.44	10.44	9.52	13.21	1.45
Comb. renew/waste	1.05	1.41	-	-	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-	-	-
Solar, wind, tide	-	-	-	-	0.02	0.02	0.02	-	-
Electricity	4.92	7.15	9.91	14.49	15.22	16.01	14.72	4.20	2.35
Heat	-	-	-	-	-	-	-	-	-
Non-energy use	**24.61**	**32.80**	**32.78**	**35.81**	**35.71**	**35.95**	**35.34**	**1.70**	**0.44**
Coal and peat	3.21	2.22	1.20	0.39	0.32	0.38	0.53	-5.62	-4.71
Oil	20.27	26.76	28.36	32.35	32.33	32.50	31.83	2.00	0.68
Gas	1.14	3.82	3.22	3.07	3.07	3.07	2.98	6.32	-0.46

Source: *IEA/OECD Energy Balances of OECD Countries*

(1) Total Final Consumption (TFC) excludes use in transformation and energy sectors.

* Please refer to notes in *Principles and Definitions*.

Germany

5. COAL BALANCE*

(Mtce)

	1973	1980	1990	2000	2006	2007	2008e	Average annual percent change 73-90	90-07
Production	202.0	204.5	174.0	86.6	76.2	78.0	71.8	-0.9	-4.6
Imports	21.8	20.6	16.4	31.7	42.5	46.9	46.4	-1.6	6.4
Exports	-26.1	-22.5	-11.7	-0.8	-1.0	-1.1	-1.5	-4.6	-12.8
Stock changes	1.5	-1.1	4.9	3.6	-0.3	0.0	0.6	x	x
Primary supply	**199.1**	**201.5**	**183.6**	**121.2**	**117.5**	**123.8**	**117.3**	**-0.5**	**-2.3**
Statistical difference	**0.4**	**0.2**	**0.6**	**0.4**	**2.5**	**-0.5**	**..**	**x**	**x**
Total transformation	**-115.6 e**	**-129.1 e**	**-127.3 e**	**-106.6 e**	**-105.6 e**	**-110.1 e**	**..**	**0.6**	**-0.9**
Electricity and heat gen.	-104.1	-115.8	-115.4 e	-98.8 e	-99.4	-102.9	..	0.6	-0.7
Main activity producers (1)	*-99.8*	*-94.1*	*-98.5 e*	*-91.5 e*	*-92.9*	*-95.1*	*..*	*-0.1*	*-0.2*
Autoproducers	*-4.3*	*-21.6*	*-16.9 e*	*-7.3*	*-6.5*	*-7.7*	*..*	*8.4*	*-4.5*
Gas works	-3.5	-2.1	-1.5	-	-	-	..	-5.0	-
Coal transformation(2)	-8.0 e	-11.2 e	-10.5 e	-7.8 e	-6.2 e	-7.2 e	..	1.6	-2.2
BKB plants	*1.9*	*1.2*	*-1.4*	*-0.2*	*-0.1*	*-0.1*	*..*	*-*	*-13.6*
Blast furnaces	*-9.2 e*	*-10.1 e*	*-8.0 e*	*-7.9 e*	*-6.1 e*	*-6.9 e*	*..*	*-0.8*	*-0.8*
Coke ovens	*-0.9*	*-2.5*	*-1.2*	*0.2*	*0.0*	*-0.2*	*..*	*1.5*	*-11.1*
Patent fuel plants	*0.3*	*0.2*	*0.2*	*0.0*	*0.0*	*0.0*	*..*	*-3.6*	*-17.6*
Other transformation(3)	-	-	-	-	-	-	..	-	-
Own use	**-6.6**	**-4.9**	**-3.4**	**-1.7**	**-1.4**	**-1.4**	**..**	**-3.9**	**-4.9**
Distribution losses	**-1.3**	**-0.7**	**-0.3**	**-0.5**	**-0.6**	**-0.4**	**..**	**x**	**x**
Final consumption(4)	**75.9**	**67.0**	**53.2**	**12.8**	**12.4**	**11.3**	**..**	**-2.1**	**-8.7**
Industry sector(5)	37.8	35.1	28.3	10.5	10.6	9.6	..	-1.7	-6.1
Iron and steel	*13.3 e*	*10.4 e*	*7.8 e*	*5.6 e*	*6.4 e*	*6.3 e*	*..*	*-3.1*	*-1.2*
Chemical	*9.2*	*8.3*	*6.3*	*0.6*	*1.0*	*0.2*	*..*	*-2.2*	*-17.8*
Non-metallic minerals	*1.6*	*2.9*	*3.3*	*2.8*	*1.9*	*1.9*	*..*	*4.5*	*-3.1*
Paper, pulp and print	*1.2*	*1.3*	*1.3*	*0.5*	*0.6*	*0.5*	*..*	*0.3*	*-5.3*
Transport sector(6)	2.5	0.4	0.0	0.0	-	-	..	-24.2	-
Other sectors(7)	32.4	29.3	23.7	1.8	1.4	1.2	..	-1.8	-16.2
Comm. and pub. services	*9.3*	*9.7*	*8.1*	*0.4*	*0.5*	*0.4*	*..*	*-0.8*	*-16.9*
Residential	*20.4*	*17.3*	*13.9*	*1.3*	*0.9*	*0.8*	*..*	*-2.2*	*-15.6*
Non-energy use	3.2	2.2	1.2	0.4	0.4	0.5	..	-5.6	-4.7

Source: *IEA/OECD Energy Balances of OECD Countries*

(1) Main activity electricity and heat generation includes district heating.

(2) Coal transformation refers to the transformation of coal and peat to secondary and tertiary products (mainly coke, briquettes, coke oven gas and blast furnace gas).

(3) Other transformation includes liquefaction and non-specified transformation.

(4) Final Consumption includes non-energy use and energy use (industry, transport and other sectors).

(5) Please refer to notes in *Principles and Definitions* for detailed explanation.

(6) Transport sector includes rail and inland waterways.

(7) Other sectors includes commercial and public services, agriculture, and residential.

* "Coal" refers to all types of coal, primary (anthracite, coking coal, other bituminous coal, sub-bituminous coal, lignite/brown coal, peat) and derived fuels (including patent fuel, BKB/peat briquettes, coke oven coke, gas coke, coal tar, coke oven gas, gas works gas, blast furnace gas and oxygen steel furnace gas). Quantities have been converted to Mtce using calorific values reported by the respective countries. Please refer to notes in *Principles and Definitions*.

Germany

6. USE OF COAL FOR SELECTED END-USES*

(million tonnes)

	1978	1980	1990	2000	2005	2006	2007	Average annual percent change 78-90	90-07
Steam coal	**45.08**	**46.09**	**44.75**	**44.50**	**41.76**	**43.85**	**47.10**	**-0.06**	**0.30**
Total electricity and heat	34.59	34.40	33.78	38.77	35.38	38.63	39.78	-0.20	0.97
Main activity producers	*21.05*	*21.47*	*26.06*	*35.67*	*32.74*	*35.77*	*36.12*	*1.79*	*1.94*
Autoproducers	*13.55*	*12.93*	*7.73*	*3.10*	*2.65*	*2.86*	*3.66*	*-4.57*	*-4.30*
Patent fuel/BKB plants	1.46	1.43	0.78	0.15	0.09	0.09	0.09	-5.14	-12.02
Coke ovens	-	-	-	-	-	-	-	-	-
Blast furnace inputs	-	-	1.73	2.53	2.77	2.98	3.12	-	3.52
Gas manufacture	-	-	-	-	-	-	-	-	-
Industry sector	5.15	6.56	6.53	2.44	3.34	3.33	2.45	2.00	-5.61
Iron and steel	*0.25*	*0.13*	*-*	*0.21*	*1.41*	*1.61*	*1.26*	*-*	*-*
Chemical	*1.88*	*2.38*	*2.57*	*0.27*	*0.70*	*0.68*	*0.02*	*2.66*	*-24.64*
Non-metallic minerals	*0.48*	*0.95*	*1.64*	*1.35*	*0.34*	*0.33*	*0.50*	*10.75*	*-6.69*
Paper, pulp and print	*0.28*	*0.34*	*0.56*	*0.43*	*0.47*	*0.51*	*0.48*	*5.92*	*-0.91*
Other industry	*2.26*	*2.75*	*1.76*	*0.19*	*0.43*	*0.21*	*0.18*	*-2.05*	*-12.64*
Res, comm & pub serv(1)	2.00	2.15	0.71	0.29	0.57	0.49	0.56	-8.24	-1.37
Non-energy use	-	-	0.01	-	0.06	0.05	0.06	-	12.01
Coking coal	**41.88**	**50.29**	**42.22**	**24.46**	**22.19**	**21.69**	**23.00**	**0.07**	**-3.51**
Total electricity and heat	6.58	10.68	18.12	13.04	12.02	11.32	12.56	8.81	-2.13
Main activity producers	*5.70*	*9.49*	*14.24*	*10.17*	*10.73*	*9.95*	*11.40*	*7.93*	*-1.30*
Autoproducers	*0.88*	*1.19*	*3.88*	*2.87*	*1.28*	*1.38*	*1.16*	*13.17*	*-6.85*
Patent fuel/BKB plants	-	-	-	-	-	-	-	-	-
Coke ovens	34.30	38.74	24.09	11.42	10.18	10.37	10.44	-2.90	-4.80
Blast furnace inputs	-	-	-	-	-	-	-	-	-
Gas manufacture	1.01	0.87	-	-	-	-	-	-	-
Industry sector	-	-	-	-	-	-	-	-	-
Iron and steel	-	-	-	-	-	-	-	-	-
Chemical	-	-	-	-	-	-	-	-	-
Non-metallic minerals	-	-	-	-	-	-	-	-	-
Paper, pulp and print	-	-	-	-	-	-	-	-	-
Other industry	-	-	-	-	-	-	-	-	-
Res, comm & pub serv(1)	-	-	-	-	-	-	-	-	-
Non-energy use	-	-	-	-	-	-	-	-	-
Brown coal/lignite	**383.17**	**391.75**	**364.05**	**169.94**	**177.89**	**176.38**	**180.49**	**-0.43**	**-4.04**
Total electricity and heat	224.46	227.69	227.90	157.39	165.28	162.94	167.36	0.13	-1.80
Main activity producers	*210.89*	*211.91*	*209.11*	*155.39*	*163.32*	*161.12*	*165.37*	*-0.07*	*-1.37*
Autoproducers	*13.57*	*15.78*	*18.79*	*2.00*	*1.95*	*1.83*	*1.99*	*2.75*	*-12.36*
Patent fuel/BKB plants	130.03	134.86	104.92	11.36	11.31	11.97	11.55	-1.77	-12.17
Coke ovens	-	-	-	-	-	-	-	-	-
Gas manufacture	0.02	0.17	0.14	-	-	-	-	18.25	-
Industry sector	20.55	21.77	20.36	0.45	0.37	0.56	0.56	-0.08	-19.04
Iron and steel	*0.24*	*0.36*	*0.76*	*-*	*-*	*-*	*0.01*	*10.07*	*-22.48*
Chemical	*10.63*	*11.28*	*7.55*	*0.31*	*0.18*	*0.15*	*0.07*	*-2.81*	*-24.07*
Non-metallic minerals	*0.13*	*0.15*	*0.49*	*0.00*	*0.01*	*0.01*	*-*	*11.48*	*-*
Paper, pulp and print	*0.88*	*0.88*	*0.60*	*0.00*	*0.03*	*-*	*-*	*-3.20*	*-*
Other industry	*8.66*	*9.10*	*10.96*	*0.13*	*0.15*	*0.40*	*0.48*	*1.98*	*-16.79*
Res, comm & pub serv(1)	2.36	4.25	7.87	0.05	0.02	-	-	10.58	-
Non-energy use	-	-	-	0.02	0.04	0.04	0.04	-	-

Source: *IEA/OECD Energy Statistics of OECD Countries*

(1) Residential, commercial and public services.

* Please refer to notes in *Principles and Definitions* .

Germany

7. FUEL PRICES TO END USERS*

	1978[1]	1980	1990	2000	2004	2005	2006	2007	2008
				(US dollars / tce)					
For electricity generation									
Steam coal	83.97	100.08	141.95	42.94	70.87	80.73	78.92	91.38	154.47
Heavy fuel oil	74.14	141.13	104.43	119.49	144.45	205.66	252.91	266.07	408.65
Natural gas	60.70	98.58	122.96	119.34	..	..	..	..	..
For industry									
Steam coal	98.52	120.31	185.76	..	..	..	..	..	..
Coking coal	62.91	71.78	63.02	c	c	c	c	c	c
High sulphur fuel oil	74.07	133.23	102.27	..	..	..	..	..	..
Low sulphur fuel oil	..	..	..	123.70	155.10	216.35	265.21	281.38	422.75
Natural gas	83.25	122.13	145.88	146.16	..	..	..	..	..
				(Euro / unit)[2]					
For electricity generation									
Steam coal	85.18	91.83	115.81	46.02	56.35	64.19	62.13	65.89	104.36
Heavy fuel oil	106.60	183.55	120.76	181.50	162.80	231.78	282.20	271.93	391.33
Natural gas	80.15	117.75	130.58	166.48	..	..	..	..	..
For industry									
Steam coal	101.18	111.77	153.44	..	..	..	..	..	..
Coking coal	64.15	66.21	51.68	c	c	c	c	c	c
High sulphur fuel oil	106.50	173.28	118.26	..	..	..	..	..	..
Low sulphur fuel oil	..	..	..	187.90	174.80	243.83	295.93	287.58	404.83
Natural gas	109.93	145.87	154.92	203.90	..	..	..	..	..

Source: *IEA/OECD Energy Prices & Taxes*

(1) Earliest year for which split by coal type is available.

(2) For steam coal, coking coal and heavy fuel oil per metric tonne; for natural gas per 10^7 kilocalories GCV.

* Please refer to notes in *Principles and Definitions*.

8. COAL TRADE BY TYPE OF COAL*

(Mtce)

	1973	1980	1990	2000	2004	2005	2006	2007	2008e
Total imports	**21.76**	**20.63**	**16.43**	**31.74**	**40.39**	**37.64**	**42.54**	**46.91**	**46.44**
Hard coal	14.76	15.09	12.43	24.84	36.00	33.86	38.81	42.23	42.10
Coking coal	*..*	*2.99*	*1.69*	*4.56*	*7.09*	*7.36*	*8.98*	*9.53*	*9.16*
Steam coal	*..*	*12.10*	*10.75*	*20.28*	*28.91*	*26.50*	*29.83*	*32.71*	*32.94*
Brown coal / lignite	1.74	0.62	1.06	0.91	0.00	0.00	0.02	0.01	0.01
Peat	-	-	-	-	-	-	-	-	-
Coal products[1]	5.27	4.92	2.94	5.99	4.39	3.78	3.71	4.67	4.34
Total exports	**26.14**	**22.53**	**11.65**	**0.80**	**0.82**	**0.91**	**1.00**	**1.15**	**1.54**
Hard coal	13.58	12.25	5.59	0.29	0.19	0.26	0.20	0.32	0.53
Coking coal	*..*	*8.52*	*3.96*	*0.00*	-	-	-	-	-
Steam coal	*..*	*3.73*	*1.63*	*0.28*	*0.19*	*0.26*	*0.20*	*0.32*	*0.53*
Brown coal / lignite	0.01	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.01
Peat	-	-	0.12	0.04	0.03	0.03	0.03	-	-
Coal products[1]	12.56	10.28	5.89	0.47	0.59	0.61	0.76	0.83	1.00

Source: *IEA/OECD Energy Balances of OECD Countries, IEA/OECD Energy Statistics of OECD Countries*

(1) Coal products includes products derived from coal, for example: coke, coal tar, briquettes, patent fuels.

* Please refer to notes in *Principles and Definitions*.

Germany

9. HARD COAL IMPORTS BY ORIGIN*

(thousand tonnes)

	1978[1]	1980	1990	2000	2004	2005	2006	2007	2008e
Hard Coal	**12865**	**16155**	**13580**	**27948**	**39536**	**37105**	**42132**	**46287**	**46123**
Coking Coal	**2435**	**3019**	**1706**	**4608**	**6875**	**7152**	**8692**	**9627**	**9255**
Australia	-	-	58	3414	3232	3403	3985	4778	3804
Canada	-	-	25	865	611	1485	1666	1663	1583
Czech Republic	-	-	28	-	25	-	2	-	-
Germany	-	-	-	-	-	-	-	-	-
Poland	-	-	116	50	-	832	962	1036	753
United Kingdom	48	48	-	-	-	-	-	-	-
United States	553	1050	48	257	534	1135	1640	1802	2400
Other OECD	89	158	2	19	-	-	10	-	-
China, People's Rep.	-	-	-	2	1881	-	-	-	-
Colombia	-	-	-	-	184	132	176	114	182
Indonesia	-	-	-	-	-	-	-	-	-
South Africa	-	-	-	1	147	90	64	150	488
Former USSR[2]	20	56	-	-	-	-	-	-	-
Russia[3]	-	-	*177*	-	*87*	*49*	*103*	*70*	*37*
Other Former USSR[3]	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-
Non-specified/other	1725	1707	1252	-	174	26	84	14	8
Steam coal	**10430**	**13136**	**11874**	**23340**	**32661**	**29953**	**33440**	**36660**	**36868**
Australia	763	578	1094	301	764	768	763	848	639
Canada	428	449	45	-	-	172	-	97	46
Czech Republic	152	146	248	1061	305	12	13	10	14
Germany	-	-	-	-	-	-	-	-	-
Poland	2041	1918	2583	6744	7482	7924	8224	5638	5091
United Kingdom	554	1354	284	37	4	-	-	-	-
United States	399	1218	689	432	432	132	418	1463	2973
Other OECD	637	822	637	1236	139	64	74	-	-
China, People's Rep.	21	209	8	67	-	-	-	-	-
Colombia	-	-	128	2719	3534	2937	4008	5809	4485
Indonesia	-	-	38	149	-	-	-	-	-
South Africa	1108	1492	4512	4577	9157	8215	8506	7539	8328
Former USSR[2]	96	143	-	-	-	-	-	-	-
Russia[3]	-	-	*157*	*937*	*5744*	*7497*	*8609*	*8907*	*9120*
Other Former USSR[3]	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	341	-	-	-	-	-
Vietnam	-	-	-	114	-	-	-	-	-
Non-specified/other	4231	4807	1451	4625	5100	2232	2825	6349	6172

Source: IEA/OECD Coal Statistics

(1) Earliest year for which split by coal type is available.

(2) If no detail.

(3) Data for former republics are not available separately for some OECD member countries.

* Please refer to notes in *Principles and Definitions*.

Germany

10. COKING COAL EXPORTS BY DESTINATION*

(thousand tonnes)

	1978[1]	1980	1990	2000	2004	2005	2006	2007	2008e
Total Exports	**13354**	**8617**	**4002**	**3**	**-**	**-**	**-**	**-**	**-**
Exports to:									
Total OECD	**12335**	**8287**	**3902**	**3**	**-**	**-**	**-**	**-**	**-**
Australia	-	-	-	-	-	-	-	-	-
Austria	213	73	-	1	-	-	-	-	-
Belgium	1897	786	717	1	-	-	-	-	-
Canada	-	-	-	-	-	-	-	-	-
Czech Republic	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-
France	5020	4198	1443	1	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-
Greece	-	-	-	-	-	-	-	-	-
Hungary	-	-	-	-	-	-	-	-	-
Iceland	-	-	-	-	-	-	-	-	-
Ireland	-	-	-	-	-	-	-	-	-
Italy	2480	2527	859	-	-	-	-	-	-
Japan	375	-	-	-	-	-	-	-	-
Korea	-	-	-	-	-	-	-	-	-
Luxembourg	286	1	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-
Netherlands	975	682	465	-	-	-	-	-	-
New Zealand	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-
Poland	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-
Slovak Republic	-	-	-	-	-	-	-	-	-
Spain	447	20	415	-	-	-	-	-	-
Sweden	234	-	-	-	-	-	-	-	-
Switzerland	18	-	3	-	-	-	-	-	-
Turkey	89	-	-	-	-	-	-	-	-
United Kingdom	198	-	-	-	-	-	-	-	-
United States	103	-	-	-	-	-	-	-	-
Total Non-OECD	**1019**	**330**	**100**	**-**	**-**	**-**	**-**	**-**	**-**
Brazil	15	-	-	-	-	-	-	-	-
Chinese Taipei	-	-	-	-	-	-	-	-	-
Egypt	-	115	100	-	-	-	-	-	-
Hong Kong, China	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-
Israel	-	-	-	-	-	-	-	-	-
Romania	-	-	-	-	-	-	-	-	-
Oth. Africa & Mid. East	520	166	-	-	-	-	-	-	-
Other Latin America	5	-	-	-	-	-	-	-	-
Other Asia & Oceania	-	-	-	-	-	-	-	-	-
Other Europe and FSU	479	49	-	-	-	-	-	-	-
Non-Specified/Other	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**

Source: IEA/OECD Coal Statistics

(1) Earliest year for which split by coal type is available.

* Please refer to notes in *Principles and Definitions*.

Germany

11. STEAM COAL EXPORTS BY DESTINATION*

(thousand tonnes)

	1978[1]	1980	1990	2000	2004	2005	2006	2007	2008e
Total Exports	**5737**	**4049**	**1510**	**276**	**184**	**255**	**199**	**310**	**519**
Exports to:									
Total OECD	**5381**	**3662**	**1186**	**275**	**170**	**246**	**191**	**301**	**509**
Australia	-	-	-	-	-	-	-	-	-
Austria	15	17	6	98	32	9	22	55	12
Belgium	2123	1380	678	82	62	78	71	72	110
Canada	-	-	-	-	-	-	-	-	-
Czech Republic	-	-	-	-	2	2	-	4	2
Denmark	944	257	3	-	-	1	-	-	-
Finland	-	-	-	-	-	-	-	-	4
France	1574	1056	81	75	66	74	87	111	328
Germany	-	-	-	-	-	-	-	-	-
Greece	-	-	-	1	-	-	-	-	-
Hungary	-	-	-	-	-	-	-	-	1
Iceland	-	-	-	-	-	-	-	-	-
Ireland	7	-	5	-	-	-	-	-	-
Italy	32	17	28	6	1	-	-	1	1
Japan	-	-	-	-	-	-	-	-	-
Korea	-	-	-	-	-	-	-	-	-
Luxembourg	14	74	1	-	-	-	-	-	2
Mexico	-	-	-	-	-	-	-	-	-
Netherlands	467	638	48	3	4	3	2	45	15
New Zealand	-	-	-	-	-	-	-	-	-
Norway	18	30	45	-	-	-	-	1	-
Poland	-	-	1	-	3	75	1	5	20
Portugal	6	-	-	-	-	-	-	-	-
Slovak Republic	-	-	-	-	-	2	-	-	1
Spain	-	-	42	3	-	-	-	-	8
Sweden	38	1	5	1	-	-	-	-	-
Switzerland	60	118	38	5	-	1	2	2	2
Turkey	32	-	-	-	-	-	-	-	-
United Kingdom	51	74	205	1	-	1	6	5	3
United States	-	-	-	-	-	-	-	-	-
Total Non-OECD	**53**	**90**	**324**	**-**	**10**	**7**	**1**	**8**	**5**
Brazil	-	12	5	-	-	-	-	-	-
Chinese Taipei	-	-	-	-	1	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-
Hong Kong, China	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-
Israel	-	-	-	-	-	5	1	-	-
Romania	-	-	-	-	-	-	-	-	-
Oth. Africa & Mid. East	-	4	3	-	-	-	-	3	3
Other Latin America	-	1	-	-	-	-	-	-	-
Other Asia & Oceania	-	-	-	-	-	1	-	2	-
Other Europe and FSU	53	73	316	-	9	1	-	3	2
Non-Specified/Other	**303**	**297**	**-**	**1**	**4**	**2**	**7**	**1**	**5**

Source: IEA/OECD Coal Statistics

(1) Earliest year for which split by coal type is available.

* Please refer to notes in *Principles and Definitions*.

Germany

12. COAL IMPORT VALUES BY ORIGIN*

(average unit value, CIF, US$/tonne)

	1988	1990	1995	2003	2004	2005	2006	2007	2008
Coking coal[1]	**53.79**	**63.76**	**67.24**	**64.00**	**74.74**	**113.48**	**135.72**	**133.45**	**182.72**
Imports from:									
Australia	54.60	55.97	67.69	61.65	69.21	104.77	140.44	132.39	217.74
Canada	49.91	60.33	62.38	59.49	72.40	110.62	153.08	137.52	180.05
Czech Republic	..	66.67	78.37	..	..	..	..	..	..
Poland	52.76	66.68	57.59	51.57	131.53	157.75	117.59	147.19	430.07
United States	61.21	60.93	73.55	51.76	80.27	120.72	126.39	131.66	151.09
China	..	..	..	..	..	538.07	..	..	172.05
Colombia	..	96.62	..	..	..	..	..	..	..
South Africa	..	..	..	..	..	..	..	..	..
Former USSR[2]	51.84	65.10	..	40.01	76.11	89.56	85.79	81.15	136.07
Steam coal[3]	**48.43**	**57.87**	**53.53**	**39.00**	**61.22**	**72.48**	**70.12**	**81.49**	**138.84**
Imports from:									
Australia	44.72	62.06	51.00	37.33	62.45	..	105.93	64.73	129.56
Canada	59.78	66.66	88.38	..	..	..	..	116.92	..
Czech Republic	53.15	63.93	64.04	47.93	67.98	85.54	89.31	90.41	152.10
Poland	47.32	62.25	46.86	39.00	67.44	73.74	73.56	91.16	154.54
United States	59.63	55.69	50.00	39.71	41.45	73.70	69.53	98.66	135.78
China	43.60	73.16	33.06	44.76	48.23	85.99	..	228.55	..
Colombia	34.92	61.65	45.24	38.18	64.48	69.49	68.68	76.67	152.34
South Africa	36.94	47.20	46.38	38.45	51.47	67.69	67.61	75.05	144.76
Former USSR[2]	34.09	47.72	41.35	38.34	63.89	68.13	65.11	76.21	139.38

Source: IEA/OECD Coal Statistics

Note: On occasion, shipment of extremely small quantities of high valued coal results in high import costs.

(1) Weighted average of individual countries using import volumes as weights. Prices exclude intra-EU trade.

(2) Former USSR until 1991, Russia starting in 1992.

(3) Bituminous steam coal only. Weighted average of individual countries using volumes as weights. Prices exclude intra-EU trade.

* Please refer to notes in *Principles and Definitions*.

Greece*

Chart 1: TPES by fuel (Mtce)

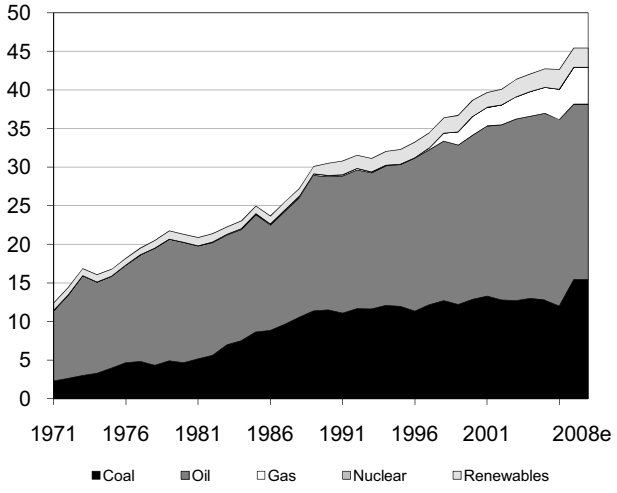


Chart 2: Coal supply indicators (1971 = 100)

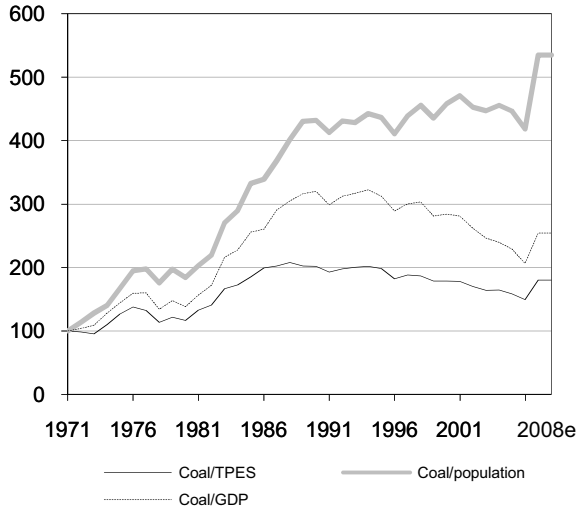


Chart 3: Primary coal supply (Mtce)

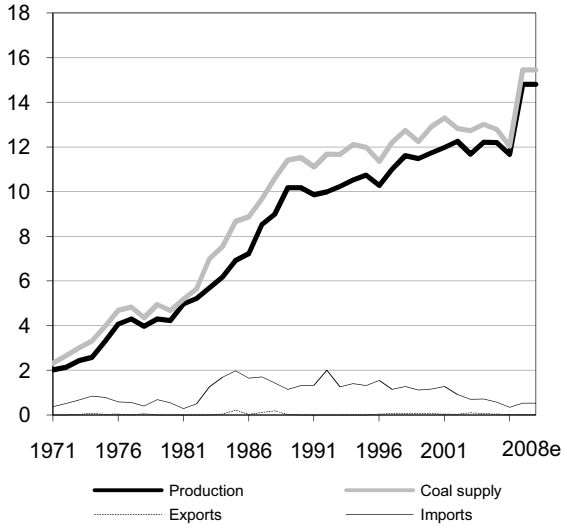


Chart 4: Coal consumption (Mtce)

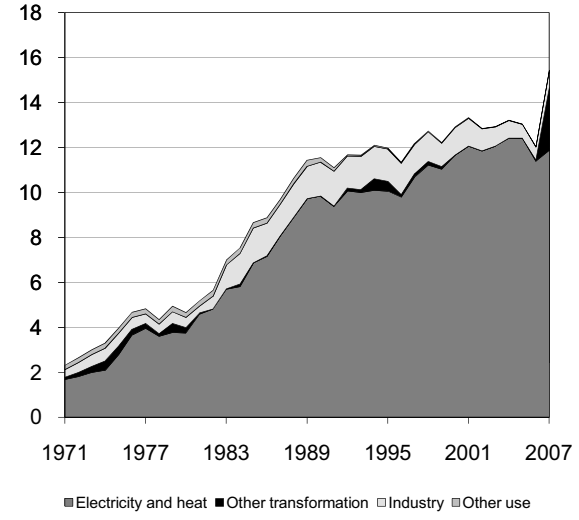


Chart 5: Electricity generation by fuel (TWh)

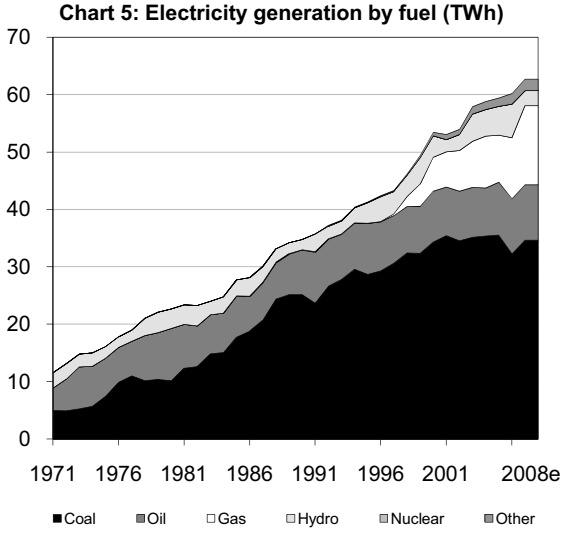
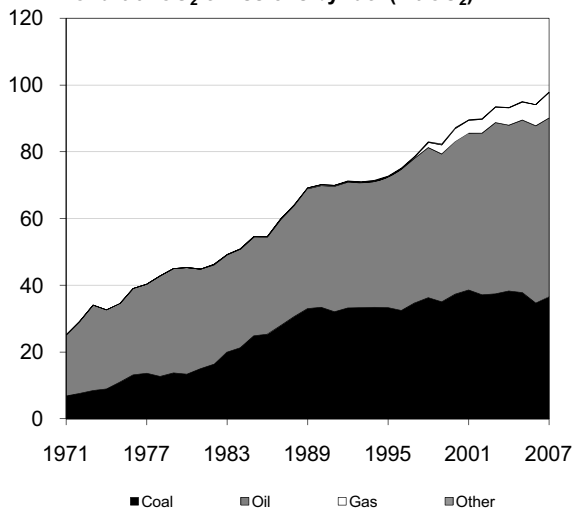


Chart 6: CO_2 emissions by fuel (Mt CO_2)



*Please refer to notes in *Principles and Definitions*. Peat is included in coal for all charts.

Greece

1. TOTAL PRIMARY ENERGY SUPPLY (TPES) BY FUEL*

	1973	1980	1990	2000	2006	2007	2008e	Average annual percent change 73-90	90-07
TPES (Mtce)	**16.87**	**21.40**	**30.63**	**38.69**	**43.18**	**45.97**	**46.54**	**3.57**	**2.42**
Coal and peat	3.01	4.66	11.52	12.91	12.04	15.45	15.05	8.23	1.74
Oil	12.95	15.60	17.24	21.26	24.14	22.73	23.54	1.70	1.64
Gas	-	-	0.20	2.43	3.92	4.78	4.90	-	20.63
Comb. renew/waste	0.64	0.64	1.28	1.44	1.45	1.69	1.60	4.12	1.66
Nuclear	-	-	-	-	-	-	-	-	-
Hydro	0.27	0.42	0.22	0.45	0.72	0.32	0.31	-1.33	2.27
Geothermal	-	-	0.00	0.00	0.02	0.02	0.02	-	10.64
Solar, wind, tide	-	-	0.08	0.20	0.36	0.45	0.43	-	10.65
Net electricity trade[1]	0.01	0.08	0.09	-0.00	0.52	0.54	0.69	17.63	11.25
Heat[2]	-	-	-	-	-	-	-	-	-

Source: *IEA/OECD Energy Balances of OECD Countries*

(1) Net trade between OECD and non-OECD countries.

(2) Ambient heat from heat pumps used in the transformation sector.

2. ENERGY SUPPLY, GDP AND POPULATION*

	1973	1980	1990	2000	2006	2007	2008e	Average annual percent change 73-90	90-07
GDP (2000 bil. US$)	77	94	101	127	163	170	175	1.59	3.11
TPES/GDP[1]	0.22	0.23	0.30	0.30	0.26	0.27	0.27	1.95	-0.67
Population (millions)	9.1	9.8	10.3	10.9	11.1	11.2	11.2	0.76	0.47
TPES/population[1]	1.86	2.18	2.96	3.54	3.87	4.11	4.16	2.78	1.94
TPES/GDP[2]	71.8	74.7	99.8	100.0	86.9	89.0	87.2	1.95	-0.67
Coal and peat supply/GDP[2]	38.4	48.7	112.5	100.0	72.6	89.6	84.5	6.53	-1.33
Elec. consumption/GDP[2]	48.5	62.3	83.2	100.0	94.8	95.8	..	3.22	0.83
Elec. generation (TWh)	15	23	35	53	60	63	59	5.15	3.53
Industrial production[2]	56.6	75.7	83.2	100.0	100.0	102.0	98.7	2.30	1.21

Source: *IEA/OECD Energy Balances of OECD Countries* , *OECD Main Economic Indicators*

(1) TPES/GDP in units of tce/2000 thousand US$, TPES/population in units of tce/capita.

(2) As index, 2000 = 100

3. COAL AND PEAT PRODUCTION BY TYPE*

	1978[1]	1980	1990	2000	2006	2007	2008e	Average annual percent change 78-90	90-07
Mtce:									
Coking coal	-	-	-	-	-	-	-	-	-
Steam coal	-	-	-	-	-	-	-	-	-
Brown coal	3.97	4.22	10.17	11.75	11.67	14.81	14.68	8.16	2.24
Peat	-	-	-	-	-	-	-	-	-
Mt:									
Coking coal	-	-	-	-	-	-	-	-	-
Steam coal	-	-	-	-	-	-	-	-	-
Brown coal	21.82	23.20	51.90	63.89	64.79	66.31	65.72	7.49	1.45
Peat	-	-	-	-	-	-	-	-	-

Source: *IEA/OECD Energy Balances of OECD Countries, IEA/OECD Energy Statistics of OECD Countries*

(1) Earliest year for which split by coal type is available.

* Please refer to notes in *Principles and Definitions* .

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4. FINAL CONSUMPTION OF ENERGY BY FUEL*

(Mtce)

	1973	1980	1990	2000	2005	2006	2007	Average annual percent change 73-90	90-07
TFC[1]	**12.18**	**15.29**	**20.71**	**26.36**	**29.70**	**30.54**	**31.14**	**3.17**	**2.43**
Coal and peat	0.74	0.67	1.72	1.25	0.63	0.57	0.76	5.08	-4.67
Oil	9.24	11.53	13.97	17.73	20.19	20.69	20.46	2.46	2.27
Gas	0.00	0.00	0.16	0.54	1.02	1.17	1.21	24.99	12.65
Comb. renew/wastes	0.64	0.64	1.28	1.35	1.37	1.40	1.63	4.12	1.44
Geothermal	-	-	0.00	0.00	0.01	0.02	0.02	-	10.64
Solar, wind, tide	-	-	0.08	0.14	0.14	0.16	0.23	-	6.31
Electricity	1.56	2.45	3.50	5.30	6.25	6.45	6.78	4.86	3.97
Heat	-	-	-	0.04	0.07	0.08	0.06	-	-
of which:									
Total industry	**4.19**	**5.52**	**5.69**	**6.34**	**5.92**	**6.02**	**6.55**	**1.81**	**0.83**
Coal and peat	0.53	0.45	1.51	1.22	0.62	0.57	0.76	6.35	-3.98
Oil	2.75	3.78	2.40	2.78	2.57	2.77	2.99	-0.80	1.29
Gas	0.00	0.00	0.01	0.35	0.61	0.64	0.58	21.42	26.45
Comb. renew/wastes	-	-	0.27	0.33	0.35	0.31	0.34	-	1.23
Geothermal	-	-	-	-	-	-	-	-	-
Solar, wind, tide	-	-	-	-	0.00	0.00	-	-	-
Electricity	0.91	1.29	1.49	1.66	1.77	1.74	1.88	2.97	1.40
Heat	-	-	-	-	-	-	-	-	-
Total transport	**2.95**	**4.55**	**7.20**	**9.14**	**10.44**	**10.74**	**11.09**	**5.38**	**2.58**
Coal and peat	0.02	0.00	0.00	-	-	-	-	-17.43	-
Oil	2.92	4.54	7.18	9.11	10.40	10.63	10.91	5.43	2.49
Gas	-	-	-	-	0.02	0.02	0.03	-	-
Comb. renew/wastes	-	-	-	-	-	0.07	0.12	-	-
Electricity	0.01	0.01	0.02	0.03	0.02	0.03	0.03	5.92	4.19
Residential	**2.80**	**2.84**	**4.35**	**6.40**	**7.85**	**7.84**	**7.68**	**2.63**	**3.40**
Coal and peat	0.06	0.06	0.03	0.03	0.01	0.00	0.00	-4.19	-13.49
Oil	1.72	1.44	2.12	3.44	4.44	4.23	3.78	1.25	3.46
Gas	0.00	0.00	0.00	0.01	0.10	0.20	0.25	4.03	29.76
Comb. renew/wastes	0.64	0.64	1.00	1.00	1.00	1.00	1.15	2.65	0.80
Geothermal	-	-	-	-	0.01	0.01	0.01	-	-
Solar, wind, tide	-	-	0.08	0.14	0.14	0.15	0.22	-	6.22
Electricity	0.38	0.69	1.11	1.75	2.07	2.17	2.21	6.58	4.10
Heat	-	-	-	0.04	0.07	0.08	0.06	-	-
Comm & public services	**0.25**	**0.40**	**0.93**	**1.87**	**2.77**	**2.96**	**3.05**	**7.96**	**7.24**
Coal and peat	-	-	0.00	-	-	-	-	-	-
Oil	-	-	0.23	0.35	0.63	0.64	0.58	-	5.68
Gas	0.00	0.00	0.01	0.01	0.11	0.13	0.15	9.17	19.39
Comb. renew/waste	-	-	-	0.00	0.01	0.01	0.00	-	-
Geothermal	-	-	-	-	-	-	-	-	-
Solar, wind, tide	-	-	0.00	0.00	0.00	0.00	0.00	-	13.70
Electricity	0.25	0.40	0.69	1.51	2.02	2.18	2.31	6.12	7.37
Heat	-	-	-	-	-	-	-	-	-
Non-energy use	**0.76**	**0.71**	**1.00**	**1.03**	**1.09**	**1.30**	**1.20**	**1.63**	**1.07**
Coal and peat	0.12	0.15	0.17	-	-	-	-	1.77	-
Oil	0.64	0.56	0.70	0.85	0.90	1.11	1.00	0.52	2.17
Gas	-	-	0.14	0.17	0.18	0.19	0.20	-	2.08

Source: *IEA/OECD Energy Balances of OECD Countries*

(1) Total Final Consumption (TFC) excludes use in transformation and energy sectors.

* Please refer to notes in *Principles and Definitions*.

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5. COAL BALANCE*

(Mtce)

	1973	1980	1990	2000	2006	2007	2008e	Average annual percent change 73-90	90-07
Production	2.4	4.2	10.2	11.7	11.7	14.8	14.7	8.8	2.2
Imports	0.7	0.5	1.3	1.2	0.3	0.5	0.3	4.0	-5.1
Exports	-0.0	-	-	-0.1	-0.0	-0.0	-	-	-
Stock changes	-0.1	-0.1	0.0	0.1	0.0	0.1	0.1	x	x
Primary supply	**3.0**	**4.7**	**11.5**	**12.9**	**12.0**	**15.4**	**15.0**	**8.2**	**1.7**
Statistical difference	**-0.0**	**-0.0**	**0.1**	**0.0**	**-0.0**	**-2.8**	**..**	**x**	**x**
Total transformation	**-2.1 e**	**-3.9 e**	**-9.9**	**-11.7**	**-11.4**	**-11.9**	**..**	**9.5**	**1.1**
Electricity and heat gen.	-2.0	-3.8	-9.8	-11.7	-11.4	-11.9	..	9.8	1.1
Main activity producers (1)	*-2.0*	*-3.8*	*-9.8*	*-11.7*	*-11.4*	*-11.9*	*..*	*9.8*	*1.1*
Autoproducers	-	-	-	-	-	-	..	-	-
Gas works	-0.0	-0.0	-	-	-	-	..	-	-
Coal transformation(2)	-0.1 e	-0.1 e	-0.0	-0.0	-0.0	-0.0	..	-6.3	-8.5
BKB plants	*0.0*	*0.0*	*-0.0*	*-0.0*	*-0.0*	*-0.0*	*..*	-	*-8.5*
Blast furnaces	*-0.1 e*	*-0.1 e*	-	-	-	-	..	-	-
Coke ovens	*0.0*	*-0.1*	-	-	-	-	..	-	-
Patent fuel plants	-	-	-	-	-	-	..	-	-
Other transformation(3)	-	-	-	-	-	-	..	-	-
Own use	**-0.1**	**-0.1**	**-**	**-**	**-**	**-**	**..**	**-**	**-**
Distribution losses	**-**	**-**	**-**	**-**	**-**	**-**	**..**	**x**	**x**
Final consumption(4)	**0.7**	**0.7**	**1.7**	**1.3**	**0.6**	**0.8**	**..**	**5.1**	**-4.7**
Industry sector(5)	0.5	0.5	1.5	1.2	0.6	0.8	..	6.3	-4.0
Iron and steel	*0.2 e*	*0.2 e*	-	-	-	-	..	-	-
Chemical	*0.0*	*0.0*	*0.1*	-	-	-	..	*5.6*	-
Non-metallic minerals	*0.0*	*0.0*	*1.2*	*1.0*	*0.3*	*0.5*	..	*36.6*	*-5.0*
Paper, pulp and print	-	-	-	-	-	-	..	-	-
Transport sector(6)	0.0	0.0	0.0	-	-	-	..	-17.4	-
Other sectors(7)	0.1	0.1	0.0	0.0	0.0	0.0	..	-2.9	-14.6
Comm. and pub. services	-	-	*0.0*	-	-	-	..	-	-
Residential	*0.1*	*0.1*	*0.0*	*0.0*	*0.0*	*0.0*	*..*	*-4.2*	*-13.5*
Non-energy use	0.1	0.1	0.2	-	-	-	..	1.8	-

Source: *IEA/OECD Energy Balances of OECD Countries*

(1) Main activity electricity and heat generation includes district heating.

(2) Coal transformation refers to the transformation of coal and peat to secondary and tertiary products (mainly coke, briquettes, coke oven gas and blast furnace gas).

(3) Other transformation includes liquefaction and non-specified transformation.

(4) Final Consumption includes non-energy use and energy use (industry, transport and other sectors).

(5) Please refer to notes in *Principles and Definitions* for detailed explanation.

(6) Transport sector includes rail and inland waterways.

(7) Other sectors includes commercial and public services, agriculture, and residential.

* "Coal" refers to all types of coal, primary (anthracite, coking coal, other bituminous coal, sub-bituminous coal, lignite/brown coal, peat) and derived fuels (including patent fuel, BKB/peat briquettes, coke oven coke, gas coke, coal tar, coke oven gas, gas works gas, blast furnace gas and oxygen steel furnace gas). Quantities have been converted to Mtce using calorific values reported by the respective countries. Please refer to notes in *Principles and Definitions*.

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6. USE OF COAL FOR SELECTED END-USES*

(million tonnes)

	1978	1980	1990	2000	2005	2006	2007	Average annual percent change 78-90	90-07
Steam coal	**0.15**	**0.16**	**1.38**	**1.12**	**0.56**	**0.46**	**0.71**	**20.18**	**-3.83**
Total electricity and heat	-	-	-	0.01	-	-	-	-	-
Main activity producers	-	-	-	*0.01*	-	-	-	-	-
Autoproducers	-	-	-	-	-	-	-	-	-
Patent fuel/BKB plants	-	-	-	-	-	-	-	-	-
Coke ovens	-	-	-	-	-	-	-	-	-
Blast furnace inputs	-	-	-	-	-	-	-	-	-
Gas manufacture	0.02	0.02	-	-	-	-	-	-	-
Industry sector	0.13	0.14	1.38	1.12	0.56	0.46	0.71	21.66	-3.84
Iron and steel	-	-	-	-	-	-	-	-	-
Chemical	-	-	-	-	-	-	-	-	-
Non-metallic minerals	-	-	*1.29*	*1.05*	*0.43*	*0.37*	*0.57*	-	*-4.69*
Paper, pulp and print	-	-	-	-	-	-	-	-	-
Other industry	*0.13*	*0.14*	*0.09*	*0.07*	*0.13*	*0.09*	*0.14*	*-3.54*	*2.85*
Res, comm & pub serv[(1)]	0.00	0.00	0.00	-	0.00	0.00	0.00	-8.75	4.16
Non-energy use	-	-	-	-	-	-	-	-	-
Coking coal	**0.21**	**0.38**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
Total electricity and heat	-	-	-	-	-	-	-	-	-
Main activity producers	-	-	-	-	-	-	-	-	-
Autoproducers	-	-	-	-	-	-	-	-	-
Patent fuel/BKB plants	-	-	-	-	-	-	-	-	-
Coke ovens	0.21	0.38	-	-	-	-	-	-	-
Blast furnace inputs	-	-	-	-	-	-	-	-	-
Gas manufacture	-	-	-	-	-	-	-	-	-
Industry sector	-	-	-	-	-	-	-	-	-
Iron and steel	-	-	-	-	-	-	-	-	-
Chemical	-	-	-	-	-	-	-	-	-
Non-metallic minerals	-	-	-	-	-	-	-	-	-
Paper, pulp and print	-	-	-	-	-	-	-	-	-
Other industry	-	-	-	-	-	-	-	-	-
Res, comm & pub serv[(1)]	-	-	-	-	-	-	-	-	-
Non-energy use	-	-	-	-	-	-	-	-	-
Brown coal/lignite	**21.74**	**22.69**	**52.05**	**64.56**	**70.10**	**64.60**	**66.37**	**7.55**	**1.44**
Total electricity and heat	19.83	20.63	50.53	63.86	69.43	63.96	65.87	8.11	1.57
Main activity producers	*19.83*	*20.63*	*50.53*	*63.86*	*69.43*	*63.96*	*65.87*	*8.11*	*1.57*
Autoproducers	-	-	-	-	-	-	-	-	-
Patent fuel/BKB plants	0.66	0.65	0.35	0.24	0.41	0.27	0.19	-5.14	-3.59
Coke ovens	-	-	-	-	-	-	-	-	-
Gas manufacture	-	-	-	-	-	-	-	-	-
Industry sector	0.36	0.47	0.52	0.38	0.22	0.35	0.31	2.96	-2.89
Iron and steel	-	-	-	-	-	-	-	-	-
Chemical	*0.21*	*0.23*	*0.20*	-	-	-	-	*-0.25*	-
Non-metallic minerals	-	-	*0.02*	*0.00*	-	-	-	-	-
Paper, pulp and print	-	-	-	-	-	-	-	-	-
Other industry	*0.16*	*0.25*	*0.30*	*0.38*	*0.22*	*0.35*	*0.31*	*5.46*	*0.27*
Res, comm & pub serv[(1)]	-	-	0.06	0.03	0.01	0.00	0.00	-	-14.64
Non-energy use	0.83	0.82	0.58	-	-	-	-	-2.96	-

Source: *IEA/OECD Energy Statistics of OECD Countries*

(1) Residential, commercial and public services.

* Please refer to notes in *Principles and Definitions* .

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7. FUEL PRICES TO END USERS*

	1978[1]	1980	1990	2000	2004	2005	2006	2007	2008
				(US dollars / tce)					
For electricity generation									
Steam coal	..	..	..	..	..	..	..	..	..
Heavy fuel oil	49.62	99.40	116.53	..	..	..	..	..	..
Natural gas	..	..	..	c	c	c	c	c	c
For industry									
Steam coal	93.42	119.98	..	..	..	..	..	..	..
Coking coal	..	..	..	..	..	..	..	..	..
High sulphur fuel oil	58.87	118.71	116.53	..	183.42	240.10	276.18	..	..
Low sulphur fuel oil	..	..	..	170.14	202.66	261.75	295.64	346.30	470.29
Natural gas	x	x	x	153.52	180.68	243.00	..	343.28	500.81
				(Euro / unit)[2]					
For electricity generation									
Steam coal	..	..	..	..	..	..	..	..	..
Heavy fuel oil	7.35	17.04	74.15	..	..	..	..	..	..
Natural gas	..	..	..	c	c	c	c	c	c
For industry									
Steam coal	8.82	13.11	..	..	..	..	..	..	..
Coking coal	..	..	..	..	..	..	..	..	..
High sulphur fuel oil	8.72	20.35	74.15	..	202.50	265.07	301.87	..	..
Low sulphur fuel oil	..	..	..	249.44	223.73	288.97	323.14	346.70	441.16
Natural gas	x	x	x	211.00	187.00	251.50	..	322.19	440.42

Source: *IEA/OECD Energy Prices & Taxes*

(1) Earliest year for which split by coal type is available.

(2) For steam coal, coking coal and heavy fuel oil per metric tonne; for natural gas per 10^7 kilocalories GCV.

* Please refer to notes in *Principles and Definitions*.

8. COAL TRADE BY TYPE OF COAL*

(Mtce)

	1973	1980	1990	2000	2004	2005	2006	2007	2008e
Total imports	**0.67**	**0.55**	**1.31**	**1.16**	**0.72**	**0.57**	**0.34**	**0.54**	**0.30**
Hard coal	0.63	0.51	1.28	1.16	0.71	0.56	0.34	0.53	0.29
Coking coal	*..*	*0.38*	-	-	-	-	-	-	-
Steam coal	*..*	*0.13*	*1.28*	*1.16*	*0.71*	*0.56*	*0.34*	*0.53*	*0.29*
Brown coal / lignite	-	-	-	-	-	-	-	0.00	0.00
Peat	-	-	-	-	-	-	-	-	-
Coal products[1]	0.05	0.04	0.03	0.00	0.00	0.00	0.00	0.00	0.00
Total exports	**0.03**	**-**	**-**	**0.06**	**0.05**	**0.04**	**0.02**	**0.01**	**-**
Hard coal	-	-	-	0.05	0.02	0.01	0.01	0.01	-
Coking coal	*..*	-	-	-	-	-	-	-	-
Steam coal	*..*	-	-	*0.05*	*0.02*	*0.01*	*0.01*	*0.01*	-
Brown coal / lignite	-	-	-	0.00	-	-	-	-	-
Peat	-	-	-	-	-	-	-	-	-
Coal products[1]	0.03	-	-	-	0.03	0.03	0.01	-	-

Source: *IEA/OECD Energy Balances of OECD Countries, IEA/OECD Energy Statistics of OECD Countries*

(1) Coal products includes products derived from coal, for example: coke, coal tar, briquettes, patent fuels.

* Please refer to notes in *Principles and Definitions*.

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9. HARD COAL IMPORTS BY ORIGIN*

(thousand tonnes)

	1978[1]	1980	1990	2000	2004	2005	2006	2007	2008e
Hard Coal	**349**	**533**	**1380**	**1245**	**814**	**646**	**383**	**605**	**335**
Coking Coal	**213**	**384**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
Australia	159	285	-	-	-	-	-	-	-
Canada	-	-	-	-	-	-	-	-	-
Czech Republic	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-
Poland	54	99	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-
United States	-	-	-	-	-	-	-	-	-
Other OECD	-	-	-	-	-	-	-	-	-
China, People's Rep.	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-
South Africa	-	-	-	-	-	-	-	-	-
Former USSR[2]	-	-	-	-	-	-	-	-	-
Russia[3]	-	-	-	-	-	-	-	-	-
Other Former USSR[3]	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-
Non-specified/other	-	-	-	-	-	-	-	-	-
Steam coal	**136**	**149**	**1380**	**1245**	**814**	**646**	**383**	**605**	**335**
Australia	48	123	-	110	-	-	-	-	-
Canada	-	-	-	-	-	-	-	-	-
Czech Republic	1	1	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-
Poland	75	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-
United States	-	-	35	-	-	-	-	-	-
Other OECD	-	-	4	-	69	71	73	67	-
China, People's Rep.	-	-	-	119	136	-	-	-	-
Colombia	-	-	-	-	-	-	71	72	37
Indonesia	-	-	-	205	63	63	11	18	18
South Africa	-	-	1017	447	-	132	-	36	51
Former USSR[2]	12	25	-	-	-	-	-	-	-
Russia[3]	-	-	*324*	*321*	*546*	*380*	*225*	*412*	*215*
Other Former USSR[3]	-	-	-	*43*	-	-	*3*	-	*14*
Venezuela	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-
Non-specified/other	-	-	-	-	-	-	-	-	-

Source: IEA/OECD Coal Statistics

(1) Earliest year for which split by coal type is available.

(2) If no detail.

(3) Data for former republics are not available separately for some OECD member countries.

* Please refer to notes in *Principles and Definitions*.

Greece

12. COAL IMPORT VALUES BY ORIGIN*

(average unit value, CIF, US$/tonne)

	1988	1990	1995	2003	2004	2005	2006	2007	2008
Coking coal[1]	**34.49**	**40.74**	**288.28**	**..**	**306.61**	**304.84**	**306.70**	**310.94**	**380.10**
Imports from:									
Australia	..	40.88	..	..	..	..	..	..	..
Canada	..	..	..	..	..	..	..	..	..
Czech Republic	182.83	201.72	288.28	..	..	..	..	..	..
Poland	..	..	..	..	..	..	..	..	..
United States	..	..	..	..	..	..	..	..	..
China	..	..	..	..	..	..	..	..	..
Colombia	..	..	..	..	..	..	..	..	..
South Africa	34.44	..	..	..	..	..	..	..	..
Former USSR[2]	..	..	..	..	..	..	..	..	..
Steam coal[3]	**36.23**	**43.47**	**42.95**	**37.53**	**58.84**	**54.72**	**70.79**	**78.44**	**117.37**
Imports from:									
Australia	34.95	..	..	..	..	..	..	..	..
Canada	..	..	..	..	..	..	..	..	..
Czech Republic	104.47	131.94	179.85	143.55	178.07	198.06	198.12	252.12	341.67
Poland	..	..	..	..	..	..	..	..	..
United States	..	52.03	..	..	76.30	..	..	..	120.31
China	..	..	..	..	41.49	..	..	..	..
Colombia	32.86	29.06	45.00	..	..	..	77.16	79.58	..
South Africa	37.11	..	40.52	..	..	69.89	69.59	..	..
Former USSR[2]	36.12	42.36	54.16	39.33	64.21	46.37	69.71	75.73	97.49

Source: IEA/OECD Coal Statistics

Note: On occasion, shipment of extremely small quantities of high valued coal results in high import costs.

(1) Weighted average of individual countries using import volumes as weights. Prices exclude intra-EU trade.

(2) Former USSR until 1991, Russia starting in 1992.

(3) Bituminous steam coal only. Weighted average of individual countries using volumes as weights. Prices exclude intra-EU trade.

* Please refer to notes in *Principles and Definitions*.

Hungary*

Chart 1: TPES by fuel (Mtce)

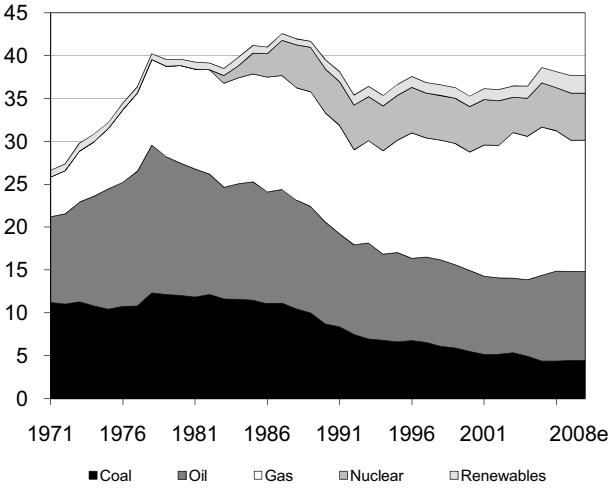


Chart 2: Coal supply indicators (1971 = 100)

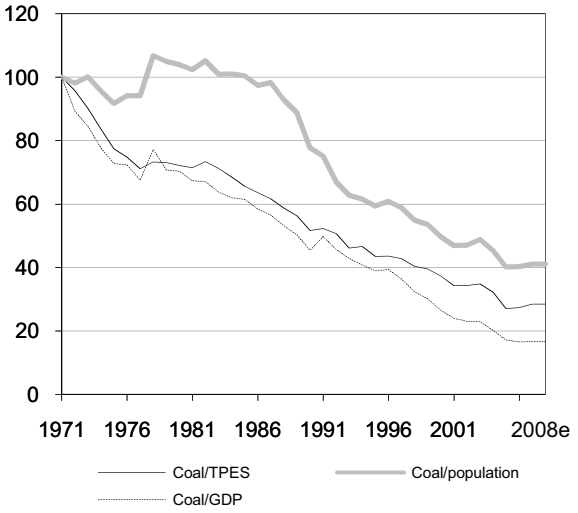


Chart 3: Primary coal supply (Mtce)

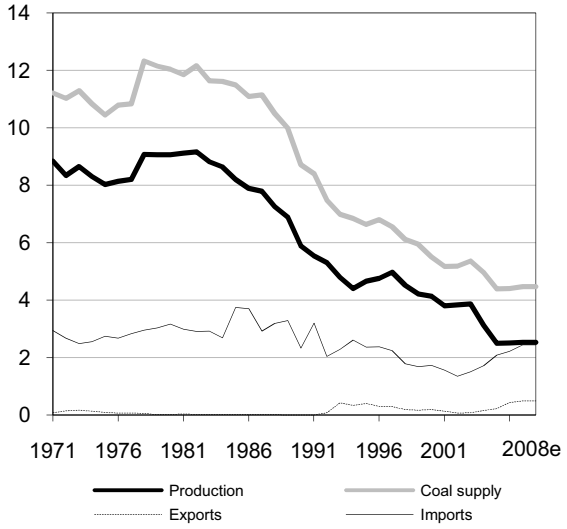


Chart 4: Coal consumption (Mtce)

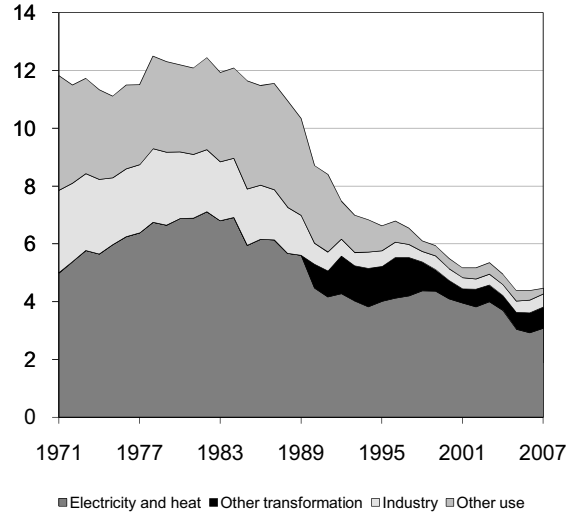


Chart 5: Electricity generation by fuel (TWh)

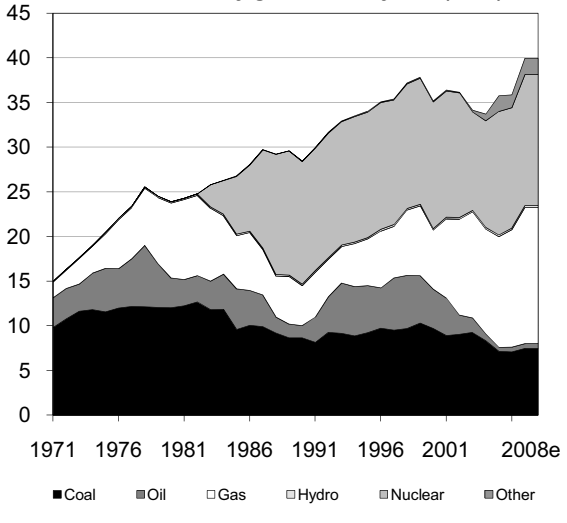
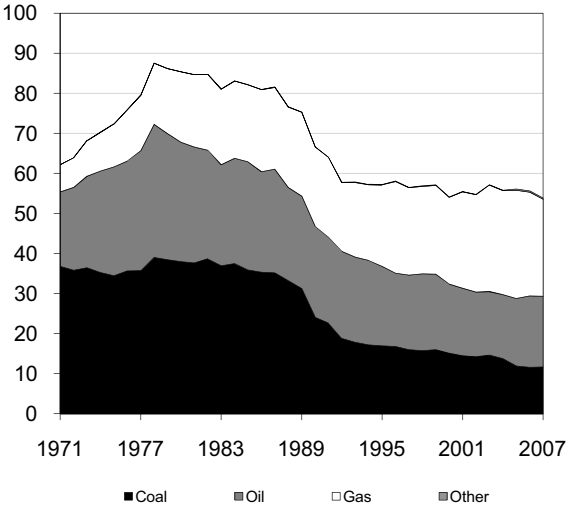


Chart 6: CO_2 emissions by fuel (Mt CO_2)



*Please refer to notes in *Principles and Definitions* . Peat is included in coal for all charts.

Hungary

1. TOTAL PRIMARY ENERGY SUPPLY (TPES) BY FUEL*

	1973	1980	1990	2000	2006	2007	2008e	Average annual percent change 73-90	90-07
TPES (Mtce)	**30.39**	**40.50**	**40.94**	**35.71**	**39.04**	**38.18**	**38.02**	**1.77**	**-0.41**
Coal and peat	11.29	12.04	8.72	5.50	4.39	4.47	4.38	-1.51	-3.86
Oil	11.64	15.42	11.93	9.47	10.50	10.40	10.10	0.14	-0.80
Gas	5.96	11.39	12.73	13.79	16.36	15.29	15.20	4.57	1.08
Comb. renew/waste	0.91	0.74	0.94	1.08	1.71	1.89	2.13	0.15	4.21
Nuclear	-	-	5.11	5.30	5.03	5.48	5.54	-	0.41
Hydro	0.01	0.01	0.02	0.02	0.02	0.03	0.03	3.39	0.98
Geothermal	-	-	0.12	0.12	0.12	0.12	0.13	-	-
Solar, wind, tide	-	-	-	-	0.01	0.02	0.03	-	-
Net electricity trade[1]	0.57	0.91	1.37	0.42	0.89	0.49	0.48	5.26	-5.87
Heat[2]	-	-	-	-	-	-	-	-	-

Source: *IEA/OECD Energy Balances of OECD Countries*

(1) Net trade between OECD and non-OECD countries.

(2) Ambient heat from heat pumps used in the transformation sector.

2. ENERGY SUPPLY, GDP AND POPULATION*

	1973	1980	1990	2000	2006	2007	2008e	Average annual percent change 73-90	90-07
GDP (2000 bil. US$)	31 e	40 e	44 e	48	61	62	63	2.14	2.00
TPES/GDP[1]	0.98 e	1.02 e	0.92 e	0.74	0.64	0.61	0.60	-0.37	-2.36
Population (millions)	10.4	10.7	10.4	10.2	10.1	10.1	10.0	-0.03	-0.18
TPES/population[1]	2.92	3.78	3.95	3.50	3.88	3.80	3.79	1.80	-0.23
TPES/GDP[2]	131.8 e	137.2 e	123.8 e	100.0	85.3	82.5	81.0	-0.37	-2.36
Coal and peat supply/GDP[2]	318.2 e	264.9 e	171.2 e	100.0	62.3	62.7	60.7	-3.58	-5.74
Elec. consumption/GDP[2]	92.4 e	105.1 e	115.9 e	100.0	88.1	88.5	..	1.34	-1.58
Elec. generation (TWh)	18	24	28	35	36	40	40	2.85	2.02
Industrial production[2]	..	70.0	68.3	100.0	144.6	155.9	155.9	-	4.98

Source: *IEA/OECD Energy Balances of OECD Countries* , *OECD Main Economic Indicators*

(1) TPES/GDP in units of tce/2000 thousand US$, TPES/population in units of tce/capita.

(2) As index, 2000 = 100

3. COAL AND PEAT PRODUCTION BY TYPE*

	1978[1]	1980	1990	2000	2006	2007	2008e	Average annual percent change 78-90	90-07
Mtce:									
Coking coal	0.87	0.89	0.17	-	-	-	-	-12.69	-
Steam coal	-	-	-	-	-	-	-	-	-
Brown coal	8.20	8.17	5.72	4.13	2.51	2.53	2.43	-2.96	-4.68
Peat	-	-	-	-	-	-	-	-	-
Mt:									
Coking coal	0.86	0.88	0.17	-	-	-	-	-12.69	-
Steam coal	-	-	-	-	-	-	-	-	-
Brown coal	25.24	25.14	17.33	14.03	9.95	9.82	9.40	-3.09	-3.29
Peat	-	-	-	-	-	-	-	-	-

Source: *IEA/OECD Energy Balances of OECD Countries, IEA/OECD Energy Statistics of OECD Countries*

(1) Earliest year for which split by coal type is available.

* Please refer to notes in *Principles and Definitions* .

Hungary

4. FINAL CONSUMPTION OF ENERGY BY FUEL*

(Mtce)

	1973	1980	1990	2000	2005	2006	2007	Average annual percent change 73-90	90-07
TFC[1]	**24.13**	**31.35**	**29.39**	**24.53**	**28.40**	**28.03**	**26.67**	**1.17**	**-0.57**
Coal and peat	5.96	5.33	3.42	0.76	0.75	0.78	0.65	-3.22	-9.27
Oil	9.23	12.86	9.96	7.42	9.33	9.67	9.70	0.45	-0.15
Gas	4.39	6.86	8.85	9.56	11.49	10.58	9.24	4.21	0.25
Comb. renew/wastes	0.88	0.71	0.88	0.99	0.86	1.04	1.11	0.01	1.38
Geothermal	-	-	0.12	0.11	0.11	0.12	0.12	-	-0.37
Solar, wind, tide	-	-	-	-	0.00	0.00	0.00	-	-
Electricity	2.16	3.14	3.88	3.62	3.97	4.08	4.15	3.52	0.39
Heat	1.51	2.46	2.27	2.07	1.87	1.77	1.70	2.43	-1.70
of which:									
Total industry	**9.27**	**11.13**	**8.61**	**4.65**	**4.37**	**4.41**	**4.35**	**-0.44**	**-3.93**
Coal and peat	2.66	2.31	0.73	0.41	0.39	0.44	0.45	-7.35	-2.77
Oil	2.18	2.43	1.28	0.38	0.36	0.30	0.31	-3.09	-8.07
Gas	2.42	3.76	4.58	1.96	1.79	1.80	1.74	3.83	-5.52
Comb. renew/wastes	0.03	0.02	0.00	0.09	0.15	0.17	0.18	-10.48	24.71
Geothermal	-	-	-	-	0.00	0.00	0.00	-	-
Solar, wind, tide	-	-	-	-	-	-	-	-	-
Electricity	1.32	1.70	1.69	1.08	1.14	1.15	1.16	1.46	-2.17
Heat	0.66	0.91	0.33	0.74	0.54	0.54	0.51	-4.03	2.65
Total transport	**3.26**	**4.11**	**4.19**	**4.34**	**5.72**	**6.12**	**6.32**	**1.49**	**2.45**
Coal and peat	0.54	0.18	0.00	0.00	0.01	-	-	-30.33	-
Oil	2.62	3.80	4.04	4.21	5.57	5.95	6.13	2.58	2.48
Gas	-	-	0.00	0.00	0.00	0.00	0.00	-	17.85
Comb. renew/wastes	-	-	-	-	0.00	0.02	0.04	-	-
Electricity	0.10	0.13	0.15	0.12	0.13	0.15	0.15	2.40	0.18
Residential	**5.42**	**7.36**	**9.66**	**7.98**	**9.22**	**8.86**	**7.93**	**3.46**	**-1.16**
Coal and peat	1.99	2.48	2.49	0.27	0.34	0.33	0.19	1.32	-13.93
Oil	1.41	1.75	1.67	0.44	0.26	0.23	0.16	0.98	-12.73
Gas	0.49	0.88	2.35	4.32	5.61	5.20	4.53	9.71	3.95
Comb. renew/wastes	0.80	0.65	0.85	0.79	0.63	0.74	0.76	0.31	-0.60
Geothermal	-	-	-	-	-	-	-	-	-
Solar, wind, tide	-	-	-	-	0.00	0.00	0.00	-	-
Electricity	0.31	0.62	1.13	1.20	1.37	1.41	1.38	7.83	1.20
Heat	0.41	0.98	1.19	0.95	1.00	0.95	0.89	6.43	-1.69
Comm & public services	**1.60**	**2.00**	**2.88**	**4.32**	**5.01**	**4.59**	**4.07**	**3.51**	**2.06**
Coal and peat	0.61	0.30	0.13	0.03	0.00	0.01	0.00	-8.68	-17.51
Oil	0.24	0.64	0.41	0.10	0.05	0.04	0.05	3.15	-12.09
Gas	0.19	0.30	0.88	2.53	3.26	2.81	2.18	9.41	5.51
Comb. renew/waste	-	0.00	0.01	0.08	0.06	0.09	0.11	-	12.72
Geothermal	-	-	0.12	0.11	0.09	0.09	0.09	-	-1.44
Solar, wind, tide	-	-	-	-	0.00	0.00	0.00	-	-
Electricity	0.28	0.33	0.68	1.09	1.22	1.27	1.33	5.28	4.04
Heat	0.28	0.43	0.65	0.37	0.33	0.28	0.30	5.08	-4.48
Non-energy use	**1.84**	**3.51**	**2.27**	**2.26**	**3.27**	**3.27**	**3.29**	**1.26**	**2.21**
Coal and peat	-	-	-	-	-	-	-	-	-
Oil	0.98	2.20	1.48	1.79	2.76	2.79	2.73	2.47	3.66
Gas	0.86	1.30	0.79	0.47	0.51	0.48	0.56	-0.48	-1.99

Source: *IEA/OECD Energy Balances of OECD Countries*

(1) Total Final Consumption (TFC) excludes use in transformation and energy sectors.

* Please refer to notes in *Principles and Definitions*.

Hungary

5. COAL BALANCE*

(Mtce)

	1973	1980	1990	2000	2006	2007	2008e	Average annual percent change 73-90	90-07
Production	8.6	9.1	5.9	4.1	2.5	2.5	2.4	-2.2	-4.8
Imports	2.5	3.2	2.3	1.7	2.2	2.4	2.5	-0.4	0.3
Exports	-0.2	-0.0	-0.0	-0.2	-0.4	-0.5	-0.4	-28.6	49.6
Stock changes	0.3	-0.2	0.5	-0.2	0.1	-0.0	-0.1	x	x
Primary supply	**11.3**	**12.0**	**8.7**	**5.5**	**4.4**	**4.5**	**4.4**	**-1.5**	**-3.9**
Statistical difference	**1.2**	**0.6**	**-0.7**	**0.0**	**-0.0**	**-0.0**	**..**	**x**	**x**
Total transformation	**-6.4 e**	**-7.2 e**	**-4.5 e**	**-4.6 e**	**-3.5 e**	**-3.7 e**	**..**	**-2.1**	**-1.2**
Electricity and heat gen.	-5.8	-6.9	-4.5	-4.1	-2.9	-3.1	..	-1.5	-2.2
Main activity producers (1)	*-5.4*	*-6.5*	*-4.2*	*-4.1*	*-2.9*	*-3.1*	*..*	*-1.4*	*-1.9*
Autoproducers	*-0.4*	*-0.4*	*-0.2*	-	-	*-0.0*	*..*	*-3.5*	*-24.4*
Gas works	-0.1	-0.1	-	-	-	-	..	-	-
Coal transformation(2)	-0.5 e	-0.3 e	-0.0 e	-0.5 e	-0.6 e	-0.6 e	..	-21.6	28.4
BKB plants	*0.4*	*0.4*	*0.7*	*0.0*	*-0.0*	*-0.0*	*..*	*3.5*	-
Blast furnaces	*-0.4 e*	*-0.4 e*	*-0.6 e*	*-0.4 e*	*-0.4 e*	*-0.4 e*	*..*	*2.1*	*-2.1*
Coke ovens	*-0.4*	*-0.3*	*-0.1*	*-0.2*	*-0.1*	*-0.2*	*..*	*-5.3*	*1.1*
Patent fuel plants	*-0.1*	*0.0*	*0.0*	-	-	-	*..*	-	-
Other transformation(3)	-	-	-	-	-	-	..	-	-
Own use	**-0.1**	**-0.1**	**-0.1**	**-0.1**	**-0.1**	**-0.1**	**..**	**-0.2**	**1.4**
Distribution losses	**-0.0**	**-0.0**	**-0.0**	**-**	**-0.0**	**-0.0**	**..**	**x**	**x**
Final consumption(4)	**6.0**	**5.3**	**3.4**	**0.8**	**0.8**	**0.7**	**..**	**-3.2**	**-9.3**
Industry sector(5)	2.7	2.3	0.7	0.4	0.4	0.5	..	-7.4	-2.8
Iron and steel	*1.4 e*	*1.5 e*	*0.5*	*0.3 e*	*0.3 e*	*0.3 e*	*..*	*-6.3*	*-3.1*
Chemical	*0.1*	*0.1*	*0.0*	-	-	*0.0*	*..*	*-7.9*	*-17.4*
Non-metallic minerals	*0.5*	*0.3*	*0.1*	*0.1*	*0.2*	*0.2*	*..*	*-9.7*	*4.4*
Paper, pulp and print	*0.0*	*0.0*	*0.0*	*0.0*	-	-	*..*	*-14.1*	-
Transport sector(6)	0.5	0.2	0.0	0.0	-	-	..	-30.3	-
Other sectors(7)	2.8	2.8	2.7	0.3	0.3	0.2	..	-0.1	-14.1
Comm. and pub. services	*0.6*	*0.3*	*0.1*	*0.0*	*0.0*	*0.0*	*..*	*-8.7*	*-17.5*
Residential	*2.0*	*2.5*	*2.5*	*0.3*	*0.3*	*0.2*	*..*	*1.3*	*-13.9*
Non-energy use	-	-	-	-	-	-	..	-	-

Source: *IEA/OECD Energy Balances of OECD Countries*

(1) Main activity electricity and heat generation includes district heating.

(2) Coal transformation refers to the transformation of coal and peat to secondary and tertiary products (mainly coke, briquettes, coke oven gas and blast furnace gas).

(3) Other transformation includes liquefaction and non-specified transformation.

(4) Final Consumption includes non-energy use and energy use (industry, transport and other sectors).

(5) Please refer to notes in *Principles and Definitions* for detailed explanation.

(6) Transport sector includes rail and inland waterways.

(7) Other sectors includes commercial and public services, agriculture, and residential.

* "Coal" refers to all types of coal, primary (anthracite, coking coal, other bituminous coal, sub-bituminous coal, lignite/brown coal, peat) and derived fuels (including patent fuel, BKB/peat briquettes, coke oven coke, gas coke, coal tar, coke oven gas, gas works gas, blast furnace gas and oxygen steel furnace gas). Quantities have been converted to Mtce using calorific values reported by the respective countries. Please refer to notes in *Principles and Definitions*.

Hungary

6. USE OF COAL FOR SELECTED END-USES*

(million tonnes)

	1978	1980	1990	2000	2005	2006	2007	Average annual percent change 78-90	90-07
Steam coal	**-**	**-**	**-**	**-**	**0.53**	**0.55**	**0.51**	**-**	**-**
Total electricity and heat	-	-	-	-	0.21	0.23	0.28	-	-
Main activity producers	-	-	-	-	*0.21*	*0.23*	*0.28*	-	-
Autoproducers	-	-	-	-	-	-	-	-	-
Patent fuel/BKB plants	-	-	-	-	0.01	0.02	0.01	-	-
Coke ovens	-	-	-	-	-	-	-	-	-
Blast furnace inputs	-	-	-	-	-	-	-	-	-
Gas manufacture	-	-	-	-	-	-	-	-	-
Industry sector	-	-	-	-	0.19	0.21	0.15	-	-
Iron and steel	-	-	-	-	-	-	-	-	-
Chemical	-	-	-	-	-	-	-	-	-
Non-metallic minerals	-	-	-	-	*0.19*	*0.21*	*0.15*	-	-
Paper, pulp and print	-	-	-	-	-	-	-	-	-
Other industry	-	-	-	-	*0.00*	*0.00*	*0.00*	-	-
Res, comm & pub serv[(1)]	-	-	-	-	0.11	0.09	0.06	-	-
Non-energy use	-	-	-	-	-	-	-	-	-
Coking coal	**1.74**	**1.70**	**0.97**	**1.28**	**0.81**	**1.30**	**1.46**	**-4.74**	**2.43**
Total electricity and heat	-	-	-	-	-	-	-	-	-
Main activity producers	-	-	-	-	-	-	-	-	-
Autoproducers	-	-	-	-	-	-	-	-	-
Patent fuel/BKB plants	-	-	-	-	-	-	-	-	-
Coke ovens	1.38	1.41	0.96	1.28	0.81	1.30	1.46	-3.04	2.52
Blast furnace inputs	-	-	-	-	-	-	-	-	-
Gas manufacture	-	-	-	-	-	-	-	-	-
Industry sector	0.01	0.01	0.00	-	-	-	-	-10.91	-
Iron and steel	*0.01*	*0.01*	*0.00*	-	-	-	-	*-9.91*	-
Chemical	*0.00*	*0.00*	-	-	-	-	-	-	-
Non-metallic minerals	-	-	-	-	-	-	-	-	-
Paper, pulp and print	-	-	-	-	-	-	-	-	-
Other industry	-	-	-	-	-	-	-	-	-
Res, comm & pub serv[(1)]	0.16	0.18	0.01	-	-	-	-	-20.46	-
Non-energy use	-	-	-	-	-	-	-	-	-
Brown coal/lignite	**26.22**	**25.85**	**19.01**	**13.89**	**10.25**	**10.18**	**10.09**	**-2.65**	**-3.66**
Total electricity and heat	18.29	18.56	14.53	13.02	9.81	9.73	9.78	-1.90	-2.30
Main activity producers	*17.61*	*17.91*	*14.34*	*13.02*	*9.81*	*9.73*	*9.78*	*-1.70*	*-2.23*
Autoproducers	*0.68*	*0.65*	*0.20*	-	-	-	*0.00*	*-9.75*	*-20.51*
Patent fuel/BKB plants	1.42	1.47	1.50	0.10	0.02	0.00	0.00	0.46	-34.95
Coke ovens	-	-	-	-	-	-	-	-	-
Gas manufacture	-	-	-	-	-	-	-	-	-
Industry sector	2.67	2.26	0.65	0.14	0.00	0.00	0.04	-11.15	-14.84
Iron and steel	*0.27*	*0.26*	*0.08*	-	-	-	-	*-9.63*	-
Chemical	*0.27*	*0.29*	*0.09*	-	-	-	-	*-8.72*	-
Non-metallic minerals	*1.06*	*0.75*	*0.20*	*0.14*	-	-	*0.04*	*-13.03*	*-8.85*
Paper, pulp and print	*0.06*	*0.05*	*0.01*	*0.00*	-	-	-	*-17.57*	-
Other industry	*1.00*	*0.92*	*0.27*	*0.01*	*0.00*	*0.00*	*0.00*	*-10.39*	*-28.04*
Res, comm & pub serv[(1)]	3.18	3.21	2.18	0.55	0.36	0.42	0.25	-3.11	-11.87
Non-energy use	-	-	-	-	-	-	-	-	-

Source: *IEA/OECD Energy Statistics of OECD Countries*

(1) Residential, commercial and public services.

* Please refer to notes in *Principles and Definitions*.

Hungary

7. FUEL PRICES TO END USERS*

	1978[1]	1980	1990	2000	2004	2005	2006	2007	2008
				(US dollars / tce)					
For electricity generation									
Steam coal	..	33.66	90.60	c	c	c	c	c	c
Heavy fuel oil	..	60.78	64.33	105.44	..	..	..	..	..
Natural gas	..	51.33	76.50	77.67	195.49	222.34	304.81	384.31	485.08
For industry									
Steam coal	..	50.47	100.92	..	..	..	..	..	..
Coking coal	c	c	c	c	c	c	c	c	c
High sulphur fuel oil	..	77.69	70.64	95.91	..	..	..	..	..
Low sulphur fuel oil	..	..	..	99.70	..	243.38	283.95	324.34	459.28
Natural gas	..	66.66	102.01	85.27	223.77	268.82	350.89	454.37	585.67
				(Hungarian forints / unit)[2]					
For electricity generation									
Steam coal	..	372	1700	c	c	c	c	c	c
Heavy fuel oil	..	2740	5635	41246	..	..	..	..	..
Natural gas	..	2147	6217	28191	50925	57038	82454	90714	107559
For industry									
Steam coal	..	917	3700	..	..	..	..	..	..
Coking coal	c	c	c	c	c	c	c	c	c
High sulphur fuel oil	..	3430	6060	36743	..	..	..	..	..
Low sulphur fuel oil	..	..	..	38194	..	65906	81081	80812	107495
Natural gas	..	2788	8290	30950	58292	68963	94922	107252	129863

Source: *IEA/OECD Energy Prices & Taxes*

(1) Earliest year for which split by coal type is available.

(2) For steam coal, coking coal and heavy fuel oil per metric tonne; for natural gas per 10^7 kilocalories GCV.

* Please refer to notes in *Principles and Definitions*.

8. COAL TRADE BY TYPE OF COAL*

(Mtce)

	1973	1980	1990	2000	2004	2005	2006	2007	2008e
Total imports	**2.49**	**3.17**	**2.33**	**1.73**	**1.72**	**2.08**	**2.22**	**2.45**	**2.46**
Hard coal	0.66	0.85	0.64	1.26	1.29	1.43	1.77	2.04	1.98
Coking coal	*..*	*0.85*	*0.64*	*1.26*	*0.90*	*0.96*	*1.35*	*1.58*	*1.54*
Steam coal	*..*	-	-	-	*0.39*	*0.47*	*0.42*	*0.47*	*0.43*
Brown coal / lignite	0.40	0.57	0.79	0.46	0.23	0.43	0.39	0.37	0.46
Peat	-	-	-	-	-	-	-	-	-
Coal products[1]	1.43	1.74	0.90	0.01	0.20	0.22	0.06	0.04	0.03
Total exports	**0.16**	**0.03**	**0.00**	**0.19**	**0.16**	**0.22**	**0.43**	**0.48**	**0.41**
Hard coal	-	-	-	-	0.00	0.00	0.00	-	0.00
Coking coal	*..*	-	-	-	-	-	-	-	*0.00*
Steam coal	*..*	-	-	-	*0.00*	*0.00*	*0.00*	-	-
Brown coal / lignite	0.04	0.03	0.00	0.00	0.02	0.11	0.15	0.13	0.06
Peat	-	-	-	-	-	-	-	-	-
Coal products[1]	0.12	-	-	0.19	0.13	0.10	0.28	0.35	0.35

Source: *IEA/OECD Energy Balances of OECD Countries, IEA/OECD Energy Statistics of OECD Countries*

(1) Coal products includes products derived from coal, for example: coke, coal tar, briquettes, patent fuels.

* Please refer to notes in *Principles and Definitions*.

Hungary

9. HARD COAL IMPORTS BY ORIGIN*

(thousand tonnes)

	1978[1]	1980	1990	2000	2004	2005	2006	2007	2008e
Hard Coal	**817**	**812**	**610**	**1234**	**1336**	**1447**	**1759**	**2000**	**1931**
Coking Coal	**817**	**812**	**610**	**1234**	**872**	**898**	**1260**	**1469**	**1440**
Australia	-	-	-	-	88	115	32	64	18
Canada	-	-	-	-	-	-	-	-	72
Czech Republic	-	-	-	800	303	230	449	462	236
Germany	-	-	-	-	-	-	-	-	-
Poland	-	-	-	251	83	217	154	119	96
United Kingdom	-	-	-	-	-	-	-	-	-
United States	-	-	-	51	3	52	105	486	839
Other OECD	-	-	-	-	-	-	-	-	-
China, People's Rep.	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-
South Africa	-	-	-	-	-	-	-	-	-
Former USSR[2]	817 e	812 e	-	-	-	-	-	-	-
Russia[3]	-	-	*610 e*	*132*	*357*	*284*	*225*	*251*	*132*
Other Former USSR[3]	-	-	-	-	*38*	-	*295*	*87*	*47*
Venezuela	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-
Non-specified/other	-	-	-	-	-	-	-	-	-
Steam coal	**-**	**-**	**-**	**-**	**464**	**549**	**499**	**531**	**491**
Australia	-	-	-	-	-	-	-	-	-
Canada	-	-	-	-	-	-	-	-	-
Czech Republic	-	-	-	-	-	19	67	96	91
Germany	-	-	-	-	-	-	-	-	-
Poland	-	-	-	-	269	263	216	139	119
United Kingdom	-	-	-	-	-	-	-	-	-
United States	-	-	-	-	-	-	-	-	-
Other OECD	-	-	-	-	-	1	-	-	5
China, People's Rep.	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-
South Africa	-	-	-	-	-	-	-	-	-
Former USSR[2]	-	-	-	-	-	-	-	-	-
Russia[3]	-	-	-	-	*195*	*266*	*216*	*294*	*251*
Other Former USSR[3]	-	-	-	-	-	-	-	*2*	*25*
Venezuela	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-
Non-specified/other	-	-	-	-	-	-	-	-	-

Source: IEA/OECD Coal Statistics

(1) Earliest year for which split by coal type is available.

(2) If no detail.

(3) Data for former republics are not available separately for some OECD member countries.

* Please refer to notes in *Principles and Definitions*.

Iceland*

Chart 1: TPES by fuel (Mtce)

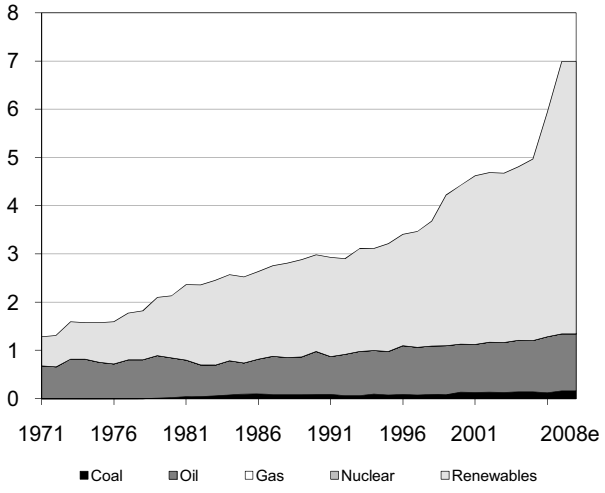


Chart 2: Coal supply indicators (1971 = 100)

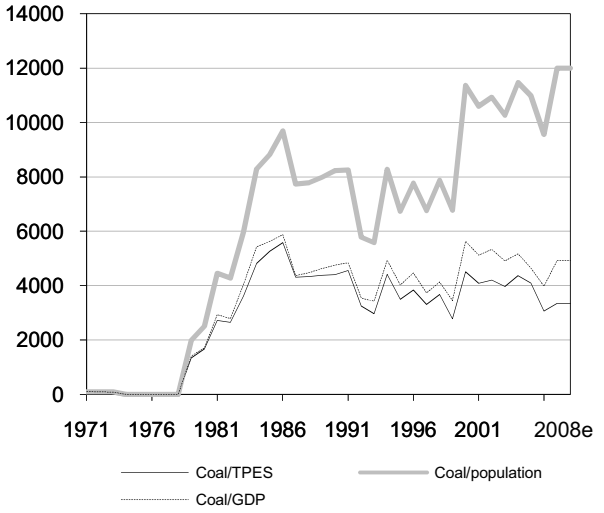


Chart 3: Primary coal supply (Mtce)

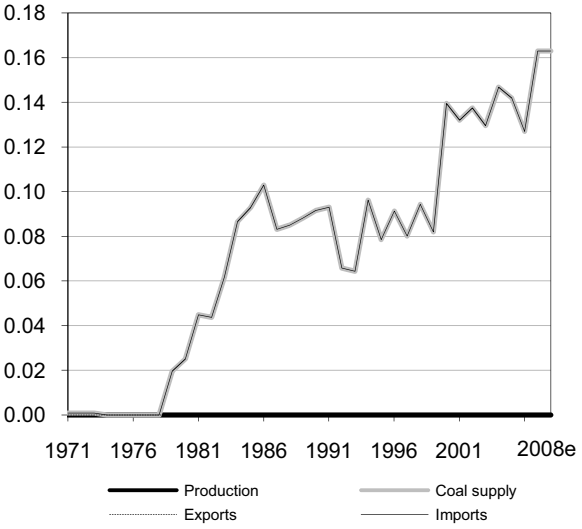


Chart 4: Coal consumption (Mtce)

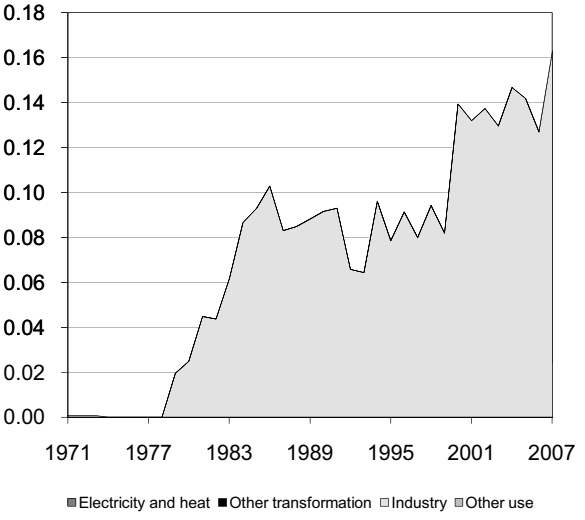


Chart 5: Electricity generation by fuel (TWh)

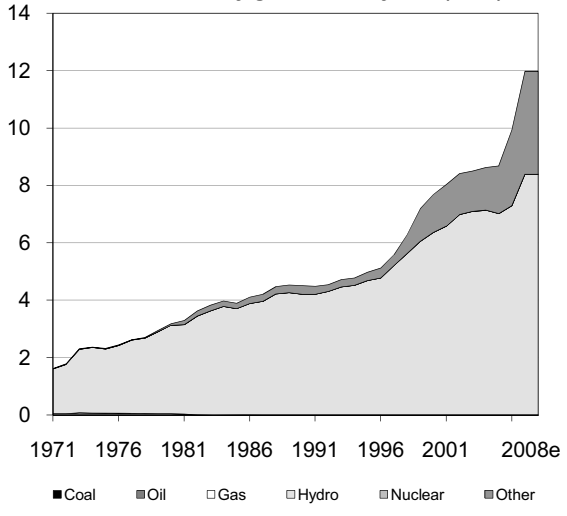
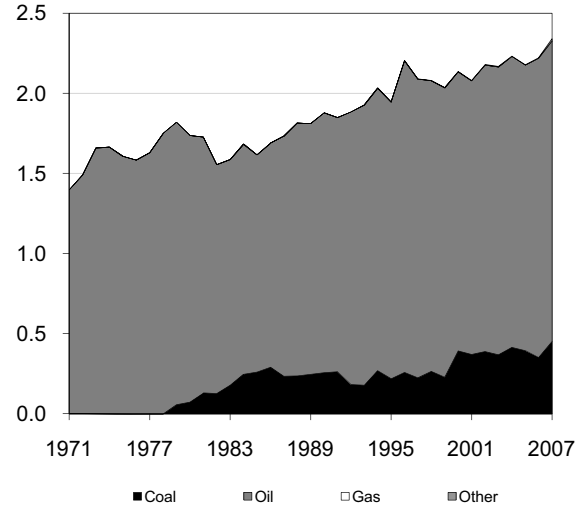


Chart 6: CO_2 emissions by fuel (Mt CO_2)



*Please refer to notes in *Principles and Definitions* . Peat is included in coal for all charts.

Iceland

1. TOTAL PRIMARY ENERGY SUPPLY (TPES) BY FUEL*

	1973	1980	1990	2000	2006	2007	2008e	Average annual percent change 73-90	90-07
TPES (Mtce)	**1.60**	**2.14**	**2.98**	**4.43**	**5.94**	**6.99**	**6.67**	**3.74**	**5.14**
Coal and peat	0.00	0.03	0.09	0.14	0.13	0.16	0.12	31.25	3.45
Oil	0.82	0.82	0.89	1.00	1.16	1.18	1.06	0.47	1.68
Gas	-	-	-	-	-	-	-	-	-
Comb. renew/waste	-	-	-	0.00	0.00	0.01	0.01	-	-
Nuclear	-	-	-	-	-	-	-	-	-
Hydro	0.27	0.38	0.52	0.78	0.90	1.03	1.53	3.86	4.15
Geothermal	0.50	0.91	1.48	2.51	3.76	4.61	3.96	6.58	6.89
Solar, wind, tide	-	-	-	-	-	-	-	-	-
Net electricity trade(1)	-	-	-	-	-	-	-	-	-
Heat(2)	-	-	-	-	-	-	-0.00	-	-

Source: *IEA/OECD Energy Balances of OECD Countries*

(1) Net trade between OECD and non-OECD countries.

(2) Ambient heat from heat pumps used in the transformation sector.

2. ENERGY SUPPLY, GDP AND POPULATION*

	1973	1980	1990	2000	2006	2007	2008e	Average annual percent change 73-90	90-07
GDP (2000 bil. US$)	4	5	7	9	11	12	12	3.81	3.24
TPES/GDP(1)	0.45	0.41	0.44	0.51	0.53	0.60	0.57	-0.07	1.84
Population (millions)	0.2	0.2	0.3	0.3	0.3	0.3	0.3	1.09	1.17
TPES/population(1)	7.54	9.38	11.70	15.76	19.54	22.48	21.73	2.62	3.92
TPES/GDP(2)	87.7	81.4	86.6	100.0	104.2	118.1	111.0	-0.07	1.84
Coal and peat supply/GDP(2)	1.6	30.2	84.5	100.0	70.8	87.4	65.2	26.43	0.20
Elec. consumption/GDP(2)	72.8	69.8	72.8	100.0	101.1	117.8	..	-0.01	2.88
Elec. generation (TWh)	2	3	5	8	10	12	16	3.99	5.91
Industrial production(2)	..	..	..	..	..	..	..	-	-

Source: *IEA/OECD Energy Balances of OECD Countries* , *OECD Main Economic Indicators*

(1) TPES/GDP in units of tce/2000 thousand US$, TPES/population in units of tce/capita.

(2) As index, 2000 = 100

3. COAL AND PEAT PRODUCTION BY TYPE*

	1978(1)	1980	1990	2000	2006	2007	2008e	Average annual percent change 78-90	90-07
Mtce:									
Coking coal	-	-	-	-	-	-	-	-	-
Steam coal	-	-	-	-	-	-	-	-	-
Brown coal	-	-	-	-	-	-	-	-	-
Peat	-	-	-	-	-	-	-	-	-
Mt:									
Coking coal	-	-	-	-	-	-	-	-	-
Steam coal	-	-	-	-	-	-	-	-	-
Brown coal	-	-	-	-	-	-	-	-	-
Peat	-	-	-	-	-	-	-	-	-

Source: *IEA/OECD Energy Balances of OECD Countries, IEA/OECD Energy Statistics of OECD Countries*

(1) Earliest year for which split by coal type is available.

* Please refer to notes in *Principles and Definitions* .

Iceland

4. FINAL CONSUMPTION OF ENERGY BY FUEL*

(Mtce)

	1973	1980	1990	2000	2005	2006	2007	Average annual percent change 73-90	90-07
TFC[1]	**1.46**	**1.83**	**2.34**	**3.01**	**3.18**	**3.41**	**3.58**	**2.82**	**2.53**
Coal and peat	0.00	0.03	0.09	0.14	0.14	0.13	0.16	31.25	3.45
Oil	0.77	0.78	0.85	0.99	1.06	1.15	1.18	0.56	1.95
Gas	-	-	-	-	-	-	-	-	-
Comb. renew/wastes	-	-	-	-	-	-	0.00	-	-
Geothermal	0.44	0.63	0.78	0.78	0.74	0.71	0.65	3.52	-1.08
Solar, wind, tide	-	-	-	-	-	-	-	-	-
Electricity	0.25	0.35	0.48	0.85	0.96	1.11	1.34	3.81	6.21
Heat	-	0.05	0.14	0.25	0.28	0.32	0.25	-	3.53
of which:									
Total industry	**0.38**	**0.50**	**0.60**	**1.03**	**1.09**	**1.20**	**1.43**	**2.62**	**5.27**
Coal and peat	-	0.03	0.09	0.14	0.14	0.13	0.16	-	3.45
Oil	0.16	0.20	0.13	0.16	0.17	0.16	0.16	-1.31	1.33
Gas	-	-	-	-	-	-	-	-	-
Comb. renew/wastes	-	-	-	-	-	-	-	-	-
Geothermal	0.04	0.04	0.06	0.08	0.05	0.05	0.03	2.53	-5.25
Solar, wind, tide	-	-	-	-	-	-	-	-	-
Electricity	0.18	0.24	0.31	0.64	0.72	0.86	1.08	3.19	7.54
Heat	-	-	-	-	-	-	-	-	-
Total transport	**0.18**	**0.23**	**0.30**	**0.30**	**0.32**	**0.43**	**0.45**	**3.02**	**2.36**
Coal and peat	-	-	-	-	-	-	-	-	-
Oil	0.18	0.23	0.30	0.30	0.32	0.43	0.45	3.02	2.36
Gas	-	-	-	-	-	-	-	-	-
Comb. renew/wastes	-	-	-	-	-	-	-	-	-
Electricity	-	-	-	-	-	-	-	-	-
Residential	**0.64**	**0.76**	**0.83**	**0.86**	**0.88**	**0.89**	**0.86**	**1.55**	**0.21**
Coal and peat	0.00	-	-	-	-	-	-	-	-
Oil	0.25	0.10	0.02	0.01	0.01	0.00	0.00	-13.32	-8.85
Gas	-	-	-	-	-	-	-	-	-
Comb. renew/wastes	-	-	-	-	-	-	-	-	-
Geothermal	0.35	0.54	0.63	0.56	0.54	0.52	0.51	3.58	-1.16
Solar, wind, tide	-	-	-	-	-	-	-	-	-
Electricity	0.04	0.08	0.07	0.07	0.08	0.10	0.10	2.88	2.16
Heat	-	0.04	0.11	0.21	0.24	0.27	0.24	-	4.82
Comm & public services	**0.03**	**0.04**	**0.10**	**0.17**	**0.20**	**0.20**	**0.18**	**7.17**	**3.35**
Coal and peat	-	-	-	-	-	-	-	-	-
Oil	-	-	-	-	-	-	0.00	-	-
Gas	-	-	-	-	-	-	-	-	-
Comb. renew/waste	-	-	-	-	-	-	0.00	-	-
Geothermal	0.02	0.02	0.03	0.06	0.07	0.07	0.03	3.13	0.72
Solar, wind, tide	-	-	-	-	-	-	-	-	-
Electricity	0.01	0.02	0.06	0.09	0.11	0.12	0.12	9.56	4.27
Heat	-	0.00	0.01	0.01	0.02	0.02	0.02	-	3.40
Non-energy use	**0.03**	**0.02**	**0.09**	**0.18**	**0.23**	**0.27**	**0.30**	**6.57**	**7.16**
Coal and peat	-	-	-	-	-	-	-	-	-
Oil	0.03	0.02	0.09	0.18	0.23	0.27	0.30	6.57	7.16
Gas	-	-	-	-	-	-	-	-	-

Source: *IEA/OECD Energy Balances of OECD Countries*

(1) Total Final Consumption (TFC) excludes use in transformation and energy sectors.

* Please refer to notes in *Principles and Definitions*.

Iceland

5. COAL BALANCE*

(Mtce)

	1973	1980	1990	2000	2006	2007	2008e	Average annual percent change 73-90	90-07
Production	-	-	-	-	-	-	-	-	-
Imports	0.0	0.0	0.1	0.1	0.1	0.2	0.1	31.3	3.4
Exports	-	-	-	-	-	-	-	-	-
Stock changes	-	-	-	-	-	-	-	x	x
Primary supply	**0.0**	**0.0**	**0.1**	**0.1**	**0.1**	**0.2**	**0.1**	**31.3**	**3.4**
Statistical difference	**-**	**-**	**-**	**-**	**-**	**-**	**..**	**x**	**x**
Total transformation	**-**	**-**	**-**	**-**	**-**	**-**	**..**	**-**	**-**
Electricity and heat gen.	-	-	-	-	-	-	..	-	-
Main activity producers (1)	-	-	-	-	-	-	..	-	-
Autoproducers	-	-	-	-	-	-	..	-	-
Gas works	-	-	-	-	-	-	..	-	-
Coal transformation(2)	-	-	-	-	-	-	..	-	-
BKB plants	-	-	-	-	-	-	..	-	-
Blast furnaces	-	-	-	-	-	-	..	-	-
Coke ovens	-	-	-	-	-	-	..	-	-
Patent fuel plants	-	-	-	-	-	-	..	-	-
Other transformation(3)	-	-	-	-	-	-	..	-	-
Own use	**-**	**-**	**-**	**-**	**-**	**-**	**..**	**-**	**-**
Distribution losses	**-**	**-**	**-**	**-**	**-**	**-**	**..**	**x**	**x**
Final consumption(4)	**0.0**	**0.0**	**0.1**	**0.1**	**0.1**	**0.2**	**..**	**31.3**	**3.4**
Industry sector(5)	-	0.0	0.1	0.1	0.1	0.2	..	-	3.4
Iron and steel	-	*0.0*	*0.1*	*0.1*	*0.1*	*0.1*	..	-	*3.2*
Chemical	-	-	-	-	-	-	..	-	-
Non-metallic minerals	-	-	*0.0*	*0.0*	*0.0*	*0.0*	..	-	*4.8*
Paper, pulp and print	-	-	-	-	-	-	..	-	-
Transport sector(6)	-	-	-	-	-	-	..	-	-
Other sectors(7)	0.0	-	-	-	-	-	..	-	-
Comm. and pub. services	-	-	-	-	-	-	..	-	-
Residential	*0.0*	-	-	-	-	-	..	-	-
Non-energy use	-	-	-	-	-	-	..	-	-

Source: *IEA/OECD Energy Balances of OECD Countries*

(1) Main activity electricity and heat generation includes district heating.

(2) Coal transformation refers to the transformation of coal and peat to secondary and tertiary products (mainly coke, briquettes, coke oven gas and blast furnace gas).

(3) Other transformation includes liquefaction and non-specified transformation.

(4) Final Consumption includes non-energy use and energy use (industry, transport and other sectors).

(5) Please refer to notes in *Principles and Definitions* for detailed explanation.

(6) Transport sector includes rail and inland waterways.

(7) Other sectors includes commercial and public services, agriculture, and residential.

* "Coal" refers to all types of coal, primary (anthracite, coking coal, other bituminous coal, sub-bituminous coal, lignite/brown coal, peat) and derived fuels (including patent fuel, BKB/peat briquettes, coke oven coke, gas coke, coal tar, coke oven gas, gas works gas, blast furnace gas and oxygen steel furnace gas). Quantities have been converted to Mtce using calorific values reported by the respective countries. Please refer to notes in *Principles and Definitions*.

Iceland

6. USE OF COAL FOR SELECTED END-USES*

(million tonnes)

	1978	1980	1990	2000	2005	2006	2007	Average annual percent change 78-90	90-07
Steam coal	**-**	**0.01**	**0.05**	**0.09**	**0.10**	**0.09**	**0.11**	**-**	**4.39**
Total electricity and heat	-	-	-	-	-	-	-	-	-
Main activity producers	-	-	-	-	-	-	-	-	-
Autoproducers	-	-	-	-	-	-	-	-	-
Patent fuel/BKB plants	-	-	-	-	-	-	-	-	-
Coke ovens	-	-	-	-	-	-	-	-	-
Blast furnace inputs	-	-	-	-	-	-	-	-	-
Gas manufacture	-	-	-	-	-	-	-	-	-
Industry sector	-	0.01	0.05	0.09	0.10	0.09	0.11	-	4.39
Iron and steel	-	*0.01*	*0.05*	*0.09*	*0.10*	*0.09*	*0.11*	-	*4.39*
Chemical	-	-	-	-	-	-	-	-	-
Non-metallic minerals	-	-	-	-	-	-	-	-	-
Paper, pulp and print	-	-	-	-	-	-	-	-	-
Other industry	-	-	-	-	-	-	-	-	-
Res, comm & pub serv[1]	-	-	-	-	-	-	-	-	-
Non-energy use	-	-	-	-	-	-	-	-	-
Coking coal	**-**	**-**	**0.01**	**0.01**	**0.01**	**0.02**	**0.03**	**-**	**5.04**
Total electricity and heat	-	-	-	-	-	-	-	-	-
Main activity producers	-	-	-	-	-	-	-	-	-
Autoproducers	-	-	-	-	-	-	-	-	-
Patent fuel/BKB plants	-	-	-	-	-	-	-	-	-
Coke ovens	-	-	-	-	-	-	-	-	-
Blast furnace inputs	-	-	-	-	-	-	-	-	-
Gas manufacture	-	-	-	-	-	-	-	-	-
Industry sector	-	-	0.01	0.01	0.01	0.02	0.03	-	5.04
Iron and steel	-	-	-	-	-	-	-	-	-
Chemical	-	-	-	-	-	-	-	-	-
Non-metallic minerals	-	-	*0.01*	*0.01*	*0.01*	*0.02*	*0.03*	-	*5.04*
Paper, pulp and print	-	-	-	-	-	-	-	-	-
Other industry	-	-	-	-	-	-	-	-	-
Res, comm & pub serv[1]	-	-	-	-	-	-	-	-	-
Non-energy use	-	-	-	-	-	-	-	-	-
Brown coal/lignite	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
Total electricity and heat	-	-	-	-	-	-	-	-	-
Main activity producers	-	-	-	-	-	-	-	-	-
Autoproducers	-	-	-	-	-	-	-	-	-
Patent fuel/BKB plants	-	-	-	-	-	-	-	-	-
Coke ovens	-	-	-	-	-	-	-	-	-
Gas manufacture	-	-	-	-	-	-	-	-	-
Industry sector	-	-	-	-	-	-	-	-	-
Iron and steel	-	-	-	-	-	-	-	-	-
Chemical	-	-	-	-	-	-	-	-	-
Non-metallic minerals	-	-	-	-	-	-	-	-	-
Paper, pulp and print	-	-	-	-	-	-	-	-	-
Other industry	-	-	-	-	-	-	-	-	-
Res, comm & pub serv[1]	-	-	-	-	-	-	-	-	-
Non-energy use	-	-	-	-	-	-	-	-	-

Source: *IEA/OECD Energy Statistics of OECD Countries*

(1) Residential, commercial and public services.

* Please refer to notes in *Principles and Definitions*.

Iceland

7. FUEL PRICES TO END USERS*

	1978[1]	1980	1990	2000	2004	2005	2006	2007	2008
				(US dollars / tce)					
For electricity generation									
Steam coal	..	..	..	..	..	..	..	..	..
Heavy fuel oil	..	..	..	..	..	..	..	..	..
Natural gas	..	..	..	..	..	..	..	..	..
For industry									
Steam coal	..	..	..	..	..	..	..	..	..
Coking coal	..	..	..	..	..	..	..	..	..
High sulphur fuel oil	..	..	..	..	..	..	..	..	..
Low sulphur fuel oil	..	..	..	..	..	..	..	..	..
Natural gas	..	..	..	..	..	..	..	..	..
				(Icelandic krona / unit)[2]					
For electricity generation									
Steam coal	..	..	..	..	..	..	..	..	..
Heavy fuel oil	..	..	..	..	..	..	..	..	..
Natural gas	..	..	..	..	..	..	..	..	..
For industry									
Steam coal	..	..	..	..	..	..	..	..	..
Coking coal	..	..	..	..	..	..	..	..	..
High sulphur fuel oil	..	..	..	..	..	..	..	..	..
Low sulphur fuel oil	..	..	..	..	..	..	..	..	..
Natural gas	..	..	..	..	..	..	..	..	..

Source: *IEA/OECD Energy Prices & Taxes*

(1) Earliest year for which split by coal type is available.

(2) For steam coal, coking coal and heavy fuel oil per metric tonne; for natural gas per 10^7 kilocalories GCV.

* Please refer to notes in *Principles and Definitions*.

8. COAL TRADE BY TYPE OF COAL*

(Mtce)

	1973	1980	1990	2000	2004	2005	2006	2007	2008e
Total imports	**0.00**	**0.03**	**0.09**	**0.14**	**0.15**	**0.14**	**0.13**	**0.16**	**0.12**
Hard coal	0.00	0.01	0.06	0.10	0.10	0.11	0.10	0.13	0.10
Coking coal	*..*	*-*	*0.01*	*0.01*	*0.02*	*0.01*	*0.02*	*0.03*	*0.05*
Steam coal	*..*	*0.01*	*0.05*	*0.08*	*0.08*	*0.10*	*0.09*	*0.10*	*0.06*
Brown coal / lignite	-	-	-	-	-	-	-	-	-
Peat	-	-	-	-	-	-	-	-	-
Coal products[1]	-	0.01	0.03	0.04	0.05	0.03	0.02	0.03	0.02
Total exports	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
Hard coal	-	-	-	-	-	-	-	-	-
Coking coal	*..*	-	-	-	-	-	-	-	-
Steam coal	*..*	-	-	-	-	-	-	-	-
Brown coal / lignite	-	-	-	-	-	-	-	-	-
Peat	-	-	-	-	-	-	-	-	-
Coal products[1]	-	-	-	-	-	-	-	-	-

Source: *IEA/OECD Energy Balances of OECD Countries, IEA/OECD Energy Statistics of OECD Countries*

(1) Coal products includes products derived from coal, for example: coke, coal tar, briquettes, patent fuels.

* Please refer to notes in *Principles and Definitions*.

Iceland

9. HARD COAL IMPORTS BY ORIGIN*

(thousand tonnes)

	1978[1]	1980	1990	2000	2004	2005	2006	2007	2008e
Hard Coal	**-**	**12**	**65**	**101**	**104**	**117**	**108**	**138**	**109**
Coking Coal	**-**	**-**	**13**	**14**	**18**	**14**	**19**	**30**	**50**
Australia	-	-	-	-	-	-	-	-	-
Canada	-	-	-	-	-	-	-	-	-
Czech Republic	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-
Poland	-	-	-	7	6	7	-	-	-
United Kingdom	-	-	13	-	-	-	-	-	-
United States	-	-	-	-	-	-	-	-	50
Other OECD	-	-	-	7	12	7	19	24	-
China, People's Rep.	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-
South Africa	-	-	-	-	-	-	-	-	-
Former USSR[2]	-	-	-	-	-	-	-	-	-
Russia[3]	-	-	-	-	-	-	-	-	-
Other Former USSR[3]	-	-	-	-	-	-	-	*6*	-
Venezuela	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-
Non-specified/other	-	-	-	-	-	-	-	-	-
Steam coal	**-**	**12**	**52**	**87**	**86**	**103**	**89**	**108**	**59**
Australia	-	-	-	-	-	-	-	-	-
Canada	-	-	-	-	-	-	-	-	-
Czech Republic	-	-	-	-	-	-	-	-	-
Germany	-	-	-	6	9	39	-	68	-
Poland	-	12	-	-	-	1	19	3	-
United Kingdom	-	-	-	4	-	-	18	7	-
United States	-	-	52	48	-	9	-	20	-
Other OECD	-	-	-	19	77	54	52	10	59
China, People's Rep.	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	10	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-
South Africa	-	-	-	-	-	-	-	-	-
Former USSR[2]	-	-	-	-	-	-	-	-	-
Russia[3]	-	-	-	-	-	-	-	-	-
Other Former USSR[3]	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-
Non-specified/other	-	-	-	-	-	-	-	-	-

Source: IEA/OECD Coal Statistics

(1) Earliest year for which split by coal type is available.

(2) If no detail.

(3) Data for former republics are not available separately for some OECD member countries.

* Please refer to notes in *Principles and Definitions*.

Ireland*

Chart 1: TPES by fuel (Mtce)

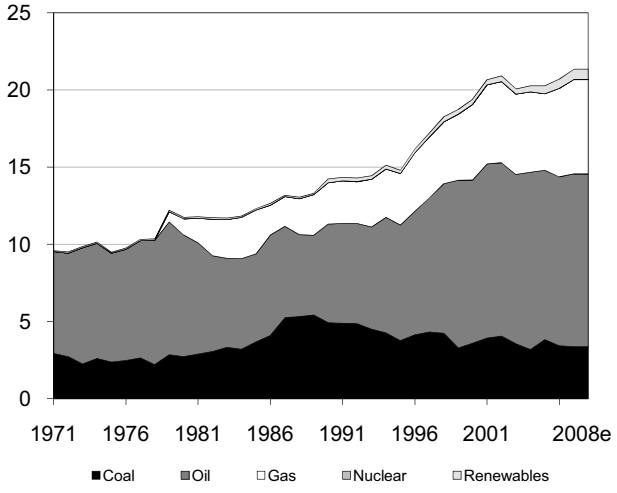


Chart 2: Coal supply indicators (1971 = 100)

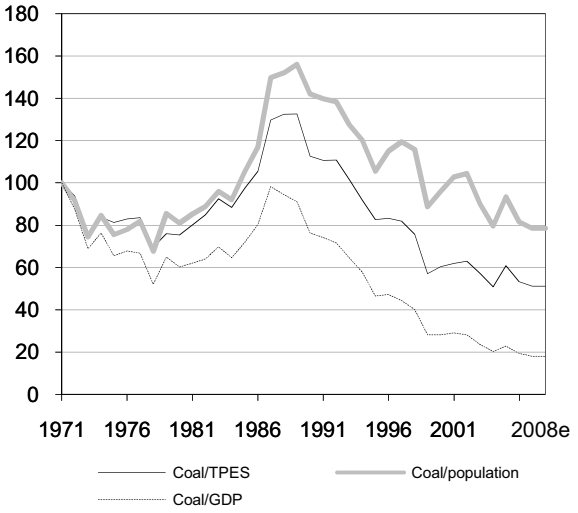


Chart 3: Primary coal supply (Mtce)

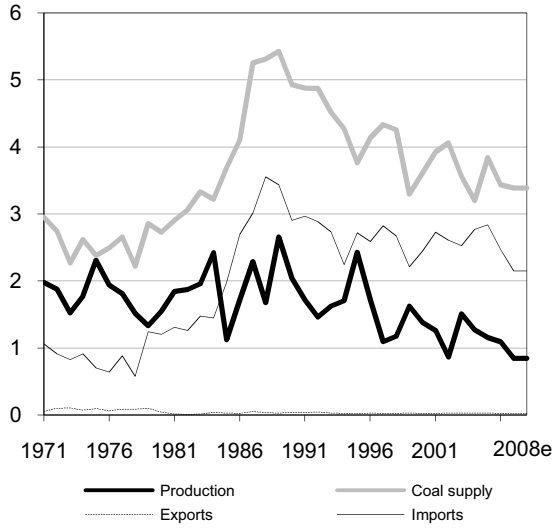


Chart 4: Coal consumption (Mtce)

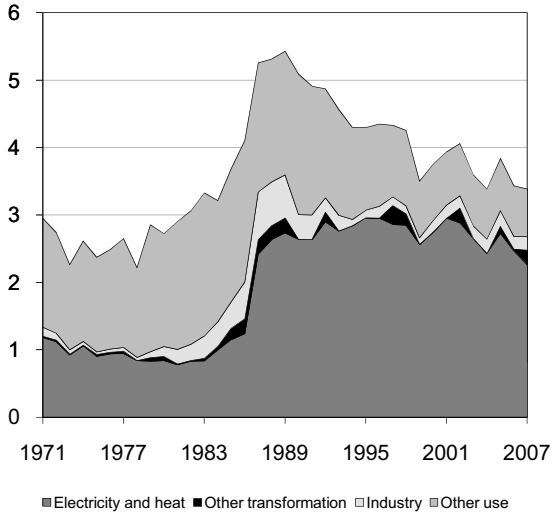


Chart 5: Electricity generation by fuel (TWh)

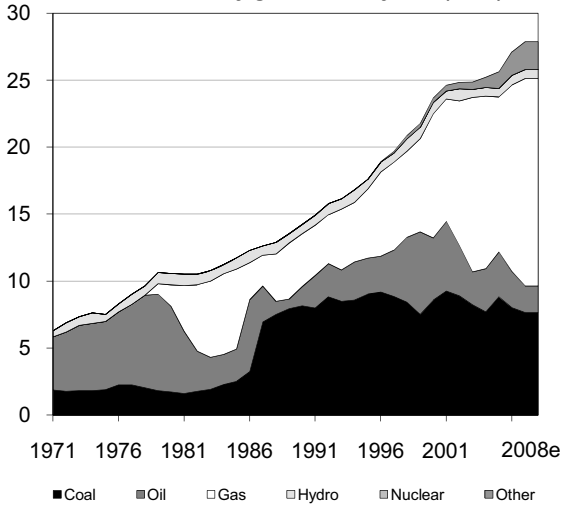
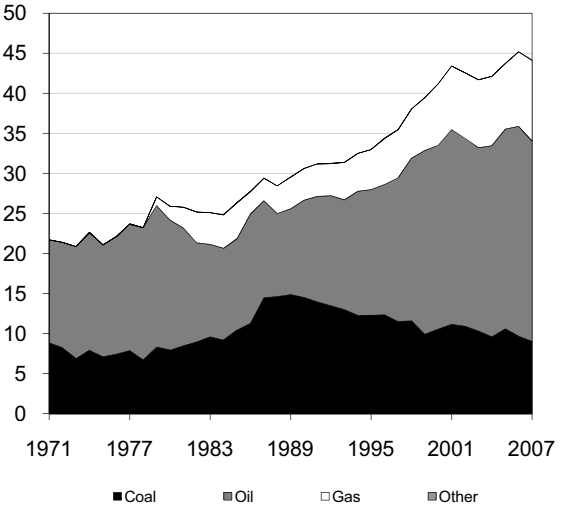


Chart 6: CO_2 emissions by fuel (Mt CO_2)



*Please refer to notes in *Principles and Definitions* . Peat is included in coal for all charts.

Ireland

1. TOTAL PRIMARY ENERGY SUPPLY (TPES) BY FUEL*

	1973	1980	1990	2000	2006	2007	2008e	Average annual percent change 73-90	90-07
TPES (Mtce)	**9.87**	**11.77**	**14.24**	**19.43**	**20.93**	**21.51**	**21.60**	**2.18**	**2.46**
Coal and peat	2.26	2.73	4.93	3.61	3.43	3.39	3.50	4.69	-2.19
Oil	7.52	7.88	6.39	10.56	10.95	11.18	10.84	-0.95	3.34
Gas	-	1.05	2.67	4.91	5.73	6.12	6.40	-	4.99
Comb. renew/waste	-	-	0.15	0.20	0.31	0.34	0.38	-	4.73
Nuclear	-	-	-	-	-	-	-	-	-
Hydro	0.08	0.10	0.09	0.10	0.09	0.08	0.12	0.47	-0.26
Geothermal	-	-	0.00	0.00	0.00	0.00	0.00	-	24.81
Solar, wind, tide	-	-	0.00	0.03	0.20	0.24	0.30	-	61.70
Net electricity trade[1]	0.01	-	-	0.01	0.22	0.16	0.06	-	-
Heat[2]	-	-	-	-	-	-	-	-	-

Source: *IEA/OECD Energy Balances of OECD Countries*

(1) Net trade between OECD and non-OECD countries.

(2) Ambient heat from heat pumps used in the transformation sector.

2. ENERGY SUPPLY, GDP AND POPULATION*

	1973	1980	1990	2000	2006	2007	2008e	Average annual percent change 73-90	90-07
GDP (2000 bil. US$)	25	34	49	97	134	142	139	4.05	6.49
TPES/GDP[1]	0.40	0.34	0.29	0.20	0.16	0.15	0.15	-1.80	-3.79
Population (millions)	3.1	3.4	3.5	3.8	4.3	4.4	4.4	0.78	1.29
TPES/population[1]	3.21	3.46	4.06	5.11	4.92	4.94	4.87	1.39	1.16
TPES/GDP[2]	197.9	171.4	145.4	100.0	77.8	75.4	77.0	-1.80	-3.79
Coal and peat supply/GDP[2]	244.4	213.7	271.1	100.0	68.6	63.8	67.1	0.61	-8.15
Elec. consumption/GDP[2]	118.1	120.0	116.0	100.0	92.1	86.8	..	-0.11	-1.69
Elec. generation (TWh)	7	11	14	24	27	28	29	3.96	4.04
Industrial production[2]	..	16.7	30.9	100.0	134.1	143.8	142.4	-	9.47

Source: *IEA/OECD Energy Balances of OECD Countries* , *OECD Main Economic Indicators*

(1) TPES/GDP in units of tce/2000 thousand US$, TPES/population in units of tce/capita.

(2) As index, 2000 = 100

3. COAL AND PEAT PRODUCTION BY TYPE*

	1978[1]	1980	1990	2000	2006	2007	2008e	Average annual percent change 78-90	90-07
Mtce:									
Coking coal	-	-	-	-	-	-	-	-	-
Steam coal	0.02	0.06	0.02	-	-	-	-	0.45	-
Brown coal	-	-	-	-	-	-	-	-	-
Peat	1.50	1.49	2.02	1.38	1.09	0.84	0.94	2.50	-4.99
Mt:									
Coking coal	-	-	-	-	-	-	-	-	-
Steam coal	0.02	0.06	0.03	-	-	-	-	1.46	-
Brown coal	-	-	-	-	-	-	-	-	-
Peat	5.24	5.21	6.52	4.81	3.69	2.77	3.09	1.82	-4.90

Source: *IEA/OECD Energy Balances of OECD Countries, IEA/OECD Energy Statistics of OECD Countries*

(1) Earliest year for which split by coal type is available.

* Please refer to notes in *Principles and Definitions* .

Ireland

4. FINAL CONSUMPTION OF ENERGY BY FUEL*

(Mtce)

	1973	1980	1990	2000	2005	2006	2007	Average annual percent change 73-90	90-07
TFC[1]	**7.30**	**9.06**	**10.82**	**15.23**	**17.11**	**18.12**	**17.67**	**2.34**	**2.93**
Coal and peat	1.33	1.82	2.45	1.01	1.01	0.94	0.91	3.68	-5.68
Oil	5.08	5.57	5.33	9.29	10.76	11.49	11.03	0.29	4.37
Gas	0.15	0.62	1.43	2.26	2.09	2.23	2.26	14.31	2.74
Comb. renew/wastes	-	-	0.15	0.17	0.26	0.27	0.29	-	3.87
Geothermal	-	-	0.00	0.00	0.00	0.00	0.00	-	24.81
Solar, wind, tide	-	-	0.00	0.00	0.00	0.00	0.00	-	21.09
Electricity	0.76	1.06	1.46	2.49	2.99	3.18	3.18	3.94	4.69
Heat	-	-	-	-	-	-	-	-	-
of which:									
Total industry	**2.43**	**3.10**	**2.49**	**3.58**	**3.69**	**3.98**	**3.68**	**0.14**	**2.33**
Coal and peat	0.06	0.15	0.37	0.17	0.23	0.19	0.20	10.91	-3.47
Oil	2.06	2.04	0.97	1.64	1.51	1.56	1.29	-4.33	1.67
Gas	0.04	0.52	0.51	0.67	0.77	0.90	0.93	17.04	3.61
Comb. renew/wastes	-	-	0.09	0.14	0.23	0.23	0.22	-	5.32
Geothermal	-	-	-	-	-	-	-	-	-
Solar, wind, tide	-	-	-	-	-	-	-	-	-
Electricity	0.27	0.39	0.55	0.95	0.94	1.10	1.04	4.28	3.82
Heat	-	-	-	-	-	-	-	-	-
Total transport	**1.61**	**2.20**	**2.34**	**4.91**	**6.00**	**6.52**	**6.82**	**2.22**	**6.48**
Coal and peat	-	-	-	-	-	-	-	-	-
Oil	1.61	2.20	2.34	4.90	6.00	6.50	6.78	2.22	6.45
Gas	-	-	-	-	-	-	-	-	-
Comb. renew/wastes	-	-	-	-	0.00	0.00	0.03	-	-
Electricity	-	-	0.00	0.00	0.01	0.01	0.01	-	7.18
Residential	**2.58**	**2.60**	**3.35**	**3.56**	**4.14**	**4.37**	**4.15**	**1.55**	**1.27**
Coal and peat	1.26	1.57	2.06	0.83	0.73	0.71	0.67	2.92	-6.41
Oil	0.89	0.50	0.55	1.30	1.60	1.74	1.61	-2.81	6.57
Gas	0.11	0.10	0.17	0.63	0.86	0.90	0.85	2.41	10.00
Comb. renew/wastes	-	-	0.06	0.02	0.02	0.02	0.03	-	-3.95
Geothermal	-	-	-	-	0.00	0.00	0.00	-	-
Solar, wind, tide	-	-	0.00	0.00	0.00	0.00	0.00	-	21.09
Electricity	0.32	0.44	0.51	0.78	0.92	0.99	0.99	2.80	4.00
Heat	-	-	-	-	-	-	-	-	-
Comm & public services	**0.36**	**0.83**	**1.40**	**1.94**	**2.36**	**2.28**	**2.41**	**8.37**	**3.27**
Coal and peat	-	0.11	0.02	0.01	0.04	0.04	0.04	-	2.96
Oil	0.19	0.50	0.90	0.83	0.83	0.80	0.81	9.60	-0.57
Gas	-	-	0.13	0.42	0.45	0.44	0.48	-	7.79
Comb. renew/waste	-	-	-	-	0.00	0.01	0.01	-	-
Geothermal	-	-	0.00	0.00	0.00	0.00	0.00	-	15.98
Solar, wind, tide	-	-	-	-	-	-	-	-	-
Electricity	0.17	0.22	0.34	0.69	1.04	1.00	1.07	4.32	6.91
Heat	-	-	-	-	-	-	-	-	-
Non-energy use	**0.30**	**0.29**	**0.89**	**0.79**	**0.44**	**0.51**	**0.19**	**6.71**	**-8.71**
Coal and peat	-	-	-	-	-	-	-	-	-
Oil	0.30	0.29	0.28	0.24	0.44	0.51	0.19	-0.37	-2.22
Gas	-	-	0.61	0.55	-	-	-	-	-

Source: *IEA/OECD Energy Balances of OECD Countries*

(1) Total Final Consumption (TFC) excludes use in transformation and energy sectors.

* Please refer to notes in *Principles and Definitions*.

Ireland

5. COAL BALANCE*

(Mtce)

	1973	1980	1990	2000	2006	2007	2008e	Average annual percent change 73-90	90-07
Production	1.5	1.5	2.0	1.4	1.1	0.8	0.9	1.7	-5.1
Imports	0.8	1.2	2.9	2.4	2.5	2.1	2.4	7.7	-1.8
Exports	-0.1	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-6.4	-3.6
Stock changes	0.0	0.0	0.0	-0.2	-0.1	0.4	0.2	x	x
Primary supply	**2.3**	**2.7**	**4.9**	**3.6**	**3.4**	**3.4**	**3.5**	**4.7**	**-2.2**
Statistical difference	**-**	**-0.0**	**0.4**	**0.3**	**0.1**	**-0.1**	**..**	**x**	**x**
Total transformation	**-0.9**	**-0.9**	**-2.8**	**-2.9**	**-2.6**	**-2.3**	**..**	**6.7**	**-1.1**
Electricity and heat gen.	-0.9	-0.8	-2.6	-2.7	-2.5	-2.3	..	6.4	-0.9
Main activity producers (1)	*-0.9*	*-0.8*	*-2.6*	*-2.7*	*-2.5*	*-2.2*	*..*	*6.3*	*-0.9*
Autoproducers	-	*-0.0*	*-0.0*	*-0.0*	*-0.0*	*-0.0*	*..*	-	*-1.8*
Gas works	-0.0	-0.0	-	-	-	-	..	-	-
Coal transformation(2)	-	0.0	-0.2	-0.1	-0.1	-0.1	..	-	-4.3
BKB plants	-	*0.0*	*-0.2*	*-0.1*	*-0.1*	*-0.1*	*..*	-	*-4.3*
Blast furnaces	-	-	-	-	-	-	*..*	-	-
Coke ovens	-	-	-	-	-	-	*..*	-	-
Patent fuel plants	-	-	-	*0.0*	*0.0*	*c*	*..*	-	-
Other transformation(3)	-	-	-	-	-	-	..	-	-
Own use	**-**	**-**	**-0.0**	**-0.0**	**-0.0**	**-0.0**	**..**	**-**	**3.9**
Distribution losses	**-**	**-**	**-**	**-**	**-**	**-**	**..**	**x**	**x**
Final consumption(4)	**1.3**	**1.8**	**2.5**	**1.0**	**0.9**	**0.9**	**..**	**3.7**	**-5.7**
Industry sector(5)	0.1	0.1	0.4	0.2	0.2	0.2	..	10.9	-3.5
Iron and steel	*0.0*	*0.0*	*0.0*	-	-	-	*..*	*8.2*	-
Chemical	-	-	*0.0*	-	-	-	*..*	-	-
Non-metallic minerals	-	-	*0.2*	*0.1*	*0.2*	*0.2*	*..*	-	*-0.3*
Paper, pulp and print	-	-	-	-	*0.0*	-	*..*	-	-
Transport sector(6)	-	-	-	-	-	-	..	-	-
Other sectors(7)	1.3	1.7	2.1	0.8	0.7	0.7	..	3.0	-6.2
Comm. and pub. services	-	*0.1*	*0.0*	*0.0*	*0.0*	*0.0*	*..*	-	*3.0*
Residential	*1.3*	*1.6*	*2.1*	*0.8*	*0.7*	*0.7*	*..*	*2.9*	*-6.4*
Non-energy use	-	-	-	-	-	-	..	-	-

Source: *IEA/OECD Energy Balances of OECD Countries*

(1) Main activity electricity and heat generation includes district heating.

(2) Coal transformation refers to the transformation of coal and peat to secondary and tertiary products (mainly coke, briquettes, coke oven gas and blast furnace gas).

(3) Other transformation includes liquefaction and non-specified transformation.

(4) Final Consumption includes non-energy use and energy use (industry, transport and other sectors).

(5) Please refer to notes in *Principles and Definitions* for detailed explanation.

(6) Transport sector includes rail and inland waterways.

(7) Other sectors includes commercial and public services, agriculture, and residential.

* "Coal" refers to all types of coal, primary (anthracite, coking coal, other bituminous coal, sub-bituminous coal, lignite/brown coal, peat) and derived fuels (including patent fuel, BKB/peat briquettes, coke oven coke, gas coke, coal tar, coke oven gas, gas works gas, blast furnace gas and oxygen steel furnace gas). Quantities have been converted to Mtce using calorific values reported by the respective countries. Please refer to notes in *Principles and Definitions*.

Ireland

6. USE OF COAL FOR SELECTED END-USES*

(million tonnes)

	1978	1980	1990	2000	2005	2006	2007	Average annual percent change 78-90	90-07
Steam coal	**0.54**	**1.07**	**3.18**	**2.94**	**2.87**	**2.59**	**2.38**	**15.88**	**-1.70**
Total electricity and heat	0.02	0.05	1.97	2.35	2.29	2.04	1.82	45.40	-0.47
Main activity producers	*0.02*	*0.05*	*1.96*	*2.34*	*2.28*	*2.04*	*1.82*	*45.37*	*-0.45*
Autoproducers	-	-	*0.01*	*0.01*	*0.01*	-	-	-	-
Patent fuel/BKB plants	-	-	-	0.03	0.04	0.04	-	-	-
Coke ovens	-	-	-	-	-	-	-	-	-
Blast furnace inputs	-	-	-	-	-	-	-	-	-
Gas manufacture	0.03	0.02	-	-	-	-	-	-	-
Industry sector	0.04	0.14	0.34	0.18	0.25	0.20	0.21	19.66	-2.70
Iron and steel	-	-	*0.00*	-	-	-	-	-	-
Chemical	-	-	*0.03*	-	-	-	-	-	-
Non-metallic minerals	-	-	*0.19*	*0.11*	*0.18*	*0.17*	*0.18*	-	*-0.35*
Paper, pulp and print	-	-	-	-	-	*0.00*	-	-	-
Other industry	*0.04*	*0.14*	*0.12*	*0.07*	*0.07*	*0.03*	*0.03*	*9.43*	*-7.60*
Res, comm & pub serv[1]	0.46	0.81	1.05	0.36	0.31	0.30	0.33	7.25	-6.69
Non-energy use	-	-	-	-	-	-	-	-	-
Coking coal	**-**	**-**	**0.01**	**-**	**-**	**-**	**-**	**-**	**-**
Total electricity and heat	-	-	-	-	-	-	-	-	-
Main activity producers	-	-	-	-	-	-	-	-	-
Autoproducers	-	-	-	-	-	-	-	-	-
Patent fuel/BKB plants	-	-	-	-	-	-	-	-	-
Coke ovens	-	-	-	-	-	-	-	-	-
Blast furnace inputs	-	-	-	-	-	-	-	-	-
Gas manufacture	-	-	-	-	-	-	-	-	-
Industry sector	-	-	0.01	-	-	-	-	-	-
Iron and steel	-	-	*0.01*	-	-	-	-	-	-
Chemical	-	-	-	-	-	-	-	-	-
Non-metallic minerals	-	-	-	-	-	-	-	-	-
Paper, pulp and print	-	-	-	-	-	-	-	-	-
Other industry	-	-	-	-	-	-	-	-	-
Res, comm & pub serv[1]	-	-	-	-	-	-	-	-	-
Non-energy use	-	-	-	-	-	-	-	-	-
Brown coal/lignite	**-**	**-**	**0.04**	**0.04**	**0.05**	**0.01**	**0.01**	**-**	**-5.70**
Total electricity and heat	-	-	-	-	-	-	-	-	-
Main activity producers	-	-	-	-	-	-	-	-	-
Autoproducers	-	-	-	-	-	-	-	-	-
Patent fuel/BKB plants	-	-	-	-	-	-	-	-	-
Coke ovens	-	-	-	-	-	-	-	-	-
Gas manufacture	-	-	-	-	-	-	-	-	-
Industry sector	-	-	-	-	-	-	-	-	-
Iron and steel	-	-	-	-	-	-	-	-	-
Chemical	-	-	-	-	-	-	-	-	-
Non-metallic minerals	-	-	-	-	-	-	-	-	-
Paper, pulp and print	-	-	-	-	-	-	-	-	-
Other industry	-	-	-	-	-	-	-	-	-
Res, comm & pub serv[1]	-	-	0.04	0.04	0.05	0.01	0.01	-	-6.11
Non-energy use	-	-	-	-	-	-	-	-	-

Source: *IEA/OECD Energy Statistics of OECD Countries*

(1) Residential, commercial and public services.

* Please refer to notes in *Principles and Definitions*.

Ireland

7. FUEL PRICES TO END USERS*

	1978[1]	1980	1990	2000	2004	2005	2006	2007	2008
				(US dollars / tce)					
For electricity generation									
Steam coal	..	..	63.11	34.26	75.99	79.21	69.22	94.31	112.40
Heavy fuel oil	..	..	82.37	103.73	150.48	210.16	253.40	250.49	418.02
Natural gas	..	..	90.97	77.04	c	c	c	c	c
For industry									
Steam coal	..	..	..	..	..	..	..	..	..
Coking coal	x	x	x	x	x	x	x	x	x
High sulphur fuel oil	102.26	180.84	115.42	168.24	243.22	309.06	367.94	326.91	330.36
Low sulphur fuel oil	..	..	..	..	..	..	..	..	..
Natural gas	189.24	507.59	257.44	88.82	226.89	290.90	362.36	c	479.29
				(Euro / unit)[2]					
For electricity generation									
Steam coal	..	..	42.89	32.89	54.13	56.42	48.82	60.92	68.03
Heavy fuel oil	..	..	85.67	152.42	164.05	229.12	273.51	247.64	387.23
Natural gas	..	..	89.83	107.47	c	c	c	c	c
For industry									
Steam coal	..	..	..	..	..	..	..	..	..
Coking coal	x	x	x	x	x	x	x	x	x
High sulphur fuel oil	91.68	151.35	120.05	247.21	265.16	336.94	397.14	323.19	306.03
Low sulphur fuel oil	..	..	..	..	..	..	..	..	..
Natural gas	161.07	403.32	254.20	123.90	234.83	301.08	371.32	c	421.50

Source: *IEA/OECD Energy Prices & Taxes*

(1) Earliest year for which split by coal type is available.

(2) For steam coal, coking coal and heavy fuel oil per metric tonne; for natural gas per 10^7 kilocalories GCV.

* Please refer to notes in *Principles and Definitions*.

8. COAL TRADE BY TYPE OF COAL*

(Mtce)

	1973	1980	1990	2000	2004	2005	2006	2007	2008e
Total imports	**0.83**	**1.20**	**2.90**	**2.44**	**2.77**	**2.84**	**2.47**	**2.15**	**2.36**
Hard coal	0.81	1.19	2.85	2.42	2.74	2.80	2.46	2.14	2.35
Coking coal	*..*	-	*0.01*	-	-	-	-	-	-
Steam coal	*..*	*1.19*	*2.83*	*2.42*	*2.74*	*2.80*	*2.46*	*2.14*	*2.35*
Brown coal / lignite	-	-	0.03	0.03	0.03	0.04	0.01	0.01	0.01
Peat	-	-	-	-	-	-	-	-	-
Coal products[1]	0.01	0.01	0.03	-	-	0.00	0.00	c	-
Total exports	**0.10**	**0.04**	**0.03**	**0.02**	**0.03**	**0.03**	**0.02**	**0.02**	**0.03**
Hard coal	0.07	0.04	0.03	0.00	0.00	0.01	0.00	0.01	0.02
Coking coal	*..*	-	-	-	-	-	-	-	-
Steam coal	*..*	*0.04*	*0.03*	*0.00*	*0.00*	*0.01*	*0.00*	*0.01*	*0.02*
Brown coal / lignite	-	-	0.00	-	-	-	-	-	0.00
Peat	-	0.00	-	-	-	-	-	-	-
Coal products[1]	0.03	-	0.01	0.02	0.02	0.02	0.02	0.01	0.01

Source: *IEA/OECD Energy Balances of OECD Countries, IEA/OECD Energy Statistics of OECD Countries*

(1) Coal products includes products derived from coal, for example: coke, coal tar, briquettes, patent fuels.

* Please refer to notes in *Principles and Definitions*.

Ireland

9. HARD COAL IMPORTS BY ORIGIN*

(thousand tonnes)

	1978[1]	1980	1990	2000	2004	2005	2006	2007	2008e
Hard Coal	**565**	**1188**	**3081**	**2747**	**2886**	**2947**	**2587**	**2253**	**2475**
Coking Coal	**-**	**-**	**14**	**-**	**-**	**-**	**-**	**-**	**-**
Australia	-	-	-	-	-	-	-	-	-
Canada	-	-	-	-	-	-	-	-	-
Czech Republic	-	-	-	-	-	-	-	-	-
Germany	-	-	2	-	-	-	-	-	-
Poland	-	-	2	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-
United States	-	-	2	-	-	-	-	-	-
Other OECD	-	-	5	-	-	-	-	-	-
China, People's Rep.	-	-	-	-	-	-	-	-	-
Colombia	-	-	3	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-
South Africa	-	-	-	-	-	-	-	-	-
Former USSR[2]	-	-	-	-	-	-	-	-	-
Russia[3]	-	-	-	-	-	-	-	-	-
Other Former USSR[3]	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-
Non-specified/other	-	-	-	-	-	-	-	-	-
Steam coal	**565**	**1188**	**3067**	**2747**	**2886**	**2947**	**2587**	**2253**	**2475**
Australia	6	2	-	292	1224	299	-	387	394
Canada	-	-	-	-	-	-	-	-	-
Czech Republic	-	-	-	-	-	-	-	-	-
Germany	-	9	21	-	-	-	-	1	-
Poland	331	483	430	176	268	288	62	235	239
United Kingdom	214	276	302	123	62	19	5	40	79
United States	-	408	1277	452	-	-	-	73	142
Other OECD	-	-	115	-	38	36	36	36	36
China, People's Rep.	-	-	7	-	4	9	-	-	-
Colombia	-	-	667	904	1244	1013	1091	322	780
Indonesia	-	-	17	327	-	602	779	633	478
South Africa	11	10	71	418	4	634	375	488	289
Former USSR[2]	-	-	-	-	-	-	-	-	-
Russia[3]	-	-	*15*	-	*3*	-	-	-	-
Other Former USSR[3]	-	-	-	-	-	*9*	*8*	-	-
Venezuela	-	-	5	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-
Non-specified/other	3	-	140	55	39	38	231	38	38

Source: IEA/OECD Coal Statistics

(1) Earliest year for which split by coal type is available.

(2) If no detail.

(3) Data for former republics are not available separately for some OECD member countries.

* Please refer to notes in *Principles and Definitions*.

Ireland

12. COAL IMPORT VALUES BY ORIGIN*

(average unit value, CIF, US$/tonne)

	1988	1990	1995	2003	2004	2005	2006	2007	2008
Coking coal[1]	**116.43**	**107.07**	**101.41**	**149.97**	**178.22**	**412.43**	**355.05**	**86.14**	**102.25**
Imports from:									
Australia	..	..	..	..	..	..	..	..	..
Canada	..	..	..	..	..	..	..	..	..
Czech Republic	..	..	..	..	..	..	..	..	..
Poland	..	100.40	..	145.10	..	..	..	..	..
United States	..	..	98.08	110.07	161.54	..	..	..	..
China	..	..	..	..	..	..	..	..	..
Colombia	..	106.09	..	..	..	..	..	..	..
South Africa	..	..	..	..	..	..	..	..	96.99
Former USSR[2]	..	..	..	..	..	..	..	77.79	95.68
Steam coal[3]	**71.77**	**70.76**	**69.55**	**50.08**	**80.90**	**74.91**	**101.78**	**125.15**	**143.08**
Imports from:									
Australia	105.83	..	41.76	55.91	71.47	84.49	..	618.20	142.53
Canada	..	..	..	..	..	..	..	..	..
Czech Republic	84.39	..	..	..	..	..	..	..	..
Poland	87.96	98.25	99.09	90.38	97.77	114.10	149.15	177.54	256.72
United States	67.13	62.06	57.93	40.79	..	..	..	..	..
China	219.48	82.52	..	..	..	..	..	..	123.41
Colombia	90.69	72.99	36.07	..	..	..	..	..	..
South Africa	57.78	85.34	84.69	37.23	67.44	64.62	70.73	85.73	126.72
Former USSR[2]	48.74	81.51	70.14	..	..	713.45	..	..	..

Source: IEA/OECD Coal Statistics

Note: On occasion, shipment of extremely small quantities of high valued coal results in high import costs.

(1) Weighted average of individual countries using import volumes as weights. Prices exclude intra-EU trade.

(2) Former USSR until 1991, Russia starting in 1992.

(3) Bituminous steam coal only. Weighted average of individual countries using volumes as weights. Prices exclude intra-EU trade.

* Please refer to notes in *Principles and Definitions*.

Italy*

Chart 1: TPES by fuel (Mtce)

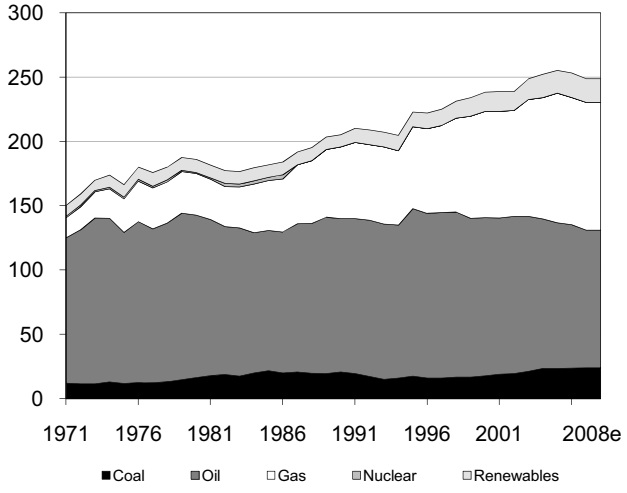


Chart 2: Coal supply indicators (1971 = 100)

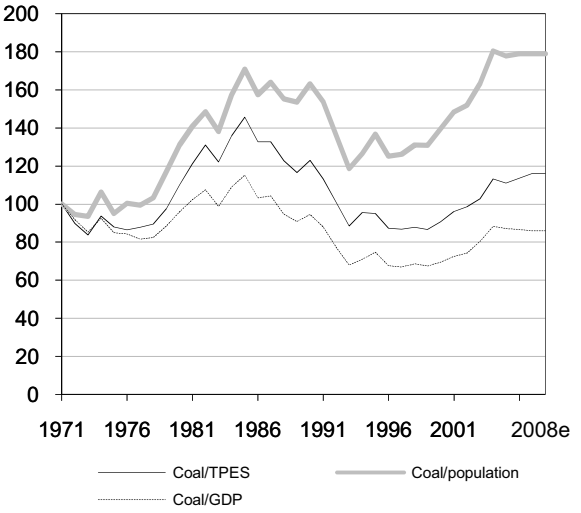


Chart 3: Primary coal supply (Mtce)

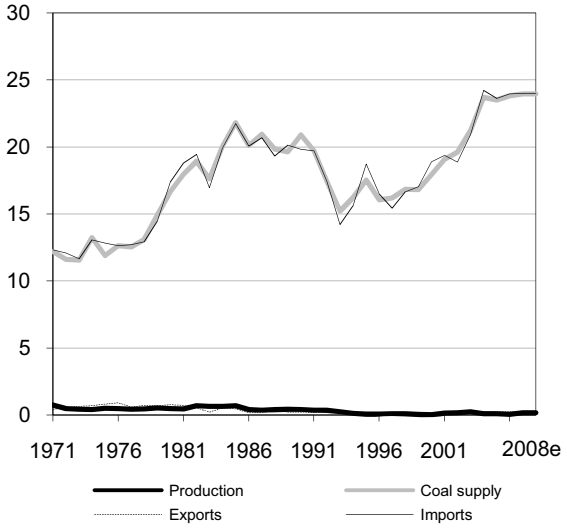


Chart 4: Coal consumption (Mtce)

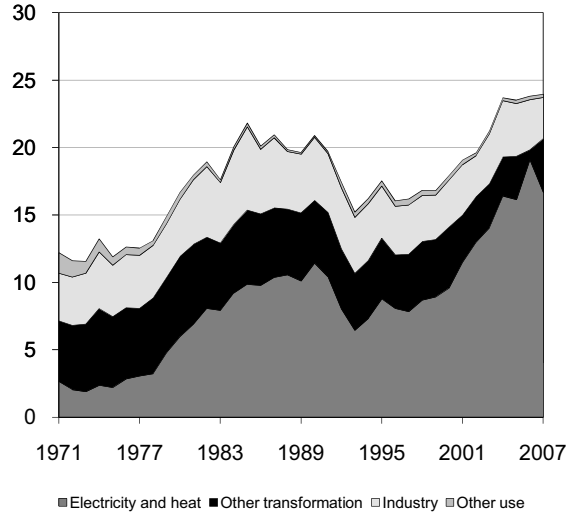


Chart 5: Electricity generation by fuel (TWh)

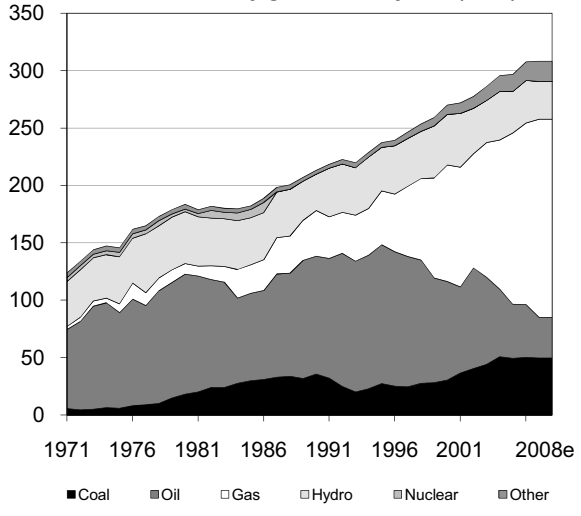
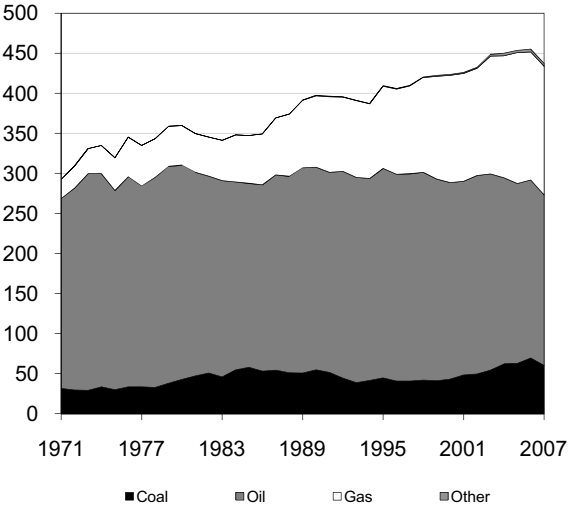


Chart 6: CO_2 emissions by fuel (Mt CO_2)



*Please refer to notes in *Principles and Definitions* . Peat is included in coal for all charts.

Italy

1. TOTAL PRIMARY ENERGY SUPPLY (TPES) BY FUEL*

	1973	1980	1990	2000	2006	2007	2008e	Average annual percent change 73-90	90-07
TPES (Mtce)	**170.17**	**186.91**	**209.57**	**243.81**	**258.76**	**254.52**	**249.26**	**1.23**	**1.15**
Coal and peat	11.57	16.69	20.90	17.94	23.82	23.97	24.10	3.54	0.81
Oil	129.00	126.05	119.23	122.86	111.64	107.19	100.68	-0.46	-0.62
Gas	20.32	32.46	55.70	82.75	98.82	99.30	99.29	6.11	3.46
Comb. renew/waste	0.35	1.31	1.34	3.22	6.90	6.62	7.43	8.27	9.84
Nuclear	1.17	0.82	-	-	-	-	-	-	-
Hydro	4.61	5.56	3.89	5.43	4.54	4.03	4.91	-1.00	0.22
Geothermal	3.05	3.28	4.24	6.08	7.09	7.14	7.08	1.97	3.11
Solar, wind, tide	-	-	0.01	0.09 e	0.42	0.57	0.91	-	28.95
Net electricity trade[1]	0.11	0.75	4.26	5.45	5.53	5.69	4.86	24.13	1.72
Heat[2]	-	-	-	-	-	-	-	-	-

Source: *IEA/OECD Energy Balances of OECD Countries*

(1) Net trade between OECD and non-OECD countries.

(2) Ambient heat from heat pumps used in the transformation sector.

2. ENERGY SUPPLY, GDP AND POPULATION*

	1973	1980	1990	2000	2006	2007	2008e	Average annual percent change 73-90	90-07
GDP (2000 bil. US$)	576	739	938	1097	1167	1184	1179	2.91	1.38
TPES/GDP[1]	0.30	0.25	0.22	0.22	0.22	0.22	0.21	-1.63	-0.23
Population (millions)	54.8	56.4	56.7	56.9	58.9	59.3	59.0	0.21	0.26
TPES/population[1]	3.11	3.31	3.69	4.28	4.39	4.29	4.22	1.02	0.88
TPES/GDP[2]	133.1	113.8	100.6	100.0	99.8	96.8	95.1	-1.63	-0.23
Coal and peat supply/GDP[2]	122.9	138.1	136.3	100.0	124.8	123.8	125.0	0.61	-0.56
Elec. consumption/GDP[2]	85.9	86.9	92.0	100.0	106.4	105.0	..	0.40	0.78
Elec. generation (TWh)	144	183	213	270	308	308	312	2.34	2.19
Industrial production[2]	62.7	77.6	86.5	100.0	99.3	101.4	98.1	1.91	0.94

Source: *IEA/OECD Energy Balances of OECD Countries* , *OECD Main Economic Indicators*

(1) TPES/GDP in units of tce/2000 thousand US$, TPES/population in units of tce/capita.

(2) As index, 2000 = 100

3. COAL AND PEAT PRODUCTION BY TYPE*

	1978[1]	1980	1990	2000	2006	2007	2008e	Average annual percent change 78-90	90-07
Mtce:									
Coking coal	-	-	-	-	-	-	-	-	-
Steam coal	0.01	-	0.05	-	0.02	0.14	0.11	20.81	6.17
Brown coal	0.43	0.46	0.34	0.00	-	-	-	-1.89	-
Peat	-	-	-	-	-	-	-	-	-
Mt:									
Coking coal	-	-	-	-	-	-	-	-	-
Steam coal	0.01	-	0.06	-	0.02	0.16	0.12	20.81	6.07
Brown coal	1.20	1.29	0.96	0.01	-	-	-	-1.89	-
Peat	-	-	-	-	-	-	-	-	-

Source: *IEA/OECD Energy Balances of OECD Countries, IEA/OECD Energy Statistics of OECD Countries*

(1) Earliest year for which split by coal type is available.

* Please refer to notes in *Principles and Definitions* .

Italy

4. FINAL CONSUMPTION OF ENERGY BY FUEL*

(Mtce)

	1973	1980	1990	2000	2005	2006	2007	Average annual percent change 73-90	90-07
TFC[1]	**137.94**	**146.04**	**164.30**	**183.06**	**203.39**	**202.19**	**198.95**	**1.03**	**1.13**
Coal and peat	4.66	4.77	4.83	3.82	4.18	3.99	3.30	0.21	-2.21
Oil	99.91	91.71	87.88	87.78	91.39	91.15	90.18	-0.75	0.15
Gas	18.25	28.86	43.69	55.12	61.34	58.41	57.39	5.27	1.62
Comb. renew/wastes	-	1.06	1.23	2.49	2.59	3.22	2.73	-	4.78
Geothermal	-	-	0.29	0.30	0.30	0.30	0.30	-	0.35
Solar, wind, tide	-	-	0.01	0.02	0.04	0.05	0.07	-	15.04
Electricity	15.12	19.63	26.37	33.54	36.97	37.94	38.00	3.33	2.17
Heat	-	-	-	-	6.59	7.13	6.97	-	-
of which:									
Total industry	**55.80**	**51.20**	**48.70**	**54.64**	**53.62**	**52.78**	**54.06**	**-0.80**	**0.62**
Coal and peat	3.78	4.25	4.69	3.49	3.93	3.74	3.05	1.28	-2.50
Oil	30.18	22.30	11.54	9.57	9.90	9.50	10.29	-5.50	-0.67
Gas	12.36	12.93	18.53	23.74	21.62	21.05	22.41	2.41	1.13
Comb. renew/wastes	-	0.17	0.31	0.41	0.39	0.39	0.35	-	0.61
Geothermal	-	-	-	-	-	-	-	-	-
Solar, wind, tide	-	-	-	-	-	-	-	-	-
Electricity	9.48	11.55	13.63	17.43	17.79	18.10	17.96	2.16	1.64
Heat	-	-	-	-	-	-	-	-	-
Total transport	**27.09**	**34.79**	**46.93**	**55.44**	**58.30**	**58.86**	**59.08**	**3.29**	**1.36**
Coal and peat	0.21	0.00	-	-	-	-	-	-	-
Oil	26.24	33.83	45.81	53.93	56.29	56.78	56.91	3.33	1.29
Gas	0.18	0.37	0.30	0.47	0.54	0.59	0.69	3.13	5.08
Comb. renew/wastes	-	-	-	-	0.26	0.23	0.20	-	-
Electricity	0.46	0.59	0.83	1.05	1.22	1.26	1.28	3.44	2.60
Residential	**38.26**	**41.38**	**37.52**	**40.42**	**45.43**	**42.66**	**39.59**	**-0.11**	**0.32**
Coal and peat	0.67	0.52	0.14	0.09	0.01	0.01	0.01	-8.90	-15.31
Oil	28.65	22.71	13.60	9.54	8.59	7.63	6.49	-4.29	-4.26
Gas	5.71	12.61	16.42	21.39	26.83	24.35	22.82	6.41	1.95
Comb. renew/wastes	-	0.90 e	0.88	1.88	1.73	2.32	1.94	-	4.79
Geothermal	-	-	-	-	-	-	-	-	-
Solar, wind, tide	-	-	0.01	0.02	0.04	0.05	0.07	-	15.04
Electricity	3.23	4.65	6.48	7.51	8.23	8.31	8.26	4.18	1.44
Heat	-	-	-	-	-	-	-	-	-
Comm & public services	**2.22**	**3.10**	**11.38**	**15.37**	**20.38**	**21.12**	**20.58**	**10.09**	**3.55**
Coal and peat	-	-	-	-	-	-	-	-	-
Oil	0.44	0.58	0.45	0.46	0.61	0.66	0.63	0.19	1.96
Gas	-	-	6.01	7.96	10.69	10.86	10.14	-	3.12
Comb. renew/waste	-	-	-	-	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-	-	-
Solar, wind, tide	-	-	-	-	-	-	-	-	-
Electricity	1.79	2.52	4.92	6.95	9.08	9.59	9.81	6.14	4.15
Heat	-	-	-	-	-	-	-	-	-
Non-energy use	**11.83**	**12.42**	**14.78**	**12.04**	**13.70**	**14.28**	**13.54**	**1.32**	**-0.52**
Coal and peat	-	-	-	0.24	0.23	0.24	0.24	-	-
Oil	11.83	9.48	12.39	10.41	12.05	12.69	12.20	0.27	-0.09
Gas	-	2.94	2.40	1.40	1.42	1.35	1.10	-	-4.48

Source: *IEA/OECD Energy Balances of OECD Countries*

(1) Total Final Consumption (TFC) excludes use in transformation and energy sectors.

* Please refer to notes in *Principles and Definitions*.

Italy

5. COAL BALANCE*

(Mtce)

	1973	1980	1990	2000	2006	2007	2008e	Average annual percent change 73-90	90-07
Production	0.4	0.5	0.4	0.0	0.0	0.1	0.1	-0.5	-5.8
Imports	11.7	17.4	19.8	18.9	24.0	24.0	23.9	3.2	1.1
Exports	-0.6	-0.7	-0.2	-0.1	-0.2	-0.2	-0.3	-6.5	0.3
Stock changes	0.1	-0.4	0.9	-0.8	0.1	0.0	0.4	x	x
Primary supply	**11.6**	**16.7**	**20.9**	**17.9**	**23.8**	**24.0**	**24.1**	**3.5**	**0.8**
Statistical difference	**0.1**	**0.0**	**0.2**	**-0.5**	**2.7**	**-0.6**	**..**	**x**	**x**
Total transformation	**-4.9 e**	**-9.8 e**	**-15.0 e**	**-13.2 e**	**-22.4 e**	**-19.9 e**	**..**	**6.8**	**1.7**
Electricity and heat gen.	-1.9	-6.0	-11.4	-9.6	-19.1	-16.7	..	11.1	2.2
Main activity producers (1)	*-1.9*	*-4.9*	*-10.2*	*-9.6*	*-18.9*	*-16.6*	*..*	*10.4*	*2.9*
Autoproducers	-	*-1.1*	*-1.3*	*..*	*-0.2*	*-0.1*	*..*	-	*-16.7*
Gas works	-0.0	-0.0	-	-	-	-	..	-	-
Coal transformation(2)	-3.0 e	-3.8 e	-3.5 e	-3.7 e	-3.3 e	-3.3 e	..	1.0	-0.5
BKB plants	-	-	-	-	-	-	..	-	-
Blast furnaces	*-2.2 e*	*-2.2 e*	*-2.3 e*	*-2.1 e*	*-2.3 e*	*-2.2 e*	*..*	*0.3*	*-0.2*
Coke ovens	*-0.8*	*-1.6*	*-1.2*	*-1.6*	*-1.0*	*-1.1*	*..*	*2.4*	*-0.9*
Patent fuel plants	-	*0.0*	-	-	-	-	..	-	-
Other transformation(3)	-	-	-	-	-	-	..	-	-
Own use	**-1.7**	**-2.0**	**-1.2**	**-0.4**	**-0.1**	**-0.1**	**..**	**-1.8**	**-14.6**
Distribution losses	**-0.4**	**-0.2**	**-0.1**	**-0.0**	**-**	**-0.1 e**	**..**	**x**	**x**
Final consumption(4)	**4.7**	**4.8**	**4.8**	**3.8**	**4.0**	**3.3**	**..**	**0.2**	**-2.2**
Industry sector(5)	3.8	4.2	4.7	3.5	3.7	3.1	..	1.3	-2.5
Iron and steel	*2.8 e*	*2.9 e*	*2.9 e*	*2.7 e*	*2.8 e*	*2.2 e*	*..*	*0.4*	*-1.7*
Chemical	*0.3*	*0.2*	*0.2*	*0.0*	*0.0*	*0.0*	*..*	*-1.0*	*-17.3*
Non-metallic minerals	*0.2*	*0.5*	*1.3*	*0.5*	*0.9*	*0.8*	*..*	*11.3*	*-2.7*
Paper, pulp and print	-	*0.0*	*0.0*	*0.0*	-	-	*..*	-	-
Transport sector(6)	0.2	0.0	-	-	-	-	..	-	-
Other sectors(7)	0.7	0.5	0.1	0.1	0.0	0.0	..	-8.9	-15.3
Comm. and pub. services	-	-	-	-	-	-	*..*	-	-
Residential	*0.7*	*0.5*	*0.1*	*0.1*	*0.0*	*0.0*	*..*	*-8.9*	*-15.3*
Non-energy use	-	-	-	0.2	0.2	0.2	..	-	-

Source: *IEA/OECD Energy Balances of OECD Countries*

(1) Main activity electricity and heat generation includes district heating.

(2) Coal transformation refers to the transformation of coal and peat to secondary and tertiary products (mainly coke, briquettes, coke oven gas and blast furnace gas).

(3) Other transformation includes liquefaction and non-specified transformation.

(4) Final Consumption includes non-energy use and energy use (industry, transport and other sectors).

(5) Please refer to notes in *Principles and Definitions* for detailed explanation.

(6) Transport sector includes rail and inland waterways.

(7) Other sectors includes commercial and public services, agriculture, and residential.

* "Coal" refers to all types of coal, primary (anthracite, coking coal, other bituminous coal, sub-bituminous coal, lignite/brown coal, peat) and derived fuels (including patent fuel, BKB/peat briquettes, coke oven coke, gas coke, coal tar, coke oven gas, gas works gas, blast furnace gas and oxygen steel furnace gas). Quantities have been converted to Mtce using calorific values reported by the respective countries. Please refer to notes in *Principles and Definitions*.

Italy

6. USE OF COAL FOR SELECTED END-USES*

(million tonnes)

	1978	1980	1990	2000	2005	2006	2007	Average annual percent change 78-90	90-07
Steam coal	**2.51**	**5.79**	**12.69**	**11.36**	**18.61**	**18.71**	**18.92**	**14.46**	**2.38**
Total electricity and heat	2.07	4.96	10.78	9.53	16.00	15.94	16.96	14.77	2.70
Main activity producers	*2.02*	*4.92*	*10.77*	*9.53*	*15.84*	*15.80*	*16.90*	*14.97*	*2.69*
Autoproducers	*0.05*	*0.04*	*0.02*	-	*0.16*	*0.14*	*0.06*	*-8.42*	*8.19*
Patent fuel/BKB plants	0.01	0.01	-	-	-	-	-	-	-
Coke ovens	-	-	-	-	-	-	-	-	-
Blast furnace inputs	-	-	0.17	0.94	1.15	1.30	0.83	-	9.77
Gas manufacture	-	-	-	-	-	-	-	-	-
Industry sector	0.31	0.61	1.68	0.88	1.45	1.46	1.12	15.08	-2.37
Iron and steel	*0.03*	*0.05*	*0.22*	*0.26*	*0.52*	*0.52*	*0.20*	*19.30*	*-0.42*
Chemical	*0.01*	*0.01*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*-9.91*	*-1.68*
Non-metallic minerals	*0.20*	*0.43*	*1.40*	*0.54*	*0.92*	*0.94*	*0.91*	*17.56*	*-2.49*
Paper, pulp and print	-	*0.04*	-	*0.00*	-	-	-	-	-
Other industry	*0.07*	*0.07*	*0.06*	*0.08*	*0.00*	*0.00*	*0.00*	*-1.12*	*-16.32*
Res, comm & pub serv[1]	0.07	0.22	0.06	0.00	0.01	0.01	0.01	-1.87	-10.47
Non-energy use	-	-	-	-	-	-	-	-	-
Coking coal	**9.91**	**11.24**	**8.63**	**6.66**	**5.63**	**6.09**	**6.20**	**-1.14**	**-1.93**
Total electricity and heat	-	-	-	-	-	-	-	-	-
Main activity producers	-	-	-	-	-	-	-	-	-
Autoproducers	-	-	-	-	-	-	-	-	-
Patent fuel/BKB plants	-	-	-	-	-	-	-	-	-
Coke ovens	9.90	11.22	8.61	6.38	5.06	5.81	5.91	-1.15	-2.19
Blast furnace inputs	-	-	-	-	-	-	-	-	-
Gas manufacture	-	-	-	-	-	-	-	-	-
Industry sector	-	-	-	-	-	-	-	-	-
Iron and steel	-	-	-	-	-	-	-	-	-
Chemical	-	-	-	-	-	-	-	-	-
Non-metallic minerals	-	-	-	-	-	-	-	-	-
Paper, pulp and print	-	-	-	-	-	-	-	-	-
Other industry	-	-	-	-	-	-	-	-	-
Res, comm & pub serv[1]	-	-	-	-	-	-	-	-	-
Non-energy use	-	-	-	0.23	0.22	0.23	0.23	-	-
Brown coal/lignite	**1.27**	**1.39**	**1.09**	**0.03**	**0.01**	**0.01**	**0.00**	**-1.27**	**-28.09**
Total electricity and heat	1.20	1.29	1.06	0.00	-	-	-	-1.07	-
Main activity producers	*1.20*	*1.29*	*1.06*	*0.00*	-	-	-	*-1.07*	-
Autoproducers	-	-	-	-	-	-	-	-	-
Patent fuel/BKB plants	-	-	-	-	-	-	-	-	-
Coke ovens	-	-	-	-	-	-	-	-	-
Gas manufacture	-	-	-	-	-	-	-	-	-
Industry sector	0.04	0.05	0.03	0.03	0.01	0.01	0.00	-0.49	-11.67
Iron and steel	*0.03*	*0.03*	*0.02*	-	-	-	-	*-2.55*	-
Chemical	-	-	-	-	-	-	-	-	-
Non-metallic minerals	*0.01*	*0.02*	*0.01*	*0.01*	*0.01*	*0.01*	*0.00*	*5.02*	*-4.66*
Paper, pulp and print	-	-	-	-	-	-	-	-	-
Other industry	*0.00*	-	*0.00*	*0.02*	-	-	-	*1503.17*	-
Res, comm & pub serv[1]	0.03	0.05	-	-	-	-	-	-	-
Non-energy use	-	-	-	-	-	-	-	-	-

Source: *IEA/OECD Energy Statistics of OECD Countries*

(1) Residential, commercial and public services.

* Please refer to notes in *Principles and Definitions*.

Italy

7. FUEL PRICES TO END USERS*

	1978[1]	1980	1990	2000	2004	2005	2006	2007	2008
				(US dollars / tce)					
For electricity generation									
Steam coal	41.32	57.37	67.72	c	c	c	c	c	c
Heavy fuel oil	62.53	132.16	98.15	c	c	c	c	c	c
Natural gas	63.55	134.63	90.90	c	c	c	c	c	c
For industry									
Steam coal	70.05	56.68	58.84	43.46	72.13	83.23	78.59	97.48	163.22
Coking coal	69.79	69.57	64.88	53.26	81.00	108.96	117.95	124.19	199.90
High sulphur fuel oil	63.44	132.49	136.94	161.05	..	..	..	..	..
Low sulphur fuel oil	..	..	..	155.19	210.37	278.73	311.73	345.19	469.07
Natural gas	64.94	134.95	122.20	c	233.67	273.65	353.23	381.96	502.82
				(Euro / unit)[2]					
For electricity generation									
Steam coal	16.03	22.46	37.13	c	c	c	c	c	c
Heavy fuel oil	37.56	80.11	83.32	c	c	c	c	c	c
Natural gas	35.79	76.51	72.34	c	c	c	c	c	c
For industry									
Steam coal	27.01	22.05	32.06	41.51	51.12	58.98	55.14	62.64	98.28
Coking coal	29.04	29.21	38.15	54.90	61.94	83.33	89.31	86.12	129.90
High sulphur fuel oil	38.11	80.31	116.25	239.64	..	..	..	..	..
Low sulphur fuel oil	..	..	..	230.93	232.25	307.72	340.73	345.59	440.01
Natural gas	36.57	76.69	97.25	c	241.85	283.23	361.96	358.50	442.20

Source: *IEA/OECD Energy Prices & Taxes*

(1) Earliest year for which split by coal type is available.

(2) For steam coal, coking coal and heavy fuel oil per metric tonne; for natural gas per 10^7 kilocalories GCV.

* Please refer to notes in *Principles and Definitions*.

8. COAL TRADE BY TYPE OF COAL*

(Mtce)

	1973	1980	1990	2000	2004	2005	2006	2007	2008e
Total imports	**11.67**	**17.39**	**19.83**	**18.90**	**24.22**	**23.62**	**23.95**	**24.00**	**23.91**
Hard coal	11.48	17.22	19.67	18.39	23.14	22.78	23.24	23.58	23.68
Coking coal	*..*	*12.03*	*9.14*	*7.61*	*5.36*	*6.11*	*6.33*	*6.65*	*6.42*
Steam coal	*..*	*5.20*	*10.53*	*10.78*	*17.77*	*16.66*	*16.91*	*16.93*	*17.26*
Brown coal / lignite	0.04	0.04	0.05	0.00	0.00	0.00	0.00	0.00	0.00
Peat	-	-	-	-	-	-	-	-	-
Coal products[1]	0.15	0.13	0.11	0.51	1.07	0.84	0.71	0.42	0.23
Total exports	**0.63**	**0.75**	**0.20**	**0.12**	**0.24**	**0.23**	**0.22**	**0.21**	**0.28**
Hard coal	-	-	-	0.00	-	-	-	-	0.04
Coking coal	*..*	-	-	-	-	-	-	-	-
Steam coal	*..*	-	-	*0.00*	-	-	-	-	*0.04*
Brown coal / lignite	-	-	-	-	-	-	-	-	-
Peat	-	-	-	-	-	-	-	-	-
Coal products[1]	0.63	0.75	0.20	0.12	0.24	0.23	0.22	0.21	0.24

Source: *IEA/OECD Energy Balances of OECD Countries, IEA/OECD Energy Statistics of OECD Countries*

(1) Coal products includes products derived from coal, for example: coke, coal tar, briquettes, patent fuels.

* Please refer to notes in *Principles and Definitions*.

Italy

9. HARD COAL IMPORTS BY ORIGIN*

(thousand tonnes)

	1978[1]	1980	1990	2000	2004	2005	2006	2007	2008e
Hard Coal	**12458**	**17197**	**20445**	**19015**	**24666**	**24150**	**24632**	**24953**	**25099**
Coking Coal	**10007**	**11377**	**8648**	**7198**	**5074**	**5784**	**5988**	**6289**	**6071**
Australia	1347	1206	1045	2463	2000	2109	2216	2135	2093
Canada	-	-	212	1280	649	637	966	1084	984
Czech Republic	-	-	-	-	-	-	-	-	-
Germany	2537	2513	804	-	-	-	-	-	-
Poland	1525	678	158	-	-	283	88	98	-
United Kingdom	-	-	-	-	-	-	-	-	-
United States	3027	5858	6236	3281	2260	2431	2672	2972	2971
Other OECD	-	-	12	-	-	-	-	-	-
China, People's Rep.	-	-	-	-	-	-	-	-	-
Colombia	-	-	15	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-
South Africa	-	-	-	174	165	205	-	-	-
Former USSR[2]	1036	986	-	-	-	-	-	-	-
Russia[3]	-	-	*131*	-	-	*14*	*19*	-	*23*
Other Former USSR[3]	-	-	-	-	-	-	*27*	-	-
Venezuela	-	-	-	-	-	105	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-
Non-specified/other	535	136	35	-	-	-	-	-	-
Steam coal	**2451**	**5820**	**11797**	**11817**	**19592**	**18366**	**18644**	**18664**	**19028**
Australia	-	-	-	1141	1077	682	881	951	830
Canada	-	10	-	-	261	506	105	-	-
Czech Republic	-	-	-	-	-	-	-	-	-
Germany	-	88	109	1	-	1	-	-	-
Poland	1437	1210	507	912	119	182	198	-	-
United Kingdom	52	-	-	-	-	-	-	-	-
United States	-	1327	4800	4	69	204	-	81	283
Other OECD	-	-	148	-	-	1	58	662	1646
China, People's Rep.	-	53	310	369	483	-	-	-	-
Colombia	-	-	290	1759	2923	2997	2034	2112	2429
Indonesia	-	-	-	1919	5867	6800	8734	7885	7212
South Africa	960	3132	4884	3548	5737	4395	4779	5178	4596
Former USSR[2]	-	-	-	-	-	-	-	-	-
Russia[3]	-	-	*609*	*993*	*1895*	*1082*	*814*	*803*	*893*
Other Former USSR[3]	-	-	-	*56*	*367*	*1025*	*706*	*577*	*633*
Venezuela	-	-	140	1115	788	445	335	340	395
Vietnam	-	-	-	-	-	-	-	-	-
Non-specified/other	2	-	-	-	6	46	-	75	111

Source: IEA/OECD Coal Statistics

(1) Earliest year for which split by coal type is available.

(2) If no detail.

(3) Data for former republics are not available separately for some OECD member countries.

* Please refer to notes in *Principles and Definitions*.

Italy

12. COAL IMPORT VALUES BY ORIGIN*

(average unit value, CIF, US$/tonne)

	1988	1990	1995	2003	2004	2005	2006	2007	2008
Coking coal[1]	**59.39**	**61.39**	**57.69**	**60.39**	**77.24**	**103.02**	**112.05**	**118.05**	**188.97**
Imports from:									
Australia	54.52	57.32	52.91	56.77	69.84	111.81	130.25	126.24	240.02
Canada	59.50	57.65	57.67	58.98	75.03	119.76	137.04	131.04	232.32
Czech Republic	..	..	..	..	..	..	..	488.51	752.71
Poland	59.07	64.68	62.38	61.35	..	128.50	114.32	476.51	..
United States	57.84	62.37	62.18	66.83	91.04	113.75	126.23	132.19	165.11
China	..	..	..	..	..	..	..	..	..
Colombia	..	68.24	..	..	85.35	87.23	..	87.00	152.03
South Africa	38.72	..	49.38	50.20	67.82	74.08	67.51	101.09	159.46
Former USSR[2]	49.77	54.53	45.76	..	58.51	77.71	78.34	86.60	150.61
Steam coal[3]	**47.82**	**51.84**	**50.48**	**42.45**	**63.54**	**73.20**	**69.16**	**86.00**	**143.68**
Imports from:									
Australia	44.68	..	45.90	40.22	55.89	..	..	..	163.91
Canada	382.11	..	2798.99	514.74	..	1441.74	588.70	427.07	311.61
Czech Republic	..	..	..	..	..	..	..	..	..
Poland	48.68	58.63	51.68	135.86	144.04	125.35	67.12	111.14	440.45
United States	55.55	56.62	54.54	43.08	72.57	81.23	873.35	..	158.43
China	38.99	47.34	51.34	42.74	68.09	..	..	..	..
Colombia	40.09	56.10	53.06	43.89	66.74	72.04	74.47	82.16	145.21
South Africa	35.15	44.39	44.85	41.33	68.34	74.49	70.07	92.44	153.17
Former USSR[2]	37.66	42.54	45.77	45.20	71.19	74.31	74.14	93.36	160.60

Source: IEA/OECD Coal Statistics

Note: On occasion, shipment of extremely small quantities of high valued coal results in high import costs.

(1) Weighted average of individual countries using import volumes as weights. Prices exclude intra-EU trade.

(2) Former USSR until 1991, Russia starting in 1992.

(3) Bituminous steam coal only. Weighted average of individual countries using volumes as weights. Prices exclude intra-EU trade.

* Please refer to notes in *Principles and Definitions*.

Japan*

Chart 1: TPES by fuel (Mtce)

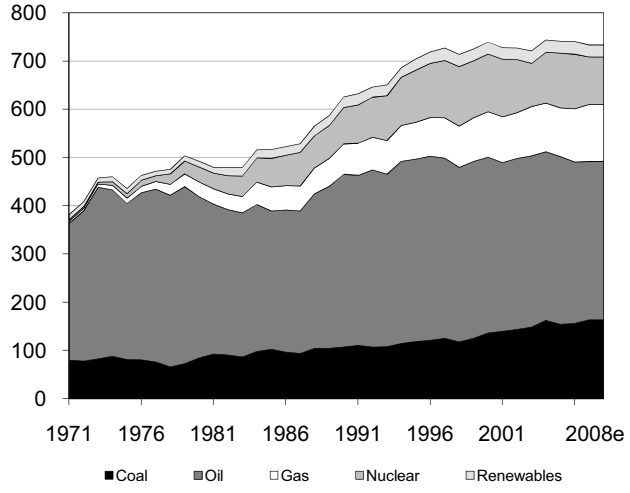


Chart 2: Coal supply indicators (1971 = 100)

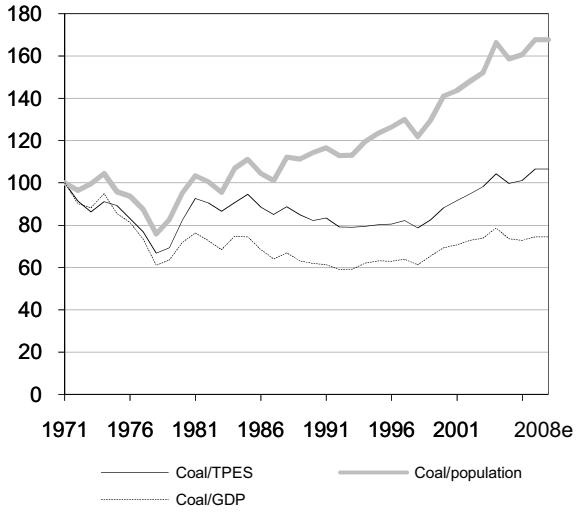


Chart 3: Primary coal supply (Mtce)

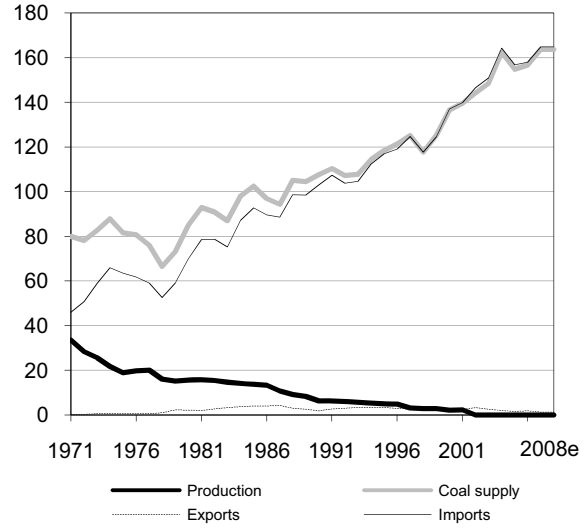


Chart 4: Coal consumption (Mtce)

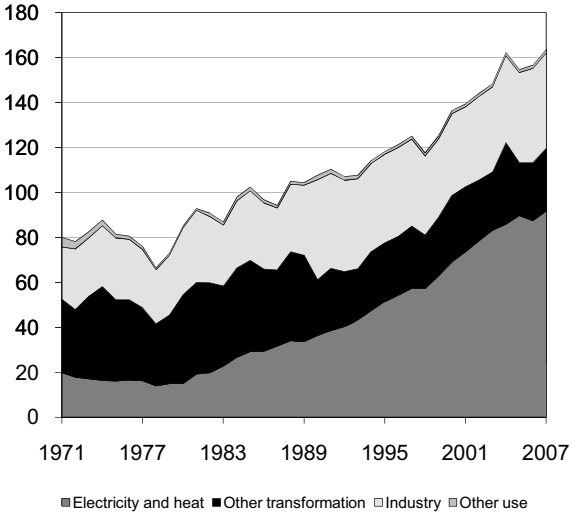


Chart 5: Electricity generation by fuel (TWh)

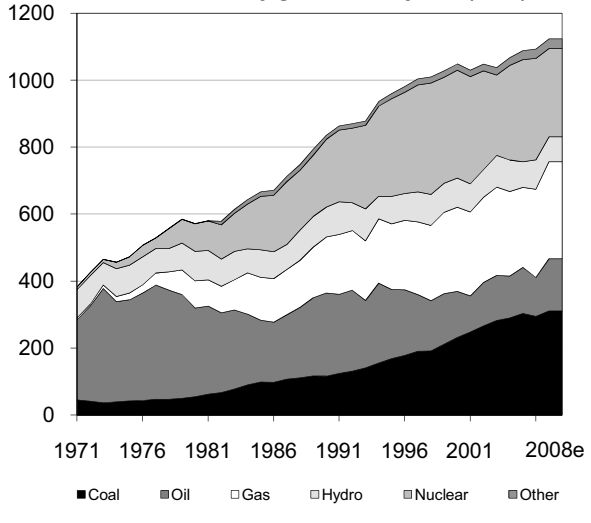
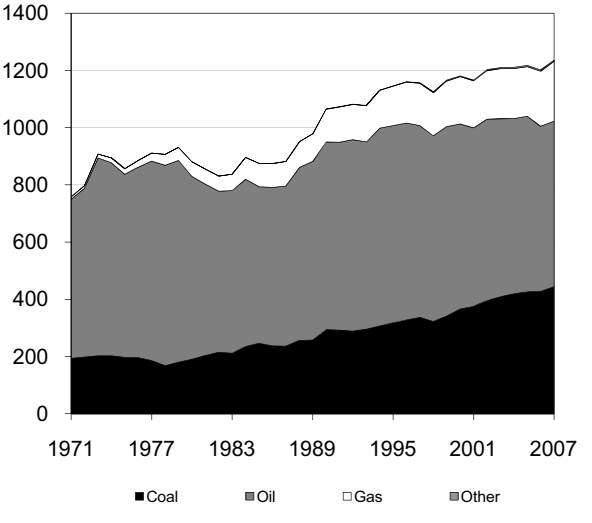


Chart 6: CO_2 emissions by fuel (Mt CO_2)



*Please refer to notes in *Principles and Definitions* . Peat is included in coal for all charts.

Japan

1. TOTAL PRIMARY ENERGY SUPPLY (TPES) BY FUEL*

	1973	1980	1990	2000	2006	2007	2008e	Average annual percent change 73-90	90-07
TPES (Mtce)	**457.67**	**492.18**	**625.84**	**739.55**	**740.42**	**733.60**	**701.59**	**1.86**	**0.94**
Coal and peat	82.66	85.08	107.70	136.61	156.72	163.68	161.14	1.57	2.49
Oil	355.61	333.83	357.74	364.59	334.00	328.31	302.61	0.04	-0.50
Gas	7.25	30.57	63.09	93.79	110.65	118.64	119.63	13.57	3.78
Comb. renew/waste	-	-	7.12	8.35	10.22	10.54	8.91	-	2.33
Nuclear	3.61	30.75	75.30	119.90	112.96	98.22	95.45	19.56	1.58
Hydro	8.20	10.85	10.97	10.72	10.75	9.09	9.12	1.72	-1.10
Geothermal	0.33	1.11	2.25	4.43	4.08	4.03	3.65	11.95	3.48
Solar, wind, tide	-	-	1.67	1.17	1.04	1.09	1.09	-	-2.45
Net electricity trade[1]	-	-	-	-	-	-	-	-	-
Heat[2]	-	-	-	-	-	-	-	-	-

Source: *IEA/OECD Energy Balances of OECD Countries*

(1) Net trade between OECD and non-OECD countries.

(2) Ambient heat from heat pumps used in the transformation sector.

2. ENERGY SUPPLY, GDP AND POPULATION*

	1973	1980	1990	2000	2006	2007	2008e	Average annual percent change 73-90	90-07
GDP (2000 bil. US$)	2219	2801	4122	4667	5099	5205	5165	3.71	1.38
TPES/GDP[1]	0.21	0.18	0.15	0.16	0.15	0.14	0.14	-1.79	-0.44
Population (millions)	108.7	116.8	123.5	126.8	127.8	127.8	127.6	0.75	0.20
TPES/population[1]	4.21	4.21	5.07	5.83	5.80	5.74	5.50	1.10	0.74
TPES/GDP[2]	130.1	110.9	95.8	100.0	91.6	89.0	85.7	-1.79	-0.44
Coal and peat supply/GDP[2]	127.3	103.8	89.3	100.0	105.0	107.4	106.6	-2.06	1.10
Elec. consumption/GDP[2]	92.5	90.7	90.0	100.0	95.3	95.9	..	-0.17	0.38
Elec. generation (TWh)	465	573	836	1049	1093	1123	1078	3.50	1.76
Industrial production[2]	56.5	66.9	98.5	100.0	106.0	108.9	105.5	3.32	0.60

Source: *IEA/OECD Energy Balances of OECD Countries* , *OECD Main Economic Indicators*

(1) TPES/GDP in units of tce/2000 thousand US$, TPES/population in units of tce/capita.

(2) As index, 2000 = 100

3. COAL AND PEAT PRODUCTION BY TYPE*

	1978[1]	1980	1990	2000	2006	2007	2008e	Average annual percent change 78-90	90-07
Mtce:									
Coking coal	8.72	7.28	-	-	-	-	-	-	-
Steam coal	7.23	8.28	6.30	2.17	-	-	-	-1.15	-
Brown coal	0.02	0.02	-	-	-	-	-	-	-
Peat	-	-	-	-	-	-	-	-	-
Mt:									
Coking coal	8.66	6.94	-	-	-	-	-	-	-
Steam coal	9.99	11.08	7.98	2.96	-	-	-	-1.85	-
Brown coal	0.04	0.03	-	-	-	-	-	-	-
Peat	-	-	-	-	-	-	-	-	-

Source: *IEA/OECD Energy Balances of OECD Countries, IEA/OECD Energy Statistics of OECD Countries*

(1) Earliest year for which split by coal type is available.

* Please refer to notes in *Principles and Definitions* .

Japan

4. FINAL CONSUMPTION OF ENERGY BY FUEL*

(Mtce)

	1973	1980	1990	2000	2005	2006	2007	Average annual percent change 73-90	90-07
TFC[1]	**334.26**	**331.27**	**428.99**	**492.12**	**494.50**	**492.76**	**488.14**	**1.48**	**0.76**
Coal and peat	28.81	30.53	46.47	37.82	41.49	43.36	43.95	2.85	-0.33
Oil	244.37	223.65	262.85	299.36	286.33	277.95	266.45	0.43	0.08
Gas	10.03	13.88	21.77	33.00	41.03	45.03	47.93	4.66	4.75
Comb. renew/wastes	-	-	3.75	3.80	3.69	3.81	3.94	-	0.29
Geothermal	-	-	0.11	0.32	0.31	0.29	0.29	-	5.74
Solar, wind, tide	-	-	1.67	1.15	0.81	0.77	0.77	-	-4.44
Electricity	51.00	63.06	92.09	115.90	119.98	120.72	123.97	3.54	1.76
Heat	0.04	0.15	0.29	0.77	0.86	0.82	0.82	12.32	6.44
of which:									
Total industry	**149.84**	**130.33**	**147.26**	**141.74**	**137.40**	**140.96**	**141.58**	**-0.10**	**-0.23**
Coal and peat	26.03	29.75	44.56	36.45	40.12	41.93	42.55	3.21	-0.27
Oil	85.06	56.41	52.38	49.81	44.19	44.38	42.29	-2.81	-1.25
Gas	2.95	3.90	5.28	7.32	9.53	10.60	11.38	3.48	4.62
Comb. renew/wastes	-	-	3.60	3.74	3.65	3.77	3.90	-	0.47
Geothermal	-	-	-	-	-	-	-	-	-
Solar, wind, tide	-	-	-	-	-	-	-	-	-
Electricity	35.80	40.27	41.44	44.43	39.91	40.28	41.47	0.86	0.00
Heat	-	-	-	-	-	-	-	-	-
Total transport	**58.22**	**77.11**	**102.50**	**125.68**	**121.75**	**120.09**	**117.72**	**3.38**	**0.82**
Coal and peat	0.29	-	-	-	-	-	-	-	-
Oil	56.31	75.24	100.44	123.40	119.41	117.78	115.41	3.46	0.82
Gas	-	-	-	-	-	-	-	-	-
Comb. renew/wastes	-	-	-	-	-	-	-	-	-
Electricity	1.63	1.87	2.07	2.28	2.34	2.31	2.32	1.42	0.68
Residential	**29.89**	**36.76**	**54.27**	**69.46**	**71.69**	**69.18**	**70.36**	**3.57**	**1.54**
Coal and peat	2.50	0.79	0.09	-	-	-	-	-17.59	-
Oil	12.50	13.82	19.26	23.70	22.66	20.84	20.48	2.57	0.36
Gas	5.16	7.90	10.50	12.85	13.38	13.17	13.31	4.27	1.40
Comb. renew/wastes	-	-	0.15	0.07	0.04	0.04	0.04	-	-7.80
Geothermal	-	-	-	-	-	-	-	-	-
Solar, wind, tide	-	-	1.61	1.12	0.79	0.75	0.75	-	-4.41
Electricity	9.73	14.26	22.62	31.68	34.78	34.35	35.75	5.09	2.73
Heat	-	-	0.04	0.04	0.05	0.04	0.04	-	0.01
Comm & public services	**28.86**	**29.06**	**65.70**	**88.27**	**96.74**	**95.61**	**91.83**	**4.96**	**1.99**
Coal and peat	-	-	1.24	0.87	0.86	0.85	0.84	-	-2.25
Oil	23.29	20.36	32.77	36.57	34.41	29.34	22.99	2.03	-2.06
Gas	1.83	2.05	5.56	12.57	17.62	20.76	22.70	6.76	8.63
Comb. renew/waste	-	-	-	-	-	-	-	-	-
Geothermal	-	-	0.06	0.18	0.18	0.17	0.17	-	5.78
Solar, wind, tide	-	-	0.06	0.03	0.03	0.03	0.03	-	-5.25
Electricity	3.70	6.51	25.76	37.32	42.84	43.68	44.32	12.09	3.24
Heat	0.04	0.15	0.24	0.73	0.81	0.78	0.78	11.22	7.15
Non-energy use	**52.68**	**40.61**	**49.35**	**59.30**	**60.60**	**60.64**	**60.39**	**-0.38**	**1.19**
Coal and peat	-	-	0.57	0.50	0.51	0.57	0.57	-	-0.07
Oil	52.68	40.61	48.35	58.54	59.59	59.56	59.27	-0.50	1.21
Gas	-	-	0.43	0.26	0.50	0.51	0.55	-	1.42

Source: *IEA/OECD Energy Balances of OECD Countries*

(1) Total Final Consumption (TFC) excludes use in transformation and energy sectors.

* Please refer to notes in *Principles and Definitions* .

Japan

5. COAL BALANCE*

(Mtce)

	1973	1980	1990	2000	2006	2007	2008e	Average annual percent change 73-90	90-07
Production	25.6	15.6	6.3	2.2	-	-	-	-7.9	-
Imports	59.0	70.0	103.1	137.1	158.1	164.9	163.0	3.3	2.8
Exports	-0.6	-2.1	-1.8	-2.5	-1.9	-1.3	-0.9	7.0	-1.9
Stock changes	-1.3	1.6	0.1	-0.2	0.5	0.1	-0.9	x	x
Primary supply	**82.7**	**85.1**	**107.7**	**136.6**	**156.7**	**163.7**	**161.1**	**1.6**	**2.5**
Statistical difference	**-2.5**	**-1.9**	**2.5**	**-1.5**	**1.3**	**-0.5**	**..**	**x**	**x**
Total transformation	**-47.6 e**	**-49.9 e**	**-60.3 e**	**-94.1 e**	**-111.2 e**	**-115.4 e**	**..**	**1.4**	**3.9**
Electricity and heat gen.	-17.1	-15.0	-36.3	-69.1	-87.5	-91.7	..	4.5	5.6
Main activity producers (1)	*-17.1*	*-11.5*	*-29.2*	*-57.5*	*-75.5*	*-79.3*	..	*3.2*	*6.1*
Autoproducers	-	*-3.6*	*-7.1*	*-11.6*	*-12.1*	*-12.4*	..	-	*3.3*
Gas works	-2.9	-1.8	-0.6	-0.3	-	-	..	-9.0	-
Coal transformation(2)	-27.5 e	-33.1 e	-23.4 e	-24.7 e	-23.7 e	-23.7 e	..	-0.9	0.1
BKB plants	-	-	-	-	-	-	..	-	-
Blast furnaces	*-24.5 e*	*-20.1 e*	*-21.7 e*	*-24.1 e*	*-23.0 e*	*-23.9 e*	..	*-0.7*	*0.6*
Coke ovens	*-3.0*	*-13.1*	*-1.7*	*-0.7*	*-0.7*	*0.3*	..	*-3.3*	-
Patent fuel plants	*-0.0*	*0.1*	*-0.0*	-	-	-	..	*-16.6*	-
Other transformation(3)	-	-	-	-	-	-	..	-	-
Own use	**-3.8**	**-2.7**	**-3.4**	**-3.2**	**-3.4**	**-3.9**	**..**	**-0.6**	**0.7**
Distribution losses	**-**	**-**	**-**	**-**	**-**	**-**	**..**	**x**	**x**
Final consumption(4)	**28.8**	**30.5**	**46.5**	**37.8**	**43.4**	**44.0**	**..**	**2.9**	**-0.3**
Industry sector(5)	26.0	29.7	44.6	36.4	41.9	42.5	..	3.2	-0.3
Iron and steel	*23.2 e*	*23.0 e*	*18.6 e*	*15.3 e*	*17.7 e*	*18.5 e*	..	*-1.3*	*-0.0*
Chemical	-	*0.4*	*3.9*	*3.8*	*4.5*	*4.6*	..	-	*1.0*
Non-metallic minerals	-	*4.3*	*8.1*	*7.0*	*6.0*	*6.0*	..	-	*-1.7*
Paper, pulp and print	-	*0.1*	*1.6*	*2.0*	*2.0*	*2.0*	..	-	*1.5*
Transport sector(6)	0.3	-	-	-	-	-	..	-	-
Other sectors(7)	2.5	0.8	1.3	0.9	0.9	0.8	..	-3.6	-2.7
Comm. and pub. services	-	-	*1.2*	*0.9*	*0.9*	*0.8*	..	-	*-2.2*
Residential	*2.5*	*0.8*	*0.1*	-	-	-	..	*-17.6*	-
Non-energy use	-	-	0.6	0.5	0.6	0.6	..	-	-0.1

Source: *IEA/OECD Energy Balances of OECD Countries*

(1) Main activity electricity and heat generation includes district heating.

(2) Coal transformation refers to the transformation of coal and peat to secondary and tertiary products (mainly coke, briquettes, coke oven gas and blast furnace gas).

(3) Other transformation includes liquefaction and non-specified transformation.

(4) Final Consumption includes non-energy use and energy use (industry, transport and other sectors).

(5) Please refer to notes in *Principles and Definitions* for detailed explanation.

(6) Transport sector includes rail and inland waterways.

(7) Other sectors includes commercial and public services, agriculture, and residential.

* "Coal" refers to all types of coal, primary (anthracite, coking coal, other bituminous coal, sub-bituminous coal, lignite/brown coal, peat) and derived fuels (including patent fuel, BKB/peat briquettes, coke oven coke, gas coke, coal tar, coke oven gas, gas works gas, blast furnace gas and oxygen steel furnace gas). Quantities have been converted to Mtce using calorific values reported by the respective countries. Please refer to notes in *Principles and Definitions*.

Japan

6. USE OF COAL FOR SELECTED END-USES*

(million tonnes)

	1978	1980	1990	2000	2005	2006	2007	Average annual percent change 78-90	90-07
Steam coal	**11.08**	**17.50**	**50.03**	**96.11**	**120.44**	**121.43**	**128.78**	**13.38**	**5.72**
Total electricity and heat	8.57	9.60	31.05	64.88	92.29	89.50	94.35	11.32	6.76
Main activity producers	*8.57*	*8.49*	*26.54*	*57.37*	*83.53*	*80.83*	*85.19*	*9.87*	*7.10*
Autoproducers	-	*1.11*	*4.52*	*7.52*	*8.76*	*8.67*	*9.16*	-	*4.25*
Patent fuel/BKB plants	0.34	0.43	0.11	-	-	-	-	-9.34	-
Coke ovens	0.08	0.02	5.89	11.46	11.65	11.62	12.57	43.53	4.56
Blast furnace inputs	-	-	-	-	-	-	-	-	-
Gas manufacture	0.07	0.02	-	-	-	-	-	-	-
Industry sector	2.52	6.54	14.83	16.13	16.69	16.73	17.56	15.91	1.00
Iron and steel	*0.23*	*0.34*	*1.54*	*2.58*	*3.50*	*3.38*	*4.00*	*17.29*	*5.78*
Chemical	*0.19*	*0.13*	*2.42*	*3.57*	*3.89*	*4.20*	*4.35*	*23.68*	*3.51*
Non-metallic minerals	*0.71*	*5.38*	*8.12*	*7.20*	*6.45*	*6.40*	*6.37*	*22.52*	*-1.42*
Paper, pulp and print	*0.05*	*0.17*	*1.90*	*2.32*	*2.45*	*2.36*	*2.45*	*36.33*	*1.52*
Other industry	*1.35*	*0.50*	*0.86*	*0.46*	*0.40*	*0.40*	*0.39*	*-3.72*	*-4.60*
Res, comm & pub serv[(1)]	0.58	0.50	0.67	0.93	0.94	0.93	0.91	1.32	1.81
Non-energy use	-	-	0.02	-	-	-	-	-	-
Coking coal	**58.72**	**70.20**	**64.93**	**57.08**	**56.53**	**57.67**	**58.20**	**0.84**	**-0.64**
Total electricity and heat	-	-	-	-	-	-	-	-	-
Main activity producers	-	-	-	-	-	-	-	-	-
Autoproducers	-	-	-	-	-	-	-	-	-
Patent fuel/BKB plants	-	-	-	-	-	-	-	-	-
Coke ovens	55.12	65.65	59.33	45.97	47.80	48.23	47.18	0.61	-1.34
Blast furnace inputs	-	-	5.25	10.94	10.44	10.67	11.59	-	4.77
Gas manufacture	4.45	4.30	-	-	-	-	-	-	-
Industry sector	0.12	0.01	-	-	-	-	-	-	-
Iron and steel	*0.06*	-	-	-	-	-	-	-	-
Chemical	*0.01*	*0.01*	-	-	-	-	-	-	-
Non-metallic minerals	-	-	-	-	-	-	-	-	-
Paper, pulp and print	-	-	-	-	-	-	-	-	-
Other industry	*0.04*	-	-	-	-	-	-	-	-
Res, comm & pub serv[(1)]	0.01	0.01	-	-	-	-	-	-	-
Non-energy use	-	-	-	-	-	-	-	-	-
Brown coal/lignite	**0.04**	**0.03**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
Total electricity and heat	-	-	-	-	-	-	-	-	-
Main activity producers	-	-	-	-	-	-	-	-	-
Autoproducers	-	-	-	-	-	-	-	-	-
Patent fuel/BKB plants	-	-	-	-	-	-	-	-	-
Coke ovens	-	-	-	-	-	-	-	-	-
Gas manufacture	-	-	-	-	-	-	-	-	-
Industry sector	0.03	0.02	-	-	-	-	-	-	-
Iron and steel	-	-	-	-	-	-	-	-	-
Chemical	*0.03*	*0.02*	-	-	-	-	-	-	-
Non-metallic minerals	-	-	-	-	-	-	-	-	-
Paper, pulp and print	-	-	-	-	-	-	-	-	-
Other industry	*0.00*	*0.00*	-	-	-	-	-	-	-
Res, comm & pub serv[(1)]	0.01	0.01	-	-	-	-	-	-	-
Non-energy use	-	-	-	-	-	-	-	-	-

Source: *IEA/OECD Energy Statistics of OECD Countries*

(1) Residential, commercial and public services.

* Please refer to notes in *Principles and Definitions* .

Japan

7. FUEL PRICES TO END USERS*

	1978[1]	1980	1990	2000	2004	2005	2006	2007	2008
				(US dollars / tce)					
For electricity generation									
Steam coal	90.58	90.23	101.84	51.42	..	..	..	..	..
Heavy fuel oil	79.83	182.50	151.02	..	..	..	..	..	..
Natural gas	73.11	152.09	129.99	..	..	..	..	..	..
For industry									
Steam coal	71.23	74.99	70.53	45.68	67.16	81.25	87.10	97.98	167.62
Coking coal	72.47	73.35	68.03	45.29	69.33	104.02	112.09	108.07	220.66
High sulphur fuel oil	82.50	195.69	136.92	163.49	195.20	255.46	332.48	352.98	566.22
Low sulphur fuel oil	..	..	..	219.96	263.43	342.15	411.46	423.59	689.53
Natural gas	302.48	349.02	320.89	351.99	305.16	312.30	338.69	353.13	..
				(Yen / unit)[2]					
For electricity generation									
Steam coal	15170	16280	11736	4413	..	..	..	..	..
Heavy fuel oil	23040	56740	29990	..	..	..	..	..	..
Natural gas	19780	44330	24200	..	..	..	..	..	..
For industry									
Steam coal	11930	13530	8128	3920	5781	7120	8066	9183	13792
Coking coal	14290	15580	9230	4576	7026	10731	12220	11925	21377
High sulphur fuel oil	23810	60840	27190	24177	28952	38573	53052	57006	80285
Low sulphur fuel oil	..	..	..	32528	39072	51662	65655	68409	97769
Natural gas	81840	101730	59740	48800	42432	44208	50665	53466	..

Source: *IEA/OECD Energy Prices & Taxes*

(1) Earliest year for which split by coal type is available.

(2) For steam coal, coking coal and heavy fuel oil per metric tonne; for natural gas per 10^7 kilocalories GCV.

* Please refer to notes in *Principles and Definitions*.

8. COAL TRADE BY TYPE OF COAL*

(Mtce)

	1973	1980	1990	2000	2004	2005	2006	2007	2008e
Total imports	**58.99**	**69.99**	**103.13**	**137.13**	**164.37**	**156.91**	**158.07**	**164.89**	**162.96**
Hard coal	58.99	69.99	102.63	134.66	161.34	154.28	156.17	162.81	161.52
Coking coal	*..*	*65.25*	*67.13*	*53.98*	*57.57*	*53.46*	*54.54*	*55.03*	*54.25*
Steam coal	*..*	*4.74*	*35.50*	*80.69*	*103.77*	*100.82*	*101.64*	*107.78*	*107.27*
Brown coal / lignite	-	-	-	-	-	-	-	-	-
Peat	-	-	-	-	-	-	-	-	-
Coal products[1]	-	-	0.50	2.47	3.03	2.64	1.90	2.08	1.44
Total exports	**0.58**	**2.06**	**1.84**	**2.53**	**1.99**	**1.60**	**1.88**	**1.32**	**0.90**
Hard coal	-	0.06	0.00	0.00	0.00	0.00	0.00	0.00	-
Coking coal	*..*	*0.03*	-	-	-	-	-	-	-
Steam coal	*..*	*0.02*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	-
Brown coal / lignite	-	-	-	-	-	-	-	-	-
Peat	-	-	-	-	-	-	-	-	-
Coal products[1]	0.58	2.01	1.84	2.53	1.99	1.60	1.87	1.32	0.90

Source: *IEA/OECD Energy Balances of OECD Countries, IEA/OECD Energy Statistics of OECD Countries*

(1) Coal products includes products derived from coal, for example: coke, coal tar, briquettes, patent fuels.

* Please refer to notes in *Principles and Definitions*.

Japan

9. HARD COAL IMPORTS BY ORIGIN*

(thousand tonnes)

	1978[1]	1980	1990	2000	2004	2005	2006	2007	2008e
Hard Coal	**52858**	**68570**	**106918**	**150340**	**180804**	**176977**	**179100**	**186987**	**185568**
Coking Coal	**50876**	**62227**	**64935**	**57081**	**60884**	**56530**	**57672**	**58199**	**57367**
Australia	24149	25917	34505	34757	35443	33674	34929	36526	29748
Canada	10895	10759	11290	5292	2042	2503	2906	3603	5455
Czech Republic	-	-	-	-	-	-	-	-	-
Germany	398	-	-	-	-	-	-	-	-
Poland	429	387	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	5	-	-	-	-
United States	9956	19414	7367	1422	1646	447	80	1	1121
Other OECD	11	70	225	367	286	253	329	138	418
China, People's Rep.	420	979	2802	6774	9027	6574	5807	3638	1615
Colombia	-	-	153	-	12	-	9	9	20
Indonesia	-	-	668	5677	9201	9850	10622	10659	17162
South Africa	2360	2803	2955	603	23	25	25	134	-
Former USSR[2]	2244	1898	-	-	-	-	-	-	-
Russia[3]	-	-	*4950*	*2104*	*3184*	*3179*	*2939*	*3491*	*1713*
Other Former USSR[3]	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	27	-	-	-	-	-
Non-specified/other	14	-	20	58	15	25	26	-	115
Steam coal	**1982**	**6343**	**41983**	**93259**	**119920**	**120447**	**121428**	**128788**	**128201**
Australia	668	3462	21346	55147	66640	68781	70835	78046	90350
Canada	105	352	6920	8297	3826	5069	5866	7625	2671
Czech Republic	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-
Poland	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	9	-	-	-	-
United States	-	385	4516	2230	3085	905	160	2	260
Other OECD	-	-	138	575	537	512	660	291	-
China, People's Rep.	513	1086	2504	12470	19042	15482	13658	9942	12653
Colombia	-	-	94	-	23	-	18	19	-
Indonesia	-	9	409	8908	17313	19947	21294	22559	11342
South Africa	157	385	2003	945	43	51	51	283	188
Former USSR[2]	149	233	-	-	-	-	-	-	-
Russia[3]	-	-	*3402*	*3300*	*6363*	*7291*	*6496*	*7750*	*9122*
Other Former USSR[3]	-	-	-	-	-	*21*	-	-	-
Venezuela	-	-	-	-	-	15	-	-	-
Vietnam	-	-	150	944	2724	2043	2251	2270	1533
Non-specified/other	390	431	501	443	315	330	139	1	82

Source: IEA/OECD Coal Statistics

(1) Earliest year for which split by coal type is available.

(2) If no detail.

(3) Data for former republics are not available separately for some OECD member countries.

* Please refer to notes in *Principles and Definitions*.

Japan

12. COAL IMPORT VALUES BY ORIGIN*

(average unit value, CIF, US$/tonne)

	1988	1990	1995	2003	2004	2005	2006	2007	2008
Coking coal[1]	**55.05**	**60.72**	**55.03**	**41.73**	**61.40**	**88.80**	**93.10**	**88.43**	**184.13**
Imports from:									
Australia	48.31	55.27	51.15	43.56	56.85	96.44	106.20	96.03	206.71
Canada	67.36	71.27	64.49	51.64	62.04	106.05	125.68	112.61	234.34
Czech Republic	x	x	x	x	x	..	..	..	..
Poland	x	x	x	x	x	..	..	..	..
United States	60.35	66.90	61.37	42.93	163.61	159.01	159.35	516.32	308.56
China	46.06	54.38	49.49	39.09	72.57	100.45	91.98	100.91	256.42
Colombia	43.51	59.34	48.26	x	109.00	x	88.35	x	224.37
South Africa	42.55	50.11	49.54	x	x	x	x	x	x
Former USSR[2]	50.14	57.45	54.81	46.05	67.98	114.96	116.69	105.45	250.90
Steam coal[3]	**42.64**	**50.97**	**47.85**	**34.93**	**51.48**	**62.73**	**63.33**	**70.92**	**125.42**
Imports from:									
Australia	43.34	52.23	48.87	35.13	50.20	61.90	63.90	71.03	127.23
Canada	42.96	48.26	44.20	33.82	52.60	63.79	56.32	66.04	125.52
Czech Republic	x	x	x	x	x	..	..	..	..
Poland	x	x	x	x	x	..	..	..	..
United States	48.05	53.17	52.65	x	186.48	x	596.68	553.99	151.26
China	38.52	47.59	44.48	35.28	55.06	65.65	63.88	73.60	124.10
Colombia	43.70	x	x	67.62	x	x	x	100.34	x
South Africa	41.16	47.95	48.27	35.21	x	80.64	x	77.46	105.49
Former USSR[2]	40.24	46.54	43.45	34.28	59.02	66.10	62.20	72.28	121.34

Source: IEA/OECD Coal Statistics

Note: On occasion, shipment of extremely small quantities of high valued coal results in high import costs.

(1) Weighted average of individual countries using import volumes as weights. Prices exclude intra-EU trade.

(2) Former USSR until 1991, Russia starting in 1992.

(3) Bituminous steam coal only. Weighted average of individual countries using volumes as weights. Prices exclude intra-EU trade.

* Please refer to notes in *Principles and Definitions*.

Korea*

Chart 1: TPES by fuel (Mtce)

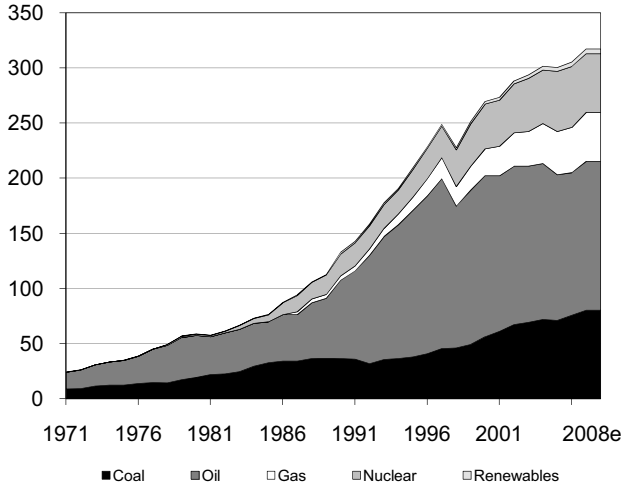


Chart 2: Coal supply indicators (1971 = 100)

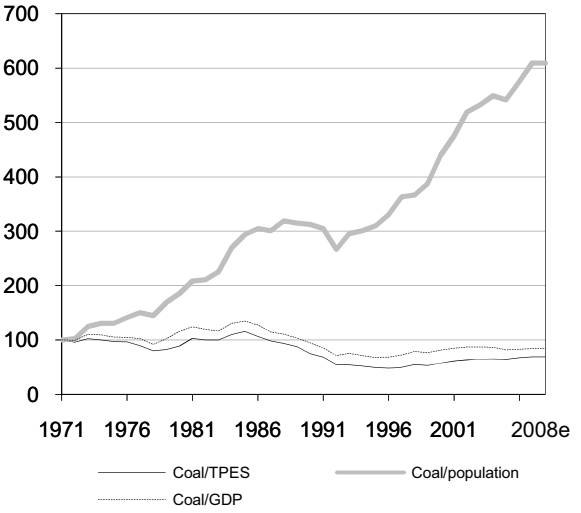


Chart 3: Primary coal supply (Mtce)

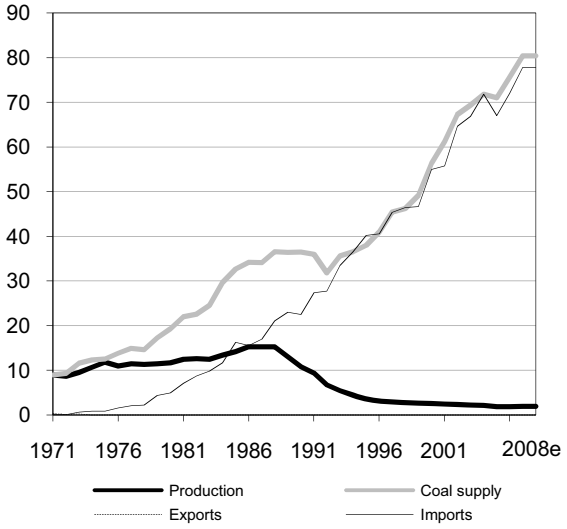


Chart 4: Coal consumption (Mtce)

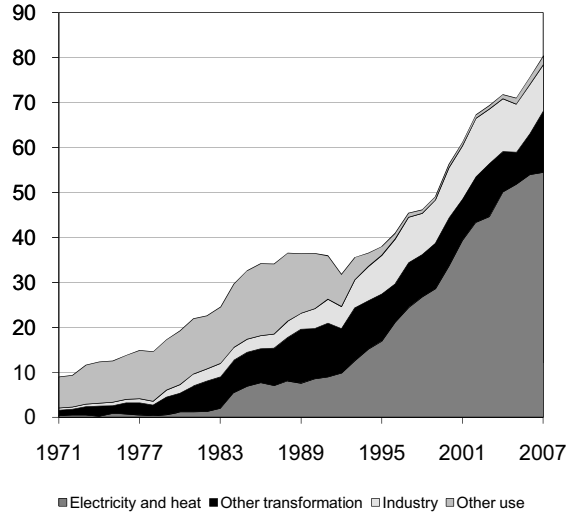


Chart 5: Electricity generation by fuel (TWh)

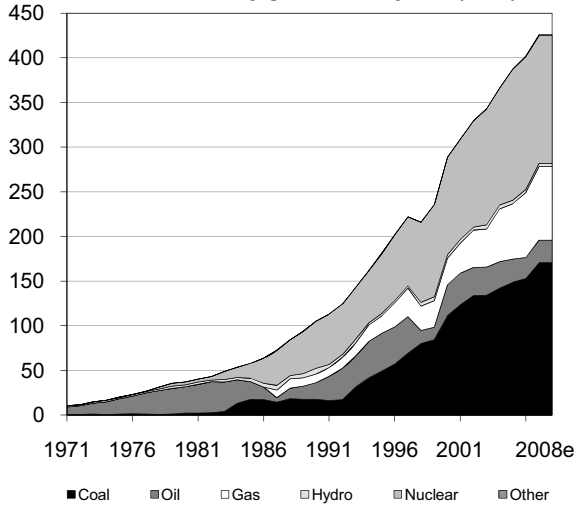
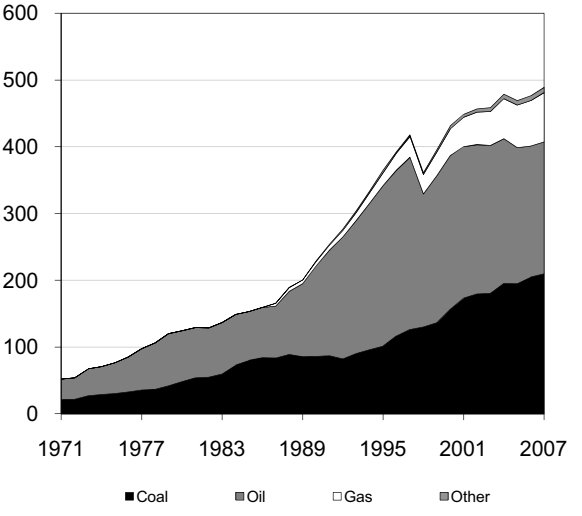


Chart 6: CO_2 emissions by fuel (Mt CO_2)



*Please refer to notes in *Principles and Definitions*. Peat is included in coal for all charts.

Korea

1. TOTAL PRIMARY ENERGY SUPPLY (TPES) BY FUEL*

	1973	1980	1990	2000	2006	2007	2008e	Average annual percent change 73-90	90-07
TPES (Mtce)	**30.78**	**58.87**	**132.98**	**269.79**	**305.49**	**317.42**	**324.61**	**8.99**	**5.25**
Coal and peat	11.61	19.26	36.51	56.35	75.61	80.44	91.81	6.97	4.76
Oil	19.01	38.07	71.05	146.05	129.48	134.93	127.63	8.06	3.85
Gas	-	-	3.89	24.29	41.00	44.50	44.11	-	15.41
Comb. renew/waste	-	-	1.04	1.97	3.48	3.75	4.33	-	7.82
Nuclear	-	1.29	19.69	40.57	55.38	53.21	56.20	-	6.02
Hydro	0.16	0.24	0.78	0.49	0.43	0.45	0.38	9.87	-3.24
Geothermal	-	-	-	-	0.01	0.02	0.02	-	-
Solar, wind, tide	-	-	0.01	0.06 e	0.08	0.10	0.12	-	11.97
Net electricity trade(1)	-	-	-	-	-	-	-	-	-
Heat(2)	-	-	-	-	0.02	0.02	0.01	-	-

Source: *IEA/OECD Energy Balances of OECD Countries*

(1) Net trade between OECD and non-OECD countries.

(2) Ambient heat from heat pumps used in the transformation sector.

2. ENERGY SUPPLY, GDP AND POPULATION*

	1973	1980	1990	2000	2006	2007	2008e	Average annual percent change 73-90	90-07
GDP (2000 bil. US$)	77	123	284	512	672	706	723	7.94	5.51
TPES/GDP(1)	0.40	0.48	0.47	0.53	0.45	0.45	0.45	0.97	-0.24
Population (millions)	34.1	38.1	42.9	47.0	48.3	48.5	48.6	1.35	0.72
TPES/population(1)	0.90	1.54	3.10	5.74	6.33	6.55	6.68	7.53	4.50
TPES/GDP(2)	75.5	90.9	88.9	100.0	86.2	85.3	85.1	0.97	-0.24
Coal and peat supply/GDP(2)	136.3	142.4	116.9	100.0	102.1	103.5	115.2	-0.90	-0.71
Elec. consumption/GDP(2)	32.3	51.8	64.7	100.0	107.4	107.8	..	4.18	3.05
Elec. generation (TWh)	15	37	105	289	402	426	441	12.23	8.56
Industrial production(2)	..	14.2	42.7	100.0	145.9	156.0	160.8	-	7.93

Source: *IEA/OECD Energy Balances of OECD Countries* , *OECD Main Economic Indicators*

(1) TPES/GDP in units of tce/2000 thousand US$, TPES/population in units of tce/capita.

(2) As index, 2000 = 100

3. COAL AND PEAT PRODUCTION BY TYPE*

	1978(1)	1980	1990	2000	2006	2007	2008e	Average annual percent change 78-90	90-07
Mtce:									
Coking coal	-	-	-	-	-	-	-	-	-
Steam coal	11.35	11.71	10.82	2.56	1.82	1.90	1.82	-0.39	-9.74
Brown coal	-	-	-	-	-	-	-	-	-
Peat	-	-	-	-	-	-	-	-	-
Mt:									
Coking coal	-	-	-	-	-	-	-	-	-
Steam coal	18.05	18.63	17.22	4.15	2.82	2.89	2.77	-0.39	-9.97
Brown coal	-	-	-	-	-	-	-	-	-
Peat	-	-	-	-	-	-	-	-	-

Source: *IEA/OECD Energy Balances of OECD Countries, IEA/OECD Energy Statistics of OECD Countries*

(1) Earliest year for which split by coal type is available.

* Please refer to notes in *Principles and Definitions* .

Korea

4. FINAL CONSUMPTION OF ENERGY BY FUEL*

(Mtce)

	1973	1980	1990	2000	2005	2006	2007	Average annual percent change 73-90	90-07
TFC[1]	**24.98**	**44.70**	**92.72**	**185.12**	**201.67**	**202.97**	**209.72**	**8.02**	**4.92**
Coal and peat	9.26	13.92	16.74	11.93	12.09	12.51	12.29	3.54	-1.80
Oil	14.14	26.76	62.37	118.67	113.77	112.29	115.45	9.12	3.69
Gas	-	-	0.96	15.61	22.83	23.28	24.27	-	20.91
Comb. renew/wastes	-	-	1.04	1.82	2.57	2.92	3.04	-	6.50
Geothermal	-	-	-	-	0.00	0.01	0.02	-	-
Solar, wind, tide	-	-	0.01	0.06	0.05	0.05	0.04	-	6.56
Electricity	1.58	4.02	11.60	32.33	43.94	45.62	48.06	12.46	8.72
Heat	-	-	-	4.70	6.42	6.29	6.56	-	-
of which:									
Total industry	**9.17**	**14.73**	**27.51**	**53.97**	**56.80**	**58.05**	**59.01**	**6.68**	**4.59**
Coal and peat	0.56	1.92	4.36	11.12	10.73	10.93	10.31	12.88	5.19
Oil	7.52	10.01	15.54	15.72	11.36	11.21	10.42	4.36	-2.32
Gas	-	-	0.10	4.11	5.95	6.24	6.98	-	28.07
Comb. renew/wastes	-	-	0.41	1.51	2.09	2.32	2.37	-	10.92
Geothermal	-	-	-	-	0.00	0.00	0.00	-	-
Solar, wind, tide	-	-	-	-	0.00	0.00	0.00	-	-
Electricity	1.09	2.79	7.10	18.48	22.60	23.28	24.64	11.67	7.59
Heat	-	-	-	3.04	4.06	4.08	4.28	-	-
Total transport	**3.57**	**6.83**	**20.82**	**42.05**	**41.72**	**41.76**	**43.18**	**10.93**	**4.38**
Coal and peat	0.02	0.00	-	-	-	-	-	-	-
Oil	3.54	6.78	20.70	41.80	40.93	40.74	41.93	10.95	4.24
Gas	-	-	-	-	0.46	0.65	0.83	-	-
Comb. renew/wastes	-	-	-	-	0.02	0.06	0.11	-	-
Electricity	0.02	0.05	0.12	0.25	0.32	0.31	0.30	12.93	5.36
Residential	**8.85**	**13.23**	**18.49**	**21.48**	**26.30**	**26.84**	**26.32**	**4.43**	**2.10**
Coal and peat	8.55 e	11.85 e	12.34 e	0.81 e	1.36	1.58	1.43	2.18	-11.91
Oil	0.10	0.72	2.74	5.54	4.54	4.93	4.44	21.34	2.88
Gas	-	-	0.66 e	8.90	11.96	11.82	11.72 e	-	18.40
Comb. renew/wastes	-	-	0.56	0.09	0.07	0.07	0.06	-	-12.14
Geothermal	-	-	-	-	0.00	0.00	-	-	-
Solar, wind, tide	-	-	0.01	0.05	0.04	0.04	0.03	-	8.82
Electricity	0.19	0.65	2.18	4.56	6.25	6.45	6.66	15.43	6.79
Heat	-	-	-	1.53	2.07	1.95	1.99	-	-
Comm & public services	**1.27**	**3.64**	**12.42**	**24.59**	**27.47**	**25.50**	**26.22**	**14.33**	**4.49**
Coal and peat	0.14	0.14 e	0.04 e	-	-	-	-	-7.29	-
Oil	0.86	3.00	10.09	13.25	8.45	5.52	5.21	15.56	-3.82
Gas	-	-	0.19 e	2.58	4.42	4.55	4.70	-	20.63
Comb. renew/waste	-	-	0.07	0.22	0.39	0.47	0.49	-	11.82
Geothermal	-	-	-	-	0.00	0.01	0.02	-	-
Solar, wind, tide	-	-	0.01	0.01	0.01	0.01	0.01	-	1.23
Electricity	0.27	0.50	2.01	8.39	13.91	14.68	15.51	12.47	12.76
Heat	-	-	-	0.14	0.29	0.26	0.29	-	-
Non-energy use	**1.62**	**4.37**	**9.61**	**35.76**	**43.38**	**45.37**	**49.43**	**11.04**	**10.11**
Coal and peat	-	-	-	-	-	-	0.55	-	-
Oil	1.62	4.37	9.61	35.76	43.38	45.37	48.88	11.04	10.04
Gas	-	-	-	-	-	-	-	-	-

Source: *IEA/OECD Energy Balances of OECD Countries*

(1) Total Final Consumption (TFC) excludes use in transformation and energy sectors.

* Please refer to notes in *Principles and Definitions*.

Korea

5. COAL BALANCE*

(Mtce)

	1973	1980	1990	2000	2006	2007	2008e	Average annual percent change 73-90	90-07
Production	9.5 e	11.7	10.8	2.6	1.8	1.9	1.8	0.8	-9.7
Imports	0.6 e	5.0 e	22.5 e	54.9 e	72.0	77.8	87.8	23.2	7.6
Exports	-0.2 e	-	-	-	-	-	-	-	-
Stock changes	1.6 e	2.6 e	3.2 e	-1.1 e	1.8	0.7	2.2	x	x
Primary supply	**11.6**	**19.3**	**36.5**	**56.4**	**75.6**	**80.4**	**91.8**	**7.0**	**4.8**
Statistical difference	**-0.0**	**-0.4**	**1.2**	**0.9**	**3.3**	**0.5**	**..**	**x**	**x**
Total transformation	**-2.2 e**	**-3.5 e**	**-18.8 e**	**-42.3 e**	**-65.3 e**	**-66.1 e**	**..**	**13.5**	**7.7**
Electricity and heat gen.	-0.5 e	-1.2 e	-8.5 e	-33.7 e	-54.0	-54.5	..	18.5	11.5
Main activity producers (1)	*-0.4*	*-1.2*	*-5.6 e*	*-29.9 e*	*-48.3*	*-48.6*	*..*	*16.4*	*13.6*
Autoproducers	*-0.1 e*	*-0.0 e*	*-2.9 e*	*-3.7 e*	*-5.7*	*-5.9*	*..*	*25.9*	*4.2*
Gas works	-	-	-	-	-	-	..	-	-
Coal transformation(2)	-1.7 e	-2.3 e	-10.3 e	-8.7 e	-11.3 e	-11.6 e	..	11.1	0.7
BKB plants	-	-	-	-	-	-	..	-	-
Blast furnaces	*-0.2 e*	*-1.4 e*	*-4.9 e*	*-7.8 e*	*-8.4 e*	*-8.5 e*	*..*	*21.7*	*3.3*
Coke ovens	*-0.0 e*	*-0.2 e*	*-0.6 e*	*-0.6 e*	*-2.6*	*-2.6*	*..*	*28.5*	*9.4*
Patent fuel plants	*-1.5 e*	*-0.7 e*	*-4.8 e*	*-0.2 e*	*-0.3*	*-0.5*	*..*	*7.0*	*-12.7*
Other transformation(3)	-	-	-	-	-	-	..	-	-
Own use	**-0.1 e**	**-1.4 e**	**-2.1 e**	**-3.0 e**	**-1.1**	**-2.6**	**..**	**17.8**	**1.4**
Distribution losses	**-**	**-**	**-**	**-**	**-**	**-**	**..**	**x**	**x**
Final consumption(4)	**9.3**	**13.9**	**16.7**	**11.9**	**12.5**	**12.3**	**..**	**3.5**	**-1.8**
Industry sector(5)	0.6	1.9	4.4	11.1	10.9	10.3	..	12.9	5.2
Iron and steel	*0.6 e*	*1.3 e*	*0.7 e*	*3.1 e*	*5.4 e*	*4.2 e*	*..*	*1.4*	*11.2*
Chemical	-	-	*0.1 e*	*0.2*	*0.1*	*0.1*	*..*	-	*3.6*
Non-metallic minerals	-	*0.7*	*2.9*	*4.4*	*4.2*	*4.2*	*..*	-	*2.2*
Paper, pulp and print	-	-	*0.0 e*	-	*0.0*	*0.0*	*..*	-	*16.3*
Transport sector(6)	0.0	0.0	-	-	-	-	..	-	-
Other sectors(7)	8.7	12.0	12.4	0.8	1.6	1.4	..	2.1	-11.9
Comm. and pub. services	*0.1*	*0.1 e*	*0.0 e*	-	-	-	*..*	*-7.3*	-
Residential	*8.6 e*	*11.9 e*	*12.3 e*	*0.8 e*	*1.6*	*1.4*	*..*	*2.2*	*-11.9*
Non-energy use	-	-	-	-	-	0.5	..	-	-

Source: *IEA/OECD Energy Balances of OECD Countries*

(1) Main activity electricity and heat generation includes district heating.

(2) Coal transformation refers to the transformation of coal and peat to secondary and tertiary products (mainly coke, briquettes, coke oven gas and blast furnace gas).

(3) Other transformation includes liquefaction and non-specified transformation.

(4) Final Consumption includes non-energy use and energy use (industry, transport and other sectors).

(5) Please refer to notes in *Principles and Definitions* for detailed explanation.

(6) Transport sector includes rail and inland waterways.

(7) Other sectors includes commercial and public services, agriculture, and residential.

* "Coal" refers to all types of coal, primary (anthracite, coking coal, other bituminous coal, sub-bituminous coal, lignite/brown coal, peat) and derived fuels (including patent fuel, BKB/peat briquettes, coke oven coke, gas coke, coal tar, coke oven gas, gas works gas, blast furnace gas and oxygen steel furnace gas). Quantities have been converted to Mtce using calorific values reported by the respective countries. Please refer to notes in *Principles and Definitions*.

Korea

6. USE OF COAL FOR SELECTED END-USES*

(million tonnes)

	1978	1980	1990	2000	2005	2006	2007	Average annual percent change 78-90	90-07
Steam coal	**19.88**	**23.80**	**33.04**	**47.13**	**61.39**	**63.98**	**70.31**	**4.32**	**4.54**
Total electricity and heat	0.52	1.87	7.71	36.16	52.72	55.14	60.90	25.23	12.93
Main activity producers	*0.52*	*1.87*	*7.71*	*36.16*	*50.21*	*52.60*	*58.34*	*25.23*	*12.65*
Autoproducers	-	-	-	-	*2.51*	*2.54*	*2.56*	-	-
Patent fuel/BKB plants	18.29	19.97	20.70	1.22	2.01	2.33	2.09	1.04	-12.62
Coke ovens	-	-	-	-	-	-	-	-	-
Blast furnace inputs	-	-	-	-	-	-	-	-	-
Gas manufacture	-	-	-	-	-	-	-	-	-
Industry sector	0.84	1.75	4.59	9.76	7.09	7.29	7.85	15.15	3.21
Iron and steel	*0.68*	*0.71*	*0.17*	*-*	*1.19*	*1.35*	*1.39*	*-10.91*	*13.09*
Chemical	-	-	*0.08*	*0.27*	*0.13*	*0.13*	*0.14*	-	*3.45*
Non-metallic minerals	*0.16*	*1.05*	*3.53*	*5.31*	*4.75*	*4.69*	*4.99*	*29.42*	*2.05*
Paper, pulp and print	-	-	*0.00*	-	*0.04*	*0.04*	*0.04*	-	*16.11*
Other industry	-	-	*0.80*	*4.19*	*0.98*	*1.08*	*1.31*	-	*2.90*
Res, comm & pub serv[1]	0.22	0.22	0.05	-	-	-	-	-12.19	-
Non-energy use	-	-	-	-	-	-	-	-	-
Coking coal	**2.01**	**3.99**	**11.74**	**19.42**	**20.88**	**20.73**	**21.74**	**15.84**	**3.69**
Total electricity and heat	-	-	-	-	-	-	-	-	-
Main activity producers	-	-	-	-	-	-	-	-	-
Autoproducers	-	-	-	-	-	-	-	-	-
Patent fuel/BKB plants	-	-	-	-	-	-	-	-	-
Coke ovens	2.01	3.99	11.74	16.38	15.40	15.11	15.45	15.84	1.63
Blast furnace inputs	-	-	-	3.03	5.48	5.60	6.28	-	-
Gas manufacture	-	-	-	-	-	-	-	-	-
Industry sector	-	-	-	-	-	0.25	-	-	-
Iron and steel	-	-	-	-	-	*0.25*	-	-	-
Chemical	-	-	-	-	-	-	-	-	-
Non-metallic minerals	-	-	-	-	-	-	-	-	-
Paper, pulp and print	-	-	-	-	-	-	-	-	-
Other industry	-	-	-	-	-	-	-	-	-
Res, comm & pub serv[1]	-	-	-	-	-	-	-	-	-
Non-energy use	-	-	-	-	-	-	-	-	-
Brown coal/lignite	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
Total electricity and heat	-	-	-	-	-	-	-	-	-
Main activity producers	-	-	-	-	-	-	-	-	-
Autoproducers	-	-	-	-	-	-	-	-	-
Patent fuel/BKB plants	-	-	-	-	-	-	-	-	-
Coke ovens	-	-	-	-	-	-	-	-	-
Gas manufacture	-	-	-	-	-	-	-	-	-
Industry sector	-	-	-	-	-	-	-	-	-
Iron and steel	-	-	-	-	-	-	-	-	-
Chemical	-	-	-	-	-	-	-	-	-
Non-metallic minerals	-	-	-	-	-	-	-	-	-
Paper, pulp and print	-	-	-	-	-	-	-	-	-
Other industry	-	-	-	-	-	-	-	-	-
Res, comm & pub serv[1]	-	-	-	-	-	-	-	-	-
Non-energy use	-	-	-	-	-	-	-	-	-

Source: *IEA/OECD Energy Statistics of OECD Countries*

(1) Residential, commercial and public services.

* Please refer to notes in *Principles and Definitions*.

Korea

7. FUEL PRICES TO END USERS*

	1978[1]	1980	1990	2000	2004	2005	2006	2007	2008
					(US dollars / tce)				
For electricity generation									
Steam coal	..	..	..	..	50.51	58.44	54.73	63.96	96.49
Heavy fuel oil	..	190.61	99.47	209.68	258.07	..	..	..	..
Natural gas	..	..	..	..	227.75	285.40	371.11	380.89	525.46
For industry									
Steam coal	..	32.73	61.03	58.36	57.88	66.77	61.12	75.29	124.80
Coking coal	..	..	..	..	72.66	116.53	120.23	110.12	247.02
High sulphur fuel oil	..	190.61	99.47	209.68	258.07	330.54	412.77	419.55	526.36
Low sulphur fuel oil	..	..	..	216.62	265.50	326.78	427.59	436.51	549.77
Natural gas	..	..	..	..	265.83	305.16	385.23	428.40	388.52
					(Korean wons / unit)[2]				
For electricity generation									
Steam coal	..	..	..	..	54543	56432	49119	56055	100149
Heavy fuel oil	..	152225	92585	311681	388560	..	..	..	..
Natural gas	..	..	..	..	335334	375833	454149	455166	743727
For industry									
Steam coal	..	18743	40740	62210	62495	64479	54853	65984	129536
Coking coal	..	..	..	..	78452	112530	107902	96501	256393
High sulphur fuel oil	..	152225	92585	311681	388560	445095	516531	512681	761811
Low sulphur fuel oil	..	..	..	321999	399742	440030	535074	533407	795691
Natural gas	..	..	..	..	391405	401855	471430	511948	549912

Source: *IEA/OECD Energy Prices & Taxes*

(1) Earliest year for which split by coal type is available.

(2) For steam coal, coking coal and heavy fuel oil per metric tonne; for natural gas per 10^7 kilocalories GCV.

* Please refer to notes in *Principles and Definitions*.

8. COAL TRADE BY TYPE OF COAL*

(Mtce)

	1973	1980	1990	2000	2004	2005	2006	2007	2008e
Total imports	**0.65**	**4.96**	**22.46**	**54.93**	**71.78**	**67.00**	**71.97**	**77.82**	**87.82**
Hard coal	0.61	4.84	22.46	54.93	71.14	66.69	71.68	77.31	87.17
Coking coal	*..*	*3.87 e*	*11.13 e*	*18.42*	*20.56*	*19.45*	*18.93*	*21.73*	*23.22*
Steam coal	*..*	*0.97 e*	*11.34 e*	*36.51*	*50.58*	*47.24*	*52.74*	*55.58*	*63.94*
Brown coal / lignite	-	-	-	-	-	-	-	-	-
Peat	-	-	-	-	-	-	-	-	-
Coal products[1]	0.04	0.12	-	-	0.64	0.32	0.29	0.51	0.65
Total exports	**0.17**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
Hard coal	0.17	-	-	-	-	-	-	-	-
Coking coal	*..*	-	-	-	-	-	-	-	-
Steam coal	*..*	-	-	-	-	-	-	-	-
Brown coal / lignite	-	-	-	-	-	-	-	-	-
Peat	-	-	-	-	-	-	-	-	-
Coal products[1]	-	-	-	-	-	-	-	-	-

Source: *IEA/OECD Energy Balances of OECD Countries, IEA/OECD Energy Statistics of OECD Countries*

(1) Coal products includes products derived from coal, for example: coke, coal tar, briquettes, patent fuels.

* Please refer to notes in *Principles and Definitions*.

Korea

9. HARD COAL IMPORTS BY ORIGIN*

(thousand tonnes)

	1978[1]	1980	1990	2000	2004	2005	2006	2007	2008e
Hard Coal	**2169**	**5032**	**23729 e**	**63724 e**	**78963**	**76758**	**79707**	**88285**	**99585**
Coking Coal	**2009**	**3987**	**11287 e**	**19575 e**	**21808**	**20627**	**20081**	**22532**	**24083**
Australia	1150	2277	5053 e	10641 e	12442	11664	11677	14362	14856
Canada	409	828	2026 e	4097 e	4206	4315	4089	5034	5072
Czech Republic	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-
Poland	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-
United States	450	882	2908 e	1419 e	533	901	120	252	1132
Other OECD	-	-	-	-	33	-	-	-	-
China, People's Rep.	-	-	-	2781 e	3638	3258	3096	2172	2341
Colombia	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	209 e	-	-	-	-	49
South Africa	-	-	100 e	-	-	-	-	-	-
Former USSR[2]	-	-	-	-	-	-	-	-	-
Russia[3]	-	-	*1200*	*394 e*	*956*	*489*	*1099*	*712*	*633*
Other Former USSR[3]	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-
Non-specified/other	-	-	-	34 e	-	-	-	-	-
Steam coal	**160**	**1045**	**12442 e**	**44149 e**	**57155**	**56131**	**59626**	**65753**	**75502**
Australia	-	800	3506 e	12019 e	17695	19207	17344	14799	23347
Canada	-	15	1250 e	1647 e	280	4	766	1059	1450
Czech Republic	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-
Poland	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-
United States	-	230	1235 e	166 e	530	365	538	71	44
Other OECD	-	-	-	62 e	242	56	3	7	-
China, People's Rep.	-	-	1000 e	20210 e	20351	17580	15646	17748	15536
Colombia	-	-	-	-	-	-	-	-	-
Indonesia	-	-	397 e	5277 e	13457	15382	20697	25336	26362
South Africa	-	-	5054 e	2503 e	-	-	-	301	609
Former USSR[2]	-	-	-	-	-	-	-	-	-
Russia[3]	-	-	-	*2197 e*	*4087*	*3018*	*3933*	*5643*	*6864*
Other Former USSR[3]	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	68 e	513	358	635	755	1212
Non-specified/other	160	-	-	-	-	161	64	34	78

Source: IEA/OECD Coal Statistics

(1) Earliest year for which split by coal type is available.

(2) If no detail.

(3) Data for former republics are not available separately for some OECD member countries.

* Please refer to notes in *Principles and Definitions*.

Korea

12. COAL IMPORT VALUES BY ORIGIN*

(average unit value, CIF, US$/tonne)

	1988	1990	1995	2003	2004	2005	2006	2007	2008
Coking coal[1]	**..**	**..**	**..**	**46.58**	**68.79**	**110.75**	**114.69**	**105.43**	**198.33**
Imports from:									
Australia	..	..	..	46.19	58.24	106.89	112.87	103.16	212.42
Canada	..	..	..	48.65	60.15	106.32	125.78	109.12	225.52
Czech Republic	..	..	..	..	..	..	..	..	..
Poland	..	..	..	..	..	..	..	..	..
United States	..	..	..	..	144.12	138.42	135.17	123.05	301.67
China	..	..	..	44.61	111.54	121.09	108.61	107.69	275.89
Colombia	..	..	..	..	..	..	..	..	..
South Africa	..	..	..	..	..	..	..	..	..
Former USSR[2]	..	..	..	48.38	82.15	124.34	95.28	102.14	280.59
Steam coal[3]	**..**	**..**	**..**	**29.39**	**48.21**	**55.76**	**51.73**	**61.19**	**88.66**
Imports from:									
Australia	..	..	..	29.95	48.77	58.85	54.91	60.28	93.33
Canada	..	..	..	31.81	58.71	95.90	59.40	67.51	83.70
Czech Republic	..	..	..	..	..	..	..	..	..
Poland	..	..	..	..	..	..	..	..	..
United States	..	..	..	..	30.33	31.96	32.11	29.67	95.92
China	..	..	..	29.66	51.54	59.44	56.63	69.56	113.59
Colombia	..	..	..	..	..	..	..	..	..
South Africa	..	..	..	24.21	..	..	..	71.15	76.36
Former USSR[2]	..	..	..	30.68	57.14	58.14	54.19	71.32	116.34

Source: IEA/OECD Coal Statistics

Note: On occasion, shipment of extremely small quantities of high valued coal results in high import costs.

(1) Weighted average of individual countries using import volumes as weights. Prices exclude intra-EU trade.

(2) Former USSR until 1991, Russia starting in 1992.

(3) Bituminous steam coal only. Weighted average of individual countries using volumes as weights. Prices exclude intra-EU trade.

* Please refer to notes in *Principles and Definitions*.

Luxembourg*

Chart 1: TPES by fuel (Mtce)

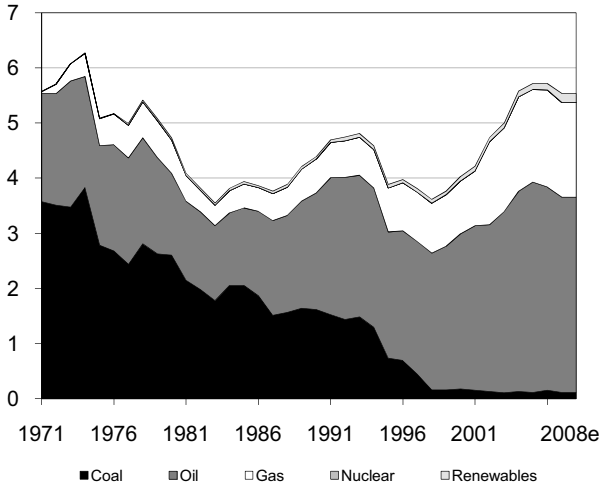


Chart 2: Coal supply indicators (1971 = 100)

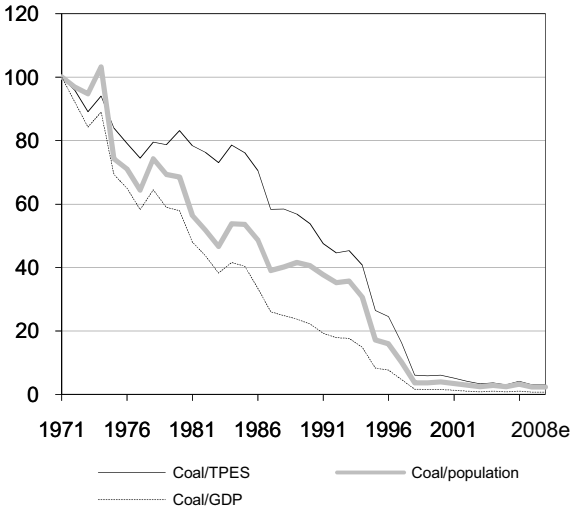


Chart 3: Primary coal supply (Mtce)

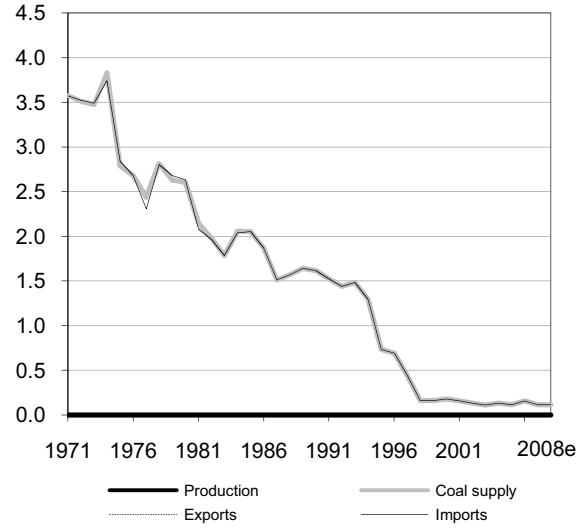


Chart 4: Coal consumption (Mtce)

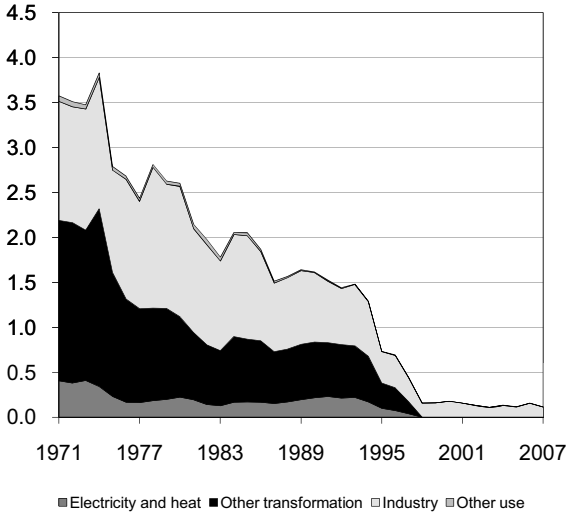


Chart 5: Electricity generation by fuel (TWh)

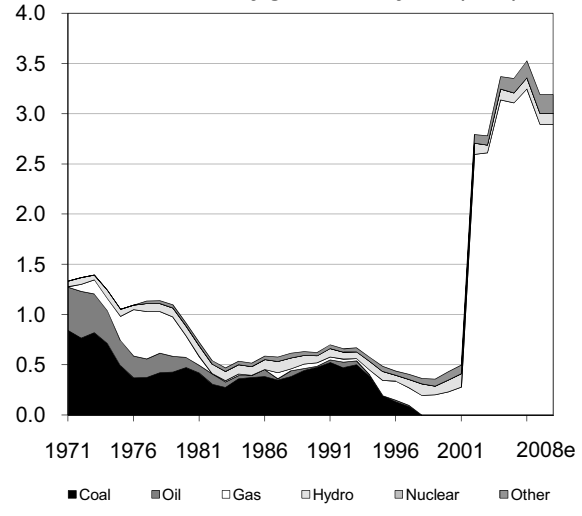
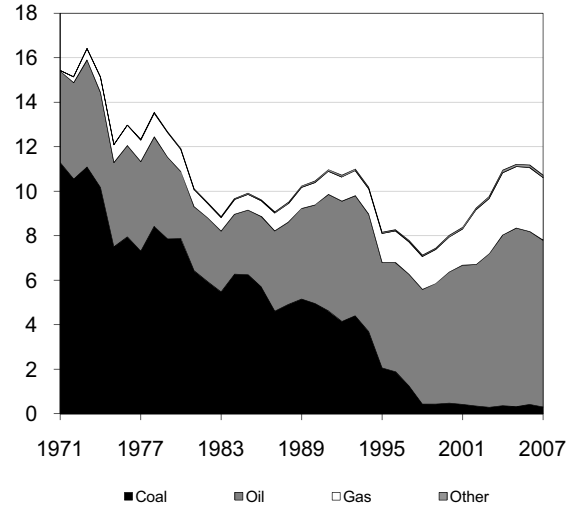


Chart 6: CO_2 emissions by fuel (Mt CO_2)



*Please refer to notes in *Principles and Definitions*. Peat is included in coal for all charts.

Luxembourg

1. TOTAL PRIMARY ENERGY SUPPLY (TPES) BY FUEL*

	1973	1980	1990	2000	2006	2007	2008e	Average annual percent change 73-90	90-07
TPES (Mtce)	**6.33**	**5.08**	**4.88**	**4.74**	**6.15**	**6.03**	**5.90**	**-1.53**	**1.26**
Coal and peat	3.48	2.61	1.62	0.18	0.16	0.11	0.08	-4.40	-14.46
Oil	2.29	1.48	2.12	2.82	3.68	3.54	3.59	-0.45	3.08
Gas	0.31	0.61	0.61	0.96	1.76	1.72	1.56	4.05	6.24
Comb. renew/waste	-	0.03	0.04	0.06	0.09	0.14	0.11	-	8.52
Nuclear	-	-	-	-	-	-	-	-	-
Hydro	0.01	0.01	0.01	0.01	0.01	0.01	0.01	2.37	2.58
Geothermal	-	-	-	-	-	-	-	-	-
Solar, wind, tide	-	-	-	0.00	0.01	0.01	0.01	-	-
Net electricity trade(1)	0.25	0.35	0.48	0.70	0.44	0.49	0.53	3.95	0.04
Heat(2)	-	-	-	-	-	-	-	-	-

Source: *IEA/OECD Energy Balances of OECD Countries*

(1) Net trade between OECD and non-OECD countries.

(2) Ambient heat from heat pumps used in the transformation sector.

2. ENERGY SUPPLY, GDP AND POPULATION*

	1973	1980	1990	2000	2006	2007	2008e	Average annual percent change 73-90	90-07
GDP (2000 bil. US$)	7	8	12	20	26	27	28	3.40	4.70
TPES/GDP(1)	0.90	0.66	0.39	0.23	0.24	0.22	0.21	-4.77	-3.28
Population (millions)	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.50	1.35
TPES/population(1)	18.04	13.97	12.76	10.79	13.01	12.56	12.12	-2.02	-0.10
TPES/GDP(2)	385.8	284.4	168.2	100.0	102.4	95.3	91.2	-4.77	-3.28
Coal and peat supply/GDP(2)	5603.2	3853.7	1475.8	100.0	69.4	47.6	32.5	-7.55	-18.29
Elec. consumption/GDP(2)	150.1	166.2	118.9	100.0	89.9	87.9	..	-1.36	-1.76
Elec. generation (TWh)	1	1	1	0	4	3	3	-4.62	10.08
Industrial production(2)	63.7	55.4	79.5	100.0	122.5	117.5	112.5	1.31	2.33

Source: *IEA/OECD Energy Balances of OECD Countries* , *OECD Main Economic Indicators*

(1) TPES/GDP in units of tce/2000 thousand US$, TPES/population in units of tce/capita.

(2) As index, 2000 = 100

3. COAL AND PEAT PRODUCTION BY TYPE*

	1978(1)	1980	1990	2000	2006	2007	2008e	Average annual percent change 78-90	90-07
Mtce:									
Coking coal	-	-	-	-	-	-	-	-	-
Steam coal	-	-	-	-	-	-	-	-	-
Brown coal	-	-	-	-	-	-	-	-	-
Peat	-	-	-	-	-	-	-	-	-
Mt:									
Coking coal	-	-	-	-	-	-	-	-	-
Steam coal	-	-	-	-	-	-	-	-	-
Brown coal	-	-	-	-	-	-	-	-	-
Peat	-	-	-	-	-	-	-	-	-

Source: *IEA/OECD Energy Balances of OECD Countries, IEA/OECD Energy Statistics of OECD Countries*

(1) Earliest year for which split by coal type is available.

* Please refer to notes in *Principles and Definitions* .

Luxembourg

4. FINAL CONSUMPTION OF ENERGY BY FUEL*

(Mtce)

	1973	1980	1990	2000	2005	2006	2007	Average annual percent change 73-90	90-07
TFC[1]	**4.10**	**3.87**	**4.00**	**4.64**	**5.73**	**5.73**	**5.65**	**-0.15**	**2.05**
Coal and peat	1.40	1.49	0.78	0.18	0.12	0.16	0.11	-3.36	-10.71
Oil	2.09	1.44	2.11	2.81	3.81	3.68	3.55	0.05	3.10
Gas	0.25	0.51	0.60	0.89	0.93	0.98	1.02	5.21	3.17
Comb. renew/wastes	-	-	-	0.02	0.02	0.02	0.07	-	-
Geothermal	-	-	-	-	-	-	-	-	-
Solar, wind, tide	-	-	-	0.00	0.00	0.00	0.00	-	-
Electricity	0.36	0.44	0.51	0.70	0.76	0.80	0.82	1.99	2.85
Heat	-	-	-	0.04	0.09	0.09	0.08	-	-
of which:									
Total industry	**2.94**	**2.34**	**1.91**	**1.37**	**1.35**	**1.46**	**1.47**	**-2.52**	**-1.50**
Coal and peat	1.35	1.45	0.77	0.18	0.12	0.16	0.11	-3.22	-10.65
Oil	1.10	0.24	0.39	0.11	0.12	0.11	0.11	-5.94	-7.10
Gas	0.20	0.35	0.40	0.59	0.60	0.62	0.68	4.17	3.20
Comb. renew/wastes	-	-	-	-	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-	-	-
Solar, wind, tide	-	-	-	-	-	-	-	-	-
Electricity	0.29	0.30	0.35	0.47	0.49	0.52	0.54	1.02	2.71
Heat	-	-	-	0.02	0.03	0.04	0.02	-	-
Total transport	**0.33**	**0.62**	**1.26**	**2.23**	**3.27**	**3.18**	**3.12**	**8.12**	**5.50**
Coal and peat	-	-	-	-	-	-	-	-	-
Oil	0.33	0.61	1.25	2.22	3.26	3.17	3.06	8.16	5.40
Gas	-	-	-	-	-	-	-	-	-
Comb. renew/wastes	-	-	-	-	0.00	0.00	0.05	-	-
Electricity	0.00	0.01	0.01	0.01	0.01	0.01	0.01	3.05	4.59
Residential	**0.73**	**0.76**	**0.71**	**0.85**	**0.88**	**0.86**	**0.83**	**-0.10**	**0.89**
Coal and peat	0.05	0.03	0.01	0.00	0.00	0.00	-	-9.72	-
Oil	0.60	0.51	0.43	0.43	0.38	0.35	0.33	-1.86	-1.58
Gas	0.05	0.16	0.20	0.30	0.34	0.35	0.34	8.04	3.11
Comb. renew/wastes	-	-	-	0.02	0.02	0.02	0.02	-	-
Geothermal	-	-	-	-	-	-	-	-	-
Solar, wind, tide	-	-	-	0.00	0.00	0.00	0.00	-	-
Electricity	0.03	0.06	0.07	0.08	0.09	0.09 e	0.09 e	5.87	1.57
Heat	-	-	-	0.01	0.05	0.05	0.05	-	-
Comm & public services	**-**	**0.06**	**0.08**	**0.13**	**0.16**	**0.16**	**0.16**	**-**	**4.44**
Coal and peat	-	-	-	-	-	-	-	-	-
Oil	-	-	-	-	-	-	-	-	-
Gas	-	-	-	-	-	-	-	-	-
Comb. renew/waste	-	-	-	-	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-	-	-
Solar, wind, tide	-	-	-	-	-	-	-	-	-
Electricity	-	0.06	0.08	0.13	0.16	0.16 e	0.16 e	-	4.44
Heat	-	-	-	-	-	-	-	-	-
Non-energy use	**0.04**	**0.06**	**0.03**	**0.02**	**0.03**	**0.03**	**0.02**	**-1.93**	**-2.77**
Coal and peat	-	-	-	-	-	-	-	-	-
Oil	0.04	0.06	0.03	0.02	0.03	0.03	0.02	-1.93	-2.77
Gas	-	-	-	-	-	-	-	-	-

Source: *IEA/OECD Energy Balances of OECD Countries*

(1) Total Final Consumption (TFC) excludes use in transformation and energy sectors.

* Please refer to notes in *Principles and Definitions*.

Luxembourg

5. COAL BALANCE*

(Mtce)

	1973	1980	1990	2000	2006	2007	2008e	Average annual percent change 73-90	90-07
Production	-	-	-	-	-	-	-	-	-
Imports	3.5	2.6	1.6	0.2	0.2	0.1	0.1	-4.4	-14.5
Exports	-	-	-	-	-	-	-	-	-
Stock changes	-0.0	-0.0	-	-	-	-	-	x	x
Primary supply	**3.5**	**2.6**	**1.6**	**0.2**	**0.2**	**0.1**	**0.1**	**-4.4**	**-14.5**
Statistical difference	**0.0**	**-**	**-**	**-**	**-**	**-**	**..**	**x**	**x**
Total transformation	**-1.9 e**	**-1.1 e**	**-0.8 e**	**-**	**-**	**-**	**..**	**-5.1**	**-**
Electricity and heat gen.	-0.4	-0.2	-0.2	-	-	-	..	-3.7	-
Main activity producers (1)	*-0.4*	-	-	-	-	-	..	-	-
Autoproducers	-	*-0.2*	*-0.2*	-	-	-	..	-	-
Gas works	-	-	-	-	-	-	..	-	-
Coal transformation(2)	-1.5 e	-0.8 e	-0.6 e	-	-	-	..	-5.5	-
BKB plants	-	-	-	-	-	-	..	-	-
Blast furnaces	*-1.5 e*	*-0.8 e*	*-0.6 e*	-	-	-	..	*-5.5*	-
Coke ovens	-	-	-	-	-	-	..	-	-
Patent fuel plants	-	-	-	-	-	-	..	-	-
Other transformation(3)	-	-	-	-	-	-	..	-	-
Own use	**-**	**-**	**-**	**-**	**-**	**-**	**..**	**-**	**-**
Distribution losses	**-0.1**	**-0.1**	**-0.0**	**-**	**-**	**-**	**..**	**x**	**x**
Final consumption(4)	**1.4**	**1.5**	**0.8**	**0.2**	**0.2**	**0.1**	**..**	**-3.4**	**-10.7**
Industry sector(5)	1.3	1.5	0.8	0.2	0.2	0.1	..	-3.2	-10.7
Iron and steel	*1.3*	*1.3 e*	*0.6 e*	*0.0*	*0.0*	*0.0*	..	*-4.5*	*-14.3*
Chemical	-	-	-	-	-	-	..	-	-
Non-metallic minerals	-	*0.1*	*0.2*	*0.1*	*0.1*	*0.1*	..	-	*-4.9*
Paper, pulp and print	-	-	-	-	-	-	..	-	-
Transport sector(6)	-	-	-	-	-	-	..	-	-
Other sectors(7)	0.0	0.0	0.0	0.0	0.0	-	..	-9.7	-
Comm. and pub. services	-	-	-	-	-	-	..	-	-
Residential	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	-	..	*-9.7*	-
Non-energy use	-	-	-	-	-	-	..	-	-

Source: *IEA/OECD Energy Balances of OECD Countries*

(1) Main activity electricity and heat generation includes district heating.

(2) Coal transformation refers to the transformation of coal and peat to secondary and tertiary products (mainly coke, briquettes, coke oven gas and blast furnace gas).

(3) Other transformation includes liquefaction and non-specified transformation.

(4) Final Consumption includes non-energy use and energy use (industry, transport and other sectors).

(5) Please refer to notes in *Principles and Definitions* for detailed explanation.

(6) Transport sector includes rail and inland waterways.

(7) Other sectors includes commercial and public services, agriculture, and residential.

* "Coal" refers to all types of coal, primary (anthracite, coking coal, other bituminous coal, sub-bituminous coal, lignite/brown coal, peat) and derived fuels (including patent fuel, BKB/peat briquettes, coke oven coke, gas coke, coal tar, coke oven gas, gas works gas, blast furnace gas and oxygen steel furnace gas). Quantities have been converted to Mtce using calorific values reported by the respective countries. Please refer to notes in *Principles and Definitions*.

Luxembourg

6. USE OF COAL FOR SELECTED END-USES*

(million tonnes)

	1978	1980	1990	2000	2005	2006	2007	Average annual percent change 78-90	90-07
Steam coal	**0.50**	**0.35**	**0.20**	**0.17**	**0.11**	**0.15**	**0.11**	**-7.48**	**-3.42**
Total electricity and heat	-	0.02	-	-	-	-	-	-	-
Main activity producers	-	-	-	-	-	-	-	-	-
Autoproducers	-	*0.02*	-	-	-	-	-	-	-
Patent fuel/BKB plants	-	-	-	-	-	-	-	-	-
Coke ovens	-	-	-	-	-	-	-	-	-
Blast furnace inputs	-	-	-	-	-	-	-	-	-
Gas manufacture	-	-	-	-	-	-	-	-	-
Industry sector	0.50	0.33	0.20	0.17	0.11	0.15	0.11	-7.45	-3.39
Iron and steel	*0.50*	*0.22*	*0.04*	*0.04*	*0.03*	*0.05*	*0.04*	*-19.27*	*0.87*
Chemical	-	-	-	-	-	-	-	-	-
Non-metallic minerals	-	*0.11*	*0.16*	*0.13*	*0.08*	*0.10*	*0.07*	-	*-5.09*
Paper, pulp and print	-	-	-	-	-	-	-	-	-
Other industry	-	-	-	-	-	-	-	-	-
Res, comm & pub serv[(1)]	0.01	0.01	0.00	-	-	-	-	-12.55	-
Non-energy use	-	-	-	-	-	-	-	-	-
Coking coal	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
Total electricity and heat	-	-	-	-	-	-	-	-	-
Main activity producers	-	-	-	-	-	-	-	-	-
Autoproducers	-	-	-	-	-	-	-	-	-
Patent fuel/BKB plants	-	-	-	-	-	-	-	-	-
Coke ovens	-	-	-	-	-	-	-	-	-
Blast furnace inputs	-	-	-	-	-	-	-	-	-
Gas manufacture	-	-	-	-	-	-	-	-	-
Industry sector	-	-	-	-	-	-	-	-	-
Iron and steel	-	-	-	-	-	-	-	-	-
Chemical	-	-	-	-	-	-	-	-	-
Non-metallic minerals	-	-	-	-	-	-	-	-	-
Paper, pulp and print	-	-	-	-	-	-	-	-	-
Other industry	-	-	-	-	-	-	-	-	-
Res, comm & pub serv[(1)]	-	-	-	-	-	-	-	-	-
Non-energy use	-	-	-	-	-	-	-	-	-
Brown coal/lignite	**0.02**	**0.03**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
Total electricity and heat	-	-	-	-	-	-	-	-	-
Main activity producers	-	-	-	-	-	-	-	-	-
Autoproducers	-	-	-	-	-	-	-	-	-
Patent fuel/BKB plants	-	-	-	-	-	-	-	-	-
Coke ovens	-	-	-	-	-	-	-	-	-
Gas manufacture	-	-	-	-	-	-	-	-	-
Industry sector	0.02	0.03	-	-	-	-	-	-	-
Iron and steel	*0.02*	*0.03*	-	-	-	-	-	-	-
Chemical	-	-	-	-	-	-	-	-	-
Non-metallic minerals	-	-	-	-	-	-	-	-	-
Paper, pulp and print	-	-	-	-	-	-	-	-	-
Other industry	-	-	-	-	-	-	-	-	-
Res, comm & pub serv[(1)]	-	-	-	-	-	-	-	-	-
Non-energy use	-	-	-	-	-	-	-	-	-

Source: *IEA/OECD Energy Statistics of OECD Countries*

(1) Residential, commercial and public services.

* Please refer to notes in *Principles and Definitions* .

Luxembourg

7. FUEL PRICES TO END USERS*

	1978[1]	1980	1990	2000	2004	2005	2006	2007	2008
				(US dollars / tce)					
For electricity generation									
Steam coal	..	..	..	..	..	..	..	..	..
Heavy fuel oil	..	131.80	..	..	..	..	..	..	..
Natural gas	..	..	..	..	..	..	..	..	..
For industry									
Steam coal	..	..	..	..	..	..	..	..	..
Coking coal	x	x	x	x	x	x	x	x	x
High sulphur fuel oil	..	..	94.73	x	x	x	x	x	x
Low sulphur fuel oil	..	..	..	130.60	152.43	..	..	..	..
Natural gas	..	134.97	..	..	..	..	..	..	..
				(Euro / unit)[2]					
For electricity generation									
Steam coal	..	..	..	..	..	..	..	..	..
Heavy fuel oil	..	131.73	..	..	..	..	..	..	..
Natural gas	..	..	..	..	..	..	..	..	..
For industry									
Steam coal	..	..	..	..	..	..	..	..	..
Coking coal	x	x	x	x	x	x	x	x	x
High sulphur fuel oil	..	..	108.26	x	x	x	x	x	x
Low sulphur fuel oil	..	..	..	195.34	169.16	..	..	..	..
Natural gas	..	125.81	..	..	..	..	..	..	..

Source: *IEA/OECD Energy Prices & Taxes*

(1) Earliest year for which split by coal type is available.

(2) For steam coal, coking coal and heavy fuel oil per metric tonne; for natural gas per 10^7 kilocalories GCV.

* Please refer to notes in *Principles and Definitions*.

8. COAL TRADE BY TYPE OF COAL*

(Mtce)

	1973	1980	1990	2000	2004	2005	2006	2007	2008e
Total imports	**3.49**	**2.63**	**1.62**	**0.18**	**0.13**	**0.12**	**0.16**	**0.11**	**0.08**
Hard coal	0.30	0.36	0.20	0.17	0.13	0.11	0.15	0.11	0.07
Coking coal	..	-	-	-	-	-	-	-	-
Steam coal	..	*0.36*	*0.20*	*0.17*	*0.13*	*0.11*	*0.15*	*0.11*	*0.07*
Brown coal / lignite	-	0.02	-	-	-	-	-	-	-
Peat	-	-	-	-	-	-	-	-	-
Coal products[1]	3.19	2.26	1.42	0.01	0.01	0.01	0.00	0.00	0.01
Total exports	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
Hard coal	-	-	-	-	-	-	-	-	-
Coking coal	..	-	-	-	-	-	-	-	-
Steam coal	..	-	-	-	-	-	-	-	-
Brown coal / lignite	-	-	-	-	-	-	-	-	-
Peat	-	-	-	-	-	-	-	-	-
Coal products[1]	-	-	-	-	-	-	-	-	-

Source: *IEA/OECD Energy Balances of OECD Countries, IEA/OECD Energy Statistics of OECD Countries*

(1) Coal products includes products derived from coal, for example: coke, coal tar, briquettes, patent fuels.

* Please refer to notes in *Principles and Definitions*.

Luxembourg

9. HARD COAL IMPORTS BY ORIGIN*

(thousand tonnes)

	1978[1]	1980	1990	2000	2004	2005	2006	2007	2008e
Hard Coal	**495**	**364**	**197**	**171**	**129**	**111**	**153**	**109**	**74**
Coking Coal	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
Australia	-	-	-	-	-	-	-	-	-
Canada	-	-	-	-	-	-	-	-	-
Czech Republic	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-
Poland	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-
United States	-	-	-	-	-	-	-	-	-
Other OECD	-	-	-	-	-	-	-	-	-
China, People's Rep.	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-
South Africa	-	-	-	-	-	-	-	-	-
Former USSR[2]	-	-	-	-	-	-	-	-	-
Russia[3]	-	-	-	-	-	-	-	-	-
Other Former USSR[3]	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-
Non-specified/other	-	-	-	-	-	-	-	-	-
Steam coal	**495**	**364**	**197**	**171**	**129**	**111**	**153**	**109**	**74**
Australia	-	-	-	-	-	-	-	-	-
Canada	-	-	-	-	-	-	-	-	-
Czech Republic	-	-	-	-	-	-	-	-	-
Germany	299	75	1	5	7	3	4	1	1
Poland	-	-	-	-	-	-	-	-	-
United Kingdom	12	50	-	-	-	-	-	-	-
United States	1	171	-	-	-	-	-	-	-
Other OECD	6	23	34	52	60	59	97	57	73
China, People's Rep.	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-
South Africa	125	45	138	114	62	49	52	51	-
Former USSR[2]	-	-	-	-	-	-	-	-	-
Russia[3]	-	-	*24*	-	-	-	-	-	-
Other Former USSR[3]	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-
Non-specified/other	52	-	-	-	-	-	-	-	-

Source: IEA/OECD Coal Statistics

(1) Earliest year for which split by coal type is available.

(2) If no detail.

(3) Data for former republics are not available separately for some OECD member countries.

* Please refer to notes in *Principles and Definitions*.

Mexico*

Chart 1: TPES by fuel (Mtce)

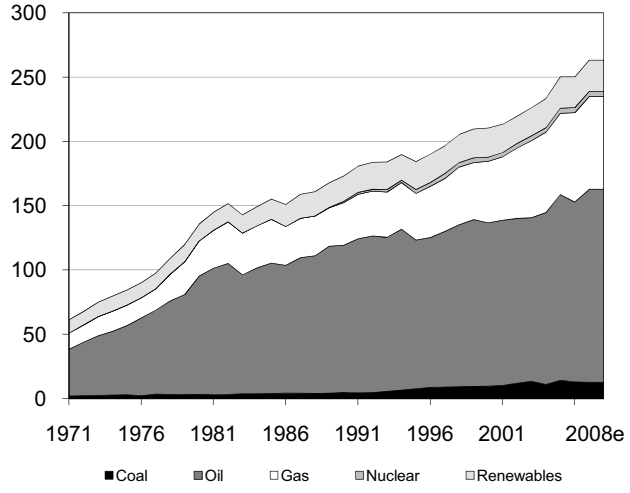


Chart 2: Coal supply indicators (1971 = 100)

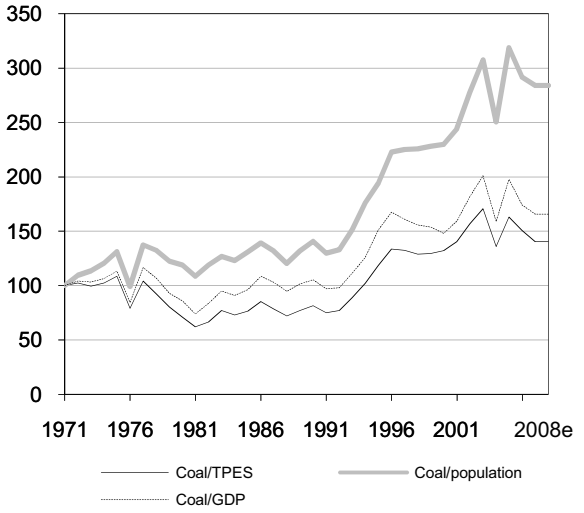


Chart 3: Primary coal supply (Mtce)

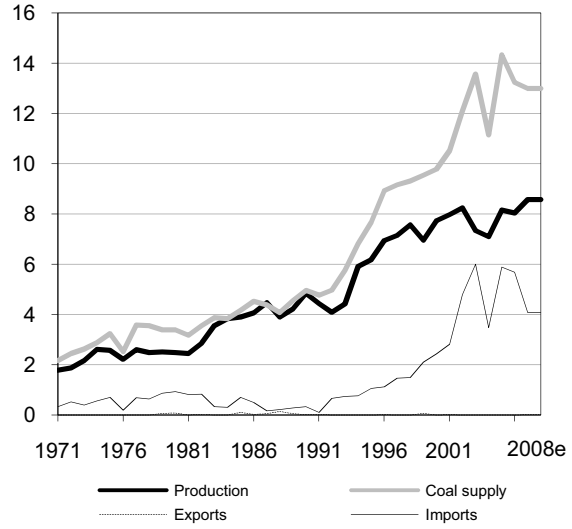


Chart 4: Coal consumption (Mtce)

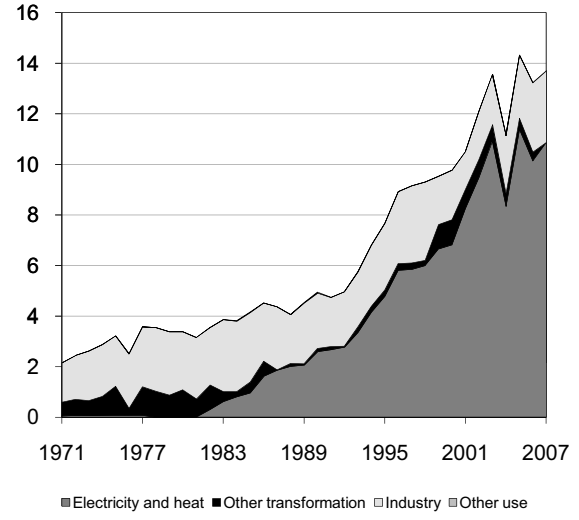


Chart 5: Electricity generation by fuel (TWh)

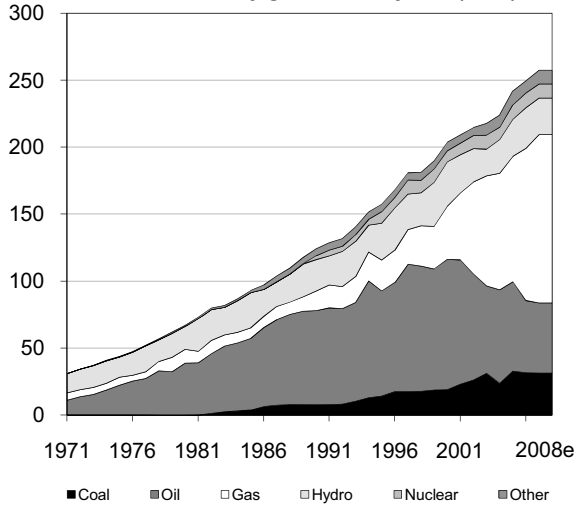
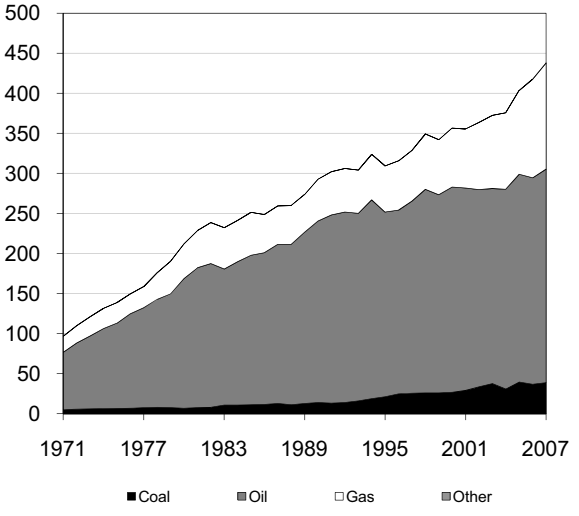


Chart 6: CO_2 emissions by fuel (Mt CO_2)



*Please refer to notes in *Principles and Definitions* . Peat is included in coal for all charts.

Mexico

1. TOTAL PRIMARY ENERGY SUPPLY (TPES) BY FUEL*

	1973	1980	1990	2000	2006	2007	2008e	Average annual percent change 73-90	90-07
TPES (Mtce)	**75.10**	**135.88**	**173.09**	**210.62**	**250.14**	**263.23**	**266.07**	**5.03**	**2.50**
Coal and peat	2.62	3.38	4.95	9.78	13.24	13.00	10.74	3.81	5.84
Oil	46.39	92.07	114.52	127.06	139.84	149.90	151.49	5.46	1.60
Gas	14.99	27.33	33.03	47.87	69.37	72.20	74.84	4.76	4.71
Comb. renew/waste	8.87	9.82	10.49	11.35	11.66	11.77	11.81	0.99	0.68
Nuclear	-	-	1.09	3.06	4.05	3.88	3.65	-	7.73
Hydro	1.99	2.07	2.88	4.07	3.73	3.35	4.78	2.21	0.89
Geothermal	0.20	1.12	6.29	7.25	8.21	9.09	8.67	22.57	2.19
Solar, wind, tide	-	-	0.00	0.06	0.14	0.19	0.24	-	47.77
Net electricity trade[1]	0.04	0.08	-0.17	0.11	-0.10	-0.14	-0.14	-	-0.90
Heat[2]	-	-	-	-	-	-	-	-	-

Source: *IEA/OECD Energy Balances of OECD Countries*

(1) Net trade between OECD and non-OECD countries.

(2) Ambient heat from heat pumps used in the transformation sector.

2. ENERGY SUPPLY, GDP AND POPULATION*

	1973	1980	1990	2000	2006	2007	2008e	Average annual percent change 73-90	90-07
GDP (2000 bil. US$)	245	378	453	637	732	755	765	3.68	3.06
TPES/GDP[1]	0.31	0.36	0.38	0.33	0.34	0.35	0.35	1.30	-0.54
Population (millions)	53.3	65.7	81.3	98.3	104.7	105.7	106.6	2.51	1.56
TPES/population[1]	1.41	2.07	2.13	2.14	2.39	2.49	2.50	2.46	0.92
TPES/GDP[2]	92.8	108.6	115.6	100.0	103.3	105.4	105.1	1.30	-0.54
Coal and peat supply/GDP[2]	69.8	58.2	71.2	100.0	117.8	112.1	91.3	0.12	2.70
Elec. consumption/GDP[2]	50.7	59.3	87.0	100.0	102.4	102.1	..	3.23	0.95
Elec. generation (TWh)	37	67	124	204	250	257	258	7.36	4.38
Industrial production[2]	..	56.5	67.3	100.0	105.9	108.5	107.8	-	2.85

Source: *IEA/OECD Energy Balances of OECD Countries* , *OECD Main Economic Indicators*

(1) TPES/GDP in units of tce/2000 thousand US$, TPES/population in units of tce/capita.

(2) As index, 2000 = 100

3. COAL AND PEAT PRODUCTION BY TYPE*

	1978[1]	1980	1990	2000	2006	2007	2008e	Average annual percent change 78-90	90-07
Mtce:									
Coking coal	2.47	2.48	2.37	1.77	1.53	1.65	1.51	-0.34	-2.12
Steam coal	-	-	2.46	5.96	6.51	6.92	6.35	-	6.26
Brown coal	-	-	-	-	-	-	-	-	-
Peat	-	-	-	-	-	-	-	-	-
Mt:									
Coking coal	3.09	3.09	2.96	2.21	1.91	2.06	1.89	-0.34	-2.12
Steam coal	-	-	3.97	9.13	9.57	10.46	9.59	-	5.86
Brown coal	-	-	-	-	-	-	-	-	-
Peat	-	-	-	-	-	-	-	-	-

Source: *IEA/OECD Energy Balances of OECD Countries, IEA/OECD Energy Statistics of OECD Countries*

(1) Earliest year for which split by coal type is available.

* Please refer to notes in *Principles and Definitions* .

Mexico

4. FINAL CONSUMPTION OF ENERGY BY FUEL*

(Mtce)

	1973	1980	1990	2000	2005	2006	2007	Average annual percent change 73-90	90-07
TFC[1]	**56.77**	**94.17**	**123.57**	**139.83**	**150.94**	**157.37**	**163.95**	**4.68**	**1.68**
Coal and peat	1.96	2.29	2.22	1.97	2.50	2.75	2.83	0.75	1.44
Oil	31.69	56.70	78.31	86.05	95.73	100.02	104.75	5.47	1.73
Gas	10.38	18.34	20.23	21.64	19.69	20.96	21.98	4.00	0.49
Comb. renew/wastes	8.87	9.82	10.49	10.19	10.27	10.05	10.10	0.99	-0.22
Geothermal	-	-	-	-	-	-	-	-	-
Solar, wind, tide	-	-	-	0.06	0.12	0.13	0.15	-	-
Electricity	3.88	7.02	12.31	19.92	22.62	23.45	24.13	7.03	4.04
Heat	-	-	-	-	-	-	-	-	-
of which:									
Total industry	**20.16**	**31.75**	**39.55**	**42.56**	**38.97**	**39.54**	**41.44**	**4.04**	**0.28**
Coal and peat	1.96	2.29	2.19	1.97	2.50	2.75	2.83	0.66	1.53
Oil	5.00	8.61	12.85	10.95	7.22	6.67	7.57	5.71	-3.07
Gas	9.09	14.93	15.46	15.76	14.28	14.85	15.25	3.17	-0.08
Comb. renew/wastes	1.89	2.20	2.49	1.66	1.83	1.62	1.68	1.62	-2.28
Geothermal	-	-	-	-	-	-	-	-	-
Solar, wind, tide	-	-	-	-	-	-	-	-	-
Electricity	2.22	3.71	6.56	12.22	13.15	13.64	14.11	6.57	4.61
Heat	-	-	-	-	-	-	-	-	-
Total transport	**17.72**	**32.57**	**42.06**	**50.34**	**63.98**	**68.78**	**72.65**	**5.21**	**3.27**
Coal and peat	-	-	-	-	-	-	-	-	-
Oil	17.68	32.52	41.96	49.30	62.80	67.20	70.84	5.22	3.13
Gas	-	-	-	0.91	1.04	1.44	1.67	-	-
Comb. renew/wastes	-	-	-	-	-	-	-	-	-
Electricity	0.04	0.05	0.10	0.13	0.15	0.15	0.15	4.91	2.33
Residential	**12.27**	**15.94**	**21.08**	**24.71**	**25.91**	**26.57**	**26.62**	**3.23**	**1.38**
Coal and peat	-	-	-	-	-	-	-	-	-
Oil	3.68	6.42	9.41	10.91	10.57	10.99	10.82	5.68	0.82
Gas	0.56	0.67	1.16	0.84	1.23	1.20	1.25	4.40	0.46
Comb. renew/wastes	6.98	7.62	8.01	8.53	8.45	8.43	8.42	0.81	0.30
Geothermal	-	-	-	-	-	-	-	-	-
Solar, wind, tide	-	-	-	-	-	-	-	-	-
Electricity	1.06	1.23	2.51	4.44	5.67	5.94	6.13	5.17	5.40
Heat	-	-	-	-	-	-	-	-	-
Comm & public services	**1.00**	**2.80**	**3.21**	**4.97**	**5.29**	**5.47**	**5.53**	**7.08**	**3.25**
Coal and peat	-	-	-	-	-	-	-	-	-
Oil	1.00	1.84	1.88	2.47	2.29	2.38	2.36	3.75	1.36
Gas	-	-	-	0.27	0.29	0.31	0.32	-	-
Comb. renew/waste	-	-	-	-	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-	-	-
Solar, wind, tide	-	-	-	0.06	0.12	0.13	0.15	-	-
Electricity	-	0.97	1.34	2.16	2.59	2.65	2.70	-	4.23
Heat	-	-	-	-	-	-	-	-	-
Non-energy use	**3.36**	**7.12**	**13.44**	**13.27**	**12.25**	**12.25**	**12.81**	**8.50**	**-0.28**
Coal and peat	-	-	0.03	-	-	-	-	-	-
Oil	2.63	4.39	9.79	9.41	9.40	9.09	9.31	8.04	-0.30
Gas	0.73	2.73	3.61	3.85	2.85	3.16	3.50	9.89	-0.19

Source: *IEA/OECD Energy Balances of OECD Countries*

(1) Total Final Consumption (TFC) excludes use in transformation and energy sectors.

* Please refer to notes in *Principles and Definitions*.

Mexico

5. COAL BALANCE*

(Mtce)

	1973	1980	1990	2000	2006	2007	2008e	Average annual percent change 73-90	90-07
Production	2.2	2.5	4.8	7.7	8.0	8.6	7.9	4.8	3.4
Imports	0.4	0.9	0.3	2.4	5.7	4.1	3.3	-0.9	15.8
Exports	-	-0.1	-0.0	-0.0	-0.0	-0.0	-0.0	-	0.5
Stock changes	0.1	0.1	-0.2	-0.4	-0.5	0.4	-0.5	x	x
Primary supply	**2.6**	**3.4**	**5.0**	**9.8**	**13.2**	**13.0**	**10.7**	**3.8**	**5.8**
Statistical difference	**-0.1**	**-0.2**	**0.1**	**-**	**-**	**1.0**	**..**	**x**	**x**
Total transformation	**-0.5**	**-0.9**	**-2.8**	**-7.8 e**	**-10.4**	**-11.1**	**..**	**10.3**	**8.6**
Electricity and heat gen.	-0.1	-	-2.6	-6.8	-10.1	-10.9	..	23.5	8.8
Main activity producers (1)	*-0.1*	-	*-2.6*	*-6.2*	*-10.0*	*-10.7*	..	*23.5*	*8.7*
Autoproducers	-	-	-	*-0.6*	*-0.2*	*-0.1*	..	-	-
Gas works	-	-	-	-	-	-	..	-	-
Coal transformation(2)	-0.4	-0.9	-0.2	-0.9 e	-0.3	-0.3	..	-6.0	3.2
BKB plants	-	-	-	-	-	-	..	-	-
Blast furnaces	-	-	-	*-0.7 e*	*-0.2*	*-0.2*	..	-	-
Coke ovens	*-0.4*	*-0.9*	*-0.2*	*-0.2*	*-0.1*	*-0.1*	..	*-6.0*	*-2.1*
Patent fuel plants	-	-	-	-	-	-	..	-	-
Other transformation(3)	-	-	-	-	-	-	..	-	-
Own use	**-0.1**	**-0.0**	**-0.1**	**-0.0**	**-0.0**	**-0.0**	**..**	**-1.6**	**-2.1**
Distribution losses	**-0.0**	**-0.0**	**-**	**-**	**-**	**-**	**..**	**x**	**x**
Final consumption(4)	**2.0**	**2.3**	**2.2**	**2.0**	**2.8**	**2.8**	**..**	**0.7**	**1.4**
Industry sector(5)	2.0	2.3	2.2	2.0	2.8	2.8	..	0.7	1.5
Iron and steel	*2.0*	*2.3*	*1.9*	*1.7 e*	*2.3*	*2.4*	..	*-0.1*	*1.3*
Chemical	-	-	-	-	-	-	..	-	-
Non-metallic minerals	-	-	*0.0*	*0.0*	*0.2*	*0.2*	..	-	*11.0*
Paper, pulp and print	-	-	-	-	-	-	..	-	-
Transport sector(6)	-	-	-	-	-	-	..	-	-
Other sectors(7)	-	-	-	-	-	-	..	-	-
Comm. and pub. services	-	-	-	-	-	-	..	-	-
Residential	-	-	-	-	-	-	..	-	-
Non-energy use	-	-	0.0	-	-	-	..	-	-

Source: *IEA/OECD Energy Balances of OECD Countries*

(1) Main activity electricity and heat generation includes district heating.

(2) Coal transformation refers to the transformation of coal and peat to secondary and tertiary products (mainly coke, briquettes, coke oven gas and blast furnace gas).

(3) Other transformation includes liquefaction and non-specified transformation.

(4) Final Consumption includes non-energy use and energy use (industry, transport and other sectors).

(5) Please refer to notes in *Principles and Definitions* for detailed explanation.

(6) Transport sector includes rail and inland waterways.

(7) Other sectors includes commercial and public services, agriculture, and residential.

* "Coal" refers to all types of coal, primary (anthracite, coking coal, other bituminous coal, sub-bituminous coal, lignite/brown coal, peat) and derived fuels (including patent fuel, BKB/peat briquettes, coke oven coke, gas coke, coal tar, coke oven gas, gas works gas, blast furnace gas and oxygen steel furnace gas). Quantities have been converted to Mtce using calorific values reported by the respective countries. Please refer to notes in *Principles and Definitions*.

Mexico

6. USE OF COAL FOR SELECTED END-USES*

(million tonnes)

	1978	1980	1990	2000	2005	2006	2007	Average annual percent change 78-90	90-07
Steam coal	**-**	**-**	**3.97**	**11.36**	**16.88**	**16.62**	**16.46**	**-**	**8.73**
Total electricity and heat	-	-	3.97	9.57	14.92	14.70	14.66	-	7.99
Main activity producers	-	-	*3.97*	*9.57*	*14.92*	*14.70*	*14.66*	-	*7.99*
Autoproducers	-	-	-	-	-	-	-	-	-
Patent fuel/BKB plants	-	-	-	-	-	-	-	-	-
Coke ovens	-	-	-	1.79	1.77	1.66	1.49	-	-
Blast furnace inputs	-	-	-	-	-	-	-	-	-
Gas manufacture	-	-	-	-	-	-	-	-	-
Industry sector	-	-	-	-	0.19	0.26	0.31	-	-
Iron and steel	-	-	-	-	-	-	-	-	-
Chemical	-	-	-	-	-	-	-	-	-
Non-metallic minerals	-	-	-	-	*0.19*	*0.26*	*0.31*	-	-
Paper, pulp and print	-	-	-	-	-	-	-	-	-
Other industry	-	-	-	-	-	-	-	-	-
Res, comm & pub serv[1]	-	-	-	-	-	-	-	-	-
Non-energy use	-	-	-	-	-	-	-	-	-
Coking coal	**4.05**	**3.97**	**2.91**	**0.93**	**0.68**	**0.84**	**1.02**	**-2.72**	**-5.99**
Total electricity and heat	-	-	-	-	-	-	-	-	-
Main activity producers	-	-	-	-	-	-	-	-	-
Autoproducers	-	-	-	-	-	-	-	-	-
Patent fuel/BKB plants	-	-	-	-	-	-	-	-	-
Coke ovens	3.97	3.98	2.89	0.93	0.68	0.84	1.02	-2.61	-5.95
Blast furnace inputs	-	-	-	-	-	-	-	-	-
Gas manufacture	-	-	-	-	-	-	-	-	-
Industry sector	-	-	-	-	-	-	-	-	-
Iron and steel	-	-	-	-	-	-	-	-	-
Chemical	-	-	-	-	-	-	-	-	-
Non-metallic minerals	-	-	-	-	-	-	-	-	-
Paper, pulp and print	-	-	-	-	-	-	-	-	-
Other industry	-	-	-	-	-	-	-	-	-
Res, comm & pub serv[1]	-	-	-	-	-	-	-	-	-
Non-energy use	-	-	-	-	-	-	-	-	-
Brown coal/lignite	**-**	**-**	**-**	**0.00**	**0.00**	**0.00**	**0.00**	**-**	**-**
Total electricity and heat	-	-	-	-	-	-	-	-	-
Main activity producers	-	-	-	-	-	-	-	-	-
Autoproducers	-	-	-	-	-	-	-	-	-
Patent fuel/BKB plants	-	-	-	-	-	-	-	-	-
Coke ovens	-	-	-	0.00	0.00	0.00	0.00	-	-
Gas manufacture	-	-	-	-	-	-	-	-	-
Industry sector	-	-	-	-	-	-	-	-	-
Iron and steel	-	-	-	-	-	-	-	-	-
Chemical	-	-	-	-	-	-	-	-	-
Non-metallic minerals	-	-	-	-	-	-	-	-	-
Paper, pulp and print	-	-	-	-	-	-	-	-	-
Other industry	-	-	-	-	-	-	-	-	-
Res, comm & pub serv[1]	-	-	-	-	-	-	-	-	-
Non-energy use	-	-	-	-	-	-	-	-	-

Source: *IEA/OECD Energy Statistics of OECD Countries*

(1) Residential, commercial and public services.

* Please refer to notes in *Principles and Definitions*.

Mexico

7. FUEL PRICES TO END USERS*

	1978[1]	1980	1990	2000	2004	2005	2006	2007	2008
				(US dollars / tce)					
For electricity generation									
Steam coal	..	33.41	48.20	48.69	56.83	62.69	64.79	70.26	80.19
Heavy fuel oil	7.91	10.63	38.05	86.20	99.50	122.84	174.80	174.33	306.50
Natural gas	10.62	13.90	68.39	116.69	213.88	282.94	264.12	245.99	328.91
For industry									
Steam coal	x	x	x	x	x	x	x	x	x
Coking coal	..	..	..	..	..	..	..	..	..
High sulphur fuel oil	7.91	10.63	38.05	86.29	100.11	124.96	176.42	179.05	296.70
Low sulphur fuel oil	..	..	..	..	..	..	..	..	..
Natural gas	10.53	13.90	68.39	116.69	233.87	277.77	266.91	269.96	336.89
				(Mexican pesos / unit)[2]					
For electricity generation									
Steam coal	..	0.50	89.48	300.80	419.01	446.18	461.72	501.85	584.57
Heavy fuel oil	0.26	0.35	156.54	1180.30	1625.80	1937.60	2760.51	2759.54	4951.42
Natural gas	0.31	0.41	249.77	1418.28	3102.12	3961.39	3702.49	3456.47	4716.55
For industry									
Steam coal	x	x	x	x	x	x	x	x	x
Coking coal	..	..	..	..	..	..	..	..	..
High sulphur fuel oil	0.26	0.35	156.54	1181.46	1635.69	1970.92	2786.06	2834.26	4793.10
Low sulphur fuel oil	..	..	..	..	..	..	..	..	..
Natural gas	0.31	0.41	249.77	1418.28	3392.06	3889.13	3741.57	3793.16	4830.93

Source: *IEA/OECD Energy Prices & Taxes*

(1) Earliest year for which split by coal type is available.

(2) For steam coal, coking coal and heavy fuel oil per metric tonne; for natural gas per 10^7 kilocalories GCV.

* Please refer to notes in *Principles and Definitions*.

8. COAL TRADE BY TYPE OF COAL*

(Mtce)

	1973	1980	1990	2000	2004	2005	2006	2007	2008e
Total imports	**0.39**	**0.92**	**0.34**	**2.43**	**3.48**	**5.89**	**5.68**	**4.07**	**3.33**
Hard coal	0.25	0.81	0.22	1.85	3.00	5.53	5.38	3.82	3.03
Coking coal	*..*	*0.81*	*0.22*	-	-	-	-	-	-
Steam coal	*..*	-	-	*1.85*	*3.00*	*5.53*	*5.38*	*3.82*	*3.03*
Brown coal / lignite	-	-	-	0.00	0.00	0.00	0.00	0.00	0.00
Peat	-	-	-	-	-	-	-	-	-
Coal products[1]	0.14	0.12	0.11	0.57	0.48	0.35	0.29	0.25	0.30
Total exports	**-**	**0.08**	**0.01**	**0.01**	**0.00**	**0.01**	**0.01**	**0.01**	**0.00**
Hard coal	-	-	0.00	0.00	0.00	0.00	0.00	0.01	-
Coking coal	*..*	-	*0.00*	-	-	-	-	-	-
Steam coal	*..*	-	-	*0.00*	*0.00*	*0.00*	*0.00*	*0.01*	-
Brown coal / lignite	-	-	-	-	-	-	-	-	-
Peat	-	-	-	-	-	-	-	-	-
Coal products[1]	-	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Source: *IEA/OECD Energy Balances of OECD Countries, IEA/OECD Energy Statistics of OECD Countries*

(1) Coal products includes products derived from coal, for example: coke, coal tar, briquettes, patent fuels.

* Please refer to notes in *Principles and Definitions*.

Mexico

9. HARD COAL IMPORTS BY ORIGIN*

(thousand tonnes)

	1978[1]	1980	1990	2000	2004	2005	2006	2007	2008e
Hard Coal	**570**	**823**	**228**	**2432**	**4092**	**7262**	**7622**	**5459**	**4246**
Coking Coal	**570**	**823**	**228**	**-**	**-**	**-**	**-**	**-**	**-**
Australia	-	-	-	-	-	-	-	-	-
Canada	-	-	122	-	-	-	-	-	-
Czech Republic	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-
Poland	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-
United States	470	723	6	-	-	-	-	-	-
Other OECD	-	-	-	-	-	-	-	-	-
China, People's Rep.	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-
South Africa	-	-	-	-	-	-	-	-	-
Former USSR[2]	-	-	-	-	-	-	-	-	-
Russia[3]	-	-	-	-	-	-	-	-	-
Other Former USSR[3]	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-
Non-specified/other	100	100	100	-	-	-	-	-	-
Steam coal	**-**	**-**	**-**	**2432**	**4092**	**7262**	**7622**	**5459**	**4246**
Australia	-	-	-	1074	2055	5326	6379	4624	647
Canada	-	-	-	538	1033	579	511	279	323
Czech Republic	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-
Poland	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-
United States	-	-	-	697	942	1021	369	505	1192
Other OECD	-	-	-	-	-	222	140	-	-
China, People's Rep.	-	-	-	1	20	3	2	2	-
Colombia	-	-	-	-	9	111	193	49	830
Indonesia	-	-	-	-	-	-	-	-	131
South Africa	-	-	-	-	-	-	-	-	1123
Former USSR[2]	-	-	-	-	-	-	-	-	-
Russia[3]	-	-	-	*66*	-	-	-	-	-
Other Former USSR[3]	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	56	-	-	-	-	-
Vietnam	-	-	-	-	33	-	28	-	-
Non-specified/other	-	-	-	-	-	-	-	-	-

Source: IEA/OECD Coal Statistics

(1) Earliest year for which split by coal type is available.

(2) If no detail.

(3) Data for former republics are not available separately for some OECD member countries.

* Please refer to notes in *Principles and Definitions*.

Netherlands*

Chart 1: TPES by fuel (Mtce)

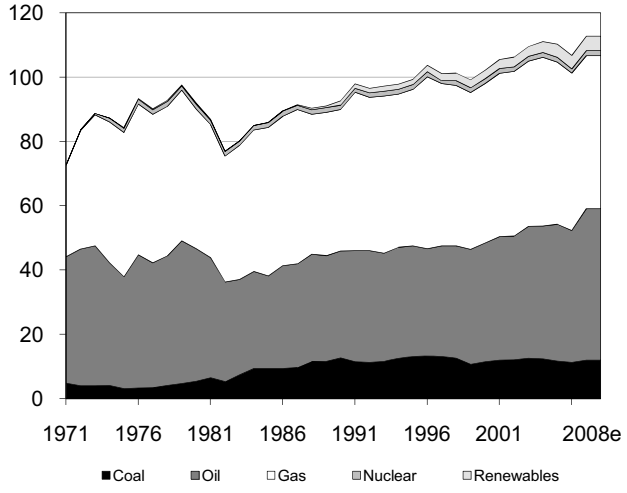


Chart 2: Coal supply indicators (1971 = 100)

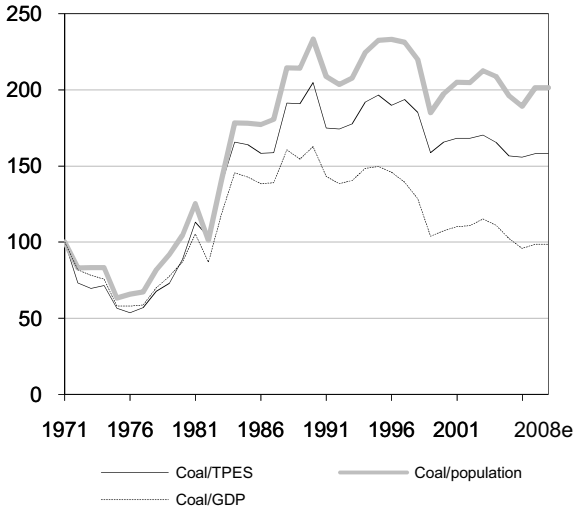


Chart 3: Primary coal supply (Mtce)

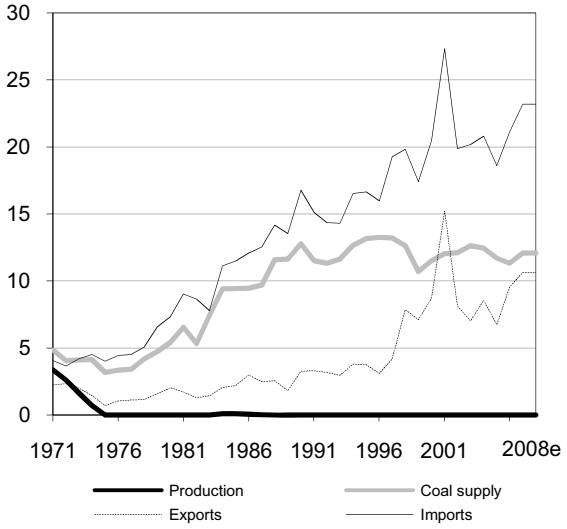


Chart 4: Coal consumption (Mtce)

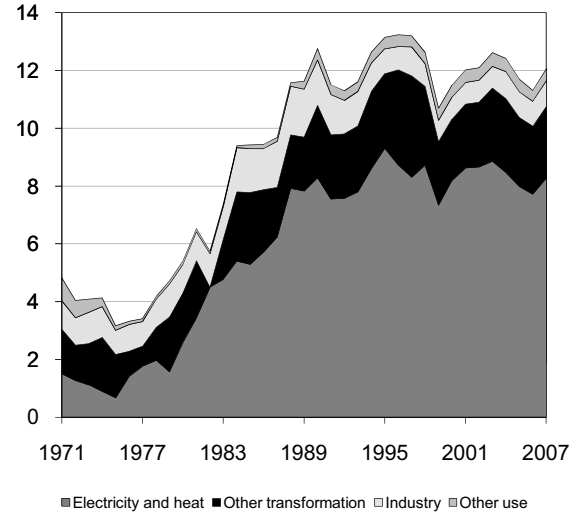


Chart 5: Electricity generation by fuel (TWh)

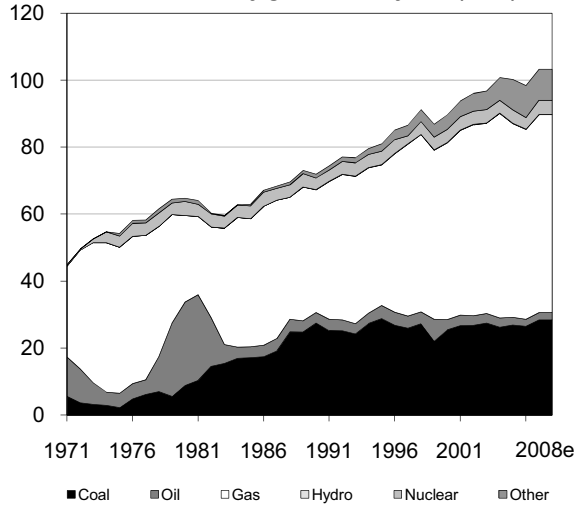
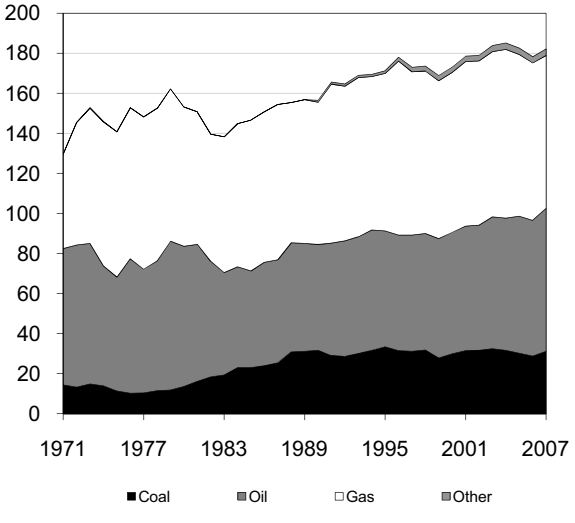


Chart 6: CO_2 emissions by fuel (Mt CO_2)



*Please refer to notes in *Principles and Definitions* . Peat is included in coal for all charts.

Netherlands

1. TOTAL PRIMARY ENERGY SUPPLY (TPES) BY FUEL*

	1973	1980	1990	2000	2006	2007	2008e	Average annual percent change 73-90	90-07
TPES (Mtce)	**88.57**	**91.95**	**93.82**	**104.50**	**109.44**	**114.89**	**113.74**	**0.34**	**1.20**
Coal and peat	4.10	5.42	12.76	11.50	11.32	12.07	11.44	6.91	-0.33
Oil	43.52	41.22	33.25	36.99	41.07	47.05	44.17	-1.57	2.06
Gas	40.71	43.46	44.00	49.57	48.93	47.59	49.48	0.46	0.46
Comb. renew/waste	-	0.32	1.34	2.48	3.80	3.97	4.57	-	6.57
Nuclear	0.41	1.56	1.30	1.46	1.29	1.56	1.55	7.00	1.07
Hydro	-	-	0.01	0.02	0.01	0.01	0.01	-	1.36
Geothermal	-	-	-	-	-	-	-	-	-
Solar, wind, tide	-	-	0.01	0.15	0.39	0.48	0.58	-	25.59
Net electricity trade(1)	-0.17	-0.04	1.13	2.32	2.64	2.16	1.93	-	3.88
Heat(2)	-	-	-	-	-	-	-	-	-

Source: *IEA/OECD Energy Balances of OECD Countries*

(1) Net trade between OECD and non-OECD countries.

(2) Ambient heat from heat pumps used in the transformation sector.

2. ENERGY SUPPLY, GDP AND POPULATION*

	1973	1980	1990	2000	2006	2007	2008e	Average annual percent change 73-90	90-07
GDP (2000 bil. US$)	188	224	282	385	425	440	449	2.41	2.65
TPES/GDP(1)	0.47	0.41	0.33	0.27	0.26	0.26	0.25	-2.02	-1.41
Population (millions)	13.4	14.1	14.9	15.9	16.3	16.4	16.5	0.63	0.54
TPES/population(1)	6.59	6.50	6.28	6.56	6.70	7.02	6.88	-0.29	0.66
TPES/GDP(2)	173.4	151.4	122.6	100.0	94.9	96.3	93.4	-2.02	-1.41
Coal and peat supply/GDP(2)	72.9	81.0	151.5	100.0	89.2	91.9	85.4	4.40	-2.90
Elec. consumption/GDP(2)	92.6	100.8	102.5	100.0	98.0	95.5	..	0.60	-0.41
Elec. generation (TWh)	53	65	72	90	98	103	108	1.86	2.15
Industrial production(2)	69.0	77.0	81.8	100.0	106.5	108.9	110.2	1.01	1.70

Source: *IEA/OECD Energy Balances of OECD Countries* , *OECD Main Economic Indicators*

(1) TPES/GDP in units of tce/2000 thousand US$, TPES/population in units of tce/capita.

(2) As index, 2000 = 100

3. COAL AND PEAT PRODUCTION BY TYPE*

	1978(1)	1980	1990	2000	2006	2007	2008e	Average annual percent change 78-90	90-07
Mtce:									
Coking coal	-	-	-	-	-	-	-	-	-
Steam coal	-	-	-	-	-	-	-	-	-
Brown coal	-	-	-	-	-	-	-	-	-
Peat	-	-	-	-	-	-	-	-	-
Mt:									
Coking coal	-	-	-	-	-	-	-	-	-
Steam coal	-	-	-	-	-	-	-	-	-
Brown coal	-	-	-	-	-	-	-	-	-
Peat	-	-	-	-	-	-	-	-	-

Source: *IEA/OECD Energy Balances of OECD Countries, IEA/OECD Energy Statistics of OECD Countries*

(1) Earliest year for which split by coal type is available.

* Please refer to notes in *Principles and Definitions* .

Netherlands

4. FINAL CONSUMPTION OF ENERGY BY FUEL*

(Mtce)

	1973	1980	1990	2000	2005	2006	2007	Average annual percent change 73-90	90-07
TFC[1]	**68.07**	**71.14**	**70.64**	**79.77**	**86.18**	**82.29**	**86.76**	**0.22**	**1.22**
Coal and peat	1.55	1.11	1.97	1.18	1.33	1.24	1.32	1.44	-2.34
Oil	33.52	28.34	25.82	29.70	35.31	32.65	38.33	-1.52	2.35
Gas	27.56	34.64	32.85	32.95	31.85	31.22	29.49	1.04	-0.63
Comb. renew/wastes	-	-	0.52	0.53	0.56	0.66	1.05	-	4.19
Geothermal	-	-	-	-	-	-	-	-	-
Solar, wind, tide	-	-	0.00	0.02	0.03	0.03	0.03	-	14.14
Electricity	5.45	7.05	9.03	12.03	12.84	13.02	13.13	3.02	2.22
Heat	-	-	0.44	3.36	4.26	3.46	3.41	-	12.84
of which:									
Total industry	**19.30**	**17.59**	**16.15**	**17.97**	**20.27**	**17.60**	**17.41**	**-1.04**	**0.44**
Coal and peat	1.09	0.99	1.58	0.77	0.89	0.86	0.91	2.21	-3.22
Oil	3.79	3.63	1.12	2.29	3.00	1.40	1.55	-6.90	1.91
Gas	11.63	9.52	9.30	8.20	8.21	7.90	7.68	-1.31	-1.12
Comb. renew/wastes	-	-	0.06	0.10	0.16	0.19	0.19	-	7.01
Geothermal	-	-	-	-	-	-	-	-	-
Solar, wind, tide	-	-	-	-	-	-	-	-	-
Electricity	2.79	3.45	4.08	4.99	5.11	5.11	5.20	2.26	1.43
Heat	-	-	-	1.62	2.90	2.14	1.89	-	-
Total transport	**9.33**	**10.85**	**12.70**	**15.67**	**16.45**	**17.09**	**17.30**	**1.83**	**1.84**
Coal and peat	-	-	-	-	-	-	-	-	-
Oil	9.22	10.73	12.54	15.47	16.25	16.84	16.66	1.82	1.69
Gas	-	-	-	-	-	0.00	0.00	-	-
Comb. renew/wastes	-	-	-	-	-	0.06	0.44	-	-
Electricity	0.11	0.12	0.16	0.20	0.20	0.20	0.19	2.09	1.25
Residential	**18.66**	**20.25**	**14.19**	**14.72**	**14.43**	**14.30**	**13.19**	**-1.60**	**-0.43**
Coal and peat	0.34	0.07	0.03	0.01	0.01	0.01	0.01	-12.77	-9.56
Oil	6.77	2.01	0.35	0.08	0.11	0.13	0.08	-16.03	-8.01
Gas	10.21	16.31	11.23	11.38	10.74	10.53	9.47	0.56	-0.99
Comb. renew/wastes	-	-	0.40	0.34	0.33	0.33	0.33	-	-1.19
Geothermal	-	-	-	-	-	-	-	-	-
Solar, wind, tide	-	-	0.00	0.01	0.02	0.02	0.03	-	20.46
Electricity	1.35	1.86	2.03	2.68	2.98	3.05	2.98	2.44	2.30
Heat	-	-	0.15	0.21	0.24	0.23	0.29	-	3.91
Comm & public services	**2.74**	**2.52**	**8.44**	**10.55**	**10.65**	**11.18**	**10.46**	**6.85**	**1.27**
Coal and peat	-	-	0.04	0.03	0.04	0.03	0.04	-	0.73
Oil	1.53	1.07	0.90	0.41	0.55	0.49	0.36	-3.07	-5.31
Gas	-	0.04	4.76	5.26	5.10	5.98	5.21	-	0.54
Comb. renew/waste	-	-	0.06	0.08	0.07	0.07	0.07	-	0.56
Geothermal	-	-	-	-	-	-	-	-	-
Solar, wind, tide	-	-	0.00	0.00	0.00	0.00	0.00	-	3.78
Electricity	1.20	1.41	2.54	3.72	3.85	3.83	3.86	4.50	2.50
Heat	-	-	0.14	1.04	1.04	0.78	0.92	-	11.91
Non-energy use	**10.80**	**12.36**	**14.03**	**14.67**	**18.62**	**16.48**	**22.00**	**1.55**	**2.68**
Coal and peat	-	-	0.32	0.37	0.39	0.34	0.36	-	0.82
Oil	10.80	9.87	10.47	10.72	14.71	13.09	18.50	-0.19	3.41
Gas	-	2.49	3.25	3.58	3.51	3.05	3.13	-	-0.22

Source: *IEA/OECD Energy Balances of OECD Countries*

(1) Total Final Consumption (TFC) excludes use in transformation and energy sectors.

* Please refer to notes in *Principles and Definitions*.

Netherlands

5. COAL BALANCE*

(Mtce)

	1973	1980	1990	2000	2006	2007	2008e	Average annual percent change 73-90	90-07
Production	1.6	-	-	-	-	-	-	-	-
Imports	4.2	7.3	16.8	20.5	21.1	23.2	17.0	8.5	1.9
Exports	-2.0	-2.0	-3.3	-8.7	-9.5	-10.6	-5.9	2.9	7.2
Stock changes	0.3	0.1	-0.7	-0.2	-0.3	-0.5	0.4	x	x
Primary supply	**4.1**	**5.4**	**12.8**	**11.5**	**11.3**	**12.1**	**11.4**	**6.9**	**-0.3**
Statistical difference	**0.1**	**0.1**	**-0.6**	**-0.1**	**-0.2**	**-**	**..**	**x**	**x**
Total transformation	**-1.8 e**	**-4.1 e**	**-9.9 e**	**-10.0 e**	**-9.6 e**	**-10.5 e**	**..**	**10.7**	**0.4**
Electricity and heat gen.	-1.1	-2.6	-8.3	-8.2	-7.7	-8.3	..	12.5	-0.0
Main activity producers (1)	*-1.1*	*-2.4*	*-8.2*	*-8.2*	*-7.7*	*-8.3*	*..*	*12.4*	*0.1*
Autoproducers	-	*-0.2*	*-0.1*	*-0.0*	*-0.0*	*-0.0*	*..*	-	*-12.3*
Gas works	-	-	-	-	-	-	..	-	-
Coal transformation(2)	-0.6 e	-1.6 e	-1.6 e	-1.8 e	-1.9 e	-2.2 e	..	5.4	2.0
BKB plants	-	-	-	-	-	-	*..*	-	-
Blast furnaces	*-0.8 e*	*-1.2 e*	*-1.5 e*	*-1.6 e*	*-1.7 e*	*-2.0 e*	*..*	*3.3*	*1.9*
Coke ovens	*0.2*	*-0.4*	*-0.1*	*-0.2*	*-0.2*	*-0.2*	*..*	-	*3.4*
Patent fuel plants	*0.0*	-	-	-	-	-	*..*	-	-
Other transformation(3)	-	-	-	-	-	-	..	-	-
Own use	**-0.9**	**-0.3**	**-0.3**	**-0.3**	**-0.3**	**-0.3**	**..**	**-5.5**	**-1.2**
Distribution losses	**-0.1**	**-**	**-**	**-**	**-**	**-**	**..**	**x**	**x**
Final consumption(4)	**1.5**	**1.1**	**2.0**	**1.2**	**1.2**	**1.3**	**..**	**1.4**	**-2.3**
Industry sector(5)	1.1	1.0	1.6	0.8	0.9	0.9	..	2.2	-3.2
Iron and steel	*0.7*	*0.6*	*0.9 e*	*0.6*	*0.8 e*	*0.8 e*	*..*	*1.6*	*-0.8*
Chemical	*0.2*	*0.2*	*0.4*	*0.1*	-	-	*..*	*2.8*	-
Non-metallic minerals	*0.0*	*0.2*	*0.1*	*0.1*	*0.0*	*0.1*	*..*	*10.5*	*-2.9*
Paper, pulp and print	-	-	*0.0*	-	-	-	*..*	-	-
Transport sector(6)	-	-	-	-	-	-	..	-	-
Other sectors(7)	0.5	0.1	0.1	0.0	0.0	0.0	..	-10.1	-2.5
Comm. and pub. services	-	-	*0.0*	*0.0*	*0.0*	*0.0*	*..*	-	*0.7*
Residential	*0.3*	*0.1*	*0.0*	*0.0*	*0.0*	*0.0*	*..*	*-12.8*	*-9.6*
Non-energy use	-	-	0.3	0.4	0.3	0.4	..	-	0.8

Source: *IEA/OECD Energy Balances of OECD Countries*

(1) Main activity electricity and heat generation includes district heating.

(2) Coal transformation refers to the transformation of coal and peat to secondary and tertiary products (mainly coke, briquettes, coke oven gas and blast furnace gas).

(3) Other transformation includes liquefaction and non-specified transformation.

(4) Final Consumption includes non-energy use and energy use (industry, transport and other sectors).

(5) Please refer to notes in *Principles and Definitions* for detailed explanation.

(6) Transport sector includes rail and inland waterways.

(7) Other sectors includes commercial and public services, agriculture, and residential.

* "Coal" refers to all types of coal, primary (anthracite, coking coal, other bituminous coal, sub-bituminous coal, lignite/brown coal, peat) and derived fuels (including patent fuel, BKB/peat briquettes, coke oven coke, gas coke, coal tar, coke oven gas, gas works gas, blast furnace gas and oxygen steel furnace gas). Quantities have been converted to Mtce using calorific values reported by the respective countries. Please refer to notes in *Principles and Definitions*.

Netherlands

6. USE OF COAL FOR SELECTED END-USES*

(million tonnes)

	1978	1980	1990	2000	2005	2006	2007	Average annual percent change 78-90	90-07
Steam coal	**1.85**	**2.45**	**9.64**	**8.88**	**8.31**	**8.26**	**8.74**	**14.74**	**-0.57**
Total electricity and heat	1.70	2.40	8.72	8.59	8.27	8.23	8.68	14.59	-0.03
Main activity producers	*1.59*	*2.26*	*8.69*	*8.59*	*8.27*	*8.23*	*8.68*	*15.21*	*-0.01*
Autoproducers	*0.11*	*0.14*	*0.03*	-	-	-	-	*-9.75*	-
Patent fuel/BKB plants	-	-	-	-	-	-	-	-	-
Coke ovens	-	-	-	-	-	-	-	-	-
Blast furnace inputs	0.01	0.01	-	-	-	-	-	-	-
Gas manufacture	-	-	-	-	-	-	-	-	-
Industry sector	0.06	0.07	0.48	0.11	0.01	0.00	0.04	19.17	-14.17
Iron and steel	-	-	-	*0.01*	*0.01*	-	-	-	-
Chemical	*0.05*	*0.06*	*0.36*	*0.05*	-	-	-	*17.55*	-
Non-metallic minerals	-	-	*0.03*	*0.02*	*0.00*	*0.00*	*0.00*	-	*-18.59*
Paper, pulp and print	-	-	*0.00*	-	-	-	-	-	-
Other industry	*0.01*	*0.01*	*0.09*	*0.04*	*0.01*	*0.00*	*0.04*	*22.79*	*-5.65*
Res, comm & pub serv[1]	0.07	0.07	0.06	0.03	0.03	0.03	0.03	-0.98	-4.17
Non-energy use	-	-	0.01	0.01	-	-	-	-	-
Coking coal	**2.95**	**3.52**	**4.39**	**4.05**	**4.70**	**4.39**	**4.70**	**3.36**	**0.40**
Total electricity and heat	-	-	-	-	-	-	-	-	-
Main activity producers	-	-	-	-	-	-	-	-	-
Autoproducers	-	-	-	-	-	-	-	-	-
Patent fuel/BKB plants	-	-	-	-	-	-	-	-	-
Coke ovens	3.28	3.67	3.85	3.01	3.16	3.05	3.11	1.33	-1.25
Blast furnace inputs	-	-	0.62	1.05	1.47	1.29	1.56	-	5.58
Gas manufacture	-	-	-	-	-	-	-	-	-
Industry sector	-	-	0.06	-	0.07	0.05	0.03	-	-3.38
Iron and steel	-	-	*0.06*	-	*0.05*	*0.04*	*0.03*	-	*-3.38*
Chemical	-	-	-	-	-	-	-	-	-
Non-metallic minerals	-	-	-	-	-	-	-	-	-
Paper, pulp and print	-	-	-	-	-	-	-	-	-
Other industry	-	-	-	-	*0.02*	*0.02*	-	-	-
Res, comm & pub serv[1]	-	-	-	-	-	-	-	-	-
Non-energy use	-	-	-	0.00	0.00	0.00	0.00	-	-
Brown coal/lignite	**0.07**	**0.16**	**0.07**	**0.04**	**0.05**	**0.04**	**0.06**	**0.12**	**-1.02**
Total electricity and heat	-	-	-	-	-	-	-	-	-
Main activity producers	-	-	-	-	-	-	-	-	-
Autoproducers	-	-	-	-	-	-	-	-	-
Patent fuel/BKB plants	-	-	-	-	-	-	-	-	-
Coke ovens	-	-	-	-	-	-	-	-	-
Gas manufacture	-	-	-	-	-	-	-	-	-
Industry sector	0.07	0.15	0.06	0.03	0.03	0.01	0.03	-0.95	-3.26
Iron and steel	-	-	-	-	-	-	-	-	-
Chemical	-	-	-	-	-	-	-	-	-
Non-metallic minerals	*0.07*	*0.15*	*0.06*	*0.03*	*0.02*	*0.01*	*0.03*	*-1.23*	*-4.41*
Paper, pulp and print	-	-	-	-	-	-	-	-	-
Other industry	-	-	*0.00*	*0.00*	*0.00*	*0.01*	*0.01*	-	*7.65*
Res, comm & pub serv[1]	-	-	0.01	0.02	0.02	0.02	0.03	-	8.76
Non-energy use	-	-	-	-	-	-	-	-	-

Source: *IEA/OECD Energy Statistics of OECD Countries*

(1) Residential, commercial and public services.

* Please refer to notes in *Principles and Definitions* .

Netherlands

7. FUEL PRICES TO END USERS*

	1978[1]	1980	1990	2000	2004	2005	2006	2007	2008
				(US dollars / tce)					
For electricity generation									
Steam coal	40.99	63.99	71.37	..	..	..	..	..	..
Heavy fuel oil	65.34	138.04	..	..	..	..	..	..	..
Natural gas	61.49	126.93	103.23	..	..	..	..	..	..
For industry									
Steam coal	57.76	62.94	62.74	..	..	..	..	..	..
Coking coal	105.55	131.85	154.34	..	..	..	..	..	..
High sulphur fuel oil	71.09	133.96	131.18	x	x	x	x	x	x
Low sulphur fuel oil	..	..	..	156.50	199.49	255.43	295.94	323.99	416.14
Natural gas	68.25	113.74	97.42	129.53	..	..	..	..	..
				(Euro / unit)[2]					
For electricity generation									
Steam coal	40.25	57.72	58.95	..	..	..	..	..	..
Heavy fuel oil	89.46	173.60	..	..	..	..	..	..	..
Natural gas	77.63	147.20	109.63	..	..	..	..	..	..
For industry									
Steam coal	56.72	56.77	51.82	..	..	..	..	..	..
Coking coal	100.69	115.53	123.84	..	..	..	..	..	..
High sulphur fuel oil	97.33	168.47	151.08	x	x	x	x	x	x
Low sulphur fuel oil	..	..	..	236.75	223.91	286.69	328.86	329.76	396.87
Natural gas	86.17	131.91	103.46	180.69	..	..	..	..	..

Source: *IEA/OECD Energy Prices & Taxes*

(1) Earliest year for which split by coal type is available.

(2) For steam coal, coking coal and heavy fuel oil per metric tonne; for natural gas per 10^7 kilocalories GCV.

* Please refer to notes in *Principles and Definitions*.

8. COAL TRADE BY TYPE OF COAL*

(Mtce)

	1973	1980	1990	2000	2004	2005	2006	2007	2008e
Total imports	**4.20**	**7.32**	**16.78**	**20.46**	**20.81**	**18.61**	**21.13**	**23.20**	**16.96**
Hard coal	3.52	6.38	16.19	19.60	20.32	18.12	20.46	22.58	16.71
Coking coal	*..*	*3.15*	*4.51*	*4.76*	*4.88*	*4.88*	*4.46*	*4.27*	*4.27*
Steam coal	*..*	*3.23*	*11.68*	*14.84*	*15.44*	*13.24*	*16.00*	*18.31*	*12.43*
Brown coal / lignite	0.01	0.11	0.05	0.03	0.03	0.03	0.03	0.04	0.03
Peat	-	-	-	-	-	-	-	-	-
Coal products[1]	0.66	0.84	0.54	0.83	0.46	0.46	0.64	0.58	0.22
Total exports	**1.99**	**2.02**	**3.26**	**8.71**	**8.55**	**6.73**	**9.55**	**10.62**	**5.88**
Hard coal	1.07	1.33	2.31	7.89	8.20	6.37	8.63	10.04	5.51
Coking coal	*..*	*0.04*	*-*	*0.92*	*0.39*	*0.23*	*0.04*	*-*	*0.02*
Steam coal	*..*	*1.30*	*2.31*	*6.97*	*7.81*	*6.14*	*8.59*	*10.04*	*5.49*
Brown coal / lignite	-	-	0.00	0.00	-	-	-	-	-
Peat	-	-	-	-	-	-	-	-	-
Coal products[1]	0.93	0.68	0.95	0.82	0.35	0.36	0.92	0.58	0.37

Source: *IEA/OECD Energy Balances of OECD Countries, IEA/OECD Energy Statistics of OECD Countries*

(1) Coal products includes products derived from coal, for example: coke, coal tar, briquettes, patent fuels.

* Please refer to notes in *Principles and Definitions*.

Netherlands

9. HARD COAL IMPORTS BY ORIGIN*

(thousand tonnes)

	1978[1]	1980	1990	2000	2004	2005	2006	2007	2008e
Hard Coal	**5038**	**7156**	**17440**	**22295**	**22603**	**20415**	**22844**	**26035**	**19083**
Coking Coal	**2853**	**3399**	**4603**	**4864**	**4988**	**4987**	**4558**	**4366**	**4369**
Australia	961	382	449	1903	655	1346	1437	1097	579
Canada	-	-	426	366	1500	902	607	610	584
Czech Republic	89	114	-	-	-	-	-	-	-
Germany	782	670	462	-	1	-	1	-	-
Poland	376	482	98	319	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-
United States	644	1749	3110	1620	1417	1364	1274	1237	1739
Other OECD	1	1	4	1	73	99	-	11	71
China, People's Rep.	-	-	1	-	-	-	-	-	-
Colombia	-	-	6	10	91	-	-	-	-
Indonesia	-	-	46	441	-	-	-	-	-
South Africa	-	-	1	-	11	-	-	-	-
Former USSR[2]	-	-	-	-	-	-	-	-	-
Russia[3]	-	-	-	-	*296*	*359*	*384*	*326*	*248*
Other Former USSR[3]	-	-	-	-	-	*204*	-	*26*	*17*
Venezuela	-	-	-	204	943	713	815	1059	1023
Vietnam	-	-	-	-	-	-	40	-	20
Non-specified/other	-	1	-	-	1	-	-	-	88
Steam coal	**2185**	**3757**	**12837**	**17431**	**17615**	**15428**	**18286**	**21669**	**14714**
Australia	529	792	5176	1110	745	439	390	660	256
Canada	55	-	-	-	-	-	2	169	-
Czech Republic	62	68	-	-	140	-	-	-	-
Germany	703	706	72	19	177	43	29	21	91
Poland	264	460	1043	1246	180	97	237	136	96
United Kingdom	166	156	-	9	1	68	16	-	61
United States	14	1053	3023	1242	406	290	163	1087	1389
Other OECD	10	63	237	365	167	239	210	1052	742
China, People's Rep.	-	-	152	271	143	83	62	48	155
Colombia	-	-	1514	4795	4424	5703	5923	7500	5634
Indonesia	-	-	133	2644	1784	992	3152	1866	1186
South Africa	309	459	1436	5269	8305	6084	6430	6838	4418
Former USSR[2]	57	-	-	-	-	-	-	-	-
Russia[3]	-	-	*32*	*174*	*973*	*1250*	*1419*	*2081*	*645*
Other Former USSR[3]	-	-	-	-	-	*33*	*141*	*108*	*41*
Venezuela	-	-	19	90	-	-	-	103	-
Vietnam	-	-	-	158	1	-	92	-	-
Non-specified/other	16	-	-	39	169	107	20	-	-

Source: IEA/OECD Coal Statistics

(1) Earliest year for which split by coal type is available.

(2) If no detail.

(3) Data for former republics are not available separately for some OECD member countries.

* Please refer to notes in *Principles and Definitions*.

Netherlands

10. COKING COAL EXPORTS BY DESTINATION*

(thousand tonnes)

	1978[1]	1980	1990	2000	2004	2005	2006	2007	2008e
Total Exports	**13**	**39**	**-**	**938**	**395**	**236**	**45**	**-**	**23**
Exports to:									
Total OECD	**13**	**39**	**-**	**938**	**393**	**236**	**27**	**-**	**23**
Australia	-	-	-	-	-	-	-	-	-
Austria	-	-	-	-	-	-	-	-	-
Belgium	13	9	-	-	103	-	4	-	-
Canada	-	-	-	-	-	-	-	-	-
Czech Republic	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-
Finland	-	27	-	-	-	-	-	-	-
France	-	-	-	10	7	-	-	-	23
Germany	-	-	-	928	195	236	23	-	-
Greece	-	-	-	-	-	-	-	-	-
Hungary	-	-	-	-	-	-	-	-	-
Iceland	-	-	-	-	-	-	-	-	-
Ireland	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-
Japan	-	-	-	-	-	-	-	-	-
Korea	-	-	-	-	-	-	-	-	-
Luxembourg	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-
New Zealand	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-
Poland	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-
Slovak Republic	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-
Switzerland	-	-	-	-	-	-	-	-	-
Turkey	-	-	-	-	-	-	-	-	-
United Kingdom	-	3	-	-	88	-	-	-	-
United States	-	-	-	-	-	-	-	-	-
Total Non-OECD	**-**	**-**	**-**	**-**	**-**	**-**	**18**	**-**	**-**
Brazil	-	-	-	-	-	-	-	-	-
Chinese Taipei	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-
Hong Kong, China	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-
Israel	-	-	-	-	-	-	-	-	-
Romania	-	-	-	-	-	-	-	-	-
Oth. Africa & Mid. East	-	-	-	-	-	-	-	-	-
Other Latin America	-	-	-	-	-	-	-	-	-
Other Asia & Oceania	-	-	-	-	-	-	-	-	-
Other Europe and FSU	-	-	-	-	-	-	18	-	-
Non-Specified/Other	**-**	**-**	**-**	**-**	**2**	**-**	**-**	**-**	**-**

Source: IEA/OECD Coal Statistics

(1) Earliest year for which split by coal type is available.

* Please refer to notes in *Principles and Definitions*.

Netherlands

11. STEAM COAL EXPORTS BY DESTINATION*

(thousand tonnes)

	1978[1]	1980	1990	2000	2004	2005	2006	2007	2008e
Total Exports	**475**	**1508**	**2512**	**8184**	**8897**	**7138**	**9813**	**11882**	**6486**
Exports to:									
Total OECD	**475**	**1493**	**2448**	**8158**	**8781**	**7114**	**9703**	**11837**	**6385**
Australia	-	-	-	-	-	-	-	-	-
Austria	-	-	-	1	72	4	1	-	-
Belgium	231	575	469	149	117	38	36	59	79
Canada	-	-	-	-	-	18	41	27	-
Czech Republic	-	-	-	-	-	-	-	-	-
Denmark	-	59	2	-	28	67	95	138	147
Finland	-	146	2	-	-	309	7	-	-
France	9	87	261	316	1406	1291	1532	937	1248
Germany	228	409	1410	7041	6406	4599	7315	9770	4113
Greece	-	-	-	-	-	71	60	67	-
Hungary	-	-	-	-	-	60	48	15	-
Iceland	-	-	-	-	-	33	45	65	50
Ireland	-	-	48	-	3	-	9	6	3
Italy	-	1	-	3	-	-	-	-	20
Japan	-	-	-	-	-	-	-	-	-
Korea	-	-	-	-	-	-	-	-	-
Luxembourg	-	-	-	53	-	1	7	50	56
Mexico	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-
New Zealand	-	-	-	-	-	-	-	-	-
Norway	-	-	7	309	228	172	165	146	165
Poland	-	-	-	-	-	6	14	13	157
Portugal	-	4	3	-	-	-	-	-	-
Slovak Republic	-	-	-	-	-	-	-	-	-
Spain	-	-	26	19	49	17	39	16	15
Sweden	-	24	-	-	-	13	11	8	21
Switzerland	5	121	7	-	-	-	-	-	-
Turkey	-	-	-	-	-	-	-	-	-
United Kingdom	2	67	213	267	472	415	278	520	311
United States	-	-	-	-	-	-	-	-	-
Total Non-OECD	**-**	**5**	**64**	**-**	**-**	**24**	**110**	**45**	**101**
Brazil	-	-	-	-	-	-	-	-	5
Chinese Taipei	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	3	16	15	11
Hong Kong, China	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-
Israel	-	-	-	-	-	-	-	-	-
Romania	-	-	-	-	-	-	-	-	-
Oth. Africa & Mid. East	-	5	61	-	-	-	-	3	15
Other Latin America	-	-	-	-	-	-	13	-	25
Other Asia & Oceania	-	-	3	-	-	-	-	1	-
Other Europe and FSU	-	-	-	-	-	21	81	26	45
Non-Specified/Other	**-**	**10**	**-**	**26**	**116**	**-**	**-**	**-**	**-**

Source: IEA/OECD Coal Statistics

(1) Earliest year for which split by coal type is available.

* Please refer to notes in *Principles and Definitions*.

Netherlands

12. COAL IMPORT VALUES BY ORIGIN*

(average unit value, CIF, US$/tonne)

	1988	1990	1995	2003	2004	2005	2006	2007	2008
Coking coal[1]	**62.90**	**60.87**	**53.77**	**63.00**	**78.99**	**104.06**	**125.70**	**125.84**	**187.06**
Imports from:									
Australia	61.99	60.19	56.87	64.81	86.94	101.15	126.33	127.31	191.72
Canada	46.53	59.41	54.78	61.32	76.24	100.14	143.55	131.67	220.98
Czech Republic	..	..	..	..	..	..	..	..	..
Poland	50.54	60.71	55.46	..	..	..	..	..	..
United States	57.37	51.33	57.65	68.56	86.30	108.36	127.21	128.72	159.55
China	..	46.96	39.24	129.95	..	352.78	127.00	269.39	242.43
Colombia	..	50.24	..	..	76.73	130.59	..	..	..
South Africa	41.29	47.62	..	48.99	..	..	..	..	..
Former USSR[2]	50.79	..	33.59	64.70	68.97	95.25	88.14	91.41	155.18
Steam coal[3]	**39.52**	**52.25**	**43.89**	**37.27**	**55.09**	**68.86**	**68.57**	**79.12**	**133.50**
Imports from:									
Australia	39.88	52.28	42.39	45.99	70.15	106.55	108.34	102.57	147.93
Canada	..	..	..	90.34	103.25	144.61	145.81	94.31	139.51
Czech Republic	63.86	..	..	..	..	..	..	..	..
Poland	43.19	55.66	46.60	37.89	70.15	304.89	61.40	75.83	161.93
United States	43.36	54.91	49.37	35.34	53.90	76.01	100.13	88.56	141.08
China	38.66	51.46	42.61	38.27	62.91	77.09	..	..	..
Colombia	37.43	51.72	40.75	34.28	54.89	65.86	62.25	78.24	136.04
South Africa	36.10	43.71	41.63	36.35	52.22	65.31	64.04	75.31	130.98
Former USSR[2]	37.78	47.99	58.39	40.39	74.07	67.64	76.60	79.08	116.75

Source: IEA/OECD Coal Statistics

Note: On occasion, shipment of extremely small quantities of high valued coal results in high import costs.

(1) Weighted average of individual countries using import volumes as weights. Prices exclude intra-EU trade.

(2) Former USSR until 1991, Russia starting in 1992.

(3) Bituminous steam coal only. Weighted average of individual countries using volumes as weights. Prices exclude intra-EU trade.

* Please refer to notes in *Principles and Definitions*.

New Zealand*

Chart 1: TPES by fuel (Mtce)

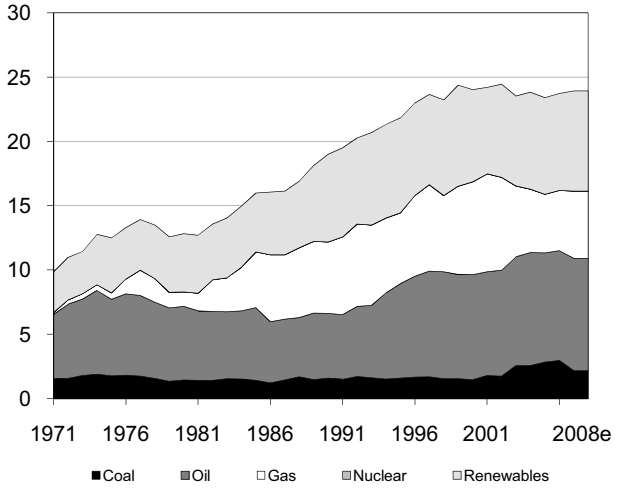


Chart 2: Coal supply indicators (1971 = 100)

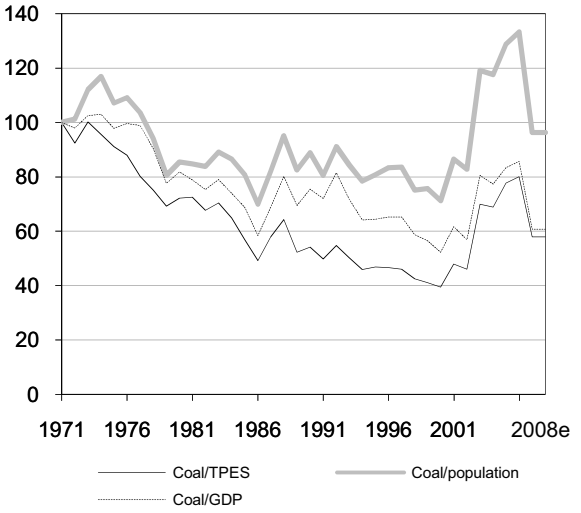


Chart 3: Primary coal supply (Mtce)

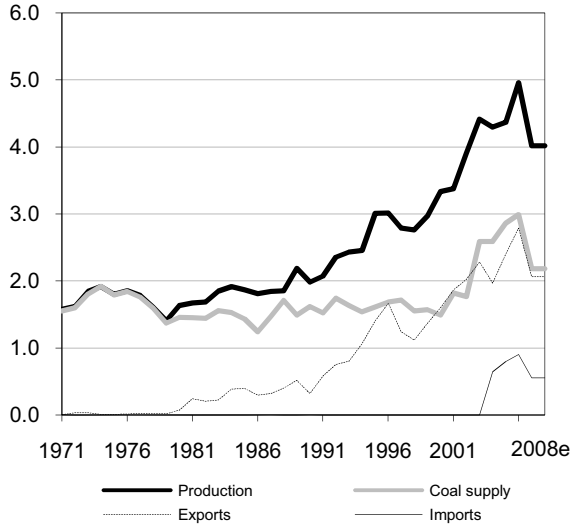


Chart 4: Coal consumption (Mtce)

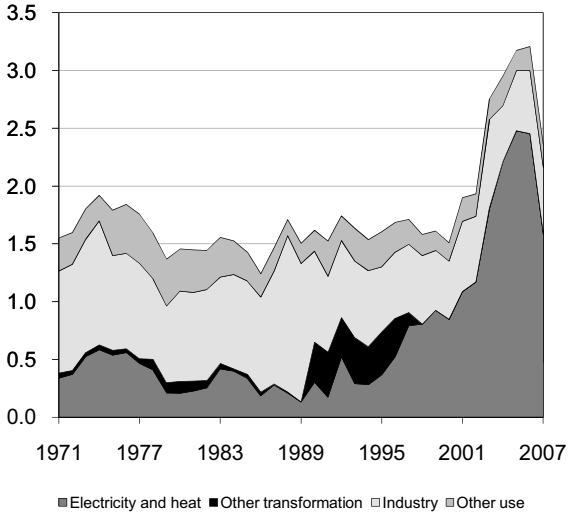


Chart 5: Electricity generation by fuel (TWh)

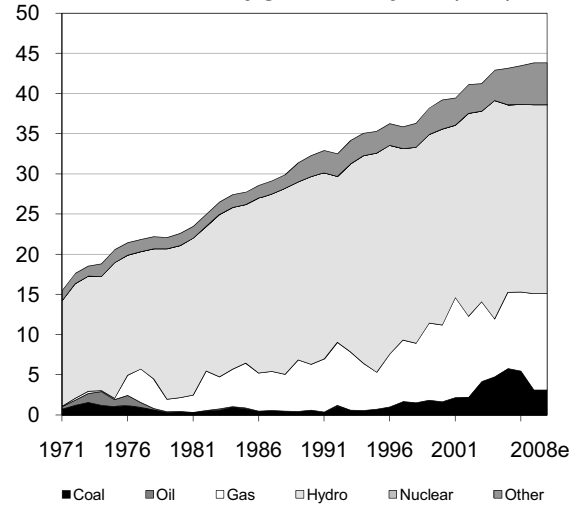
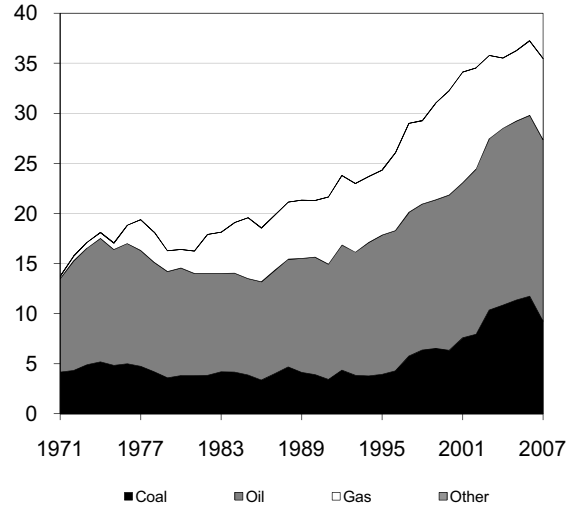


Chart 6: CO_2 emissions by fuel (Mt CO_2)



*Please refer to notes in *Principles and Definitions* . Peat is included in coal for all charts.

New Zealand

1. TOTAL PRIMARY ENERGY SUPPLY (TPES) BY FUEL*

	1973	1980	1990	2000	2006	2007	2008e	Average annual percent change 73-90	90-07
TPES (Mtce)	**11.46**	**12.84**	**19.01**	**24.03**	**23.75**	**23.96**	**24.56**	**3.02**	**1.37**
Coal and peat	1.80	1.46	1.62	1.49	2.99	2.18	2.54	-0.64	1.78
Oil	5.96	5.73	5.02	8.15	8.53	8.75	8.76	-1.01	3.32
Gas	0.40	1.13	5.57	7.22	4.68	5.21	4.91	16.69	-0.38
Comb. renew/waste	-	0.74	0.78	1.23	1.54	1.58	1.48	-	4.24
Nuclear	-	-	-	-	-	-	-	-	-
Hydro	1.76	2.33	2.87	3.00	2.87	2.89	2.74	2.92	0.04
Geothermal	1.53	1.46	3.16	2.92	3.04	3.20	3.98	4.37	0.08
Solar, wind, tide	-	-	-	0.01	0.09	0.13	0.14	-	-
Net electricity trade(1)	-	-	-	-	-	-	-	-	-
Heat(2)	-	-	-	-	0.02	0.02	0.02	-	-

Source: *IEA/OECD Energy Balances of OECD Countries*

(1) Net trade between OECD and non-OECD countries.

(2) Ambient heat from heat pumps used in the transformation sector.

2. ENERGY SUPPLY, GDP AND POPULATION*

	1973	1980	1990	2000	2006	2007	2008e	Average annual percent change 73-90	90-07
GDP (2000 bil. US$)	33	33	40	53	64	66	66	1.17	3.08
TPES/GDP(1)	0.35	0.39	0.48	0.46	0.37	0.36	0.37	1.83	-1.66
Population (millions)	3.0	3.1	3.4	3.9	4.1	4.2	4.2	0.73	1.30
TPES/population(1)	3.86	4.08	5.65	6.23	5.73	5.73	5.84	2.28	0.07
TPES/GDP(2)	77.2	85.5	105.1	100.0	80.7	79.1	81.5	1.83	-1.66
Coal and peat supply/GDP(2)	196.4	156.6	144.4	100.0	164.0	116.3	135.9	-1.79	-1.27
Elec. consumption/GDP(2)	76.7	92.8	109.7	100.0	93.2	91.4	..	2.13	-1.07
Elec. generation (TWh)	19	23	32	39	43	44	44	3.32	1.82
Industrial production(2)	..	..	82.9	100.0	109.9	112.3	111.3	-	1.80

Source: *IEA/OECD Energy Balances of OECD Countries* , *OECD Main Economic Indicators*

(1) TPES/GDP in units of tce/2000 thousand US$, TPES/population in units of tce/capita.

(2) As index, 2000 = 100

3. COAL AND PEAT PRODUCTION BY TYPE*

	1978(1)	1980	1990	2000	2006	2007	2008e	Average annual percent change 78-90	90-07
Mtce:									
Coking coal	0.01	0.18	0.55	1.72	2.84	1.97	2.42	38.38	7.78
Steam coal	1.53	1.36	1.35	1.51	2.00	1.92	1.68	-1.01	2.07
Brown coal	0.07	0.10	0.08	0.10	0.12	0.13	0.12	0.89	2.94
Peat	-	-	-	-	-	-	-	-	-
Mt:									
Coking coal	0.01	0.17	0.58	1.64	2.77	1.92	2.35	39.12	7.33
Steam coal	2.01	1.76	1.85	2.00	2.75	2.65	2.30	-0.70	2.15
Brown coal	0.15	0.21	0.16	0.21	0.25	0.26	0.25	0.54	2.86
Peat	-	-	-	-	-	-	-	-	-

Source: *IEA/OECD Energy Balances of OECD Countries, IEA/OECD Energy Statistics of OECD Countries*

(1) Earliest year for which split by coal type is available.

* Please refer to notes in *Principles and Definitions* .

New Zealand

4. FINAL CONSUMPTION OF ENERGY BY FUEL*

(Mtce)

	1973	1980	1990	2000	2005	2006	2007	Average annual percent change 73-90	90-07
TFC[1]	**8.39**	**9.87**	**12.90**	**17.97**	**17.27**	**17.60**	**17.76**	**2.56**	**1.90**
Coal and peat	1.24	1.15	0.97	0.66	0.69	0.75	0.76	-1.46	-1.39
Oil	4.99	5.17	5.63	7.44	8.50	8.58	8.62	0.72	2.54
Gas	0.20	0.52	1.85	4.42	1.85	2.01	2.05	13.84	0.60
Comb. renew/wastes	-	0.63	0.64	0.99	1.21	1.19	1.22	-	3.83
Geothermal	-	-	0.39	0.32	0.33	0.33	0.33	-	-0.89
Solar, wind, tide	-	-	-	-	0.01	0.01	0.01	-	-
Electricity	1.96	2.40	3.41	4.13	4.68	4.72	4.76	3.33	1.98
Heat	-	-	-	-	-	-	-	-	-
of which:									
Total industry	**2.81**	**3.44**	**4.17**	**4.30**	**4.70**	**4.86**	**5.06**	**2.36**	**1.14**
Coal and peat	0.98	0.78	0.79	0.50	0.52	0.55	0.57	-1.28	-1.85
Oil	1.06	0.87	0.39	0.45	0.52	0.54	0.61	-5.72	2.67
Gas	0.07	0.38	0.76	0.71	0.76	0.87	0.95	14.70	1.30
Comb. renew/wastes	-	0.46	0.55	0.71	0.93	0.92	0.94	-	3.21
Geothermal	-	-	0.31	0.19	0.19	0.20	0.20	-	-2.65
Solar, wind, tide	-	-	-	-	-	-	-	-	-
Electricity	0.69	0.94	1.37	1.73	1.77	1.78	1.79	4.12	1.57
Heat	-	-	-	-	-	-	-	-	-
Total transport	**2.77**	**3.27**	**4.23**	**5.98**	**6.95**	**7.05**	**7.09**	**2.51**	**3.09**
Coal and peat	-	0.00	-	-	-	-	-	-	-
Oil	2.77	3.26	4.14	5.92	6.89	7.00	7.04	2.40	3.17
Gas	-	0.01	0.08	0.00	0.01	0.01	0.01	-	-13.01
Comb. renew/wastes	-	-	-	-	-	-	-	-	-
Electricity	0.00	0.00	0.01	0.05	0.06	0.04	0.05	2.67	11.15
Residential	**1.29**	**1.45**	**1.60**	**1.98**	**2.10**	**2.12**	**2.13**	**1.29**	**1.70**
Coal and peat	0.22	0.19	0.05	0.03	0.03	0.02	0.02	-8.17	-6.34
Oil	0.11	0.04	0.02	0.06	0.07	0.08	0.09	-10.85	10.69
Gas	0.04	0.06	0.11	0.22	0.20	0.21	0.17	5.92	2.83
Comb. renew/wastes	-	0.17 e	0.09 e	0.28	0.27	0.27	0.27	-	6.56
Geothermal	-	-	0.08	0.00	0.00	0.00	0.00	-	-16.63
Solar, wind, tide	-	-	-	-	0.01	0.01	0.01	-	-
Electricity	0.91	0.99	1.26	1.39	1.52	1.52	1.57	1.91	1.32
Heat	-	-	-	-	-	-	-	-	-
Comm & public services	**0.73**	**1.01**	**1.15**	**1.61**	**1.63**	**1.59**	**1.64**	**2.70**	**2.10**
Coal and peat	-	0.17	0.08	0.11	0.11	0.12	0.13	-	2.40
Oil	0.34	0.36	0.23	0.14	0.17	0.12	0.13	-2.28	-3.20
Gas	0.09	0.07	0.15	0.44	0.22	0.15	0.14	3.05	-0.40
Comb. renew/waste	-	0.00	0.00	0.01	0.01	0.01	0.01	-	11.81
Geothermal	-	-	-	0.13	0.13	0.13	0.13	-	-
Solar, wind, tide	-	-	-	-	-	-	-	-	-
Electricity	0.30	0.41	0.69	0.80	0.99	1.05	1.10	4.95	2.81
Heat	-	-	-	-	-	-	-	-	-
Non-energy use	**0.34**	**0.31**	**1.20**	**3.46**	**1.02**	**1.16**	**1.14**	**7.63**	**-0.34**
Coal and peat	-	-	-	-	-	-	-	-	-
Oil	0.34	0.31	0.45	0.44	0.41	0.45	0.41	1.61	-0.59
Gas	-	-	0.75	3.03	0.61	0.71	0.73	-	-0.19

Source: *IEA/OECD Energy Balances of OECD Countries*

(1) Total Final Consumption (TFC) excludes use in transformation and energy sectors.

* Please refer to notes in *Principles and Definitions*.

New Zealand

5. COAL BALANCE*

(Mtce)

	1973	1980	1990	2000	2006	2007	2008e	Average annual percent change 73-90	90-07
Production	1.8	1.6	2.0	3.3	5.0	4.0	4.2	0.4	4.2
Imports	-	-	0.0	-	0.9	0.6	0.5	-	29.6
Exports	-0.0	-0.1	-0.3	-1.6	-2.8	-2.1	-2.6	14.7	11.6
Stock changes	-0.0	-0.1	-0.1	-0.2	-0.1	-0.3	0.5	x	x
Primary supply	**1.8**	**1.5**	**1.6**	**1.5**	**3.0**	**2.2**	**2.5**	**-0.6**	**1.8**
Statistical difference	**-**	**-0.0**	**0.0**	**-0.0**	**0.1**	**0.1**	**..**	**x**	**x**
Total transformation	**-0.6**	**-0.2**	**-0.7**	**-0.8**	**-2.3**	**-1.5**	**..**	**1.1**	**4.8**
Electricity and heat gen.	-0.5	-0.2	-0.3	-0.8	-2.5	-1.6	..	-3.2	10.2
Main activity producers (1)	*-0.5*	*-0.2*	*-0.2*	*-0.3*	*-1.7*	*-0.9*	*..*	*-6.3*	*10.2*
Autoproducers	-	-	*-0.1*	*-0.5*	*-0.7*	*-0.7*	*..*	-	*10.3*
Gas works	-0.0	-0.0	-	-	-	-	..	-	-
Coal transformation(2)	-0.0	-0.0	-0.4	0.0	0.1	0.1	..	22.6	-
BKB plants	-	-	-	-	-	-	*..*	-	-
Blast furnaces	-	-	*-0.4*	*0.0*	*0.1*	*0.1*	*..*	-	-
Coke ovens	*-0.0*	*-0.0*	-	-	-	-	*..*	-	-
Patent fuel plants	*-0.0*	-	-	-	-	-	*..*	-	-
Other transformation(3)	-	-	-	-	-	-	..	-	-
Own use	**-**	**-0.0**	**-**	**-**	**-**	**-**	**..**	**-**	**-**
Distribution losses	**-**	**-0.0**	**-**	**-**	**-**	**-**	**..**	**x**	**x**
Final consumption(4)	**1.2**	**1.1**	**1.0**	**0.7**	**0.8**	**0.8**	**..**	**-1.5**	**-1.4**
Industry sector(5)	1.0	0.8	0.8	0.5	0.5	0.6	..	-1.3	-1.9
Iron and steel	*0.1*	*0.1*	-	-	-	-	*..*	-	-
Chemical	-	-	-	-	-	-	*..*	-	-
Non-metallic minerals	-	*0.1*	-	-	-	-	*..*	-	-
Paper, pulp and print	-	*0.1*	-	-	-	-	*..*	-	-
Transport sector(6)	-	0.0	-	-	-	-	..	-	-
Other sectors(7)	0.3	0.4	0.2	0.2	0.2	0.2	..	-2.2	0.3
Comm. and pub. services	-	*0.2*	*0.1*	*0.1*	*0.1*	*0.1*	*..*	-	*2.4*
Residential	*0.2*	*0.2*	*0.1*	*0.0*	*0.0*	*0.0*	*..*	*-8.2*	*-6.3*
Non-energy use	-	-	-	-	-	-	..	-	-

Source: *IEA/OECD Energy Balances of OECD Countries*

(1) Main activity electricity and heat generation includes district heating.

(2) Coal transformation refers to the transformation of coal and peat to secondary and tertiary products (mainly coke, briquettes, coke oven gas and blast furnace gas).

(3) Other transformation includes liquefaction and non-specified transformation.

(4) Final Consumption includes non-energy use and energy use (industry, transport and other sectors).

(5) Please refer to notes in *Principles and Definitions* for detailed explanation.

(6) Transport sector includes rail and inland waterways.

(7) Other sectors includes commercial and public services, agriculture, and residential.

* "Coal" refers to all types of coal, primary (anthracite, coking coal, other bituminous coal, sub-bituminous coal, lignite/brown coal, peat) and derived fuels (including patent fuel, BKB/peat briquettes, coke oven coke, gas coke, coal tar, coke oven gas, gas works gas, blast furnace gas and oxygen steel furnace gas). Quantities have been converted to Mtce using calorific values reported by the respective countries. Please refer to notes in *Principles and Definitions*.

New Zealand

6. USE OF COAL FOR SELECTED END-USES*

(million tonnes)

	1978	1980	1990	2000	2005	2006	2007	Average annual percent change 78-90	90-07
Steam coal	**2.04**	**1.76**	**1.78**	**1.78**	**3.94**	**3.91**	**2.80**	**-1.10**	**2.68**
Total electricity and heat	0.59	0.30	0.27	0.45	2.42	2.30	1.20	-6.32	9.14
Main activity producers	*0.59*	*0.30*	*0.23*	*0.43*	*2.41*	*2.28*	*1.17*	*-7.50*	*9.96*
Autoproducers	-	-	*0.04*	*0.02*	*0.02*	*0.02*	*0.03*	-	*-1.58*
Patent fuel/BKB plants	-	-	-	-	-	-	-	-	-
Coke ovens	0.05	0.02	-	-	-	-	-	-	-
Blast furnace inputs	-	-	0.64	0.67	0.80	0.81	0.79	-	1.21
Gas manufacture	0.08	0.08	-	-	-	-	-	-	-
Industry sector	0.83	0.95	0.78	0.50	0.52	0.55	0.59	-0.50	-1.57
Iron and steel	*0.18*	*0.14*	-	-	-	-	-	-	-
Chemical	-	-	-	-	-	-	-	-	-
Non-metallic minerals	*0.12*	*0.10*	-	-	-	-	-	-	-
Paper, pulp and print	*0.03*	*0.06*	-	-	-	-	-	-	-
Other industry	*0.49*	*0.65*	*0.78*	*0.50*	*0.52*	*0.55*	*0.59*	*3.89*	*-1.57*
Res, comm & pub serv[(1)]	0.45	0.36	0.10	0.13	0.14	0.16	0.16	-11.72	2.59
Non-energy use	-	-	-	-	-	-	-	-	-
Coking coal	**-**	**0.01**	**0.22**	**-**	**-**	**-**	**-**	**-**	**-**
Total electricity and heat	-	-	-	-	-	-	-	-	-
Main activity producers	-	-	-	-	-	-	-	-	-
Autoproducers	-	-	-	-	-	-	-	-	-
Patent fuel/BKB plants	-	-	-	-	-	-	-	-	-
Coke ovens	-	-	-	-	-	-	-	-	-
Blast furnace inputs	-	-	-	-	-	-	-	-	-
Gas manufacture	-	-	-	-	-	-	-	-	-
Industry sector	-	-	0.16	-	-	-	-	-	-
Iron and steel	-	-	-	-	-	-	-	-	-
Chemical	-	-	-	-	-	-	-	-	-
Non-metallic minerals	-	-	-	-	-	-	-	-	-
Paper, pulp and print	-	-	-	-	-	-	-	-	-
Other industry	-	-	*0.16*	-	-	-	-	-	-
Res, comm & pub serv[(1)]	-	-	0.02	-	-	-	-	-	-
Non-energy use	-	-	-	-	-	-	-	-	-
Brown coal/lignite	**0.13**	**0.21**	**0.21**	**0.26**	**0.28**	**0.28**	**0.29**	**3.89**	**1.92**
Total electricity and heat	-	-	-	-	-	-	-	-	-
Main activity producers	-	-	-	-	-	-	-	-	-
Autoproducers	-	-	-	-	-	-	-	-	-
Patent fuel/BKB plants	-	-	-	-	-	-	-	-	-
Coke ovens	-	-	-	-	-	-	-	-	-
Gas manufacture	-	-	-	-	-	-	-	-	-
Industry sector	0.09	0.09	0.13	0.18	0.22	0.22	0.23	3.10	3.61
Iron and steel	-	-	-	-	-	-	-	-	-
Chemical	-	-	-	-	-	-	-	-	-
Non-metallic minerals	*0.00*	*0.01*	-	-	-	-	-	-	-
Paper, pulp and print	*0.03*	*0.03*	-	-	-	-	-	-	-
Other industry	*0.05*	*0.05*	*0.13*	*0.18*	*0.22*	*0.22*	*0.23*	*7.73*	*3.61*
Res, comm & pub serv[(1)]	0.04	0.11	0.08	0.08	0.06	0.06	0.05	5.52	-2.39
Non-energy use	-	-	-	-	-	-	-	-	-

Source: *IEA/OECD Energy Statistics of OECD Countries*

(1) Residential, commercial and public services.

* Please refer to notes in *Principles and Definitions* .

New Zealand

7. FUEL PRICES TO END USERS*

	1978[1]	1980	1990	2000	2004	2005	2006	2007	2008
					(US dollars / tce)				
For electricity generation									
Steam coal	c	c	c	c	c	c	c	c	c
Heavy fuel oil	c	c	c	c	c	c	c	c	c
Natural gas	c	c	c	c	c	c	c	c	c
For industry									
Steam coal	36.23	41.62	c	c	c	c	c	c	c
Coking coal	c	c	c	c	c	c	c	c	c
High sulphur fuel oil	90.62	162.81	157.65	186.64	192.21	274.18	255.71	367.96	471.57
Low sulphur fuel oil	..	..	..	..	..	..	330.60	360.75	..
Natural gas	..	..	61.47	46.55	95.92	129.14	145.45	162.36	..
					(New Zealand dollars / unit)[2]				
For electricity generation									
Steam coal	c	c	c	c	c	c	c	c	c
Heavy fuel oil	c	c	c	c	c	c	c	c	c
Natural gas	c	c	c	c	c	c	c	c	c
For industry									
Steam coal	34.00	41.75	c	c	c	c	c	c	c
Coking coal	c	c	c	c	c	c	c	c	c
High sulphur fuel oil	126.00	242.00	382.75	595.43	419.69	563.70	570.41	724.65	972.70
Low sulphur fuel oil	..	..	..	..	..	..	737.46	710.45	..
Natural gas	..	..	132.62	131.94	186.10	235.90	288.28	284.12	..

Source: *IEA/OECD Energy Prices & Taxes*

(1) Earliest year for which split by coal type is available.

(2) For steam coal, coking coal and heavy fuel oil per metric tonne; for natural gas per 10^7 kilocalories GCV.

* Please refer to notes in *Principles and Definitions*.

8. COAL TRADE BY TYPE OF COAL*

(Mtce)

	1973	1980	1990	2000	2004	2005	2006	2007	2008e
Total imports	**-**	**-**	**0.01**	**-**	**0.64**	**0.80**	**0.90**	**0.55**	**0.46**
Hard coal	-	-	0.01	-	0.64	0.80	0.90	0.55	0.46
Coking coal	*..*	*-*	*0.01*	*-*	*-*	*-*	*-*	*0.01*	*0.01*
Steam coal	*..*	*-*	*-*	*-*	*0.64*	*0.80*	*0.90*	*0.54*	*0.45*
Brown coal / lignite	-	-	-	-	-	-	-	0.00	0.00
Peat	-	-	-	-	-	-	-	-	-
Coal products[1]	-	-	-	-	-	-	-	-	-
Total exports	**0.03**	**0.07**	**0.32**	**1.60**	**1.97**	**2.41**	**2.79**	**2.07**	**2.63**
Hard coal	-	0.07	0.32	1.60	1.97	2.41	2.79	2.07	2.63
Coking coal	*..*	*0.07*	*0.32*	*1.60*	*1.97*	*2.41*	*2.79*	*2.07*	*2.63*
Steam coal	*..*	*-*	*-*	*-*	*-*	*-*	*-*	*-*	*-*
Brown coal / lignite	-	-	-	-	-	-	-	-	-
Peat	-	-	-	-	-	-	-	-	-
Coal products[1]	0.03	-	-	-	-	-	-	-	-

Source: *IEA/OECD Energy Balances of OECD Countries, IEA/OECD Energy Statistics of OECD Countries*

(1) Coal products includes products derived from coal, for example: coke, coal tar, briquettes, patent fuels.

* Please refer to notes in *Principles and Definitions*.

New Zealand

10. COKING COAL EXPORTS BY DESTINATION*

(thousand tonnes)

	1978[1]	1980	1990	2000	2004	2005	2006	2007	2008e
Total Exports	**11**	**70**	**336**	**1529**	**1908**	**2331**	**2720**	**2014**	**2561**
Exports to:									
Total OECD	**11**	**70**	**285**	**940**	**1013 e**	**1042 e**	**1216 e**	**431 e**	**-**
Australia	-	-	-	122	-	-	-	-	-
Austria	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-
Canada	-	-	30	-	-	-	-	-	-
Czech Republic	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-
Greece	-	-	-	-	-	-	-	-	-
Hungary	-	-	-	-	-	-	-	-	-
Iceland	-	-	-	-	-	-	-	-	-
Ireland	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-
Japan	11	70	243	687	1013 e	1042 e	1216 e	431 e	-
Korea	-	-	-	-	-	-	-	-	-
Luxembourg	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-
Netherlands	-	-	12	85	-	-	-	-	-
New Zealand	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-
Poland	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-
Slovak Republic	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-
Switzerland	-	-	-	46	-	-	-	-	-
Turkey	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-
United States	-	-	-	-	-	-	-	-	-
Total Non-OECD	**-**	**-**	**51**	**589**	**895 e**	**1289 e**	**1504 e**	**1583 e**	**-**
Brazil	-	-	-	-	387 e	451 e	526 e	556 e	-
Chinese Taipei	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-
Hong Kong, China	-	-	-	-	-	-	-	-	-
India	-	-	51	185	-	-	-	-	-
Israel	-	-	-	-	-	-	-	-	-
Romania	-	-	-	-	-	-	-	-	-
Oth. Africa & Mid. East	-	-	-	-	-	-	-	-	-
Other Latin America	-	-	-	313	390 e	467 e	545 e	579 e	-
Other Asia & Oceania	-	-	-	91	118 e	371 e	433 e	448 e	-
Other Europe and FSU	-	-	-	-	-	-	-	-	-
Non-Specified/Other	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**2561**

Source: IEA/OECD Coal Statistics

(1) Earliest year for which split by coal type is available.

* Please refer to notes in *Principles and Definitions*.

Norway*

Chart 1: TPES by fuel (Mtce)

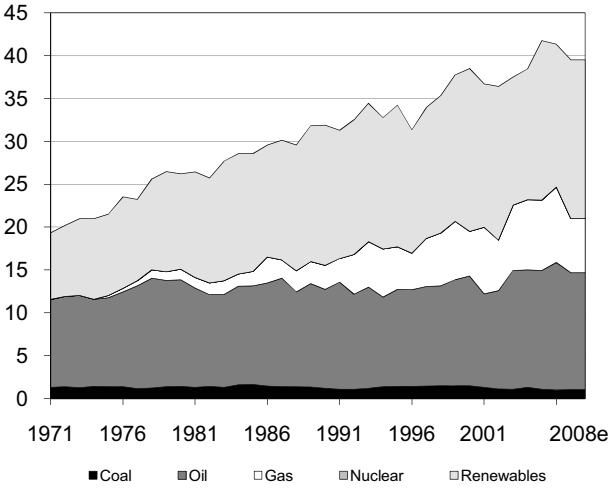


Chart 2: Coal supply indicators (1971 = 100)

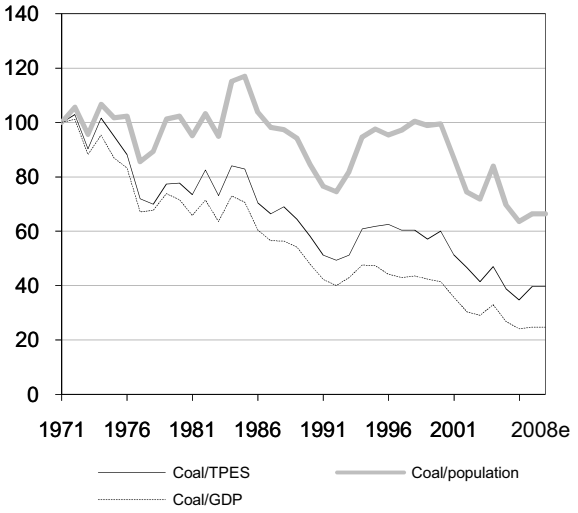


Chart 3: Primary coal supply (Mtce)

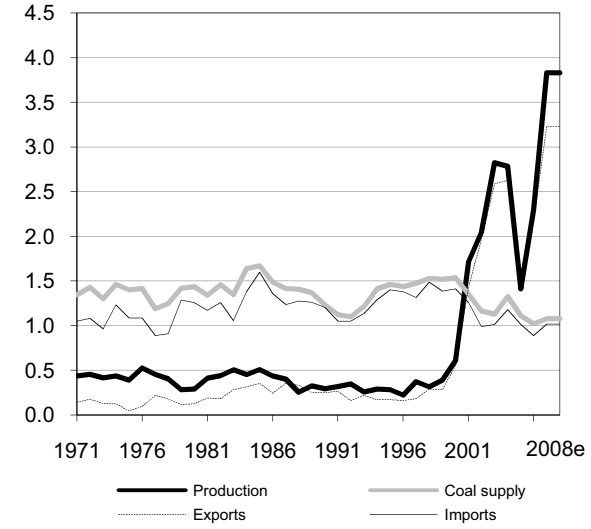


Chart 4: Coal consumption (Mtce)

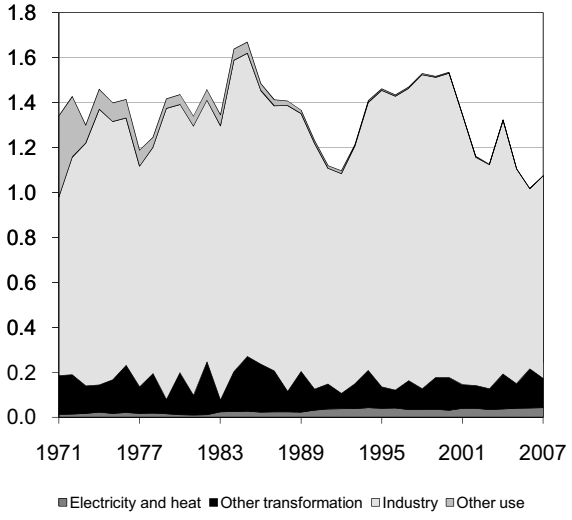


Chart 5: Electricity generation by fuel (TWh)

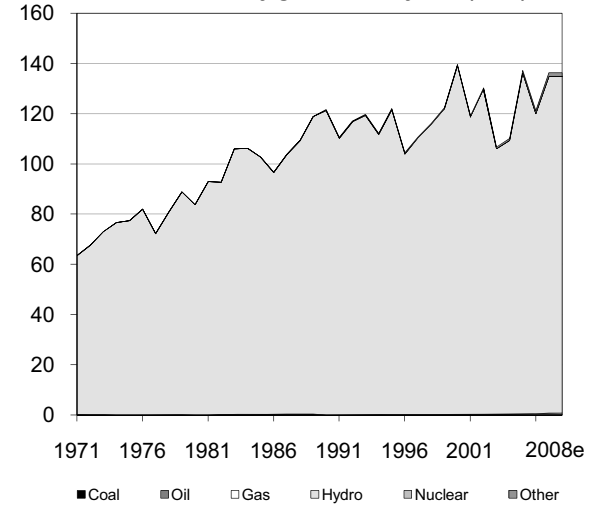
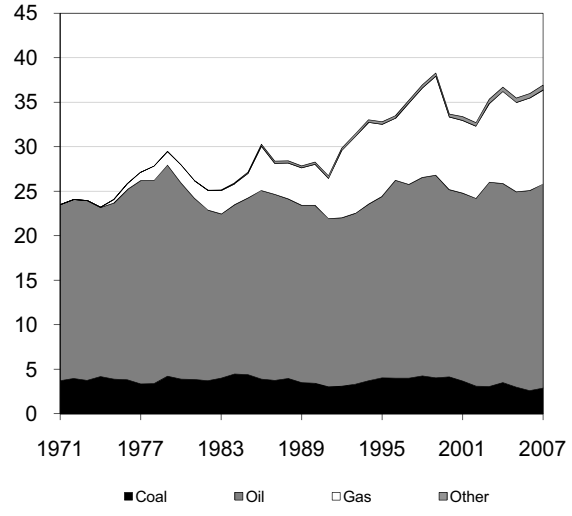


Chart 6: CO_2 emissions by fuel (Mt CO_2)



*Please refer to notes in *Principles and Definitions* . Peat is included in coal for all charts.

Norway

1. TOTAL PRIMARY ENERGY SUPPLY (TPES) BY FUEL*

	1973	1980	1990	2000	2006	2007	2008e	Average annual percent change 73-90	90-07
TPES (Mtce)	**20.37**	**26.16**	**30.00**	**36.21**	**41.50**	**38.37**	**44.35**	**2.30**	**1.46**
Coal and peat	1.30	1.44	1.23	1.54	1.02	1.08	1.10	-0.31	-0.80
Oil	10.76	12.44	11.52	12.78	14.87	13.63	17.25	0.40	1.00
Gas	-	1.24	2.82	5.19	8.81	6.32	8.39	-	4.85
Comb. renew/waste	-	0.84	1.47	1.95	1.91	1.95	1.99	-	1.67
Nuclear	-	-	-	-	-	-	-	-	-
Hydro	8.95	10.27	14.88	17.07	14.66	16.45	17.15	3.04	0.59
Geothermal	-	-	-	-	-	-	-	-	-
Solar, wind, tide	-	-	-	0.00	0.08	0.11	0.11	-	-
Net electricity trade(1)	-0.64	-0.06	-1.95	-2.34	0.10	-1.23	-1.70	6.81	-2.67
Heat(2)	-	-	0.03	0.03	0.05	0.06	0.06	-	4.96

Source: *IEA/OECD Energy Balances of OECD Countries*

(1) Net trade between OECD and non-OECD countries.

(2) Ambient heat from heat pumps used in the transformation sector.

2. ENERGY SUPPLY, GDP AND POPULATION*

	1973	1980	1990	2000	2006	2007	2008e	Average annual percent change 73-90	90-07
GDP (2000 bil. US$)	67	91	117	168	192	198	202	3.33	3.15
TPES/GDP(1)	0.30	0.29	0.26	0.22	0.22	0.19	0.22	-0.99	-1.64
Population (millions)	4.0	4.1	4.2	4.5	4.7	4.7	4.7	0.40	0.61
TPES/population(1)	5.14	6.40	7.07	8.06	8.90	8.15	9.43	1.89	0.84
TPES/GDP(2)	141.2	133.3	119.2	100.0	100.4	90.0	102.0	-0.99	-1.64
Coal and peat supply/GDP(2)	212.5	172.5	115.5	100.0	58.1	59.5	59.8	-3.52	-3.83
Elec. consumption/GDP(2)	139.3	126.0	127.2	100.0	85.9	85.8	..	-0.53	-2.29
Elec. generation (TWh)	73	84	122	140	121	136	142	3.05	0.68
Industrial production(2)	32.1	45.9	71.0	100.0	93.6	92.5	92.9	4.79	1.57

Source: *IEA/OECD Energy Balances of OECD Countries* , *OECD Main Economic Indicators*

(1) TPES/GDP in units of tce/2000 thousand US$, TPES/population in units of tce/capita.

(2) As index, 2000 = 100

3. COAL AND PEAT PRODUCTION BY TYPE*

	1978(1)	1980	1990	2000	2006	2007	2008e	Average annual percent change 78-90	90-07
Mtce:									
Coking coal	0.23	0.16	-	-	-	-	-	-	-
Steam coal	0.18	0.13	0.29	0.61	2.30	3.83	3.15	4.31	16.38
Brown coal	-	-	-	-	-	-	-	-	-
Peat	-	-	-	-	-	-	-	-	-
Mt:									
Coking coal	0.23	0.16	-	-	-	-	-	-	-
Steam coal	0.18	0.13	0.30	0.63	2.40	4.00	3.28	4.68	16.38
Brown coal	-	-	-	-	-	-	-	-	-
Peat	-	-	-	-	-	-	-	-	-

Source: *IEA/OECD Energy Balances of OECD Countries, IEA/OECD Energy Statistics of OECD Countries*

(1) Earliest year for which split by coal type is available.

* Please refer to notes in *Principles and Definitions* .

Norway

4. FINAL CONSUMPTION OF ENERGY BY FUEL*

(Mtce)

	1973	1980	1990	2000	2005	2006	2007	Average annual percent change 73-90	90-07
TFC[1]	**19.08**	**22.83**	**24.91**	**28.29**	**29.41**	**29.10**	**30.10**	**1.58**	**1.12**
Coal and peat	1.16	1.24	1.11	1.36	0.96	0.80	0.90	-0.27	-1.20
Oil	10.44	11.56	10.52	10.72	11.98	12.16	12.71	0.04	1.12
Gas	0.01	0.01	-	0.85	1.06	1.11	1.01	-	-
Comb. renew/wastes	-	0.84	1.28	1.71	1.51	1.52	1.53	-	1.04
Geothermal	-	-	-	-	-	-	-	-	-
Solar, wind, tide	-	-	-	-	-	-	-	-	-
Electricity	7.47	9.19	11.89	13.46	13.60	13.19	13.59	2.78	0.79
Heat	-	-	0.11	0.18	0.30	0.32	0.35	-	7.32
of which:									
Total industry	**8.34**	**9.19**	**8.62**	**9.91**	**9.30**	**8.93**	**8.99**	**0.19**	**0.25**
Coal and peat	1.08	1.19	1.09	1.36	0.96	0.80	0.90	0.07	-1.13
Oil	2.69	2.83	1.33	1.09	1.07	1.11	1.05	-4.08	-1.34
Gas	0.00	0.00	-	0.25	0.26	0.28	0.28	-	-
Comb. renew/wastes	-	0.26	0.55	0.85	0.58	0.57	0.62	-	0.74
Geothermal	-	-	-	-	-	-	-	-	-
Solar, wind, tide	-	-	-	-	-	-	-	-	-
Electricity	4.57	4.91	5.63	6.34	6.39	6.13	6.10	1.23	0.47
Heat	-	-	0.02	0.03	0.04	0.04	0.04	-	3.20
Total transport	**3.28**	**4.13**	**4.89**	**5.92**	**6.67**	**6.78**	**7.19**	**2.38**	**2.29**
Coal and peat	-	-	-	-	-	-	-	-	-
Oil	3.21	4.05	4.79	5.72	6.47	6.57	6.89	2.37	2.16
Gas	-	-	-	0.01	0.02	0.02	0.07	-	-
Comb. renew/wastes	-	-	-	-	-	0.01	0.04	-	-
Electricity	0.06	0.08	0.10	0.19	0.18	0.19	0.19	2.78	3.62
Residential	**2.68**	**4.55**	**5.15**	**5.46**	**5.48**	**5.45**	**5.54**	**3.92**	**0.44**
Coal and peat	0.08	0.04	0.01	0.00	0.00	0.00	-	-12.22	-
Oil	0.63	1.17	0.64	0.35	0.34	0.34	0.29	0.15	-4.64
Gas	0.01	0.00	-	0.00	0.01	0.00	0.01	-	-
Comb. renew/wastes	-	0.57	0.74	0.82	0.90	0.91	0.83	-	0.70
Geothermal	-	-	-	-	-	-	-	-	-
Solar, wind, tide	-	-	-	-	-	-	-	-	-
Electricity	1.96	2.77	3.72	4.26	4.18	4.13	4.35	3.84	0.92
Heat	-	-	0.04	0.03	0.05	0.06	0.07	-	4.12
Comm & public services	**0.82**	**2.33**	**2.90**	**2.92**	**3.36**	**3.29**	**3.54**	**7.67**	**1.18**
Coal and peat	-	-	-	-	-	-	-	-	-
Oil	0.01	0.98	0.49	0.34	0.52	0.53	0.51	22.95	0.26
Gas	0.00	-	-	0.00	0.01	0.02	0.02	-	-
Comb. renew/waste	-	-	-	0.04	0.03	0.03	0.03	-	-
Geothermal	-	-	-	-	-	-	-	-	-
Solar, wind, tide	-	-	-	-	-	-	-	-	-
Electricity	0.81	1.35	2.36	2.42	2.59	2.49	2.73	6.49	0.86
Heat	-	-	0.05	0.13	0.21	0.22	0.24	-	10.11
Non-energy use	**1.58**	**2.24**	**2.63**	**2.98**	**3.50**	**3.53**	**3.81**	**3.03**	**2.20**
Coal and peat	-	-	-	-	-	-	-	-	-
Oil	1.58	2.24	2.63	2.38	2.75	2.77	3.18	3.03	1.13
Gas	-	-	-	0.60	0.74	0.76	0.62	-	-

Source: *IEA/OECD Energy Balances of OECD Countries*

(1) Total Final Consumption (TFC) excludes use in transformation and energy sectors.

* Please refer to notes in *Principles and Definitions*.

Norway

5. COAL BALANCE*

(Mtce)

	1973	1980	1990	2000	2006	2007	2008e	Average annual percent change 73-90	90-07
Production	0.4	0.3	0.3	0.6	2.3	3.8	3.1	-2.1	16.4
Imports	1.0	1.3	1.2	1.4	0.9	1.0	1.1	1.3	-1.0
Exports	-0.1	-0.1	-0.2	-0.6	-2.2	-3.2	-3.2	3.9	16.3
Stock changes	0.1	0.0	-0.0	0.1	0.0	-0.5	0.1	x	x
Primary supply	**1.3**	**1.4**	**1.2**	**1.5**	**1.0**	**1.1**	**1.1**	**-0.3**	**-0.8**
Statistical difference	**0.0**	**-0.0**	**-0.0**	**-0.0**	**-0.0**	**-0.0**	**..**	**x**	**x**
Total transformation	**-0.1 e**	**-0.1 e**	**-0.1 e**	**-0.1 e**	**-0.2 e**	**-0.1 e**	**..**	**-1.2**	**1.5**
Electricity and heat gen.	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	..	3.5	1.7
Main activity producers (1)	*-0.0*	*-0.0*	*-0.0*	*-0.0*	*-0.0*	*-0.0*	..	*3.5*	*1.7*
Autoproducers	-	-	-	-	-	-	..	-	-
Gas works	-	-	-	-	-	-	..	-	-
Coal transformation(2)	-0.1 e	-0.1 e	-0.1 e	-0.1 e	-0.1 e	-0.1 e	..	-2.3	1.4
BKB plants	-	-	-	-	-	-	..	-	-
Blast furnaces	*-0.1 e*	*-0.1 e*	*-0.1 e*	*-0.1 e*	*-0.1 e*	*-0.1 e*	..	*-1.4*	*1.4*
Coke ovens	*-0.0*	*0.0*	-	-	-	-	..	-	-
Patent fuel plants	-	-	-	-	-	-	..	-	-
Other transformation(3)	-	-	-	-	-	-	..	-	-
Own use	**-0.0**	**-0.0**	**-**	**-**	**-**	**-**	**..**	**-**	**-**
Distribution losses	**-0.0**	**-0.0**	**-0.0**	**-0.0**	**-0.0**	**-0.0**	**..**	**x**	**x**
Final consumption(4)	**1.2**	**1.2**	**1.1**	**1.4**	**0.8**	**0.9**	**..**	**-0.3**	**-1.2**
Industry sector(5)	1.1	1.2	1.1	1.4	0.8	0.9	..	0.1	-1.1
Iron and steel	*0.8 e*	*0.9 e*	*0.8 e*	*0.8 e*	*0.4 e*	*0.5 e*	..	*-0.6*	*-2.1*
Chemical	*0.1*	*0.2*	*0.2*	*0.3*	*0.2*	*0.2*	..	*3.4*	*-0.4*
Non-metallic minerals	*0.1*	*0.1*	*0.1*	*0.3*	*0.2*	*0.2*	..	*1.5*	*2.3*
Paper, pulp and print	-	-	*0.0*	-	-	-	..	-	-
Transport sector(6)	-	-	-	-	-	-	..	-	-
Other sectors(7)	0.1	0.0	0.0	0.0	0.0	-	..	-9.9	-
Comm. and pub. services	-	-	-	-	-	-	..	-	-
Residential	*0.1*	*0.0*	*0.0*	*0.0*	*0.0*	-	..	*-12.2*	-
Non-energy use	-	-	-	-	-	-	..	-	-

Source: *IEA/OECD Energy Balances of OECD Countries*

(1) Main activity electricity and heat generation includes district heating.

(2) Coal transformation refers to the transformation of coal and peat to secondary and tertiary products (mainly coke, briquettes, coke oven gas and blast furnace gas).

(3) Other transformation includes liquefaction and non-specified transformation.

(4) Final Consumption includes non-energy use and energy use (industry, transport and other sectors).

(5) Please refer to notes in *Principles and Definitions* for detailed explanation.

(6) Transport sector includes rail and inland waterways.

(7) Other sectors includes commercial and public services, agriculture, and residential.

* "Coal" refers to all types of coal, primary (anthracite, coking coal, other bituminous coal, sub-bituminous coal, lignite/brown coal, peat) and derived fuels (including patent fuel, BKB/peat briquettes, coke oven coke, gas coke, coal tar, coke oven gas, gas works gas, blast furnace gas and oxygen steel furnace gas). Quantities have been converted to Mtce using calorific values reported by the respective countries. Please refer to notes in *Principles and Definitions*.

Norway

6. USE OF COAL FOR SELECTED END-USES*

(million tonnes)

	1978	1980	1990	2000	2005	2006	2007	Average annual percent change 78-90	90-07
Steam coal	**0.42**	**0.52**	**0.75**	**1.04**	**0.80**	**0.64**	**0.68**	**5.00**	**-0.58**
Total electricity and heat	0.02	0.01	0.02	0.02	0.03	0.03	0.03	0.84	1.49
Main activity producers	*0.02*	*0.01*	*0.02*	*0.02*	*0.03*	*0.03*	*0.03*	*0.84*	*1.49*
Autoproducers	-	-	-	-	-	-	-	-	-
Patent fuel/BKB plants	-	-	-	-	-	-	-	-	-
Coke ovens	-	-	-	-	-	-	-	-	-
Blast furnace inputs	-	-	-	-	-	-	-	-	-
Gas manufacture	-	-	-	-	-	-	-	-	-
Industry sector	0.35	0.51	0.74	0.96	0.69	0.59	0.64	6.54	-0.91
Iron and steel	*0.25*	*0.31*	*0.48*	*0.47*	*0.31*	*0.28*	*0.33*	*5.75*	*-2.18*
Chemical	*0.10*	*0.12*	*0.11*	*0.22*	*0.19*	*0.11*	*0.11*	*1.12*	*-0.27*
Non-metallic minerals	*-*	*0.08*	*0.14*	*0.27*	*0.19*	*0.19*	*0.20*	*-*	*2.09*
Paper, pulp and print	-	*-*	*0.01*	*-*	*-*	*-*	*-*	*-*	*-*
Other industry	*0.00*	*0.00*	*0.00*	*0.00*	*-*	*-*	*-*	*3.44*	*-*
Res, comm & pub serv[1]	0.01	0.01	0.01	0.00	-	0.00	-	-2.93	-
Non-energy use	-	-	-	-	-	-	-	-	-
Coking coal	**0.41**	**0.43**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
Total electricity and heat	-	-	-	-	-	-	-	-	-
Main activity producers	-	-	-	-	-	-	-	-	-
Autoproducers	-	-	-	-	-	-	-	-	-
Patent fuel/BKB plants	-	-	-	-	-	-	-	-	-
Coke ovens	0.41	0.43	-	-	-	-	-	-	-
Blast furnace inputs	-	-	-	-	-	-	-	-	-
Gas manufacture	-	-	-	-	-	-	-	-	-
Industry sector	-	-	-	-	-	-	-	-	-
Iron and steel	-	-	-	-	-	-	-	-	-
Chemical	-	-	-	-	-	-	-	-	-
Non-metallic minerals	-	-	-	-	-	-	-	-	-
Paper, pulp and print	-	-	-	-	-	-	-	-	-
Other industry	-	-	-	-	-	-	-	-	-
Res, comm & pub serv[1]	-	-	-	-	-	-	-	-	-
Non-energy use	-	-	-	-	-	-	-	-	-
Brown coal/lignite	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
Total electricity and heat	-	-	-	-	-	-	-	-	-
Main activity producers	-	-	-	-	-	-	-	-	-
Autoproducers	-	-	-	-	-	-	-	-	-
Patent fuel/BKB plants	-	-	-	-	-	-	-	-	-
Coke ovens	-	-	-	-	-	-	-	-	-
Gas manufacture	-	-	-	-	-	-	-	-	-
Industry sector	-	-	-	-	-	-	-	-	-
Iron and steel	-	-	-	-	-	-	-	-	-
Chemical	-	-	-	-	-	-	-	-	-
Non-metallic minerals	-	-	-	-	-	-	-	-	-
Paper, pulp and print	-	-	-	-	-	-	-	-	-
Other industry	-	-	-	-	-	-	-	-	-
Res, comm & pub serv[1]	-	-	-	-	-	-	-	-	-
Non-energy use	-	-	-	-	-	-	-	-	-

Source: *IEA/OECD Energy Statistics of OECD Countries*

(1) Residential, commercial and public services.

* Please refer to notes in *Principles and Definitions*.

Norway

7. FUEL PRICES TO END USERS*

	1978[1]	1980	1990	2000	2004	2005	2006	2007	2008
				(US dollars / tce)					
For electricity generation									
Steam coal	..	..	..	..	..	..	..	..	..
Heavy fuel oil	x	x	x	x	x	x	x	x	x
Natural gas	..	..	..	..	..	..	..	..	..
For industry									
Steam coal	39.79	62.32	53.13	..	..	..	..	..	..
Coking coal	..	116.19	93.32	x	x	x	x	x	x
High sulphur fuel oil	70.70	141.87	217.89	x	x	x	x	x	x
Low sulphur fuel oil	..	..	..	249.16	..	..	..	..	..
Natural gas	x	x	x	x	x	x	x	x	x
				(Norwegian crowns / unit)[2]					
For electricity generation									
Steam coal	..	..	..	..	..	..	..	..	..
Heavy fuel oil	x	x	x	x	x	x	x	x	x
Natural gas	..	..	..	..	..	..	..	..	..
For industry									
Steam coal	200	295	319	..	..	..	..	..	..
Coking coal	..	550	560	x	x	x	x	x	x
High sulphur fuel oil	528	998	1943	x	x	x	x	x	x
Low sulphur fuel oil	..	..	..	3123	..	..	..	..	..
Natural gas	x	x	x	x	x	x	x	x	x

Source: *IEA/OECD Energy Prices & Taxes*

(1) Earliest year for which split by coal type is available.

(2) For steam coal, coking coal and heavy fuel oil per metric tonne; for natural gas per 10^7 kilocalories GCV.

* Please refer to notes in *Principles and Definitions*.

8. COAL TRADE BY TYPE OF COAL*

(Mtce)

	1973	1980	1990	2000	2004	2005	2006	2007	2008e
Total imports	**0.96**	**1.25**	**1.20**	**1.41**	**1.18**	**1.01**	**0.89**	**1.01**	**1.06**
Hard coal	0.40	0.74	0.68	0.88	0.73	0.64	0.51	0.58	0.64
Coking coal	*..*	*0.27*	-	-	-	-	-	-	-
Steam coal	*..*	*0.47*	*0.68*	*0.88*	*0.73*	*0.64*	*0.51*	*0.58*	*0.64*
Brown coal / lignite	-	-	-	-	-	-	-	-	-
Peat	-	-	-	-	-	-	-	-	-
Coal products[1]	0.56	0.52	0.52	0.53	0.44	0.37	0.38	0.43	0.42
Total exports	**0.13**	**0.13**	**0.25**	**0.55**	**2.63**	**1.60**	**2.17**	**3.23**	**3.19**
Hard coal	0.08	0.09	0.24	0.55	2.63	1.60	2.17	3.23	3.19
Coking coal	*..*	-	-	-	-	-	-	-	-
Steam coal	*..*	*0.09*	*0.24*	*0.55*	*2.63*	*1.60*	*2.17*	*3.23*	*3.19*
Brown coal / lignite	-	-	-	-	-	-	-	-	-
Peat	-	-	-	-	-	-	-	-	-
Coal products[1]	0.05	0.03	0.00	0.00	-	0.00	-	-	0.00

Source: *IEA/OECD Energy Balances of OECD Countries, IEA/OECD Energy Statistics of OECD Countries*

(1) Coal products includes products derived from coal, for example: coke, coal tar, briquettes, patent fuels.

* Please refer to notes in *Principles and Definitions*.

Norway

9. HARD COAL IMPORTS BY ORIGIN*

(thousand tonnes)

	1978[1]	1980	1990	2000	2004	2005	2006	2007	2008e
Hard Coal	**450**	**739**	**713**	**919**	**766**	**667**	**528**	**610**	**666**
Coking Coal	**187**	**272**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
Australia	-	-	-	-	-	-	-	-	-
Canada	-	-	-	-	-	-	-	-	-
Czech Republic	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-
Poland	125	80	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-
United States	62	192	-	-	-	-	-	-	-
Other OECD	-	-	-	-	-	-	-	-	-
China, People's Rep.	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-
South Africa	-	-	-	-	-	-	-	-	-
Former USSR[2]	-	-	-	-	-	-	-	-	-
Russia[3]	-	-	-	-	-	-	-	-	-
Other Former USSR[3]	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-
Non-specified/other	-	-	-	-	-	-	-	-	-
Steam coal	**263**	**467**	**713**	**919**	**766**	**667**	**528**	**610**	**666**
Australia	2	1	-	-	-	-	-	3	-
Canada	-	-	-	-	-	-	-	-	-
Czech Republic	-	-	32	-	-	-	-	-	-
Germany	55	29	48	64	83	71	38	35	72
Poland	29	155	87	151	229	159	166	157	179
United Kingdom	77	60	181	169	95	103	21	72	44
United States	46	153	151	21	33	17	-	5	89
Other OECD	38	63	99	291	141	145	140	184	161
China, People's Rep.	-	-	4	36	10	30	6	17	-
Colombia	-	-	9	102	105	97	72	98	68
Indonesia	-	-	-	-	-	-	-	-	-
South Africa	16	6	-	-	-	-	-	-	2
Former USSR[2]	-	-	-	-	-	-	-	-	-
Russia[3]	-	-	*97*	*82*	*70*	*39*	*76*	*33*	*50*
Other Former USSR[3]	-	-	-	*3*	-	*3*	*9*	*3*	-
Venezuela	-	-	5	-	-	-	-	3	-
Vietnam	-	-	-	-	-	-	-	-	-
Non-specified/other	-	-	-	-	-	3	-	-	1

Source: IEA/OECD Coal Statistics

(1) Earliest year for which split by coal type is available.

(2) If no detail.

(3) Data for former republics are not available separately for some OECD member countries.

* Please refer to notes in *Principles and Definitions*.

Norway

11. STEAM COAL EXPORTS BY DESTINATION*

(thousand tonnes)

	1978[1]	1980	1990	2000	2004	2005	2006	2007	2008e
Total Exports	**77**	**91**	**254**	**574**	**2741**	**1666**	**2266**	**3371**	**3328**
Exports to:									
Total OECD	**76**	**90**	**253**	**570**	**2741**	**1666**	**2266**	**3371**	**3328**
Australia	-	-	-	-	-	-	-	-	-
Austria	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-
Canada	-	-	-	-	-	-	-	-	-
Czech Republic	-	-	-	-	-	-	-	-	-
Denmark	-	-	2	156	310	245	129	324	340
Finland	-	-	-	50	-	-	46	-	66
France	-	-	50	-	93	111	111	-	137
Germany	75	87	87	330	1972	994	1693	2275	2148
Greece	-	-	-	-	69	71	73	104	76
Hungary	-	-	-	-	-	-	-	-	-
Iceland	-	-	-	7	7	-	7	19	9
Ireland	-	-	-	-	-	-	-	-	-
Italy	-	-	4	-	-	-	-	-	-
Japan	-	-	-	-	-	-	-	-	-
Korea	-	-	-	-	-	-	-	-	-
Luxembourg	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-
Netherlands	-	-	46	-	-	-	-	-	71
New Zealand	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-
Poland	-	-	-	2	2	1	-	-	105
Portugal	-	-	-	-	216	214	143	219	227
Slovak Republic	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-
Sweden	-	-	3	-	-	-	-	-	-
Switzerland	-	-	-	-	-	-	-	-	6
Turkey	-	-	-	-	-	-	-	-	-
United Kingdom	1	3	61	25	72	30	-	398	143
United States	-	-	-	-	-	-	64	32	-
Total Non-OECD	**-**	**-**	**-**	**4**	**-**	**-**	**-**	**-**	**-**
Brazil	-	-	-	-	-	-	-	-	-
Chinese Taipei	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-
Hong Kong, China	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-
Israel	-	-	-	-	-	-	-	-	-
Romania	-	-	-	-	-	-	-	-	-
Oth. Africa & Mid. East	-	-	-	2	-	-	-	-	-
Other Latin America	-	-	-	-	-	-	-	-	-
Other Asia & Oceania	-	-	-	-	-	-	-	-	-
Other Europe and FSU	-	-	-	2	-	-	-	-	-
Non-Specified/Other	**1**	**1**	**1**	**-**	**-**	**-**	**-**	**-**	**-**

Source: IEA/OECD Coal Statistics

(1) Earliest year for which split by coal type is available.

* Please refer to notes in *Principles and Definitions*.

Poland*

Chart 1: TPES by fuel (Mtce)

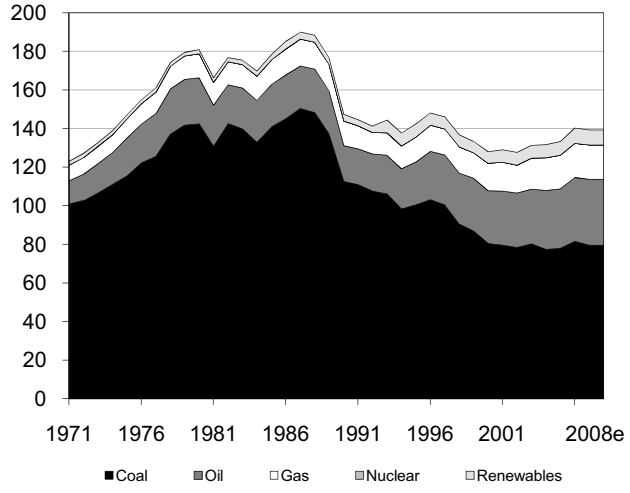


Chart 2: Coal supply indicators (1971 = 100)

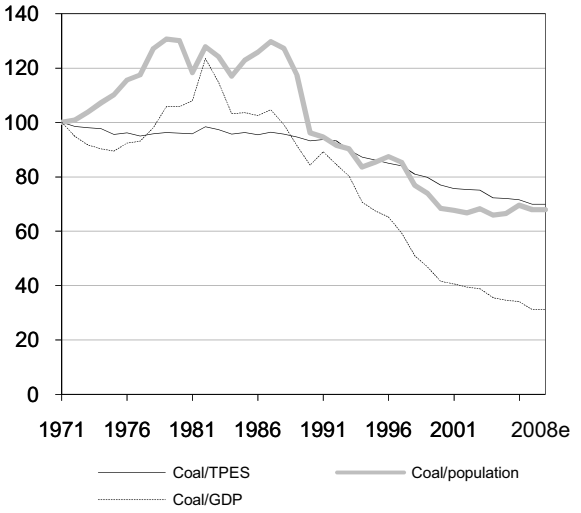


Chart 3: Primary coal supply (Mtce)

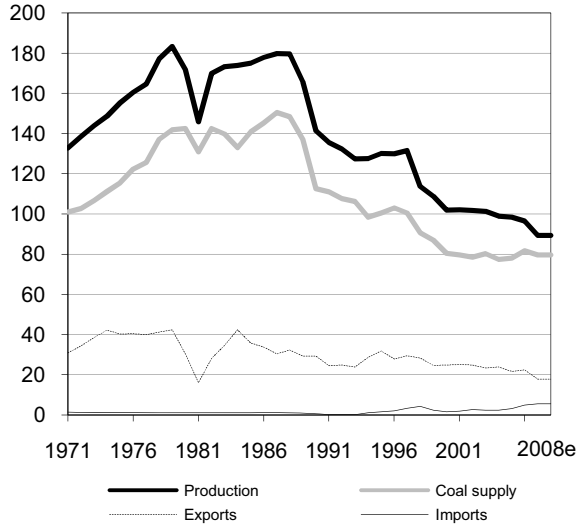


Chart 4: Coal consumption (Mtce)

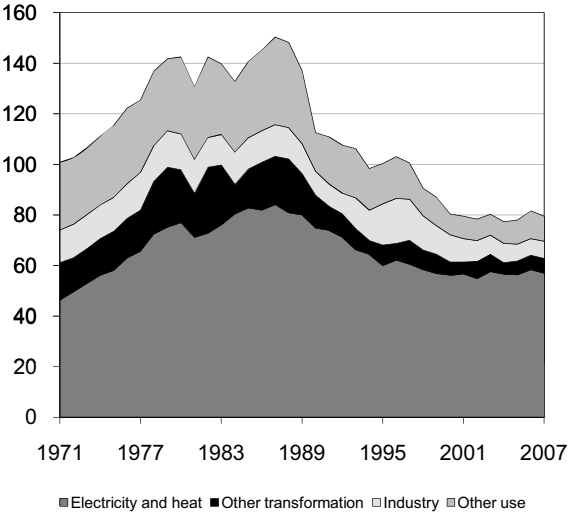


Chart 5: Electricity generation by fuel (TWh)

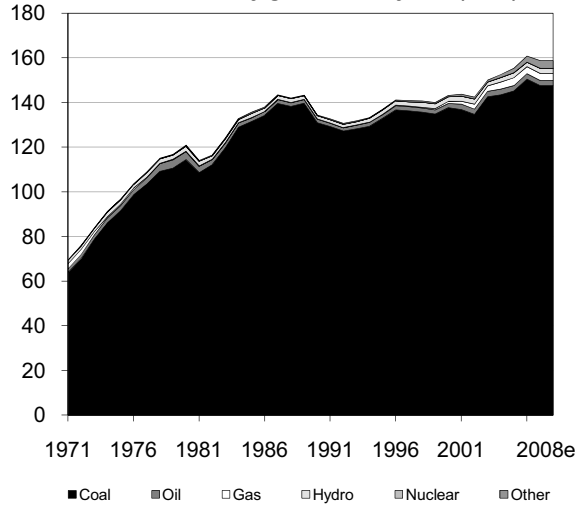
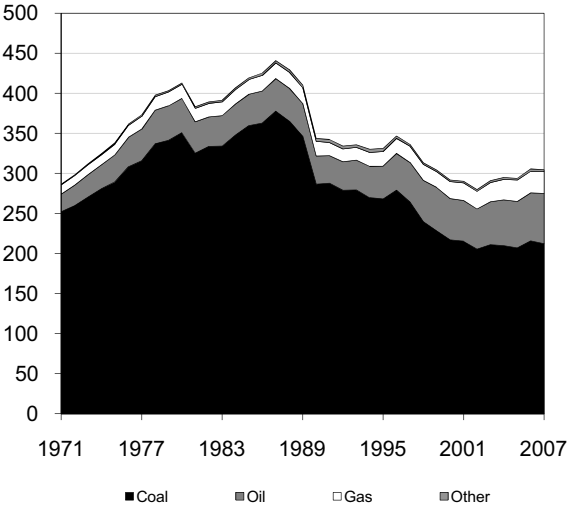


Chart 6: CO_2 emissions by fuel (Mt CO_2)



*Please refer to notes in *Principles and Definitions* . Peat is included in coal for all charts.

Poland

1. TOTAL PRIMARY ENERGY SUPPLY (TPES) BY FUEL*

	1973	1980	1990	2000	2006	2007	2008e	Average annual percent change 73-90	90-07
TPES (Mtce)	**132.68**	**180.89**	**147.29**	**127.31**	**138.99**	**138.73**	**140.52**	**0.62**	**-0.35**
Coal and peat	106.71	142.57	112.67	80.43	81.67	79.62	78.35	0.32	-2.02
Oil	15.26	23.79	18.62	27.36	33.04	34.23	36.07	1.18	3.65
Gas	8.94	12.53	12.77	14.22	17.67	17.68	17.86	2.12	1.93
Comb. renew/waste	1.81	1.74	3.18	5.81	7.66	7.49	7.99	3.37	5.16
Nuclear	-	-	-	-	-	-	-	-	-
Hydro	0.18	0.29	0.17	0.26	0.25	0.29	0.28	-0.16	3.03
Geothermal	-	-	-	0.00	0.02	0.01	0.01	-	-
Solar, wind, tide	-	-	-	0.00	0.03	0.06	0.10	-	-
Net electricity trade[1]	-0.22	-0.03	-0.13	-0.78	-1.35	-0.66	-0.15	-3.02	10.11
Heat[2]	-	-	-	-	-	-	-	-	-

Source: *IEA/OECD Energy Balances of OECD Countries*

(1) Net trade between OECD and non-OECD countries.

(2) Ambient heat from heat pumps used in the transformation sector.

2. ENERGY SUPPLY, GDP AND POPULATION*

	1973	1980	1990	2000	2006	2007	2008e	Average annual percent change 73-90	90-07
GDP (2000 bil. US$)	103 e	119 e	118	171	212	226	237	0.82	3.88
TPES/GDP[1]	1.29 e	1.52 e	1.25	0.74	0.66	0.61	0.59	-0.20	-4.08
Population (millions)	33.4	35.6	38.0	38.3	38.1	38.1	38.0	0.77	0.01
TPES/population[1]	3.98	5.08	3.87	3.33	3.65	3.64	3.69	-0.15	-0.36
TPES/GDP[2]	173.6 e	204.5 e	167.7	100.0	88.3	82.6	79.9	-0.20	-4.08
Coal and peat supply/GDP[2]	221.0 e	255.2 e	203.0	100.0	82.1	75.1	70.5	-0.50	-5.68
Elec. consumption/GDP[2]	98.4 e	124.1 e	141.4	100.0	91.1	88.0	..	2.16	-2.75
Elec. generation (TWh)	84	121	134	143	161	159	154	2.81	0.98
Industrial production[2]	..	..	61.0	100.0	145.5	159.4	165.1	-	5.81

Source: *IEA/OECD Energy Balances of OECD Countries* , *OECD Main Economic Indicators*

(1) TPES/GDP in units of tce/2000 thousand US$, TPES/population in units of tce/capita.

(2) As index, 2000 = 100

3. COAL AND PEAT PRODUCTION BY TYPE*

	1978[1]	1980	1990	2000	2006	2007	2008e	Average annual percent change 78-90	90-07
Mtce:									
Coking coal	41.12	31.71	28.99	17.24	14.69	13.72	12.10	-2.87	-4.30
Steam coal	125.04	130.32	93.12	67.30	63.83	58.50	56.65	-2.43	-2.70
Brown coal	11.03	9.90	19.27	17.32	17.99	17.05	17.65	4.76	-0.72
Peat	-	-	-	-	-	-	-	-	-
Mt:									
Coking coal	40.85	31.50	28.79	17.22	14.57	13.64	12.02	-2.87	-4.30
Steam coal	151.78	161.63	118.94	86.11	80.65	74.68	72.31	-2.01	-2.70
Brown coal	41.01	36.87	67.58	59.48	60.84	57.54	59.57	4.25	-0.94
Peat	-	-	-	-	-	-	-	-	-

Source: *IEA/OECD Energy Balances of OECD Countries, IEA/OECD Energy Statistics of OECD Countries*

(1) Earliest year for which split by coal type is available.

* Please refer to notes in *Principles and Definitions* .

Poland

4. FINAL CONSUMPTION OF ENERGY BY FUEL*

(Mtce)

	1973	1980	1990	2000	2005	2006	2007	Average annual percent change 73-90	90-07
TFC[1]	**86.50**	**111.44**	**88.33**	**83.16**	**87.59**	**92.48**	**92.71**	**0.12**	**0.29**
Coal and peat	39.99	44.66	24.84	19.00	16.19	17.53	16.82	-2.76	-2.27
Oil	12.80	18.58	15.82	25.01	28.26	30.00	31.15	1.25	4.07
Gas	7.78	10.94	11.28	11.64	14.18	14.35	14.36	2.21	1.43
Comb. renew/wastes	1.16	1.09	2.33	5.55	5.92	6.69	6.38	4.19	6.10
Geothermal	-	-	-	0.00	0.02	0.02	0.01	-	-
Solar, wind, tide	-	-	-	-	0.00	0.00	0.00	-	-
Electricity	7.16	10.45	11.82	12.12	12.95	13.65	14.07	3.00	1.03
Heat	17.62	25.73	22.23	9.84	10.08	10.25	9.92	1.38	-4.64
of which:									
Total industry	**37.49**	**46.00**	**33.23**	**25.05**	**22.20**	**23.22**	**23.88**	**-0.71**	**-1.92**
Coal and peat	13.46	14.24	9.55	10.76	6.66	6.57	6.87	-2.00	-1.92
Oil	2.08	2.95	1.34	2.60	2.32	2.21	2.01	-2.53	2.41
Gas	5.18	6.12	3.77	3.24	3.98	4.20	4.40	-1.85	0.91
Comb. renew/wastes	0.24	0.44	0.97	1.41	1.54	2.13	2.12	8.70	4.70
Geothermal	-	-	-	-	-	-	-	-	-
Solar, wind, tide	-	-	-	-	-	-	-	-	-
Electricity	4.68	6.40	5.25	4.97	5.08	5.26	5.63	0.68	0.41
Heat	11.85	15.85	12.34	2.07	2.63	2.85	2.85	0.24	-8.25
Total transport	**12.81**	**13.11**	**10.38**	**13.59**	**17.28**	**19.11**	**21.01**	**-1.23**	**4.23**
Coal and peat	5.23	2.57	0.25	-	-	-	-	-16.42	-
Oil	7.16	9.94	9.46	12.93	16.38	18.07	19.98	1.65	4.49
Gas	-	-	-	0.09	0.34	0.46	0.43	-	-
Comb. renew/wastes	-	-	-	-	0.08	0.14	0.15	-	-
Electricity	0.43	0.59	0.67	0.57	0.49	0.44	0.45	2.74	-2.30
Residential	**19.71**	**28.81**	**25.73**	**24.55**	**26.18**	**27.61**	**26.02**	**1.58**	**0.07**
Coal and peat	13.14 e	17.58 e	9.46 e	6.10	7.12	8.26	7.45	-1.91	-1.40
Oil	0.17	0.25	0.06	1.27	1.44	1.36	1.38	-6.21	20.47
Gas	0.88	2.06	4.27	4.36	4.61	4.73	4.53	9.73	0.34
Comb. renew/wastes	0.81	0.56	1.17	3.24	3.44	3.56	3.24	2.16	6.17
Geothermal	-	-	-	0.00	0.01	0.01	0.01	-	-
Solar, wind, tide	-	-	-	-	-	-	-	-	-
Electricity	0.67	1.32	2.48	2.58	3.08	3.20	3.27	7.98	1.63
Heat	4.03	7.05	8.28	6.99	6.48	6.48	6.14	4.33	-1.74
Comm & public services	**7.90**	**10.93**	**8.01**	**7.09**	**9.18**	**9.84**	**9.66**	**0.08**	**1.11**
Coal and peat	6.00 e	7.96 e	4.00 e	0.75	0.96	1.10	1.03	-2.35	-7.67
Oil	-	-	-	0.56	0.60	0.97	0.78	-	-
Gas	0.22	0.49	0.48	1.32	2.33	2.15	2.21	4.78	9.39
Comb. renew/waste	0.09	0.06	0.03	0.32	0.22	0.17	0.21	-6.26	12.11
Geothermal	-	-	-	0.00	0.00	0.00	0.00	-	-
Solar, wind, tide	-	-	-	-	0.00	0.00	0.00	-	-
Electricity	0.88	1.18	2.37	3.41	4.12	4.56	4.53	6.01	3.89
Heat	0.71	1.24	1.13	0.74	0.94	0.89	0.89	2.76	-1.38
Non-energy use	**4.60**	**6.50**	**6.02**	**6.22**	**6.46**	**7.26**	**7.15**	**1.60**	**1.02**
Coal and peat	1.03	0.60	0.27	0.11	0.12	0.03	0.08	-7.66	-6.72
Oil	2.10	3.64	3.01	3.49	3.45	4.47	4.33	2.14	2.18
Gas	1.47	2.26	2.74	2.62	2.88	2.76	2.74	3.75	-0.02

Source: *IEA/OECD Energy Balances of OECD Countries*

(1) Total Final Consumption (TFC) excludes use in transformation and energy sectors.

* Please refer to notes in *Principles and Definitions*.

Poland

5. COAL BALANCE*

(Mtce)

	1973	1980	1990	2000	2006	2007	2008e	Average annual percent change 73-90	90-07
Production	143.9	171.9	141.4	101.9	96.5	89.3	86.4	-0.1	-2.7
Imports	1.2	1.0	0.6	1.5	4.8	5.5	9.1	-4.2	14.4
Exports	-38.5	-30.4	-29.3	-24.8	-22.3	-17.7	-13.5	-1.6	-2.9
Stock changes	0.2	0.0	0.0	1.9	2.7	2.5	-3.7	x	x
Primary supply	**106.7**	**142.6**	**112.7**	**80.4**	**81.7**	**79.6**	**78.3**	**0.3**	**-2.0**
Statistical difference	**-4.7**	**-9.7**	**-5.6**	**0.5**	**-1.6**	**-0.8**	**..**	**x**	**x**
Total transformation	**-59.2 e**	**-85.4 e**	**-80.2 e**	**-59.5 e**	**-60.6 e**	**-59.4 e**	**..**	**1.8**	**-1.7**
Electricity and heat gen.	-52.9 e	-77.0	-74.9	-56.2	-58.4	-57.0	..	2.1	-1.6
Main activity producers (1)	*-36.7 e*	*-53.6*	*-56.3*	*-53.4*	*-55.4*	*-54.5*	*..*	*2.5*	*-0.2*
Autoproducers	*-16.2 e*	*-23.4*	*-18.6*	*-2.8*	*-3.0*	*-2.4*	*..*	*0.8*	*-11.3*
Gas works	-2.0 e	-1.7	-0.4	-	-	-	..	-9.7	-
Coal transformation(2)	-4.3 e	-6.8 e	-4.9 e	-3.3 e	-2.3 e	-2.4 e	..	0.8	-4.0
BKB plants	*0.0*	*0.0*	*0.0*	*0.0*	*-*	*-*	*..*	*-2.9*	*-*
Blast furnaces	*-3.2 e*	*-4.2 e*	*-2.9 e*	*-1.9 e*	*-1.5 e*	*-1.8 e*	*..*	*-0.5*	*-2.9*
Coke ovens	*-1.2*	*-2.7*	*-2.0*	*-1.4*	*-0.8*	*-0.7*	*..*	*2.9*	*-6.3*
Patent fuel plants	*0.1*	*0.1*	*0.0*	*-*	*-*	*-*	*..*	*-23.8*	*-*
Other transformation(3)	-	-	-	-	-	-	..	-	-
Own use	**-2.8 e**	**-2.7**	**-2.0**	**-2.4**	**-1.8**	**-2.5**	**..**	**-2.1**	**1.5**
Distribution losses	**-0.0 e**	**-0.1**	**-0.0**	**-0.0**	**-0.1**	**-0.1**	**..**	**x**	**x**
Final consumption(4)	**40.0**	**44.7**	**24.8**	**19.0**	**17.5**	**16.8**	**..**	**-2.8**	**-2.3**
Industry sector(5)	13.5	14.2	9.6	10.8	6.6	6.9	..	-2.0	-1.9
Iron and steel	*2.6 e*	*3.4 e*	*2.9 e*	*3.1 e*	*1.8 e*	*1.7 e*	*..*	*0.6*	*-3.1*
Chemical	*0.7*	*0.7*	*0.4*	*1.8*	*1.1*	*1.1*	*..*	*-3.7*	*6.7*
Non-metallic minerals	*5.2*	*4.9*	*3.0*	*2.1*	*1.2*	*1.7*	*..*	*-3.2*	*-3.3*
Paper, pulp and print	*0.1*	*0.1*	*0.1*	*0.5*	*0.4*	*0.3*	*..*	*-1.0*	*10.3*
Transport sector(6)	5.2	2.6	0.2	-	-	-	..	-16.4	-
Other sectors(7)	20.3	27.3	14.8	8.1	10.9	9.9	..	-1.8	-2.3
Comm. and pub. services	*6.0 e*	*8.0 e*	*4.0 e*	*0.7*	*1.1*	*1.0*	*..*	*-2.4*	*-7.7*
Residential	*13.1 e*	*17.6 e*	*9.5 e*	*6.1*	*8.3*	*7.5*	*..*	*-1.9*	*-1.4*
Non-energy use	1.0	0.6	0.3	0.1	0.0	0.1	..	-7.7	-6.7

Source: *IEA/OECD Energy Balances of OECD Countries*

(1) Main activity electricity and heat generation includes district heating.

(2) Coal transformation refers to the transformation of coal and peat to secondary and tertiary products (mainly coke, briquettes, coke oven gas and blast furnace gas).

(3) Other transformation includes liquefaction and non-specified transformation.

(4) Final Consumption includes non-energy use and energy use (industry, transport and other sectors).

(5) Please refer to notes in *Principles and Definitions* for detailed explanation.

(6) Transport sector includes rail and inland waterways.

(7) Other sectors includes commercial and public services, agriculture, and residential.

* "Coal" refers to all types of coal, primary (anthracite, coking coal, other bituminous coal, sub-bituminous coal, lignite/brown coal, peat) and derived fuels (including patent fuel, BKB/peat briquettes, coke oven coke, gas coke, coal tar, coke oven gas, gas works gas, blast furnace gas and oxygen steel furnace gas). Quantities have been converted to Mtce using calorific values reported by the respective countries. Please refer to notes in *Principles and Definitions*.

Poland

6. USE OF COAL FOR SELECTED END-USES*

(million tonnes)

	1978	1980	1990	2000	2005	2006	2007	Average annual percent change 78-90	90-07
Steam coal	**127.71**	**138.51**	**102.10**	**70.04**	**69.28**	**73.15**	**71.69**	**-1.85**	**-2.06**
Total electricity and heat	84.76	92.64	77.55	51.63	50.82	53.03	52.83	-0.74	-2.23
Main activity producers	*57.61*	*64.47*	*55.18*	*48.60*	*47.98*	*50.09*	*50.51*	*-0.36*	*-0.52*
Autoproducers	*27.15*	*28.17*	*22.38*	*3.03*	*2.84*	*2.95*	*2.31*	*-1.60*	*-12.50*
Patent fuel/BKB plants	1.64	1.60	0.08	-	-	-	-	-22.50	-
Coke ovens	-	-	-	-	-	-	-	-	-
Blast furnace inputs	-	-	-	-	-	-	-	-	-
Gas manufacture	1.49	1.36	0.38	-	-	-	-	-10.73	-
Industry sector	9.35	9.82	6.74	9.70	5.61	5.44	5.78	-2.69	-0.90
Iron and steel	*0.11*	*0.11*	*0.05*	*0.79*	*0.26*	*0.36*	*0.32*	*-6.00*	*11.56*
Chemical	*0.36*	*0.53*	*0.32*	*2.17*	*1.23*	*1.18*	*1.23*	*-0.96*	*8.28*
Non-metallic minerals	*5.05*	*5.01*	*3.19*	*2.30*	*1.28*	*1.34*	*1.84*	*-3.75*	*-3.19*
Paper, pulp and print	*0.08*	*0.08*	*0.07*	*0.68*	*0.55*	*0.49*	*0.40*	*-1.35*	*10.92*
Other industry	*3.76*	*4.09*	*3.11*	*3.76*	*2.29*	*2.08*	*2.00*	*-1.55*	*-2.59*
Res, comm & pub serv[(1)]	25.23	27.31	14.60	8.10	8.99	10.12	9.70	-4.46	-2.38
Non-energy use	0.04	0.04	0.01	0.01	0.09	0.02	0.09	-7.78	11.78
Coking coal	**25.85**	**25.27**	**18.13**	**13.33**	**11.16**	**12.98**	**13.64**	**-2.91**	**-1.66**
Total electricity and heat	..	..	..	0.05	0.08	0.08	0.12	-	-
Main activity producers	*..*	*..*	*..*	*0.00*	-	-	-	-	-
Autoproducers	*..*	*..*	*..*	*0.05*	*0.08*	*0.08*	*0.12*	-	-
Patent fuel/BKB plants	-	-	-	-	-	-	-	-	-
Coke ovens	25.30	25.30	18.21	12.26	11.24	12.80	13.53	-2.70	-1.73
Blast furnace inputs	-	-	-	-	-	-	-	-	-
Gas manufacture	1.17	0.93	0.16	-	-	-	-	-15.08	-
Industry sector	-	-	-	0.02	-	-	-	-	-
Iron and steel	*..*	*..*	*..*	-	-	-	-	-	-
Chemical	-	-	-	-	-	-	-	-	-
Non-metallic minerals	*..*	*..*	*..*	*0.00*	-	-	-	-	-
Paper, pulp and print	-	-	-	-	-	-	-	-	-
Other industry	*..*	*..*	*..*	*0.01*	-	-	-	-	-
Res, comm & pub serv[(1)]	..	..	..	0.00	-	-	-	-	-
Non-energy use	-	-	-	-	-	-	-	-	-
Brown coal/lignite	**37.71**	**35.31**	**67.39**	**59.49**	**61.59**	**60.80**	**57.53**	**4.96**	**-0.93**
Total electricity and heat	36.91	34.15	66.92	59.11	61.08	60.23	56.90	5.08	-0.95
Main activity producers	*36.45*	*33.69*	*66.46*	*59.10*	*61.07*	*60.23*	*56.90*	*5.13*	*-0.91*
Autoproducers	*0.46*	*0.47*	*0.46*	*0.01*	*0.00*	*0.00*	*0.00*	*-0.05*	*-30.26*
Patent fuel/BKB plants	0.26	0.29	0.23	0.04	-	-	-	-0.87	-
Coke ovens	-	-	-	-	-	-	-	-	-
Gas manufacture	0.01	0.02	0.02	-	-	-	-	10.42	-
Industry sector	0.08	0.08	0.04	0.05	0.01	0.01	-	-4.76	-
Iron and steel	-	-	-	-	-	-	-	-	-
Chemical	*0.00*	*0.00*	*0.00*	-	-	-	-	*2.43*	-
Non-metallic minerals	*0.02*	*0.01*	*0.02*	*0.01*	-	-	-	*0.54*	-
Paper, pulp and print	-	-	-	-	-	-	-	-	-
Other industry	*0.06*	*0.07*	*0.02*	*0.04*	*0.01*	*0.01*	-	*-7.48*	-
Res, comm & pub serv[(1)]	-	-	0.06	0.14	0.23	0.25	0.23	-	7.97
Non-energy use	-	-	0.00	-	-	-	-	-	-

Source: *IEA/OECD Energy Statistics of OECD Countries*

(1) Residential, commercial and public services.

* Please refer to notes in *Principles and Definitions*.

Poland

7. FUEL PRICES TO END USERS*

	1978[1]	1980	1990	2000	2004	2005	2006	2007	2008
				(US dollars / tce)					
For electricity generation									
Steam coal	..	3.31	17.03	38.86	54.89	65.19	69.75	79.21	108.70
Heavy fuel oil	..	..	61.62	80.55	124.04	181.87	220.42	253.10	347.98
Natural gas	..	..	..	..	..	..	..	..	..
For industry									
Steam coal	..	..	..	48.83	65.40	71.39	81.68	96.83	130.45
Coking coal	..	..	..	39.10	95.31	114.57	94.24	111.17	222.20
High sulphur fuel oil	..	..	61.62	80.60	124.04	181.87	220.42	253.10	347.98
Low sulphur fuel oil	..	..	..	..	141.47	213.05	263.98	305.95	453.21
Natural gas	..	35.19	63.43	103.47	139.55	174.75	228.85	291.69	413.56
				(Polish zlotys / unit)[2]					
For electricity generation									
Steam coal	..	0.01	10.82	122.66	145.87	153.77	159.57	159.66	190.95
Heavy fuel oil	..	..	81.90	489.70	633.56	822.85	957.01	979.15	1173.31
Natural gas	..	..	..	..	..	..	..	..	..
For industry									
Steam coal	..	..	..	167.38	190.02	198.17	201.59	216.06	253.68
Coking coal	..	..	..	169.55	350.90	373.05	295.31	309.49	539.11
High sulphur fuel oil	..	..	81.90	490.00	633.56	822.85	957.01	979.15	1173.31
Low sulphur fuel oil	..	..	..	..	722.55	963.92	1146.16	1183.61	1528.10
Natural gas	..	0.20	77.47	578.13	655.05	726.60	913.15	1037.05	1281.49

Source: *IEA/OECD Energy Prices & Taxes*

(1) Earliest year for which split by coal type is available.

(2) For steam coal, coking coal and heavy fuel oil per metric tonne; for natural gas per 10^7 kilocalories GCV.

* Please refer to notes in *Principles and Definitions*.

8. COAL TRADE BY TYPE OF COAL*

(Mtce)

	1973	1980	1990	2000	2004	2005	2006	2007	2008e
Total imports	**1.17**	**1.01**	**0.56**	**1.46**	**2.35**	**3.08**	**4.80**	**5.51**	**9.13**
Hard coal	1.17	1.01	0.56	1.44	2.13	2.92	4.65	5.35	9.03
Coking coal	*..*	*1.01*	*0.56*	*1.27*	*0.61*	*0.62*	*1.44*	*2.29*	*3.47*
Steam coal	*..*	-	-	*0.17*	*1.53*	*2.31*	*3.22*	*3.06*	*5.56*
Brown coal / lignite	-	-	-	-	-	-	0.00	0.00	0.01
Peat	-	-	-	-	-	-	-	-	-
Coal products[1]	-	-	-	0.02	0.22	0.15	0.15	0.16	0.10
Total exports	**38.55**	**30.38**	**29.30**	**24.75**	**23.73**	**21.63**	**22.35**	**17.68**	**13.45**
Hard coal	34.32	28.28	25.75	21.23	18.18	16.78	15.85	11.18	7.32
Coking coal	*..*	*7.31*	*11.34*	*5.33*	*3.08*	*3.19*	*3.65*	*2.39*	*1.58*
Steam coal	*..*	*20.97*	*14.41*	*15.89*	*15.09*	*13.60*	*12.20*	*8.79*	*5.74*
Brown coal / lignite	1.37	0.42	0.06	0.00	0.01	0.00	-	-	0.00
Peat	-	-	-	-	-	-	-	-	-
Coal products[1]	2.85	1.67	3.49	3.53	5.55	4.85	6.50	6.50	6.13

Source: *IEA/OECD Energy Balances of OECD Countries, IEA/OECD Energy Statistics of OECD Countries*

(1) Coal products includes products derived from coal, for example: coke, coal tar, briquettes, patent fuels.

* Please refer to notes in *Principles and Definitions*.

Poland

9. HARD COAL IMPORTS BY ORIGIN*

(thousand tonnes)

	1978[1]	1980	1990	2000	2004	2005	2006	2007	2008e
Hard Coal	**1044**	**1012**	**560**	**1452**	**2328**	**3372**	**5271**	**5924**	**10085**
Coking Coal	**1044**	**1012**	**560**	**1263**	**602**	**610**	**1422**	**2268**	**3434**
Australia	-	-	-	-	-	35	-	-	63
Canada	-	-	-	-	-	-	-	-	-
Czech Republic	-	-	-	500	571	558	1419	1922	1547
Germany	-	-	-	-	18	17	-	-	-
Poland	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-
United States	-	-	-	-	-	-	-	302	1648
Other OECD	-	-	-	1	-	-	-	-	-
China, People's Rep.	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	40	146
Indonesia	-	-	-	-	-	-	-	-	-
South Africa	-	-	-	-	-	-	-	-	-
Former USSR[2]	-	-	-	-	-	-	-	-	-
Russia[3]	-	-	-	*736*	*11*	-	*3*	*4*	*30*
Other Former USSR[3]	-	-	-	*26*	*1*	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-
Non-specified/other	1044	1012	560	-	1	-	-	-	-
Steam coal	**-**	**-**	**-**	**189**	**1726**	**2762**	**3849**	**3656**	**6651**
Australia	-	-	-	11	-	-	-	-	-
Canada	-	-	-	-	-	-	-	-	-
Czech Republic	-	-	-	94	49	29	151	139	174
Germany	-	-	-	6	-	4	1	8	3
Poland	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	5
United States	-	-	-	1	-	-	-	-	54
Other OECD	-	-	-	2	4	4	-	2	163
China, People's Rep.	-	-	-	-	2	5	10	12	8
Colombia	-	-	-	4	30	56	80	135	359
Indonesia	-	-	-	-	-	-	-	-	-
South Africa	-	-	-	7	-	-	-	-	167
Former USSR[2]	-	-	-	-	-	-	-	-	-
Russia[3]	-	-	-	*13*	*1448*	*2390*	*3327*	*3042*	*5012*
Other Former USSR[3]	-	-	-	*51*	*193*	*274*	*280*	*318*	*706*
Venezuela	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-
Non-specified/other	-	-	-	-	-	-	-	-	-

Source: IEA/OECD Coal Statistics

(1) Earliest year for which split by coal type is available.

(2) If no detail.

(3) Data for former republics are not available separately for some OECD member countries.

* Please refer to notes in *Principles and Definitions*.

Poland

10. COKING COAL EXPORTS BY DESTINATION*

(thousand tonnes)

	1978[1]	1980	1990	2000	2004	2005	2006	2007	2008e
Total Exports	**16042**	**7235**	**11226**	**5290**	**3036**	**3151**	**3601**	**2363**	**1563**
Exports to:									
Total OECD	**6619**	**3881**	**2570**	**3649**	**2999**	**2769**	**3197**	**2363**	**1531**
Australia	..	..	..	-	-	-	-	-	-
Austria	470	467	566	599	629	520	607	608	385
Belgium	392	422	105	-	44	-	-	-	-
Canada	..	..	..	-	-	-	-	-	-
Czech Republic	..	..	..	214	462	523	944	1024	869
Denmark	..	1	..	-	20	-	-	-	-
Finland	..	..	203	717	354	13	-	-	-
France	1311	616	254	72	246	-	71	19	-
Germany	..	..	116	131	48	148	168	16	-
Greece	54	99	..	-	-	-	-	-	-
Hungary	..	..	..	266	81	219	154	117	89
Iceland	..	..	..	-	-	-	-	-	-
Ireland	..	..	2	-	-	-	-	-	-
Italy	1525	578	158	-	-	295	94	106	-
Japan	429	214	..	-	-	-	-	-	-
Korea	..	..	..	-	-	-	-	-	-
Luxembourg	..	..	..	-	-	-	-	-	-
Mexico	..	..	..	-	-	-	-	-	-
Netherlands	376	312	98	323	-	48	30	-	-
New Zealand	..	..	..	-	-	-	-	-	-
Norway	125	80	..	53	-	-	-	-	-
Poland	..	..	..	-	-	-	-	-	-
Portugal	122	60	40	-	-	-	-	-	-
Slovak Republic	..	..	..	669	997	622	914	448	188
Spain	1369	628	234	7	118	99	142	25	-
Sweden	71	1	..	494	-	-	-	-	-
Switzerland	..	..	..	-	-	-	-	-	-
Turkey	..	..	..	100	-	212	73	-	-
United Kingdom	375	403	794	4	-	-	-	-	-
United States	..	..	..	-	-	70	-	-	-
Total Non-OECD	**1472**	**2327**	**4576**	**1641**	**37**	**382**	**404**	**-**	**32**
Brazil	..	235	1249	143	-	-	70	-	-
Chinese Taipei	..	..	..	-	-	-	-	-	-
Egypt	..	..	..	529	37	355	298	-	-
Hong Kong, China	..	..	..	-	-	-	-	-	-
India	..	..	284	-	-	-	-	-	-
Israel	..	..	..	-	-	-	-	-	-
Romania	..	..	100	62	-	-	-	-	-
Oth. Africa & Mid. East	..	..	..	2	-	-	-	-	-
Other Latin America	..	145	1249	2	-	-	-	-	-
Other Asia & Oceania	..	..	..	-	-	-	-	-	-
Other Europe and FSU	1472	1947	1694	903	-	27	36	-	32
Non-Specified/Other	**7951**	**1027**	**4080**	**-**	**-**	**-**	**-**	**-**	**-**

Source: IEA/OECD Coal Statistics

(1) Earliest year for which split by coal type is available.

* Please refer to notes in *Principles and Definitions*.

Poland

11. STEAM COAL EXPORTS BY DESTINATION*

(thousand tonnes)

	1978[1]	1980	1990	2000	2004	2005	2006	2007	2008e
Total Exports	**24064**	**23120**	**16839**	**17955**	**16648**	**16218**	**13134**	**9537**	**6228**
Exports to:									
Total OECD	**16188**	**17103**	**13038**	**17117**	**16019**	**15736**	**13091**	**9264**	**6193**
Australia	..	..	..	-	-	-	-	-	-
Austria	260	411	1202	1213	1512	1187	1293	1230	894
Belgium	105	162	242	375	456	649	291	-	1
Canada	..	..	..	-	-	-	-	-	-
Czech Republic	274	2302	2282	863	781	717	945	1372	889
Denmark	3078	3422	972	2214	1071	837	516	353	139
Finland	4089	3535	2609	1175	1265	653	513	273	57
France	3441	2634	141	1336	572	1230	692	321	-
Germany	2041	1918	2583	6396	7213	6906	6298	4328	3350
Greece	-	-	..	1	-	-	-	-	-
Hungary	..	..	..	279	258	240	216	143	103
Iceland	..	12	..	-	9	9	19	-	-
Ireland	331	483	458	196	266	286	235	255	251
Italy	1437	1210	507	913	95	245	155	6	-
Japan	-	-	..	-	-	-	-	-	-
Korea	..	..	..	-	-	-	-	-	-
Luxembourg	..	..	..	-	-	-	-	-	-
Mexico	..	..	..	-	-	-	-	-	-
Netherlands	264	460	1043	208	191	222	218	70	2
New Zealand	..	..	..	-	-	-	-	-	-
Norway	-	-	..	88	183	142	160	134	124
Poland	..	..	..	-	-	-	-	-	-
Portugal	-	-	-	5	-	223	1	-	-
Slovak Republic	..	..	..	286	294	250	204	169	138
Spain	-	-	16	382	45	41	37	39	26
Sweden	174	171	732	146	322	172	283	294	54
Switzerland	8	53	1	-	-	-	-	-	-
Turkey	..	..	..	-	19	66	-	-	-
United Kingdom	41	43	250	1040	1399	1614	1015	277	165
United States	645	287	..	1	68	47	-	-	-
Total Non-OECD	**29**	**23**	**34**	**838**	**628**	**482**	**43**	**273**	**35**
Brazil	..	-	-	-	-	-	-	-	-
Chinese Taipei	..	..	..	-	-	-	-	-	-
Egypt	..	..	..	-	-	-	-	-	-
Hong Kong, China	..	..	..	-	-	-	-	-	-
India	..	..	-	-	45	-	-	-	-
Israel	..	..	..	-	-	-	-	-	-
Romania	..	..	16	-	-	-	-	-	-
Oth. Africa & Mid. East	29	23	18	1	501	436	-	247	5
Other Latin America	..	..	..	16	-	-	-	-	-
Other Asia & Oceania	..	..	..	3	-	-	-	-	-
Other Europe and FSU	..	..	..	818	82	46	43	26	30
Non-Specified/Other	**7847**	**5994**	**3767**	**-**	**1**	**-**	**-**	**-**	**-**

Source: IEA/OECD Coal Statistics

(1) Earliest year for which split by coal type is available.

* Please refer to notes in *Principles and Definitions*.

Portugal*

Chart 1: TPES by fuel (Mtce)

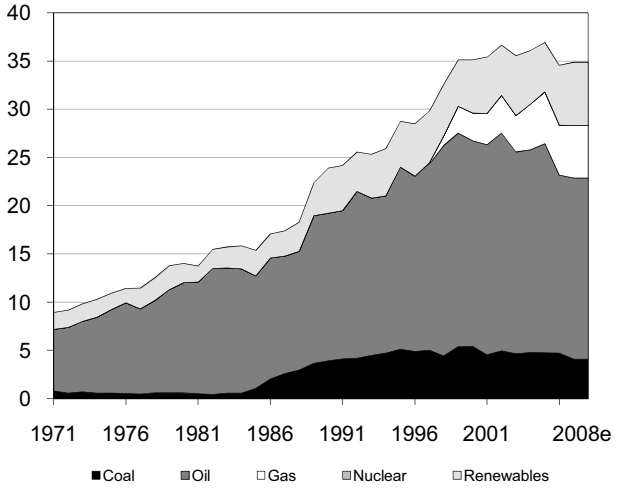


Chart 2: Coal supply indicators (1971 = 100)

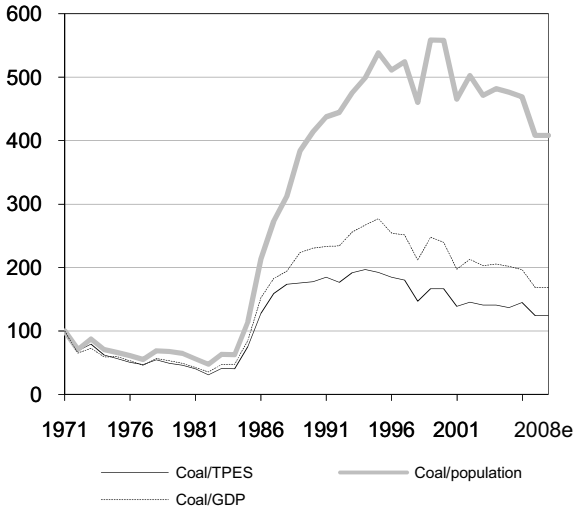


Chart 3: Primary coal supply (Mtce)

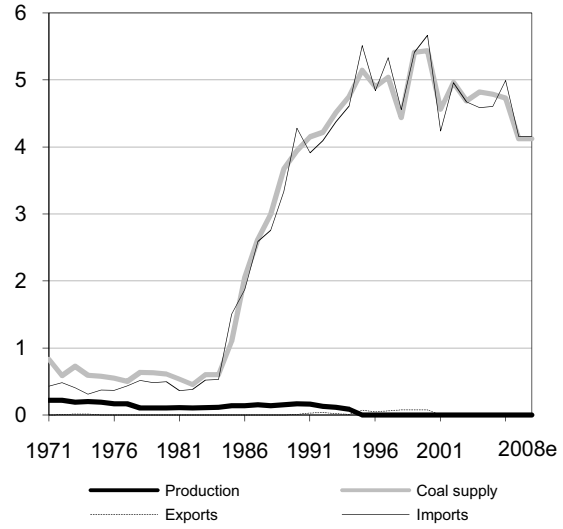


Chart 4: Coal consumption (Mtce)

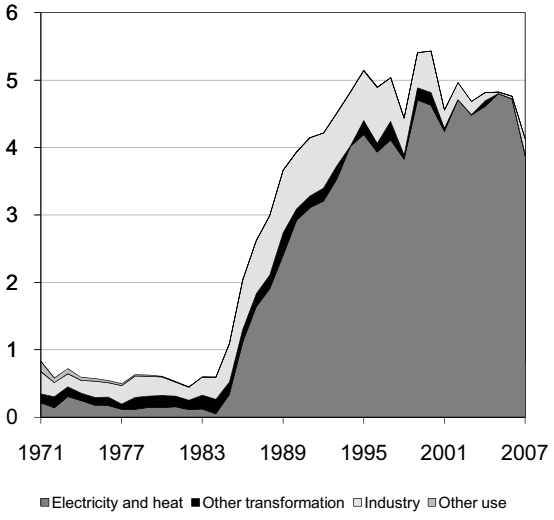


Chart 5: Electricity generation by fuel (TWh)

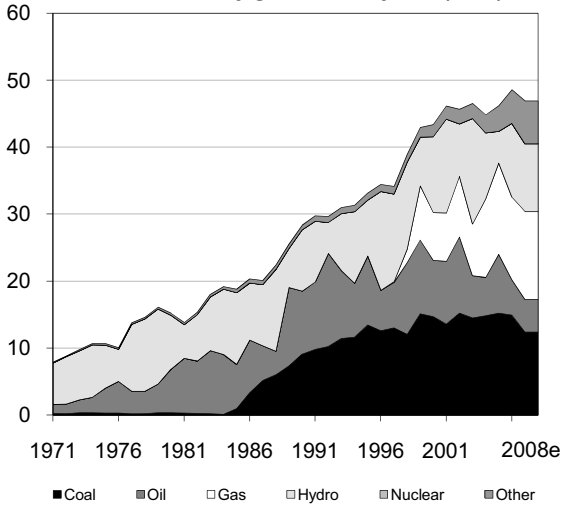
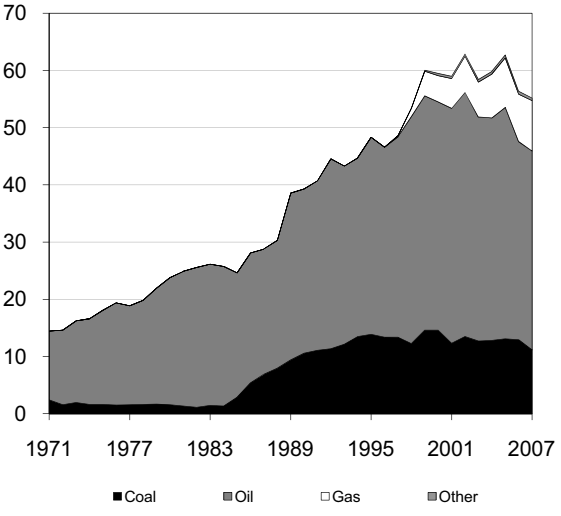


Chart 6: CO_2 emissions by fuel (Mt CO_2)



*Please refer to notes in *Principles and Definitions* . Peat is included in coal for all charts.

Portugal

1. TOTAL PRIMARY ENERGY SUPPLY (TPES) BY FUEL*

	1973	1980	1990	2000	2006	2007	2008e	Average annual percent change 73-90	90-07
TPES (Mtce)	**9.85**	**14.27**	**23.91**	**35.25**	**35.23**	**35.81**	**34.81**	**5.35**	**2.40**
Coal and peat	0.72	0.61	3.94	5.44	4.73	4.12	3.62	10.47	0.27
Oil	7.32	11.42	15.29	21.30	18.45	18.77	17.80	4.43	1.21
Gas	-	-	-	2.90	5.20	5.44	5.92	-	-
Comb. renew/waste	0.91	1.03	3.54	3.96	4.31	4.51	4.47	8.30	1.43
Nuclear	-	-	-	-	-	-	-	-	-
Hydro	0.90	0.98	1.13	1.39	1.35	1.24	0.84	1.32	0.57
Geothermal	-	0.00	0.00	0.10	0.13	0.28	0.25	-	27.28
Solar, wind, tide	-	-	0.02	0.05	0.39	0.54	0.75	-	23.00
Net electricity trade[1]	-0.00	0.22	0.00	0.11	0.67	0.92	1.16	-	36.66
Heat[2]	-	-	-	-	-	-	-	-	-

Source: *IEA/OECD Energy Balances of OECD Countries*

(1) Net trade between OECD and non-OECD countries.

(2) Ambient heat from heat pumps used in the transformation sector.

2. ENERGY SUPPLY, GDP AND POPULATION*

	1973	1980	1990	2000	2006	2007	2008e	Average annual percent change 73-90	90-07
GDP (2000 bil. US$)	50	62	85	113	119	122	122	3.20	2.15
TPES/GDP[1]	0.20	0.23	0.28	0.31	0.30	0.29	0.29	2.09	0.25
Population (millions)	8.7	9.9	10.0	10.2	10.6	10.6	10.5	0.81	0.35
TPES/population[1]	1.13	1.45	2.39	3.45	3.33	3.38	3.32	4.51	2.05
TPES/GDP[2]	63.5	74.1	90.2	100.0	94.4	94.1	91.6	2.09	0.25
Coal and peat supply/GDP[2]	30.3	20.4	96.3	100.0	82.1	70.3	61.7	7.05	-1.83
Elec. consumption/GDP[2]	48.4	68.4	81.6	100.0	117.6	118.4	..	3.12	2.22
Elec. generation (TWh)	10	15	28	43	49	47	45	6.45	3.00
Industrial production[2]	39.7	54.8	87.2	100.0	102.1	104.2	100.0	4.74	1.06

Source: *IEA/OECD Energy Balances of OECD Countries* , *OECD Main Economic Indicators*

(1) TPES/GDP in units of tce/2000 thousand US$, TPES/population in units of tce/capita.

(2) As index, 2000 = 100

3. COAL AND PEAT PRODUCTION BY TYPE*

	1978[1]	1980	1990	2000	2006	2007	2008e	Average annual percent change 78-90	90-07
Mtce:									
Coking coal	-	-	-	-	-	-	-	-	-
Steam coal	0.11	0.10	0.16	-	-	-	-	3.78	-
Brown coal	-	-	-	-	-	-	-	-	-
Peat	-	-	-	-	-	-	-	-	-
Mt:									
Coking coal	-	-	-	-	-	-	-	-	-
Steam coal	0.18	0.18	0.28	-	-	-	-	3.78	-
Brown coal	-	-	-	-	-	-	-	-	-
Peat	-	-	-	-	-	-	-	-	-

Source: *IEA/OECD Energy Balances of OECD Countries, IEA/OECD Energy Statistics of OECD Countries*

(1) Earliest year for which split by coal type is available.

* Please refer to notes in *Principles and Definitions* .

Portugal

4. FINAL CONSUMPTION OF ENERGY BY FUEL*

(Mtce)

	1973	1980	1990	2000	2005	2006	2007	Average annual percent change 73-90	90-07
TFC[1]	**8.19**	**11.30**	**19.07**	**27.77**	**29.19**	**28.10**	**28.72**	**5.09**	**2.44**
Coal and peat	0.27	0.29	0.85	0.62	0.02	0.04	0.24	6.88	-7.17
Oil	6.02	8.24	11.87	17.58	17.53	16.06	16.02	4.08	1.78
Gas	0.07	0.07	0.07	1.19	1.87	1.91	2.06	0.46	21.54
Comb. renew/wastes	0.83	0.91	3.32	3.45	3.58	3.70	3.85	8.52	0.87
Geothermal	-	-	-	0.00	0.00	0.01	0.01	-	-
Solar, wind, tide	-	-	0.02	0.03	0.03	0.03	0.04	-	5.12
Electricity	1.00	1.76	2.89	4.71	5.69	5.87	6.02	6.42	4.41
Heat	-	0.03	0.04	0.19	0.47	0.47	0.48	-	15.68
of which:									
Total industry	**3.32**	**4.76**	**6.65**	**8.93**	**8.13**	**8.13**	**8.41**	**4.17**	**1.39**
Coal and peat	0.20	0.28	0.85	0.62	0.02	0.04	0.24	8.98	-7.16
Oil	2.03	3.00	2.58	3.42	2.27	2.16	2.02	1.41	-1.44
Gas	0.00	0.00	-	0.94	1.37	1.38	1.48	-	-
Comb. renew/wastes	0.46	0.44	1.68	1.81	1.92	1.94	2.00	7.97	1.03
Geothermal	-	-	-	-	-	-	-	-	-
Solar, wind, tide	-	-	-	-	-	-	-	-	-
Electricity	0.63	1.01	1.50	1.96	2.11	2.17	2.21	5.26	2.30
Heat	-	0.03	0.04	0.18	0.45	0.45	0.46	-	15.38
Total transport	**2.28**	**3.23**	**4.63**	**8.53**	**9.08**	**9.13**	**9.09**	**4.26**	**4.04**
Coal and peat	0.03	0.00	-	-	-	-	-	-	-
Oil	2.23	3.20	4.60	8.49	9.01	8.96	8.82	4.35	3.91
Gas	-	-	-	0.00	0.02	0.01	0.02	-	-
Comb. renew/wastes	-	-	-	-	-	0.10	0.19	-	-
Electricity	0.03	0.03	0.04	0.04	0.06	0.06	0.06	2.09	2.83
Residential	**1.15**	**1.47**	**3.26**	**4.01**	**4.58**	**4.57**	**4.59**	**6.30**	**2.03**
Coal and peat	0.05	0.00	0.00	-	-	-	-	-21.02	-
Oil	0.50	0.56	0.83	0.97	0.97	0.95	0.89	3.08	0.39
Gas	0.03	0.03	0.06	0.14	0.29	0.29	0.31	3.75	10.33
Comb. renew/wastes	0.37	0.47	1.64	1.64	1.66	1.66	1.66	9.13	0.05
Geothermal	-	-	-	-	-	-	-	-	-
Solar, wind, tide	-	-	0.01	0.02	0.02	0.02	0.02	-	8.93
Electricity	0.21	0.40	0.73	1.24	1.63	1.65	1.70	7.73	5.13
Heat	-	-	-	0.01	0.01	0.01	0.01	-	-
Comm & public services	**0.36**	**0.62**	**0.86**	**1.99**	**3.12**	**3.09**	**3.15**	**5.26**	**7.95**
Coal and peat	-	0.01	0.00	-	-	-	-	-	-
Oil	0.20	0.29	0.24	0.48	1.13	0.96	0.95	0.95	8.49
Gas	0.02	0.01	0.02	0.10	0.19	0.22	0.24	-0.70	17.50
Comb. renew/waste	-	-	-	-	-	-	-	-	-
Geothermal	-	-	-	0.00	0.00	0.01	0.01	-	-
Solar, wind, tide	-	-	0.01	0.01	0.01	0.01	0.01	-	1.93
Electricity	0.14	0.31	0.59	1.39	1.77	1.87	1.92	8.92	7.14
Heat	-	-	-	0.00	0.01	0.01	0.01	-	-
Non-energy use	**0.54**	**0.74**	**3.00**	**3.29**	**3.47**	**2.71**	**3.11**	**10.63**	**0.20**
Coal and peat	-	-	-	-	-	-	-	-	-
Oil	0.54	0.74	3.00	3.29	3.47	2.71	3.11	10.63	0.20
Gas	-	-	-	-	-	-	-	-	-

Source: *IEA/OECD Energy Balances of OECD Countries*

(1) Total Final Consumption (TFC) excludes use in transformation and energy sectors.

* Please refer to notes in *Principles and Definitions*.

Portugal

5. COAL BALANCE*

(Mtce)

	1973	1980	1990	2000	2006	2007	2008e	Average annual percent change 73-90	90-07
Production	0.2	0.1	0.2	-	-	-	-	-0.8	-
Imports	0.4	0.5	4.3	5.7	5.0	4.2	3.3	14.9	-0.2
Exports	-0.0	-	-0.0	-0.1	-0.0	-0.0	-0.0	-2.2	0.9
Stock changes	0.1	0.0	-0.5	-0.2	-0.3	-0.0	0.3	x	x
Primary supply	**0.7**	**0.6**	**3.9**	**5.4**	**4.7**	**4.1**	**3.6**	**10.5**	**0.3**
Statistical difference	**0.1**	**0.0**	**-0.0**	**-0.0**	**0.0**	**-0.0**	**..**	**x**	**x**
Total transformation	**-0.5 e**	**-0.3 e**	**-3.0 e**	**-4.8 e**	**-4.7**	**-3.9**	**..**	**11.7**	**1.4**
Electricity and heat gen.	-0.3	-0.1	-2.9	-4.6	-4.7	-3.9	..	14.1	1.7
Main activity producers (1)	*-0.3*	*-0.1*	*-2.9*	*-4.6*	*-4.7*	*-3.9*	*..*	*14.1*	*1.7*
Autoproducers	-	*-0.0*	*-0.0*	*-0.1*	-	-	*..*	-	-
Gas works	-	-	-	-	-	-	..	-	-
Coal transformation(2)	-0.2 e	-0.1 e	-0.1 e	-0.1 e	-	-	..	-1.5	-
BKB plants	-	-	-	-	-	-	*..*	-	-
Blast furnaces	*-0.1 e*	*-0.1 e*	*-0.1 e*	*-0.1 e*	-	-	*..*	*-2.3*	-
Coke ovens	*-0.0*	*-0.0*	*-0.0*	*-0.0*	-	-	*..*	*-0.1*	-
Patent fuel plants	*0.0*	-	-	-	-	-	*..*	-	-
Other transformation(3)	-	-	-	-	-	-	..	-	-
Own use	**-0.0**	**-0.0**	**-0.0**	**-0.0**	**-**	**-**	**..**	**0.5**	**-**
Distribution losses	**-0.0**	**-0.0**	**-0.0**	**-0.0**	**-**	**-**	**..**	**x**	**x**
Final consumption(4)	**0.3**	**0.3**	**0.8**	**0.6**	**0.0**	**0.2**	**..**	**6.9**	**-7.2**
Industry sector(5)	0.2	0.3	0.8	0.6	0.0	0.2	..	9.0	-7.2
Iron and steel	*0.1 e*	*0.2 e*	*0.1 e*	*0.1 e*	-	*0.0*	*..*	*0.9*	*-13.0*
Chemical	-	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*..*	-	*1.8*
Non-metallic minerals	*0.0*	*0.0*	*0.7*	*0.4*	*0.0*	*0.2*	*..*	*26.6*	*-6.9*
Paper, pulp and print	-	-	-	-	-	-	*..*	-	-
Transport sector(6)	0.0	0.0	-	-	-	-	..	-	-
Other sectors(7)	0.1	0.0	0.0	-	-	-	..	-17.7	-
Comm. and pub. services	-	*0.0*	*0.0*	-	-	-	*..*	-	-
Residential	*0.1*	*0.0*	*0.0*	-	-	-	*..*	*-21.0*	-
Non-energy use	-	-	-	-	-	-	..	-	-

Source: *IEA/OECD Energy Balances of OECD Countries*

(1) Main activity electricity and heat generation includes district heating.

(2) Coal transformation refers to the transformation of coal and peat to secondary and tertiary products (mainly coke, briquettes, coke oven gas and blast furnace gas).

(3) Other transformation includes liquefaction and non-specified transformation.

(4) Final Consumption includes non-energy use and energy use (industry, transport and other sectors).

(5) Please refer to notes in *Principles and Definitions* for detailed explanation.

(6) Transport sector includes rail and inland waterways.

(7) Other sectors includes commercial and public services, agriculture, and residential.

* "Coal" refers to all types of coal, primary (anthracite, coking coal, other bituminous coal, sub-bituminous coal, lignite/brown coal, peat) and derived fuels (including patent fuel, BKB/peat briquettes, coke oven coke, gas coke, coal tar, coke oven gas, gas works gas, blast furnace gas and oxygen steel furnace gas). Quantities have been converted to Mtce using calorific values reported by the respective countries. Please refer to notes in *Principles and Definitions*.

Portugal

6. USE OF COAL FOR SELECTED END-USES*

(million tonnes)

	1978	1980	1990	2000	2005	2006	2007	Average annual percent change 78-90	90-07
Steam coal	**0.21**	**0.24**	**4.08**	**5.66**	**5.48**	**5.47**	**4.74**	**28.21**	**0.88**
Total electricity and heat	0.17	0.21	3.26	5.17	5.44	5.42	4.44	27.90	1.84
Main activity producers	*0.17*	*0.21*	*3.26*	*5.17*	*5.44*	*5.42*	*4.44*	*27.90*	*1.84*
Autoproducers	-	-	-	-	-	-	-	-	-
Patent fuel/BKB plants	-	-	-	-	-	-	-	-	-
Coke ovens	-	-	-	-	-	-	-	-	-
Blast furnace inputs	-	-	-	-	-	-	-	-	-
Gas manufacture	-	-	-	-	-	-	-	-	-
Industry sector	0.04	0.03	0.82	0.48	0.02	0.04	0.28	29.73	-6.15
Iron and steel	*0.01*	*0.00*	-	-	-	-	*0.01*	-	-
Chemical	*0.00*	*0.00*	*0.01*	-	*0.02*	*0.02*	*0.02*	*6.99*	*3.81*
Non-metallic minerals	*0.03*	*0.02*	*0.81*	*0.48*	-	*0.01*	*0.25*	*32.70*	*-6.67*
Paper, pulp and print	-	-	-	-	-	-	-	-	-
Other industry	-	*0.00*	*0.00*	-	-	-	*0.00*	-	*-7.83*
Res, comm & pub serv[(1)]	-	-	0.00	-	-	-	-	-	-
Non-energy use	-	-	-	-	-	-	-	-	-
Coking coal	**0.42**	**0.36**	**0.31**	**0.50**	**-**	**-**	**-**	**-2.48**	**-**
Total electricity and heat	0.00	-	-	-	-	-	-	-	-
Main activity producers	*0.00*	-	-	-	-	-	-	-	-
Autoproducers	-	-	-	-	-	-	-	-	-
Patent fuel/BKB plants	-	-	-	-	-	-	-	-	-
Coke ovens	0.34	0.31	0.31	0.49	-	-	-	-0.59	-
Blast furnace inputs	-	-	-	-	-	-	-	-	-
Gas manufacture	-	-	-	-	-	-	-	-	-
Industry sector	0.06	0.06	-	-	-	-	-	-	-
Iron and steel	-	-	-	-	-	-	-	-	-
Chemical	-	-	-	-	-	-	-	-	-
Non-metallic minerals	-	-	-	-	-	-	-	-	-
Paper, pulp and print	-	-	-	-	-	-	-	-	-
Other industry	*0.06*	*0.06*	-	-	-	-	-	-	-
Res, comm & pub serv[(1)]	0.01	0.01	-	-	-	-	-	-	-
Non-energy use	-	-	-	-	-	-	-	-	-
Brown coal/lignite	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
Total electricity and heat	-	-	-	-	-	-	-	-	-
Main activity producers	-	-	-	-	-	-	-	-	-
Autoproducers	-	-	-	-	-	-	-	-	-
Patent fuel/BKB plants	-	-	-	-	-	-	-	-	-
Coke ovens	-	-	-	-	-	-	-	-	-
Gas manufacture	-	-	-	-	-	-	-	-	-
Industry sector	-	-	-	-	-	-	-	-	-
Iron and steel	-	-	-	-	-	-	-	-	-
Chemical	-	-	-	-	-	-	-	-	-
Non-metallic minerals	-	-	-	-	-	-	-	-	-
Paper, pulp and print	-	-	-	-	-	-	-	-	-
Other industry	-	-	-	-	-	-	-	-	-
Res, comm & pub serv[(1)]	-	-	-	-	-	-	-	-	-
Non-energy use	-	-	-	-	-	-	-	-	-

Source: *IEA/OECD Energy Statistics of OECD Countries*

(1) Residential, commercial and public services.

* Please refer to notes in *Principles and Definitions*.

Portugal

7. FUEL PRICES TO END USERS*

	1978[1]	1980	1990	2000	2004	2005	2006	2007	2008
				(US dollars / tce)					
For electricity generation									
Steam coal	31.26	44.39	58.90	34.67	65.92	77.51	66.84	87.61	158.38
Heavy fuel oil	48.18	94.94	76.31	108.41	134.54	158.83	226.75	256.80	348.80
Natural gas	x	x	x	..	188.25	226.98	276.16	288.68	403.88
For industry									
Steam coal	..	..	..	37.98	..	..	..	..	..
Coking coal	175.90	243.16	52.51	31.67	..	..	..	..	..
High sulphur fuel oil	54.80	102.26	131.62	161.36	x	x	x	x	x
Low sulphur fuel oil	..	..	..	170.14	216.14	282.61	353.37	428.51	575.78
Natural gas	x	x	x	..	222.29	264.71	310.31	355.95	413.72
				(Euro / unit)[2]					
For electricity generation									
Steam coal	5.97	9.64	36.47	32.81	46.28	54.42	46.46	55.78	94.48
Heavy fuel oil	14.47	32.42	74.30	161.32	148.53	175.35	247.84	257.09	327.20
Natural gas	x	x	x	..	194.84	234.93	282.98	270.95	355.18
For industry									
Steam coal	..	..	..	35.94	..	..	..	..	..
Coking coal	38.51	60.53	37.27	34.35	..	..	..	..	..
High sulphur fuel oil	16.46	34.92	128.16	240.10	x	x	x	x	x
Low sulphur fuel oil	..	..	..	253.17	238.62	312.00	386.25	429.00	540.11
Natural gas	x	x	x	..	230.07	273.98	317.98	334.09	363.83

Source: *IEA/OECD Energy Prices & Taxes*

(1) Earliest year for which split by coal type is available.

(2) For steam coal, coking coal and heavy fuel oil per metric tonne; for natural gas per 10^7 kilocalories GCV.

* Please refer to notes in *Principles and Definitions*.

8. COAL TRADE BY TYPE OF COAL*

(Mtce)

	1973	1980	1990	2000	2004	2005	2006	2007	2008e
Total imports	**0.41**	**0.50**	**4.28**	**5.67**	**4.59**	**4.61**	**5.00**	**4.16**	**3.33**
Hard coal	0.37	0.40	4.27	5.67	4.58	4.60	5.00	4.16	3.33
Coking coal	*..*	*0.39*	*0.38*	*0.49*	-	-	-	-	-
Steam coal	*..*	*0.01*	*3.89*	*5.18*	*4.58*	*4.60*	*5.00*	*4.16*	*3.33*
Brown coal / lignite	-	-	-	-	-	-	-	-	-
Peat	-	-	-	-	-	-	-	-	-
Coal products[1]	0.04	0.10	0.01	-	0.01	0.01	-	0.00	0.00
Total exports	**0.02**	**-**	**0.01**	**0.08**	**-**	**-**	**0.01**	**0.01**	**0.04**
Hard coal	-	-	-	-	-	-	0.01	0.01	0.04
Coking coal	*..*	-	-	-	-	-	-	-	-
Steam coal	*..*	-	-	-	-	-	*0.01*	*0.01*	*0.04*
Brown coal / lignite	-	-	-	-	-	-	-	-	-
Peat	-	-	-	-	-	-	-	-	-
Coal products[1]	0.02	-	0.01	0.08	-	-	-	-	-

Source: *IEA/OECD Energy Balances of OECD Countries, IEA/OECD Energy Statistics of OECD Countries*

(1) Coal products includes products derived from coal, for example: coke, coal tar, briquettes, patent fuels.

* Please refer to notes in *Principles and Definitions*.

Portugal

9. HARD COAL IMPORTS BY ORIGIN*

(thousand tonnes)

	1978[1]	1980	1990	2000	2004	2005	2006	2007	2008e
Hard Coal	**412**	**398**	**4669**	**6367**	**5247**	**5272**	**5782**	**4782**	**3829**
Coking Coal	**404**	**393**	**377**	**487**	**-**	**-**	**-**	**-**	**-**
Australia	-	-	-	-	-	-	-	-	-
Canada	-	-	162	289	-	-	-	-	-
Czech Republic	-	-	-	-	-	-	-	-	-
Germany	8	1	-	-	-	-	-	-	-
Poland	122	120	40	-	-	-	-	-	-
United Kingdom	3	-	20	-	-	-	-	-	-
United States	257	255	155	198	-	-	-	-	-
Other OECD	-	10	-	-	-	-	-	-	-
China, People's Rep.	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-
South Africa	-	-	-	-	-	-	-	-	-
Former USSR[2]	-	-	-	-	-	-	-	-	-
Russia[3]	-	-	-	-	-	-	-	-	-
Other Former USSR[3]	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-
Non-specified/other	14	7	-	-	-	-	-	-	-
Steam coal	**8**	**5**	**4292**	**5880**	**5247**	**5272**	**5782**	**4782**	**3829**
Australia	-	-	-	-	129	-	-	-	-
Canada	-	-	-	-	-	-	-	-	-
Czech Republic	-	-	-	-	-	-	-	-	-
Germany	3	-	-	-	-	-	-	-	-
Poland	-	-	-	-	-	222	-	-	-
United Kingdom	-	2	177	-	-	-	-	-	3
United States	-	-	1555	343	467	378	202	389	273
Other OECD	-	-	4	19	306	228	160	223	228
China, People's Rep.	-	-	-	-	-	-	-	-	-
Colombia	-	-	390	2846	2817	2314	3239	2403	2015
Indonesia	-	-	-	156	159	144	473	60	153
South Africa	5	3	2112	2426	1369	1985	1681	1551	1101
Former USSR[2]	-	-	-	-	-	-	-	-	-
Russia[3]	-	-	*54*	*90*	-	-	*22*	*126*	*21*
Other Former USSR[3]	-	-	-	-	-	*1*	*5*	*30*	*35*
Venezuela	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-
Non-specified/other	-	-	-	-	-	-	-	-	-

Source: IEA/OECD Coal Statistics

(1) Earliest year for which split by coal type is available.

(2) If no detail.

(3) Data for former republics are not available separately for some OECD member countries.

* Please refer to notes in *Principles and Definitions*.

Portugal

12. COAL IMPORT VALUES BY ORIGIN*

(average unit value, CIF, US$/tonne)

	1988	1990	1995	2003	2004	2005	2006	2007	2008
Coking coal[1]	**52.73**	**75.65**	**55.35**	**185.30**	**241.41**	**231.71**	**105.53**	**360.89**	**..**
Imports from:									
Australia	50.20	..	51.91	..	..	..	..	..	..
Canada	51.91	73.86	56.95	..	..	..	..	..	..
Czech Republic	..	..	..	..	..	..	..	..	..
Poland	58.18	57.60	57.64	..	..	..	..	..	..
United States	56.59	63.00	..	..	..	..	..	..	..
China	..	..	..	..	..	..	..	..	..
Colombia	..	..	..	..	..	..	..	..	..
South Africa	..	..	..	..	..	..	..	..	..
Former USSR[2]	..	..	..	..	..	..	..	..	..
Steam coal[3]	**49.75**	**54.62**	**44.77**	**37.74**	**59.36**	**64.49**	**58.25**	**77.76**	**139.87**
Imports from:									
Australia	49.03	..	44.95	40.29	60.28	..	..	..	..
Canada	..	..	..	..	..	..	..	..	..
Czech Republic	..	..	..	..	..	..	..	..	..
Poland	..	..	39.36	40.36	..	61.53	..	..	..
United States	56.62	59.44	47.42	42.98	60.84	62.53	68.83	91.17	98.21
China	..	..	..	..	..	..	..	..	..
Colombia	40.26	54.07	42.91	37.09	63.88	64.93	58.48	76.29	134.97
South Africa	43.76	49.05	44.07	36.55	55.05	63.24	56.56	76.81	157.27
Former USSR[2]	..	45.19	42.86	..	..	..	..	..	..

Source: IEA/OECD Coal Statistics

Note: On occasion, shipment of extremely small quantities of high valued coal results in high import costs.

(1) Weighted average of individual countries using import volumes as weights. Prices exclude intra-EU trade.

(2) Former USSR until 1991, Russia starting in 1992.

(3) Bituminous steam coal only. Weighted average of individual countries using volumes as weights. Prices exclude intra-EU trade.

* Please refer to notes in *Principles and Definitions*.

Slovak Republic*

Chart 1: TPES by fuel (Mtce)

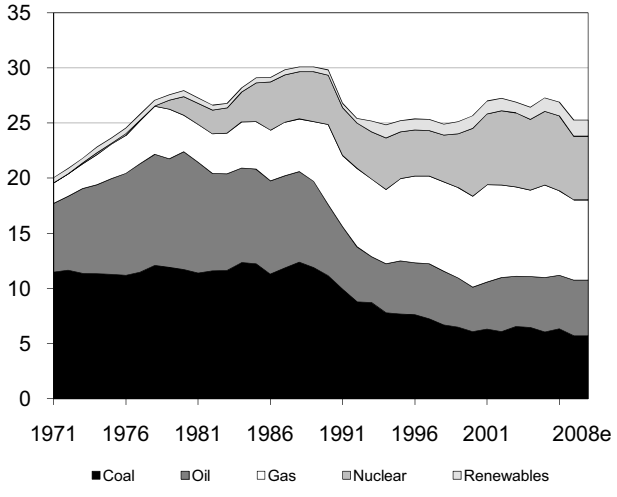


Chart 2: Coal supply indicators (1971 = 100)

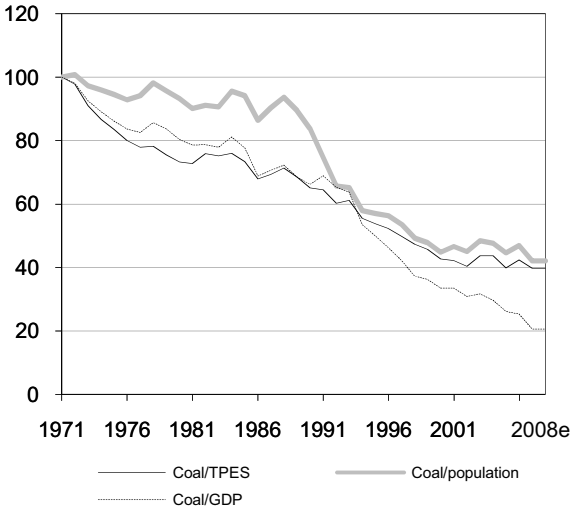


Chart 3: Primary coal supply (Mtce)

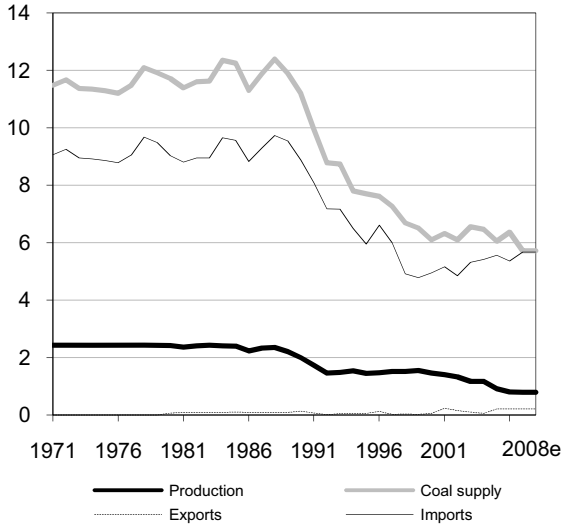


Chart 4: Coal consumption (Mtce)

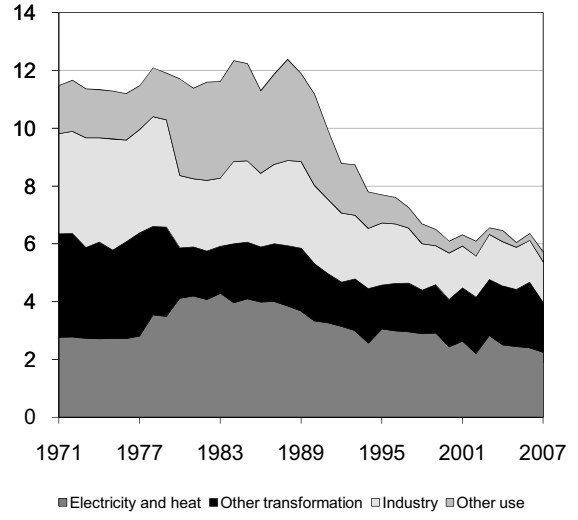


Chart 5: Electricity generation by fuel (TWh)

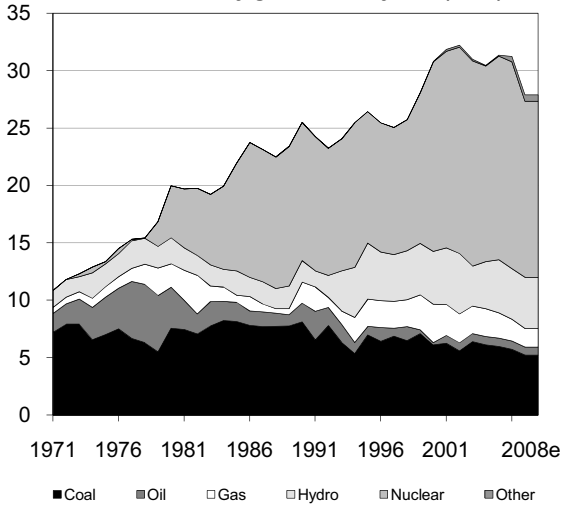
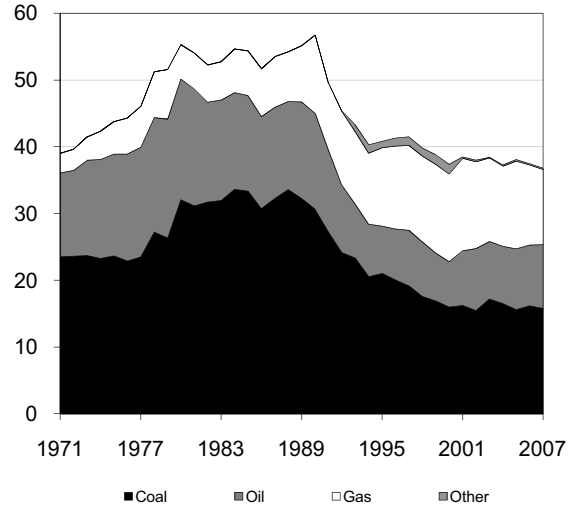


Chart 6: CO_2 emissions by fuel (Mt CO_2)



*Please refer to notes in *Principles and Definitions* . Peat is included in coal for all charts.

Slovak Republic

1. TOTAL PRIMARY ENERGY SUPPLY (TPES) BY FUEL*

	1973	1980	1990	2000	2006	2007	2008e	Average annual percent change 73-90	90-07
TPES (Mtce)	**22.17**	**28.36**	**30.47**	**25.35**	**26.63**	**25.50**	**25.99**	**1.89**	**-1.04**
Coal and peat	11.37	11.71	11.19	6.10	6.37	5.72	5.66	-0.10	-3.87
Oil	7.70	10.71	6.42	4.03	4.83	5.05	5.28	-1.07	-1.39
Gas	2.23	3.31	7.27	8.25	7.68	7.27	7.37	7.20	0.00
Comb. renew/waste	0.27	0.26	0.25	0.59	0.70	0.90	0.78	-0.47	7.87
Nuclear	0.09	1.68	4.48	6.14	6.78	5.78	6.31	26.15	1.51
Hydro	0.16	0.28	0.23	0.57	0.54	0.55	0.51	2.09	5.20
Geothermal	-	-	-	-	0.01	0.01	0.02	-	-
Solar, wind, tide	-	-	-	-	0.00	0.00	0.00	-	-
Net electricity trade[1]	0.35	0.41	0.64	-0.33	-0.29	0.21	0.06	3.62	-6.28
Heat[2]	-	-	-	-	0.00	0.00	0.00	-	-

Source: *IEA/OECD Energy Balances of OECD Countries*

(1) Net trade between OECD and non-OECD countries.

(2) Ambient heat from heat pumps used in the transformation sector.

2. ENERGY SUPPLY, GDP AND POPULATION*

	1973	1980	1990	2000	2006	2007	2008e	Average annual percent change 73-90	90-07
GDP (2000 bil. US$)	14 e	16 e	19 e	20	28	31	33	1.89	2.96
TPES/GDP[1]	1.61 e	1.74 e	1.61 e	1.24	0.95	0.82	0.79	0.00	-3.89
Population (millions)	4.6	5.0	5.3	5.4	5.4	5.4	5.4	0.78	0.11
TPES/population[1]	4.78	5.69	5.75	4.69	4.94	4.72	4.81	1.10	-1.15
TPES/GDP[2]	129.6 e	139.7 e	129.6 e	100.0	76.2	66.1	63.4	0.00	-3.89
Coal and peat supply/GDP[2]	276.2 e	239.7 e	197.7 e	100.0	75.7	61.6	57.3	-1.95	-6.63
Elec. consumption/GDP[2]	82.9 e	107.9 e	114.7 e	100.0	77.9	73.3	..	1.93	-2.60
Elec. generation (TWh)	12	20	25	31	31	28	29	4.38	0.53
Industrial production[2]	..	..	112.2	100.0	145.6	168.8	177.1	-	2.43

Source: *IEA/OECD Energy Balances of OECD Countries* , *OECD Main Economic Indicators*

(1) TPES/GDP in units of tce/2000 thousand US$, TPES/population in units of tce/capita.

(2) As index, 2000 = 100

3. COAL AND PEAT PRODUCTION BY TYPE*

	1978[1]	1980	1990	2000	2006	2007	2008e	Average annual percent change 78-90	90-07
Mtce:									
Coking coal	-	-	-	-	-	-	-	-	-
Steam coal	-	-	-	-	-	-	-	-	-
Brown coal	2.43	2.42	2.00	1.45	0.80	0.79	0.90	-1.62	-5.33
Peat	-	-	-	-	-	-	-	-	-
Mt:									
Coking coal	-	-	-	-	-	-	-	-	-
Steam coal	-	-	-	-	-	-	-	-	-
Brown coal	5.80	5.80	4.77	3.65	2.20	2.11	2.42	-1.63	-4.68
Peat	-	-	-	-	-	-	-	-	-

Source: *IEA/OECD Energy Balances of OECD Countries, IEA/OECD Energy Statistics of OECD Countries*

(1) Earliest year for which split by coal type is available.

* Please refer to notes in *Principles and Definitions* .

Slovak Republic

4. FINAL CONSUMPTION OF ENERGY BY FUEL*

(Mtce)

	1973	1980	1990	2000	2005	2006	2007	Average annual percent change 73-90	90-07
TFC[1]	**15.51**	**18.61**	**22.50**	**16.02**	**16.73**	**16.27**	**16.47**	**2.21**	**-1.82**
Coal and peat	5.49	5.84	5.88	2.02	1.63	1.69	1.76	0.40	-6.86
Oil	5.47	7.20	6.99	4.30	4.28	4.30	4.50	1.44	-2.56
Gas	2.01	2.33	5.59	5.95	6.16	5.71	5.46	6.22	-0.14
Comb. renew/wastes	0.27	0.26	0.25	0.16	0.49	0.48	0.68	-0.47	6.08
Geothermal	-	-	-	-	0.00	0.00	0.00	-	-
Solar, wind, tide	-	-	-	-	-	-	-	-	-
Electricity	1.51	2.34	2.88	2.70	2.81	2.91	3.02	3.85	0.28
Heat	0.75	0.64	0.93	0.88	1.36	1.18	1.06	1.22	0.80
of which:									
Total industry	**8.06**	**9.06**	**8.69**	**4.90**	**5.18**	**5.09**	**5.23**	**0.45**	**-2.95**
Coal and peat	3.80	2.50	2.71	1.60	1.46	1.45	1.40	-1.96	-3.80
Oil	2.07	4.03	1.96	0.31	0.45	0.36	0.36	-0.31	-9.52
Gas	0.88	0.65	1.90	1.60	1.38	1.36	1.40	4.67	-1.81
Comb. renew/wastes	0.27	0.26	0.25	0.16	0.42	0.37	0.48	-0.47	4.01
Geothermal	-	-	-	-	-	-	-	-	-
Solar, wind, tide	-	-	-	-	-	-	-	-	-
Electricity	1.02	1.58	1.84	1.20	1.36	1.46	1.50	3.53	-1.22
Heat	0.03	0.02	0.03	0.03	0.12	0.09	0.09	-0.84	7.68
Total transport	**2.39**	**2.15**	**2.07**	**2.05**	**3.35**	**3.15**	**3.46**	**-0.86**	**3.08**
Coal and peat	-	-	-	-	-	-	-	-	-
Oil	2.32	1.73	1.92	1.93	2.41	2.42	2.60	-1.09	1.80
Gas	-	0.30	-	-	0.86	0.59	0.65	-	-
Comb. renew/wastes	-	-	-	-	0.01	0.06	0.13	-	-
Electricity	0.08	0.12	0.14	0.12	0.07	0.07	0.07	3.65	-3.96
Residential	**1.03**	**1.64**	**3.21**	**3.69**	**3.63**	**3.30**	**2.97**	**6.89**	**-0.45**
Coal and peat	-	0.29	0.62	0.08	0.07	0.07	0.06	-	-12.88
Oil	0.02	0.03	0.05	0.02	0.01	0.02	0.02	4.98	-6.09
Gas	0.30	0.59	1.56	2.35	2.02	1.83	1.59	10.10	0.10
Comb. renew/wastes	-	-	-	0.00 e	0.05	0.04	0.06	-	-
Geothermal	-	-	-	-	-	-	-	-	-
Solar, wind, tide	-	-	-	-	-	-	-	-	-
Electricity	0.19	0.29	0.45	0.67	0.58	0.56	0.57	5.24	1.33
Heat	0.52	0.44	0.53	0.58 e	0.89	0.78	0.69	0.07	1.60
Comm & public services	**0.77**	**3.95**	**5.22**	**3.14**	**2.50**	**2.68**	**2.67**	**11.89**	**-3.86**
Coal and peat	-	2.65	2.36	0.27	0.04	0.11	0.22	-	-13.08
Oil	-	0.41	0.34	0.02	0.07	0.06	0.01	-	-17.09
Gas	0.47	0.54	1.90	1.94	1.29	1.42	1.32	8.53	-2.11
Comb. renew/waste	-	-	-	0.00	0.00	0.01	0.00	-	-
Geothermal	-	-	-	-	0.00	0.00	0.00	-	-
Solar, wind, tide	-	-	-	-	-	-	-	-	-
Electricity	0.13	0.20	0.30	0.65	0.76	0.77	0.84	5.04	6.33
Heat	0.17	0.15	0.33	0.26 e	0.34	0.31	0.28	3.86	-1.05
Non-energy use	**0.70**	**0.36**	**2.29**	**1.95**	**1.83**	**1.85**	**1.94**	**7.20**	**-0.98**
Coal and peat	-	0.05	0.05	0.05	0.05	0.06	0.07	-	2.49
Oil	0.40	0.11	2.25	1.90	1.22	1.33	1.40	10.64	-2.73
Gas	0.30	0.20	-	-	0.55	0.46	0.47	-	-

Source: *IEA/OECD Energy Balances of OECD Countries*

(1) Total Final Consumption (TFC) excludes use in transformation and energy sectors.

* Please refer to notes in *Principles and Definitions*.

Slovak Republic

5. COAL BALANCE*

(Mtce)

	1973	1980	1990	2000	2006	2007	2008e	Average annual percent change 73-90	90-07
Production	2.4	2.4	2.0	1.5	0.8	0.8	0.9	-1.1	-5.3
Imports	8.9	9.0	8.9	5.0	5.4	5.7	5.4	-0.0	-2.6
Exports	-	-0.1	-0.1	-0.1	-0.2	-0.2	-0.3	-	2.8
Stock changes	-	0.3	0.5	-0.2	0.4	-0.5	-0.3	x	x
Primary supply	**11.4**	**11.7**	**11.2**	**6.1**	**6.4**	**5.7**	**5.7**	**-0.1**	**-3.9**
Statistical difference	**-1.9**	**-0.1**	**-0.0**	**0.0**	**-0.1**	**0.0**	**..**	**x**	**x**
Total transformation	**-4.0 e**	**-5.1 e**	**-4.6 e**	**-3.6 e**	**-3.8 e**	**-3.3 e**	**..**	**0.8**	**-1.9**
Electricity and heat gen.	-2.7	-4.1	-3.3	-2.4	-2.4	-2.2	..	1.2	-2.3
Main activity producers (1)	*-2.7*	*-3.5*	*-2.9*	*-2.1*	*-2.1*	*-2.0*	..	*0.3*	*-2.0*
Autoproducers	-	*-0.6*	*-0.5*	*-0.3*	*-0.3*	*-0.2*	..	-	*-4.1*
Gas works	-	-	-	-	-	-	..	-	-
Coal transformation(2)	-1.3 e	-1.0 e	-1.3 e	-1.2 e	-1.4 e	-1.1 e	..	0.1	-0.9
BKB plants	-	-	-	-	-	-	..	-	-
Blast furnaces	*-0.6 e*	*-0.9 e*	*-1.2 e*	*-1.0 e*	*-1.4 e*	*-1.1 e*	..	*4.4*	*-0.7*
Coke ovens	*-0.7*	*-0.1*	*-0.1*	*-0.2*	*-0.0*	*-0.0*	..	*-11.8*	*-6.6*
Patent fuel plants	-	-	-	-	-	-	..	-	-
Other transformation(3)	-	-	-	-	-	-	..	-	-
Own use	**-**	**-0.6**	**-0.6**	**-0.4**	**-0.6**	**-0.6**	**..**	**-**	**-0.6**
Distribution losses	**-0.0**	**-0.0**	**-0.0**	**-0.0**	**-0.2**	**-0.1**	**..**	**x**	**x**
Final consumption(4)	**5.5**	**5.8**	**5.9**	**2.0**	**1.7**	**1.8**	**..**	**0.4**	**-6.9**
Industry sector(5)	3.8	2.5	2.7	1.6	1.5	1.4	..	-2.0	-3.8
Iron and steel	*1.5 e*	*1.0 e*	*1.4 e*	*1.0 e*	*1.1 e*	*1.1 e*	..	*-0.4*	*-1.7*
Chemical	-	*0.3*	*0.3*	*0.1*	*0.0*	-	..	-	-
Non-metallic minerals	-	*0.2*	*0.2*	*0.2*	*0.2*	*0.2*	..	-	*0.1*
Paper, pulp and print	-	*0.2*	*0.2*	*0.2*	*0.1*	*0.1*	..	-	*-3.7*
Transport sector(6)	-	-	-	-	-	-	..	-	-
Other sectors(7)	1.7	3.3	3.1	0.4	0.2	0.3	..	3.6	-13.2
Comm. and pub. services	-	*2.7*	*2.4*	*0.3*	*0.1*	*0.2*	..	-	*-13.1*
Residential	-	*0.3*	*0.6*	*0.1*	*0.1*	*0.1*	..	-	*-12.9*
Non-energy use	-	0.0	0.0	0.0	0.1	0.1	..	-	2.5

Source: *IEA/OECD Energy Balances of OECD Countries*

(1) Main activity electricity and heat generation includes district heating.

(2) Coal transformation refers to the transformation of coal and peat to secondary and tertiary products (mainly coke, briquettes, coke oven gas and blast furnace gas).

(3) Other transformation includes liquefaction and non-specified transformation.

(4) Final Consumption includes non-energy use and energy use (industry, transport and other sectors).

(5) Please refer to notes in *Principles and Definitions* for detailed explanation.

(6) Transport sector includes rail and inland waterways.

(7) Other sectors includes commercial and public services, agriculture, and residential.

* "Coal" refers to all types of coal, primary (anthracite, coking coal, other bituminous coal, sub-bituminous coal, lignite/brown coal, peat) and derived fuels (including patent fuel, BKB/peat briquettes, coke oven coke, gas coke, coal tar, coke oven gas, gas works gas, blast furnace gas and oxygen steel furnace gas). Quantities have been converted to Mtce using calorific values reported by the respective countries. Please refer to notes in *Principles and Definitions*.

Slovak Republic

6. USE OF COAL FOR SELECTED END-USES*

(million tonnes)

	1978	1980	1990	2000	2005	2006	2007	Average annual percent change 78-90	90-07
Steam coal	**3.97**	**3.04**	**2.74**	**2.06**	**2.25**	**2.30**	**2.17**	**-3.04**	**-1.38**
Total electricity and heat	2.21	2.03	1.98	1.33	1.54	1.54	1.29	-0.91	-2.50
Main activity producers	*2.21*	*1.77*	*1.68*	*1.12*	*1.33*	*1.36*	*1.13*	*-2.25*	*-2.32*
Autoproducers	-	*0.26*	*0.30*	*0.21*	*0.21*	*0.18*	*0.16*	-	*-3.59*
Patent fuel/BKB plants	-	-	-	-	-	-	-	-	-
Coke ovens	-	-	-	-	-	-	-	-	-
Blast furnace inputs	-	-	-	-	-	-	-	-	-
Gas manufacture	-	-	-	-	-	-	-	-	-
Industry sector	1.24	0.84	0.65	0.68	0.70	0.70	0.67	-5.27	0.19
Iron and steel	-	*0.58*	*0.39*	*0.36*	*0.46*	*0.48*	*0.42*	-	*0.45*
Chemical	-	*0.00*	*0.01*	-	-	-	-	-	-
Non-metallic minerals	-	*0.13*	*0.12*	*0.20*	*0.17*	*0.16*	*0.18*	-	*2.30*
Paper, pulp and print	-	*0.02*	*0.03*	*0.11*	*0.06*	*0.06*	*0.06*	-	*4.46*
Other industry	*1.24*	*0.11*	*0.10*	*0.01*	*0.01*	*0.01*	*0.01*	*-19.12*	*-16.01*
Res, comm & pub serv[(1)]	-	0.17	0.10	0.05	0.00	0.05	0.20	-	4.13
Non-energy use	-	-	-	-	-	0.01	0.02	-	-
Coking coal	**2.18**	**2.34**	**3.14**	**2.60**	**2.74**	**2.85**	**2.85**	**3.08**	**-0.55**
Total electricity and heat	-	-	-	-	-	-	-	-	-
Main activity producers	-	-	-	-	-	-	-	-	-
Autoproducers	-	-	-	-	-	-	-	-	-
Patent fuel/BKB plants	-	-	-	-	-	-	-	-	-
Coke ovens	2.15	2.05	2.92	2.21	2.35	2.38	2.39	2.56	-1.18
Blast furnace inputs	-	0.28	0.18	0.35	0.38	0.47	0.47	-	5.85
Gas manufacture	-	-	-	-	-	-	-	-	-
Industry sector	0.03	0.01	0.04	0.04	0.01	-	-	3.54	-
Iron and steel	-	*0.01*	*0.04*	*0.04*	*0.01*	-	-	-	-
Chemical	-	-	-	-	-	-	-	-	-
Non-metallic minerals	-	-	-	-	-	-	-	-	-
Paper, pulp and print	-	-	-	-	-	-	-	-	-
Other industry	*0.03*	-	-	-	-	-	-	-	-
Res, comm & pub serv[(1)]	-	-	-	-	-	-	-	-	-
Non-energy use	-	-	-	-	-	-	-	-	-
Brown coal/lignite	**13.36**	**16.04**	**12.48**	**4.21**	**3.31**	**3.17**	**2.94**	**-0.57**	**-8.16**
Total electricity and heat	3.98	5.59	3.74	3.03	2.86	2.66	2.52	-0.52	-2.29
Main activity producers	*3.98*	*4.83*	*3.43*	*2.89*	*2.83*	*2.63*	*2.51*	*-1.23*	*-1.83*
Autoproducers	-	*0.76*	*0.31*	*0.14*	*0.03*	*0.03*	*0.02*	-	*-15.98*
Patent fuel/BKB plants	-	-	-	-	-	-	-	-	-
Coke ovens	-	-	-	-	-	-	-	-	-
Gas manufacture	-	-	-	-	-	-	-	-	-
Industry sector	3.82	3.28	2.41	0.60	0.20	0.20	0.15	-3.77	-15.10
Iron and steel	-	*0.27*	*0.19*	*0.01*	*0.00*	-	-	-	-
Chemical	-	*0.87*	*0.61*	*0.30*	*0.05*	*0.02*	-	-	-
Non-metallic minerals	-	*0.13*	*0.09*	*0.01*	-	*0.00*	-	-	-
Paper, pulp and print	-	*0.44*	*0.41*	*0.17*	*0.13*	*0.16*	*0.14*	-	*-6.06*
Other industry	*3.82*	*1.57*	*1.11*	*0.11*	*0.02*	*0.01*	*0.01*	*-9.77*	*-24.68*
Res, comm & pub serv[(1)]	-	6.55	5.99	0.54	0.23	0.30	0.26	-	-16.95
Non-energy use	-	-	-	-	-	-	-	-	-

Source: *IEA/OECD Energy Statistics of OECD Countries*

(1) Residential, commercial and public services.

* Please refer to notes in *Principles and Definitions* .

Slovak Republic

7. FUEL PRICES TO END USERS*

	1978[1]	1980	1990	2000	2004	2005	2006	2007	2008
					(US dollars / tce)				
For electricity generation									
Steam coal	4.30	4.81	8.61	..	..	..	..	..	..
Heavy fuel oil	51.12	51.55	88.03	..	x	x	x	x	x
Natural gas	44.83	53.16	77.00	78.88	188.97	223.61	294.77	326.90	484.32
For industry									
Steam coal	7.88	8.51	15.25	..	..	..	..	..	..
Coking coal	27.50	28.29	56.55	..	..	..	..	..	..
High sulphur fuel oil	51.12	51.55	88.03	..	x	x	x	x	x
Low sulphur fuel oil	x	x	x	..	147.39	162.63	217.62	244.49	366.24
Natural gas	44.83	53.16	77.00	78.88	188.97	223.61	294.77	326.90	484.32
					(Euro / unit)[2]				
For electricity generation									
Steam coal	1.79	1.99	4.48	..	..	..	..	..	..
Heavy fuel oil	33.86	33.86	72.70	..	x	x	x	x	x
Natural gas	27.55	32.40	59.00	155.67	259.98	296.12	372.92	344.22	441.50
For industry									
Steam coal	3.29	3.52	7.93	..	..	..	..	..	..
Coking coal	13.18	13.44	33.79	..	..	..	..	..	..
High sulphur fuel oil	33.86	33.86	72.70	..	x	x	x	x	x
Low sulphur fuel oil	x	x	x	..	218.52	232.09	296.70	277.44	359.78
Natural gas	27.55	32.40	59.00	155.67	259.98	296.12	372.92	344.22	441.50

Source: *IEA/OECD Energy Prices & Taxes*

(1) Earliest year for which split by coal type is available.

(2) For steam coal, coking coal and heavy fuel oil per metric tonne; for natural gas per 10^7 kilocalories GCV.

* Please refer to notes in *Principles and Definitions*.

8. COAL TRADE BY TYPE OF COAL*

(Mtce)

	1973	1980	1990	2000	2004	2005	2006	2007	2008e
Total imports	**8.95**	**9.03**	**8.87**	**4.95**	**5.42**	**5.56**	**5.36**	**5.68**	**5.37**
Hard coal	4.76	4.42	5.31	4.50	4.85	4.97	4.45	4.83	4.43
Coking coal	*..*	*2.22*	*2.99*	*2.58*	*2.83*	*2.74*	*2.84*	*2.72*	*2.52*
Steam coal	*..*	*2.20*	*2.33*	*1.92*	*2.02*	*2.23*	*1.61*	*2.11*	*1.91*
Brown coal / lignite	2.91	4.22	2.96	0.31	0.29	0.33	0.41	0.41	0.53
Peat	-	-	-	-	-	-	-	-	-
Coal products[1]	1.28	0.39	0.60	0.14	0.28	0.26	0.50	0.44	0.41
Total exports	**-**	**0.07**	**0.13**	**0.06**	**0.05**	**0.21**	**0.21**	**0.22**	**0.29**
Hard coal	-	-	-	-	-	-	-	-	-
Coking coal	*..*	-	-	-	-	-	-	-	-
Steam coal	*..*	-	-	-	-	-	-	-	-
Brown coal / lignite	-	0.06	0.13	0.00	-	-	-	-	-
Peat	-	-	-	-	-	-	-	-	-
Coal products[1]	-	0.01	-	0.06	0.05	0.21	0.21	0.22	0.29

Source: *IEA/OECD Energy Balances of OECD Countries, IEA/OECD Energy Statistics of OECD Countries*

(1) Coal products includes products derived from coal, for example: coke, coal tar, briquettes, patent fuels.

* Please refer to notes in *Principles and Definitions*.

Slovak Republic

9. HARD COAL IMPORTS BY ORIGIN*

(thousand tonnes)

	1978[1]	1980	1990	2000	2004	2005	2006	2007	2008e
Hard Coal	**6151**	**5030**	**5866**	**4851**	**5183**	**5263**	**4665**	**5286**	**4855**
Coking Coal	**2180**	**2330**	**3132**	**2596**	**2847**	**2732**	**2847**	**2852**	**2643**
Australia	-	-	-	-	-	-	-	-	-
Canada	-	-	-	-	-	-	-	231	169
Czech Republic	-	-	-	901 e	1671	1586	1782	1444	1605
Germany	-	-	-	-	-	-	-	-	-
Poland	-	-	-	669 e	967	579	797	364	220
United Kingdom	-	-	-	-	-	-	-	-	-
United States	-	-	-	-	60	290	206	306	408
Other OECD	-	-	-	-	-	-	-	-	-
China, People's Rep.	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-
South Africa	-	-	-	-	-	-	-	-	-
Former USSR[2]	-	-	-	-	-	-	-	-	-
Russia [3]	-	-	-	*1026 e*	*149*	*180*	*55*	*43*	*1*
Other Former USSR [3]	-	-	-	-	-	*97*	*7*	-	*13*
Venezuela	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-
Non-specified/other	2180	2330	3132	-	-	-	-	464	227
Steam coal	**3971**	**2700**	**2734**	**2255**	**2336**	**2531**	**1818**	**2434**	**2212**
Australia	-	-	-	-	-	-	-	-	-
Canada	-	-	-	-	-	-	-	-	-
Czech Republic	-	-	-	931 e	233	22	78	214	378
Germany	-	-	-	-	-	-	-	-	-
Poland	-	-	-	286 e	247	227	229	262	145
United Kingdom	-	-	-	-	-	-	-	-	-
United States	-	-	-	-	-	-	1	-	-
Other OECD	-	-	-	-	-	2	-	-	-
China, People's Rep.	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-
South Africa	-	-	-	-	-	-	16	-	-
Former USSR[2]	-	-	-	-	-	-	-	-	-
Russia [3]	-	-	-	*579 e*	*1319*	*1968*	*1300*	*1820*	*1672*
Other Former USSR [3]	-	-	-	*459 e*	*537*	*163*	*47*	*12*	*17*
Venezuela	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-
Non-specified/other	3971	2700	2734	-	-	149	147	126	-

Source: IEA/OECD Coal Statistics

(1) Earliest year for which split by coal type is available.

(2) If no detail.

(3) Data for former republics are not available separately for some OECD member countries.

* Please refer to notes in *Principles and Definitions* .

Spain*

Chart 1: TPES by fuel (Mtce)

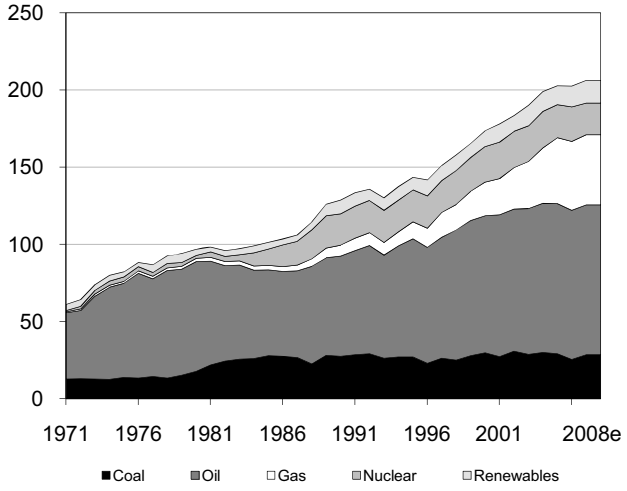


Chart 2: Coal supply indicators (1971 = 100)

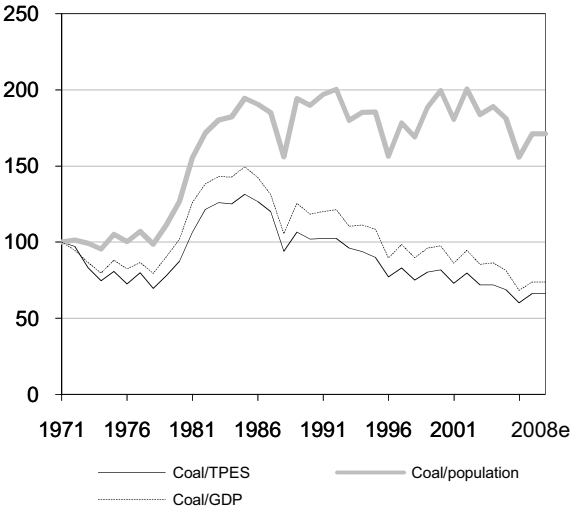


Chart 3: Primary coal supply (Mtce)

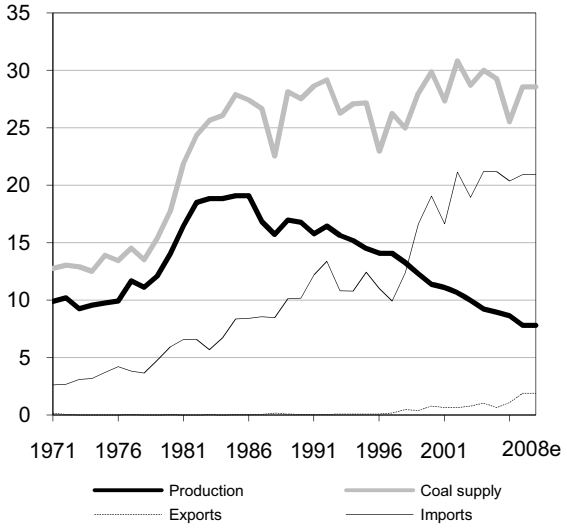


Chart 4: Coal consumption (Mtce)

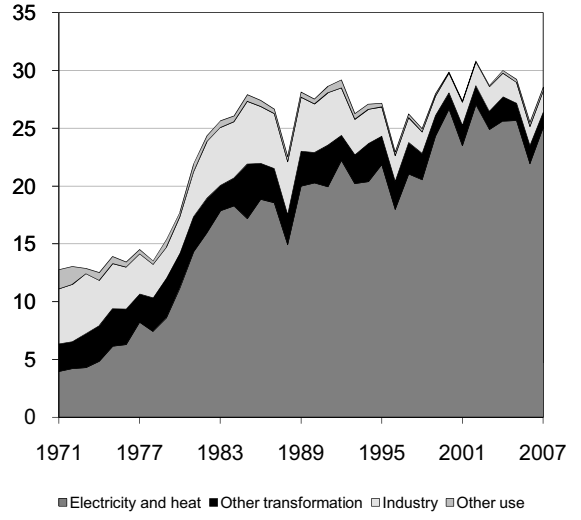


Chart 5: Electricity generation by fuel (TWh)

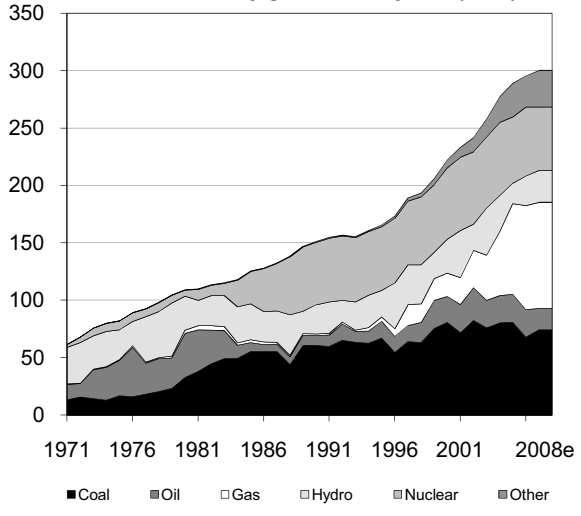
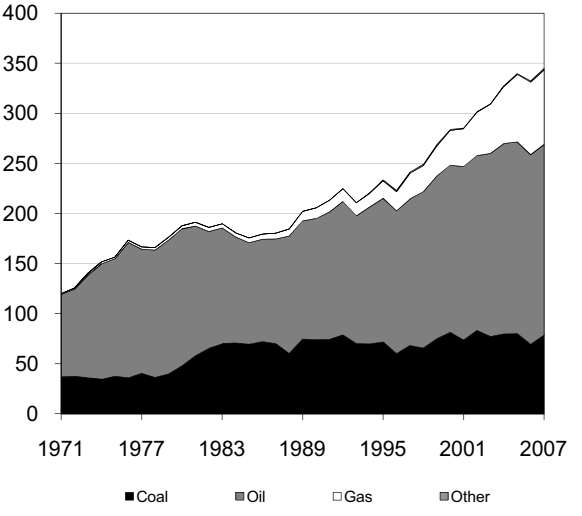


Chart 6: CO_2 emissions by fuel (Mt CO_2)



*Please refer to notes in *Principles and Definitions* . Peat is included in coal for all charts.

Spain

1. TOTAL PRIMARY ENERGY SUPPLY (TPES) BY FUEL*

	1973	1980	1990	2000	2006	2007	2008e	Average annual percent change 73-90	90-07
TPES (Mtce)	**73.72**	**96.71**	**128.70**	**174.21**	**202.11**	**205.64**	**196.82**	**3.33**	**2.80**
Coal and peat	12.90	17.75	27.56	29.88	25.53	28.58	19.54	4.57	0.22
Oil	53.72	71.11	64.96	88.72	96.59	97.06	92.23	1.12	2.39
Gas	1.35	2.08	7.10	21.74	44.61	45.49	49.85	10.27	11.55
Comb. renew/waste	0.02	0.38	5.81	5.90	7.23	7.70	7.46	40.22	1.67
Nuclear	2.44	1.93	20.20	23.16	22.38	20.51	21.87	13.25	0.09
Hydro	3.55	3.63	3.12	3.63 e	3.18	3.41	2.86	-0.76	0.52
Geothermal	-	-	-	0.01	0.01	0.01	0.01	-	-
Solar, wind, tide	-	-	0.00	0.63	2.98	3.58	4.36	-	53.48
Net electricity trade[1]	-0.25	-0.17	-0.05	0.55	-0.40	-0.71	-1.36	-8.81	16.64
Heat[2]	-	-	-	-	-	-	-	-	-

Source: *IEA/OECD Energy Balances of OECD Countries*

(1) Net trade between OECD and non-OECD countries.

(2) Ambient heat from heat pumps used in the transformation sector.

2. ENERGY SUPPLY, GDP AND POPULATION*

	1973	1980	1990	2000	2006	2007	2008e	Average annual percent change 73-90	90-07
GDP (2000 bil. US$)	282	330	441	581	708	734	743	2.66	3.05
TPES/GDP[1]	0.26	0.29	0.29	0.30	0.29	0.28	0.26	0.65	-0.25
Population (millions)	35.0	37.7	39.0	40.3	44.1	44.9	45.7	0.65	0.83
TPES/population[1]	2.11	2.57	3.30	4.33	4.59	4.58	4.31	2.67	1.95
TPES/GDP[2]	87.2	97.7	97.3	100.0	95.1	93.3	88.3	0.65	-0.25
Coal and peat supply/GDP[2]	88.9	104.6	121.5	100.0	70.0	75.6	51.1	1.86	-2.75
Elec. consumption/GDP[2]	64.5	83.8	88.0	100.0	111.6	108.9	..	1.84	1.26
Elec. generation (TWh)	76	109	151	222	296	300	306	4.15	4.12
Industrial production[2]	56.9	67.1	80.9	100.0	106.2	108.4	100.6	2.10	1.74

Source: *IEA/OECD Energy Balances of OECD Countries* , *OECD Main Economic Indicators*

(1) TPES/GDP in units of tce/2000 thousand US$, TPES/population in units of tce/capita.

(2) As index, 2000 = 100

3. COAL AND PEAT PRODUCTION BY TYPE*

	1978[1]	1980	1990	2000	2006	2007	2008e	Average annual percent change 78-90	90-07
Mtce:									
Coking coal	1.87	1.38	0.28	-	-	-	-	-14.69	-
Steam coal	6.71	8.05	10.30	7.73	5.28	5.11	4.74	3.64	-4.04
Brown coal	2.53	4.60	6.20	3.65	3.36	2.68	1.16	7.76	-4.80
Peat	-	-	-	-	-	-	-	-	-
Mt:									
Coking coal	1.80	1.33	0.28	-	-	-	-	-14.39	-
Steam coal	9.59	11.51	14.33	11.32	8.35	7.87	7.30	3.41	-3.46
Brown coal	8.26	15.45	21.07	12.15	10.09	9.31	2.90	8.12	-4.69
Peat	-	-	-	-	-	-	-	-	-

Source: *IEA/OECD Energy Balances of OECD Countries, IEA/OECD Energy Statistics of OECD Countries*

(1) Earliest year for which split by coal type is available.

* Please refer to notes in *Principles and Definitions* .

Spain

4. FINAL CONSUMPTION OF ENERGY BY FUEL*

(Mtce)

	1973	1980	1990	2000	2005	2006	2007	Average annual percent change 73-90	90-07
TFC[1]	**55.13**	**68.80**	**86.77**	**122.11**	**145.85**	**143.18**	**146.52**	**2.70**	**3.13**
Coal and peat	5.65	3.54	4.64	1.80	2.07	2.02	2.15	-1.16	-4.41
Oil	41.23	52.48	54.50	74.51	82.62	81.60	83.08	1.66	2.51
Gas	1.00	1.51	6.58	17.68	25.96	22.33	23.33	11.69	7.73
Comb. renew/wastes	-	0.24	5.60	4.90	5.34	5.60	5.92	-	0.33
Geothermal	-	-	-	0.01	0.01	0.01	0.01	-	-
Solar, wind, tide	-	-	-	0.04	0.09	0.10	0.13	-	-
Electricity	7.25	11.03	15.46	23.15	29.76	31.51	31.89	4.55	4.35
Heat	-	-	-	-	-	-	-	-	-
of which:									
Total industry	**24.65**	**26.93**	**27.70**	**35.32**	**43.54**	**36.09**	**37.28**	**0.69**	**1.76**
Coal and peat	5.18	3.16	4.21	1.71	1.80	1.67	1.84	-1.22	-4.75
Oil	14.22	16.03	8.23	8.16	7.90	7.62	7.95	-3.17	-0.20
Gas	0.58	0.88	4.86	13.07	18.97	12.54	13.08	13.30	6.00
Comb. renew/wastes	-	0.24	2.64	1.86	1.96	2.27	2.27	-	-0.89
Geothermal	-	-	-	-	-	-	-	-	-
Solar, wind, tide	-	-	-	0.00	0.00	0.00	0.00	-	-
Electricity	4.66	6.63	7.77	10.52	12.90	12.00	12.14	3.05	2.66
Heat	-	-	-	-	-	-	-	-	-
Total transport	**15.50**	**21.54**	**30.40**	**43.15**	**52.16**	**53.62**	**55.28**	**4.04**	**3.58**
Coal and peat	0.02	0.01	-	-	-	-	-	-	-
Oil	15.30	21.29	29.95	42.52	51.13	52.80	54.15	4.03	3.54
Gas	-	-	-	0.01	-	0.09	0.09	-	-
Comb. renew/wastes	-	-	-	0.10	0.37	0.25	0.55	-	-
Electricity	0.18	0.23	0.45	0.51	0.66	0.49	0.49	5.60	0.50
Residential	**5.18**	**7.33**	**13.08**	**16.97**	**21.52**	**22.58**	**22.76**	**5.59**	**3.32**
Coal and peat	0.44	0.37	0.40	0.06	0.23	0.28	0.26	-0.63	-2.42
Oil	3.07	4.08	5.09	5.78	6.10	5.41	5.25	3.02	0.17
Gas	0.33	0.48	0.91	2.88	4.55	5.23	5.45	6.11	11.12
Comb. renew/wastes	-	-	2.96	2.85	2.89	2.90	2.91	-	-0.11
Geothermal	-	-	-	-	-	0.00	0.00	-	-
Solar, wind, tide	-	-	-	0.03	0.06	0.07	0.09	-	-
Electricity	1.33	2.40	3.71	5.36	7.69 e	8.69	8.80	6.21	5.21
Heat	-	-	-	-	-	-	-	-	-
Comm & public services	**1.96**	**3.10**	**4.87**	**9.57**	**12.01**	**13.12**	**13.14**	**5.50**	**6.01**
Coal and peat	-	-	0.02	0.03 e	-	-	-	-	-
Oil	0.95	1.44	1.49	2.41	3.05	2.33	2.18	2.67	2.23
Gas	0.09	0.15	0.27	0.90	1.01	1.24	1.30	6.69	9.61
Comb. renew/waste	-	-	-	0.07	0.09	0.15	0.16	-	-
Geothermal	-	-	-	0.00	0.00	0.00	0.00	-	-
Solar, wind, tide	-	-	-	0.01	0.03	0.03	0.03	-	-
Electricity	0.92	1.50	3.08	6.15	7.84 e	9.36	9.48	7.39	6.83
Heat	-	-	-	-	-	-	-	-	-
Non-energy use	**4.80**	**6.58**	**8.34**	**13.42**	**11.93**	**11.31**	**11.29**	**3.30**	**1.79**
Coal and peat	-	-	-	-	-	-	-	-	-
Oil	4.80	6.58	7.81	12.74	11.24	10.68	10.61	2.90	1.82
Gas	-	-	0.53	0.68	0.69	0.63	0.68	-	1.43

Source: *IEA/OECD Energy Balances of OECD Countries*

(1) Total Final Consumption (TFC) excludes use in transformation and energy sectors.

* Please refer to notes in *Principles and Definitions*.

Spain

5. COAL BALANCE*

(Mtce)

	1973	1980	1990	2000	2006	2007	2008e	Average annual percent change 73-90	90-07
Production	9.3	14.0	16.8	11.4	8.6	7.8	5.9	3.6	-4.4
Imports	3.1	5.9	10.2	19.1	20.4	20.9	18.1	7.3	4.3
Exports	-0.0	-0.0	-0.0	-0.8	-1.1	-1.9	-2.2	10.0	24.5
Stock changes	0.6	-2.2	0.7	0.2	-2.4	1.8	-2.3	x	x
Primary supply	**12.9**	**17.8**	**27.6**	**29.9**	**25.5**	**28.6**	**19.5**	**4.6**	**0.2**
Statistical difference	**1.2**	**0.0**	**-0.1**	**0.6**	**0.0**	**0.7**	**..**	**x**	**x**
Total transformation	**-7.8 e**	**-13.4 e**	**-22.3 e**	**-28.2 e**	**-23.0 e**	**-26.4 e**	**..**	**6.4**	**1.0**
Electricity and heat gen.	-4.3	-11.2	-20.3	-26.7	-22.0	-25.1	..	9.5	1.3
Main activity producers (1)	*-4.3*	*-11.1*	*-20.1*	*-26.4*	*-21.7*	*-24.9*	*..*	*9.5*	*1.3*
Autoproducers	-	*-0.1*	*-0.2*	*-0.3*	*-0.3*	*-0.3*	*..*	-	*2.1*
Gas works	-	-0.0	-0.0	-	-	-	..	-	-
Coal transformation(2)	-3.5 e	-2.2 e	-2.0 e	-1.5 e	-1.0 e	-1.3 e	..	-3.3	-2.6
BKB plants	-	-	-	-	-	-	*..*	-	-
Blast furnaces	*-2.5 e*	*-1.8 e*	*-1.4 e*	*-1.0 e*	*-0.8 e*	*-0.9 e*	*..*	*-3.4*	*-2.3*
Coke ovens	*-1.0*	*-0.4*	*-0.6*	*-0.6*	*-0.2*	*-0.3*	*..*	*-3.2*	*-3.3*
Patent fuel plants	*-0.0*	*0.0*	*0.0*	-	-	-	*..*	-	-
Other transformation(3)	-	-	-	-	-	-	..	-	-
Own use	**-0.7**	**-0.8**	**-0.5**	**-0.4**	**-0.6**	**-0.7**	**..**	**-1.7**	**1.6**
Distribution losses	**-**	**-**	**-**	**-0.0**	**-0.0**	**-0.0**	**..**	**x**	**x**
Final consumption(4)	**5.7**	**3.5**	**4.6**	**1.8**	**2.0**	**2.2**	**..**	**-1.2**	**-4.4**
Industry sector(5)	5.2	3.2	4.2	1.7	1.7	1.8	..	-1.2	-4.7
Iron and steel	*3.2 e*	*2.4 e*	*2.1 e*	*1.1 e*	*1.1 e*	*1.1 e*	*..*	*-2.5*	*-3.8*
Chemical	*0.4*	*0.3*	*0.2*	*0.1*	*0.2*	*0.2*	*..*	*-3.8*	*-0.8*
Non-metallic minerals	-	*0.3*	*1.6*	*0.4*	*0.2*	*0.4*	*..*	-	*-8.3*
Paper, pulp and print	-	*0.0*	*0.0*	-	-	-	*..*	-	-
Transport sector(6)	0.0	0.0	-	-	-	-	..	-	-
Other sectors(7)	0.4	0.4	0.4	0.1	0.3	0.3	..	-0.2	-1.9
Comm. and pub. services	-	-	*0.0*	*0.0 e*	-	-	*..*	-	-
Residential	*0.4*	*0.4*	*0.4*	*0.1*	*0.3*	*0.3*	*..*	*-0.6*	*-2.4*
Non-energy use	-	-	-	-	-	-	..	-	-

Source: *IEA/OECD Energy Balances of OECD Countries*

(1) Main activity electricity and heat generation includes district heating.

(2) Coal transformation refers to the transformation of coal and peat to secondary and tertiary products (mainly coke, briquettes, coke oven gas and blast furnace gas).

(3) Other transformation includes liquefaction and non-specified transformation.

(4) Final Consumption includes non-energy use and energy use (industry, transport and other sectors).

(5) Please refer to notes in *Principles and Definitions* for detailed explanation.

(6) Transport sector includes rail and inland waterways.

(7) Other sectors includes commercial and public services, agriculture, and residential.

* "Coal" refers to all types of coal, primary (anthracite, coking coal, other bituminous coal, sub-bituminous coal, lignite/brown coal, peat) and derived fuels (including patent fuel, BKB/peat briquettes, coke oven coke, gas coke, coal tar, coke oven gas, gas works gas, blast furnace gas and oxygen steel furnace gas). Quantities have been converted to Mtce using calorific values reported by the respective countries. Please refer to notes in *Principles and Definitions*.

Spain

6. USE OF COAL FOR SELECTED END-USES*

(million tonnes)

	1978	1980	1990	2000	2005	2006	2007	Average annual percent change 78-90	90-07
Steam coal	**8.33**	**11.12**	**21.59**	**29.25**	**29.49**	**25.84**	**29.42**	**8.26**	**1.84**
Total electricity and heat	6.82	9.50	18.87	28.11	27.87	24.48	27.25	8.85	2.18
Main activity producers	*6.69*	*9.43*	*18.79*	*27.92*	*27.79*	*24.20*	*27.00*	*8.99*	*2.15*
Autoproducers	*0.13*	*0.06*	*0.08*	*0.19*	*0.08*	*0.28*	*0.25*	*-4.23*	*7.12*
Patent fuel/BKB plants	0.06	0.06	0.01	-	-	-	-	-18.93	-
Coke ovens	0.30	0.25	0.02	-	-	-	-	-18.94	-
Blast furnace inputs	-	-	-	0.54	0.49	0.36	0.57	-	-
Gas manufacture	-	0.01	-	-	-	-	-	-	-
Industry sector	0.75	0.90	2.25	0.67	0.75	0.67	0.91	9.56	-5.21
Iron and steel	*0.31*	*0.21*	*0.30*	*0.14*	*0.22*	*0.15*	*0.20*	*-0.16*	*-2.33*
Chemical	*0.20*	*0.26*	*0.10*	*0.06*	*0.25*	*0.20*	*0.19*	*-5.73*	*3.98*
Non-metallic minerals	*0.17*	*0.35*	*1.77*	*0.47*	*0.18*	*0.22*	*0.45*	*21.76*	*-7.72*
Paper, pulp and print	*0.00*	*0.02*	*0.03*	-	-	-	-	*25.32*	-
Other industry	*0.08*	*0.06*	*0.05*	-	*0.10*	*0.10*	*0.06*	*-3.32*	*1.08*
Res, comm & pub serv[1]	0.35	0.40	0.51	0.12	0.25	0.31	0.29	3.29	-3.26
Non-energy use	-	-	-	-	-	-	-	-	-
Coking coal	**4.86**	**5.41**	**4.46**	**3.56**	**3.46**	**3.56**	**3.67**	**-0.73**	**-1.14**
Total electricity and heat	-	-	-	-	-	-	-	-	-
Main activity producers	-	-	-	-	-	-	-	-	-
Autoproducers	-	-	-	-	-	-	-	-	-
Patent fuel/BKB plants	-	-	-	-	-	-	-	-	-
Coke ovens	4.86	4.99	4.46	3.64	3.60	3.66	3.74	-0.73	-1.03
Blast furnace inputs	-	-	-	-	-	-	-	-	-
Gas manufacture	-	-	-	-	-	-	-	-	-
Industry sector	-	-	-	-	-	-	-	-	-
Iron and steel	-	-	-	-	-	-	-	-	-
Chemical	-	-	-	-	-	-	-	-	-
Non-metallic minerals	-	-	-	-	-	-	-	-	-
Paper, pulp and print	-	-	-	-	-	-	-	-	-
Other industry	-	-	-	-	-	-	-	-	-
Res, comm & pub serv[1]	-	-	-	-	-	-	-	-	-
Non-energy use	-	-	-	-	-	-	-	-	-
Brown coal/lignite	**8.16**	**14.69**	**20.78**	**12.85**	**11.55**	**10.10**	**9.58**	**8.10**	**-4.45**
Total electricity and heat	8.09	14.58	20.63	12.91	11.43	10.25	9.57	8.12	-4.42
Main activity producers	*8.09*	*14.58*	*20.63*	*12.91*	*11.43*	*10.25*	*9.57*	*8.12*	*-4.42*
Autoproducers	-	*0.00*	-	-	-	-	-	-	-
Patent fuel/BKB plants	-	-	-	-	-	-	-	-	-
Coke ovens	-	-	-	-	-	-	-	-	-
Gas manufacture	-	-	-	-	-	-	-	-	-
Industry sector	0.03	0.05	0.08	-	-	-	-	7.64	-
Iron and steel	-	-	-	-	-	-	-	-	-
Chemical	*0.02*	*0.01*	*0.04*	-	-	-	-	*4.66*	-
Non-metallic minerals	*0.01*	*0.04*	*0.00*	-	-	-	-	*-6.53*	-
Paper, pulp and print	-	-	*0.03*	-	-	-	-	-	-
Other industry	-	-	-	-	-	-	-	-	-
Res, comm & pub serv[1]	0.04	0.05	0.04	-	-	-	-	1.09	-
Non-energy use	-	-	-	-	-	-	-	-	-

Source: *IEA/OECD Energy Statistics of OECD Countries*

(1) Residential, commercial and public services.

* Please refer to notes in *Principles and Definitions*.

Spain

7. FUEL PRICES TO END USERS*

	1978[1]	1980	1990	2000	2004	2005	2006	2007	2008
				(US dollars / tce)					
For electricity generation									
Steam coal	42.60	69.75	..	..	..	..	..	..	..
Heavy fuel oil	65.54	125.39	106.42	169.30	..	..	..	..	..
Natural gas	60.18	127.62	118.39	128.33	..	..	..	..	..
For industry									
Steam coal	..	..	..	..	..	..	..	..	..
Coking coal	68.57	103.43	c	c	c	c	c	c	c
High sulphur fuel oil	65.54	117.59	106.42	138.84	..	..	..	..	..
Low sulphur fuel oil	..	..	..	169.30	204.12	278.37	322.89	345.20	476.63
Natural gas	100.39	172.12	127.20	136.41	167.70	197.69	276.03	295.78	378.46
				(Euro / unit)[2]					
For electricity generation									
Steam coal	15.43	23.62	..	..	..	..	..	..	..
Heavy fuel oil	40.57	72.57	87.60	246.67	..	..	..	..	..
Natural gas	35.67	70.72	93.31	179.02	..	..	..	..	..
For industry									
Steam coal	..	..	..	..	..	..	..	..	..
Coking coal	32.38	45.66	c	c	c	c	c	c	c
High sulphur fuel oil	40.57	68.06	87.60	202.29	..	..	..	..	..
Low sulphur fuel oil	..	..	..	246.67	220.65	300.92	345.57	338.40	437.79
Natural gas	59.50	95.38	100.25	190.29	173.57	204.61	282.85	277.61	332.83

Source: *IEA/OECD Energy Prices & Taxes*

(1) Earliest year for which split by coal type is available.

(2) For steam coal, coking coal and heavy fuel oil per metric tonne; for natural gas per 10^7 kilocalories GCV.

* Please refer to notes in *Principles and Definitions*.

8. COAL TRADE BY TYPE OF COAL*

(Mtce)

	1973	1980	1990	2000	2004	2005	2006	2007	2008e
Total imports	**3.08**	**5.92**	**10.16**	**19.07**	**21.22**	**21.20**	**20.38**	**20.93**	**18.12**
Hard coal	2.60	5.35	9.76	18.93	21.04	21.06	20.21	20.79	17.91
Coking coal	*..*	*4.23*	*4.29*	*3.84*	*4.14*	*3.66*	*3.71*	*3.77*	*3.45*
Steam coal	*..*	*1.12*	*5.48*	*15.09*	*16.90*	*17.40*	*16.50*	*17.02*	*14.46*
Brown coal / lignite	0.01	0.00	0.00	-	-	-	-	-	-
Peat	-	-	-	-	-	-	-	-	-
Coal products[1]	0.47	0.57	0.39	0.14	0.18	0.14	0.16	0.14	0.21
Total exports	**0.01**	**0.01**	**0.05**	**0.77**	**1.02**	**0.63**	**1.08**	**1.90**	**2.16**
Hard coal	0.01	0.01	0.00	-	-	-	-	0.81	1.51
Coking coal	*..*	-	-	-	-	-	-	*0.02*	*0.01*
Steam coal	*..*	*0.01*	*0.00*	-	-	-	-	*0.78*	*1.51*
Brown coal / lignite	0.00	-	-	-	-	-	-	-	-
Peat	-	-	-	-	-	-	-	-	-
Coal products[1]	0.00	0.00	0.04	0.77	1.02	0.63	1.08	1.09	0.64

Source: *IEA/OECD Energy Balances of OECD Countries, IEA/OECD Energy Statistics of OECD Countries*

(1) Coal products includes products derived from coal, for example: coke, coal tar, briquettes, patent fuels.

* Please refer to notes in *Principles and Definitions*.

Spain

9. HARD COAL IMPORTS BY ORIGIN*

(thousand tonnes)

	1978[1]	1980	1990	2000	2004	2005	2006	2007	2008e
Hard Coal	**3376**	**5678**	**10455**	**21649**	**24473**	**24756**	**23704**	**24439**	**20967**
Coking Coal	**3029**	**4074**	**4169**	**3755**	**4043**	**3571**	**3622**	**3682**	**3371**
Australia	454	636	672	1388	2155	1682	1969	2300	1719
Canada	68	47	-	383	230	285	234	158	176
Czech Republic	-	-	-	-	-	-	-	-	-
Germany	395	60	364	-	-	-	-	-	-
Poland	1369	999	234	-	114	99	151	-	-
United Kingdom	-	-	-	-	-	-	-	-	-
United States	743	2300	2899	1912	1318	1273	976	1224	1344
Other OECD	-	-	-	-	-	-	-	-	28
China, People's Rep.	-	-	-	-	70	178	291	-	104
Colombia	-	-	-	-	-	-	1	-	-
Indonesia	-	-	-	-	-	-	-	-	-
South Africa	-	-	-	-	19	-	-	-	-
Former USSR[2]	-	-	-	-	-	-	-	-	-
Russia[3]	-	-	-	*72*	*137*	-	-	-	-
Other Former USSR[3]	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	54	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-
Non-specified/other	-	32	-	-	-	-	-	-	-
Steam coal	**347**	**1604**	**6286**	**17894**	**20430**	**21185**	**20082**	**20757**	**17596**
Australia	-	-	271	1627	1108	1433	1579	1414	1475
Canada	-	-	-	-	-	16	-	-	59
Czech Republic	-	-	-	-	-	-	-	-	-
Germany	-	-	43	102	99	169	102	100	112
Poland	-	-	16	313	28	28	45	37	28
United Kingdom	12	-	153	27	22	4	16	21	26
United States	-	714	275	585	689	227	446	138	1036
Other OECD	21	15	89	36	46	12	19	53	32
China, People's Rep.	-	72	-	191	73	47	3	3	11
Colombia	-	-	404	1112	972	1938	1534	2308	1994
Indonesia	-	-	-	2804	3521	3784	4022	4599	4064
South Africa	114	713	4667	9180	10176	8736	8213	8772	5602
Former USSR[2]	196	90	-	-	-	-	-	-	-
Russia[3]	-	-	*285*	*1496*	*3148*	*4235*	*3609*	*2705*	*2623*
Other Former USSR[3]	-	-	-	*32*	*483*	*450*	*225*	*161*	*276*
Venezuela	-	-	53	389	15	91	153	382	192
Vietnam	-	-	-	-	40	15	110	-	-
Non-specified/other	4	-	30	-	10	-	6	64	66

Source: IEA/OECD Coal Statistics

(1) Earliest year for which split by coal type is available.

(2) If no detail.

(3) Data for former republics are not available separately for some OECD member countries.

* Please refer to notes in *Principles and Definitions*.

Spain

12. COAL IMPORT VALUES BY ORIGIN*

(average unit value, CIF, US$/tonne)

	1988	1990	1995	2003	2004	2005	2006	2007	2008
Coking coal[1]	**54.09**	**62.38**	**58.59**	**60.44**	**79.30**	**116.50**	**134.81**	**124.87**	**211.23**
Imports from:									
Australia	47.61	59.85	52.80	58.00	68.83	110.07	137.79	125.17	238.36
Canada	..	..	57.34	61.03	79.64	141.45	142.24	142.00	259.29
Czech Republic	..	..	..	..	..	..	..	..	..
Poland	56.08	59.09	51.07	..	129.88	135.89	123.25	..	..
United States	56.16	63.21	61.65	64.22	86.28	116.42	128.18	122.09	160.69
China	..	..	..	62.82	57.80	137.51	136.71	..	344.75
Colombia	..	..	..	..	..	..	2611.31	..	..
South Africa	..	..	..	..	72.04	..	..	..	..
Former USSR[2]	..	..	..	..	145.89	..	..	..	..
Steam coal[3]	**37.85**	**44.74**	**43.24**	**36.73**	**55.89**	**62.94**	**60.66**	**74.06**	**128.55**
Imports from:									
Australia	41.82	52.89	50.56	36.99	57.79	93.53	97.90	79.48	158.54
Canada	..	..	..	..	..	64.94	377.69	403.91	142.45
Czech Republic	..	..	..	..	..	..	..	..	..
Poland	..	102.86	..	70.79	91.49	114.05	114.72	142.48	214.64
United States	91.78	44.32	38.79	37.31	49.58	46.84	60.43	126.87	125.44
China	34.40	..	..	..	..	93.42	..	..	..
Colombia	37.52	48.08	46.44	40.52	63.98	63.06	61.96	72.34	138.29
South Africa	36.98	43.00	44.04	34.57	55.69	65.12	61.65	75.14	138.56
Former USSR[2]	38.17	42.90	46.33	42.05	70.46	65.99	64.82	92.84	156.74

Source: IEA/OECD Coal Statistics

Note: On occasion, shipment of extremely small quantities of high valued coal results in high import costs.

(1) Weighted average of individual countries using import volumes as weights. Prices exclude intra-EU trade.

(2) Former USSR until 1991, Russia starting in 1992.

(3) Bituminous steam coal only. Weighted average of individual countries using volumes as weights. Prices exclude intra-EU trade.

* Please refer to notes in *Principles and Definitions*.

Sweden*

Chart 1: TPES by fuel (Mtce)

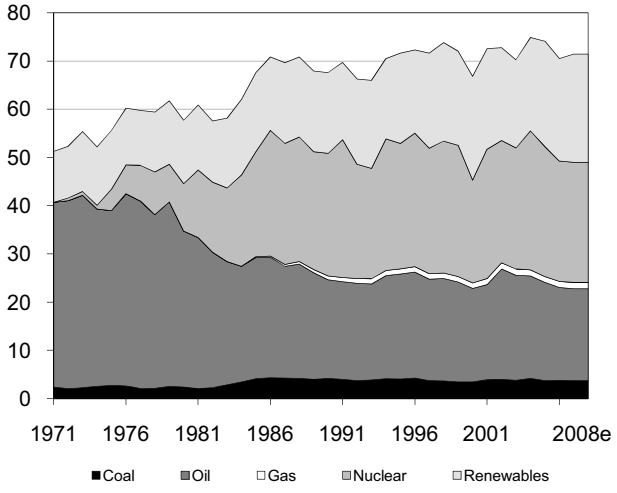


Chart 2: Coal supply indicators (1971 = 100)

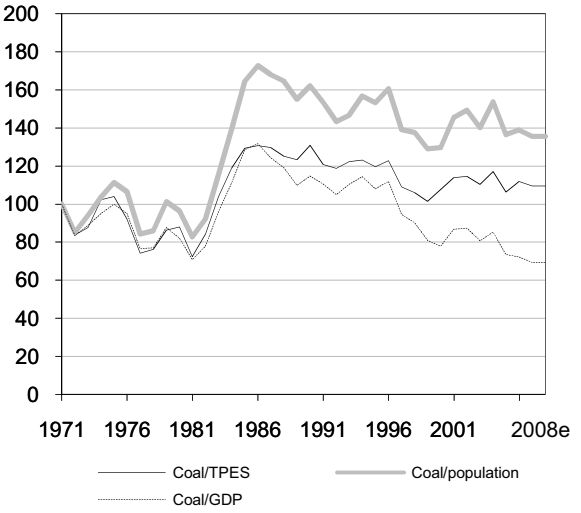


Chart 3: Primary coal supply (Mtce)

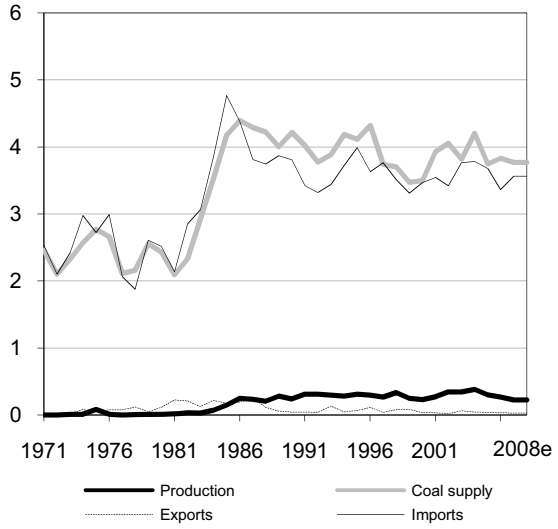


Chart 4: Coal consumption (Mtce)

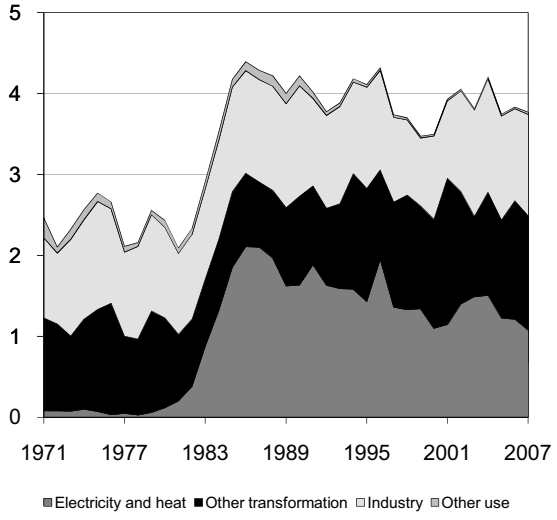


Chart 5: Electricity generation by fuel (TWh)

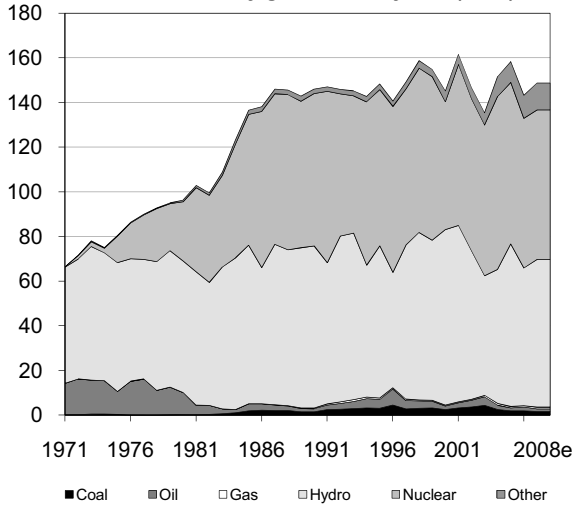
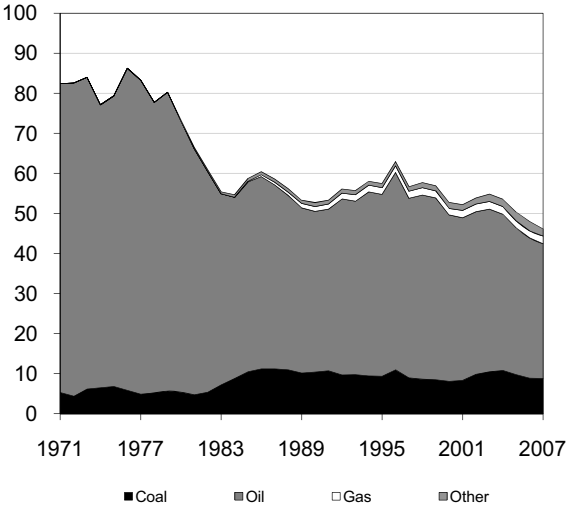


Chart 6: CO_2 emissions by fuel (Mt CO_2)



*Please refer to notes in *Principles and Definitions* . Peat is included in coal for all charts.

Sweden

1. TOTAL PRIMARY ENERGY SUPPLY (TPES) BY FUEL*

	1973	1980	1990	2000	2006	2007	2008e	Average annual percent change 73-90	90-07
TPES (Mtce)	**55.49**	**57.84**	**67.43**	**67.95**	**71.72**	**72.03**	**71.05**	**1.15**	**0.39**
Coal and peat	2.33	2.43	4.22	3.50	3.84	3.77	3.63	3.57	-0.66
Oil	39.87	32.34	20.43	19.39	19.24	19.04	19.16	-3.86	-0.41
Gas	-	-	0.82	1.11	1.26	1.30	1.18	-	2.72
Comb. renew/waste	5.06	5.90	7.87	11.80	13.58	14.10	14.46	2.63	3.49
Nuclear	0.79	9.86	25.38	21.34	24.94	24.93	23.76	22.68	-0.11
Hydro	7.36	7.23	8.91	9.65	7.58	8.13	8.45	1.13	-0.54
Geothermal	-	-	-	-	-	-	-	-	-
Solar, wind, tide	-	-	0.01	0.06	0.13	0.19	0.25	-	23.39
Net electricity trade(1)	0.09	0.07	-0.22	0.57	0.74	0.16	-0.24	-	-
Heat(2)	-	-	-	0.51	0.41	0.40	0.38	-	-

Source: *IEA/OECD Energy Balances of OECD Countries*

(1) Net trade between OECD and non-OECD countries.

(2) Ambient heat from heat pumps used in the transformation sector.

2. ENERGY SUPPLY, GDP AND POPULATION*

	1973	1980	1990	2000	2006	2007	2008e	Average annual percent change 73-90	90-07
GDP (2000 bil. US$)	143	162	202	246	290	298	297	2.02	2.32
TPES/GDP(1)	0.39	0.36	0.33	0.28	0.25	0.24	0.24	-0.85	-1.89
Population (millions)	8.1	8.3	8.6	8.9	9.1	9.1	9.2	0.30	0.39
TPES/population(1)	6.82	6.96	7.88	7.66	7.90	7.87	7.71	0.85	-0.00
TPES/GDP(2)	139.9	128.9	120.9	100.0	89.2	87.4	86.4	-0.85	-1.89
Coal and peat supply/GDP(2)	113.9	105.4	147.1	100.0	92.7	89.0	85.9	1.52	-2.92
Elec. consumption/GDP(2)	92.1	99.9	113.9	100.0	85.9	84.0	..	1.26	-1.78
Elec. generation (TWh)	78	96	146	145	143	149	149	3.75	0.11
Industrial production(2)	52.5	52.3	69.2	100.0	111.9	115.5	112.9	1.64	3.06

Source: *IEA/OECD Energy Balances of OECD Countries* , *OECD Main Economic Indicators*

(1) TPES/GDP in units of tce/2000 thousand US$, TPES/population in units of tce/capita.

(2) As index, 2000 = 100

3. COAL AND PEAT PRODUCTION BY TYPE*

	1978(1)	1980	1990	2000	2006	2007	2008e	Average annual percent change 78-90	90-07
Mtce:									
Coking coal	-	-	-	-	-	-	-	-	-
Steam coal	0.01	0.01	0.01	-	-	-	-	-3.07	-
Brown coal	-	-	-	-	-	-	-	-	-
Peat	-	0.00	0.23	0.23	0.26	0.22	0.30	-	-0.29
Mt:									
Coking coal	-	-	-	-	-	-	-	-	-
Steam coal	0.02	0.02	0.01	-	-	-	-	-3.07	-
Brown coal	-	-	-	-	-	-	-	-	-
Peat	-	0.00	0.58	0.54	0.62	0.52	0.70	-	-0.65

Source: *IEA/OECD Energy Balances of OECD Countries, IEA/OECD Energy Statistics of OECD Countries*

(1) Earliest year for which split by coal type is available.

* Please refer to notes in *Principles and Definitions* .

Sweden

4. FINAL CONSUMPTION OF ENERGY BY FUEL*

(Mtce)

	1973	1980	1990	2000	2005	2006	2007	Average annual percent change 73-90	90-07
TFC[1]	**49.74**	**49.43**	**45.88**	**50.42**	**49.34**	**48.89**	**49.07**	**-0.47**	**0.40**
Coal and peat	1.33	1.20	1.49	1.05	1.31	1.16	1.28	0.70	-0.88
Oil	34.83	28.81	20.02	20.25	18.50	17.67	17.42	-3.20	-0.82
Gas	0.15	0.11	0.52	0.68	0.78	0.79	0.80	7.49	2.57
Comb. renew/wastes	4.94	5.51	6.62	7.55	6.73	7.22	7.60	1.74	0.82
Geothermal	-	-	-	-	-	-	-	-	-
Solar, wind, tide	-	-	0.00	0.01	0.01	0.01	0.01	-	6.03
Electricity	8.50	10.43	14.79	15.81	16.06	16.07	16.10	3.31	0.50
Heat	-	3.37	2.44	5.07	5.96	5.97	5.85	-	5.28
of which:									
Total industry	**18.95**	**17.07**	**16.94**	**19.54**	**17.09**	**17.22**	**17.44**	**-0.66**	**0.17**
Coal and peat	1.20	1.12	1.37	1.03	1.29	1.14	1.25	0.77	-0.51
Oil	8.68	6.64	3.09	4.39	2.63	2.37	2.17	-5.90	-2.05
Gas	0.02	0.01	0.37	0.44	0.49	0.51	0.51	20.26	2.00
Comb. renew/wastes	4.19	4.32	5.25	6.19	5.07	5.61	5.83	1.33	0.62
Geothermal	-	-	-	-	-	-	-	-	-
Solar, wind, tide	-	-	-	-	-	-	-	-	-
Electricity	4.86	4.98	6.63	7.00	7.07	7.04	7.12	1.84	0.42
Heat	-	-	0.24	0.49	0.54	0.55	0.55	-	5.01
Total transport	**7.52**	**8.33**	**9.88**	**10.56**	**11.25**	**11.29**	**11.48**	**1.62**	**0.89**
Coal and peat	-	0.00	-	-	-	-	-	-	-
Oil	7.27	8.05	9.57	10.15	10.69	10.64	10.68	1.63	0.65
Gas	-	-	-	0.01	0.02	0.03	0.03	-	-
Comb. renew/wastes	-	-	-	-	0.19	0.27	0.41	-	-
Electricity	0.26	0.28	0.30	0.39	0.35	0.35	0.36	1.03	1.00
Residential	**15.35**	**13.93**	**9.35**	**10.42**	**10.43**	**10.00**	**9.61**	**-2.88**	**0.17**
Coal and peat	0.07	0.02	-	-	-	-	-	-	-
Oil	12.47	9.51	2.20	1.25	0.59	0.35	0.21	-9.71	-12.88
Gas	0.14	0.07	0.07	0.15	0.10	0.08	0.08	-3.61	0.38
Comb. renew/wastes	0.74	1.18	0.90	0.88	0.90	0.85	0.86	1.15	-0.27
Geothermal	-	-	-	-	-	-	-	-	-
Solar, wind, tide	-	-	0.00	0.01	0.01	0.01	0.01	-	6.03
Electricity	1.93	3.16	4.68	5.16	5.24	5.10	4.87	5.34	0.23
Heat	-	-	1.49	2.97	3.59	3.61	3.58	-	5.29
Comm & public services	**1.41**	**1.93**	**5.72**	**6.28**	**6.13**	**5.83**	**5.97**	**8.59**	**0.25**
Coal and peat	-	0.00	-	-	-	-	-	-	-
Oil	0.04	0.02	1.93	1.50	0.88	0.50	0.56	24.93	-7.04
Gas	-	0.03	0.06	0.05	0.14	0.14	0.14	-	5.10
Comb. renew/waste	-	0.01	0.02	0.02	0.09	0.06	0.06	-	5.75
Geothermal	-	-	-	-	-	-	-	-	-
Solar, wind, tide	-	-	-	-	-	-	-	-	-
Electricity	1.37	1.87	2.99	3.12	3.21	3.33	3.50	4.72	0.92
Heat	-	-	0.71	1.60	1.82	1.79	1.71	-	5.32
Non-energy use	**3.11**	**2.24**	**2.76**	**2.47**	**3.28**	**3.41**	**3.46**	**-0.71**	**1.35**
Coal and peat	0.06	0.06	0.06	0.02	0.02	0.02	0.03	0.32	-4.11
Oil	3.06	2.18	2.70	2.45	3.25	3.39	3.44	-0.73	1.43
Gas	-	-	-	-	-	-	-	-	-

Source: *IEA/OECD Energy Balances of OECD Countries*

(1) Total Final Consumption (TFC) excludes use in transformation and energy sectors.

* Please refer to notes in *Principles and Definitions*.

Sweden

5. COAL BALANCE*

(Mtce)

	1973	1980	1990	2000	2006	2007	2008e	Average annual percent change 73-90	90-07
Production	0.0	0.0	0.2	0.2	0.3	0.2	0.3	19.5	-0.4
Imports	2.4	2.5	3.8	3.5	3.4	3.6	3.3	2.7	-0.4
Exports	-0.0	-0.1	-0.0	-0.0	-0.0	-0.0	-0.0	3.5	-2.0
Stock changes	-0.1	0.0	0.2	-0.2	0.2	0.0	0.1	x	x
Primary supply	**2.3**	**2.4**	**4.2**	**3.5**	**3.8**	**3.8**	**3.6**	**3.6**	**-0.7**
Statistical difference	**-**	**0.0**	**0.0**	**0.1**	**0.4**	**0.2**	**..**	**x**	**x**
Total transformation	**-0.9 e**	**-1.0 e**	**-2.6 e**	**-2.3 e**	**-2.9 e**	**-2.5 e**	**..**	**6.4**	**-0.1**
Electricity and heat gen.	-0.1	-0.1	-1.6	-1.1	-1.2	-1.1	..	19.8	-2.4
Main activity producers (1)	*-0.1*	*-0.1*	*-1.6*	*-1.0*	*-1.1*	*-1.0*	*..*	*19.7*	*-2.8*
Autoproducers	-	*-0.0*	*-0.0*	*-0.1*	*-0.1*	*-0.1*	*..*	-	*11.2*
Gas works	-	-	-	-	-	-	..	-	-
Coal transformation(2)	-0.8 e	-0.9 e	-0.9 e	-1.2 e	-1.7 e	-1.4 e	..	0.7	2.7
BKB plants	-	-	-	-	-	-	*..*	-	-
Blast furnaces	*-0.8 e*	*-0.7 e*	*-0.7 e*	*-0.8 e*	*-0.9 e*	*-0.8 e*	*..*	*-0.8*	*1.3*
Coke ovens	*-0.0*	*-0.2*	*-0.2*	*-0.4*	*-0.8*	*-0.6*	*..*	*11.2*	*5.5*
Patent fuel plants	-	-	-	-	-	-	*..*	-	-
Other transformation(3)	-	-	-	-	-	-	..	-	-
Own use	**-0.1 e**	**-0.1**	**-0.1**	**-0.1**	**-0.2**	**-0.1**	**..**	**3.8**	**1.0**
Distribution losses	**-0.1 e**	**-0.1**	**-0.1**	**-0.1**	**-0.1**	**-0.1**	**..**	**x**	**x**
Final consumption(4)	**1.3**	**1.2**	**1.5**	**1.1**	**1.2**	**1.3**	**..**	**0.7**	**-0.9**
Industry sector(5)	1.2	1.1	1.4	1.0	1.1	1.3	..	0.8	-0.5
Iron and steel	*0.7 e*	*0.6 e*	*0.6 e*	*0.5 e*	*0.6 e*	*0.7 e*	*..*	*-1.4*	*1.8*
Chemical	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*..*	*10.1*	*-8.7*
Non-metallic minerals	*0.3*	*0.2*	*0.4*	*0.3*	*0.3*	*0.3*	*..*	*2.8*	*-2.7*
Paper, pulp and print	*0.0*	*0.0*	*0.1*	*0.0*	*0.0*	*0.0*	*..*	*20.8*	*-6.1*
Transport sector(6)	-	0.0	-	-	-	-	..	-	-
Other sectors(7)	0.1	0.0	0.1	-	-	-	..	-0.5	-
Comm. and pub. services	-	*0.0*	-	-	-	-	*..*	-	-
Residential	*0.1*	*0.0*	-	-	-	-	*..*	-	-
Non-energy use	0.1	0.1	0.1	0.0	0.0	0.0	..	0.3	-4.1

Source: *IEA/OECD Energy Balances of OECD Countries*

(1) Main activity electricity and heat generation includes district heating.

(2) Coal transformation refers to the transformation of coal and peat to secondary and tertiary products (mainly coke, briquettes, coke oven gas and blast furnace gas).

(3) Other transformation includes liquefaction and non-specified transformation.

(4) Final Consumption includes non-energy use and energy use (industry, transport and other sectors).

(5) Please refer to notes in *Principles and Definitions* for detailed explanation.

(6) Transport sector includes rail and inland waterways.

(7) Other sectors includes commercial and public services, agriculture, and residential.

* "Coal" refers to all types of coal, primary (anthracite, coking coal, other bituminous coal, sub-bituminous coal, lignite/brown coal, peat) and derived fuels (including patent fuel, BKB/peat briquettes, coke oven coke, gas coke, coal tar, coke oven gas, gas works gas, blast furnace gas and oxygen steel furnace gas). Quantities have been converted to Mtce using calorific values reported by the respective countries. Please refer to notes in *Principles and Definitions*.

Sweden

6. USE OF COAL FOR SELECTED END-USES*

(million tonnes)

	1978	1980	1990	2000	2005	2006	2007	Average annual percent change 78-90	90-07
Steam coal	**0.34**	**0.48**	**2.19**	**1.09**	**1.22**	**1.02**	**1.19**	**16.72**	**-3.52**
Total electricity and heat	0.02	0.09	1.19	0.50	0.42	0.56	0.40	43.16	-6.15
Main activity producers	*0.02*	*0.08*	*1.17*	*0.49*	*0.42*	*0.56*	*0.40*	*43.02*	*-6.09*
Autoproducers	-	*0.00*	*0.01*	*0.01*	*0.00*	*0.00*	-	-	-
Patent fuel/BKB plants	-	-	-	-	-	-	-	-	-
Coke ovens	-	-	-	-	-	-	-	-	-
Blast furnace inputs	-	-	0.18	0.27	0.42	0.43	0.43	-	5.13
Gas manufacture	-	-	-	-	-	-	-	-	-
Industry sector	0.30	0.33	0.74	0.50	0.57	0.56	0.58	7.88	-1.44
Iron and steel	*0.02*	*0.03*	*0.05*	*0.04*	*0.11*	*0.09*	*0.13*	*6.32*	*5.89*
Chemical	*0.01*	*0.04*	*0.03*	-	-	-	-	*9.89*	-
Non-metallic minerals	*0.19*	*0.21*	*0.39*	*0.25*	*0.25*	*0.26*	*0.25*	*6.43*	*-2.64*
Paper, pulp and print	*0.00*	*0.01*	*0.10*	*0.03*	*0.04*	*0.04*	*0.03*	*33.48*	*-6.80*
Other industry	*0.08*	*0.05*	*0.18*	*0.17*	*0.18*	*0.18*	*0.18*	*7.07*	-
Res, comm & pub serv[1]	0.00	0.00	-	-	-	-	-	-	-
Non-energy use	0.03	0.05	0.02	-	-	-	-	-3.02	-
Coking coal	**1.23**	**1.65**	**1.52**	**1.77**	**1.85**	**2.22**	**2.00**	**1.77**	**1.64**
Total electricity and heat	-	-	-	-	-	-	-	-	-
Main activity producers	-	-	-	-	-	-	-	-	-
Autoproducers	-	-	-	-	-	-	-	-	-
Patent fuel/BKB plants	-	-	-	-	-	-	-	-	-
Coke ovens	1.23	1.65	1.52	1.77	1.85	2.22	1.99	1.77	1.62
Blast furnace inputs	-	-	-	-	-	-	-	-	-
Gas manufacture	-	-	-	-	-	-	-	-	-
Industry sector	-	-	-	-	-	-	-	-	-
Iron and steel	-	-	-	-	-	-	-	-	-
Chemical	-	-	-	-	-	-	-	-	-
Non-metallic minerals	-	-	-	-	-	-	-	-	-
Paper, pulp and print	-	-	-	-	-	-	-	-	-
Other industry	-	-	-	-	-	-	-	-	-
Res, comm & pub serv[1]	-	-	-	-	-	-	-	-	-
Non-energy use	-	-	-	-	-	-	-	-	-
Brown coal/lignite	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
Total electricity and heat	-	-	-	-	-	-	-	-	-
Main activity producers	-	-	-	-	-	-	-	-	-
Autoproducers	-	-	-	-	-	-	-	-	-
Patent fuel/BKB plants	-	-	-	-	-	-	-	-	-
Coke ovens	-	-	-	-	-	-	-	-	-
Gas manufacture	-	-	-	-	-	-	-	-	-
Industry sector	-	-	-	-	-	-	-	-	-
Iron and steel	-	-	-	-	-	-	-	-	-
Chemical	-	-	-	-	-	-	-	-	-
Non-metallic minerals	-	-	-	-	-	-	-	-	-
Paper, pulp and print	-	-	-	-	-	-	-	-	-
Other industry	-	-	-	-	-	-	-	-	-
Res, comm & pub serv[1]	-	-	-	-	-	-	-	-	-
Non-energy use	-	-	-	-	-	-	-	-	-

Source: *IEA/OECD Energy Statistics of OECD Countries*

(1) Residential, commercial and public services.

* Please refer to notes in *Principles and Definitions*.

Sweden

7. FUEL PRICES TO END USERS*

	1978[1]	1980	1990	2000	2004	2005	2006	2007	2008
				(US dollars / tce)					
For electricity generation									
Steam coal	50.00	91.90	..	..	..	..	..	..	..
Heavy fuel oil	67.15	145.18	77.87	..	..	..	..	..	..
Natural gas	..	..	..	..	..	..	..	..	..
For industry									
Steam coal	77.55	93.41	92.56	..	..	..	..	..	..
Coking coal	64.11	72.84	..	..	..	..	..	..	..
High sulphur fuel oil	80.71	171.39	x	x	x	x	x	x	x
Low sulphur fuel oil	..	..	270.45	320.71	554.94	623.71	680.48	756.03	903.35
Natural gas	..	..	..	..	..	..	..	..	..
				(Swedish crowns / unit)[2]					
For electricity generation									
Steam coal	215	370	..	..	..	..	..	..	..
Heavy fuel oil	416	842	632	..	..	..	..	..	..
Natural gas	..	..	..	..	..	..	..	..	..
For industry									
Steam coal	321	362	502	..	..	..	..	..	..
Coking coal	267	284	..	..	..	..	..	..	..
High sulphur fuel oil	500	994	x	x	x	x	x	x	x
Low sulphur fuel oil	..	..	2195	4029	5591	6391	6881	7007	8173
Natural gas	..	..	..	..	..	..	..	..	..

Source: *IEA/OECD Energy Prices & Taxes*

(1) Earliest year for which split by coal type is available.

(2) For steam coal, coking coal and heavy fuel oil per metric tonne; for natural gas per 10^7 kilocalories GCV.

* Please refer to notes in *Principles and Definitions*.

8. COAL TRADE BY TYPE OF COAL*

(Mtce)

	1973	1980	1990	2000	2004	2005	2006	2007	2008e
Total imports	**2.42**	**2.52**	**3.81**	**3.47**	**3.78**	**3.68**	**3.36**	**3.57**	**3.31**
Hard coal	0.98	2.08	3.40	3.05	3.14	3.17	3.04	3.15	2.85
Coking coal	*..*	*1.74*	*1.35*	*1.86*	*1.84*	*2.00*	*2.10*	*2.03*	*2.08*
Steam coal	*..*	*0.34*	*2.05*	*1.19*	*1.29*	*1.17*	*0.93*	*1.12*	*0.77*
Brown coal / lignite	-	-	0.00	-	-	-	-	-	-
Peat	-	-	0.10	0.10	0.16	0.13	0.11	0.16	0.16
Coal products[1]	1.44	0.44	0.31	0.32	0.48	0.38	0.21	0.26	0.31
Total exports	**0.02**	**0.11**	**0.04**	**0.03**	**0.04**	**0.04**	**0.03**	**0.03**	**0.04**
Hard coal	0.01	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.01
Coking coal	*..*	-	-	-	-	-	-	-	-
Steam coal	*..*	*0.00*	*0.00*	*0.00*	*0.01*	*0.00*	*0.00*	*0.00*	*0.01*
Brown coal / lignite	-	0.00	-	-	-	-	-	-	-
Peat	-	-	-	-	-	-	-	-	-
Coal products[1]	0.01	0.11	0.04	0.03	0.03	0.04	0.03	0.03	0.03

Source: *IEA/OECD Energy Balances of OECD Countries, IEA/OECD Energy Statistics of OECD Countries*

(1) Coal products includes products derived from coal, for example: coke, coal tar, briquettes, patent fuels.

* Please refer to notes in *Principles and Definitions*.

Sweden

9. HARD COAL IMPORTS BY ORIGIN*

(thousand tonnes)

	1978[1]	1980	1990	2000	2004	2005	2006	2007	2008e
Hard Coal	**1545**	**2182**	**3543**	**3092**	**3186**	**3203**	**3052**	**3180**	**2856**
Coking Coal	**1239**	**1790**	**1315**	**1814**	**1802**	**1955**	**2052**	**1981**	**2034**
Australia	-	-	449 e	990	1350	1000	1246	1186	1099
Canada	78	159	102 e	54	-	-	-	-	-
Czech Republic	99	123	-	-	-	-	-	-	-
Germany	231	-	-	-	-	-	-	-	-
Poland	71	1	-	-	-	22	133	-	-
United Kingdom	5	-	-	-	-	-	-	-	-
United States	338	1105	764 e	570	426	462	352	401	562
Other OECD	-	-	-	-	-	1	-	-	-
China, People's Rep.	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-
South Africa	-	-	-	-	-	-	1	-	-
Former USSR[2]	417	402	-	-	-	-	-	-	-
Russia[3]	-	-	-	-	-	*470*	*320*	*394*	*373*
Other Former USSR[3]	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	200	26	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-
Non-specified/other	-	-	-	-	-	-	-	-	-
Steam coal	**306**	**392**	**2228**	**1278**	**1384**	**1248**	**1000**	**1199**	**822**
Australia	-	6	187 e	83	122	370	111	130	40
Canada	-	28	1 e	-	-	-	-	-	-
Czech Republic	8	11	6 e	-	-	-	-	-	-
Germany	42	-	7 e	-	4	3	28	7	4
Poland	174	171	732 e	698	372	127	122	303	54
United Kingdom	30	31	103 e	15	-	2	9	8	5
United States	-	58	117 e	25	2	30	5	22	5
Other OECD	-	14	8 e	16	5	23	29	38	72
China, People's Rep.	-	-	8 e	-	-	-	-	-	-
Colombia	-	-	108 e	120	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-
South Africa	-	-	-	-	-	-	-	-	-
Former USSR[2]	52	73	-	-	-	-	-	-	-
Russia[3]	-	-	*573*	*271*	*458*	*377*	*442*	*313*	*391*
Other Former USSR[3]	-	-	-	*50*	*320*	*263*	*254*	*378*	*240*
Venezuela	-	-	375 e	-	101	53	-	-	11
Vietnam	-	-	-	-	-	-	-	-	-
Non-specified/other	-	-	3 e	-	-	-	-	-	-

Source: IEA/OECD Coal Statistics

(1) Earliest year for which split by coal type is available.

(2) If no detail.

(3) Data for former republics are not available separately for some OECD member countries.

* Please refer to notes in *Principles and Definitions*.

Sweden

12. COAL IMPORT VALUES BY ORIGIN*

(average unit value, CIF, US$/tonne)

	1988	1990	1995	2003	2004	2005	2006	2007	2008
Coking coal[1]	**..**	**..**	**60.87**	**66.28**	**75.53**	**94.31**	**57.76**	**65.83**	**138.31**
Imports from:									
Australia	..	..	65.10	..	..	..	..	..	..
Canada	..	..	..	..	..	..	..	..	..
Czech Republic	..	..	..	..	..	..	..	..	..
Poland	..	..	55.47	67.15	75.73	96.64	..	..	..
United States	..	..	61.89	..	..	..	..	..	..
China	..	..	..	..	..	..	..	..	..
Colombia	..	..	..	..	..	..	..	..	..
South Africa	..	..	..	..	..	..	..	..	..
Former USSR[2]	..	..	47.54	49.23	70.63	65.37	57.76	65.83	138.31
Steam coal[3]	**..**	**..**	**55.37**	**58.30**	**86.28**	**111.18**	**117.43**	**124.51**	**227.64**
Imports from:									
Australia	..	..	67.27	69.86	107.17	152.75	151.35	161.71	328.87
Canada	..	..	..	..	..	..	..	..	..
Czech Republic	..	..	..	..	..	..	..	..	3000.00
Poland	..	..	48.74	48.35	55.59	75.95	71.82	84.84	239.79
United States	..	..	66.14	66.68	90.11	91.28	124.76	138.55	181.58
China	..	..	..	..	..	..	..	..	..
Colombia	..	..	53.77	..	..	..	..	..	..
South Africa	..	..	61.06	50.79	..	..	..	..	..
Former USSR[2]	..	..	43.13	45.12	61.97	74.35	78.65	85.79	139.75

Source: IEA/OECD Coal Statistics

Note: On occasion, shipment of extremely small quantities of high valued coal results in high import costs.

(1) Weighted average of individual countries using import volumes as weights. Prices exclude intra-EU trade.

(2) Former USSR until 1991, Russia starting in 1992.

(3) Bituminous steam coal only. Weighted average of individual countries using volumes as weights. Prices exclude intra-EU trade.

* Please refer to notes in *Principles and Definitions*.

Switzerland*

Chart 1: TPES by fuel (Mtce)

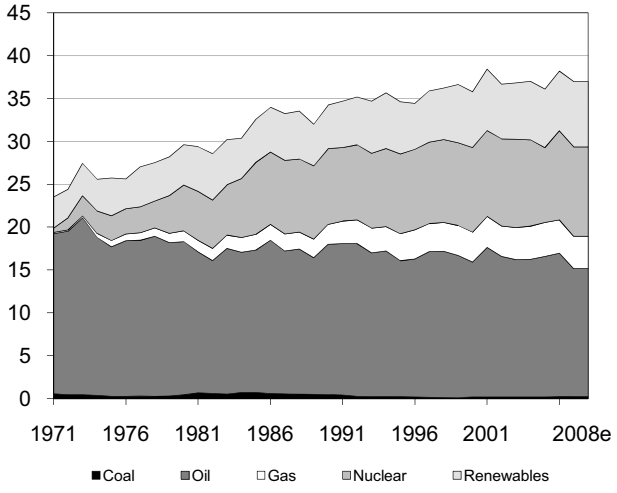


Chart 2: Coal supply indicators (1971 = 100)

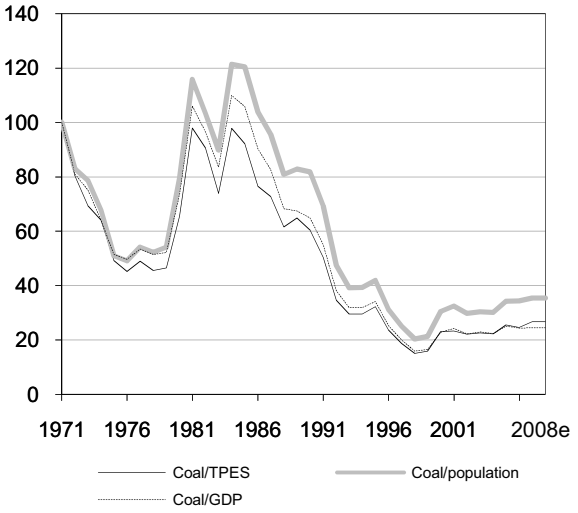


Chart 3: Primary coal supply (Mtce)

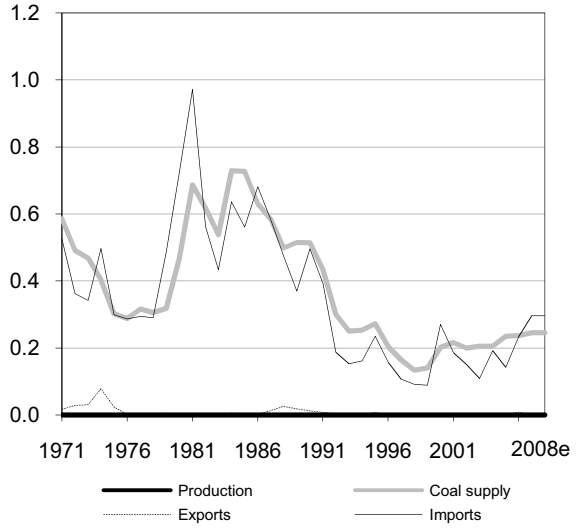


Chart 4: Coal consumption (Mtce)

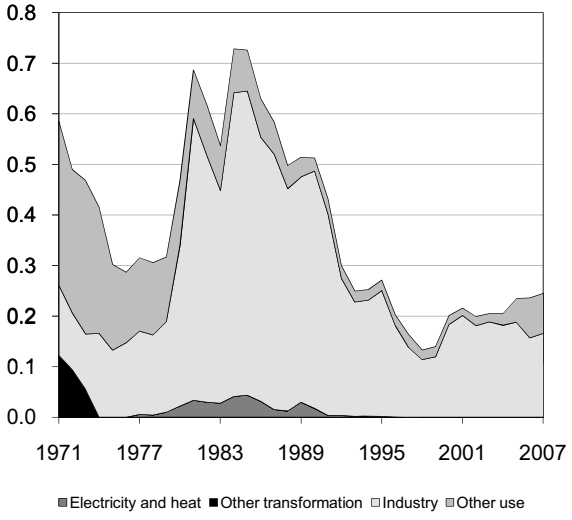


Chart 5: Electricity generation by fuel (TWh)

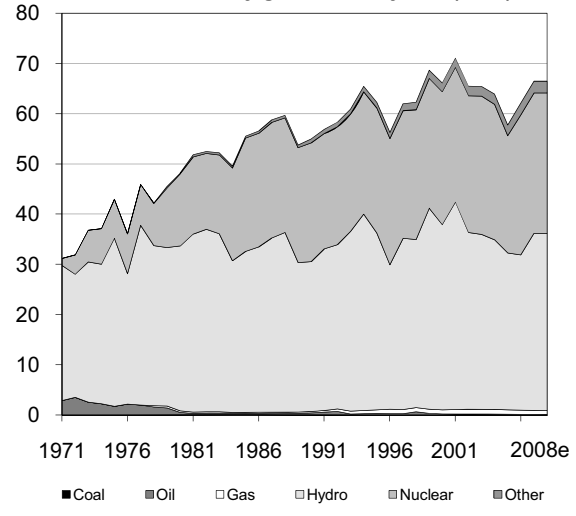
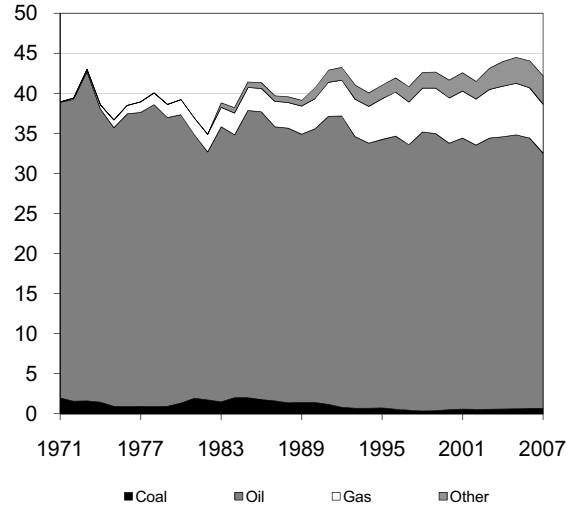


Chart 6: CO_2 emissions by fuel (Mt CO_2)



*Please refer to notes in *Principles and Definitions* . Peat is included in coal for all charts.

Switzerland

1. TOTAL PRIMARY ENERGY SUPPLY (TPES) BY FUEL*

	1973	1980	1990	2000	2006	2007	2008e	Average annual percent change 73-90	90-07
TPES (Mtce)	**27.01**	**28.62**	**33.99**	**34.94**	**38.54**	**36.74**	**38.08**	**1.36**	**0.46**
Coal and peat	0.47	0.47	0.51	0.20	0.24	0.25	0.23	0.55	-4.25
Oil	20.64	17.87	17.51	15.75	16.76	14.93	15.88	-0.96	-0.93
Gas	0.21	1.24	2.33	3.48	3.86	3.76	4.01	15.08	2.86
Comb. renew/waste	0.34	0.67	1.31	1.81	2.89	3.00	3.02	8.15	5.01
Nuclear	2.35	5.35	8.83	9.88	10.40	10.44	10.36	8.10	0.99
Hydro	3.43	4.03	3.66	4.53	3.80	4.33	4.43	0.39	0.99
Geothermal	-	-	0.09	0.13	0.22	0.23	0.25	-	5.97
Solar, wind, tide	-	-	0.01	0.04	0.04	0.04	0.05	-	8.60
Net electricity trade[1]	-0.43	-1.01	-0.26	-0.87	0.33	-0.25	-0.14	-2.94	-0.13
Heat[2]	-	-	-	-	-	-	-	-	-

Source: *IEA/OECD Energy Balances of OECD Countries*

(1) Net trade between OECD and non-OECD countries.

(2) Ambient heat from heat pumps used in the transformation sector.

2. ENERGY SUPPLY, GDP AND POPULATION*

	1973	1980	1990	2000	2006	2007	2008e	Average annual percent change 73-90	90-07
GDP (2000 bil. US$)	177	181	225	250	275	285	289	1.43	1.40
TPES/GDP[1]	0.15	0.16	0.15	0.14	0.14	0.13	0.13	-0.06	-0.92
Population (millions)	6.4	6.4	6.8	7.2	7.5	7.5	7.5	0.32	0.59
TPES/population[1]	4.19	4.48	5.00	4.88	5.17	4.89	5.07	1.04	-0.13
TPES/GDP[2]	109.3	113.3	108.2	100.0	100.1	92.4	94.2	-0.06	-0.92
Coal and peat supply/GDP[2]	328.8	321.5	283.6	100.0	106.6	107.0	98.7	-0.87	-5.57
Elec. consumption/GDP[2]	78.3	93.1	99.7	100.0	100.1	96.3	..	1.43	-0.20
Elec. generation (TWh)	37	48	55	66	62	66	67	2.39	1.12
Industrial production[2]	64.3	65.0	79.1	100.0	108.8	119.3	120.7	1.22	2.45

Source: *IEA/OECD Energy Balances of OECD Countries* , *OECD Main Economic Indicators*

(1) TPES/GDP in units of tce/2000 thousand US$, TPES/population in units of tce/capita.

(2) As index, 2000 = 100

3. COAL AND PEAT PRODUCTION BY TYPE*

	1978[1]	1980	1990	2000	2006	2007	2008e	Average annual percent change 78-90	90-07
Mtce:									
Coking coal	-	-	-	-	-	-	-	-	-
Steam coal	-	-	-	-	-	-	-	-	-
Brown coal	-	-	-	-	-	-	-	-	-
Peat	-	-	-	-	-	-	-	-	-
Mt:									
Coking coal	-	-	-	-	-	-	-	-	-
Steam coal	-	-	-	-	-	-	-	-	-
Brown coal	-	-	-	-	-	-	-	-	-
Peat	-	-	-	-	-	-	-	-	-

Source: *IEA/OECD Energy Balances of OECD Countries, IEA/OECD Energy Statistics of OECD Countries*

(1) Earliest year for which split by coal type is available.

* Please refer to notes in *Principles and Definitions* .

Switzerland

4. FINAL CONSUMPTION OF ENERGY BY FUEL*

(Mtce)

	1973	1980	1990	2000	2005	2006	2007	Average annual percent change 73-90	90-07
TFC[1]	**23.81**	**23.74**	**26.37**	**27.79**	**30.16**	**30.01**	**29.16**	**0.60**	**0.59**
Coal and peat	0.41	0.45	0.50	0.20	0.23	0.24	0.25	1.07	-4.05
Oil	19.15	17.20	16.57	16.18	16.39	16.17	15.36	-0.85	-0.45
Gas	0.34	1.03	2.20	3.26	3.77	3.68	3.61	11.65	2.95
Comb. renew/wastes	0.34	0.46	0.87	1.09	1.95	2.02	2.09	5.63	5.26
Geothermal	-	-	0.09	0.13	0.20	0.22	0.23	-	5.97
Solar, wind, tide	-	-	0.01	0.03	0.04	0.04	0.04	-	7.86
Electricity	3.56	4.33	5.77	6.43	7.04	7.10	7.06	2.88	1.19
Heat	-	0.27	0.36	0.45	0.55	0.55	0.53	-	2.34
of which:									
Total industry	**5.71**	**5.55**	**4.79**	**5.51**	**5.86**	**5.91**	**5.78**	**-1.02**	**1.11**
Coal and peat	0.11	0.32	0.47	0.18	0.19	0.16	0.17	8.90	-5.93
Oil	4.16	3.05	1.07	1.24	1.22	1.21	1.09	-7.68	0.09
Gas	0.07	0.51	0.84	1.08	1.19	1.24	1.27	15.55	2.44
Comb. renew/wastes	-	0.17	0.22	0.58	0.71	0.74	0.70	-	6.91
Geothermal	-	-	-	0.01	0.01	0.02	0.02	-	-
Solar, wind, tide	-	-	-	0.00	0.00	0.00	0.00	-	-
Electricity	1.36	1.46	2.12	2.22	2.32	2.33	2.33	2.64	0.57
Heat	-	0.04	0.07	0.19	0.22	0.22	0.21	-	6.87
Total transport	**5.05**	**5.28**	**7.35**	**8.33**	**8.33**	**8.37**	**8.53**	**2.23**	**0.88**
Coal and peat	-	-	-	-	-	-	-	-	-
Oil	4.80	5.03	7.03	8.00	7.96	7.98	8.14	2.27	0.86
Gas	-	-	-	-	-	-	-	-	-
Comb. renew/wastes	-	-	-	-	0.01	0.01	0.02	-	-
Electricity	0.25	0.26	0.32	0.32	0.37	0.38	0.38	1.42	1.05
Residential	**1.81**	**7.71**	**7.47**	**7.94**	**8.92**	**8.77**	**8.09**	**8.69**	**0.47**
Coal and peat	0.30	0.13	0.02	0.02	0.05	0.08	0.08	-14.68	8.32
Oil	-	5.63	4.75	4.17	4.43	4.25	3.68	-	-1.49
Gas	0.27	0.39	0.87	1.23	1.45	1.40	1.34	7.22	2.59
Comb. renew/wastes	0.34	0.25	-	0.31	0.45	0.47	0.44	-	-
Geothermal	-	-	-	0.10	0.16	0.17	0.19	-	-
Solar, wind, tide	-	-	-	0.02	0.02	0.02	0.02	-	-
Electricity	0.90	1.24	1.67	1.93	2.17	2.17	2.15	3.72	1.48
Heat	-	0.07	0.15	0.16	0.20	0.20	0.19	-	1.42
Comm & public services	**1.03**	**3.82**	**4.78**	**4.64**	**5.52**	**5.39**	**5.25**	**9.48**	**0.55**
Coal and peat	-	-	0.00	-	-	-	-	-	-
Oil	-	2.21	2.63	1.80	1.76	1.64	1.43	-	-3.55
Gas	-	0.13	0.42	0.72	0.80	0.75	0.71	-	3.10
Comb. renew/waste	-	-	0.03 e	0.16 e	0.73	0.75	0.88	-	21.90
Geothermal	-	-	-	0.02	0.02	0.03	0.03	-	-
Solar, wind, tide	-	-	-	0.00	0.00	0.00	0.00	-	-
Electricity	1.03	1.33	1.56	1.83	2.06	2.08	2.07	2.49	1.70
Heat	-	0.16	0.14	0.10	0.13	0.13	0.13	-	-0.49
Non-energy use	**1.07**	**0.88**	**0.80**	**0.81**	**0.78**	**0.85**	**0.82**	**-1.72**	**0.16**
Coal and peat	-	0.00	0.00	-	-	-	-	-	-
Oil	1.07	0.88	0.79	0.81	0.78	0.85	0.82	-1.75	0.20
Gas	-	-	-	-	-	-	-	-	-

Source: *IEA/OECD Energy Balances of OECD Countries*

(1) Total Final Consumption (TFC) excludes use in transformation and energy sectors.

* Please refer to notes in *Principles and Definitions*.

Switzerland

5. COAL BALANCE*

(Mtce)

	1973	1980	1990	2000	2006	2007	2008e	Average annual percent change 73-90	90-07
Production	-	-	-	-	-	-	-	-	-
Imports	0.3	0.7	0.5	0.3	0.2	0.3	0.2	2.2	-3.0
Exports	-0.0	-	-0.0	-	-0.0	-	-	-5.2	-
Stock changes	0.2	-0.3	0.0	-0.1	0.0	-0.1	0.0	x	x
Primary supply	**0.5**	**0.5**	**0.5**	**0.2**	**0.2**	**0.2**	**0.2**	**0.5**	**-4.3**
Statistical difference	**-**	**-**	**-0.0**	**-**	**-**	**-**	**..**	**x**	**x**
Total transformation	**-0.0**	**-0.0**	**-0.0**	**-**	**-**	**-**	**..**	**-3.6**	**-**
Electricity and heat gen.	-	-0.0	-0.0	-	-	-	..	-	-
Main activity producers (1)	-	*-0.0*	*-0.0*	-	-	-	..	-	-
Autoproducers	-	*-0.0*	*-0.0*	-	-	-	..	-	-
Gas works	-0.0	-	-	-	-	-	..	-	-
Coal transformation(2)	-	-	-	-	-	-	..	-	-
BKB plants	-	-	-	-	-	-	..	-	-
Blast furnaces	-	-	-	-	-	-	..	-	-
Coke ovens	-	-	-	-	-	-	..	-	-
Patent fuel plants	-	-	-	-	-	-	..	-	-
Other transformation(3)	-	-	-	-	-	-	..	-	-
Own use	**-0.0**	**-**	**-**	**-**	**-**	**-**	**..**	**-**	**-**
Distribution losses	**-**	**-**	**-**	**-**	**-**	**-**	**..**	**x**	**x**
Final consumption(4)	**0.4**	**0.4**	**0.5**	**0.2**	**0.2**	**0.2**	**..**	**1.1**	**-4.0**
Industry sector(5)	0.1	0.3	0.5	0.2	0.2	0.2	..	8.9	-5.9
Iron and steel	*0.0*	-	-	-	-	-	..	-	-
Chemical	*0.0*	*0.0*	*0.0*	-	-	-	..	*-7.5*	-
Non-metallic minerals	*0.0*	*0.2*	*0.4*	*0.2*	*0.1*	*0.1*	..	*19.4*	*-5.7*
Paper, pulp and print	*0.0*	*0.0*	*0.0*	-	-	-	..	*3.7*	-
Transport sector(6)	-	-	-	-	-	-	..	-	-
Other sectors(7)	0.3	0.1	0.0	0.0	0.1	0.1	..	-14.4	8.0
Comm. and pub. services	-	-	*0.0*	-	-	-	..	-	-
Residential	*0.3*	*0.1*	*0.0*	*0.0*	*0.1*	*0.1*	..	*-14.7*	*8.3*
Non-energy use	-	0.0	0.0	-	-	-	..	-	-

Source: *IEA/OECD Energy Balances of OECD Countries*

(1) Main activity electricity and heat generation includes district heating.

(2) Coal transformation refers to the transformation of coal and peat to secondary and tertiary products (mainly coke, briquettes, coke oven gas and blast furnace gas).

(3) Other transformation includes liquefaction and non-specified transformation.

(4) Final Consumption includes non-energy use and energy use (industry, transport and other sectors).

(5) Please refer to notes in *Principles and Definitions* for detailed explanation.

(6) Transport sector includes rail and inland waterways.

(7) Other sectors includes commercial and public services, agriculture, and residential.

* "Coal" refers to all types of coal, primary (anthracite, coking coal, other bituminous coal, sub-bituminous coal, lignite/brown coal, peat) and derived fuels (including patent fuel, BKB/peat briquettes, coke oven coke, gas coke, coal tar, coke oven gas, gas works gas, blast furnace gas and oxygen steel furnace gas). Quantities have been converted to Mtce using calorific values reported by the respective countries. Please refer to notes in *Principles and Definitions*.

Switzerland

6. USE OF COAL FOR SELECTED END-USES*

(million tonnes)

	1978	1980	1990	2000	2005	2006	2007	Average annual percent change 78-90	90-07
Steam coal	**0.15**	**0.32**	**0.48**	**0.18**	**0.20**	**0.17**	**0.17**	**10.26**	**-5.84**
Total electricity and heat	0.01	0.02	0.02	-	-	-	-	12.70	-
Main activity producers	*0.00*	*0.02*	*0.02*	-	-	-	-	*26.63*	-
Autoproducers	*0.00*	*0.01*	*0.00*	-	-	-	-	-	-
Patent fuel/BKB plants	-	-	-	-	-	-	-	-	-
Coke ovens	-	-	-	-	-	-	-	-	-
Blast furnace inputs	-	-	-	-	-	-	-	-	-
Gas manufacture	-	-	-	-	-	-	-	-	-
Industry sector	0.10	0.28	0.46	0.17	0.18	0.15	0.16	13.55	-6.00
Iron and steel	-	-	-	-	-	-	-	-	-
Chemical	*0.01*	*0.03*	*0.01*	-	-	-	-	*-6.82*	-
Non-metallic minerals	*0.05*	*0.18*	*0.40*	*0.16*	*0.18*	*0.15*	*0.15*	*19.33*	*-5.61*
Paper, pulp and print	*0.02*	*0.04*	*0.04*	-	-	-	-	*6.70*	-
Other industry	*0.02*	*0.03*	*0.01*	*0.01*	*0.01*	*0.01*	*0.01*	*-4.17*	*-1.68*
Res, comm & pub serv[1]	0.03	0.01	0.00	0.01	0.01	0.01	0.01	-15.46	7.65
Non-energy use	0.02	0.00	0.00	-	-	-	-	-12.55	-
Coking coal	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
Total electricity and heat	-	-	-	-	-	-	-	-	-
Main activity producers	-	-	-	-	-	-	-	-	-
Autoproducers	-	-	-	-	-	-	-	-	-
Patent fuel/BKB plants	-	-	-	-	-	-	-	-	-
Coke ovens	-	-	-	-	-	-	-	-	-
Blast furnace inputs	-	-	-	-	-	-	-	-	-
Gas manufacture	-	-	-	-	-	-	-	-	-
Industry sector	-	-	-	-	-	-	-	-	-
Iron and steel	-	-	-	-	-	-	-	-	-
Chemical	-	-	-	-	-	-	-	-	-
Non-metallic minerals	-	-	-	-	-	-	-	-	-
Paper, pulp and print	-	-	-	-	-	-	-	-	-
Other industry	-	-	-	-	-	-	-	-	-
Res, comm & pub serv[1]	-	-	-	-	-	-	-	-	-
Non-energy use	-	-	-	-	-	-	-	-	-
Brown coal/lignite	**-**	**-**	**0.01**	**0.01**	**0.04**	**0.09**	**0.09**	**-**	**11.68**
Total electricity and heat	-	-	-	-	-	-	-	-	-
Main activity producers	-	-	-	-	-	-	-	-	-
Autoproducers	-	-	-	-	-	-	-	-	-
Patent fuel/BKB plants	-	-	-	-	-	-	-	-	-
Coke ovens	-	-	-	-	-	-	-	-	-
Gas manufacture	-	-	-	-	-	-	-	-	-
Industry sector	-	-	-	-	-	-	-	-	-
Iron and steel	-	-	-	-	-	-	-	-	-
Chemical	-	-	-	-	-	-	-	-	-
Non-metallic minerals	-	-	-	-	-	-	-	-	-
Paper, pulp and print	-	-	-	-	-	-	-	-	-
Other industry	-	-	-	-	-	-	-	-	-
Res, comm & pub serv[1]	-	-	0.01	0.01	0.04	0.09	0.09	-	11.68
Non-energy use	-	-	-	-	-	-	-	-	-

Source: *IEA/OECD Energy Statistics of OECD Countries*

(1) Residential, commercial and public services.

* Please refer to notes in *Principles and Definitions*.

Switzerland

7. FUEL PRICES TO END USERS*

	1978[1]	1980	1990	2000	2004	2005	2006	2007	2008
				(US dollars / tce)					
For electricity generation									
Steam coal	x	x	x	x	x	x	x	x	x
Heavy fuel oil	..	..	..	..	..	..	..	..	..
Natural gas	..	..	..	..	..	..	..	..	..
For industry									
Steam coal	68.81	95.71	72.45	60.13	110.08	110.03	111.25	145.85	252.48
Coking coal	..	127.61	x	x	x	x	x	x	x
High sulphur fuel oil	82.08	152.83	118.75	x	x	x	x	x	x
Low sulphur fuel oil	..	..	..	139.45	152.85	224.74	253.83	286.53	455.56
Natural gas	153.66	191.14	182.84	173.40	274.07	313.15	379.24	448.47	579.73
				(Swiss francs / unit)[2]					
For electricity generation									
Steam coal	x	x	x	x	x	x	x	x	x
Heavy fuel oil	..	..	..	..	..	..	..	..	..
Natural gas	..	..	..	..	..	..	..	..	..
For industry									
Steam coal	105.5	137.5	86.3	87.0	117.3	117.5	119.5	150.0	234.5
Coking coal	..	220.0	x	x	x	x	x	x	x
High sulphur fuel oil	201.3	351.3	226.2	x	x	x	x	x	x
Low sulphur fuel oil	..	..	..	322.8	260.5	384.0	436.3	471.5	677.0
Natural gas	353.3	411.9	326.5	376.3	437.9	501.6	611.1	691.9	807.7

Source: *IEA/OECD Energy Prices & Taxes*

(1) Earliest year for which split by coal type is available.

(2) For steam coal, coking coal and heavy fuel oil per metric tonne; for natural gas per 10^7 kilocalories GCV.

* Please refer to notes in *Principles and Definitions*.

8. COAL TRADE BY TYPE OF COAL*

(Mtce)

	1973	1980	1990	2000	2004	2005	2006	2007	2008e
Total imports	**0.34**	**0.72**	**0.50**	**0.27**	**0.19**	**0.14**	**0.23**	**0.30**	**0.23**
Hard coal	0.13	0.55	0.46	0.24	0.17	0.10	0.15	0.21	0.15
Coking coal	..	-	-	-	-	-	-	-	-
Steam coal	..	*0.55*	*0.46*	*0.24*	*0.17*	*0.10*	*0.15*	*0.21*	*0.15*
Brown coal / lignite	-	-	0.01	0.00	0.00	0.03	0.06	0.06	0.06
Peat	-	-	-	-	-	-	-	-	-
Coal products[1]	0.21	0.17	0.03	0.03	0.02	0.02	0.02	0.02	0.02
Total exports	**0.03**	**-**	**0.01**	**-**	**-**	**-**	**0.01**	**-**	**-**
Hard coal	0.00	-	0.01	-	-	-	0.00	-	-
Coking coal	..	-	-	-	-	-	-	-	-
Steam coal	..	-	*0.01*	-	-	-	*0.00*	-	-
Brown coal / lignite	-	-	-	-	-	-	-	-	-
Peat	-	-	-	-	-	-	-	-	-
Coal products[1]	0.03	-	0.00	-	-	-	0.01	-	-

Source: *IEA/OECD Energy Balances of OECD Countries, IEA/OECD Energy Statistics of OECD Countries*

(1) Coal products includes products derived from coal, for example: coke, coal tar, briquettes, patent fuels.

* Please refer to notes in *Principles and Definitions*.

Switzerland

9. HARD COAL IMPORTS BY ORIGIN*

(thousand tonnes)

	1978[1]	1980	1990	2000	2004	2005	2006	2007	2008e
Hard Coal	**141**	**574**	**482**	**250**	**177**	**100**	**152**	**224**	**152**
Coking Coal	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
Australia	-	-	-	-	-	-	-	-	-
Canada	-	-	-	-	-	-	-	-	-
Czech Republic	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-
Poland	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-
United States	-	-	-	-	-	-	-	-	-
Other OECD	-	-	-	-	-	-	-	-	-
China, People's Rep.	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-
South Africa	-	-	-	-	-	-	-	-	-
Former USSR[2]	-	-	-	-	-	-	-	-	-
Russia[3]	-	-	-	-	-	-	-	-	-
Other Former USSR[3]	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-
Non-specified/other	-	-	-	-	-	-	-	-	-
Steam coal	**141**	**574**	**482**	**250**	**177**	**100**	**152**	**224**	**152**
Australia	-	-	-	-	-	-	-	-	-
Canada	-	-	-	-	-	-	-	-	-
Czech Republic	14	11	-	-	-	-	-	-	-
Germany	79	124	55	12	8	4	5	4	5
Poland	8	53	1	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	5	-
United States	-	17	-	-	-	-	-	-	-
Other OECD	17	31	6	2	2	2	1	29	36
China, People's Rep.	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-
South Africa	23	337	420	234	163	91	142	181	106
Former USSR[2]	-	-	-	-	-	-	-	-	-
Russia[3]	-	-	-	*2*	*3*	*3*	*4*	*5*	*5*
Other Former USSR[3]	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	1	-	-	-	-
Non-specified/other	-	1	-	-	-	-	-	-	-

Source: IEA/OECD Coal Statistics

(1) Earliest year for which split by coal type is available.

(2) If no detail.

(3) Data for former republics are not available separately for some OECD member countries.

* Please refer to notes in *Principles and Definitions*.

Turkey*

Chart 1: TPES by fuel (Mtce)

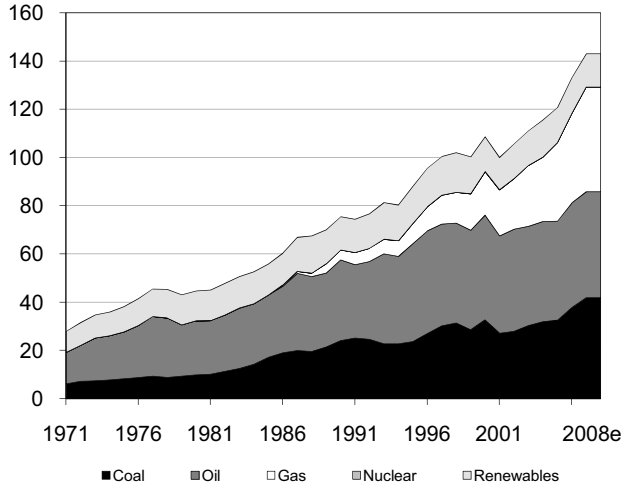


Chart 2: Coal supply indicators (1971 = 100)

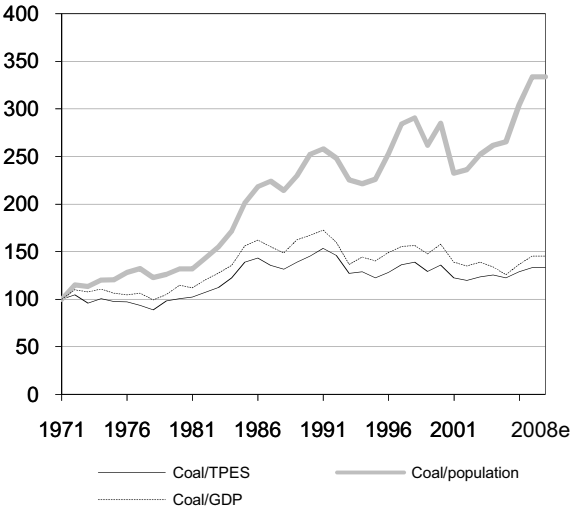


Chart 3: Primary coal supply (Mtce)

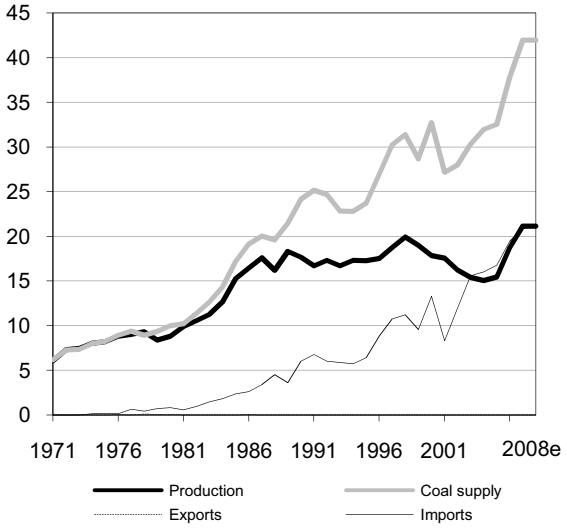


Chart 4: Coal consumption (Mtce)

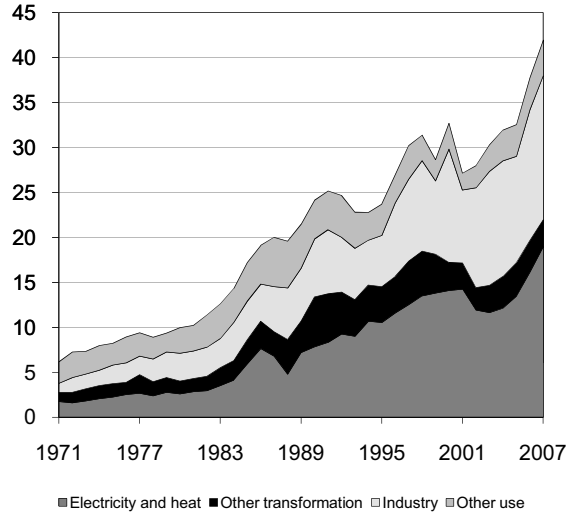


Chart 5: Electricity generation by fuel (TWh)

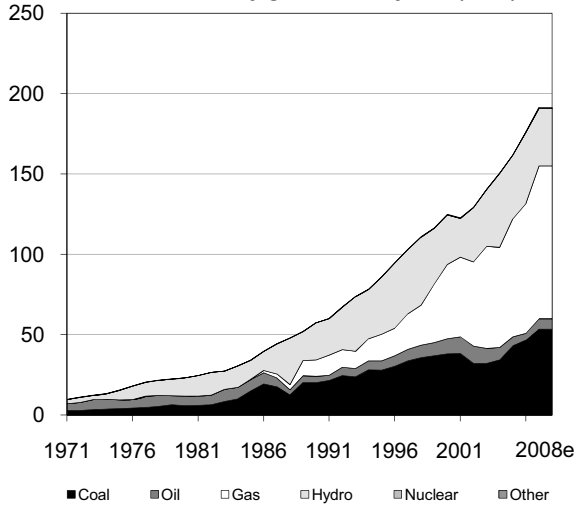
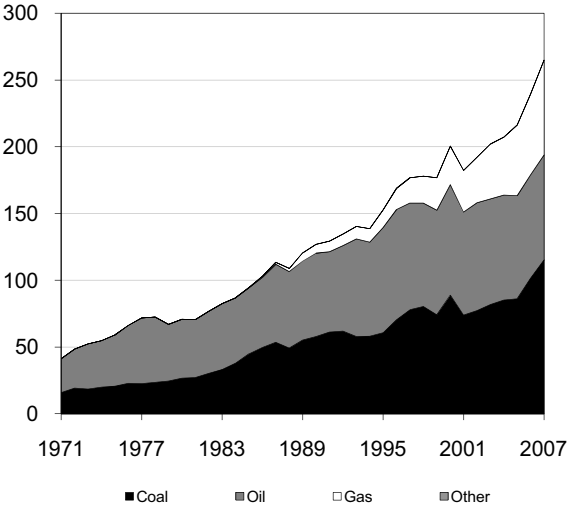


Chart 6: CO_2 emissions by fuel (Mt CO_2)



*Please refer to notes in *Principles and Definitions* . Peat is included in coal for all charts.

Turkey

1. TOTAL PRIMARY ENERGY SUPPLY (TPES) BY FUEL*

	1973	1980	1990	2000	2006	2007	2008e	Average annual percent change 73-90	90-07
TPES (Mtce)	**34.79**	**44.92**	**75.37**	**109.07**	**132.91**	**142.86**	**137.79**	**4.65**	**3.83**
Coal and peat	7.36	9.98	24.15	32.72	37.78	41.98	39.28	7.24	3.31
Oil	17.83	22.32	33.43	43.43	43.40	43.86	41.50	3.77	1.61
Gas	-	-	4.08	18.05	37.09	43.45	43.99	-	14.93
Comb. renew/waste	9.22	10.97	10.29	9.30	7.41	7.22	6.88	0.65	-2.06
Nuclear	-	-	-	-	-	-	-	-	-
Hydro	0.32	1.39	2.84	3.79	5.44	4.40	4.09	13.72	2.61
Geothermal	0.07	0.09	0.62	0.98	1.40	1.50	1.39	13.75	5.33
Solar, wind, tide	-	-	0.04	0.38	0.59	0.64	0.70	-	17.75
Net electricity trade(1)	-	0.16	-0.09	0.41	-0.20	-0.19	-0.03	-	4.55
Heat(2)	-	-	-	-	-	-	-	-	-

Source: *IEA/OECD Energy Balances of OECD Countries*

(1) Net trade between OECD and non-OECD countries.

(2) Ambient heat from heat pumps used in the transformation sector.

2. ENERGY SUPPLY, GDP AND POPULATION*

	1973	1980	1990	2000	2006	2007	2008e	Average annual percent change 73-90	90-07
GDP (2000 bil. US$)	88	112	186	267	356	372	384	4.50	4.16
TPES/GDP(1)	0.40	0.40	0.41	0.41	0.37	0.38	0.36	0.14	-0.31
Population (millions)	38.1	44.4	56.2	67.5	73.0	73.9	74.9	2.32	1.62
TPES/population(1)	0.91	1.01	1.34	1.62	1.82	1.93	1.84	2.28	2.17
TPES/GDP(2)	96.7	98.1	99.1	100.0	91.2	93.9	87.7	0.14	-0.31
Coal and peat supply/GDP(2)	68.1	72.7	105.8	100.0	86.5	92.0	83.3	2.62	-0.82
Elec. consumption/GDP(2)	31.4	48.6	67.2	100.0	110.4	114.2	..	4.59	3.17
Elec. generation (TWh)	12	23	58	125	176	192	199	9.44	7.33
Industrial production(2)	..	..	70.5	100.0	133.1	142.4	141.1	-	4.22

Source: *IEA/OECD Energy Balances of OECD Countries* , *OECD Main Economic Indicators*

(1) TPES/GDP in units of tce/2000 thousand US$, TPES/population in units of tce/capita.

(2) As index, 2000 = 100

3. COAL AND PEAT PRODUCTION BY TYPE*

	1978(1)	1980	1990	2000	2006	2007	2008e	Average annual percent change 78-90	90-07
Mtce:									
Coking coal	2.58	2.12	2.03	0.71	0.65	0.65	1.54	-2.00	-6.43
Steam coal	1.16	1.01	0.89	0.80	1.28	0.90	0.52	-2.20	0.10
Brown coal	5.55	5.65	14.76	16.32	16.77	19.58	19.58	8.49	1.68
Peat	-	-	-	-	-	-	-	-	-
Mt:									
Coking coal	2.96	2.44	1.82	0.74	0.63	0.68	1.62	-3.97	-5.61
Steam coal	1.33	1.16	0.92	1.66	1.69	1.78	1.02	-3.02	3.95
Brown coal	15.12	15.03	44.68	60.88	61.94	72.90	73.12	9.45	2.92
Peat	-	-	-	-	-	-	-	-	-

Source: *IEA/OECD Energy Balances of OECD Countries, IEA/OECD Energy Statistics of OECD Countries*

(1) Earliest year for which split by coal type is available.

* Please refer to notes in *Principles and Definitions* .

Turkey

4. FINAL CONSUMPTION OF ENERGY BY FUEL*

(Mtce)

	1973	1980	1990	2000	2005	2006	2007	Average annual percent change 73-90	90-07
TFC[1]	**28.38**	**37.60**	**57.25**	**82.64**	**93.47**	**103.52**	**109.26**	**4.21**	**3.88**
Coal and peat	4.18	5.95	10.74	15.49	15.34	18.11	19.97	5.70	3.72
Oil	13.63	18.14	29.10	37.32	37.29	39.53	39.93	4.56	1.88
Gas	0.06	0.06	1.03	7.01	14.35	17.93	20.08	18.63	19.06
Comb. renew/wastes	9.22	10.97	10.29	9.22	7.60	7.35	7.14	0.65	-2.13
Geothermal	0.07	0.09	0.52	0.88	1.32	1.28	1.31	12.60	5.56
Solar, wind, tide	-	-	0.04	0.37	0.55	0.57	0.60	-	17.27
Electricity	1.22	2.40	5.52	11.78	15.80	17.37	18.77	9.29	7.46
Heat	-	-	-	0.55	1.21	1.37	1.47	-	-
of which:									
Total industry	**5.30**	**9.35**	**15.57**	**28.20**	**30.33**	**33.47**	**33.81**	**6.54**	**4.67**
Coal and peat	1.63	3.09	6.43	12.61	11.81	14.56	16.04	8.42	5.53
Oil	2.88	4.76	5.06	6.86	5.81	4.45	2.03	3.37	-5.24
Gas	0.00	0.00	0.71	2.38	3.87	4.77	5.31	34.90	12.59
Comb. renew/wastes	-	-	-	-	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-	-	-
Solar, wind, tide	-	-	0.01	0.14	0.17	0.17	0.18	-	17.60
Electricity	0.79	1.49	3.36	5.66	7.45	8.15	8.78	8.88	5.81
Heat	-	-	-	0.55	1.21	1.37	1.47	-	-
Total transport	**6.26**	**7.84**	**13.18**	**16.80**	**17.75**	**20.01**	**22.79**	**4.48**	**3.27**
Coal and peat	0.75	0.26	0.02	0.00	-	-	-	-18.90	-
Oil	5.50	7.56	13.11	16.65	17.51	19.72	22.42	5.25	3.20
Gas	-	-	-	0.06	0.15	0.17	0.24	-	-
Comb. renew/wastes	-	-	-	-	-	0.03	0.02	-	-
Electricity	0.01	0.02	0.04	0.09	0.09	0.10	0.11	7.56	6.04
Residential	**14.40**	**17.44**	**20.76**	**25.13**	**27.59**	**28.42**	**29.61**	**2.18**	**2.11**
Coal and peat	1.81	2.59	4.29	2.88	3.53	3.55	3.93	5.21	-0.51
Oil	3.09	3.32	4.45	5.13	4.12	2.79	2.49	2.17	-3.35
Gas	0.05	0.05	0.07	3.85	6.83	8.83	9.86	2.62	33.34
Comb. renew/wastes	9.22	10.97	10.29	9.22	7.60	7.32	7.12	0.65	-2.14
Geothermal	0.07	0.09	0.52	0.88	1.32	1.28	1.31	12.60	5.56
Solar, wind, tide	-	-	0.03	0.24	0.38	0.40	0.42	-	17.13
Electricity	0.17	0.43	1.11	2.93	3.80	4.23	4.48	11.65	8.54
Heat	-	-	-	-	-	-	-	-	-
Comm & public services	**0.45**	**0.44**	**0.91**	**3.31**	**6.76**	**8.32**	**9.17**	**4.30**	**14.55**
Coal and peat	-	-	-	-	-	-	-	-	-
Oil	0.22	-	-	-	-	-	-	-	-
Gas	0.00	0.01	0.00	0.60	2.80	3.98	4.38	-9.07	64.55
Comb. renew/waste	-	-	-	-	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-	-	-
Solar, wind, tide	-	-	-	-	-	-	-	-	-
Electricity	0.22	0.44	0.91	2.71	3.95	4.34	4.79	8.81	10.26
Heat	-	-	-	-	-	-	-	-	-
Non-energy use	**0.81**	**1.20**	**4.01**	**5.03**	**6.32**	**8.25**	**8.34**	**9.83**	**4.40**
Coal and peat	-	-	-	-	-	-	-	-	-
Oil	0.81	1.20	3.76	4.90	5.63	8.06	8.05	9.41	4.58
Gas	-	-	0.25	0.13	0.69	0.19	0.29	-	0.84

Source: *IEA/OECD Energy Balances of OECD Countries*

(1) Total Final Consumption (TFC) excludes use in transformation and energy sectors.

* Please refer to notes in *Principles and Definitions*.

Turkey

5. COAL BALANCE*

(Mtce)

	1973	1980	1990	2000	2006	2007	2008e	Average annual percent change 73-90	90-07
Production	7.4	8.8	17.7	17.8	18.7	21.1	21.6	5.2	1.1
Imports	0.0	0.8	6.0	13.3	19.4	20.9	17.6	42.3	7.6
Exports	-	-0.1	-	-	-	-	-	-	-
Stock changes	-0.1	0.4	0.5	1.6	-0.3	-0.1	-	x	x
Primary supply	**7.4**	**10.0**	**24.2**	**32.7**	**37.8**	**42.0**	**39.3**	**7.2**	**3.3**
Statistical difference	**-**	**-0.3**	**-2.0**	**-0.1**	**0.0**	**0.0**	**..**	**x**	**x**
Total transformation	**-2.9 e**	**-3.4 e**	**-11.0 e**	**-16.7 e**	**-19.2 e**	**-21.6 e**	**..**	**8.1**	**4.0**
Electricity and heat gen.	-1.8	-2.6	-7.8	-14.1	-16.2	-19.0	..	9.0	5.3
Main activity producers (1)	*-1.8*	*-2.2*	*-7.2*	*-13.4*	*-14.8*	*-17.6*	*..*	*8.4*	*5.4*
Autoproducers	-	*-0.4*	*-0.7*	*-0.7*	*-1.4*	*-1.4*	*..*	-	*4.3*
Gas works	-0.2	-0.1	-0.1	-	-	-	..	-6.5	-
Coal transformation(2)	-0.9 e	-0.7 e	-3.1 e	-2.6 e	-3.1 e	-2.6 e	..	7.2	-1.2
BKB plants	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*..*	*3.1*	*1.1*
Blast furnaces	*-0.6 e*	*-0.9 e*	*-1.6 e*	*-1.8 e*	*-1.9 e*	*-2.0 e*	*..*	*6.3*	*1.2*
Coke ovens	*-0.4*	*0.1*	*-1.5*	*-0.8*	*-1.2*	*-0.6*	*..*	*8.5*	*-5.4*
Patent fuel plants	-	-	-	-	-	-	*..*	-	-
Other transformation(3)	-	-	-	-	-	-	..	-	-
Own use	**-0.2**	**-0.3**	**-0.4**	**-0.4**	**-0.4**	**-0.4**	**..**	**4.0**	**0.2**
Distribution losses	**-0.0**	**-0.0**	**-0.0**	**-0.0**	**-0.0**	**-0.0**	**..**	**x**	**x**
Final consumption(4)	**4.2**	**5.9**	**10.7**	**15.5**	**18.1**	**20.0**	**..**	**5.7**	**3.7**
Industry sector(5)	1.6	3.1	6.4	12.6	14.6	16.0	..	8.4	5.5
Iron and steel	*0.4 e*	*0.9 e*	*1.0 e*	*1.3 e*	*1.0*	*1.4 e*	*..*	*6.2*	*1.8*
Chemical	*0.3*	*0.2*	*0.4*	*0.0*	*0.1*	*0.0*	*..*	*2.1*	*-17.8*
Non-metallic minerals	-	-	*0.0*	*0.1*	*0.1*	*0.1*	*..*	-	*19.6*
Paper, pulp and print	-	-	*0.0*	*0.0*	*0.0*	*0.0*	*..*	-	*24.3*
Transport sector(6)	0.7	0.3	0.0	0.0	-	-	..	-18.9	-
Other sectors(7)	1.8	2.6	4.3	2.9	3.6	3.9	..	5.2	-0.5
Comm. and pub. services	-	-	-	-	-	-	*..*	-	-
Residential	*1.8*	*2.6*	*4.3*	*2.9*	*3.6*	*3.9*	*..*	*5.2*	*-0.5*
Non-energy use	-	-	-	-	-	-	..	-	-

Source: *IEA/OECD Energy Balances of OECD Countries*

(1) Main activity electricity and heat generation includes district heating.

(2) Coal transformation refers to the transformation of coal and peat to secondary and tertiary products (mainly coke, briquettes, coke oven gas and blast furnace gas).

(3) Other transformation includes liquefaction and non-specified transformation.

(4) Final Consumption includes non-energy use and energy use (industry, transport and other sectors).

(5) Please refer to notes in *Principles and Definitions* for detailed explanation.

(6) Transport sector includes rail and inland waterways.

(7) Other sectors includes commercial and public services, agriculture, and residential.

* "Coal" refers to all types of coal, primary (anthracite, coking coal, other bituminous coal, sub-bituminous coal, lignite/brown coal, peat) and derived fuels (including patent fuel, BKB/peat briquettes, coke oven coke, gas coke, coal tar, coke oven gas, gas works gas, blast furnace gas and oxygen steel furnace gas). Quantities have been converted to Mtce using calorific values reported by the respective countries. Please refer to notes in *Principles and Definitions*.

Turkey

6. USE OF COAL FOR SELECTED END-USES*

(million tonnes)

	1978	1980	1990	2000	2005	2006	2007	Average annual percent change 78-90	90-07
Steam coal	**1.21**	**1.22**	**2.81**	**8.48**	**13.84**	**16.87**	**19.53**	**7.31**	**12.08**
Total electricity and heat	0.68	0.61	0.37	1.66	4.57	4.69	5.12	-5.01	16.73
Main activity producers	*0.68*	*0.61*	*0.37*	*1.66*	*4.57*	*4.69*	*5.12*	*-5.01*	*16.73*
Autoproducers	-	-	-	-	-	-	-	-	-
Patent fuel/BKB plants	-	-	-	-	-	-	-	-	-
Coke ovens	0.09	0.06	0.06	-	-	-	-	-3.28	-
Blast furnace inputs	-	-	-	-	-	-	-	-	-
Gas manufacture	-	-	-	-	-	-	-	-	-
Industry sector	0.29	0.43	1.12	6.15	8.42	11.39	13.48	12.11	15.73
Iron and steel	-	-	-	-	-	-	-	-	-
Chemical	-	-	-	-	-	-	-	-	-
Non-metallic minerals	-	-	*0.01*	*0.03*	*0.07*	*0.08*	*0.08*	-	*15.41*
Paper, pulp and print	-	-	*0.00*	*0.02*	*0.02*	*0.03*	*0.03*	-	*21.39*
Other industry	*0.29*	*0.43*	*1.12*	*6.10*	*8.33*	*11.29*	*13.37*	*12.05*	*15.73*
Res, comm & pub serv[1]	0.10	0.06	1.25	0.68	0.85	0.79	0.94	23.25	-1.69
Non-energy use	-	-	-	-	-	-	-	-	-
Coking coal	**3.43**	**3.41**	**5.34**	**7.04**	**5.59**	**5.93**	**5.82**	**3.75**	**0.51**
Total electricity and heat	0.36	0.16	0.11	0.28	0.60	0.79	0.80	-9.80	12.65
Main activity producers	*0.31*	*0.10*	*0.08*	-	-	-	-	*-11.22*	-
Autoproducers	*0.05*	*0.06*	*0.03*	*0.28*	*0.60*	*0.79*	*0.80*	*-4.01*	*21.26*
Patent fuel/BKB plants	-	-	-	-	-	-	-	-	-
Coke ovens	2.39	2.56	4.66	4.19	4.22	4.75	4.44	5.71	-0.28
Blast furnace inputs	-	-	-	-	-	-	0.27	-	-
Gas manufacture	0.29	0.23	0.10	-	-	-	-	-8.83	-
Industry sector	0.05	0.15	0.34	2.47	0.64	0.28	0.24	17.37	-1.97
Iron and steel	-	-	-	*0.09*	*0.09*	*0.08*	*0.03*	-	-
Chemical	-	-	-	-	-	-	-	-	-
Non-metallic minerals	-	-	-	-	-	-	-	-	-
Paper, pulp and print	-	-	-	-	-	-	-	-	-
Other industry	*0.05*	*0.15*	*0.34*	*2.38*	*0.55*	*0.20*	*0.21*	*17.37*	*-2.66*
Res, comm & pub serv[1]	0.11	0.13	0.13	0.10	0.13	0.11	0.07	1.19	-3.25
Non-energy use	-	-	-	-	-	-	-	-	-
Brown coal/lignite	**13.23**	**15.80**	**46.18**	**64.41**	**57.32**	**60.79**	**72.83**	**10.98**	**2.72**
Total electricity and heat	4.45	6.03	29.88	52.54	47.41	49.71	60.54	17.21	4.24
Main activity producers	*4.30*	*5.47*	*29.63*	*52.29*	*47.21*	*49.47*	*60.31*	*17.45*	*4.27*
Autoproducers	*0.15*	*0.56*	*0.25*	*0.26*	*0.20*	*0.24*	*0.22*	*4.71*	*-0.69*
Patent fuel/BKB plants	0.02	0.02	0.04	0.00	0.16	0.19	0.05	6.74	2.36
Coke ovens	-	-	-	-	-	-	-	-	-
Gas manufacture	-	-	-	-	-	-	-	-	-
Industry sector	3.63	3.49	8.52	6.93	4.25	5.02	5.13	7.36	-2.94
Iron and steel	*0.00*	*0.00*	-	-	-	-	-	-	-
Chemical	*0.73*	*0.58*	*0.93*	*0.11*	*0.16*	*0.18*	*0.03*	*2.10*	*-18.47*
Non-metallic minerals	-	-	-	-	-	-	-	-	-
Paper, pulp and print	-	-	-	-	-	-	-	-	-
Other industry	*2.90*	*2.90*	*7.59*	*6.82*	*4.09*	*4.84*	*5.10*	*8.33*	*-2.31*
Res, comm & pub serv[1]	4.88	6.14	7.71	4.94	5.49	5.87	7.11	3.88	-0.48
Non-energy use	-	-	-	-	-	-	-	-	-

Source: *IEA/OECD Energy Statistics of OECD Countries*

(1) Residential, commercial and public services.

* Please refer to notes in *Principles and Definitions*.

Turkey

7. FUEL PRICES TO END USERS*

	1978[1]	1980	1990	2000	2004	2005	2006	2007	2008
				(US dollars / tce)					
For electricity generation									
Steam coal	..	49.88	31.85	50.45	90.65	88.29	86.87	97.12	113.22
Heavy fuel oil	105.18	179.15	174.87	150.29	252.39	397.46	467.46	573.16	728.57
Natural gas	..	..	110.22	131.07	177.29	234.26	271.72	341.34	444.88
For industry									
Steam coal	..	86.47	79.67	53.26	67.16	78.71	79.99	115.02	152.51
Coking coal	70.23	83.99	82.07	80.19	118.78	148.07	161.57	200.52	258.70
High sulphur fuel oil	105.18	179.15	174.87	150.29	252.39	397.46	467.46	573.16	728.57
Low sulphur fuel oil	..	..	..	..	..	..	..	..	..
Natural gas	..	..	98.09	136.10	179.14	236.81	274.31	342.88	445.57
				(New Turkish lira / unit)[2]					
For electricity generation									
Steam coal	..	0.00	0.02	9.01	36.93	33.83	35.49	36.07	42.01
Heavy fuel oil	0.00	0.02	0.63	128.86	493.59	731.11	916.73	1021.81	1297.72
Natural gas	..	..	0.37	105.36	325.05	403.98	499.57	570.49	742.89
For industry									
Steam coal	..	0.00	0.13	20.22	58.15	64.10	69.45	90.78	120.26
Coking coal	0.00	0.01	0.19	43.69	147.60	173.07	201.34	227.15	292.79
High sulphur fuel oil	0.00	0.02	0.63	128.86	493.59	731.11	916.73	1021.81	1297.72
Low sulphur fuel oil	..	..	..	..	..	..	..	..	..
Natural gas	..	..	0.33	109.40	328.43	408.38	504.33	573.06	744.04

Source: *IEA/OECD Energy Prices & Taxes*

(1) Earliest year for which split by coal type is available.

(2) For steam coal, coking coal and heavy fuel oil per metric tonne; for natural gas per 10^7 kilocalories GCV.

* Please refer to notes in *Principles and Definitions*.

8. COAL TRADE BY TYPE OF COAL*

(Mtce)

	1973	1980	1990	2000	2004	2005	2006	2007	2008e
Total imports	**0.01**	**0.82**	**6.02**	**13.30**	**16.00**	**16.74**	**19.40**	**20.91**	**17.63**
Hard coal	0.01	0.82	6.01	12.57	15.61	16.33	18.93	20.47	17.42
Coking coal	*..*	*0.82*	*4.25*	*6.27*	*5.00*	*5.23*	*5.74*	*5.19*	*4.61*
Steam coal	*..*	-	*1.76*	*6.30*	*10.61*	*11.10*	*13.19*	*15.28*	*12.81*
Brown coal / lignite	-	-	0.01	0.00	-	-	0.01	-	-
Peat	-	-	-	-	-	-	-	-	-
Coal products[1]	-	-	-	0.72	0.39	0.41	0.45	0.44	0.21
Total exports	**-**	**0.07**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
Hard coal	-	0.00	-	-	-	-	-	-	-
Coking coal	*..*	*0.00*	-	-	-	-	-	-	-
Steam coal	*..*	-	-	-	-	-	-	-	-
Brown coal / lignite	-	0.07	-	-	-	-	-	-	-
Peat	-	-	-	-	-	-	-	-	-
Coal products[1]	-	-	-	-	-	-	-	-	-

Source: *IEA/OECD Energy Balances of OECD Countries, IEA/OECD Energy Statistics of OECD Countries*

(1) Coal products includes products derived from coal, for example: coke, coal tar, briquettes, patent fuels.

* Please refer to notes in *Principles and Definitions*.

Turkey

9. HARD COAL IMPORTS BY ORIGIN*

(thousand tonnes)

	1978[1]	1980	1990	2000	2004	2005	2006	2007	2008e
Hard Coal	**475**	**945**	**5557**	**12990**	**16427**	**17360**	**20286**	**22945**	**19489**
Coking Coal	**475**	**945**	**3717**	**6202**	**4784**	**4943**	**5490**	**5117**	**4546**
Australia	-	-	1318	2793	776	882	1569	1695	2324
Canada	-	-	51	847	1354	1175	1125	964	888
Czech Republic	-	-	-	-	-	-	-	-	-
Germany	70	-	-	-	-	-	-	-	-
Poland	-	-	-	100	-	187	164	-	-
United Kingdom	-	-	-	-	-	6	-	-	-
United States	405	945	2011	2150	1571	1810	1045	1312	1329
Other OECD	-	-	-	-	-	-	-	-	-
China, People's Rep.	-	-	-	-	25	101	-	-	-
Colombia	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-
South Africa	-	-	-	-	-	-	-	-	-
Former USSR[2]	-	-	-	-	-	-	-	-	-
Russia[3]	-	-	*337*	*259*	*554*	*574*	*1203*	*611*	-
Other Former USSR[3]	-	-	-	-	*504*	*208*	*384*	*535*	*5*
Venezuela	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	53	-	-	-	-	-
Non-specified/other	-	-	-	-	-	-	-	-	-
Steam coal	**-**	**-**	**1840**	**6788**	**11643**	**12417**	**14796**	**17828**	**14943**
Australia	-	-	-	-	-	24	-	61	-
Canada	-	-	-	-	-	-	-	412	-
Czech Republic	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-
Poland	-	-	-	-	38	-	-	-	-
United Kingdom	-	-	-	69	-	1	-	-	-
United States	-	-	58	-	-	-	-	326	71
Other OECD	-	-	-	21	-	-	-	-	-
China, People's Rep.	-	-	-	-	1441	1517	1829	1947	1386
Colombia	-	-	-	-	1567	2456	2601	2754	2882
Indonesia	-	-	-	-	97	-	-	-	-
South Africa	-	-	1252	1440	1940	1448	2215	2499	1547
Former USSR[2]	-	-	-	-	-	-	-	-	-
Russia[3]	-	-	*530*	*5023*	*6215*	*6198*	*7273*	*9264*	*8278*
Other Former USSR[3]	-	-	-	*174*	*146*	*611*	*374*	*227*	*701*
Venezuela	-	-	-	-	-	11	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-
Non-specified/other	-	-	-	61	199	151	504	338	78

Source: IEA/OECD Coal Statistics

(1) Earliest year for which split by coal type is available.

(2) If no detail.

(3) Data for former republics are not available separately for some OECD member countries.

* Please refer to notes in *Principles and Definitions*.

United Kingdom*

Chart 1: TPES by fuel (Mtce)

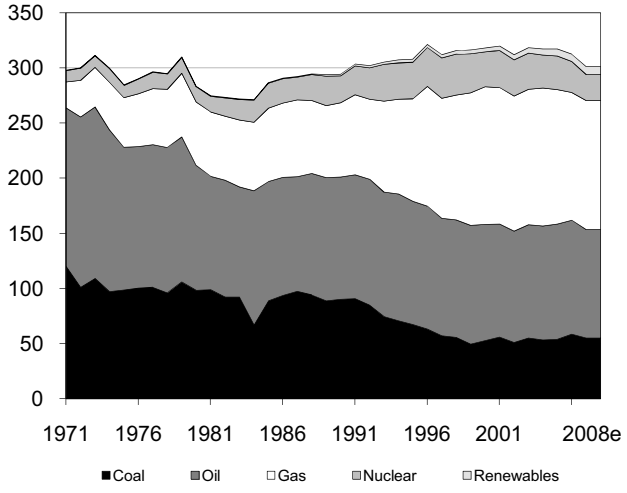


Chart 2: Coal supply indicators (1971 = 100)

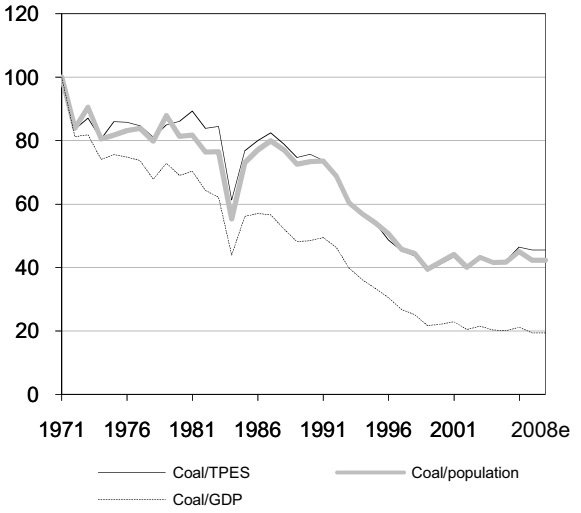


Chart 3: Primary coal supply (Mtce)

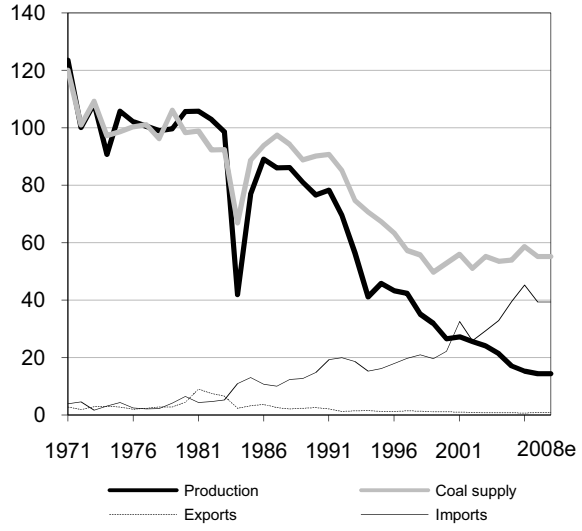


Chart 4: Coal consumption (Mtce)

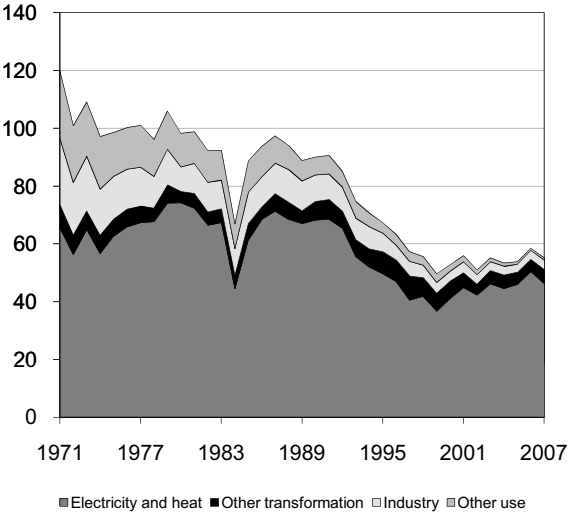


Chart 5: Electricity generation by fuel (TWh)

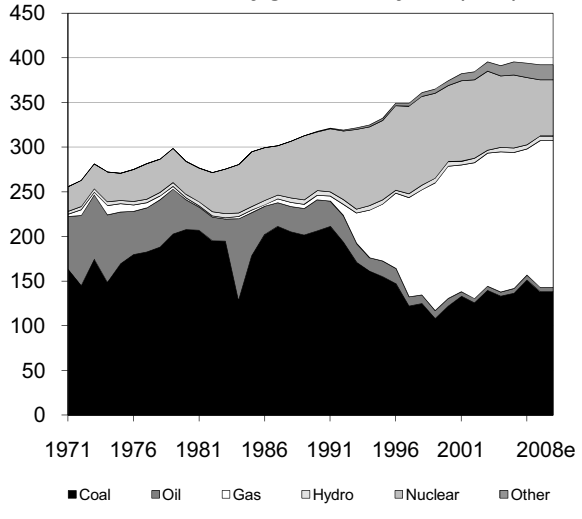
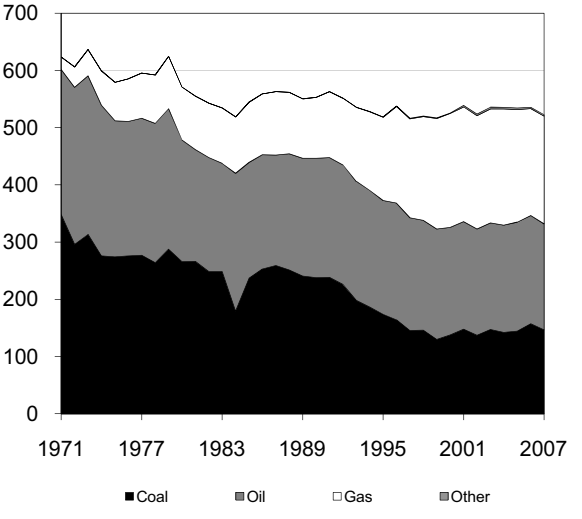


Chart 6: CO_2 emissions by fuel (Mt CO_2)



*Please refer to notes in *Principles and Definitions* . Peat is included in coal for all charts.

United Kingdom

1. TOTAL PRIMARY ENERGY SUPPLY (TPES) BY FUEL*

	1973	1980	1990	2000	2006	2007	2008e	Average annual percent change 73-90	90-07
TPES (Mtce)	**311.53**	**283.47**	**295.96**	**319.99**	**313.47**	**301.87**	**296.32**	**-0.30**	**0.12**
Coal and peat	109.18	98.28	90.15	52.84	58.59	55.22	50.11	-1.12	-2.84
Oil	155.58	113.34	110.90	105.42	103.50	98.35	96.52	-1.97	-0.70
Gas	35.87	57.59	67.41	124.82	115.77	117.06	120.57	3.78	3.30
Comb. renew/waste	-	-	0.90	2.75	5.46	5.80	6.68	-	11.61
Nuclear	10.42	13.78	24.48	31.67	28.09	23.46	19.54	5.15	-0.25
Hydro	0.47	0.48	0.64	0.62	0.56	0.63	0.62	1.78	-0.13
Geothermal	-	-	0.00	0.00	0.00	0.00	0.00	-	-
Solar, wind, tide	-	-	0.02	0.13	0.57	0.71	0.94	-	25.17
Net electricity trade(1)	0.01	0.00	1.47	1.74	0.92	0.64	1.35	36.14	-4.76
Heat(2)	-	-	-	-	-	-	-	-	-

Source: *IEA/OECD Energy Balances of OECD Countries*

(1) Net trade between OECD and non-OECD countries.

(2) Ambient heat from heat pumps used in the transformation sector.

2. ENERGY SUPPLY, GDP AND POPULATION*

	1973	1980	1990	2000	2006	2007	2008e	Average annual percent change 73-90	90-07
GDP (2000 bil. US$)	824	880	1150	1478	1714	1766	1778	1.98	2.55
TPES/GDP(1)	0.38	0.32	0.26	0.22	0.18	0.17	0.17	-2.24	-2.38
Population (millions)	56.2	56.3	57.2	58.9	60.6	60.8	61.1	0.11	0.35
TPES/population(1)	5.54	5.03	5.17	5.43	5.17	4.97	4.85	-0.41	-0.24
TPES/GDP(2)	174.6	148.8	118.8	100.0	84.5	78.9	77.0	-2.24	-2.38
Coal and peat supply/GDP(2)	370.6	312.3	219.1	100.0	95.6	87.4	78.8	-3.04	-5.26
Elec. consumption/GDP(2)	126.9	119.4	107.0	100.0	90.2	86.9	..	-1.00	-1.22
Elec. generation (TWh)	281	284	318	374	394	392	386	0.72	1.25
Industrial production(2)	75.1	73.6	87.8	100.0	96.7	97.3	94.7	0.92	0.61

Source: *IEA/OECD Energy Balances of OECD Countries* , *OECD Main Economic Indicators*

(1) TPES/GDP in units of tce/2000 thousand US$, TPES/population in units of tce/capita.

(2) As index, 2000 = 100

3. COAL AND PEAT PRODUCTION BY TYPE*

	1978(1)	1980	1990	2000	2006	2007	2008e	Average annual percent change 78-90	90-07
Mtce:									
Coking coal	14.68	9.68	1.60	0.26	0.28	0.28	0.32	-16.87	-9.82
Steam coal	84.26	95.97	74.99	26.28	14.97	14.05	13.60	-0.97	-9.38
Brown coal	-	-	-	-	-	-	-	-	-
Peat	-	-	-	-	-	-	-	-	-
Mt:									
Coking coal	15.11	10.05	1.60	0.26	0.27	0.27	0.31	-17.06	-10.02
Steam coal	108.47	120.05	91.16	30.94	18.25	16.74	16.20	-1.44	-9.49
Brown coal	-	-	-	-	-	-	-	-	-
Peat	-	-	-	-	-	-	-	-	-

Source: *IEA/OECD Energy Balances of OECD Countries, IEA/OECD Energy Statistics of OECD Countries*

(1) Earliest year for which split by coal type is available.

* Please refer to notes in *Principles and Definitions* .

United Kingdom

4. FINAL CONSUMPTION OF ENERGY BY FUEL*

(Mtce)

	1973	1980	1990	2000	2005	2006	2007	Average annual percent change 73-90	90-07
TFC[1]	**204.61**	**187.54**	**198.64**	**215.62**	**213.88**	**210.59**	**204.01**	**-0.17**	**0.16**
Coal and peat	37.79	20.10	15.39	5.68	3.71	3.90	4.04	-5.15	-7.57
Oil	104.41	85.17	89.25	90.20	92.73	92.53	88.90	-0.92	-0.02
Gas	33.77	53.31	59.68	74.89	72.12	68.92	65.99	3.41	0.59
Comb. renew/wastes	-	-	0.59	0.88	0.89	1.07	1.39	-	5.15
Geothermal	-	-	0.00	0.00	0.00	0.00	0.00	-	-
Solar, wind, tide	-	-	0.01	0.02	0.04	0.05	0.06	-	9.09
Electricity	28.63	28.79	33.72	40.47	42.57	42.35	42.01	0.97	1.30
Heat	-	0.17	-	3.48	1.81	1.78	1.61	-	-
of which:									
Total industry	**75.06**	**56.11**	**45.47**	**48.25**	**45.72**	**44.54**	**43.34**	**-2.91**	**-0.28**
Coal and peat	19.05	8.50	9.11	3.37	2.86	3.12	3.22	-4.25	-5.94
Oil	30.33	17.41	9.00	8.61	9.94	9.63	9.32	-6.90	0.20
Gas	14.47	19.30	14.86	20.27	16.73	15.89	15.12	0.16	0.10
Comb. renew/wastes	-	-	0.14	0.40	0.20	0.20	0.24	-	3.17
Geothermal	-	-	-	-	-	-	-	-	-
Solar, wind, tide	-	-	-	-	-	-	-	-	-
Electricity	11.21	10.72	12.36	14.02	14.81	14.53	14.46	0.58	0.93
Heat	-	0.17	-	1.57	1.19	1.16	0.99	-	-
Total transport	**39.47**	**43.39**	**57.76**	**60.63**	**62.79**	**63.70**	**64.05**	**2.27**	**0.61**
Coal and peat	0.08	0.05	0.00	-	-	-	-	-18.29	-
Oil	39.07	42.96	57.11	59.57	61.61	62.43	62.55	2.26	0.54
Gas	-	-	-	-	-	-	-	-	-
Comb. renew/wastes	-	-	-	-	0.10	0.26	0.49	-	-
Electricity	0.32	0.37	0.65	1.06	1.08	1.01	1.01	4.23	2.66
Residential	**48.09**	**51.32**	**53.24**	**61.48**	**62.16**	**60.19**	**57.97**	**0.60**	**0.50**
Coal and peat	15.74	9.65	4.97	2.23	0.82	0.75	0.80	-6.56	-10.19
Oil	5.54	3.76	3.30	4.31	4.11	4.32	3.83	-3.00	0.87
Gas	15.60	27.33	33.20	40.88	42.44	40.32	38.68	4.54	0.90
Comb. renew/wastes	-	-	0.25	0.25	0.37	0.41	0.45	-	3.59
Geothermal	-	-	-	-	-	-	-	-	-
Solar, wind, tide	-	-	-	-	-	-	-	-	-
Electricity	11.22	10.58	11.52	13.74	14.35	14.31	14.13	0.16	1.21
Heat	-	-	-	0.06	0.07	0.07	0.07	-	-
Comm & public services	**19.03**	**18.20**	**18.37**	**24.07**	**23.21**	**23.03**	**22.71**	**-0.21**	**1.25**
Coal and peat	2.82	1.87	1.29	0.06	0.03	0.02	0.02	-4.51	-22.56
Oil	8.36	6.63	4.43	2.01	1.24	1.18	1.19	-3.68	-7.41
Gas	2.45	3.08	3.90	8.93	9.44	9.18	8.90	2.77	4.97
Comb. renew/waste	-	-	0.05	0.11	0.13	0.11	0.12	-	4.50
Geothermal	-	-	-	-	-	-	-	-	-
Solar, wind, tide	-	-	-	-	-	-	-	-	-
Electricity	5.40	6.62	8.71	11.12	11.82	11.99	11.93	2.85	1.87
Heat	-	-	-	1.85	0.55	0.55	0.55	-	-
Non-energy use	**17.22**	**10.14**	**15.46**	**16.18**	**15.81**	**15.41**	**12.36**	**-0.63**	**-1.31**
Coal and peat	-	-	-	-	-	-	-	-	-
Oil	17.22	10.14	13.24	14.65	14.74	14.11	11.21	-1.53	-0.98
Gas	-	-	2.22	1.52	1.07	1.30	1.16	-	-3.77

Source: *IEA/OECD Energy Balances of OECD Countries*

(1) Total Final Consumption (TFC) excludes use in transformation and energy sectors.

* Please refer to notes in *Principles and Definitions*.

United Kingdom

5. COAL BALANCE*

(Mtce)

	1973	1980	1990	2000	2006	2007	2008e	Average annual percent change 73-90	90-07
Production	108.4	105.7	76.6	26.5	15.2	14.3	13.9	-2.0	-9.4
Imports	1.6	6.4	14.7	22.2	45.2	39.4	39.2	13.9	5.9
Exports	-2.8	-4.4	-2.6	-1.1	-0.6	-0.8	-0.8	-0.6	-6.5
Stock changes	2.0	-9.4	1.4	5.2	-1.3	2.4	-2.2	x	x
Primary supply	**109.2**	**98.3**	**90.2**	**52.8**	**58.6**	**55.2**	**50.1**	**-1.1**	**-2.8**
Statistical difference	**3.3**	**0.3**	**-1.5**	**-0.5**	**0.2**	**-0.1**	**..**	**x**	**x**
Total transformation	**-70.9 e**	**-76.7 e**	**-72.1 e**	**-44.9 e**	**-53.5 e**	**-49.6 e**	**..**	**0.1**	**-2.2**
Electricity and heat gen.	-65.0	-74.3	-68.3	-41.1	-50.5	-46.4	..	0.3	-2.3
Main activity producers (1)	*-65.0*	*-72.0*	*-66.3*	*-37.7*	*-47.3*	*-43.3*	*..*	*0.1*	*-2.5*
Autoproducers	-	*-2.3*	*-1.9*	*-3.3*	*-3.1*	*-3.1*	*..*	-	*2.9*
Gas works	-0.4	-0.0	-	-	-	-	..	-	-
Coal transformation(2)	-5.5 e	-2.4 e	-3.9 e	-3.9 e	-3.0 e	-3.3 e	..	-2.1	-1.0
BKB plants	-	-	-	-	-	-	..	-	-
Blast furnaces	*-2.3 e*	*-0.9 e*	*-2.6 e*	*-3.0 e*	*-2.7 e*	*-2.8 e*	*..*	*0.8*	*0.5*
Coke ovens	*-3.2*	*-1.4*	*-1.1*	*-0.9*	*-0.3*	*-0.5*	*..*	*-6.2*	*-4.8*
Patent fuel plants	*-0.0*	*-0.0*	*-0.2*	*0.1*	*0.0*	*0.0*	*..*	*9.7*	-
Other transformation(3)	-	-	-	0.0	0.0	0.0	..	-	-
Own use	**-3.2**	**-1.9**	**-1.1**	**-1.5**	**-1.2**	**-1.2**	**..**	**-6.1**	**0.5**
Distribution losses	**-0.5**	**-**	**-**	**-0.2**	**-0.2**	**-0.3**	**..**	**x**	**x**
Final consumption(4)	**37.8**	**20.1**	**15.4**	**5.7**	**3.9**	**4.0**	**..**	**-5.1**	**-7.6**
Industry sector(5)	19.0	8.5	9.1	3.4	3.1	3.2	..	-4.2	-5.9
Iron and steel	*9.0 e*	*3.6 e*	*3.9 e*	*1.2 e*	*1.5 e*	*1.6 e*	*..*	*-4.8*	*-5.2*
Chemical	*0.3*	*0.2*	*0.9*	*0.0*	*0.1*	*0.1*	*..*	*7.5*	*-11.1*
Non-metallic minerals	*3.4*	*2.5*	*1.4*	*1.1*	*0.9*	*0.9*	*..*	*-5.3*	*-2.2*
Paper, pulp and print	*1.2*	*0.1*	*0.6*	*0.1*	*0.1*	*0.1*	*..*	*-4.3*	*-8.4*
Transport sector(6)	0.1	0.1	0.0	-	-	-	..	-18.3	-
Other sectors(7)	18.7	11.5	6.3	2.3	0.8	0.8	..	-6.2	-11.3
Comm. and pub. services	*2.8*	*1.9*	*1.3*	*0.1*	*0.0*	*0.0*	*..*	*-4.5*	*-22.6*
Residential	*15.7*	*9.6*	*5.0*	*2.2*	*0.7*	*0.8*	*..*	*-6.6*	*-10.2*
Non-energy use	-	-	-	-	-	-	..	-	-

Source: *IEA/OECD Energy Balances of OECD Countries*

(1) Main activity electricity and heat generation includes district heating.

(2) Coal transformation refers to the transformation of coal and peat to secondary and tertiary products (mainly coke, briquettes, coke oven gas and blast furnace gas).

(3) Other transformation includes liquefaction and non-specified transformation.

(4) Final Consumption includes non-energy use and energy use (industry, transport and other sectors).

(5) Please refer to notes in *Principles and Definitions* for detailed explanation.

(6) Transport sector includes rail and inland waterways.

(7) Other sectors includes commercial and public services, agriculture, and residential.

* "Coal" refers to all types of coal, primary (anthracite, coking coal, other bituminous coal, sub-bituminous coal, lignite/brown coal, peat) and derived fuels (including patent fuel, BKB/peat briquettes, coke oven coke, gas coke, coal tar, coke oven gas, gas works gas, blast furnace gas and oxygen steel furnace gas). Quantities have been converted to Mtce using calorific values reported by the respective countries. Please refer to notes in *Principles and Definitions*.

United Kingdom

6. USE OF COAL FOR SELECTED END-USES*

(million tonnes)

	1978	1980	1990	2000	2005	2006	2007	Average annual percent change 78-90	90-07
Steam coal	**105.68**	**111.98**	**96.21**	**51.02**	**55.21**	**60.30**	**55.70**	**-0.78**	**-3.16**
Total electricity and heat	83.21	91.98	84.01	46.85	52.52	57.82	53.03	0.08	-2.67
Main activity producers	*80.64*	*89.57*	*82.56*	*44.76*	*50.58*	*55.81*	*51.03*	*0.20*	*-2.79*
Autoproducers	*2.57*	*2.41*	*1.46*	*2.09*	*1.94*	*2.02*	*2.00*	*-4.59*	*1.86*
Patent fuel/BKB plants	1.19	1.10	0.78	0.54	0.27	0.28	0.25	-3.51	-6.56
Coke ovens	1.85	1.90	-	-	-	-	-	-	-
Blast furnace inputs	-	-	-	-	-	-	-	-	-
Gas manufacture	0.01	0.00	-	-	-	-	-	-	-
Industry sector	6.19	5.47	5.25	1.88	1.78	1.70	1.76	-1.36	-6.23
Iron and steel	*0.11*	*0.12*	*0.01*	*0.00*	*-*	*-*	*0.00*	*-16.73*	*-13.60*
Chemical	*0.03*	*0.02*	*1.04*	*0.03*	*0.13*	*0.09*	*0.14*	*35.13*	*-11.01*
Non-metallic minerals	*3.09*	*3.03*	*1.50*	*1.24*	*1.12*	*1.05*	*1.05*	*-5.84*	*-2.10*
Paper, pulp and print	*0.32*	*0.18*	*0.63*	*0.12*	*0.14*	*0.14*	*0.14*	*5.93*	*-8.31*
Other industry	*2.65*	*2.12*	*2.07*	*0.48*	*0.39*	*0.43*	*0.42*	*-2.04*	*-8.91*
Res, comm & pub serv[(1)]	12.17	10.67	5.43	1.95	0.65	0.59	0.67	-6.51	-11.59
Non-energy use	-	-	-	-	-	-	-	-	-
Coking coal	**14.99**	**11.63**	**10.52**	**8.85**	**6.57**	**7.04**	**7.17**	**-2.91**	**-2.23**
Total electricity and heat	-	-	-	-	-	-	-	-	-
Main activity producers	-	-	-	-	-	-	-	-	-
Autoproducers	-	-	-	-	-	-	-	-	-
Patent fuel/BKB plants	-	-	-	-	-	-	-	-	-
Coke ovens	14.91	11.61	10.09	8.23	5.57	5.93	5.93	-3.21	-3.07
Blast furnace inputs	-	-	0.66	0.45	0.98	1.00	1.11	-	3.14
Gas manufacture	-	-	-	-	-	-	-	-	-
Industry sector	-	-	0.11	0.01	0.06	0.12	0.13	-	1.07
Iron and steel	*-*	*-*	*0.11*	*0.01*	*0.06*	*0.12*	*0.13*	*-*	*1.07*
Chemical	-	-	-	-	-	-	-	-	-
Non-metallic minerals	-	-	-	-	-	-	-	-	-
Paper, pulp and print	-	-	-	-	-	-	-	-	-
Other industry	-	-	-	-	-	-	-	-	-
Res, comm & pub serv[(1)]	-	-	-	-	-	-	-	-	-
Non-energy use	-	-	-	-	-	-	-	-	-
Brown coal/lignite	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
Total electricity and heat	-	-	-	-	-	-	-	-	-
Main activity producers	-	-	-	-	-	-	-	-	-
Autoproducers	-	-	-	-	-	-	-	-	-
Patent fuel/BKB plants	-	-	-	-	-	-	-	-	-
Coke ovens	-	-	-	-	-	-	-	-	-
Gas manufacture	-	-	-	-	-	-	-	-	-
Industry sector	-	-	-	-	-	-	-	-	-
Iron and steel	-	-	-	-	-	-	-	-	-
Chemical	-	-	-	-	-	-	-	-	-
Non-metallic minerals	-	-	-	-	-	-	-	-	-
Paper, pulp and print	-	-	-	-	-	-	-	-	-
Other industry	-	-	-	-	-	-	-	-	-
Res, comm & pub serv[(1)]	-	-	-	-	-	-	-	-	-
Non-energy use	-	-	-	-	-	-	-	-	-

Source: *IEA/OECD Energy Statistics of OECD Countries*

(1) Residential, commercial and public services.

* Please refer to notes in *Principles and Definitions*.

United Kingdom

7. FUEL PRICES TO END USERS*

	1978[1]	1980	1990	2000	2004	2005	2006	2007	2008
					(US dollars / tce)				
For electricity generation									
Steam coal	52.18	91.65	96.27	55.02	73.98	81.19	86.73	102.00	148.68
Heavy fuel oil	67.63	141.33	66.97	128.62	184.50	272.68	302.68	322.38	378.32
Natural gas	52.91	93.18	c	80.92	126.11	166.89	213.74	223.75	279.09
For industry									
Steam coal	49.74	91.28	88.51	59.32	86.76	99.65	99.17	113.43	138.93
Coking coal	..	..	..	..	..	..	..	..	..
High sulphur fuel oil	72.81	151.36	95.94	135.97	x	x	x	x	x
Low sulphur fuel oil	..	..	..	..	197.20	266.21	307.73	408.54	c
Natural gas	67.78	126.05	123.24	81.44	157.62	232.37	298.29	259.02	346.87
					(Pounds sterling / unit)[2]				
For electricity generation									
Steam coal	21.97	31.84	43.77	29.35	32.61	36.07	38.06	41.16	65.57
Heavy fuel oil	49.72	85.73	53.16	119.80	141.99	211.50	231.91	227.14	291.31
Natural gas	35.47	51.54	c	68.73	88.50	118.04	149.33	143.75	195.96
For industry									
Steam coal	23.25	35.20	44.67	35.13	42.45	49.14	48.31	50.81	68.01
Coking coal	..	..	..	..	..	..	..	..	..
High sulphur fuel oil	53.53	91.81	76.16	126.65	x	x	x	x	x
Low sulphur fuel oil	..	..	..	..	151.76	206.48	235.78	287.85	c
Natural gas	45.44	69.72	89.21	69.17	110.61	164.35	208.40	166.41	243.55

Source: *IEA/OECD Energy Prices & Taxes*

(1) Earliest year for which split by coal type is available.

(2) For steam coal, coking coal and heavy fuel oil per metric tonne; for natural gas per 10^7 kilocalories GCV.

* Please refer to notes in *Principles and Definitions*.

8. COAL TRADE BY TYPE OF COAL*

(Mtce)

	1973	1980	1990	2000	2004	2005	2006	2007	2008e
Total imports	**1.60**	**6.42**	**14.75**	**22.18**	**32.86**	**39.59**	**45.24**	**39.35**	**39.19**
Hard coal	1.38	6.26	14.38	21.70	31.86	38.71	44.26	38.31	38.49
Coking coal	*..*	*2.32*	*8.84*	*8.34*	*6.25*	*6.45*	*6.68*	*7.37*	*6.26*
Steam coal	*..*	*3.94*	*5.54*	*13.36*	*25.60*	*32.26*	*37.58*	*30.94*	*32.23*
Brown coal / lignite	-	-	-	-	-	-	-	-	-
Peat	-	-	-	-	-	-	-	-	-
Coal products[1]	0.23	0.16	0.37	0.48	1.00	0.88	0.98	1.04	0.70
Total exports	**2.85**	**4.41**	**2.56**	**1.13**	**0.80**	**0.70**	**0.64**	**0.82**	**0.76**
Hard coal	2.22	3.24	2.17	0.68	0.62	0.57	0.46	0.54	0.56
Coking coal	*..*	*0.03*	*0.05*	*0.00*	*0.01*	*0.00*	*0.00*	*0.01*	*0.19*
Steam coal	*..*	*3.20*	*2.12*	*0.67*	*0.61*	*0.57*	*0.46*	*0.53*	*0.37*
Brown coal / lignite	-	-	-	-	-	-	-	-	-
Peat	-	-	-	-	-	-	-	-	-
Coal products[1]	0.62	1.18	0.39	0.45	0.18	0.13	0.17	0.27	0.21

Source: *IEA/OECD Energy Balances of OECD Countries, IEA/OECD Energy Statistics of OECD Countries*

(1) Coal products includes products derived from coal, for example: coke, coal tar, briquettes, patent fuels.

* Please refer to notes in *Principles and Definitions*.

United Kingdom

9. HARD COAL IMPORTS BY ORIGIN*

(thousand tonnes)

	1978[1]	1980	1990	2000	2004	2005	2006	2007	2008e
Hard Coal	**2352**	**7334**	**14783**	**23446**	**36153**	**43968**	**50529**	**43365**	**43733**
Coking Coal	**1383**	**2407**	**8614**	**8462**	**6345**	**6551**	**6775**	**7482**	**6349**
Australia	380	518	2966	4880	4140	3532	3766	3733	3247
Canada	-	-	961	1633	715	1084	1274	1808	1346
Czech Republic	-	-	-	-	-	-	-	-	-
Germany	207	-	2	-	-	-	-	-	-
Poland	375	403	794	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-
United States	421	1486	3791	1936	1342	1210	1416	1402	1466
Other OECD	-	-	7	2	-	-	19	49	-
China, People's Rep.	-	-	-	-	-	-	-	68	-
Colombia	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-
South Africa	-	-	-	-	-	-	-	-	-
Former USSR[2]	-	-	-	-	-	-	-	-	-
Russia[3]	-	-	*93*	*11*	*148*	*697*	*275*	*393*	*290*
Other Former USSR[3]	-	-	-	-	-	*28*	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-
Non-specified/other	-	-	-	-	-	-	25	29	-
Steam coal	**969**	**4927**	**6169**	**14984**	**29808**	**37417**	**43754**	**35883**	**37384**
Australia	645	2329	67	1222	2040	933	143	527	699
Canada	-	-	24	-	25	-	-	-	-
Czech Republic	-	-	2	-	-	-	-	-	-
Germany	53	81	248	-	13	17	50	11	15
Poland	41	43	250	1107	1208	647	856	130	213
United Kingdom	-	-	-	-	-	-	-	-	-
United States	1	2167	1641	837	723	299	692	1121	2796
Other OECD	73	78	1868	205	465	294	270	212	333
China, People's Rep.	-	-	69	143	235	134	52	198	-
Colombia	-	-	956	5649	3635	3292	3798	3853	5302
Indonesia	-	-	-	9	1458	1621	1895	1455	2165
South Africa	26	66	356	4756	10149	13034	12858	7742	4255
Former USSR[2]	106	46	-	-	-	-	-	-	-
Russia[3]	-	-	*499*	*480*	*9784*	*16831*	*22697*	*20499*	*21223*
Other Former USSR[3]	-	-	-	*5*	*11*	*90*	*421*	*135*	*371*
Venezuela	-	-	169	208	39	-	-	-	9
Vietnam	-	-	-	123	23	-	22	-	-
Non-specified/other	24	117	20	240	-	225	-	-	3

Source: IEA/OECD Coal Statistics

(1) Earliest year for which split by coal type is available.

(2) If no detail.

(3) Data for former republics are not available separately for some OECD member countries.

* Please refer to notes in *Principles and Definitions*.

United Kingdom

11. STEAM COAL EXPORTS BY DESTINATION*

(thousand tonnes)

	1978[1]	1980	1990	2000	2004	2005	2006	2007	2008e
Total Exports	**2176**	**4007**	**2258**	**656**	**612**	**533**	**442**	**508**	**357**
Exports to:									
Total OECD	**2174**	**4005**	**1960**	**653**	**609**	**528**	**439**	**505**	**352**
Australia	-	-	1	-	-	-	-	-	-
Austria	-	-	-	-	-	-	-	-	-
Belgium	113	185	67	73	65	84	51	42	13
Canada	-	-	-	-	1	1	1	5	-
Czech Republic	-	-	-	-	-	-	1	1	-
Denmark	125	606	366	12	1	4	5	6	1
Finland	6	7	204	-	-	-	-	-	-
France	950	1474	271	77	51	33	16	13	-
Germany	446	1116	214	13	8	1	4	3	-
Greece	-	-	-	-	-	-	-	-	-
Hungary	-	-	-	-	-	-	-	-	-
Iceland	-	-	18	-	-	3	17	7	-
Ireland	202	289	246	265	377	309	265	258	187
Italy	53	9	-	1	-	-	-	-	-
Japan	-	-	-	-	-	-	-	-	-
Korea	-	-	-	-	-	-	-	-	-
Luxembourg	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	1	-
Netherlands	168	221	25	15	4	3	3	10	73
New Zealand	-	-	-	-	-	-	-	-	-
Norway	79	63	145	158	87	85	12	24	11
Poland	-	-	-	-	-	-	-	-	-
Portugal	3	5	178	-	-	-	-	-	-
Slovak Republic	-	-	-	-	-	-	-	-	-
Spain	3	-	138	31	8	-	64	135	67
Sweden	26	30	87	8	7	5	-	-	-
Switzerland	-	-	-	-	-	-	-	-	-
Turkey	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-
United States	-	-	-	-	-	-	-	-	-
Total Non-OECD	**2**	**2**	**289**	**3**	**3**	**5**	**3**	**3**	**3**
Brazil	-	-	5	-	-	-	-	-	-
Chinese Taipei	-	-	-	-	-	-	-	-	-
Egypt	-	-	1	1	1	1	1	1	-
Hong Kong, China	-	-	-	1	-	-	-	-	-
India	-	-	1	-	1	1	1	1	1
Israel	-	-	-	-	-	-	-	-	-
Romania	-	-	-	-	-	-	-	-	-
Oth. Africa & Mid. East	2	1	282	-	-	-	-	-	-
Other Latin America	-	-	-	-	-	-	-	-	-
Other Asia & Oceania	-	-	-	1	1	3	1	1	2
Other Europe and FSU	-	1	-	-	-	-	-	-	-
Non-Specified/Other	**-**	**-**	**9**	**-**	**-**	**-**	**-**	**-**	**2**

Source: IEA/OECD Coal Statistics

(1) Earliest year for which split by coal type is available.

* Please refer to notes in *Principles and Definitions*.

United Kingdom

12. COAL IMPORT VALUES BY ORIGIN*

(average unit value, CIF, US$/tonne)

	1988	1990	1995	2003	2004	2005	2006	2007	2008
Coking coal[1]	**56.46**	**72.56**	**57.61**	**57.34**	**77.73**	**116.05**	**128.51**	**120.24**	**187.79**
Imports from:									
Australia	50.01	76.77	56.28	55.51	76.33	127.10	136.58	124.16	201.79
Canada	53.83	67.89	55.72	62.49	78.05	99.81	117.54	104.80	192.51
Czech Republic	..	..	..	..	..	..	..	..	..
Poland	57.88	65.40	53.12	..	..	..	..	..	..
United States	60.84	72.53	60.78	64.91	80.05	113.10	127.10	131.69	176.47
China	..	..	..	..	..	..	..	207.67	..
Colombia	..	..	59.04	166.16	..	..	..	..	344.67
South Africa	..	..	..	34.94	..	..	..	..	..
Former USSR[2]	44.37	46.86	59.92	45.07	94.26	91.89	71.41	82.35	69.16
Steam coal[3]	**64.91**	**68.56**	**45.19**	**44.03**	**65.02**	**70.24**	**69.91**	**84.03**	**139.40**
Imports from:									
Australia	67.76	95.59	41.59	44.56	62.29	85.03	72.19	91.62	168.33
Canada	56.77	59.29	..	..	69.05	..	2529.04	..	..
Czech Republic	88.97	101.88	..	..	..	..	..	..	..
Poland	91.08	84.94	51.92	38.03	65.64	71.87	65.00	112.37	145.69
United States	71.64	69.28	44.64	48.52	68.02	83.66	62.86	79.53	133.03
China	41.43	73.47	..	58.82	80.81	98.27	150.04	71.23	..
Colombia	72.89	73.07	43.65	42.59	66.01	70.13	70.11	78.56	136.96
South Africa	58.27	..	43.16	44.35	63.57	69.27	69.85	90.44	155.46
Former USSR[2]	47.68	53.72	50.58	45.22	68.03	70.78	70.67	82.58	139.84

Source: IEA/OECD Coal Statistics

Note: On occasion, shipment of extremely small quantities of high valued coal results in high import costs.

(1) Weighted average of individual countries using import volumes as weights. Prices exclude intra-EU trade.

(2) Former USSR until 1991, Russia starting in 1992.

(3) Bituminous steam coal only. Weighted average of individual countries using volumes as weights. Prices exclude intra-EU trade.

* Please refer to notes in *Principles and Definitions*.

United States*

Chart 1: TPES by fuel (Mtce)

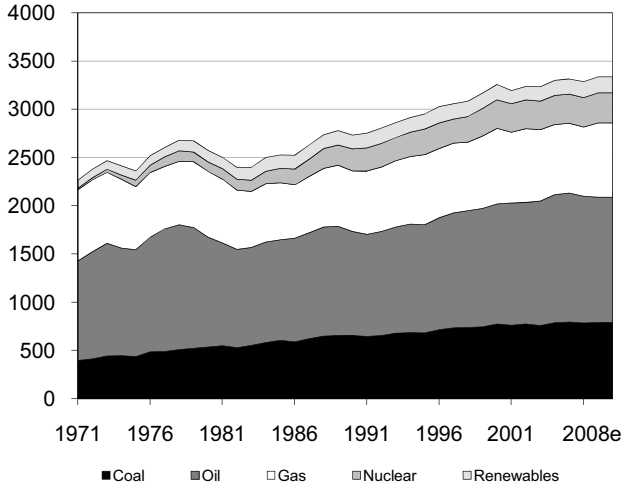


Chart 2: Coal supply indicators (1971 = 100)

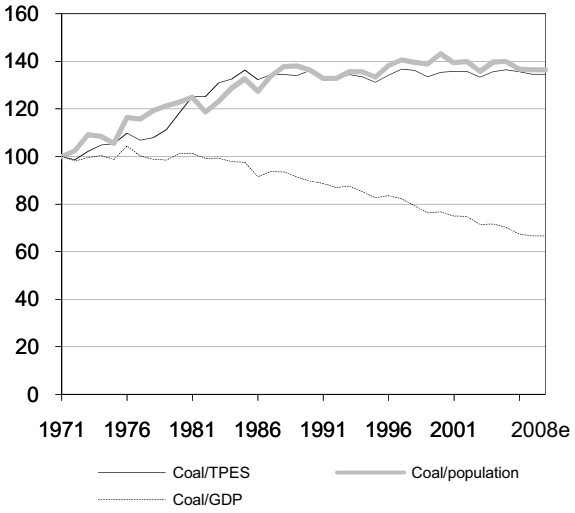


Chart 3: Primary coal supply (Mtce)

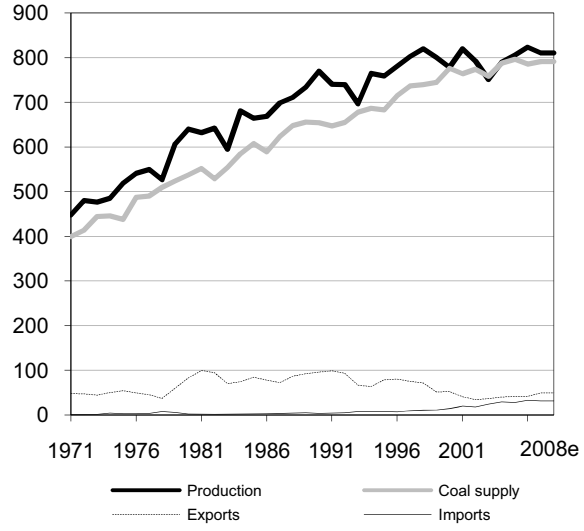


Chart 4: Coal consumption (Mtce)

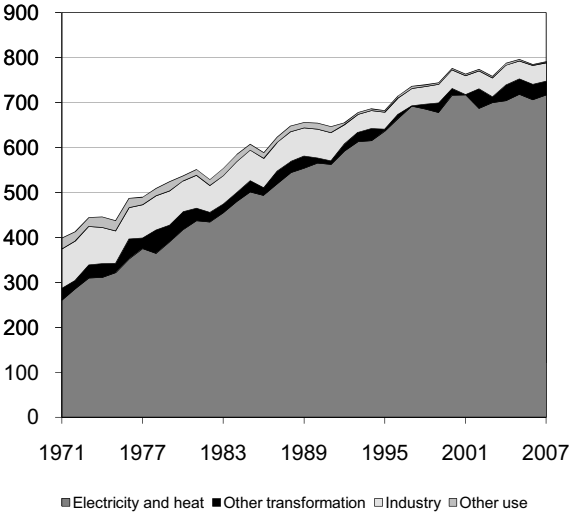


Chart 5: Electricity generation by fuel (TWh)

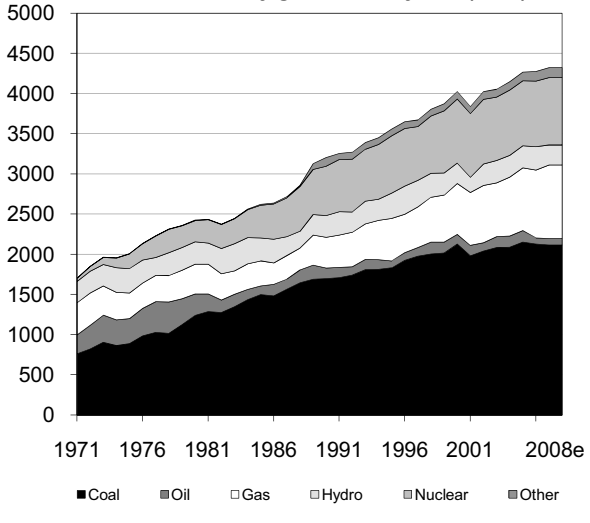
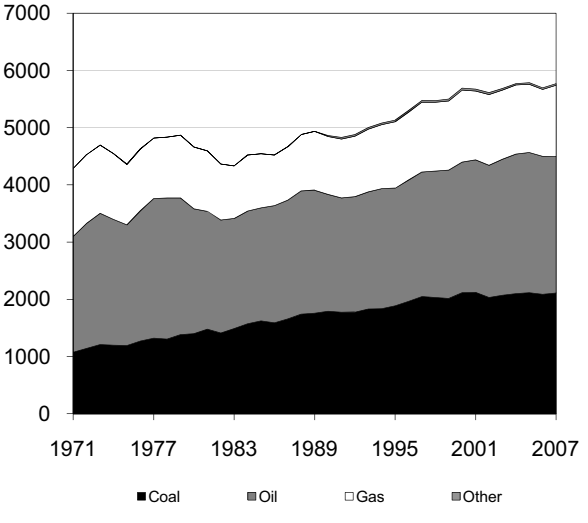


Chart 6: CO_2 emissions by fuel (Mt CO_2)



*Please refer to notes in *Principles and Definitions*. Peat is included in coal for all charts.

United States

1. TOTAL PRIMARY ENERGY SUPPLY (TPES) BY FUEL*

	1973	1980	1990	2000	2006	2007	2008e	Average annual percent change 73-90	90-07
TPES (Mtce)	**2471.34**	**2578.11**	**2733.10**	**3261.83**	**3289.72**	**3342.77**	**3281.47**	**0.59**	**1.19**
Coal and peat	444.36	537.48	654.81	776.56	785.39	791.64	789.37	2.31	1.12
Oil	1167.84	1138.47	1081.20	1244.50	1315.65	1299.56	1216.05	-0.45	1.09
Gas	735.01	681.12	626.05	782.26	717.14	769.20	785.66	-0.94	1.22
Comb. renew/waste	53.57	77.84	88.94	104.62	111.92	117.48	119.89	3.03	1.65
Nuclear	33.20	99.10	227.69	296.99	303.86	311.47	311.91	11.99	1.86
Hydro	32.60	34.25	33.56	31.11	35.86	30.67	30.96	0.17	-0.53
Geothermal	3.01	6.57	20.14	18.70	12.34	12.55	14.87	11.83	-2.74
Solar, wind, tide	-	-	0.46	2.94	5.28	6.36	8.72	-	16.73
Net electricity trade[1]	1.75	3.28	0.24	4.17	2.26	3.84	4.05	-10.97	17.62
Heat[2]	-	-	-	-	-	-	-	-	-

Source: *IEA/OECD Energy Balances of OECD Countries*

(1) Net trade between OECD and non-OECD countries.

(2) Ambient heat from heat pumps used in the transformation sector.

2. ENERGY SUPPLY, GDP AND POPULATION*

	1973	1980	1990	2000	2006	2007	2008e	Average annual percent change 73-90	90-07
GDP (2000 bil. US$)	4305	5128	7055	9765	11241	11468	11596	2.95	2.90
TPES/GDP[1]	0.57	0.50	0.39	0.33	0.29	0.29	0.28	-2.29	-1.66
Population (millions)	211.9	227.7	250.2	282.4	299.2	302.1	305.2	0.98	1.12
TPES/population[1]	11.66	11.32	10.92	11.55	11.00	11.07	10.75	-0.38	0.08
TPES/GDP[2]	171.9	150.5	116.0	100.0	87.6	87.3	84.7	-2.29	-1.66
Coal and peat supply/GDP[2]	129.8	131.8	116.7	100.0	87.9	86.8	85.6	-0.62	-1.73
Elec. consumption/GDP[2]	108.1	110.2	104.2	100.0	92.4	93.1	..	-0.22	-0.66
Elec. generation (TWh)	1966	2427	3203	4026	4274	4323	4329	2.91	1.78
Industrial production[2]	48.6	54.2	67.2	100.0	105.8	107.3	105.0	1.93	2.79

Source: *IEA/OECD Energy Balances of OECD Countries* , *OECD Main Economic Indicators*

(1) TPES/GDP in units of tce/2000 thousand US$, TPES/population in units of tce/capita.

(2) As index, 2000 = 100

3. COAL AND PEAT PRODUCTION BY TYPE*

	1978[1]	1980	1990	2000	2006	2007	2008e	Average annual percent change 78-90	90-07
Mtce:									
Coking coal	93.39	119.23	94.46	54.99	42.63	45.06	54.64	0.10	-4.26
Steam coal	417.76	499.84	637.09	686.03	744.28	731.55	742.52	3.58	0.82
Brown coal	15.55	20.81	38.76	37.34	37.03	34.52	33.25	7.91	-0.68
Peat	-	-	-	-	-	-	-	-	-
Mt:									
Coking coal	92.20	117.72	93.26	54.29	44.60	47.31	57.37	0.10	-3.91
Steam coal	484.60	592.46	760.39	839.69	946.87	934.38	949.19	3.83	1.22
Brown coal	31.16	42.78	79.91	77.62	76.43	71.29	68.66	8.16	-0.67
Peat	-	-	-	-	-	-	-	-	-

Source: *IEA/OECD Energy Balances of OECD Countries, IEA/OECD Energy Statistics of OECD Countries*

(1) Earliest year for which split by coal type is available.

* Please refer to notes in *Principles and Definitions* .

United States

4. FINAL CONSUMPTION OF ENERGY BY FUEL*

(Mtce)

	1973	1980	1990	2000	2005	2006	2007	Average annual percent change 73-90	90-07
TFC[1]	**1879.10**	**1873.27**	**1846.05**	**2207.12**	**2248.97**	**2242.45**	**2268.33**	**-0.10**	**1.22**
Coal and peat	105.35	80.24	77.70	44.78	43.60	44.11	43.17	-1.78	-3.40
Oil	990.71	984.48	976.13	1133.46	1211.23	1208.39	1193.11	-0.09	1.19
Gas	524.73	482.02	432.84	514.12	452.83	434.63	458.37	-1.13	0.34
Comb. renew/wastes	53.46	77.69	32.27	74.50	77.18	84.77	90.12	-2.93	6.23
Geothermal	-	-	0.48	0.74	1.22	1.32	1.48	-	6.85
Solar, wind, tide	-	-	-	2.06	1.76	1.83	1.89	-	-
Electricity	204.84	248.85	323.55	429.91	456.50	457.31	469.91	2.73	2.22
Heat	-	-	3.07	7.54	4.66	10.10	10.28	-	7.36
of which:									
Total industry	**562.57**	**553.39**	**403.65**	**472.82**	**406.06**	**420.09**	**417.10**	**-1.93**	**0.19**
Coal and peat	85.93	68.92	64.06	41.54	40.00	41.91	40.69	-1.71	-2.63
Oil	103.18	127.85	63.22	36.66	50.21	50.70	44.47	-2.84	-2.05
Gas	253.29	216.47	156.98	196.97	152.81	154.95	158.77	-2.77	0.07
Comb. renew/wastes	40.82	48.48	12.94	51.22	45.69	51.77	50.76	-6.54	8.37
Geothermal	-	-	-	0.16	0.15	0.16	0.17	-	-
Solar, wind, tide	-	-	-	-	-	-	-	-	-
Electricity	79.34	91.67	106.46	140.32	113.50	112.62	114.11	1.74	0.41
Heat	-	-	-	5.96	3.68	7.98	8.13	-	-
Total transport	**591.81**	**607.53**	**696.52**	**840.34**	**897.78**	**903.51**	**908.00**	**0.96**	**1.57**
Coal and peat	-	-	-	-	-	-	-	-	-
Oil	567.23	586.07	674.00	813.56	865.09	866.20	864.28	1.02	1.47
Gas	24.06	21.07	22.01	21.68	20.23	20.24	21.60	-0.52	-0.11
Comb. renew/wastes	-	-	-	4.55	11.53	16.17	21.12	-	-
Electricity	0.53	0.38	0.51	0.54	0.92	0.90	1.00	-0.22	4.10
Residential	**339.29**	**307.97**	**299.80**	**377.25**	**388.08**	**362.14**	**381.59**	**-0.73**	**1.43**
Coal and peat	4.20	2.24	2.10	1.94 e	-	-	-	-3.99	-
Oil	102.37	59.79	37.67	45.58	41.12	34.82	35.92	-5.71	-0.28
Gas	161.56	157.78	146.51	166.04	160.88	145.46	157.23	-0.57	0.42
Comb. renew/wastes	-	-	-	14.82	16.75	13.34	14.70	-	-
Geothermal	-	-	-	0.31	0.57	0.66	0.79	-	-
Solar, wind, tide	-	-	-	2.06	1.76	1.83	1.89	-	-
Electricity	71.17	88.15	113.52	146.50	166.99	166.04	171.05	2.78	2.44
Heat	-	-	-	-	-	-	-	-	-
Comm & public services	**212.45**	**203.65**	**227.49**	**275.81**	**286.25**	**282.04**	**292.46**	**0.40**	**1.49**
Coal and peat	4.87	2.60	3.41	1.30 e	2.98	2.17	2.41	-2.08	-2.02
Oil	69.72	45.72	30.44	23.79	23.85	21.32	20.76	-4.76	-2.23
Gas	85.83	86.69	87.50	104.53	98.36	93.15	99.43	0.11	0.75
Comb. renew/waste	-	-	-	1.77	2.94	3.09	3.00	-	-
Geothermal	-	-	-	0.27	0.49	0.50	0.52	-	-
Solar, wind, tide	-	-	-	-	-	-	-	-	-
Electricity	52.03	68.65	103.06	142.55	156.65	159.68	164.18	4.10	2.78
Heat	-	-	3.07 e	1.58 e	0.98 e	2.12 e	2.16 e	-	-2.06
Non-energy use	**126.74**	**145.63**	**170.06**	**218.61**	**228.39**	**231.29**	**226.28**	**1.74**	**1.69**
Coal and peat	-	-	-	-	-	-	-	-	-
Oil	126.74	145.63	150.23	193.72	207.84	210.46	204.94	1.00	1.84
Gas	-	-	19.84	24.89	20.54	20.83	21.34	-	0.43

Source: *IEA/OECD Energy Balances of OECD Countries*

(1) Total Final Consumption (TFC) excludes use in transformation and energy sectors.

* Please refer to notes in *Principles and Definitions*.

United States

5. COAL BALANCE*

(Mtce)

	1973	1980	1990	2000	2006	2007	2008e	Average annual percent change 73-90	90-07
Production	476.2	639.9	770.3	778.4	823.9	811.1	830.4	2.9	0.3
Imports	1.0	1.5	3.0	13.8	32.6	31.3	30.5	6.4	14.9
Exports	-44.3	-83.0	-95.6	-52.3	-41.5	-48.9	-68.0	4.6	-3.9
Stock changes	11.4	-21.0	-22.9	36.8	-29.6	-1.9	-3.6	x	x
Primary supply	**444.4**	**537.5**	**654.8**	**776.6**	**785.4**	**791.6**	**789.4**	**2.3**	**1.1**
Statistical difference	**18.1**	**-11.1**	**10.5**	**6.1**	**-19.7**	**-18.7**	**..**	**x**	**x**
Total transformation	**-348.6 e**	**-442.6 e**	**-585.8 e**	**-735.9 e**	**-718.5 e**	**-726.7 e**	**..**	**3.1**	**1.3**
Electricity and heat gen.	-309.9	-417.2	-565.7 e	-716.5 e	-707.0	-717.5	..	3.6	1.4
Main activity producers (1)	*-309.9*	*-417.2*	*-559.6*	*-699.7 e*	*-700.6*	*-712.3*	*..*	*3.5*	*1.4*
Autoproducers	-	-	*-6.2 e*	*-16.8 e*	*-6.4*	*-5.3*	*..*	-	*-0.9*
Gas works	-0.1	-	-2.7 e	-2.7	-2.9	-2.6	..	26.3	-0.2
Coal transformation(2)	-38.7 e	-25.3 e	-17.3 e	-16.6 e	-8.7 e	-6.5 e	..	-4.6	-5.6
BKB plants	-	-	-	-	-	-	..	-	-
Blast furnaces	*-25.8 e*	*-16.2 e*	*-11.4 e*	*-10.9 e*	*-8.6 e*	*-8.2 e*	*..*	*-4.7*	*-1.9*
Coke ovens	*-12.9*	*-9.1*	*-5.9*	*-5.7 e*	*-3.9*	*-4.1*	*..*	*-4.4*	*-2.2*
Patent fuel plants	-	-	-	-	*3.9*	*5.8*	*..*	-	-
Other transformation(3)	-	-	-	-	-	-	..	-	-
Own use	**-8.5**	**-3.6**	**-1.8**	**-2.0 e**	**-3.1**	**-3.0**	**..**	**-8.8**	**3.2**
Distribution losses	**-**	**-**	**-**	**-**	**-**	**-**	**..**	**x**	**x**
Final consumption(4)	**105.4**	**80.2**	**77.7**	**44.8**	**44.1**	**43.2**	**..**	**-1.8**	**-3.4**
Industry sector(5)	85.9	68.9	64.1	41.5	41.9	40.7	..	-1.7	-2.6
Iron and steel	*48.4 e*	*29.6 e*	*17.0 e*	*10.2 e*	*4.1 e*	*3.6 e*	*..*	*-6.0*	*-8.8*
Chemical	*11.9*	*11.2*	*12.4 e*	*9.3 e*	*7.4*	*7.3*	*..*	*0.2*	*-3.1*
Non-metallic minerals	*5.2*	*10.0*	*10.9*	*11.1*	*10.5*	*10.6*	*..*	*4.5*	*-0.2*
Paper, pulp and print	*6.8*	*7.1*	*10.2*	*3.6*	*6.7*	*6.4*	*..*	*2.4*	*-2.7*
Transport sector(6)	-	-	-	-	-	-	..	-	-
Other sectors(7)	19.4	11.3	13.6	3.2	2.2	2.5	..	-2.1	-9.5
Comm. and pub. services	*4.9*	*2.6*	*3.4*	*1.3 e*	*2.2*	*2.4*	*..*	*-2.1*	*-2.0*
Residential	*4.2*	*2.2*	*2.1*	*1.9 e*	-	-	*..*	*-4.0*	-
Non-energy use	-	-	-	-	-	-	..	-	-

Source: *IEA/OECD Energy Balances of OECD Countries*

(1) Main activity electricity and heat generation includes district heating.

(2) Coal transformation refers to the transformation of coal and peat to secondary and tertiary products (mainly coke, briquettes, coke oven gas and blast furnace gas).

(3) Other transformation includes liquefaction and non-specified transformation.

(4) Final Consumption includes non-energy use and energy use (industry, transport and other sectors).

(5) Please refer to notes in *Principles and Definitions* for detailed explanation.

(6) Transport sector includes rail and inland waterways.

(7) Other sectors includes commercial and public services, agriculture, and residential.

* "Coal" refers to all types of coal, primary (anthracite, coking coal, other bituminous coal, sub-bituminous coal, lignite/brown coal, peat) and derived fuels (including patent fuel, BKB/peat briquettes, coke oven coke, gas coke, coal tar, coke oven gas, gas works gas, blast furnace gas and oxygen steel furnace gas). Quantities have been converted to Mtce using calorific values reported by the respective countries. Please refer to notes in *Principles and Definitions*.

United States

6. USE OF COAL FOR SELECTED END-USES*

(million tonnes)

	1978	1980	1990	2000	2005	2006	2007	Average annual percent change 78-90	90-07
Steam coal	**484.73**	**546.58**	**701.66**	**866.16**	**932.69**	**920.37**	**934.63**	**3.13**	**1.70**
Total electricity and heat	408.08	478.66	637.00	835.53	762.86	778.33	763.53	3.78	1.07
Main activity producers	*408.08*	*478.66*	*630.72*	*820.06*	*756.35*	*773.48*	*758.92*	*3.70*	*1.09*
Autoproducers	-	-	*6.27*	*15.48*	*6.50*	*4.84*	*4.61*	-	*-1.79*
Patent fuel/BKB plants	-	-	-	-	119.79	94.20	127.67	-	-
Coke ovens	-	-	-	- e	-	-	-	-	-
Blast furnace inputs	-	-	0.18	2.50	1.25	1.41	1.55	-	13.39
Gas manufacture	-	-	-	-	-	-	-	-	-
Industry sector	44.63	44.80	52.17	35.77	35.63	36.86	35.49	1.31	-2.24
Iron and steel	*3.66*	*2.45*	*1.70*	*1.35*	*0.27*	*0.41*	*0.41*	*-6.21*	*-8.03*
Chemical	*10.08*	*12.67*	*14.26*	*10.51*	*7.23*	*7.50*	*7.38*	*2.93*	*-3.80*
Non-metallic minerals	*11.51*	*11.27*	*11.97*	*12.23*	*11.35*	*11.61*	*11.73*	*0.32*	*-0.12*
Paper, pulp and print	*7.54*	*8.05*	*11.28*	*4.07*	*6.82*	*7.23*	*7.04*	*3.41*	*-2.74*
Other industry	*11.83*	*10.37*	*12.98*	*7.62*	*9.96*	*10.11*	*8.94*	*0.77*	*-2.17*
Res, comm & pub serv[(1)]	8.54	5.34	5.99	3.68	3.58	2.61	2.77	-2.91	-4.44
Non-energy use	-	-	-	-	-	-	-	-	-
Coking coal	**68.89**	**61.46**	**35.27**	**25.96**	**20.89**	**20.90**	**20.52**	**-5.43**	**-3.13**
Total electricity and heat	-	-	-	-	-	-	-	-	-
Main activity producers	-	-	-	-	-	-	-	-	-
Autoproducers	-	-	-	-	-	-	-	-	-
Patent fuel/BKB plants	-	-	-	-	2.81	2.26	2.37	-	-
Coke ovens	64.77	60.47	35.27	25.96 e	18.45	18.56	18.24	-4.94	-3.80
Blast furnace inputs	-	-	-	-	-	-	-	-	-
Gas manufacture	-	-	-	-	-	-	-	-	-
Industry sector	-	-	-	-	-	-	-	-	-
Iron and steel	-	-	-	-	-	-	-	-	-
Chemical	-	-	-	-	-	-	-	-	-
Non-metallic minerals	-	-	-	-	-	-	-	-	-
Paper, pulp and print	-	-	-	-	-	-	-	-	-
Other industry	-	-	-	-	-	-	-	-	-
Res, comm & pub serv[(1)]	-	-	-	-	-	-	-	-	-
Non-energy use	-	-	-	-	-	-	-	-	-
Brown coal/lignite	**30.77**	**42.13**	**79.02**	**74.27**	**76.14**	**75.79**	**71.85**	**8.18**	**-0.56**
Total electricity and heat	28.49	37.78	72.04	70.01	70.49	68.63	65.48	8.04	-0.56
Main activity producers	*28.49*	*37.78*	*70.94*	*68.76*	*68.44*	*66.62*	*65.48*	*7.90*	*-0.47*
Autoproducers	-	-	*1.10*	*1.25*	*2.06*	*2.01*	-	-	-
Patent fuel/BKB plants	-	-	-	-	-	-	-	-	-
Coke ovens	-	-	-	-	-	-	-	-	-
Gas manufacture	-	-	5.64	5.67	5.39	5.59	5.33	-	-0.32
Industry sector	2.19	2.80	1.24	1.42	0.29	0.29	0.32	-4.61	-7.61
Iron and steel	-	-	-	-	-	-	-	-	-
Chemical	-	*0.17*	*0.23*	*0.24*	*0.24*	*0.24*	*0.26*	-	*0.51*
Non-metallic minerals	-	-	*0.00*	*0.00*	*0.01*	*0.01*	*0.01*	-	*12.13*
Paper, pulp and print	-	-	-	-	-	-	-	-	-
Other industry	*2.19*	*2.63*	*1.01*	*1.18*	*0.05*	*0.05*	*0.05*	*-6.27*	*-15.80*
Res, comm & pub serv[(1)]	0.09	0.13	0.11	0.05	0.01	0.01	0.10	1.52	-0.33
Non-energy use	-	-	-	-	-	-	-	-	-

Source: *IEA/OECD Energy Statistics of OECD Countries*

(1) Residential, commercial and public services.

* Please refer to notes in *Principles and Definitions*.

United States

7. FUEL PRICES TO END USERS*

	1978[1]	1980	1990	2000	2004	2005	2006	2007	2008
				(US dollars / tce)					
For electricity generation									
Steam coal	29.96	36.39	38.52	31.51	35.48	40.50	44.47	46.45	54.40
Heavy fuel oil	62.13	124.76	97.68	125.20	142.64	205.30	228.94	252.05	422.64
Natural gas	43.89	67.87	71.64	134.45	183.34	253.47	213.57	218.95	281.87
For industry									
Steam coal	36.26	41.85	40.00	37.77	46.79	56.31	61.57	64.85	75.60
Coking coal	48.94	61.20	52.01	48.41	66.99	91.26	101.49	103.44	128.62
High sulphur fuel oil	52.81	100.43	76.81	118.29	144.77	207.40	240.01	271.97	391.62
Low sulphur fuel oil	..	..	..	..	..	..	..	..	..
Natural gas	50.94	76.71	86.68	132.99	196.04	252.91	234.92	228.49	287.08
				(US dollars / unit)[2]					
For electricity generation									
Steam coal	26.11	31.72	33.57	27.46	30.92	35.30	38.76	40.48	47.41
Heavy fuel oil	88.65	178.01	139.37	178.64	203.53	292.94	326.67	359.64	603.05
Natural gas	56.43	87.26	92.11	172.86	235.72	325.89	274.59	281.51	362.40
For industry									
Steam coal	33.57	38.74	37.03	34.97	43.32	52.12	56.99	60.04	69.99
Coking coal	49.57	61.99	52.68	49.04	67.85	92.44	102.79	104.77	130.28
High sulphur fuel oil	75.35	143.30	109.60	168.79	206.57	295.93	342.47	388.06	558.79
Low sulphur fuel oil	..	..	..	..	..	..	..	..	..
Natural gas	65.50	98.63	111.44	170.99	252.05	325.17	302.04	293.77	369.11

Source: *IEA/OECD Energy Prices & Taxes*

(1) Earliest year for which split by coal type is available.

(2) For steam coal, coking coal and heavy fuel oil per metric tonne; for natural gas per 10^7 kilocalories GCV.

* Please refer to notes in *Principles and Definitions*.

8. COAL TRADE BY TYPE OF COAL*

(Mtce)

	1973	1980	1990	2000	2004	2005	2006	2007	2008e
Total imports	**1.03**	**1.53**	**2.96**	**13.78**	**28.93**	**27.55**	**32.61**	**31.28**	**30.51**
Hard coal	0.10	0.97	2.31	10.53	23.04	24.49	29.05	29.13	27.39
Coking coal	*..*	*-*	*-*	*1.57*	*1.88*	*1.51*	*1.45*	*1.43*	*1.49*
Steam coal	*..*	*0.97*	*2.31*	*8.96*	*21.16*	*22.97*	*27.61*	*27.70*	*25.89*
Brown coal / lignite	-	-	-	0.04	0.05	0.06	0.09	0.05	0.06
Peat	-	-	-	-	-	-	-	-	-
Coal products[1]	0.92	0.56	0.65	3.21	5.84	3.00	3.46	2.09	3.06
Total exports	**44.33**	**82.98**	**95.58**	**52.33**	**39.47**	**41.48**	**41.51**	**48.86**	**67.99**
Hard coal	43.06	81.19	95.06	51.33	38.26	39.88	40.05	47.47	66.19
Coking coal	*..*	*57.98*	*58.31*	*30.16*	*22.49*	*24.01*	*23.04*	*26.97*	*35.65*
Steam coal	*..*	*23.20*	*36.75*	*21.17*	*15.77*	*15.87*	*17.01*	*20.51*	*30.54*
Brown coal / lignite	-	0.03	0.03	0.03	0.10	0.11	0.09	0.15	0.13
Peat	-	-	-	-	-	-	-	-	-
Coal products[1]	1.27	1.76	0.49	0.97	1.12	1.49	1.37	1.23	1.67

Source: *IEA/OECD Energy Balances of OECD Countries, IEA/OECD Energy Statistics of OECD Countries*

(1) Coal products includes products derived from coal, for example: coke, coal tar, briquettes, patent fuels.

* Please refer to notes in *Principles and Definitions*.

United States

9. HARD COAL IMPORTS BY ORIGIN*

(thousand tonnes)

	1978[1]	1980	1990	2000	2004	2005	2006	2007	2008e
Hard Coal	**2679**	**1083**	**2449**	**11271**	**24635**	**27506**	**32691**	**32865**	**30912**
Coking Coal	**-**	**-**	**-**	**1547**	**1987**	**1603**	**1533**	**1515**	**1580**
Australia	-	-	-	-	182	144	72	-	-
Canada	-	-	-	1511	1735	1458	1461	1469	1580
Czech Republic	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-
Poland	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-
United States	-	-	-	-	-	-	-	-	-
Other OECD	-	-	-	-	-	-	-	46	-
China, People's Rep.	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-
South Africa	-	-	-	-	-	-	-	-	-
Former USSR[2]	-	-	-	-	-	-	-	-	-
Russia[3]	-	-	-	-	-	-	-	-	-
Other Former USSR[3]	-	-	-	-	*70*	-	-	-	-
Venezuela	-	-	-	36	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-
Non-specified/other	-	-	-	-	-	1	-	-	-
Steam coal	**2679**	**1083**	**2449**	**9724**	**22648**	**25903**	**31158**	**31350**	**29332**
Australia	933	-	22	152	86	66	150	60	135
Canada	49	37	883	155	764	244	288	209	140
Czech Republic	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-
Poland	645	287	-	-	68	70	-	-	-
United Kingdom	-	-	5	-	40	1	1	1	-
United States	-	-	-	-	-	-	-	-	-
Other OECD	-	-	-	6	103	39	96	32	1
China, People's Rep.	-	-	-	18	132	18	39	46	41
Colombia	-	-	1296	6928	15115	19247	22990	24370	23824
Indonesia	-	-	-	651	1979	2239	2855	3323	3060
South Africa	996	699	-	-	31	70	56	-	-
Former USSR[2]	-	-	-	-	-	-	-	-	-
Russia[3]	-	-	-	-	*240*	*357*	*853*	*122*	-
Other Former USSR[3]	-	-	-	-	*56*	*79*	-	*34*	*34*
Venezuela	-	-	238	1813	4024	3387	3809	3107	2097
Vietnam	-	-	-	-	-	85	-	-	-
Non-specified/other	56	60	5	1	10	1	21	46	-

Source: IEA/OECD Coal Statistics

(1) Earliest year for which split by coal type is available.

(2) If no detail.

(3) Data for former republics are not available separately for some OECD member countries.

* Please refer to notes in *Principles and Definitions*.

United States

10. COKING COAL EXPORTS BY DESTINATION*

(thousand tonnes)

	1978[1]	1980	1990	2000	2004	2005	2006	2007	2008e
Total Exports	**27433**	**57246**	**57568**	**29780**	**24349**	**26001**	**24946**	**29198**	**38599**
Exports to:									
Total OECD	**23813**	**49478**	**47603**	**22696**	**17660**	**19414**	**17475**	**18314**	**25183**
Australia	-	-	-	-	-	-	-	-	-
Austria	-	-	-	-	-	239	30	125	294
Belgium	956	2819	5532	2343	1016	1470	1596	1424	1650
Canada	5410	5694	3988	3501	3431	4034	4134	3299	3266
Czech Republic	-	-	-	-	-	-	-	-	-
Denmark	-	141	50	-	-	-	-	-	210
Finland	-	20	86	288	212	260	301	90	240
France	1468	4082	4501	2197	1000	1116	1280	1584	1884
Germany	560	1549	636	419	206	473	927	1056	1030
Greece	-	48	-	-	-	-	-	-	126
Hungary	-	-	-	65	-	-	70	-	10
Iceland	-	6	28	48	82	57	19	30	50
Ireland	-	198	-	-	-	-	-	-	68
Italy	2905	5546	6377	3297	1786	2203	2976	3076	2612
Japan	8991	19914	10019	852	2876	1652	298	-	1266
Korea	505	699	2908	1096	223	727	132	129	970
Luxembourg	-	-	-	-	-	-	-	-	-
Mexico	-	-	3	355	770	588	338	316	642
Netherlands	929	2390	3606	1735	1648	1548	1303	1848	3072
New Zealand	-	-	-	-	-	-	-	-	-
Norway	68	252	99	42	32	18	-	10	78
Poland	-	-	-	-	-	-	-	401	1552
Portugal	265	305	234	198	88	-	-	-	-
Slovak Republic	-	-	-	-	-	-	54	284	643
Spain	688	2123	3156	1993	1313	1685	1222	1337	1172
Sweden	299	916	764	642	570	464	426	483	523
Switzerland	-	99	-	-	22	-	-	-	257
Turkey	409	796	1906	1584	1151	1642	1106	1306	1703
United Kingdom	360	1881	3710	2041	1234	1238	1263	1516	1865
United States	-	-	-	-	-	-	-	-	-
Total Non-OECD	**3620**	**7720**	**9965**	**6698**	**6600**	**6587**	**7471**	**10884**	**13416**
Brazil	1342	2864	5219	4093	3076	3113	3935	5813	5457
Chinese Taipei	205	148	357	116	448	-	-	-	71
Egypt	218	749	586	682	739	280	649	1379	1230
Hong Kong, China	-	-	-	-	-	-	-	-	-
India	-	-	-	22	764	1078	890	800	1439
Israel	-	-	50	56	-	-	-	-	-
Romania	673	853	1559	443	121	547	75	209	1518
Oth. Africa & Mid. East	1	642	485	269	381	377	382	500	648
Other Latin America	914	1421	648	184	257	207	366	296	472
Other Asia & Oceania	24	25	21	-	366	-	-	-	-
Other Europe and FSU	243	1018	1040	833	448	985	1174	1887	2581
Non-Specified/Other	**-**	**48**	**-**	**386**	**89**	**-**	**-**	**-**	**-**

Source: IEA/OECD Coal Statistics

(1) Earliest year for which split by coal type is available.

* Please refer to notes in *Principles and Definitions*.

United States

11. STEAM COAL EXPORTS BY DESTINATION*

(thousand tonnes)

	1978[1]	1980	1990	2000	2004	2005	2006	2007	2008e
Total Exports	**9837**	**25981**	**38344**	**23226**	**19002**	**19094**	**19914**	**24161**	**35087**
Exports to:									
Total OECD	**9370**	**24198**	**32669**	**21978**	**17217**	**16914**	**18450**	**20273**	**31433**
Australia	-	-	1	-	-	-	-	-	-
Austria	-	-	-	-	-	-	-	75	-
Belgium	-	1383	2178	278	555	411	363	483	1144
Canada	8782	10136	10083	13524	12680	13625	13909	13386	17553
Czech Republic	-	-	-	-	-	-	-	-	-
Denmark	-	1356	2842	70	67	66	348	72	139
Finland	-	233	-	-	-	-	360	176	185
France	38	2984	1740	564	-	28	195	578	1263
Germany	36	746	320	467	376	133	569	1009	1256
Greece	-	4	-	-	-	-	-	-	66
Hungary	-	-	-	-	-	-	-	-	-
Iceland	-	-	15	-	-	-	-	-	-
Ireland	-	159	1322	456	-	-	-	74	74
Italy	22	924	4451	65	122	23	-	135	287
Japan	160	1014	2074	3181	1139	236	4	5	306
Korea	300	552	719	508	665	580	384	72	255
Luxembourg	-	-	-	-	-	-	-	-	-
Mexico	-	-	188	373	80	341	156	148	457
Netherlands	27	1834	3982	643	591	829	593	2278	3279
New Zealand	-	-	1	-	-	-	-	-	-
Norway	-	-	62	74	-	-	-	-	-
Poland	-	-	-	-	-	-	-	-	109
Portugal	-	24	1386	343	317	143	267	258	391
Slovak Republic	-	-	-	-	-	-	-	-	-
Spain	-	970	282	441	67	-	250	-	990
Sweden	-	4	21	-	-	71	-	-	144
Switzerland	-	-	-	-	-	-	-	-	149
Turkey	5	-	15	55	-	67	-	1	34
United Kingdom	-	1875	987	936	558	361	1052	1523	3352
United States	-	-	-	-	-	-	-	-	-
Total Non-OECD	**95**	**1699**	**5673**	**971**	**1725**	**2022**	**1464**	**3888**	**3527**
Brazil	11	98	79	22	883	693	176	95	328
Chinese Taipei	-	530	3820	-	1	1	3	2	-
Egypt	-	-	-	-	-	-	-	-	-
Hong Kong, China	-	-	108	1	-	-	-	-	-
India	-	-	-	-	224	217	71	1	72
Israel	-	-	530	-	-	-	-	-	-
Romania	-	413	-	-	135	844	927	1069	73
Oth. Africa & Mid. East	1	56	682	825	358	63	190	2212	1715
Other Latin America	82	575	402	49	95	89	19	431	817
Other Asia & Oceania	1	19	5	8	-	-	4	10	220
Other Europe and FSU	-	8	47	66	29	115	74	68	302
Non-Specified/Other	**372**	**84**	**2**	**277**	**60**	**158**	**-**	**-**	**127**

Source: IEA/OECD Coal Statistics

(1) Earliest year for which split by coal type is available.

* Please refer to notes in *Principles and Definitions*.

United States

12. COAL IMPORT VALUES BY ORIGIN*

(average unit value, CIF, US$/tonne)

	1988	1990	1995	2003	2004	2005	2006	2007	2008
Coking coal[1]	**..**	**..**	**..**	**52.73**	**59.82**	**111.68**	**120.55**	**105.88**	**129.17**
Imports from:									
Australia	..	..	..	39.47	51.71	61.90	65.04	..	..
Canada	..	..	..	54.68	61.37	116.62	123.29	107.23	129.17
Czech Republic	..	..	..	..	..	..	..	..	..
Poland	..	..	..	..	..	..	..	..	..
United States	..	..	..	..	..	..	..	..	..
China	..	..	..	..	..	..	..	..	..
Colombia	..	..	..	..	..	..	..	..	..
South Africa	..	..	..	..	..	..	..	..	..
Former USSR[2]	..	..	..	..	..	..	..	..	..
Steam coal[3]	**29.67**	**36.86**	**36.50**	**33.76**	**40.10**	**47.39**	**50.55**	**49.53**	**61.88**
Imports from:									
Australia	53.06	45.99	34.16	33.45	34.61	35.09	48.18	34.93	58.63
Canada	29.50	26.95	35.65	49.29	54.05	69.63	60.63	59.70	53.24
Czech Republic	..	..	..	..	..	..	..	..	..
Poland	..	..	..	..	..	..	..	..	..
United States	..	..	..	..	..	..	..	..	..
China	..	..	..	54.09	60.26	103.19	109.06	103.58	..
Colombia	37.02	40.64	34.33	31.35	38.17	47.17	51.34	51.03	62.85
South Africa	..	..	..	..	104.43	..	33.61	..	107.32
Former USSR[2]	..	..	..	59.59	94.40	63.72	57.81	60.80	..

Source: IEA/OECD Coal Statistics

Note: On occasion, shipment of extremely small quantities of high valued coal results in high import costs.

(1) Weighted average of individual countries using import volumes as weights. Prices exclude intra-EU trade.

(2) Former USSR until 1991, Russia starting in 1992.

(3) Bituminous steam coal only. Weighted average of individual countries using volumes as weights. Prices exclude intra-EU trade.

* Please refer to notes in *Principles and Definitions*.

United States

13. COAL EXPORT VALUES BY DESTINATION*

(average unit value, FOB, US$/tonne)

	1988	1990	1995	2003	2004	2005	2006	2007	2008
Coking coal[1]	**48.69**	**51.55**	**48.47**	**49.11**	**70.14**	**89.91**	**111.72**	**98.10**	**148.39**
Exports to:									
Belgium	48.26	52.98	50.67	50.48	66.19	88.93	99.65	98.07	127.74
Canada	50.46	41.81	40.31	40.37	55.21	71.82	85.70	84.83	100.31
Denmark	29.75	30.83	x	x	x	x	x	x	61.92
Finland	46.00	49.30	47.01	48.12	65.30	86.04	90.82	103.00	241.61
France	48.37	49.93	49.69	55.56	71.81	99.69	102.30	96.39	126.48
Germany	48.68	51.40	52.38	38.11	50.95	111.12	108.85	92.86	121.70
Greece	x	x	x	x	x	x	x	x	147.74
Ireland	46.65	x	x	x	x	x	x	x	90.00
Italy	49.22	52.78	51.38	54.49	66.99	86.21	104.96	104.34	121.55
Japan	47.76	50.34	45.35	56.01	98.14	100.61	89.80	x	157.59
Netherlands	46.72	51.94	51.32	52.13	72.20	93.04	95.44	94.55	129.86
Norway	65.44	66.52	x	96.37	99.46	109.84	x	122.19	144.71
Portugal	46.40	50.47	51.20	x	35.00	x	x	x	x
Spain	49.56	53.97	53.04	49.47	49.70	77.98	97.67	102.18	131.61
Sweden	50.92	53.76	52.60	54.72	54.31	69.27	100.90	104.18	117.30
Switzerland	x	x	x	x	56.90	x	x	x	116.02
Turkey	47.70	50.88	47.93	47.95	73.43	111.52	102.15	96.89	224.53
United Kingdom	49.42	53.46	51.83	50.77	61.35	92.21	108.20	99.41	133.40
Other OECD	x	x	x	x	x	x	x	x	x
Non-OECD	x	x	x	x	x	x	x	x	x
Steam coal[1]	**42.06**	**39.99**	**38.94**	**37.00**	**53.93**	**67.09**	**55.66**	**52.61**	**62.76**
Exports to:									
Belgium	36.73	41.48	38.66	34.26	46.26	58.94	58.36	66.32	89.15
Canada	42.50	33.62	33.74	38.12	46.69	60.16	49.06	44.34	38.83
Denmark	33.34	37.89	35.09	31.05	38.00	42.00	59.11	84.60	96.49
Finland	x	x	39.17	28.28	x	x	56.58	99.11	125.87
France	38.45	40.87	38.72	361.32	114.68	40.17	64.19	91.66	102.43
Germany	52.99	38.83	36.72	29.34	37.13	48.08	69.89	63.28	83.25
Greece	44.09	x	40.89	62.64	x	x	x	x	72.00
Ireland	45.85	43.05	39.75	31.44	x	x	x	73.21	101.56
Italy	44.17	44.93	45.97	46.67	46.90	89.78	51.04	76.87	116.28
Japan	39.94	41.76	38.61	166.40	91.47	105.21	166.53	198.41	143.02
Netherlands	41.93	43.17	40.53	33.13	43.79	76.28	69.91	69.83	79.14
Norway	47.69	58.16	x	x	x	x	x	x	x
Portugal	41.97	44.04	39.99	34.47	45.22	50.33	56.43	59.75	67.00
Spain	63.83	39.25	45.59	25.90	29.02	61.22	49.43	45.82	72.22
Sweden	40.47	38.57	53.51	44.78	260.00	117.24	x	x	56.00
Switzerland	x	x	x	x	x	x	x	x	65.00
Turkey	44.09	23.41	34.12	44.93	44.97	104.55	46.09	44.99	82.72
United Kingdom	41.09	47.41	37.01	29.88	38.73	74.26	52.59	51.74	68.99
Other OECD	x	x	x	x	x	x	x	x	x
Non-OECD	x	x	x	x	x	x	x	x	x

Source: IEA/OECD Coal Statistics

Note: On occasion, shipment of extremely small quantities of high valued coal results in high export costs.

(1) Weighted average of individual countries using import volumes as weights.

* Please refer to notes in *Principles and Definitions* .

PART IV

NON-OECD COAL DATA

GENERAL NOTES

In Part IV, the statistical tables on world hard coal supply and end-use and on coal production, consumption and trade for the major non-OECD countries supplement the information presented in Parts I and II of this book[1].

World hard coal supply and end-use statistics

This section provides historical data for world hard coal supply and end-use for 1980, 1985, 1990, 1995, 2000 and from 2005 to 2007. These data summarise information published in the IEA/OECD publications *Energy Statistics of OECD Countries, 2009 Edition*, *Energy Balances of Non-OECD Countries, 2009 Edition* and *Energy Statistics of Non-OECD Countries, 2009 Edition*. In cases where it is available, estimated coal trade statistics are shown for 2008.

Coal balances

These tables show all coal use for selected non-OECD countries in a format whereby coal production, imports, exports and stock changes "balance" transformation uses and final consumption. The transformation of coal into secondary products is clearly accounted for.

Data for 2008 are preliminary and revised in the IEA quarterly publication *Oil, Gas, Coal and Electricity Quarterly Statistics*.

Calorific values used to convert primary coal data for OECD countries to million tons of coal equivalent (Mtce) are reported on page xxviii. Calorific values of coal in non-OECD countries are published annually in *Energy Balances of Non-OECD Countries*.

Coal trade

Trade tables show steam and coking coal imports and exports by origin and destination for major non-OECD coal importers and exporters.

In order to provide a breakdown of trade between steam coal and coking coal, the data have been gathered from a variety of sources, including from official submissions by OECD Member countries to the IEA Secretariat and UNECE Member countries to the UNECE Secretariat (in Geneva), published national sources for each country and from commercial publications. Data reported by exporting countries have been used where no importing country detail is available. Similarly, importing country data have been used in cases where exporting countries do not provide a breakdown of their exports by coal type.

Due to classification anomalies and differences in reporting methods and time periods covered, the detailed data in the trade tables may not agree with coal trade data presented elsewhere in *Coal Information*.

1. Data for Kazakhstan, Russia and Ukraine are available only after 1990. Data for all former USSR republics as well as data for the total Former USSR before 1990 are available on CD.

WORLD HARD COAL SUPPLY AND END-USE 1980
(million tonnes)

				End-use sectors		
	Production	Imports	Exports	Steel industry	Power and heat plants	Households
Total OECD	**1335.1**	**217.8**	**196.5**	**301.0**	**820.8**	**41.1**
Australia[1]	71.6	0.0	42.4	7.4	23.9	0.0
Austria	-	2.9	-	2.4	0.0	0.3
Belgium	8.0	10.1	0.5	8.0	5.5	1.3
Canada	20.2	15.6	15.3	7.4	12.7	0.0
Czech Republic	27.7	2.3	5.8	13.5	-	2.3
Denmark	-	10.0	0.0	-	9.3	0.0
Finland	-	4.7	-	0.1	4.8	0.1
France	20.2	29.4	0.4	15.7	24.5	2.7
Germany	94.5	16.2	12.7	38.9	45.1	0.7
Greece	-	0.5	-	0.4	-	0.0
Hungary	0.9	0.8	-	1.4	-	0.2
Ireland	0.1	1.2	0.0	-	0.0	0.7
Italy	-	17.2	-	11.3	5.0	0.2
Japan[1]	18.0	68.6	0.1	66.0	9.6	0.5
Korea	18.6	5.0	-	4.7	1.9	-
Mexico	3.1	0.8	-	4.0	-	-
Netherlands	-	7.2	1.5	3.7	2.4	0.1
New Zealand	1.9	-	0.1	0.2	0.3	0.2
Poland	193.1	1.0	30.4	25.4	92.6	19.7
Portugal	0.2	0.4	-	0.3	0.2	0.0
Spain	12.8	5.7	0.0	5.9	9.5	0.4
Sweden	0.0	2.2	0.0	1.7	0.1	0.0
Turkey	3.6	0.9	0.0	2.6	0.8	0.2
United Kingdom	130.1	7.3	4.0	13.7	92.0	8.9
United States	710.2	1.1	83.2	62.9	478.7	2.5
Other OECD[2]	0.3	6.7	0.1	3.6	2.1	0.0
Non-OECD Europe	**561.7**	**21.5**	**29.4**	**142.1**	**161.0**	**0.0**
Former USSR	553.0	7.3	29.4	131.5	154.9	-
Former Yugoslavia	0.4	3.4	-	3.3	0.3	0.0
Other non-OECD Europe	8.3	10.8	-	7.2	5.8	-
Asia	**775.8**	**8.6**	**7.3**	**150.6**	**179.7**	**120.8**
PR of China	620.2	2.0	6.3	127.3	126.5	115.7
Hong Kong, China	-	0.0	-	-	-	-
India	111.0	0.6	0.1	17.4	44.0	4.4
Indonesia	0.3	0.0	0.1	-	-	-
DPR of Korea	34.1	0.5	0.1	4.3	5.3	-
Taipei, Chinese	2.6	4.6	-	1.5	2.4	-
Other Asia	7.6	0.9	0.6	0.1	1.5	0.6
Africa and Middle East	**120.8**	**2.2**	**28.6**	**17.4**	**53.5**	**2.4**
Egypt	-	0.8	-	0.9	-	-
Israel	-	0.0	-	-	-	-
South Africa	115.1	-	28.2	13.8	52.3	2.3
Zimbabwe	2.8	0.1	0.2	1.0	0.4	0.0
Other Africa / Middle East	2.9	1.3	0.2	1.8	0.8	0.0
Latin America	**7.5**	**6.4**	**0.1**	**7.8**	**1.9**	**0.2**
Brazil	1.7	4.5	-	5.7	0.1	-
Colombia	4.2	-	0.1	0.7	0.7	0.2
Other Latin America	1.6	1.8	-	1.4	1.1	-
Total world	**2800.9**	**256.5**	**261.8**	**618.8**	**1216.9**	**164.5**

Source: *IEA/OECD Energy Statistics of OECD Countries* , *Energy Statistics of Non-OECD Countries*

(1) Fiscal year. See Principles and Definitions.

(2) Iceland, Luxembourg, Norway, Slovak Republic and Switzerland.

Note: Steel industry consumption includes consumption in coke ovens. Power and heat stations column includes hard coal used in electricity and CHP production by public utilities and autoproducers, and in district heating.

WORLD HARD COAL SUPPLY AND END-USE 1985
(million tonnes)

				End-use sectors		
	Production	Imports	Exports	Steel industry	Power and heat plants	Households
Total OECD	**1385.9**	**270.3**	**258.0**	**259.8**	**941.9**	**41.2**
Australia[1]	122.3	-	88.6	5.8	30.0	0.0
Austria	-	3.6	-	2.4	0.1	0.4
Belgium	7.7	9.3	1.3	7.8	5.1	1.4
Canada	34.3	14.6	27.4	6.4	13.3	0.1
Czech Republic	26.4	1.4	5.4	12.6	-	2.1
Denmark	-	12.5	0.1	-	11.3	0.0
Finland	-	5.1	0.0	0.1	4.1	0.0
France	17.1	18.8	1.0	12.0	16.1	2.3
Germany	88.8	15.5	9.2	31.7	49.7	0.4
Greece	-	2.0	0.2	-	0.3	0.0
Hungary	0.6	0.5	-	0.9	-	0.1
Ireland	0.1	1.9	0.0	0.0	0.1	1.1
Italy	-	22.2	-	10.5	8.9	0.2
Japan[1]	16.4	93.4	0.0	69.3	23.8	0.1
Korea	22.5	17.1	-	7.3	6.9	-
Mexico	5.2	0.6	-	3.8	1.5	-
Netherlands	0.1	11.6	1.4	4.1	4.9	0.1
New Zealand	2.3	-	0.4	0.1	0.5	0.1
Poland	191.6	1.1	36.1	20.5	95.8	20.4
Portugal	0.2	1.4	-	0.4	0.4	0.0
Spain	16.1	8.4	0.0	5.2	16.6	0.6
Sweden	0.0	4.9	0.1	1.6	1.8	-
Turkey	3.6	2.7	0.0	3.7	0.6	0.5
United Kingdom	94.1	12.7	2.4	10.3	75.7	8.6
United States	735.9	1.8	84.0	39.4	572.2	2.6
Other OECD[2]	0.5	7.1	0.2	4.0	2.1	0.0
Non-OECD Europe	**578.3**	**30.7**	**31.2**	**138.1**	**167.2**	**-**
Former USSR	569.0	11.4	31.2	124.0	160.6	-
Former Yugoslavia	0.4	4.7	-	4.7	0.3	-
Other non-OECD Europe	8.9	14.6	-	9.4	6.2	-
Asia	**1041.2**	**25.6**	**10.0**	**134.8**	**273.4**	**161.4**
PR of China	837.3	2.3	7.8	107.5	179.0	156.2
Hong Kong, China	-	5.5	-	-	5.2	-
India	150.5	2.0	0.2	18.9	74.7	4.6
Indonesia	1.9	-	1.1	-	-	-
DPR of Korea	40.0	2.5	0.3	5.0	6.0	-
Taipei, Chinese	1.9	10.1	-	2.7	5.2	-
Other Asia	9.8	3.2	0.6	0.7	3.3	0.5
Africa and Middle East	**180.1**	**6.8**	**47.8**	**17.6**	**68.9**	**1.9**
Egypt	-	1.2	-	1.2	-	-
Israel	-	3.1	-	-	2.9	-
South Africa	173.5	-	47.6	13.0	64.0	1.9
Zimbabwe	3.1	0.0	0.1	0.8	0.9	0.1
Other Africa / Middle East	3.5	2.5	0.1	2.6	1.1	0.0
Latin America	**12.3**	**9.7**	**3.2**	**11.8**	**2.4**	**0.2**
Brazil	1.7	8.0	-	9.5	0.1	-
Colombia	8.8	-	3.2	0.8	1.1	0.2
Other Latin America	1.9	1.6	-	1.5	1.2	0.0
Total world	**3197.8**	**343.0**	**350.2**	**562.1**	**1453.8**	**204.7**

Source: *IEA/OECD Energy Statistics of OECD Countries* , *Energy Statistics of Non-OECD Countries*

(1) Fiscal year. See Principles and Definitions.

(2) Iceland, Luxembourg, Norway, Slovak Republic and Switzerland.

Note: Steel industry consumption includes consumption in coke ovens. Power and heat stations column includes hard coal used in electricity and CHP production by public utilities and autoproducers, and in district heating.

WORLD HARD COAL SUPPLY AND END-USE 1990
(million tonnes)

				End-use sectors		
	Production	Imports	Exports	Steel industry	Power and heat plants	Households
Total OECD	**1447.6**	**305.0**	**275.2**	**242.8**	**1023.5**	**23.5**
Australia[1]	158.6	-	103.4	6.3	38.2	0.0
Austria	-	3.6	-	2.3	1.4	0.2
Belgium	2.4	14.8	0.7	7.3	6.6	0.7
Canada	37.7	14.2	31.0	5.0	12.2	0.0
Czech Republic	14.4	-	4.5	9.9	-	-
Denmark	-	10.3	0.1	-	9.4	0.0
Finland	-	6.1	-	0.8	3.9	0.0
France	11.2	19.4	0.6	11.1	11.0	1.6
Germany	76.6	13.6	5.5	24.1	51.9	0.3
Greece	-	1.4	-	-	-	0.0
Hungary	0.2	0.6	-	1.0	-	0.0
Ireland	0.0	3.1	0.0	0.0	2.0	1.1
Italy	0.1	20.4	-	8.8	10.8	0.1
Japan[1]	8.0	106.9	0.0	66.8	31.1	-
Korea	17.2	23.7	-	11.9	7.7	-
Mexico	6.9	0.2	0.0	2.9	4.0	-
Netherlands	-	17.4	2.5	3.9	8.7	0.0
New Zealand	2.4	0.0	0.3	-	0.3	0.0
Poland	147.7	0.6	28.1	18.3	77.6	10.9
Portugal	0.3	4.7	-	0.3	3.3	0.0
Spain	14.6	10.5	0.0	4.8	18.9	0.5
Sweden	0.0	3.5	0.0	1.6	1.2	-
Turkey	2.7	5.6	-	4.7	0.5	1.4
United Kingdom	92.8	14.8	2.3	10.2	84.0	4.2
United States	853.6	2.4	95.9	37.0	637.0	2.3
Other OECD[2]	0.3	7.3	0.3	3.9	2.0	0.1
Non-OECD Europe	**517.2**	**119.0**	**139.9**	**117.4**	**246.1**	**22.4**
Former USSR	512.3	106.5	139.9	109.9	238.5	22.2
Former Yugoslavia	0.3	1.0	-	0.8	0.3	-
Other non-OECD Europe	4.6	11.5	-	6.7	7.3	0.2
Asia	**1314.3**	**43.5**	**23.6**	**169.3**	**449.5**	**172.8**
PR of China	1050.7	2.0	17.3	134.0	302.0	167.0
Hong Kong, China	-	8.9	-	-	9.9	-
India	211.2	6.0	0.1	24.9	119.5	5.4
Indonesia	6.8	-	4.9	-	-	-
DPR of Korea	35.7	2.6	0.5	5.1	5.6	-
Taipei, Chinese	0.5	18.5	-	4.2	8.6	-
Other Asia	9.5	5.4	0.8	1.1	3.9	0.4
Africa and Middle East	**183.3**	**8.1**	**50.1**	**16.4**	**82.8**	**2.4**
Egypt	-	1.3	-	1.3	0.0	-
Israel	-	4.0	-	-	3.7	-
South Africa	174.8	-	49.9	12.3	74.3	2.3
Zimbabwe	5.3	0.1	0.1	0.9	2.7	0.1
Other Africa / Middle East	3.1	2.7	0.1	2.0	2.2	0.0
Latin America	**26.8**	**13.3**	**15.4**	**12.9**	**4.3**	**0.2**
Brazil	0.6	10.1	-	10.3	0.0	-
Colombia	21.4	-	13.5	0.8	1.5	0.2
Other Latin America	4.7	3.2	1.9	1.8	2.7	0.0
Total world	**3489.2**	**489.1**	**504.2**	**558.9**	**1806.2**	**221.3**

Source: *IEA/OECD Energy Statistics of OECD Countries* , *Energy Statistics of Non-OECD Countries*

(1) Fiscal year. See Principles and Definitions.

(2) Iceland, Luxembourg, Norway, Slovak Republic and Switzerland.

Note: Steel industry consumption includes consumption in coke ovens. Power and heat stations column includes hard coal used in electricity and CHP production by public utilities and autoproducers, and in district heating.

WORLD HARD COAL SUPPLY AND END-USE 1995
(million tonnes)

				End-use sectors		
	Production	Imports	Exports	Steel industry	Power and heat plants	Households
Total OECD	**1397.9**	**349.3**	**296.4**	**210.1**	**1098.0**	**23.7**
Australia[1]	191.1	-	136.7	6.1	40.6	0.0
Austria	0.0	3.0	0.0	1.9	1.1	0.1
Belgium	0.6	14.1	0.8	4.9	6.2	0.5
Canada	38.6	9.7	34.0	4.2	9.6	0.0
Czech Republic	10.8	0.9	5.2	6.6	-	-
Denmark	-	13.0	0.0	-	10.4	0.0
Finland	-	5.8	0.0	1.7	4.1	0.0
France	8.5	13.2	0.4	9.4	8.8	1.0
Germany	58.9	15.1	1.9	13.8	55.1	0.3
Greece	-	1.4	-	-	0.1	0.0
Hungary	-	1.4	-	1.4	-	-
Ireland	0.0	2.9	0.0	-	2.3	0.3
Italy	-	18.5	-	7.0	8.2	0.1
Japan[1]	6.3	127.4	0.0	62.9	47.6	-
Korea	5.7	45.8	-	14.1	16.7	-
Mexico	9.3	0.8	-	2.7	7.6	-
Netherlands	-	17.2	2.9	4.0	9.3	0.0
New Zealand	3.2	-	1.3	-	0.3	0.0
Poland	137.2	1.5	31.9	16.6	55.8	13.9
Portugal	-	6.0	-	0.5	4.6	-
Spain	13.5	13.4	-	3.3	23.3	0.4
Sweden	-	3.5	0.0	1.7	0.9	-
Turkey	2.2	5.9	-	4.2	1.2	1.3
United Kingdom	53.0	15.9	0.9	8.1	59.6	2.8
United States	858.6	6.5	80.3	31.3	723.0	2.8
Other OECD[2]	0.3	6.4	0.2	3.5	1.6	0.0
Non-OECD Europe	**318.2**	**51.4**	**49.6**	**84.4**	**183.4**	**15.4**
Former USSR	317.5	42.9	49.6	77.9	181.1	15.4
Former Yugoslavia	0.1	0.2	0.0	0.0	0.1	-
Other non-OECD Europe	0.6	8.3	-	6.4	2.2	-
Asia	**1685.5**	**62.0**	**63.9**	**270.4**	**728.0**	**141.0**
PR of China	1343.0	1.6	28.6	232.9	502.3	134.8
Hong Kong, China	-	9.1	-	-	9.7	-
India	268.3	12.5	0.7	31.2	190.5	5.4
Indonesia	35.5	0.6	31.3	-	-	-
DPR of Korea	23.7	1.0	0.4	1.0	4.0	-
Taipei, Chinese	0.2	28.7	-	4.2	16.4	-
Other Asia	14.8	8.3	2.9	1.1	5.1	0.8
Africa and Middle East	**214.2**	**12.4**	**59.9**	**12.2**	**99.2**	**2.6**
Egypt	-	1.5	-	1.7	-	-
Israel	-	7.1	-	-	6.6	-
South Africa	206.2	0.4	59.7	7.7	86.4	2.6
Zimbabwe	4.7	-	0.2	0.7	2.8	0.0
Other Africa / Middle East	3.3	3.5	0.0	2.0	3.4	0.0
Latin America	**31.3**	**15.7**	**22.6**	**13.9**	**4.7**	**0.2**
Brazil	0.2	11.8	-	11.4	0.0	-
Colombia	25.7	-	18.3	1.1	1.8	0.2
Other Latin America	5.5	3.9	4.3	1.4	2.9	0.0
Total world	**3647.2**	**490.7**	**492.4**	**590.9**	**2113.3**	**182.9**

Source: *IEA/OECD Energy Statistics of OECD Countries* , *Energy Statistics of Non-OECD Countries*

(1) Fiscal year. See Principles and Definitions.

(2) Iceland, Luxembourg, Norway, Slovak Republic and Switzerland.

Note: Steel industry consumption includes consumption in coke ovens. Power and heat stations column includes hard coal used in electricity and CHP production by public utilities and autoproducers, and in district heating.

WORLD HARD COAL SUPPLY AND END-USE 2000
(million tonnes)

				End-use sectors		
	Production	Imports	Exports	Steel industry	Power and heat plants	Households
Total OECD	**1387.9**	**441.8**	**312.6**	**192.2**	**1247.2**	**14.0**
Australia[1]	239.4	-	187.0	4.9	51.1	-
Austria	-	3.4	-	1.9	1.4	0.1
Belgium	0.4	11.3	1.4	4.3	4.4	0.3
Canada	33.8	18.8	32.1	4.2	15.7	0.0
Czech Republic	8.1	0.2	3.4	4.6	-	-
Denmark	-	6.4	0.1	-	6.2	0.0
Finland	-	5.1	-	1.3	3.5	0.0
France	3.8	19.0	0.1	7.0	10.4	0.7
Germany	37.4	27.9	0.3	11.6	51.8	0.1
Greece	-	1.2	0.1	-	0.0	-
Hungary	-	1.2	-	1.3	-	-
Ireland	-	2.7	0.0	-	2.3	0.4
Italy	-	19.0	0.0	6.7	9.5	0.0
Japan[1]	3.0	150.3	0.0	60.0	64.9	-
Korea	4.2	63.7	-	16.4	36.2	-
Mexico	11.3	2.4	0.0	2.7	9.6	-
Netherlands	-	22.3	9.1	3.0	8.6	0.0
New Zealand	3.6	-	1.5	-	0.5	0.0
Poland	103.3	1.5	23.2	13.2	51.7	7.5
Portugal	-	6.4	-	0.5	5.2	-
Spain	11.3	21.6	-	3.8	28.1	0.1
Sweden	-	3.1	0.0	1.8	0.5	-
Turkey	2.4	13.0	-	4.3	1.9	0.8
United Kingdom	31.2	23.4	0.7	8.2	46.9	1.9
United States	894.0	11.3	53.0	27.3	835.5	2.2
Other OECD[2]	0.6	6.3	0.6	3.2	1.4	0.0
Non-OECD Europe	**289.7**	**41.4**	**68.0**	**83.8**	**144.0**	**16.5**
Former USSR	289.2	34.5	68.0	80.1	141.3	16.4
Former Yugoslavia	0.1	0.9	0.0	0.1	0.6	-
Other non-OECD Europe	0.4	6.0	-	3.6	2.1	0.0
Asia	**1645.3**	**86.2**	**117.8**	**228.7**	**923.9**	**78.3**
PR of China	1231.2	2.2	55.1	195.5	613.0	71.7
Hong Kong, China	-	6.1	-	-	6.9	-
India	311.4	20.9	1.3	26.3	259.5	5.6
Indonesia	62.8	0.1	57.3	-	-	-
DPR of Korea	22.5	0.1	0.4	0.1	3.8	-
Taipei, Chinese	0.1	40.7	-	5.9	28.7	-
Other Asia	17.2	16.1	3.7	1.0	12.0	1.0
Africa and Middle East	**231.7**	**19.0**	**70.5**	**12.1**	**114.8**	**1.6**
Egypt	0.1	1.8	0.1	1.9	-	-
Israel	-	9.9	-	-	10.2	-
South Africa	224.2	1.1	69.9	6.8	98.1	1.5
Zimbabwe	4.3	0.0	0.0	1.0	2.0	0.0
Other Africa / Middle East	3.2	6.1	0.5	2.3	4.4	0.0
Latin America	**46.9**	**19.7**	**43.3**	**14.8**	**5.0**	**0.1**
Brazil	0.2	13.2	-	12.1	0.1	-
Colombia	38.2	-	35.4	1.2	0.8	0.1
Other Latin America	8.5	6.5	7.9	1.5	4.1	-
Total world	**3601.5**	**608.0**	**612.2**	**531.7**	**2435.0**	**110.5**

Source: *IEA/OECD Energy Statistics of OECD Countries* , *Energy Statistics of Non-OECD Countries*

(1) Fiscal year. See Principles and Definitions.

(2) Iceland, Luxembourg, Norway, Slovak Republic and Switzerland.

Note: Steel industry consumption includes consumption in coke ovens. Power and heat stations column includes hard coal used in electricity and CHP production by public utilities and autoproducers, and in district heating.

WORLD HARD COAL SUPPLY AND END-USE 2005
(million tonnes)

				End-use sectors		
	Production	Imports	Exports	Steel industry	Power and heat plants	Households
Total OECD	**1476.9**	**538.9**	**340.9**	**180.0**	**1243.2**	**11.2**
Australia[1]	300.2	-	231.3	5.4	62.6	0.0
Austria	-	4.3	0.0	1.9	1.9	0.1
Belgium	0.1	8.8	1.2	3.5	3.0	0.2
Canada	29.1	14.1	28.1	4.3	13.2	0.0
Czech Republic	7.1	0.5	3.2	4.4	-	-
Denmark	-	6.0	0.1	-	5.9	-
Finland	-	4.7	-	1.3	2.9	0.0
France	0.6	19.9	0.3	6.4	10.3	0.5
Germany	28.0	37.1	0.3	11.6	47.4	0.2
Greece	-	0.6	0.0	-	-	0.0
Hungary	-	1.4	0.0	0.8	0.2	0.1
Ireland	-	2.9	0.0	-	2.3	0.3
Italy	0.1	24.2	-	5.9	16.0	0.0
Japan[1]	-	177.0	0.0	62.9	92.3	-
Korea	2.8	76.8	-	16.6	52.7	-
Mexico	10.8	7.3	0.0	2.4	14.9	-
Netherlands	-	20.4	7.4	3.2	8.3	0.0
New Zealand	5.0	1.1	2.3	-	2.4	0.0
Poland	97.9	3.4	19.4	11.6	50.9	8.0
Portugal	-	5.3	-	-	5.4	-
Spain	8.5	24.8	-	3.8	27.9	0.3
Sweden	-	3.2	0.0	2.0	0.4	-
Turkey	2.2	17.4	-	4.3	5.2	1.0
United Kingdom	20.5	44.0	0.5	5.6	52.5	0.6
United States	962.4	27.5	45.1	18.7	762.9	-
Other OECD[2]	1.5	6.3	1.7	3.3	1.6	0.0
Non-OECD Europe	**352.2**	**41.2**	**115.1**	**90.3**	**151.5**	**5.4**
Former USSR	352.1	32.3	115.1	85.9	148.0	5.2
Former Yugoslavia	-	1.7	-	0.6	0.9	0.0
Other non-OECD Europe	0.0	7.3	-	3.8	2.6	0.2
Asia	**2776.3**	**163.6**	**222.9**	**431.2**	**1575.4**	**84.6**
PR of China	2158.9	26.2	71.7	382.5	1166.4	77.5
Hong Kong, China	-	10.8	-	-	10.0	-
India	404.5	38.6	2.0	42.0	331.3	5.5
Indonesia	143.6	0.1	127.4	-	-	-
DPR of Korea	26.9	0.2	2.8	0.2	4.0	-
Taipei, Chinese	-	55.5	-	5.9	41.4	-
Other Asia	42.5	32.3	19.0	0.6	22.3	1.5
Africa and Middle East	**252.1**	**23.7**	**72.0**	**12.5**	**130.4**	**4.9**
Egypt	0.0	1.8	0.1	1.8	-	-
Israel	-	12.7	-	-	12.7	-
South Africa	245.0	1.9	71.4	7.6	109.2	4.9
Zimbabwe	3.6	0.1	-	0.8	2.3	0.0
Other Africa / Middle East	3.4	7.3	0.5	2.3	6.2	0.1
Latin America	**67.4**	**21.4**	**60.8**	**15.5**	**6.1**	**0.1**
Brazil	0.5	13.7	-	12.9	0.1	-
Colombia	59.1	0.0	53.6	1.0	1.0	0.1
Other Latin America	7.8	7.7	7.2	1.6	5.0	0.0
Total world	**4924.8**	**788.9**	**811.7**	**729.5**	**3106.5**	**106.3**

Source: *IEA/OECD Energy Statistics of OECD Countries* , *Energy Statistics of Non-OECD Countries*

(1) Fiscal year. See Principles and Definitions.

(2) Iceland, Luxembourg, Norway, Slovak Republic and Switzerland.

Note: Steel industry consumption includes consumption in coke ovens. Power and heat stations column includes hard coal used in electricity and CHP production by public utilities and autoproducers, and in district heating.

WORLD HARD COAL SUPPLY AND END-USE 2006
(million tonnes)

				End-use sectors		
	Production	Imports	Exports	Steel industry	Power and heat plants	Households
Total OECD	**1499.7**	**573.8**	**342.2**	**184.5**	**1272.2**	**12.1**
Australia[1]	299.7	-	231.3	4.7	64.0	0.0
Austria	-	4.1	-	1.9	2.0	0.1
Belgium	0.0	8.1	1.1	3.7	2.6	0.2
Canada	29.9	15.9	28.0	4.3	15.0	0.0
Czech Republic	7.7	1.0	4.4	4.4	-	-
Denmark	-	8.7	0.1	-	8.9	-
Finland	-	6.7	-	1.2	6.3	0.0
France	0.5	20.4	0.1	6.6	8.6	0.5
Germany	23.8	42.1	0.2	12.0	50.0	0.2
Greece	-	0.4	0.0	-	-	0.0
Hungary	-	1.8	0.0	1.3	0.2	0.1
Ireland	-	2.6	0.0	-	2.0	0.3
Italy	0.0	24.6	-	6.4	15.9	0.0
Japan[1]	-	179.1	0.0	63.2	89.5	-
Korea	2.8	79.7	-	16.7	55.1	-
Mexico	11.5	7.6	0.0	2.5	14.7	-
Netherlands	-	22.8	9.9	3.1	8.2	0.0
New Zealand	5.5	1.2	2.7	-	2.3	0.0
Poland	95.2	5.3	16.7	13.3	53.1	9.0
Portugal	-	5.8	0.0	-	5.4	-
Spain	8.4	23.7	-	3.8	24.5	0.3
Sweden	-	3.1	0.0	2.3	0.6	-
Turkey	2.3	20.3	-	4.8	5.5	0.9
United Kingdom	18.5	50.5	0.4	6.1	57.8	0.6
United States	991.5	32.7	44.9	19.0	778.3	-
Other OECD[2]	2.4	5.6	2.3	3.3	1.6	0.0
Non-OECD Europe	**364.0**	**46.5**	**122.3**	**88.6**	**171.6**	**7.5**
Former USSR	364.0	37.9	122.3	84.2	168.1	7.3
Former Yugoslavia	-	1.9	0.0	0.7	0.8	0.0
Other non-OECD Europe	0.0	6.8	-	3.7	2.7	0.2
Asia	**3019.2**	**187.4**	**261.1**	**491.7**	**1771.5**	**82.2**
PR of China	2320.2	38.1	63.2	439.7	1333.3	74.8
Hong Kong, China	-	11.4	-	-	9.9	-
India	428.2	43.1	1.6	45.6	355.4	5.6
Indonesia	195.8	0.1	171.4	-	-	-
DPR of Korea	27.2	0.2	2.5	0.2	4.1	-
Taipei, Chinese	-	57.1	-	5.8	42.9	-
Other Asia	47.8	37.4	22.4	0.5	26.0	1.8
Africa and Middle East	**252.0**	**24.1**	**69.4**	**12.0**	**132.2**	**5.6**
Egypt	0.0	1.8	0.1	1.7	-	-
Israel	-	12.8	-	-	12.7	-
South Africa	244.8	1.9	68.7	7.1	110.7	5.5
Zimbabwe	3.4	0.0	-	0.8	2.2	0.0
Other Africa / Middle East	3.7	7.6	0.5	2.4	6.5	0.0
Latin America	**74.1**	**22.0**	**69.4**	**15.1**	**7.2**	**0.1**
Brazil	0.2	13.4	-	12.5	0.1	-
Colombia	65.6	-	62.0	0.9	1.1	0.1
Other Latin America	8.3	8.6	7.4	1.7	6.0	-
Total world	**5209.0**	**853.7**	**864.3**	**792.0**	**3354.7**	**107.5**

Source: *IEA/OECD Energy Statistics of OECD Countries* , *Energy Statistics of Non-OECD Countries*

(1) Fiscal year. See Principles and Definitions.

(2) Iceland, Luxembourg, Norway, Slovak Republic and Switzerland.

Note: Steel industry consumption includes consumption in coke ovens. Power and heat stations column includes hard coal used in electricity and CHP production by public utilities and autoproducers, and in district heating.

WORLD HARD COAL SUPPLY AND END-USE 2007
(million tonnes)

				End-use sectors		
	Production	Imports	Exports	Steel industry	Power and heat plants	Households
Total OECD	**1510.3**	**591.0**	**364.3**	**184.5**	**1265.4**	**11.9**
Australia[1]	323.8	-	243.6	4.7	63.0	0.0
Austria	-	4.4	0.0	1.9	2.0	0.0
Belgium	-	7.4	1.5	3.5	2.2	0.2
Canada	32.8	17.1	29.7	4.3	15.8	0.0
Czech Republic	7.7	1.1	4.8	4.2	-	-
Denmark	-	8.1	0.2	-	7.5	-
Finland	-	6.7	-	1.2	5.5	0.0
France	0.4	18.7	0.2	6.5	9.3	0.5
Germany	24.2	46.3	0.3	11.7	52.3	0.2
Greece	-	0.6	0.0	-	-	0.0
Hungary	-	2.0	-	1.5	0.3	0.1
Ireland	-	2.3	0.0	-	1.8	0.3
Italy	0.2	25.0	-	6.2	17.0	0.0
Japan[1]	-	187.0	0.0	63.8	94.3	-
Korea	2.9	88.3	-	16.8	60.9	-
Mexico	12.5	5.5	0.0	2.5	14.7	-
Netherlands	-	26.0	11.9	3.1	8.7	0.0
New Zealand	4.6	0.7	2.0	-	1.2	0.0
Poland	88.3	5.9	11.9	14.1	53.0	8.6
Portugal	-	4.8	0.0	0.0	4.4	-
Spain	7.9	24.4	1.0	3.9	27.2	0.3
Sweden	-	3.2	0.0	2.1	0.4	-
Turkey	2.5	22.9	-	4.5	5.9	1.0
United Kingdom	17.0	43.4	0.5	6.1	53.0	0.6
United States	981.7	32.9	53.4	18.7	763.5	-
Other OECD[2]	4.0	6.4	3.4	3.3	1.3	0.0
Non-OECD Europe	**370.6**	**48.6**	**131.3**	**93.9**	**167.2**	**5.8**
Former USSR	370.4	38.8	131.2	89.9	163.1	5.6
Former Yugoslavia	-	2.0	0.0	0.7	0.9	-
Other non-OECD Europe	0.2	7.8	0.1	3.2	3.2	0.3
Asia	**3227.9**	**218.3**	**288.8**	**542.3**	**1926.9**	**79.3**
PR of China	2466.4	51.0	53.1	484.0	1459.4	71.7
Hong Kong, China	-	12.3	-	-	10.6	-
India	454.4	49.8	1.6	51.8	376.8	5.8
Indonesia	230.2	0.1	197.0	-	-	-
DPR of Korea	23.9	0.1	3.7	0.1	3.4	-
Taipei, Chinese	-	59.3	-	5.7	43.8	-
Other Asia	53.0	45.7	33.4	0.6	32.8	1.8
Africa and Middle East	**254.8**	**24.6**	**66.4**	**11.4**	**138.3**	**5.7**
Egypt	0.0	1.7	0.1	1.7	-	-
Israel	-	13.5	-	-	13.4	-
South Africa	247.7	1.7	65.8	6.7	116.4	5.6
Zimbabwe	3.2	0.0	-	0.7	2.1	0.0
Other Africa / Middle East	3.9	7.6	0.5	2.3	6.5	0.0
Latin America	**78.2**	**25.6**	**72.0**	**16.5**	**7.9**	**0.1**
Brazil	0.2	14.9	-	13.8	0.1	-
Colombia	69.9	-	64.6	0.9	1.2	0.1
Other Latin America	8.1	10.8	7.4	1.8	6.6	-
Total world	**5441.9**	**908.1**	**922.9**	**848.5**	**3505.6**	**102.8**

Source: *IEA/OECD Energy Statistics of OECD Countries* , *Energy Statistics of Non-OECD Countries*

(1) Fiscal year. See Principles and Definitions.

(2) Iceland, Luxembourg, Norway, Slovak Republic and Switzerland.

Note: Steel industry consumption includes consumption in coke ovens. Power and heat stations column includes hard coal used in electricity and CHP production by public utilities and autoproducers, and in district heating.

Brazil

COAL BALANCE*

(Mtce)

	1980	1985	1990	1995	2000	2006	2007	Average annual percent change 80-90	90-07
Production	3.6	5.1	2.8	2.9	3.7	3.3	3.4	-2.5	1.2
Imports	5.3	8.6	11.3	13.9	14.7	14.5	16.1	7.9	2.1
Exports	-	-	-	-	-	-0.0	-0.0	-	-
Stock changes	-0.4	0.7	-0.2	0.0	0.1	0.4	-0.1	x	x
Primary supply	**8.5**	**14.4**	**13.8**	**16.9**	**18.5**	**18.3**	**19.4**	**5.0**	**2.0**
Statistical difference	**0.2**	**0.2**	**0.1**	**-0.1**	**0.1**	**-0.1**	**-0.1**	**x**	**x**
Total transformation	**-4.0**	**-6.2**	**-6.7**	**-8.0**	**-9.7**	**-8.3**	**-8.6**	**5.2**	**1.5**
Electricity and heat gen.	-1.3	-2.0	-2.1	-2.5	-4.6	-4.4	-4.3	5.3	4.2
Main activity producers (1)	*-1.0*	*-1.5*	*-1.4*	*-1.9*	*-3.3*	*-3.0*	*-2.8*	*3.6*	*4.0*
Autoproducers	*-0.3*	*-0.5*	*-0.7*	*-0.6*	*-1.3*	*-1.4*	*-1.5*	*10.3*	*4.6*
Gas works	-	-0.0	-	-	-	-	-	-	-
Coal transformation(2)	-2.8	-4.2	-4.6	-5.5	-5.1	-3.9	-4.3	5.2	-0.3
BKB plants	-	-	-	-	-	-	-	-	-
Blast furnaces	*-2.0*	*-3.1*	*-3.2*	*-4.3*	*-4.3*	*-3.3*	*-3.7*	*4.6*	*1.0*
Coke ovens	*-0.7*	*-1.1*	*-1.4*	*-1.2*	*-0.8*	*-0.6*	*-0.6*	*6.6*	*-5.1*
Patent fuel plants	-	-	-	-	-	-	-	-	-
Other transformation(3)	-	-	-	-	-	-	-	-	-
Own use	**-0.4**	**-0.8**	**-0.8**	**-0.9**	**-0.8**	**-0.8**	**-0.9**	**6.1**	**0.8**
Distribution losses	**-0.9**	**-1.5**	**-0.9**	**-1.0**	**-0.5**	**-0.4**	**-0.4**	**x**	**x**
Final consumption(4)	**3.3**	**6.1**	**5.5**	**6.9**	**7.7**	**8.7**	**9.4**	**5.2**	**3.2**
Industry sector(5)	3.1	5.7	5.3	6.8	7.4	8.5	9.1	5.6	3.2
Iron and steel	*2.5*	*3.7*	*3.7*	*5.3*	*6.0*	*6.8*	*7.4*	*4.2*	*4.1*
Chemical	*0.0*	*0.2*	*0.1*	*0.2*	*0.1*	*0.1*	*0.1*	*47.6*	*-0.2*
Non-metallic minerals	*0.4*	*1.4*	*0.9*	*0.6*	*0.3*	*0.2*	*0.2*	*7.2*	*-8.4*
Paper, pulp and print	*0.1*	*0.2*	*0.2*	*0.1*	*0.1*	*0.1*	*0.1*	*8.3*	*-3.7*
Transport sector(6)	0.0	0.0	0.0	-	-	0.0	0.0	-12.3	6.2
Other sectors(7)	-	-	-	-	-	-	-	-	-
Comm. and pub. services	-	-	-	-	-	-	-	-	-
Residential	-	-	-	-	-	-	-	-	-
Non-energy use	0.2	0.3	0.2	0.1	0.2	0.2	0.2	-0.9	1.8

Source: *IEA/OECD Energy Balances of Non-OECD Countries*

(1) Main activity electricity and heat generation includes district heating.

(2) Coal transformation refers to the transformation of coal to secondary and tertiary products (mainly coke, briquettes, coke oven gas and blast furnace gas).

(3) Other transformation includes liquefaction and non-specified transformation.

(4) Final Consumption includes non-energy use and energy use (industry, transport and other sectors).

(5) Please refer to notes in *Principles and Definitions* .

(6) Transport sector includes rail and inland waterways.

(7) Other sectors include commercial and public services, agriculture, and residential.

* "Coal" refers to all types of coal, primary (anthracite, coking coal, other bituminous coal, sub-bituminous coal, lignite/brown coal, peat) and derived fuels (including patent fuel, BKB/peat briquettes, coke oven coke, gas coke, coal tar, coke oven gas, gas works gas, blast furnace gas and oxygen steel furnace gas). Quantities have been converted to Mtce using calorific values reported by the respective countries. Please refer to notes in Principles and Definitions for further information.

Brazil

HARD COAL IMPORTS BY ORIGIN*

(thousand tonnes)

	1978[1]	1980	1985	1990	1995	2000	2006	2007	2008
Hard coal	**3547**	**4515**	**8049**	**10146**	**11790**	**14833**	**13398**	**14800**	**17674**
Coking Coal	**3503**	**4405**	**7958**	**9801**	**11438**	**10695**	**9126**	**10330**	**11312**
Australia	164	-	958	1291	3448	5247	2815	3571	3866
Canada	600	626	899	1108	625	1382	1405	1234	939
Czech Republic	-	-	-	-	-	-	-	-	-
Germany	15	-	-	-	-	-	-	-	-
Poland	-	275	861	1249	790	-	62	-	-
United Kingdom	-	-	-	-	-	-	-	-	-
United States	2724	2876	5240	5219	5498	4066	3500	4888	5437
Other OECD	-	-	-	-	-	-	248	135	97
China, People's Rep.	-	-	-	-	-	-	151	125	664
Colombia	-	328	-	254	85	-	221	133	166
Indonesia	-	-	-	-	-	-	65	-	-
South Africa	-	300	-	670	932	-	551	244	-
Former USSR[2]	-	-	-	-	-	-	-	-	-
Russia [3]	-	-	-	-	-	-	-	-	*19*
Other former USSR [3]	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	1
Vietnam	-	-	-	-	39	-	-	-	-
Non-specified/other	-	-	-	10	21	-	108	-	123
Steam Coal	**44**	**110**	**91**	**345**	**352**	**4138**	**4272**	**4470**	**6362**
Australia	-	-	-	158	-	18	136	1359	29
Canada	-	-	-	98	140	2	-	45	846
Czech Republic	-	-	-	-	-	-	-	-	-
Germany	-	12	13	5	-	-	-	-	-
Poland	-	-	-	-	37	-	-	-	-
United Kingdom	-	-	-	5	-	-	-	-	-
United States	11	98	78	79	13	-	437	214	350
Other OECD	-	-	-	-	-	-	-	169	199
China, People's Rep.	-	-	-	-	-	585	-	139	230
Colombia	-	-	-	-	62	149	666	476	1207
Indonesia	-	-	-	-	-	468	-	145	70
South Africa	-	-	-	-	-	1919	-	752	1530
Former USSR[2]	-	-	-	-	-	-	-	-	-
Russia [3]	-	-	-	-	-	-	*961*	*73*	*570*
Other former USSR [3]	-	-	-	-	-	-	*479*	-	*31*
Venezuela	33	-	-	-	100	997	1236	755	1096
Vietnam	-	-	-	-	-	-	357	343	160
Non-specified/other	-	-	-	-	-	-	-	-	44

Source: IEA/OECD Coal Statistics.

(1) Earliest year for which split by coal type is available.

(2) If no detail.

(3) Data for former Republics are not available separately for some countries.

* In these tables coal used for PCI and for blending has been classified by the IEA as steam coal. Accordingly, trade data reported in these tables may differ from those reported in Part III where this coal is shown as coking coal to be consistent with data reported by importing countries and with industry terminology and practice.

Bulgaria

COAL BALANCE*

(Mtce)

	1980	1985	1990	1995	2000	2006	2007	Average annual percent change 80-90	90-07
Production	7.4	7.5	7.7	7.6	6.2	6.2	6.9	0.4	-0.7
Imports	6.1	7.4	5.5	3.5	3.5	3.5	4.4	-1.0	-1.3
Exports	-	-	-0.1	-0.0	-0.2	-0.0	-0.0	-	-19.8
Stock changes	-0.1	-	0.1	-0.2	-0.2	0.3	-0.0	x	x
Primary supply	**13.4**	**15.0**	**13.2**	**10.9**	**9.2**	**10.0**	**11.2**	**-0.2**	**-1.0**
Statistical difference	**-0.0**	**0.1**	**-0.1**	**-0.1**	**-0.1**	**0.0**	**0.0**	**x**	**x**
Total transformation	**-8.3**	**-8.5**	**-10.6**	**-9.0**	**-7.7**	**-8.7**	**-9.8**	**2.5**	**-0.5**
Electricity and heat gen.	-7.7	-7.8	-10.2	-8.2	-7.1	-8.2	-9.3	2.9	-0.5
Main activity producers (1)	*-7.4*	*-7.6*	*-9.4*	*-7.3*	*-6.8*	*-8.0*	*-9.1*	*2.5*	*-0.2*
Autoproducers	*-0.2*	*-0.3*	*-0.7*	*-0.9*	*-0.2*	*-0.2*	*-0.2*	*11.6*	*-6.5*
Gas works	-	-	-	-	-	-	-	-	-
Coal transformation(2)	-0.6	-0.7	-0.5	-0.8	-0.7	-0.4	-0.5	-3.1	0.5
BKB plants	*0.0*	*-0.1*	*-0.0*	*-0.0*	*-0.0*	*-0.0*	*-0.1*	*-*	*10.1*
Blast furnaces	*-0.5*	*-0.4*	*-0.0*	*-0.5*	*-0.4*	*-0.4*	*-0.3*	*-21.1*	*12.8*
Coke ovens	*-0.2*	*-0.2*	*-0.4*	*-0.3*	*-0.3*	*-0.1*	*-0.1*	*7.1*	*-10.5*
Patent fuel plants	-	-	-	-	-	-	-	-	-
Other transformation(3)	-	-	-	-	-	-	-	-	-
Own use	**-**	**-**	**-0.2**	**-0.2**	**-0.4**	**-0.2**	**-0.2**	**-**	**0.9**
Distribution losses	**-0.0**	**-0.0**	**-0.0**	**-**	**-**	**-**	**-0.0**	**x**	**x**
Final consumption(4)	**5.1**	**6.5**	**2.3**	**1.6**	**1.0**	**1.1**	**1.2**	**-7.6**	**-4.0**
Industry sector(5)	3.6	5.2	1.2	0.9	0.7	0.7	0.8	-10.2	-2.3
Iron and steel	*0.5*	*0.7*	*0.8*	*0.6*	*0.2*	*0.3*	*0.3*	*3.6*	*-5.1*
Chemical	-	-	*0.2*	*0.1*	*0.2*	*0.1*	*0.1*	*-*	*-2.6*
Non-metallic minerals	-	-	*0.1*	*0.1*	*0.1*	*0.1*	*0.2*	*-*	*5.2*
Paper, pulp and print	-	-	-	-	-	-	-	-	-
Transport sector(6)	-	-	-	0.0	-	-	-	-	-
Other sectors(7)	1.5	1.3	1.1	0.7	0.3	0.4	0.3	-3.1	-6.8
Comm. and pub. services	-	-	*0.0*	*0.0*	-	*0.0*	*0.0*	*-*	*-9.0*
Residential	*1.2*	*1.1*	*1.0*	*0.7*	*0.3*	*0.4*	*0.3*	*-2.2*	*-6.7*
Non-energy use	-	-	-	-	-	-	-	-	-

Source: *IEA/OECD Energy Balances of Non-OECD Countries*

(1) Main activity electricity and heat generation includes district heating.

(2) Coal transformation refers to the transformation of coal to secondary and tertiary products (mainly coke, briquettes, coke oven gas and blast furnace gas).

(3) Other transformation includes liquefaction and non-specified transformation.

(4) Final Consumption includes non-energy use and energy use (industry, transport and other sectors).

(5) Please refer to notes in *Principles and Definitions* .

(6) Transport sector includes rail and inland waterways.

(7) Other sectors include commercial and public services, agriculture, and residential.

* "Coal" refers to all types of coal, primary (anthracite, coking coal, other bituminous coal, sub-bituminous coal, lignite/brown coal, peat) and derived fuels (including patent fuel, BKB/peat briquettes, coke oven coke, gas coke, coal tar, coke oven gas, gas works gas, blast furnace gas and oxygen steel furnace gas). Quantities have been converted to Mtce using calorific values reported by the respective countries. Please refer to notes in Principles and Definitions for further information.

Bulgaria

HARD COAL IMPORTS BY ORIGIN*

(thousand tonnes)

	1978[1]	1980	1985	1990	1995	2000	2006	2007	2008
Hard coal	**6201**	**6732**	**8054**	**5790**	**3453**	**1184**	**3902**	**4268**	**4913**
Coking Coal	**1921**	**1926**	**1553**	**1100**	**1734**	**536**	**948**	**667**	**419**
Australia	-	-	-	-	-	-	156	35	-
Canada	-	-	-	-	-	-	87	-	-
Czech Republic	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-
Poland	-	-	-	-	177	140	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-
United States	-	-	29	44	542	298	532	544	318
Other OECD	-	-	-	-	5	-	-	-	28
China, People's Rep.	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-
South Africa	-	-	-	-	100	-	-	-	-
Former USSR[2]	1921	1926	-	-	-	-	-	-	-
Russia [3]	-	-	-	*156*	*110*	*98*	*135*	*34*	*56*
Other former USSR [3]	-	-	-	*900*	*800*	-	*38*	*32*	*13*
Venezuela	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-
Non-specified/other	-	-	-	-	-	-	-	22	4
Steam Coal	**4280**	**4806**	**6501**	**4690**	**1719**	**648**	**2954**	**3601**	**4494**
Australia	-	-	-	-	-	-	-	-	-
Canada	-	-	-	-	-	-	-	-	-
Czech Republic	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-
Poland	-	-	-	-	-	-	35	-	-
United Kingdom	-	-	-	-	5	-	-	-	-
United States	-	-	-	-	-	-	-	-	-
Other OECD	-	-	-	-	4	-	-	88	30
China, People's Rep.	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-
South Africa	-	-	-	-	60	285	34	70	33
Former USSR[2]	4280	4806	-	-	-	-	-	-	-
Russia [3]	-	-	-	-	*1010*	*363*	*1333*	*890*	*1280*
Other former USSR [3]	-	-	-	*4690*	*640*	-	*1446*	*2099*	*2735*
Venezuela	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	106	319	372
Non-specified/other	-	-	-	-	-	-	-	135	44

Source: IEA/OECD Coal Statistics.

(1) Earliest year for which split by coal type is available.

(2) If no detail.

(3) Data for former Republics are not available separately for some countries.

* In these tables coal used for PCI and for blending has been classified by the IEA as steam coal. Accordingly, trade data reported in these tables may differ from those reported in Part III where this coal is shown as coking coal to be consistent with data reported by importing countries and with industry terminology and practice.

People's Republic of China

COAL BALANCE*

(Mtce)

	1980	1985	1990	1995	2000	2006	2007	Average annual percent change 80-90	90-07
Production	443.9	584.4	748.4	965.5	927.7	1763.5	1874.5	5.4	5.5
Imports	1.5	1.7	1.5	1.2	2.1	29.4	39.7	-0.0	21.3
Exports	-6.0	-7.4	-17.3	-35.0	-65.1	-72.9	-64.5	11.1	8.1
Stock changes	7.1	-18.9	22.5	-2.7	29.1	4.3	-13.8	x	x
Primary supply	**446.5**	**559.8**	**755.1**	**929.0**	**893.8**	**1724.3**	**1835.8**	**5.4**	**5.4**
Statistical difference	**-15.6**	**-15.7**	**-36.8**	**43.0**	**9.9**	**18.0**	**43.9**	**x**	**x**
Total transformation	**-115.5**	**-146.8**	**-247.4**	**-415.3**	**-491.2**	**-1115.2**	**-1219.3**	**7.9**	**9.8**
Electricity and heat gen.	-88.7	-122.4	-209.8	-350.4	-450.1	-978.8	-1069.1	9.0	10.1
Main activity producers (1)	*-88.2*	*-121.8*	*-208.6*	*-347.9*	*-445.7*	*-966.7*	*-1058.1*	*9.0*	*10.0*
Autoproducers	*-0.5*	*-0.6*	*-1.2*	*-2.5*	*-4.4*	*-12.2*	*-11.0*	*9.5*	*13.8*
Gas works	-1.1	-0.7	-3.2	-5.5	-5.9	-9.5	-10.6	11.2	7.2
Coal transformation(2)	-25.7	-23.8	-34.3	-59.4	-35.2	-126.8	-139.6	2.9	8.6
BKB plants	-	-	-	-	-	-	-	-	-
Blast furnaces	*-17.0*	*-17.6*	*-26.6*	*-49.6*	*-32.6*	*-100.9*	*-110.9*	*4.6*	*8.8*
Coke ovens	*-8.7*	*-6.2*	*-7.7*	*-9.8*	*-2.4*	*-23.1*	*-25.7*	*-1.2*	*7.4*
Patent fuel plants	-	-	-	*-0.1*	*-0.1*	*-2.9*	*-3.0*	-	-
Other transformation(3)	-	-	-	-	-	-	-	-	-
Own use	**-4.5**	**-8.3**	**-21.3**	**-39.7**	**-44.9**	**-66.6**	**-72.8**	**16.8**	**7.5**
Distribution losses	**-**	**-**	**-**	**-**	**-0.1**	**-**	**-**	**x**	**x**
Final consumption(4)	**310.9**	**388.9**	**449.6**	**517.0**	**367.4**	**560.4**	**587.6**	**3.8**	**1.6**
Industry sector(5)	194.6	223.8	253.0	350.8	260.4	427.2	454.9	2.7	3.5
Iron and steel	*53.8*	*36.1*	*43.4*	*74.2*	*73.1*	*168.6*	*186.1*	*-2.1*	*8.9*
Chemical	*42.1*	*31.1*	*31.7*	*61.3*	*40.9*	*43.7*	*47.9*	*-2.8*	*2.5*
Non-metallic minerals	*32.5*	*59.4*	*70.4*	*95.5*	*74.3*	*121.3*	*123.4*	*8.0*	*3.4*
Paper, pulp and print	*5.5*	*8.5*	*10.0*	*14.0*	*8.9*	*12.2*	*12.3*	*6.2*	*1.2*
Transport sector(6)	13.6	15.8	14.1	9.1	7.8	5.2	4.7	0.4	-6.2
Other sectors(7)	102.7	137.6	155.1	137.5	86.8	94.3	92.0	4.2	-3.0
Comm. and pub. services	*3.2*	*4.9*	*8.6*	*7.9*	*7.2*	*7.5*	*7.3*	*10.3*	*-0.9*
Residential	*80.7*	*106.7*	*116.9*	*100.5*	*60.3*	*63.6*	*61.1*	*3.8*	*-3.7*
Non-energy use	-	11.7	27.4	19.7	12.4	33.8	36.0	-	1.6

Source: *IEA/OECD Energy Balances of Non-OECD Countries*

(1) Main activity electricity and heat generation includes district heating.

(2) Coal transformation refers to the transformation of coal to secondary and tertiary products (mainly coke, briquettes, coke oven gas and blast furnace gas).

(3) Other transformation includes liquefaction and non-specified transformation.

(4) Final Consumption includes non-energy use and energy use (industry, transport and other sectors).

(5) Please refer to notes in *Principles and Definitions* .

(6) Transport sector includes rail and inland waterways.

(7) Other sectors include commercial and public services, agriculture, and residential.

* "Coal" refers to all types of coal, primary (anthracite, coking coal, other bituminous coal, sub-bituminous coal, lignite/brown coal, peat) and derived fuels (including patent fuel, BKB/peat briquettes, coke oven coke, gas coke, coal tar, coke oven gas, gas works gas, blast furnace gas and oxygen steel furnace gas). Quantities have been converted to Mtce using calorific values reported by the respective countries. Please refer to notes in Principles and Definitions for further information.

People's Republic of China

HARD COAL IMPORTS BY ORIGIN*

(thousand tonnes)

	1978[1]	1980	1985	1990	1995	2000	2006	2007	2008
Hard coal	**2440**	**1990**	**2307**	**2003**	**1635**	**2119**	**38103**	**47625**	**45616**
Coking Coal	**-**	**-**	**200**	**900**	**354**	**547**	**4661**	**6215**	**10269**
Australia	-	-	200	600	248	547	1762	2285	1435
Canada	-	-	-	300	-	-	90	221	560
Czech Republic	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-
Poland	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-
United States	-	-	-	-	-	-	-	-	10
Other OECD	-	-	-	-	106	-	70	366	186
China, People's Rep.	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	1387	419	4160
South Africa	-	-	-	-	-	-	-	-	-
Former USSR[2]	-	-	-	-	-	-	-	-	-
Russia [3]	-	-	-	-	-	-	*20*	*60*	*214*
Other former USSR [3]	-	-	-	-	-	-	*4*	*14*	-
Venezuela	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-
Non-specified/other	-	-	-	-	-	-	1328	2850	3704
Steam Coal	**2440**	**1990**	**2107**	**1103**	**1281**	**1572**	**33442**	**41410**	**35347**
Australia	-	-	-	-	1064	1034	4893	2234	2547
Canada	-	-	-	-	-	-	-	-	179
Czech Republic	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-
Poland	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-
United States	-	-	-	-	-	-	-	-	128
Other OECD	-	-	-	-	-	-	-	456	-
China, People's Rep.	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	171	141	3216	10277	11634
South Africa	-	-	-	-	-	325	-	-	-
Former USSR[2]	-	-	-	-	-	-	-	-	-
Russia [3]	-	-	-	-	*46*	*72*	*1056*	*208*	*546*
Other former USSR [3]	-	-	-	-	-	-	*1*	*11*	*20*
Venezuela	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	22146	24611	16906
Non-specified/other	2440	1990	2107	1103	-	-	2130	3613	3387

Source: IEA/OECD Coal Statistics.

(1) Earliest year for which split by coal type is available.

(2) If no detail.

(3) Data for former Republics are not available separately for some countries.

* In these tables coal used for PCI and for blending has been classified by the IEA as steam coal. Accordingly, trade data reported in these tables may differ from those reported in Part III where this coal is shown as coking coal to be consistent with data reported by importing countries and with industry terminology and practice.

People's Republic of China

COKING COAL EXPORTS BY DESTINATION

(thousand tonnes)

	1978[1]	1980	1985	1990	1995	2000	2006	2007	2008
Total Exports	**300**	**1400**	**2500**	**4000**	**4555**	**6470**	**4344**	**3006**	**4652**
Exports to:									
Total OECD	**300**	**979**	**1211**	**1302**	**3312**	**5989**	**4126**	**2656**	**3516**
Austria	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	10
Canada	-	-	-	-	-	-	-	-	-
Czech Republic	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-
France	-	-	-	-	63	-	-	-	-
Germany	-	-	-	-	63	-	-	-	-
Greece	-	-	-	-	-	-	-	-	-
Hungary	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-
Japan	300	979	1211	1301	2201	3631	2256	1456	2178
Korea	-	-	-	-	985	2358	1641	1200	1033
Mexico	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	1	-	-	35	-	191
Norway	-	-	-	-	-	-	-	-	-
Poland	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	155	-	104
Sweden	-	-	-	-	-	-	-	-	-
Turkey	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-
United States	-	-	-	-	-	-	-	-	-
Other OECD[2]	-	-	-	-	-	-	39	-	-
Total Non-OECD	**-**	**421**	**1289**	**2698**	**1243**	**481**	**218**	**350**	**1136**
Brazil	-	-	-	100	57	-	-	74	664
Bulgaria	-	-	-	-	-	-	-	-	-
Chile	-	-	-	-	-	-	-	-	-
China, People's Rep.	-	-	-	-	-	-	-	-	-
Chinese Taipei	-	-	-	-	-	-	-	-	-
Hong Kong, China	-	-	-	-	-	21	-	-	-
India	-	-	-	-	48	360	184	56	216
Israel	-	-	-	-	-	-	-	-	-
Morocco	-	-	-	-	-	-	-	-	-
Romania	-	300	400	400	125	-	-	-	-
Russia	-	-	-	-	2	-	-	-	-
Ukraine	-	-	-	-	-	-	-	-	-
Other Africa	-	-	-	-	-	-	-	-	-
Other Asia	-	121	889	2198	1011	100	34	220	256
Other Eastern Europe	-	-	-	-	-	-	-	-	-
Other FSU	-	-	-	-	-	-	-	-	-
Other Latin America	-	-	-	-	-	-	-	-	-
Other Middle East	-	-	-	-	-	-	-	-	-
Non-Specified/Other	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**

Source: IEA/OECD Coal Statistics.

(1) Earliest year for which split by coal type is available.

(2) Australia, Iceland, Ireland, Luxembourg, New Zealand, Slovak Republic and Switzerland.

People's Republic of China

STEAM COAL EXPORTS BY DESTINATION

(thousand tonnes)

	1978[1]	1980	1985	1990	1995	2000	2006	2007	2008
Total Exports	**2820**	**4920**	**5270**	**13280**	**24062**	**48578**	**58869**	**50677**	**42718**
Exports to:									
Total OECD	**534**	**1703**	**2663**	**6879**	**17482**	**33172**	**36157**	**35455**	**29073**
Austria	-	-	-	-	-	-	-	-	-
Belgium	-	-	112	292	406	109	208	170	134
Canada	-	-	-	-	-	114	-	-	-
Czech Republic	-	-	-	-	-	-	-	-	-
Denmark	-	-	29	57	-	-	-	-	-
Finland	-	-	-	100	-	-	-	-	-
France	-	83	46	1776	956	452	-	187	254
Germany	21	209	9	8	57	-	-	-	-
Greece	-	-	-	-	-	228	-	-	-
Hungary	-	-	-	-	-	-	-	-	-
Italy	-	53	-	310	455	383	-	-	-
Japan	513	1086	2427	3258	7717	12585	16313	14159	11407
Korea	-	200	-	838	7362	18760	17283	18579	16118
Mexico	-	-	-	-	-	2	-	-	-
Netherlands	-	-	1	152	449	146	197	49	11
Norway	-	-	-	4	-	36	-	10	-
Poland	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-
Spain	-	72	-	-	-	199	-	-	-
Sweden	-	-	-	8	-	-	-	-	-
Turkey	-	-	-	-	-	43	2062	2280	1057
United Kingdom	-	-	34	69	80	107	38	-	-
United States	-	-	-	-	-	8	56	21	24
Other OECD[2]	-	-	5	7	-	-	-	-	68
Total Non-OECD	**2286**	**3217**	**2607**	**6401**	**6580**	**15406**	**22702**	**15222**	**13645**
Brazil	-	-	-	-	-	585	129	208	168
Bulgaria	-	-	-	-	29	-	-	-	-
Chile	-	-	-	-	-	-	-	-	-
China, People's Rep.	-	-	-	-	-	-	-	-	-
Chinese Taipei	-	-	-	-	3988	9076	14646	12691	10831
Hong Kong, China	-	-	700	1708	1469	1963	944	673	475
India	-	-	-	-	264	1562	5141	482	790
Israel	-	-	-	-	13	-	1	-	-
Morocco	-	-	-	-	-	36	15	23	128
Romania	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	103	-	8	-	-
Ukraine	-	-	-	-	-	-	-	-	-
Other Africa	-	-	-	-	-	-	-	-	-
Other Asia	2286	2517	1907	4693	714	2182	1810	1142	1252
Other Eastern Europe	-	700	-	-	-	-	-	-	-
Other FSU	-	-	-	-	-	2	-	-	-
Other Latin America	-	-	-	-	-	-	-	-	-
Other Middle East	-	-	-	-	-	-	8	3	1
Non-Specified/Other	**-**	**-**	**-**	**-**	**-**	**-**	**10**	**-**	**-**

Source: IEA/OECD Coal Statistics.

(1) Earliest year for which split by coal type is available.

(2) Australia, Iceland, Ireland, Luxembourg, New Zealand, Slovak Republic and Switzerland.

Chinese Taipei

COAL BALANCE*

(Mtce)

	1980	1985	1990	1995	2000	2006	2007	Average annual percent change 80-90	90-07
Production	2.3	1.6	0.4	0.2	0.1	-	-	-15.6	-
Imports	4.5	9.5	17.5	27.2	41.4	57.1	59.9	14.7	7.5
Exports	-0.0	-0.0	-0.0	-	-0.0	-0.0	-0.0	13.6	-4.7
Stock changes	-1.2	-0.8	-1.6	-2.6	1.2	0.0	-0.2	x	x
Primary supply	**5.6**	**10.3**	**16.3**	**24.8**	**42.7**	**57.1**	**59.7**	**11.3**	**8.0**
Statistical difference	**0.0**	**-0.1**	**-0.2**	**-0.9**	**-1.7**	**-0.6**	**-0.5**	**x**	**x**
Total transformation	**-2.4**	**-6.1**	**-10.1**	**-17.1**	**-32.1**	**-45.2**	**-47.0**	**15.5**	**9.5**
Electricity and heat gen.	-2.2	-5.2	-8.4	-15.5	-29.9	-43.1	-44.5	14.3	10.3
Main activity producers (1)	*-2.2*	*-4.8*	*-7.3*	*-12.6*	*-22.7*	*-32.8*	*-33.6*	*12.6*	*9.4*
Autoproducers	-	*-0.4*	*-1.2*	*-2.9*	*-7.2*	*-10.3*	*-10.9*	-	*14.1*
Gas works	-	-	-	-	-	-	-	-	-
Coal transformation(2)	-0.2	-1.0	-1.7	-1.6	-2.3	-2.0	-2.5	24.8	2.4
BKB plants	-	-	-	-	-	-	-	-	-
Blast furnaces	-	*-0.9*	*-1.4*	*-1.4*	*-2.0*	*-1.9*	*-2.3*	-	*2.9*
Coke ovens	*-0.2*	*-0.1*	*-0.2*	*-0.1*	*-0.2*	*-0.1*	*-0.2*	*2.4*	*-1.4*
Patent fuel plants	-	-	-	-	-	-	-	-	-
Other transformation(3)	-	-	-	-	-	-	-	-	-
Own use	**-0.0**	**-0.3**	**-0.9**	**-1.3**	**-1.9**	**-2.5**	**-2.6**	**39.8**	**6.7**
Distribution losses	**-**	**-0.1**	**-0.0**	**-0.0**	**-0.0**	**-0.1**	**-0.0**	**x**	**x**
Final consumption(4)	**3.1**	**3.6**	**5.1**	**5.6**	**6.9**	**8.7**	**9.7**	**5.0**	**3.8**
Industry sector(5)	3.0	3.5	4.9	5.3	6.7	8.4	9.3	5.0	3.8
Iron and steel	*1.2*	*0.7*	*1.0*	*1.1*	*1.8*	*1.9*	*1.9*	*-1.8*	*3.7*
Chemical	*0.2*	*0.4*	*1.0*	*1.4*	*2.6*	*3.8*	*4.8*	*16.1*	*9.8*
Non-metallic minerals	*1.2*	*2.2*	*2.5*	*2.4*	*2.0*	*2.3*	*2.1*	*7.4*	*-1.1*
Paper, pulp and print	*0.1*	*0.1*	*0.3*	*0.4*	*0.3*	*0.4*	*0.3*	*11.3*	*1.5*
Transport sector(6)	0.0	-	-	-	-	-	-	-	-
Other sectors(7)	0.1	0.1	0.0	-	0.0	-	-	-23.3	-
Comm. and pub. services	-	*0.0*	-	-	-	-	-	-	-
Residential	*0.0*	-	-	-	-	-	-	-	-
Non-energy use	0.0	-	0.2	0.3	0.2	0.3	0.4	28.4	4.4

Source: *IEA/OECD Energy Balances of Non-OECD Countries*

(1) Main activity electricity and heat generation includes district heating.

(2) Coal transformation refers to the transformation of coal to secondary and tertiary products (mainly coke, briquettes, coke oven gas and blast furnace gas).

(3) Other transformation includes liquefaction and non-specified transformation.

(4) Final Consumption includes non-energy use and energy use (industry, transport and other sectors).

(5) Please refer to notes in *Principles and Definitions* .

(6) Transport sector includes rail and inland waterways.

(7) Other sectors include commercial and public services, agriculture, and residential.

* "Coal" refers to all types of coal, primary (anthracite, coking coal, other bituminous coal, sub-bituminous coal, lignite/brown coal, peat) and derived fuels (including patent fuel, BKB/peat briquettes, coke oven coke, gas coke, coal tar, coke oven gas, gas works gas, blast furnace gas and oxygen steel furnace gas). Quantities have been converted to Mtce using calorific values reported by the respective countries. Please refer to notes in Principles and Definitions for further information.

Chinese Taipei

HARD COAL IMPORTS BY ORIGIN*

(thousand tonnes)

	1978[1]	1980	1985	1990	1995	2000	2006	2007	2008
Hard coal	**1386**	**4637**	**10092**	**18468**	**28681**	**45503**	**62279**	**68921**	**66133**
Coking Coal	**1386**	**1513**	**2562**	**4237**	**4580**	**6093**	**5049**	**7585**	**5884**
Australia	918	900	1837	2749	3451	3524	3991	6302	4955
Canada	263	250	475	1050	693	1232	438	-	856
Czech Republic	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-
Poland	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-
United States	205	163	250	438	336	-	-	-	71
Other OECD	-	-	-	-	-	-	-	-	-
China, People's Rep.	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	554	1283	-
South Africa	-	200	-	-	-	-	-	-	-
Former USSR[2]	-	-	-	-	-	-	-	-	-
Russia [3]	-	-	-	-	*100*	*1337*	*66*	-	*2*
Other former USSR [3]	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-
Non-specified/other	-	-	-	-	-	-	-	-	-
Steam Coal	**-**	**3124**	**7530**	**14231**	**24101**	**39410**	**57230**	**61336**	**60249**
Australia	-	-	3400	3800	6321	12474	18346	21019	21110
Canada	-	-	-	-	-	-	427	1126	563
Czech Republic	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-
Poland	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-
United States	-	1512	2800	3677	2442	514	-	-	-
Other OECD	-	-	-	-	-	1290	158	141	43
China, People's Rep.	-	-	-	529	3893	8371	12677	13271	11293
Colombia	-	-	-	-	-	-	-	-	-
Indonesia	-	-	100	625	6203	13740	24174	23721	25949
South Africa	-	1612	1230	5600	5073	2873	67	566	-
Former USSR[2]	-	-	-	-	-	-	-	-	-
Russia [3]	-	-	-	-	*106*	-	*1298*	*1330*	*1163*
Other former USSR [3]	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	63	78	50	48	38
Non-specified/other	-	-	-	-	-	70	33	114	90

Source: IEA/OECD Coal Statistics.

(1) Earliest year for which split by coal type is available.

(2) If no detail.

(3) Data for former Republics are not available separately for some countries.

* In these tables coal used for PCI and for blending has been classified by the IEA as steam coal. Accordingly, trade data reported in these tables may differ from those reported in Part III where this coal is shown as coking coal to be consistent with data reported by importing countries and with industry terminology and practice.

Colombia

COAL BALANCE*

(Mtce)

	1980	1985	1990	1995	2000	2006	2007	Average annual percent change 80-90	90-07
Production	3.9	8.1	19.8	23.8	35.5	60.9	64.9	17.8	7.2
Imports	-	-	-	-	-	-	-	-	-
Exports	-0.1	-3.0	-12.6	-17.1	-33.0	-57.6	-60.0	57.9	9.6
Stock changes	0.1	-0.9	-2.8	-1.6	1.3	0.2	-1.5	x	x
Primary supply	**3.8**	**4.3**	**4.4**	**5.1**	**3.8**	**3.5**	**3.4**	**1.5**	**-1.5**
Statistical difference	**-0.3**	**-0.2**	**0.3**	**0.1**	**0.8**	**0.2**	**0.5**	**x**	**x**
Total transformation	**-1.5**	**-2.0**	**-2.3**	**-2.4**	**-1.2**	**-1.5**	**-1.6**	**4.6**	**-2.2**
Electricity and heat gen.	-0.7	-1.1	-1.5	-1.7	-0.8	-1.1	-1.2	8.2	-1.4
Main activity producers (1)	*-0.4*	*-0.8*	*-1.0*	*-1.2*	*-0.7*	*-1.0*	*-1.0*	*9.5*	*0.0*
Autoproducers	*-0.3*	*-0.3*	*-0.5*	*-0.5*	*-0.1*	*-0.1*	*-0.2*	*6.2*	*-5.5*
Gas works	-	-	-	-	-	-	-	-	-
Coal transformation(2)	-0.8	-0.9	-0.8	-0.7	-0.4	-0.4	-0.4	0.5	-3.9
BKB plants	-	-	-	-	-	-	-	-	-
Blast furnaces	*-0.6*	*-0.6*	*-0.6*	*-0.6*	*-0.3*	*-0.3*	*-0.3*	*1.1*	*-3.5*
Coke ovens	*-0.3*	*-0.3*	*-0.2*	*-0.1*	*-0.1*	*-0.1*	*-0.1*	*-0.8*	*-5.0*
Patent fuel plants	-	-	-	-	-	-	-	-	-
Other transformation(3)	-	-	-	-	-	-	-	-	-
Own use	**-0.1**	**-0.0**	**-0.1**	**-0.1**	**-0.0**	**-0.0**	**-0.0**	**0.7**	**-1.2**
Distribution losses	**-0.1**	**-0.1**	**-0.1**	**-0.1**	**-0.1**	**-0.1**	**-0.1**	**x**	**x**
Final consumption(4)	**1.9**	**2.0**	**2.3**	**2.7**	**3.2**	**2.1**	**2.2**	**1.7**	**-0.3**
Industry sector(5)	1.7	1.8	2.1	2.5	3.1	2.0	2.1	2.2	-0.0
Iron and steel	*0.1*	*0.1*	*0.1*	*0.5*	*0.6*	*0.4*	*0.5*	*-1.3*	*8.2*
Chemical	*0.1*	*0.1*	*0.1*	*0.1*	*0.2*	*0.1*	*0.1*	*-1.9*	*1.7*
Non-metallic minerals	*0.9*	*0.9*	*1.2*	*0.9*	*1.2*	*0.7*	*0.8*	*2.9*	*-2.5*
Paper, pulp and print	*0.2*	*0.3*	*0.3*	*0.4*	*0.5*	*0.3*	*0.3*	*2.8*	*1.3*
Transport sector(6)	0.0	0.0	0.0	0.0	0.0	-	-	-11.8	-
Other sectors(7)	0.2	0.2	0.2	0.2	0.1	0.1	0.1	-2.6	-3.9
Comm. and pub. services	-	-	-	-	-	-	-	-	-
Residential	*0.2*	*0.2*	*0.2*	*0.2*	*0.1*	*0.1*	*0.1*	*-2.6*	*-3.9*
Non-energy use	-	-	-	-	-	-	-	-	-

Source: *IEA/OECD Energy Balances of Non-OECD Countries*

(1) Main activity electricity and heat generation includes district heating.

(2) Coal transformation refers to the transformation of coal to secondary and tertiary products (mainly coke, briquettes, coke oven gas and blast furnace gas).

(3) Other transformation includes liquefaction and non-specified transformation.

(4) Final Consumption includes non-energy use and energy use (industry, transport and other sectors).

(5) Please refer to notes in *Principles and Definitions* .

(6) Transport sector includes rail and inland waterways.

(7) Other sectors include commercial and public services, agriculture, and residential.

* "Coal" refers to all types of coal, primary (anthracite, coking coal, other bituminous coal, sub-bituminous coal, lignite/brown coal, peat) and derived fuels (including patent fuel, BKB/peat briquettes, coke oven coke, gas coke, coal tar, coke oven gas, gas works gas, blast furnace gas and oxygen steel furnace gas). Quantities have been converted to Mtce using calorific values reported by the respective countries. Please refer to notes in Principles and Definitions for further information.

Colombia

COKING COAL EXPORTS BY DESTINATION

(thousand tonnes)

	1978[1]	1980	1985	1990	1995	2000	2006	2007	2008
Total Exports	**100**	**90**	**93**	**128**	**1062**	**159**	**443**	**373**	**318**
Exports to:									
Total OECD	**-**	**-**	**50**	**82**	**657**	**8**	**222**	**240**	**77**
Austria	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-
Canada	-	-	-	-	420	-	7	86	-
Czech Republic	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-
France	-	-	1	-	30	-	29	-	-
Germany	-	-	-	-	1	-	176	114	-
Greece	-	-	-	-	-	-	-	-	-
Hungary	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-
Japan	-	-	-	76	158	-	9	-	-
Korea	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	8	-	-	-
Netherlands	-	-	-	6	10	-	-	-	-
Norway	-	-	49	-	-	-	-	-	-
Poland	-	-	-	-	-	-	-	40	77
Portugal	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	1	-	-
Sweden	-	-	-	-	-	-	-	-	-
Turkey	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	38	-	-	-	-
United States	-	-	-	-	-	-	-	-	-
Other OECD[2]	-	-	-	-	-	-	-	-	-
Total Non-OECD	**100**	**90**	**43**	**46**	**405**	**151**	**221**	**133**	**241**
Brazil	-	-	-	-	405	-	221	133	166
Bulgaria	-	-	-	-	-	-	-	-	-
Chile	-	-	-	-	-	-	-	-	-
China, People's Rep.	-	-	-	-	-	-	-	-	-
Chinese Taipei	-	-	-	-	-	-	-	-	-
Hong Kong, China	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-
Israel	-	-	-	-	-	-	-	-	-
Morocco	-	-	-	-	-	-	-	-	-
Romania	-	-	-	-	-	-	-	-	75
Russia	-	-	-	-	-	-	-	-	-
Ukraine	-	-	-	-	-	-	-	-	-
Other Africa	-	-	-	-	-	-	-	-	-
Other Asia	-	-	-	-	-	-	-	-	-
Other Eastern Europe	-	-	-	-	-	-	-	-	-
Other FSU	-	-	-	-	-	-	-	-	-
Other Latin America	100	90	43	46	-	151	-	-	-
Other Middle East	-	-	-	-	-	-	-	-	-
Non-Specified/Other	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**

Source: IEA/OECD Coal Statistics.

(1) Earliest year for which split by coal type is available.

(2) Australia, Iceland, Ireland, Luxembourg, New Zealand, Slovak Republic and Switzerland.

Colombia

STEAM COAL EXPORTS BY DESTINATION

(thousand tonnes)

	1978[1]	1980	1985	1990	1995	2000	2006	2007	2008
Total Exports	**50**	**5**	**3073**	**13377**	**17212**	**33565**	**61967**	**67154**	**73564**
Exports to:									
Total OECD	**-**	**-**	**1487**	**12075**	**14306**	**30706**	**54445**	**57529**	**57606**
Austria	-	-	-	-	-	-	-	-	-
Belgium	-	-	51	170	269	153	-	-	152
Canada	-	-	-	-	213	1590	2120	1543	2871
Czech Republic	-	-	-	-	-	-	-	-	-
Denmark	-	-	332	2077	1116	819	2178	2402	1854
Finland	-	-	347	334	203	-	172	-	64
France	-	-	2	2033	1228	2832	3644	2894	2031
Germany	-	-	19	351	995	899	4361	1084	4667
Greece	-	-	-	-	-	-	77	158	-
Hungary	-	-	-	-	-	-	-	-	-
Italy	-	-	180	290	148	1694	2172	2007	2713
Japan	-	-	-	35	27	-	-	30	31
Korea	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	32	30	865
Netherlands	-	-	150	1634	2450	6822	4789	10754	5676
Norway	-	-	-	-	155	-	-	-	-
Poland	-	-	-	-	-	-	-	-	269
Portugal	-	-	-	390	727	2544	3185	2755	1774
Spain	-	-	134	404	665	908	1637	2361	2551
Sweden	-	-	183	108	-	83	-	-	-
Turkey	-	-	-	-	-	-	2881	2917	2133
United Kingdom	-	-	89	2136	2648	4950	2739	3192	5248
United States	-	-	-	1305	2483	6412	23226	24897	24205
Other OECD[2]	-	-	-	808	979	1000	1232	505	502
Total Non-OECD	**50**	**5**	**410**	**1250**	**2906**	**2737**	**7522**	**9625**	**15958**
Brazil	-	-	-	-	69	149	292	223	1212
Bulgaria	-	-	-	-	-	-	-	-	-
Chile	-	-	-	-	200	526	653	2497	3441
China, People's Rep.	-	-	-	-	-	-	-	-	-
Chinese Taipei	-	-	-	-	-	-	-	-	-
Hong Kong, China	-	-	100	600	344	-	-	-	-
India	-	-	-	-	-	-	-	-	-
Israel	-	-	100	548	886	773	3676	3751	3410
Morocco	-	-	-	29	51	-	131	737	2130
Romania	-	-	-	-	-	69	-	-	104
Russia	-	-	-	-	-	-	32	-	-
Ukraine	-	-	-	-	-	-	-	-	-
Other Africa	-	-	-	-	-	-	-	-	-
Other Asia	-	-	-	-	-	-	-	-	1500
Other Eastern Europe	-	-	-	-	-	425	389	400	773
Other FSU	-	-	-	-	-	-	-	-	-
Other Latin America	50	5	210	73	1356	795	2349	2017	3388
Other Middle East	-	-	-	-	-	-	-	-	-
Non-Specified/Other	**-**	**-**	**1176**	**52**	**-**	**122**	**-**	**-**	**-**

Source: IEA/OECD Coal Statistics.

(1) Earliest year for which split by coal type is available.

(2) Australia, Iceland, Ireland, Luxembourg, New Zealand, Slovak Republic and Switzerland.

Hong Kong (China)

COAL BALANCE*

(Mtce)

	1980	1985	1990	1995	2000	2006	2007	Average annual percent change 80-90	90-07
Production	-	-	-	-	-	-	-	-	-
Imports	0.0	4.9	7.9	8.0	5.3	10.0	10.8	98.2	1.9
Exports	-	-	-	-	-	-	-	-	-
Stock changes	-	-	-	-	-	-	-	x	x
Primary supply	**0.0**	**4.9**	**7.9**	**8.0**	**5.3**	**10.0**	**10.8**	**98.2**	**1.9**
Statistical difference	**-**	**-0.3**	**0.8**	**0.5**	**0.7**	**-**	**-**	**x**	**x**
Total transformation	**-0.0**	**-4.5**	**-8.7**	**-8.6**	**-6.1**	**-8.7**	**-9.3**	**122.2**	**0.4**
Electricity and heat gen.	-	-4.5	-8.7	-8.6	-6.1	-8.7	-9.3	-	0.4
Main activity producers (1)	-	*-4.5*	*-8.7*	*-8.6*	*-6.1*	*-8.7*	*-9.3*	-	*0.4*
Autoproducers	-	-	-	-	-	-	-	-	-
Gas works	-	-	-	-	-	-	-	-	-
Coal transformation(2)	-0.0	-0.0	-0.0	-0.0	-	-	-	-8.9	-
BKB plants	-	-	-	-	-	-	-	-	-
Blast furnaces	*-0.0*	*-0.0*	*-0.0*	*-0.0*	-	-	-	*-8.9*	-
Coke ovens	-	-	-	-	-	-	-	-	-
Patent fuel plants	-	-	-	-	-	-	-	-	-
Other transformation(3)	-	-	-	-	-	-	-	-	-
Own use	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
Distribution losses	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**x**	**x**
Final consumption(4)	**0.0**	**0.0**	**0.0**	**0.0**	**-**	**1.4**	**1.4**	**-18.0**	**56.0**
Industry sector(5)	0.0	0.0	0.0	0.0	-	1.4	1.4	-18.0	56.0
Iron and steel	*0.0*	*0.0*	*0.0*	*0.0*	-	-	-	*-12.4*	-
Chemical	-	-	-	-	-	-	-	-	-
Non-metallic minerals	-	-	-	-	-	-	-	-	-
Paper, pulp and print	-	-	-	-	-	-	-	-	-
Transport sector(6)	-	-	-	-	-	-	-	-	-
Other sectors(7)	-	-	-	-	-	-	-	-	-
Comm. and pub. services	-	-	-	-	-	-	-	-	-
Residential	-	-	-	-	-	-	-	-	-
Non-energy use	-	-	-	-	-	-	-	-	-

Source: *IEA/OECD Energy Balances of Non-OECD Countries*

(1) Main activity electricity and heat generation includes district heating.

(2) Coal transformation refers to the transformation of coal to secondary and tertiary products (mainly coke, briquettes, coke oven gas and blast furnace gas).

(3) Other transformation includes liquefaction and non-specified transformation.

(4) Final Consumption includes non-energy use and energy use (industry, transport and other sectors).

(5) Please refer to notes in *Principles and Definitions* .

(6) Transport sector includes rail and inland waterways.

(7) Other sectors include commercial and public services, agriculture, and residential.

* "Coal" refers to all types of coal, primary (anthracite, coking coal, other bituminous coal, sub-bituminous coal, lignite/brown coal, peat) and derived fuels (including patent fuel, BKB/peat briquettes, coke oven coke, gas coke, coal tar, coke oven gas, gas works gas, blast furnace gas and oxygen steel furnace gas). Quantities have been converted to Mtce using calorific values reported by the respective countries. Please refer to notes in Principles and Definitions for further information.

Hong Kong (China)

HARD COAL IMPORTS BY ORIGIN*

(thousand tonnes)

	1978[1]	1980	1985	1990	1995	2000	2006	2007	2008
Hard coal	**8**	**3**	**5523**	**8928**	**9109**	**6058**	**11402**	**12174**	**13499**
Coking Coal	**-**	**-**	**-**	**-**	**-**	**43**	**-**	**-**	**-**
Australia	-	-	-	-	-	-	-	-	-
Canada	-	-	-	-	-	-	-	-	-
Czech Republic	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-
Poland	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-
United States	-	-	-	-	-	-	-	-	-
Other OECD	-	-	-	-	-	-	-	-	-
China, People's Rep.	-	-	-	-	-	43	-	-	-
Colombia	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-
South Africa	-	-	-	-	-	-	-	-	-
Former USSR[2]	-	-	-	-	-	-	-	-	-
Russia [3]	-	-	-	-	-	-	-	-	-
Other former USSR [3]	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-
Non-specified/other	-	-	-	-	-	-	-	-	-
Steam Coal	**8**	**3**	**5523**	**8928**	**9109**	**6015**	**11402**	**12174**	**13499**
Australia	-	-	1986	3003	2568	276	239	36	147
Canada	-	-	584	-	-	-	-	-	-
Czech Republic	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-
Poland	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-
United States	-	-	-	108	-	-	-	-	-
Other OECD	-	-	-	-	-	-	-	-	-
China, People's Rep.	8	3	709	1708	1233	2265	818	876	475
Colombia	-	-	-	234	344	-	-	-	-
Indonesia	-	-	-	659	2192	2846	10219	11180	12877
South Africa	-	-	2244	3216	2770	567	-	-	-
Former USSR[2]	-	-	-	-	-	-	-	-	-
Russia [3]	-	-	-	-	*2*	*61*	*126*	-	-
Other former USSR [3]	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-
Non-specified/other	-	-	-	-	-	-	-	82	-

Source: IEA/OECD Coal Statistics.

(1) Earliest year for which split by coal type is available.

(2) If no detail.

(3) Data for former Republics are not available separately for some countries.

* In these tables coal used for PCI and for blending has been classified by the IEA as steam coal. Accordingly, trade data reported in these tables may differ from those reported in Part III where this coal is shown as coking coal to be consistent with data reported by importing countries and with industry terminology and practice.

India

COAL BALANCE*

(Mtce)

	1980	1985	1990	1995	2000	2006	2007	Average annual percent change 80-90	90-07
Production	76.6	105.2	149.6	186.9	208.9	282.7	300.3	6.9	4.2
Imports	0.5	2.0	6.0	12.5	21.1	43.2	48.9	27.4	13.2
Exports	-0.1	-0.1	-0.1	-0.5	-1.0	-1.1	-1.1	-0.9	18.2
Stock changes	-2.5	1.4	-3.9	-0.7	5.8	-6.6	-1.6	x	x
Primary supply	**74.5**	**108.4**	**151.5**	**198.2**	**234.9**	**318.2**	**346.4**	**7.4**	**5.0**
Statistical difference	**2.2**	**2.3**	**2.1**	**2.2**	**2.1**	**0.0**	**-5.9**	**x**	**x**
Total transformation	**-36.5**	**-58.5**	**-91.5**	**-143.1**	**-187.5**	**-253.2**	**-272.0**	**9.6**	**6.6**
Electricity and heat gen.	-30.2	-51.3	-83.2	-132.1	-176.0	-238.1	-253.5	10.7	6.8
Main activity producers (1)	*-25.0*	*-44.6*	*-74.8*	*-121.2*	*-161.2*	*-215.7*	*-229.2*	*11.6*	*6.8*
Autoproducers	*-5.2*	*-6.7*	*-8.5*	*-10.9*	*-14.9*	*-22.4*	*-24.3*	*5.0*	*6.4*
Gas works	-	-	-	-	-0.1	-0.0	-0.0	-	-
Coal transformation(2)	-6.3	-7.2	-8.3	-11.0	-11.4	-15.1	-18.5	2.7	4.8
BKB plants	*-0.1*	*-0.2*	*-0.3*	*-0.3*	*-0.2*	*-0.2*	*-0.2*	*7.9*	*-0.7*
Blast furnaces	*-5.1*	*-5.1*	*-5.2*	*-5.7*	*-8.3*	*-8.1*	*-8.0*	*0.1*	*2.6*
Coke ovens	*-1.1*	*-1.8*	*-2.8*	*-5.0*	*-2.8*	*-6.7*	*-10.2*	*10.1*	*7.9*
Patent fuel plants	-	-	-	-	-	-	-	-	-
Other transformation(3)	-	-	-	-	-	-	-	-	-
Own use	**-0.9**	**-1.3**	**-2.4**	**-2.4**	**-1.7**	**-1.6**	**-1.8**	**10.1**	**-1.8**
Distribution losses	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**x**	**x**
Final consumption(4)	**39.3**	**50.9**	**59.7**	**54.8**	**47.8**	**63.4**	**66.7**	**4.3**	**0.7**
Industry sector(5)	21.1	31.5	41.0	38.6	35.9	49.3	52.0	6.9	1.4
Iron and steel	*8.5*	*9.2*	*12.5*	*15.5*	*13.7*	*24.7*	*26.0*	*3.9*	*4.4*
Chemical	*1.9*	*2.7*	*3.9*	*4.7*	*3.5*	*2.6*	*2.5*	*7.4*	*-2.5*
Non-metallic minerals	*5.1*	*6.2*	*9.5*	*9.9*	*12.7*	*13.3*	*14.3*	*6.3*	*2.5*
Paper, pulp and print	*1.4*	*1.8*	*2.0*	*2.3*	*1.8*	*1.9*	*2.0*	*3.6*	*-0.1*
Transport sector(6)	7.8	6.4	3.5	0.2	-	-	-	-7.8	-
Other sectors(7)	10.4	13.0	15.2	16.1	11.9	14.1	14.7	3.9	-0.2
Comm. and pub. services	*4.4*	*5.0*	*5.3*	*5.6*	*4.1*	*4.4*	*4.6*	*1.7*	*-0.8*
Residential	*3.2*	*3.6*	*4.3*	*4.2*	*4.0*	*3.9*	*4.0*	*3.0*	*-0.4*
Non-energy use	-	-	-	-	-	-	-	-	-

Source: *IEA/OECD Energy Balances of Non-OECD Countries*

(1) Main activity electricity and heat generation includes district heating.

(2) Coal transformation refers to the transformation of coal to secondary and tertiary products (mainly coke, briquettes, coke oven gas and blast furnace gas).

(3) Other transformation includes liquefaction and non-specified transformation.

(4) Final Consumption includes non-energy use and energy use (industry, transport and other sectors).

(5) Please refer to notes in *Principles and Definitions* .

(6) Transport sector includes rail and inland waterways.

(7) Other sectors include commercial and public services, agriculture, and residential.

* "Coal" refers to all types of coal, primary (anthracite, coking coal, other bituminous coal, sub-bituminous coal, lignite/brown coal, peat) and derived fuels (including patent fuel, BKB/peat briquettes, coke oven coke, gas coke, coal tar, coke oven gas, gas works gas, blast furnace gas and oxygen steel furnace gas). Quantities have been converted to Mtce using calorific values reported by the respective countries. Please refer to notes in Principles and Definitions for further information.

India

HARD COAL IMPORTS BY ORIGIN*

(thousand tonnes)

	1978[1]	1980	1985	1990	1995	2000	2006	2007	2008
Hard coal	**220**	**550**	**2030**	**5100**	**12510**	**16565**	**43078**	**54053**	**59787**
Coking Coal	**220**	**550**	**1936**	**5000**	**9370**	**8372**	**17876**	**23374**	**28841**
Australia	20	287	1936	4665	8283	7824	15046	20067	24902
Canada	200	263	-	-	-	-	-	-	-
Czech Republic	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-
Poland	-	-	-	284	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	58	-
United States	-	-	-	-	-	11	641	717	1236
Other OECD	-	-	-	51	187	63	618	751	208
China, People's Rep.	-	-	-	-	-	474	718	221	270
Colombia	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	473	403	1790
South Africa	-	-	-	-	-	-	230	680	347
Former USSR[2]	-	-	-	-	-	-	-	-	-
Russia[3]	-	-	-	-	-	-	-	-	*26*
Other former USSR[3]	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-
Non-specified/other	-	-	-	-	900	-	150	477	62
Steam Coal	**-**	**-**	**94**	**100**	**3140**	**8193**	**25202**	**30679**	**30946**
Australia	-	-	94	100	-	2748	505	1039	1527
Canada	-	-	-	-	-	-	-	-	-
Czech Republic	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-
Poland	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	1
United States	-	-	-	-	-	-	-	-	72
Other OECD	-	-	-	-	1	-	-	29	-
China, People's Rep.	-	-	-	-	399	1610	3689	685	598
Colombia	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	2256	18462	22717	20674
South Africa	-	-	-	-	-	1507	2536	5598	7766
Former USSR[2]	-	-	-	-	-	-	-	-	-
Russia[3]	-	-	-	-	-	*72*	-	-	-
Other former USSR[3]	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	10	-	-
Non-specified/other	-	-	-	-	2740	-	-	611	308

Source: IEA/OECD Coal Statistics.

(1) Earliest year for which split by coal type is available.

(2) If no detail.

(3) Data for former Republics are not available separately for some countries.

* In these tables coal used for PCI and for blending has been classified by the IEA as steam coal. Accordingly, trade data reported in these tables may differ from those reported in Part III where this coal is shown as coking coal to be consistent with data reported by importing countries and with industry terminology and practice.

Indonesia

COAL BALANCE*

(Mtce)

	1980	1985	1990	1995	2000	2006	2007	Average annual percent change 80-90	90-07
Production	0.3	1.7	8.8	35.6	66.0	196.4	229.5	41.8	21.2
Imports	0.0	0.0	0.6	0.6	0.1	0.1	0.1	32.6	-12.3
Exports	-0.1	-1.0	-4.3	-27.8	-50.8	-154.1	-177.5	45.9	24.4
Stock changes	0.0	-	-	-0.1	-	-0.7	0.5	x	x
Primary supply	**0.2**	**0.8**	**5.1**	**8.4**	**15.3**	**41.7**	**52.5**	**35.7**	**14.7**
Statistical difference	**0.0**	**-0.3**	**-0.8**	**-2.0**	**2.7**	**-**	**-**	**x**	**x**
Total transformation	**-0.0**	**-0.1**	**-3.3**	**-4.2**	**-10.3**	**-20.8**	**-22.7**	**71.3**	**11.9**
Electricity and heat gen.	-	-0.1	-3.3	-4.2	-10.3	-20.8	-22.7	-	12.0
Main activity producers (1)	-	*-0.1*	*-3.3*	*-4.2*	*-10.3*	*-20.8*	*-22.7*	-	*12.0*
Autoproducers	-	-	-	-	-	-	-	-	-
Gas works	-	-	-	-	-	-	-	-	-
Coal transformation(2)	-0.0	-0.0	-0.0	-0.0	-0.0	0.0	0.0	3.9	-
BKB plants	-	-	-	-	-	-	-	-	-
Blast furnaces	*-0.0*	*-0.0*	*-0.0*	-	-	-	-	*3.9*	-
Coke ovens	-	-	-	-	-	-	-	-	-
Patent fuel plants	-	-	-	*-0.0*	*-0.0*	*0.0*	*0.0*	-	-
Other transformation(3)	-	-	-	-	-	-	-	-	-
Own use	**-0.1**	**-0.1**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
Distribution losses	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**x**	**x**
Final consumption(4)	**0.2**	**0.4**	**0.9**	**2.2**	**7.6**	**20.9**	**29.9**	**15.7**	**22.8**
Industry sector(5)	0.2	0.3	0.9	2.2	7.6	20.9	29.9	16.9	22.8
Iron and steel	*0.0*	*0.0*	*0.0*	-	-	-	-	*3.3*	-
Chemical	*0.1*	-	-	-	-	-	-	-	-
Non-metallic minerals	*0.1*	*0.3*	*0.8*	*1.6*	*2.0*	*4.7*	*5.7*	*26.3*	*11.9*
Paper, pulp and print	-	-	-	*0.5*	*0.7*	*1.4*	*2.1*	-	-
Transport sector(6)	0.0	0.0	-	-	-	-	-	-	-
Other sectors(7)	-	0.0	-	0.0	0.0	0.0	0.0	-	-
Comm. and pub. services	-	-	-	-	-	-	-	-	-
Residential	-	-	-	*0.0*	*0.0*	*0.0*	*0.0*	-	-
Non-energy use	-	-	-	-	-	-	-	-	-

Source: *IEA/OECD Energy Balances of Non-OECD Countries*

(1) Main activity electricity and heat generation includes district heating.

(2) Coal transformation refers to the transformation of coal to secondary and tertiary products (mainly coke, briquettes, coke oven gas and blast furnace gas).

(3) Other transformation includes liquefaction and non-specified transformation.

(4) Final Consumption includes non-energy use and energy use (industry, transport and other sectors).

(5) Please refer to notes in *Principles and Definitions* .

(6) Transport sector includes rail and inland waterways.

(7) Other sectors include commercial and public services, agriculture, and residential.

* "Coal" refers to all types of coal, primary (anthracite, coking coal, other bituminous coal, sub-bituminous coal, lignite/brown coal, peat) and derived fuels (including patent fuel, BKB/peat briquettes, coke oven coke, gas coke, coal tar, coke oven gas, gas works gas, blast furnace gas and oxygen steel furnace gas). Quantities have been converted to Mtce using calorific values reported by the respective countries. Please refer to notes in Principles and Definitions for further information.

Indonesia

COKING COAL EXPORTS BY DESTINATION

(thousand tonnes)

	1978[1]	1980	1985	1990	1995	2000	2006	2007	2008
Total Exports	**-**	**-**	**103**	**286**	**2411**	**4254**	**24595**	**31463**	**29575**
Exports to:									
Total OECD	**-**	**-**	**103**	**286**	**2411**	**4254**	**17494**	**20088**	**23219**
Austria	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-
Canada	-	-	-	-	-	-	-	-	-
Czech Republic	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	167	-	-
Finland	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	72	-
Germany	-	-	-	-	-	-	-	-	-
Greece	-	-	-	-	-	-	33	-	-
Hungary	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	597	1067	634
Japan	-	-	103	240	2153	3604	11757	13538	17211
Korea	-	-	-	-	44	209	-	1180	2863
Mexico	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	46	214	441	495	66	287
Norway	-	-	-	-	-	-	-	-	-
Poland	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	1993	2397	417
Sweden	-	-	-	-	-	-	-	-	-
Turkey	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	733	584	199
United States	-	-	-	-	-	-	1000	969	1472
Other OECD[2]	-	-	-	-	-	-	719	215	136
Total Non-OECD	**-**	**-**	**-**	**-**	**-**	**-**	**6531**	**11303**	**6356**
Brazil	-	-	-	-	-	-	-	-	-
Bulgaria	-	-	-	-	-	-	-	-	-
Chile	-	-	-	-	-	-	-	110	-
China, People's Rep.	-	-	-	-	-	-	1847	1698	4109
Chinese Taipei	-	-	-	-	-	-	1070	1826	-
Hong Kong, China	-	-	-	-	-	-	-	699	-
India	-	-	-	-	-	-	514	2083	1790
Israel	-	-	-	-	-	-	-	-	-
Morocco	-	-	-	-	-	-	-	-	-
Romania	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	-
Ukraine	-	-	-	-	-	-	-	-	-
Other Africa	-	-	-	-	-	-	75	-	-
Other Asia	-	-	-	-	-	-	2854	4746	327
Other Eastern Europe	-	-	-	-	-	-	171	71	65
Other FSU	-	-	-	-	-	-	-	-	-
Other Latin America	-	-	-	-	-	-	-	-	65
Other Middle East	-	-	-	-	-	-	-	70	-
Non-Specified/Other	**-**	**-**	**-**	**-**	**-**	**-**	**570**	**72**	**-**

Source: IEA/OECD Coal Statistics.

(1) Earliest year for which split by coal type is available.

(2) Australia, Iceland, Ireland, Luxembourg, New Zealand, Slovak Republic and Switzerland.

Indonesia

STEAM COAL EXPORTS BY DESTINATION

(thousand tonnes)

	1978[1]	1980	1985	1990	1995	2000	2006	2007	2008
Total Exports	**32**	**112**	**978**	**4574**	**28908**	**54480**	**146839**	**167650**	**173020**
Exports to:									
Total OECD	**-**	**9**	**306**	**891**	**11024**	**26318**	**56108**	**69431**	**71474**
Austria	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	6	-	-	-	328	270
Canada	-	-	-	-	-	-	59	-	-
Czech Republic	-	-	-	-	18	-	-	-	-
Denmark	-	-	-	-	285	-	67	-	-
Finland	-	-	-	-	-	-	-	-	194
France	-	-	-	-	65	-	-	88	-
Germany	-	-	-	38	172	105	310	15	142
Greece	-	-	-	-	-	133	73	89	-
Hungary	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	31	1637	6142	7515	5966
Japan	-	9	306	663	5998	13101	20203	20774	26600
Korea	-	-	-	33	1795	4825	17464	26500	25332
Mexico	-	-	-	-	-	-	-	-	132
Netherlands	-	-	-	133	855	2700	4446	1879	1555
Norway	-	-	-	-	-	-	-	-	-
Poland	-	-	-	-	-	7	-	-	-
Portugal	-	-	-	-	-	70	314	243	-
Spain	-	-	-	-	881	2793	2239	3894	3588
Sweden	-	-	-	-	-	-	-	-	-
Turkey	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	86	-	2250	1280	2183
United States	-	-	-	-	748	627	1505	3671	2264
Other OECD[2]	-	-	-	18	90	320	1036	3155	3248
Total Non-OECD	**32**	**103**	**672**	**3683**	**17866**	**28162**	**76826**	**96262**	**101546**
Brazil	-	-	-	-	-	468	150	156	-
Bulgaria	-	-	-	-	123	-	-	-	-
Chile	-	-	-	70	719	906	1773	1588	430
China, People's Rep.	-	-	-	105	336	142	2917	10157	11459
Chinese Taipei	-	-	-	546	5556	11786	24453	24598	25960
Hong Kong, China	-	-	-	660	4481	2816	10219	10958	12651
India	-	-	-	110	1800	3373	16045	23930	20674
Israel	-	-	-	-	-	-	-	-	3735
Morocco	-	-	-	-	-	-	122	-	65
Romania	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	-
Ukraine	-	-	-	-	-	-	-	-	-
Other Africa	-	-	-	-	-	-	-	73	69
Other Asia	32	103	672	2192	4582	8032	20701	23228	25879
Other Eastern Europe	-	-	-	-	269	567	446	1498	426
Other FSU	-	-	-	-	-	-	-	-	-
Other Latin America	-	-	-	-	-	72	-	-	63
Other Middle East	-	-	-	-	-	-	-	76	135
Non-Specified/Other	**-**	**-**	**-**	**-**	**18**	**-**	**13905**	**1957**	**-**

Source: IEA/OECD Coal Statistics.

(1) Earliest year for which split by coal type is available.

(2) Australia, Iceland, Ireland, Luxembourg, New Zealand, Slovak Republic and Switzerland.

Israel

COAL BALANCE*

(Mtce)

	1980	1985	1990	1995	2000	2006	2007	Average annual percent change 80-90	90-07
Production	-	-	0.0	0.1	0.1	0.1	0.1	-	2.1
Imports	0.0	2.8	3.6	6.3	8.9	11.4	12.1	113.5	7.3
Exports	-	-	-	-	-	-	-	-	-
Stock changes	-0.0	-0.1	-0.3	-0.5	0.6	0.2	-0.2	x	x
Primary supply	**0.0**	**2.6**	**3.4**	**5.9**	**9.5**	**11.7**	**12.0**	**127.0**	**7.6**
Statistical difference	**0.0**	**-**	**-**	**0.0**	**-0.3**	**-0.3**	**0.1**	**x**	**x**
Total transformation	**-0.0**	**-2.6**	**-3.4**	**-5.9**	**-9.2**	**-11.4**	**-12.0**	**137.9**	**7.7**
Electricity and heat gen.	-	-2.6	-3.4	-5.9	-9.2	-11.4	-12.0	-	7.7
Main activity producers (1)	-	*-2.6*	*-3.4*	*-5.9*	*-9.2*	*-11.4*	*-12.0*	-	*7.7*
Autoproducers	-	-	-	-	*-0.0*	*-0.0*	*-0.0*	-	-
Gas works	-	-	-	-	-	-	-	-	-
Coal transformation(2)	-0.0	-0.0	-	-	-	-	-	-	-
BKB plants	-	-	-	-	-	-	-	-	-
Blast furnaces	*-0.0*	*-0.0*	-	-	-	-	-	-	-
Coke ovens	-	-	-	-	-	-	-	-	-
Patent fuel plants	-	-	-	-	-	-	-	-	-
Other transformation(3)	-	-	-	-	-	-	-	-	-
Own use	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
Distribution losses	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**x**	**x**
Final consumption(4)	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**-**	**-**	**45.8**	**-**
Industry sector(5)	0.0	0.0	0.0	0.0	0.0	-	-	45.8	-
Iron and steel	*0.0*	*0.0*	-	-	-	-	-	-	-
Chemical	-	-	-	-	-	-	-	-	-
Non-metallic minerals	-	-	-	-	-	-	-	-	-
Paper, pulp and print	-	-	-	-	-	-	-	-	-
Transport sector(6)	-	-	-	-	-	-	-	-	-
Other sectors(7)	-	-	-	-	-	-	-	-	-
Comm. and pub. services	-	-	-	-	-	-	-	-	-
Residential	-	-	-	-	-	-	-	-	-
Non-energy use	-	-	-	-	-	-	-	-	-

Source: *IEA/OECD Energy Balances of Non-OECD Countries*

(1) Main activity electricity and heat generation includes district heating.

(2) Coal transformation refers to the transformation of coal to secondary and tertiary products (mainly coke, briquettes, coke oven gas and blast furnace gas).

(3) Other transformation includes liquefaction and non-specified transformation.

(4) Final Consumption includes non-energy use and energy use (industry, transport and other sectors).

(5) Please refer to notes in *Principles and Definitions* .

(6) Transport sector includes rail and inland waterways.

(7) Other sectors include commercial and public services, agriculture, and residential.

* "Coal" refers to all types of coal, primary (anthracite, coking coal, other bituminous coal, sub-bituminous coal, lignite/brown coal, peat) and derived fuels (including patent fuel, BKB/peat briquettes, coke oven coke, gas coke, coal tar, coke oven gas, gas works gas, blast furnace gas and oxygen steel furnace gas). Quantities have been converted to Mtce using calorific values reported by the respective countries. Please refer to notes in Principles and Definitions for further information.

Israel

HARD COAL IMPORTS BY ORIGIN*

(thousand tonnes)

	1978[1]	1980	1985	1990	1995	2000	2006	2007	2008
Hard coal	**-**	**1**	**3063**	**3998**	**7090**	**9636**	**12693**	**12585**	**13072**
Coking Coal	**-**	**-**	**-**	**50**	**153**	**-**	**-**	**125**	**304**
Australia	-	-	-	-	26	-	-	125	304
Canada	-	-	-	-	-	-	-	-	-
Czech Republic	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-
Poland	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-
United States	-	-	-	50	127	-	-	-	-
Other OECD	-	-	-	-	-	-	-	-	-
China, People's Rep.	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-
South Africa	-	-	-	-	-	-	-	-	-
Former USSR[2]	-	-	-	-	-	-	-	-	-
Russia [3]	-	-	-	-	-	-	-	-	-
Other former USSR [3]	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-
Non-specified/other	-	-	-	-	-	-	-	-	-
Steam Coal	**-**	**1**	**3063**	**3948**	**6937**	**9636**	**12693**	**12460**	**12768**
Australia	-	1	577	528	695	1228	480	513	519
Canada	-	-	-	-	-	-	-	-	328
Czech Republic	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-
Poland	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-
United States	-	-	421	539	610	480	-	-	-
Other OECD	-	-	-	-	-	-	-	-	-
China, People's Rep.	-	-	-	-	161	-	-	-	-
Colombia	-	-	100	548	886	1992	5053	4929	3410
Indonesia	-	-	-	-	161	1416	-	-	3735
South Africa	-	-	1965	2333	4424	4520	7160	7018	3720
Former USSR[2]	-	-	-	-	-	-	-	-	-
Russia [3]	-	-	-	-	-	-	-	-	*1056*
Other former USSR [3]	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-
Non-specified/other	-	-	-	-	-	-	-	-	-

Source: IEA/OECD Coal Statistics.

(1) Earliest year for which split by coal type is available.

(2) If no detail.

(3) Data for former Republics are not available separately for some countries.

* In these tables coal used for PCI and for blending has been classified by the IEA as steam coal. Accordingly, trade data reported in these tables may differ from those reported in Part III where this coal is shown as coking coal to be consistent with data reported by importing countries and with industry terminology and practice.

Kazakhstan

COAL BALANCE*

(Mtce)

	1980	1985	1990	1995	2000	2006	2007	Average annual percent change 80-90	90-07
Production	..	..	82.9	53.1	48.8	60.4	61.4	-	-1.7
Imports	..	..	6.8	1.5	1.0	1.1	1.0	-	-10.6
Exports	..	..	-32.6	-13.3	-18.4	-17.5	-18.9	-	-3.2
Stock changes	..	..	-	-	0.3	0.1	0.5	x	x
Primary supply	**..**	**..**	**57.1**	**41.3**	**31.6**	**44.2**	**44.1**	**-**	**-1.5**
Statistical difference	**..**	**..**	**-**	**-**	**-0.0**	**0.0**	**0.0**	**x**	**x**
Total transformation	**..**	**..**	**-34.5**	**-24.6**	**-23.3**	**-33.7**	**-32.5**	**-**	**-0.4**
Electricity and heat gen.	..	..	-34.4	-23.9	-20.9	-31.5	-30.0	-	-0.8
Main activity producers (1)	..	..	*-34.4*	*-23.9*	*-20.9*	*-31.5*	*-30.0*	-	*-0.8*
Autoproducers	..	..	-	-	-	-	-	-	-
Gas works	..	..	-	-	-	-	-	-	-
Coal transformation(2)	..	..	-0.1	-0.7	-2.4	-2.2	-2.5	-	19.9
BKB plants	..	..	-	-	-	-	-	-	-
Blast furnaces	..	..	-	-	-	-	-	-	-
Coke ovens	..	..	*-0.1*	*-0.7*	*-2.5*	*-2.3*	*-2.5*	-	*19.9*
Patent fuel plants	..	..	-	-	*0.0*	*0.1*	-	-	-
Other transformation(3)	..	..	-	-	-	-	-	-	-
Own use	**..**	**..**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
Distribution losses	**..**	**..**	**-**	**-**	**-0.1**	**-1.2**	**-1.3**	**x**	**x**
Final consumption(4)	**..**	**..**	**22.5**	**16.7**	**8.2**	**9.3**	**10.4**	**-**	**-4.5**
Industry sector(5)	..	..	22.5	16.7	7.2	8.4	9.5	-	-5.0
Iron and steel	..	..	*1.2*	*2.3*	*2.2*	*2.3*	*2.5*	-	*4.4*
Chemical	..	..	-	-	-	-	-	-	-
Non-metallic minerals	..	..	-	-	-	-	-	-	-
Paper, pulp and print	..	..	-	-	-	-	-	-	-
Transport sector(6)	..	..	-	-	-	-	-	-	-
Other sectors(7)	..	..	-	-	0.0	0.1	-	-	-
Comm. and pub. services	..	..	-	-	-	-	-	-	-
Residential	..	..	-	-	*0.0*	*0.1*	-	-	-
Non-energy use	..	..	-	-	1.0	0.9	0.9	-	-

Source: *IEA/OECD Energy Balances of Non-OECD Countries*

(1) Main activity electricity and heat generation includes district heating.

(2) Coal transformation refers to the transformation of coal to secondary and tertiary products (mainly coke, briquettes, coke oven gas and blast furnace gas).

(3) Other transformation includes liquefaction and non-specified transformation.

(4) Final Consumption includes non-energy use and energy use (industry, transport and other sectors).

(5) Please refer to notes in *Principles and Definitions* .

(6) Transport sector includes rail and inland waterways.

(7) Other sectors include commercial and public services, agriculture, and residential.

* "Coal" refers to all types of coal, primary (anthracite, coking coal, other bituminous coal, sub-bituminous coal, lignite/brown coal, peat) and derived fuels (including patent fuel, BKB/peat briquettes, coke oven coke, gas coke, coal tar, coke oven gas, gas works gas, blast furnace gas and oxygen steel furnace gas). Quantities have been converted to Mtce using calorific values reported by the respective countries. Please refer to notes in Principles and Definitions for further information.

Kazakhstan

HARD COAL IMPORTS BY ORIGIN*

(thousand tonnes)

	1978[1]	1980	1985	1990	1995	2000	2006	2007	2008
Hard coal	**-**	**-**	**-**	**3277**	**1209**	**668**	**6**	**2898**	**73**
Coking Coal	**-**	**-**	**-**	**-**	**96**	**-**	**6**	**-**	**15**
Australia	-	-	-	-	-	-	-	-	-
Canada	-	-	-	-	-	-	-	-	-
Czech Republic	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-
Poland	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-
United States	-	-	-	-	-	-	-	-	-
Other OECD	-	-	-	-	-	-	-	-	-
China, People's Rep.	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-
South Africa	-	-	-	-	-	-	-	-	-
Former USSR[2]	-	-	-	-	-	-	-	-	-
Russia [3]	-	-	-	-	*92*	-	*6*	-	*15*
Other former USSR [3]	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-
Non-specified/other	-	-	-	-	4	-	-	-	-
Steam Coal	**-**	**-**	**-**	**3277**	**1113**	**668**	**-**	**2898**	**58**
Australia	-	-	-	-	-	-	-	-	-
Canada	-	-	-	-	-	-	-	-	-
Czech Republic	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	30	-	-	-	-
Poland	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-
United States	-	-	-	-	-	-	-	-	-
Other OECD	-	-	-	-	-	-	-	-	-
China, People's Rep.	-	-	-	-	-	2	-	-	-
Colombia	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-
South Africa	-	-	-	-	-	-	-	-	-
Former USSR[2]	-	-	-	-	-	-	-	-	-
Russia [3]	-	-	-	*3277*	*1037*	*480*	-	*2898*	*58*
Other former USSR [3]	-	-	-	-	*46*	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-
Non-specified/other	-	-	-	-	-	186	-	-	-

Source: IEA/OECD Coal Statistics.

(1) Earliest year for which split by coal type is available.

(2) If no detail.

(3) Data for former Republics are not available separately for some countries.

* In these tables coal used for PCI and for blending has been classified by the IEA as steam coal. Accordingly, trade data reported in these tables may differ from those reported in Part III where this coal is shown as coking coal to be consistent with data reported by importing countries and with industry terminology and practice.

Kazakhstan

COKING COAL EXPORTS BY DESTINATION

(thousand tonnes)

	1978[1]	1980	1985	1990	1995	2000	2006	2007	2008
Total Exports	**-**	**-**	**-**	**-**	**1999**	**291**	**2105**	**161**	**1**
Exports to:									
Total OECD	**-**	**-**	**-**	**-**	**9**	**-**	**-**	**68**	**1**
Austria	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-
Canada	-	-	-	-	-	-	-	-	-
Czech Republic	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	14	-
Finland	-	-	-	-	-	-	-	13	-
France	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-
Greece	-	-	-	-	-	-	-	-	-
Hungary	-	-	-	-	-	-	-	10	-
Italy	-	-	-	-	-	-	-	-	-
Japan	-	-	-	-	-	-	-	-	-
Korea	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-
Poland	-	-	-	-	-	-	-	31	1
Portugal	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-
Turkey	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-
United States	-	-	-	-	9	-	-	-	-
Other OECD[2]	-	-	-	-	-	-	-	-	-
Total Non-OECD	**-**	**-**	**-**	**-**	**1990**	**-**	**2105**	**93**	**-**
Brazil	-	-	-	-	-	-	-	-	-
Bulgaria	-	-	-	-	-	-	-	-	-
Chile	-	-	-	-	-	-	-	-	-
China, People's Rep.	-	-	-	-	-	-	-	-	-
Chinese Taipei	-	-	-	-	-	-	-	-	-
Hong Kong, China	-	-	-	-	14	-	-	-	-
India	-	-	-	-	-	-	-	-	-
Israel	-	-	-	-	-	-	-	-	-
Morocco	-	-	-	-	-	-	-	-	-
Romania	-	-	-	-	-	-	2105	93	-
Russia	-	-	-	-	1959	-	-	-	-
Ukraine	-	-	-	-	10	-	-	-	-
Other Africa	-	-	-	-	-	-	-	-	-
Other Asia	-	-	-	-	-	-	-	-	-
Other Eastern Europe	-	-	-	-	-	-	-	-	-
Other FSU	-	-	-	-	7	-	-	-	-
Other Latin America	-	-	-	-	-	-	-	-	-
Other Middle East	-	-	-	-	-	-	-	-	-
Non-Specified/Other	**-**	**-**	**-**	**-**	**-**	**291**	**-**	**-**	**-**

Source: IEA/OECD Coal Statistics.

(1) Earliest year for which split by coal type is available.

(2) Australia, Iceland, Ireland, Luxembourg, New Zealand, Slovak Republic and Switzerland.

Kazakhstan

STEAM COAL EXPORTS BY DESTINATION

(thousand tonnes)

	1978[1]	1980	1985	1990	1995	2000	2006	2007	2008
Total Exports	**-**	**-**	**-**	**53210**	**18769**	**25300**	**25999**	**25587**	**27068**
Exports to:									
Total OECD	**-**	**-**	**-**	**-**	**-**	**-**	**110**	**50**	**448**
Austria	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-
Canada	-	-	-	-	-	-	-	-	-
Czech Republic	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	2	-
Finland	-	-	-	-	-	-	23	-	27
France	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-
Greece	-	-	-	-	-	-	-	-	7
Hungary	-	-	-	-	-	-	5	26	22
Italy	-	-	-	-	-	-	-	7	5
Japan	-	-	-	-	-	-	-	-	-
Korea	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-
Poland	-	-	-	-	-	-	82	15	382
Portugal	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	3
Turkey	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-
United States	-	-	-	-	-	-	-	-	-
Other OECD[2]	-	-	-	-	-	-	-	-	2
Total Non-OECD	**-**	**-**	**-**	**53210**	**18769**	**25300**	**25889**	**25537**	**26620**
Brazil	-	-	-	-	-	-	-	-	-
Bulgaria	-	-	-	-	-	-	-	-	-
Chile	-	-	-	-	-	-	-	-	-
China, People's Rep.	-	-	-	-	-	-	-	-	-
Chinese Taipei	-	-	-	-	-	-	-	-	-
Hong Kong, China	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-
Israel	-	-	-	-	-	-	-	-	-
Morocco	-	-	-	-	-	-	-	-	-
Romania	-	-	-	-	-	-	-	-	2
Russia	-	-	-	53210	18226	24080	25889	25537	25809
Ukraine	-	-	-	-	16	1220	-	-	-
Other Africa	-	-	-	-	-	-	-	-	-
Other Asia	-	-	-	-	-	-	-	-	-
Other Eastern Europe	-	-	-	-	-	-	-	-	-
Other FSU	-	-	-	-	527	-	-	-	809
Other Latin America	-	-	-	-	-	-	-	-	-
Other Middle East	-	-	-	-	-	-	-	-	-
Non-Specified/Other	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**

Source: IEA/OECD Coal Statistics.

(1) Earliest year for which split by coal type is available.

(2) Australia, Iceland, Ireland, Luxembourg, New Zealand, Slovak Republic and Switzerland.

Romania

COAL BALANCE*

(Mtce)

	1980	1985	1990	1995	2000	2006	2007	Average annual percent change 80-90	90-07
Production	11.6	14.7	12.4	11.3	8.0	9.4	9.6	0.7	-1.5
Imports	6.4	7.3	6.4	4.4	2.7	3.7	4.6	0.1	-1.9
Exports	-	-	-	-0.3	-0.0	-0.0	-0.1	-	-
Stock changes	-	-	-0.3	0.1	-0.1	0.4	-0.3	x	x
Primary supply	**17.9**	**22.0**	**18.5**	**15.4**	**10.6**	**13.5**	**13.9**	**0.3**	**-1.7**
Statistical difference	**-0.3**	**-0.7**	**-0.1**	**-0.3**	**-0.1**	**-0.0**	**-0.6**	**x**	**x**
Total transformation	**-9.6**	**-13.6**	**-13.6**	**-12.7**	**-9.2**	**-11.4**	**-11.4**	**3.6**	**-1.1**
Electricity and heat gen.	-6.7	-10.0	-11.3	-10.9	-8.0	-9.8	-9.8	5.3	-0.8
Main activity producers (1)	*-6.7*	*-7.5*	*-9.2*	*-10.7*	*-7.7*	*-9.1*	*-8.9*	*3.2*	*-0.2*
Autoproducers	-	*-2.6*	*-2.0*	*-0.2*	*-0.3*	*-0.7*	*-0.9*	-	*-5.0*
Gas works	-	-	-	-	-	-	-	-	-
Coal transformation(2)	-2.9	-3.6	-2.4	-1.8	-1.2	-1.6	-1.6	-1.9	-2.2
BKB plants	*-0.5*	*-0.5*	*-0.2*	-	-	-	-	*-6.9*	-
Blast furnaces	*-2.6*	*-3.0*	*-1.9*	*-1.3*	*-0.9*	*-1.2*	*-1.2*	*-3.0*	*-2.8*
Coke ovens	*-0.1*	*-0.5*	*-0.3*	*-0.5*	*-0.4*	*-0.4*	*-0.4*	*9.2*	*1.2*
Patent fuel plants	*0.4*	*0.4*	*0.1*	-	-	-	-	*-9.5*	-
Other transformation(3)	-	-	-	-	-	-	-	-	-
Own use	**-**	**-**	**-**	**-0.1**	**-0.2**	**-0.4**	**-0.4**	**-**	**-**
Distribution losses	**-**	**-**	**-0.2**	**-0.2**	**-0.0**	**-0.1**	**-0.1**	**x**	**x**
Final consumption(4)	**8.1**	**7.7**	**4.5**	**2.0**	**1.1**	**1.6**	**1.5**	**-5.7**	**-6.4**
Industry sector(5)	4.9	4.8	3.1	1.9	1.0	1.6	1.4	-4.4	-4.6
Iron and steel	*3.8*	*4.0*	*2.5*	*1.8*	*0.8*	*1.4*	*1.2*	*-4.2*	*-4.2*
Chemical	-	-	*0.2*	*0.0*	*0.2*	*0.2*	*0.2*	-	*-2.1*
Non-metallic minerals	-	-	*0.1*	*0.0*	*0.0*	*0.1*	*0.1*	-	*-2.7*
Paper, pulp and print	-	-	-	*0.0*	*0.0*	-	-	-	-
Transport sector(6)	-	-	0.0	0.0	-	-	-	-	-
Other sectors(7)	3.2	2.9	1.3	0.1	0.1	0.0	0.0	-8.4	-21.3
Comm. and pub. services	-	-	-	-	*0.0*	-	*0.0*	-	-
Residential	*0.5*	*0.6*	*0.9*	*0.1*	*0.1*	*0.0*	*0.0*	*5.2*	*-21.8*
Non-energy use	-	-	-	0.0	-	-	0.0	-	-

Source: *IEA/OECD Energy Balances of Non-OECD Countries*

(1) Main activity electricity and heat generation includes district heating.

(2) Coal transformation refers to the transformation of coal to secondary and tertiary products (mainly coke, briquettes, coke oven gas and blast furnace gas).

(3) Other transformation includes liquefaction and non-specified transformation.

(4) Final Consumption includes non-energy use and energy use (industry, transport and other sectors).

(5) Please refer to notes in *Principles and Definitions* .

(6) Transport sector includes rail and inland waterways.

(7) Other sectors include commercial and public services, agriculture, and residential.

* "Coal" refers to all types of coal, primary (anthracite, coking coal, other bituminous coal, sub-bituminous coal, lignite/brown coal, peat) and derived fuels (including patent fuel, BKB/peat briquettes, coke oven coke, gas coke, coal tar, coke oven gas, gas works gas, blast furnace gas and oxygen steel furnace gas). Quantities have been converted to Mtce using calorific values reported by the respective countries. Please refer to notes in Principles and Definitions for further information.

Romania

HARD COAL IMPORTS BY ORIGIN*

(thousand tonnes)

	1978[1]	1980	1985	1990	1995	2000	2006	2007	2008
Hard coal	**4669**	**3949**	**6048**	**4981**	**4681**	**2521**	**2786**	**4756**	**3809**
Coking Coal	**3600**	**3400**	**4000**	**3600**	**4675**	**2370**	**2726**	**2898**	**2412**
Australia	675	267	595	1200	513	-	71	452	145
Canada	-	-	-	-	-	-	-	-	70
Czech Republic	-	-	-	12	57	-	-	-	-
Germany	-	-	-	-	2	-	-	-	-
Poland	-	-	-	100	147	62	-	-	-
United Kingdom	-	-	-	-	98	-	-	-	-
United States	673	853	1051	1188	1437	678	1079	1279	1077
Other OECD	-	-	-	12	222	-	-	-	-
China, People's Rep.	-	-	-	400	124	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	75
Indonesia	-	-	-	-	-	-	-	-	-
South Africa	-	-	-	-	-	-	-	-	-
Former USSR[2]	2252	2280	-	-	-	-	-	-	-
Russia [3]	-	-	-	*500*	*1741*	*1630*	*870*	*852*	*1045*
Other former USSR [3]	-	-	-	*200*	*97*	-	*706*	*275*	-
Venezuela	-	-	-	-	-	-	-	40	-
Vietnam	-	-	-	-	-	-	-	-	-
Non-specified/other	-	-	-	-	294	-	-	-	-
Steam Coal	**1069**	**549**	**2048**	**1381**	**6**	**151**	**60**	**1858**	**1397**
Australia	-	49	-	33	-	-	-	82	216
Canada	-	-	-	-	-	-	-	-	-
Czech Republic	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-
Poland	-	-	-	16	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-
United States	-	413	-	11	2	-	-	285	74
Other OECD	-	-	-	-	-	-	-	2	16
China, People's Rep.	-	-	-	-	-	-	1	-	-
Colombia	-	-	-	-	-	69	-	-	104
Indonesia	-	-	-	-	-	-	-	-	-
South Africa	-	-	-	-	-	-	-	35	-
Former USSR[2]	1069	87	-	-	-	-	-	-	-
Russia [3]	-	-	-	*1321*	*3*	*31*	*17*	*1390*	*824*
Other former USSR [3]	-	-	-	-	*1*	-	*42*	*61*	*145*
Venezuela	-	-	-	-	-	51	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-
Non-specified/other	-	-	-	-	-	-	-	3	18

Source: IEA/OECD Coal Statistics.

(1) Earliest year for which split by coal type is available.

(2) If no detail.

(3) Data for former Republics are not available separately for some countries.

* In these tables coal used for PCI and for blending has been classified by the IEA as steam coal. Accordingly, trade data reported in these tables may differ from those reported in Part III where this coal is shown as coking coal to be consistent with data reported by importing countries and with industry terminology and practice.

Russia

COAL BALANCE*

(Mtce)

	1980	1985	1990	1995	2000	2006	2007	Average annual percent change 80-90	90-07
Production	..	..	256.5	167.2	167.2	204.6	208.8	-	-1.2
Imports	..	..	47.8	17.8	20.0	20.3	18.6	-	-5.4
Exports	..	..	-50.1	-22.4	-31.1	-73.3	-79.8	-	2.8
Stock changes	..	..	5.6	4.1	2.2	0.8	-1.5	x	x
Primary supply	**..**	**..**	**259.8**	**166.7**	**158.3**	**152.5**	**146.0**	**-**	**-3.3**
Statistical difference	**..**	**..**	**8.4**	**12.8**	**0.0**	**0.0**	**-**	**x**	**x**
Total transformation	**..**	**..**	**-171.3**	**-130.5**	**-126.4**	**-127.6**	**-119.2**	**-**	**-2.1**
Electricity and heat gen.	..	..	-149.9	-115.6	-114.1	-116.7	-108.2	-	-1.9
Main activity producers (1)	..	..	*-149.9*	*-88.1*	*-80.6*	*-78.8*	*-73.6*	-	*-4.1*
Autoproducers	..	..	-	*-27.5*	*-33.5*	*-37.9*	*-34.7*	-	-
Gas works	..	..	-	-	-	-	-	-	-
Coal transformation(2)	..	..	-21.4	-14.9	-12.3	-10.9	-11.0	-	-3.9
BKB plants	..	..	*-1.5*	*-0.6*	*-0.0*	*-0.0*	*-0.0*	-	*-30.3*
Blast furnaces	..	..	*-17.7*	*-12.7*	*-10.6*	*-10.7*	*-10.8*	-	*-2.9*
Coke ovens	..	..	*-2.2*	*-1.6*	*-1.7*	*-0.2*	*-0.1*	-	*-15.0*
Patent fuel plants	..	..	-	-	-	-	-	-	-
Other transformation(3)	..	..	-	-	-	-	-	-	-
Own use	**..**	**..**	**-0.8**	**-0.7**	**-0.8**	**-1.7**	**-1.8**	**-**	**5.1**
Distribution losses	**..**	**..**	**-17.8**	**-8.8**	**-1.5**	**-**	**-**	**x**	**x**
Final consumption(4)	**..**	**..**	**78.4**	**39.5**	**29.6**	**23.2**	**25.0**	**-**	**-6.5**
Industry sector(5)	..	..	22.5	23.5	15.0	14.7	18.4	-	-1.2
Iron and steel	..	..	*16.8*	*19.2*	*11.3*	*12.1*	*15.6*	-	*-0.5*
Chemical	..	..	*0.6*	*0.5*	*0.1*	*0.5*	*0.7*	-	*0.9*
Non-metallic minerals	..	..	*0.5*	*0.9*	*0.7*	*1.2*	*1.4*	-	*6.6*
Paper, pulp and print	..	..	-	-	-	*0.0*	-	-	-
Transport sector(6)	..	..	0.0	0.0	-	-	-	-	-
Other sectors(7)	..	..	55.9	16.0	13.6	7.7	6.2	-	-12.1
Comm. and pub. services	..	..	*28.6*	*1.1*	*0.5*	*3.1*	*2.6*	-	*-13.1*
Residential	..	..	*16.6*	*10.9*	*12.2*	*4.4*	*3.5*	-	*-8.8*
Non-energy use	..	..	0.0	0.0	1.0	0.8	0.4	-	15.4

Source: *IEA/OECD Energy Balances of Non-OECD Countries*

(1) Main activity electricity and heat generation includes district heating.

(2) Coal transformation refers to the transformation of coal to secondary and tertiary products (mainly coke, briquettes, coke oven gas and blast furnace gas).

(3) Other transformation includes liquefaction and non-specified transformation.

(4) Final Consumption includes non-energy use and energy use (industry, transport and other sectors).

(5) Please refer to notes in *Principles and Definitions* .

(6) Transport sector includes rail and inland waterways.

(7) Other sectors include commercial and public services, agriculture, and residential.

* "Coal" refers to all types of coal, primary (anthracite, coking coal, other bituminous coal, sub-bituminous coal, lignite/brown coal, peat) and derived fuels (including patent fuel, BKB/peat briquettes, coke oven coke, gas coke, coal tar, coke oven gas, gas works gas, blast furnace gas and oxygen steel furnace gas). Quantities have been converted to Mtce using calorific values reported by the respective countries. Please refer to notes in Principles and Definitions for further information.

Russia

COKING COAL EXPORTS BY DESTINATION

(thousand tonnes)

	1978[1]	1980	1985	1990	1995	2000	2006	2007	2008
Total Exports	**-**	**-**	**-**	**31573**	**8693**	**6704**	**10008**	**14921**	**15501**
Exports to:									
Total OECD	**-**	**-**	**-**	**10503**	**6133**	**1504**	**3907**	**5640**	**5403**
Austria	-	-	-	608	161	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	6
Canada	-	-	-	-	111	-	-	-	-
Czech Republic	-	-	-	1532	-	-	-	-	-
Denmark	-	-	-	-	67	-	36	81	39
Finland	-	-	-	463	431	91	220	400	598
France	-	-	-	-	84	-	-	24	23
Germany	-	-	-	177	-	-	-	69	242
Greece	-	-	-	-	-	-	-	-	28
Hungary	-	-	-	480	-	132	193	328	189
Italy	-	-	-	131	857	-	63	-	203
Japan	-	-	-	5482	3505	462	2693	2800	2323
Korea	-	-	-	1200	571	-	399	697	399
Mexico	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	9	39	74
Norway	-	-	-	-	-	-	-	-	-
Poland	-	-	-	-	-	736	9	7	44
Portugal	-	-	-	-	-	-	-	-	53
Spain	-	-	-	-	-	72	26	161	56
Sweden	-	-	-	-	156	-	-	41	29
Turkey	-	-	-	337	-	-	119	580	742
United Kingdom	-	-	-	93	158	11	116	388	210
United States	-	-	-	-	32	-	-	-	-
Other OECD[2]	-	-	-	-	-	-	24	25	145
Total Non-OECD	**-**	**-**	**-**	**21070**	**2560**	**5200**	**6089**	**9225**	**9197**
Brazil	-	-	-	-	-	-	-	-	19
Bulgaria	-	-	-	156	822	174	201	139	88
Chile	-	-	-	-	-	-	-	-	-
China, People's Rep.	-	-	-	-	-	-	-	-	214
Chinese Taipei	-	-	-	-	-	1337	123	113	3
Hong Kong, China	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	26
Israel	-	-	-	-	-	-	-	-	-
Morocco	-	-	-	-	-	-	-	-	-
Romania	-	-	-	500	876	1525	1038	632	1110
Russia	-	-	-	-	-	-	-	-	-
Ukraine	-	-	-	19964	-	2164	4512	8092	6412
Other Africa	-	-	-	150	81	-	-	-	-
Other Asia	-	-	-	300	-	-	-	-	-
Other Eastern Europe	-	-	-	-	781	-	198	188	776
Other FSU	-	-	-	-	-	-	17	61	549
Other Latin America	-	-	-	-	-	-	-	-	-
Other Middle East	-	-	-	-	-	-	-	-	-
Non-Specified/Other	**-**	**-**	**-**	**-**	**-**	**-**	**12**	**56**	**901**

Source: IEA/OECD Coal Statistics.

(1) Earliest year for which split by coal type is available.

(2) Australia, Iceland, Ireland, Luxembourg, New Zealand, Slovak Republic and Switzerland.

Russia

STEAM COAL EXPORTS BY DESTINATION

(thousand tonnes)

	1978[1]	1980	1985	1990	1995	2000	2006	2007	2008
Total Exports	**-**	**-**	**-**	**24478**	**17570**	**29651**	**81386**	**85233**	**85907**
Exports to:									
Total OECD	**-**	**-**	**-**	**10103**	**8296**	**25585**	**58565**	**65507**	**74671**
Austria	-	-	-	-	156	-	185	-	132
Belgium	-	-	-	234	871	788	2453	729	1007
Canada	-	-	-	-	-	-	966	196	229
Czech Republic	-	-	-	-	242	-	337	-	44
Denmark	-	-	-	1142	-	1295	463	500	2181
Finland	-	-	-	1905	122	2449	4141	4979	4111
France	-	-	-	777	-	282	678	931	1216
Germany	-	-	-	157	593	928	6858	4039	9159
Greece	-	-	-	324	215	320	113	119	120
Hungary	-	-	-	-	83	-	161	264	195
Italy	-	-	-	609	201	1092	483	584	1196
Japan	-	-	-	2845	1936	7041	7162	7807	8941
Korea	-	-	-	-	200	2565	2518	4676	6436
Mexico	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	32	85	209	3637	3867	1178
Norway	-	-	-	97	52	13	28	-	44
Poland	-	-	-	-	164	14	2764	3623	4619
Portugal	-	-	-	54	35	-	-	-	53
Spain	-	-	-	285	138	1340	1888	1299	2335
Sweden	-	-	-	573	282	271	183	395	898
Turkey	-	-	-	530	1249	5063	8414	11184	8142
United Kingdom	-	-	-	499	192	480	13531	18307	20862
United States	-	-	-	-	-	-	372	-	-
Other OECD[2]	-	-	-	40	1480	1435	1230	2008	1573
Total Non-OECD	**-**	**-**	**-**	**14375**	**9038**	**4066**	**22313**	**19690**	**11236**
Brazil	-	-	-	-	-	-	463	313	605
Bulgaria	-	-	-	-	1010	364	2999	1808	1636
Chile	-	-	-	-	-	-	-	-	-
China, People's Rep.	-	-	-	-	81	72	521	359	546
Chinese Taipei	-	-	-	-	114	-	804	985	913
Hong Kong, China	-	-	-	-	-	61	-	-	-
India	-	-	-	-	-	36	21	-	-
Israel	-	-	-	-	-	-	-	-	1056
Morocco	-	-	-	-	46	-	130	164	-
Romania	-	-	-	-	697	5	694	1261	1113
Russia	-	-	-	-	-	-	-	-	-
Ukraine	-	-	-	6722	5204	2175	3082	2797	2897
Other Africa	-	-	-	-	-	-	-	-	-
Other Asia	-	-	-	-	261	-	1903	80	20
Other Eastern Europe	-	-	-	-	232	-	8854	10494	1610
Other FSU	-	-	-	7653	1393	1353	2837	1404	840
Other Latin America	-	-	-	-	-	-	4	-	-
Other Middle East	-	-	-	-	-	-	1	25	-
Non-Specified/Other	**-**	**-**	**-**	**-**	**236**	**-**	**508**	**36**	**-**

Source: IEA/OECD Coal Statistics.

(1) Earliest year for which split by coal type is available.

(2) Australia, Iceland, Ireland, Luxembourg, New Zealand, Slovak Republic and Switzerland.

South Africa

COAL BALANCE*

(Mtce)

	1980	1985	1990	1995	2000	2006	2007	Average annual percent change 80-90	90-07
Production	95.4	142.5	143.1	168.6	181.3	197.5	199.8	4.1	2.0
Imports	-	-	-	0.4	1.2	2.0	1.8	-	-
Exports	-27.2	-46.0	-48.0	-57.6	-67.0	-65.7	-62.9	5.8	1.6
Stock changes	-	-	-	0.3	1.6	-	-	x	x
Primary supply	**68.1**	**96.5**	**95.1**	**111.6**	**117.1**	**133.7**	**138.7**	**3.4**	**2.2**
Statistical difference	**5.8**	**-3.7**	**6.7**	**-3.5**	**-0.3**	**-2.6**	**-4.7**	**x**	**x**
Total transformation	**-47.6**	**-70.1**	**-78.9**	**-86.6**	**-95.4**	**-110.5**	**-113.4**	**5.2**	**2.2**
Electricity and heat gen.	-37.2	-44.9	-51.7	-60.2	-68.3	-76.8	-80.7	3.4	2.6
Main activity producers (1)	*-32.1*	*-40.8*	*-48.6*	*-56.6*	*-64.4*	*-73.5*	*-77.4*	*4.2*	*2.8*
Autoproducers	*-5.1*	*-4.1*	*-3.2*	*-3.5*	*-4.0*	*-3.2*	*-3.3*	*-4.8*	*0.3*
Gas works	-3.5	-3.7	-3.9	-4.5	-4.6	-6.2	-6.2	1.2	2.7
Coal transformation(2)	-3.9	-3.3	-3.2	-2.1	-1.3	-1.3	-1.2	-2.0	-5.5
BKB plants	-	-	-	-	-	-	-	-	-
Blast furnaces	*-2.6*	*-1.9*	*-1.6*	*-1.1*	*-0.7*	*-0.8*	*-0.8*	*-4.9*	*-4.0*
Coke ovens	*-1.3*	*-1.4*	*-1.6*	*-1.0*	*-0.6*	*-0.5*	*-0.4*	*2.0*	*-7.5*
Patent fuel plants	-	-	-	-	-	-	-	-	-
Other transformation(3)	-3.1	-18.2	-20.1	-19.9	-21.2	-26.3	-25.3	20.6	1.4
Own use	**-0.0**	**-0.0**	**-0.0**	**-**	**-**	**-**	**-**	**-3.5**	**-**
Distribution losses	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**x**	**x**
Final consumption(4)	**26.2**	**22.6**	**22.8**	**21.5**	**21.5**	**20.6**	**20.7**	**-1.4**	**-0.6**
Industry sector(5)	20.0	16.0	15.3	10.7	11.7	11.2	11.1	-2.6	-1.9
Iron and steel	*9.8*	*9.4*	*8.9*	*5.6*	*5.4*	*5.6*	*5.3*	*-0.9*	*-3.0*
Chemical	-	-	-	*1.5*	*1.1*	-	-	-	-
Non-metallic minerals	*2.1*	*2.0*	*1.8*	*1.5*	*1.1*	*0.7*	*0.7*	*-1.5*	*-5.3*
Paper, pulp and print	-	-	-	-	-	-	-	-	-
Transport sector(6)	1.8	0.9	0.1	0.0	-	-	-	-28.0	-
Other sectors(7)	3.3	3.1	3.5	4.0	2.2	7.7	7.8	0.5	4.9
Comm. and pub. services	*1.1*	*1.3*	*1.3*	*1.4*	*0.7*	*2.6*	*2.6*	*1.8*	*4.1*
Residential	*2.1*	*1.7*	*2.1*	*2.4*	*1.4*	*5.1*	*5.2*	*-0.1*	*5.4*
Non-energy use	1.2	2.7	4.0	6.8	7.5	1.7	1.8	13.1	-4.5

Source: *IEA/OECD Energy Balances of Non-OECD Countries*

(1) Main activity electricity and heat generation includes district heating.

(2) Coal transformation refers to the transformation of coal to secondary and tertiary products (mainly coke, briquettes, coke oven gas and blast furnace gas).

(3) Other transformation includes liquefaction and non-specified transformation.

(4) Final Consumption includes non-energy use and energy use (industry, transport and other sectors).

(5) Please refer to notes in *Principles and Definitions* .

(6) Transport sector includes rail and inland waterways.

(7) Other sectors include commercial and public services, agriculture, and residential.

* "Coal" refers to all types of coal, primary (anthracite, coking coal, other bituminous coal, sub-bituminous coal, lignite/brown coal, peat) and derived fuels (including patent fuel, BKB/peat briquettes, coke oven coke, gas coke, coal tar, coke oven gas, gas works gas, blast furnace gas and oxygen steel furnace gas). Quantities have been converted to Mtce using calorific values reported by the respective countries. Please refer to notes in Principles and Definitions for further information.

South Africa

COKING COAL EXPORTS BY DESTINATION

(thousand tonnes)

	1978[1]	1980	1985	1990	1995	2000	2006	2007	2008
Total Exports	**2700**	**3447**	**5142**	**4033**	**6305**	**-**	**380**	**814**	**559**
Exports to:									
Total OECD	**2700**	**3347**	**5142**	**3633**	**5181**	**-**	**256**	**814**	**210**
Austria	-	-	-	-	-	-	-	-	-
Belgium	-	-	34	157	176	-	-	207	85
Canada	-	-	-	-	-	-	-	-	-
Czech Republic	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-
France	-	544	-	-	570	-	143	-	-
Germany	-	-	-	-	30	-	27	-	-
Greece	-	-	-	-	-	-	-	-	-
Hungary	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	280	-	-	465	50
Japan	2700	2803	4586	3375	3375	-	-	-	-
Korea	-	-	300	100	750	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-
Netherlands	-	-	21	1	-	-	54	142	75
Norway	-	-	-	-	-	-	-	-	-
Poland	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-
Turkey	-	-	200	-	-	-	-	-	-
United Kingdom	-	-	1	-	-	-	32	-	-
United States	-	-	-	-	-	-	-	-	-
Other OECD[2]	-	-	-	-	-	-	-	-	-
Total Non-OECD	**-**	**100**	**-**	**400**	**1124**	**-**	**124**	**-**	**349**
Brazil	-	-	-	400	1124	-	68	-	-
Bulgaria	-	-	-	-	-	-	-	-	-
Chile	-	-	-	-	-	-	35	-	-
China, People's Rep.	-	-	-	-	-	-	-	-	-
Chinese Taipei	-	100	-	-	-	-	-	-	-
Hong Kong, China	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	21	-	349
Israel	-	-	-	-	-	-	-	-	-
Morocco	-	-	-	-	-	-	-	-	-
Romania	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	-
Ukraine	-	-	-	-	-	-	-	-	-
Other Africa	-	-	-	-	-	-	-	-	-
Other Asia	-	-	-	-	-	-	-	-	-
Other Eastern Europe	-	-	-	-	-	-	-	-	-
Other FSU	-	-	-	-	-	-	-	-	-
Other Latin America	-	-	-	-	-	-	-	-	-
Other Middle East	-	-	-	-	-	-	-	-	-
Non-Specified/Other	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**

Source: IEA/OECD Coal Statistics.

(1) Earliest year for which split by coal type is available.

(2) Australia, Iceland, Ireland, Luxembourg, New Zealand, Slovak Republic and Switzerland.

South Africa

STEAM COAL EXPORTS BY DESTINATION

(thousand tonnes)

	1978[1]	1980	1985	1990	1995	2000	2006	2007	2008
Total Exports	**12689**	**24712**	**42488**	**45867**	**53371**	**67001**	**68892**	**65837**	**61282**
Exports to:									
Total OECD	**12689**	**22361**	**33978**	**32994**	**39235**	**48763**	**52431**	**45858**	**42341**
Austria	-	-	-	6	-	-	-	-	-
Belgium	606	2050	2078	4365	3641	2504	1722	943	1387
Canada	-	-	-	-	-	46	200	-	-
Czech Republic	-	-	-	-	-	-	-	-	-
Denmark	868	3118	3496	-	3666	1721	2450	2795	1511
Finland	-	-	-	-	325	-	133	-	184
France	6643	8596	6444	863	1395	5872	4613	4008	3930
Germany	1108	1492	3196	4512	3670	3979	9473	2734	5816
Greece	-	-	207	1017	630	269	-	-	40
Hungary	-	-	-	-	-	-	-	-	-
Italy	960	3132	6641	4884	3653	4173	4815	4787	4808
Japan	157	385	4091	1427	3039	1661	-	440	50
Korea	1861	2000	3700	5733	3850	2385	-	289	933
Mexico	-	-	-	-	-	41	-	-	826
Netherlands	309	459	812	1304	3503	7564	5822	12491	9060
Norway	-	-	-	-	30	-	-	-	-
Poland	-	-	-	-	-	265	-	-	167
Portugal	3	3	104	2112	2683	2112	1427	1554	1346
Spain	114	713	2274	4667	7016	8403	8544	6996	5688
Sweden	-	-	19	-	135	-	-	160	-
Turkey	-	-	-	1252	315	2547	2207	1315	1350
United Kingdom	26	66	724	356	735	4503	10379	5572	3518
United States	-	-	-	-	140	50	-	561	-
Other OECD[2]	34	347	192	496	809	668	646	1213	1727
Total Non-OECD	**-**	**1600**	**7600**	**12568**	**14136**	**17891**	**16364**	**19938**	**18941**
Brazil	-	-	-	-	-	1919	958	582	1223
Bulgaria	-	-	-	-	60	107	33	347	64
Chile	-	-	-	900	-	85	156	-	420
China, People's Rep.	-	-	-	-	810	522	-	30	-
Chinese Taipei	-	1600	1000	5685	5138	2488	-	410	-
Hong Kong, China	-	-	2200	3217	2763	486	-	-	-
India	-	-	-	-	490	3636	2615	7703	7766
Israel	-	-	2200	2583	3900	5523	5314	4214	3720
Morocco	-	-	-	-	100	1978	3160	1275	1193
Romania	-	-	-	-	-	-	156	70	-
Russia	-	-	-	-	-	-	-	-	-
Ukraine	-	-	-	-	-	-	63	53	-
Other Africa	-	-	-	-	145	356	1967	1804	1592
Other Asia	-	-	-	183	40	201	580	2666	1430
Other Eastern Europe	-	-	-	-	185	-	-	30	133
Other FSU	-	-	-	-	-	-	-	-	-
Other Latin America	-	-	2200	-	505	554	736	399	700
Other Middle East	-	-	-	-	-	36	626	355	700
Non-Specified/Other	**-**	**751**	**910**	**305**	**-**	**347**	**97**	**41**	**-**

Source: IEA/OECD Coal Statistics.

(1) Earliest year for which split by coal type is available.

(2) Australia, Iceland, Ireland, Luxembourg, New Zealand, Slovak Republic and Switzerland.

Ukraine

COAL BALANCE*

(Mtce)

	1980	1985	1990	1995	2000	2006	2007	Average annual percent change 80-90	90-07
Production	..	..	124.0	61.1	51.9	50.5	48.1	-	-5.4
Imports	..	..	15.2	13.7	5.8	9.6	13.3	-	-0.8
Exports	..	..	-21.7	-1.8	-2.6	-3.0	-3.3	-	-10.5
Stock changes	..	..	0.8	-	-	0.1	-0.1	x	x
Primary supply	**..**	**..**	**118.3**	**73.0**	**55.1**	**57.3**	**58.0**	**-**	**-4.1**
Statistical difference	**..**	**..**	**-3.9**	**-0.9**	**-0.3**	**0.5**	**3.1**	**x**	**x**
Total transformation	**..**	**..**	**-72.5**	**-50.4**	**-37.8**	**-37.6**	**-40.0**	**-**	**-3.4**
Electricity and heat gen.	..	..	-50.7	-33.1	-20.8	-25.8	-26.7	-	-3.7
Main activity producers (1)	..	..	*-48.9*	*-31.7*	*-19.8*	*-23.6*	*-24.3*	-	*-4.0*
Autoproducers	..	..	*-1.8*	*-1.4*	*-1.1*	*-2.2*	*-2.4*	-	*1.8*
Gas works	..	..	-	-	-	-	-	-	-
Coal transformation(2)	..	..	-21.8	-17.3	-17.0	-11.9	-13.3	-	-2.9
BKB plants	..	..	*2.9*	*0.7*	*0.3*	*0.0*	*0.0*	-	*-23.9*
Blast furnaces	..	..	*-12.6*	*-6.4*	*-6.4*	*-7.3*	*-7.7*	-	*-2.9*
Coke ovens	..	..	*-12.4*	*-11.3*	*-10.7*	*-4.5*	*-5.5*	-	*-4.6*
Patent fuel plants	..	..	*0.4*	*-0.3*	*-0.1*	*-0.1*	*-0.1*	-	-
Other transformation(3)	..	..	-	-	-	-	-	-	-
Own use	**..**	**..**	**-5.3**	**-3.5**	**-2.7**	**-2.6**	**-2.6**	**-**	**-4.1**
Distribution losses	**..**	**..**	**-**	**-**	**-**	**-0.0**	**-0.0**	**x**	**x**
Final consumption(4)	**..**	**..**	**36.6**	**18.2**	**14.2**	**17.5**	**18.5**	**-**	**-3.9**
Industry sector(5)	..	..	25.7	11.3	10.4	12.7	14.2	-	-3.4
Iron and steel	..	..	*15.6*	*8.4*	*8.1*	*10.8*	*12.0*	-	*-1.5*
Chemical	..	..	*0.3*	*-*	*-*	*0.0*	*0.0*	-	*-12.9*
Non-metallic minerals	..	..	*0.0*	*0.0*	*0.0*	*0.2*	*0.5*	-	*16.4*
Paper, pulp and print	..	..	*-*	*-*	*-*	*0.0*	*0.0*	-	-
Transport sector(6)	..	..	0.1	-	-	0.0	0.1	-	-3.3
Other sectors(7)	..	..	10.8	6.9	3.8	3.1	2.5	-	-8.3
Comm. and pub. services	..	..	*-*	*-*	*-*	*0.5*	*0.4*	-	-
Residential	..	..	*7.9*	*6.4*	*3.7*	*2.6*	*2.1*	-	*-7.6*
Non-energy use	..	..	-	-	-	1.7	1.7	-	-

Source: *IEA/OECD Energy Balances of Non-OECD Countries*

(1) Main activity electricity and heat generation includes district heating.

(2) Coal transformation refers to the transformation of coal to secondary and tertiary products (mainly coke, briquettes, coke oven gas and blast furnace gas).

(3) Other transformation includes liquefaction and non-specified transformation.

(4) Final Consumption includes non-energy use and energy use (industry, transport and other sectors).

(5) Please refer to notes in *Principles and Definitions* .

(6) Transport sector includes rail and inland waterways.

(7) Other sectors include commercial and public services, agriculture, and residential.

* "Coal" refers to all types of coal, primary (anthracite, coking coal, other bituminous coal, sub-bituminous coal, lignite/brown coal, peat) and derived fuels (including patent fuel, BKB/peat briquettes, coke oven coke, gas coke, coal tar, coke oven gas, gas works gas, blast furnace gas and oxygen steel furnace gas). Quantities have been converted to Mtce using calorific values reported by the respective countries. Please refer to notes in Principles and Definitions for further information.

Ukraine

HARD COAL IMPORTS BY ORIGIN*

(thousand tonnes)

	1978[1]	1980	1985	1990	1995	2000	2006	2007	2008
Hard coal	**-**	**-**	**-**	**26686**	**15296**	**6606**	**9754**	**11863**	**10275**
Coking Coal	**-**	**-**	**-**	**19964**	**5859**	**2759**	**7761**	**8177**	**7378**
Australia	-	-	-	-	-	-	-	-	74
Canada	-	-	-	-	-	-	-	-	-
Czech Republic	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-
Poland	-	-	-	-	4369	595	-	-	32
United Kingdom	-	-	-	-	-	-	-	-	-
United States	-	-	-	-	-	-	-	-	860
Other OECD	-	-	-	-	-	-	-	-	-
China, People's Rep.	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-
South Africa	-	-	-	-	-	-	-	-	-
Former USSR[2]	-	-	-	-	-	-	-	-	-
Russia [3]	*-*	*-*	*-*	*19964*	*-*	*2164*	*7761*	*7505*	*6412*
Other former USSR [3]	*-*	*-*	*-*	*-*	*1490*	*-*	*-*	*672*	*-*
Venezuela	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-
Non-specified/other	-	-	-	-	-	-	-	-	-
Steam Coal	**-**	**-**	**-**	**6722**	**9437**	**3847**	**1993**	**3686**	**2897**
Australia	-	-	-	-	-	-	-	-	-
Canada	-	-	-	-	-	-	-	-	-
Czech Republic	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-
Poland	-	-	-	-	4722	452	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-
United States	-	-	-	-	-	-	-	-	-
Other OECD	-	-	-	-	-	-	-	-	-
China, People's Rep.	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-
South Africa	-	-	-	-	-	-	127	-	-
Former USSR[2]	-	-	-	-	-	-	-	-	-
Russia [3]	*-*	*-*	*-*	*6722*	*4259*	*2175*	*1866*	*3649*	*2897*
Other former USSR [3]	*-*	*-*	*-*	*-*	*456*	*1220*	*-*	*37*	*-*
Venezuela	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-
Non-specified/other	-	-	-	-	-	-	-	-	-

Source: IEA/OECD Coal Statistics.

(1) Earliest year for which split by coal type is available.

(2) If no detail.

(3) Data for former Republics are not available separately for some countries.

* In these tables coal used for PCI and for blending has been classified by the IEA as steam coal. Accordingly, trade data reported in these tables may differ from those reported in Part III where this coal is shown as coking coal to be consistent with data reported by importing countries and with industry terminology and practice.

Ukraine

COKING COAL EXPORTS BY DESTINATION

(thousand tonnes)

	1978[1]	1980	1985	1990	1995	2000	2006	2007	2008
Total Exports	**-**	**-**	**-**	**8114**	**400**	**200**	**530**	**408**	**40**
Exports to:									
Total OECD	**-**	**-**	**-**	**-**	**-**	**-**	**530**	**-**	**30**
Austria	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-
Canada	-	-	-	-	-	-	-	-	-
Czech Republic	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-
Greece	-	-	-	-	-	-	-	-	-
Hungary	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-
Japan	-	-	-	-	-	-	-	-	-
Korea	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	17
Norway	-	-	-	-	-	-	-	-	-
Poland	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-
Turkey	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-
United States	-	-	-	-	-	-	-	-	-
Other OECD[2]	-	-	-	-	-	-	530	-	13
Total Non-OECD	**-**	**-**	**-**	**8114**	**400**	**200**	**-**	**408**	**10**
Brazil	-	-	-	-	-	-	-	-	-
Bulgaria	-	-	-	-	200	-	-	-	10
Chile	-	-	-	-	-	-	-	-	-
China, People's Rep.	-	-	-	-	-	-	-	-	-
Chinese Taipei	-	-	-	-	-	-	-	-	-
Hong Kong, China	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-
Israel	-	-	-	-	-	-	-	-	-
Morocco	-	-	-	-	-	-	-	-	-
Romania	-	-	-	-	200	-	-	83	-
Russia	-	-	-	8114	-	200	-	-	-
Ukraine	-	-	-	-	-	-	-	-	-
Other Africa	-	-	-	-	-	-	-	-	-
Other Asia	-	-	-	-	-	-	-	-	-
Other Eastern Europe	-	-	-	-	-	-	-	-	-
Other FSU	-	-	-	-	-	-	-	325	-
Other Latin America	-	-	-	-	-	-	-	-	-
Other Middle East	-	-	-	-	-	-	-	-	-
Non-Specified/Other	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**

Source: IEA/OECD Coal Statistics.

(1) Earliest year for which split by coal type is available.

(2) Australia, Iceland, Ireland, Luxembourg, New Zealand, Slovak Republic and Switzerland.

Ukraine

STEAM COAL EXPORTS BY DESTINATION

(thousand tonnes)

	1978[1]	1980	1985	1990	1995	2000	2006	2007	2008
Total Exports	**-**	**-**	**-**	**16577**	**2000**	**2297**	**2925**	**2943**	**4232**
Exports to:									
Total OECD	**-**	**-**	**-**	**-**	**493**	**845**	**298**	**1192**	**1318**
Austria	-	-	-	-	-	-	5	5	52
Belgium	-	-	-	-	29	63	5	228	180
Canada	-	-	-	-	-	-	-	27	17
Czech Republic	-	-	-	-	1	-	-	-	4
Denmark	-	-	-	-	1	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-
France	-	-	-	-	21	-	4	-	5
Germany	-	-	-	-	-	-	3	21	24
Greece	-	-	-	-	-	-	4	16	41
Hungary	-	-	-	-	6	-	32	50	13
Italy	-	-	-	-	22	83	14	271	313
Japan	-	-	-	-	-	-	-	-	-
Korea	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	38	19	30
Norway	-	-	-	-	-	-	-	-	-
Poland	-	-	-	-	33	-	12	149	317
Portugal	-	-	-	-	-	-	26	8	-
Spain	-	-	-	-	-	52	22	105	275
Sweden	-	-	-	-	-	-	-	-	2
Turkey	-	-	-	-	154	647	60	229	-
United Kingdom	-	-	-	-	-	-	-	1	-
United States	-	-	-	-	-	-	-	45	34
Other OECD[2]	-	-	-	-	226	-	73	18	11
Total Non-OECD	**-**	**-**	**-**	**16577**	**1507**	**1452**	**2627**	**1751**	**2914**
Brazil	-	-	-	-	-	-	19	-	31
Bulgaria	-	-	-	-	154	-	2337	1451	2735
Chile	-	-	-	-	-	-	-	-	-
China, People's Rep.	-	-	-	-	-	-	-	-	-
Chinese Taipei	-	-	-	-	-	-	-	-	-
Hong Kong, China	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-
Israel	-	-	-	-	-	-	-	-	-
Morocco	-	-	-	-	-	-	-	-	-
Romania	-	-	-	-	128	-	202	40	123
Russia	-	-	-	16577	235	1452	9	15	-
Ukraine	-	-	-	-	-	-	-	-	-
Other Africa	-	-	-	-	-	-	24	52	-
Other Asia	-	-	-	-	-	-	-	-	-
Other Eastern Europe	-	-	-	-	84	-	-	13	23
Other FSU	-	-	-	-	906	-	24	101	2
Other Latin America	-	-	-	-	-	-	12	79	-
Other Middle East	-	-	-	-	-	-	-	-	-
Non-Specified/Other	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**

Source: IEA/OECD Coal Statistics.

(1) Earliest year for which split by coal type is available.

(2) Australia, Iceland, Ireland, Luxembourg, New Zealand, Slovak Republic and Switzerland.

Venezuela

COAL BALANCE*

(Mtce)

	1980	1985	1990	1995	2000	2006	2007	Average annual percent change 80-90	90-07
Production	0.0	0.0	2.3	4.2	8.2	7.7	8.0	48.5	7.6
Imports	0.2	0.2	0.3	-	-	-	-	4.9	-
Exports	-	-	-1.9	-4.4	-8.3	-7.6	-7.7	-	8.5
Stock changes	-	0.0	-	0.2	0.2	-	-0.2	x	x
Primary supply	**0.2**	**0.3**	**0.7**	**0.0**	**0.2**	**0.1**	**0.1**	**11.4**	**-12.8**
Statistical difference	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**x**	**x**
Total transformation	**-0.1**	**-0.1**	**-0.2**	**-**	**-**	**-**	**-**	**6.1**	**-**
Electricity and heat gen.	-	-	-	-	-	-	-	-	-
Main activity producers (1)	-	-	-	-	-	-	-	-	-
Autoproducers	-	-	-	-	-	-	-	-	-
Gas works	-	-	-	-	-	-	-	-	-
Coal transformation(2)	-0.1	-0.1	-0.2	-	-	-	-	6.1	-
BKB plants	-	-	-	-	-	-	-	-	-
Blast furnaces	*-0.1*	*-0.1*	*-0.1*	-	-	-	-	*5.4*	-
Coke ovens	-	-	*-0.0*	-	-	-	-	-	-
Patent fuel plants	-	-	-	-	-	-	-	-	-
Other transformation(3)	-	-	-	-	-	-	-	-	-
Own use	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
Distribution losses	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**x**	**x**
Final consumption(4)	**0.1**	**0.2**	**0.5**	**0.0**	**0.2**	**0.1**	**0.1**	**13.9**	**-11.4**
Industry sector(5)	0.1	0.2	0.5	0.0	0.2	0.1	0.1	13.9	-11.4
Iron and steel	*0.1*	*0.1*	*0.2*	-	-	-	-	*5.4*	-
Chemical	-	-	-	-	-	-	-	-	-
Non-metallic minerals	*0.0*	*0.0*	*0.3*	*0.0*	*0.2*	*0.1*	*0.1*	*23.0*	*-9.4*
Paper, pulp and print	-	-	-	-	-	-	-	-	-
Transport sector(6)	-	-	-	-	-	-	-	-	-
Other sectors(7)	-	-	-	-	-	-	-	-	-
Comm. and pub. services	-	-	-	-	-	-	-	-	-
Residential	-	-	-	-	-	-	-	-	-
Non-energy use	-	-	-	-	-	-	-	-	-

Source: *IEA/OECD Energy Balances of Non-OECD Countries*

(1) Main activity electricity and heat generation includes district heating.

(2) Coal transformation refers to the transformation of coal to secondary and tertiary products (mainly coke, briquettes, coke oven gas and blast furnace gas).

(3) Other transformation includes liquefaction and non-specified transformation.

(4) Final Consumption includes non-energy use and energy use (industry, transport and other sectors).

(5) Please refer to notes in *Principles and Definitions* .

(6) Transport sector includes rail and inland waterways.

(7) Other sectors include commercial and public services, agriculture, and residential.

* "Coal" refers to all types of coal, primary (anthracite, coking coal, other bituminous coal, sub-bituminous coal, lignite/brown coal, peat) and derived fuels (including patent fuel, BKB/peat briquettes, coke oven coke, gas coke, coal tar, coke oven gas, gas works gas, blast furnace gas and oxygen steel furnace gas). Quantities have been converted to Mtce using calorific values reported by the respective countries. Please refer to notes in Principles and Definitions for further information.

Venezuela

STEAM COAL EXPORTS BY DESTINATION

(thousand tonnes)

	1978[1]	1980	1985	1990	1995	2000	2006	2007	2008
Total Exports	**33**	**-**	**-**	**1834**	**3252**	**7722**	**7284**	**8335**	**6445**
Exports to:									
Total OECD	**-**	**-**	**-**	**1746**	**3152**	**6988**	**6583**	**6826**	**5322**
Austria	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	1	17	-	44	134	104
Canada	-	-	-	33	-	589	441	611	26
Czech Republic	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	53	-
Finland	-	-	-	148	29	-	-	-	-
France	-	-	-	560	550	441	437	457	458
Germany	-	-	-	-	193	476	104	148	81
Greece	-	-	-	-	-	-	-	-	-
Hungary	-	-	-	-	-	-	-	-	-
Italy	-	-	-	140	302	1067	197	362	429
Japan	-	-	-	-	-	-	-	-	-
Korea	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	112	10	-	51
Netherlands	-	-	-	19	79	766	940	1156	1733
Norway	-	-	-	5	-	-	-	-	-
Poland	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	306	-	-	52	-
Spain	-	-	-	53	-	378	148	260	213
Sweden	-	-	-	375	198	180	-	-	11
Turkey	-	-	-	-	-	35	-	379	38
United Kingdom	-	-	-	169	-	218	36	64	8
United States	-	-	-	238	1478	2726	4226	3150	2170
Other OECD[2]	-	-	-	5	-	-	-	-	-
Total Non-OECD	**33**	**-**	**-**	**88**	**100**	**734**	**701**	**1509**	**1123**
Brazil	33	-	-	-	100	79	489	943	837
Bulgaria	-	-	-	-	-	-	-	-	-
Chile	-	-	-	-	-	168	-	68	-
China, People's Rep.	-	-	-	-	-	-	-	-	-
Chinese Taipei	-	-	-	-	-	-	-	-	-
Hong Kong, China	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-
Israel	-	-	-	-	-	71	-	50	-
Morocco	-	-	-	-	-	-	26	102	26
Romania	-	-	-	-	-	-	39	-	-
Russia	-	-	-	-	-	-	-	-	-
Ukraine	-	-	-	-	-	-	-	-	-
Other Africa	-	-	-	-	-	-	-	-	-
Other Asia	-	-	-	-	-	-	-	-	-
Other Eastern Europe	-	-	-	-	-	-	-	99	-
Other FSU	-	-	-	-	-	-	-	-	-
Other Latin America	-	-	-	88	-	416	147	247	260
Other Middle East	-	-	-	-	-	-	-	-	-
Non-Specified/Other	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**

Source: IEA/OECD Coal Statistics.

(1) Earliest year for which split by coal type is available.

(2) Australia, Iceland, Ireland, Luxembourg, New Zealand, Slovak Republic and Switzerland.

Vietnam

COAL BALANCE*

(Mtce)

	1980	1985	1990	1995	2000	2006	2007	Average annual percent change 80-90	90-07
Production	4.2	4.5	3.7	6.7	9.3	31.1	34.8	-1.1	14.1
Imports	0.0	0.0	0.0	0.0	-	0.1	0.6	2.1	24.9
Exports	-0.5	-0.5	-0.6	-2.3	-2.6	-17.1	-25.5	2.1	24.3
Stock changes	-0.4	-	0.1	0.3	-0.4	-1.2	4.2	x	x
Primary supply	**3.2**	**4.0**	**3.2**	**4.7**	**6.2**	**12.9**	**14.1**	**-0.2**	**9.2**
Statistical difference	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**x**	**x**
Total transformation	**-1.1**	**-1.4**	**-1.3**	**-1.0**	**-1.6**	**-5.0**	**-5.2**	**1.6**	**8.6**
Electricity and heat gen.	-1.1	-1.4	-1.3	-1.0	-1.6	-5.0	-5.2	1.6	8.7
Main activity producers (1)	*-1.1*	*-1.4*	*-1.3*	*-1.0*	*-1.6*	*-4.4*	*-4.6*	*1.6*	*7.8*
Autoproducers	-	-	-	-	-	*-0.6*	*-0.6*	-	-
Gas works	-	-	-	-	-	-	-	-	-
Coal transformation(2)	-0.0	-0.0	-0.0	-0.0	-	-	-	7.1	-
BKB plants	-	-	-	-	-	-	-	-	-
Blast furnaces	*-0.0*	*-0.0*	*-0.0*	*-0.0*	-	-	-	*7.1*	-
Coke ovens	-	-	-	-	-	-	-	-	-
Patent fuel plants	-	-	-	-	-	-	-	-	-
Other transformation(3)	-	-	-	-	-	-	-	-	-
Own use	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
Distribution losses	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**x**	**x**
Final consumption(4)	**2.2**	**2.6**	**1.9**	**3.7**	**4.6**	**7.9**	**8.9**	**-1.3**	**9.5**
Industry sector(5)	1.3	2.1	1.5	2.8	3.3	6.0	7.0	0.9	9.6
Iron and steel	*0.0*	*0.0*	*0.0*	*0.0*	-	-	-	*5.9*	-
Chemical	-	-	-	-	-	-	-	-	-
Non-metallic minerals	-	-	-	-	-	-	-	-	-
Paper, pulp and print	-	-	-	-	-	-	-	-	-
Transport sector(6)	0.1	0.1	0.0	0.0	-	-	-	-13.9	-
Other sectors(7)	0.7	0.4	0.4	0.9	1.3	1.9	1.9	-5.6	9.5
Comm. and pub. services	-	-	*0.0*	*0.2*	*0.4*	*0.5*	*0.5*	-	*18.2*
Residential	*0.5*	*0.4*	*0.3*	*0.6*	*0.8*	*1.4*	*1.4*	*-4.8*	*9.8*
Non-energy use	-	-	-	-	-	-	-	-	-

Source: *IEA/OECD Energy Balances of Non-OECD Countries*

(1) Main activity electricity and heat generation includes district heating.

(2) Coal transformation refers to the transformation of coal to secondary and tertiary products (mainly coke, briquettes, coke oven gas and blast furnace gas).

(3) Other transformation includes liquefaction and non-specified transformation.

(4) Final Consumption includes non-energy use and energy use (industry, transport and other sectors).

(5) Please refer to notes in *Principles and Definitions* .

(6) Transport sector includes rail and inland waterways.

(7) Other sectors include commercial and public services, agriculture, and residential.

* "Coal" refers to all types of coal, primary (anthracite, coking coal, other bituminous coal, sub-bituminous coal, lignite/brown coal, peat) and derived fuels (including patent fuel, BKB/peat briquettes, coke oven coke, gas coke, coal tar, coke oven gas, gas works gas, blast furnace gas and oxygen steel furnace gas). Quantities have been converted to Mtce using calorific values reported by the respective countries. Please refer to notes in Principles and Definitions for further information.

Vietnam

STEAM COAL EXPORTS BY DESTINATION

(thousand tonnes)

	1978[1]	1980	1985	1990	1995	2000	2006	2007	2008
Total Exports	**1430**	**640**	**604**	**745**	**2821**	**3526**	**25128**	**30931**	**20604**
Exports to:									
Total OECD	**-**	**100**	**100**	**450**	**2308**	**3203**	**4603**	**5572**	**3048**
Austria	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	93	240	105	222	92
Canada	-	-	-	-	100	-	-	-	-
Czech Republic	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	2	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-
France	-	-	-	-	179	100	123	87	48
Germany	-	-	-	-	3	52	-	-	-
Greece	-	-	-	-	-	-	-	-	-
Hungary	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-
Japan	-	100	100	150	1469	2227	3319	3968	1972
Korea	-	-	-	300	400	516	644	1295	916
Mexico	-	-	-	-	-	-	23	-	-
Netherlands	-	-	-	-	21	20	170	-	20
Norway	-	-	-	-	1	-	-	-	-
Poland	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	203	-	-
Sweden	-	-	-	-	-	-	-	-	-
Turkey	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	40	48	16	-	-
United States	-	-	-	-	-	-	-	-	-
Other OECD[2]	-	-	-	-	-	-	-	-	-
Total Non-OECD	**-**	**540**	**504**	**295**	**513**	**323**	**20525**	**25359**	**17556**
Brazil	-	-	-	-	100	88	125	54	160
Bulgaria	-	-	-	-	-	-	102	381	372
Chile	-	-	-	-	-	-	-	-	-
China, People's Rep.	-	540	504	100	150	27	20079	24611	16906
Chinese Taipei	-	-	-	-	63	52	43	17	22
Hong Kong, China	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	8	-	-
Israel	-	-	-	-	-	-	-	-	-
Morocco	-	-	-	-	-	-	-	-	-
Romania	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	-
Ukraine	-	-	-	-	-	-	-	-	-
Other Africa	-	-	-	-	-	-	-	-	-
Other Asia	-	-	-	195	200	156	168	296	96
Other Eastern Europe	-	-	-	-	-	-	-	-	-
Other FSU	-	-	-	-	-	-	-	-	-
Other Latin America	-	-	-	-	-	-	-	-	-
Other Middle East	-	-	-	-	-	-	-	-	-
Non-Specified/Other	**1430**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**

Source: IEA/OECD Coal Statistics.

(1) Earliest year for which split by coal type is available.

(2) Australia, Iceland, Ireland, Luxembourg, New Zealand, Slovak Republic and Switzerland.

Energy Data Manager / Statistician

Possible Staff Vacancies

International Energy Agency, Paris, France

The IEA

The International Energy Agency, based in Paris, acts as energy policy advisor to 28 member countries in their effort to ensure reliable, affordable and clean energy for their citizens. Founded during the oil crisis of 1973-74, the IEA's initial role was to co-ordinate measures in times of oil supply emergencies. As energy markets have changed, so has the IEA. Its mandate has broadened to incorporate the "Three E's" of balanced energy policy making: energy security, economic development and environmental protection. Current work focuses on climate change policies, market reform, energy technology collaboration and outreach to the rest of the world, especially major consumers and producers of energy like China, India, Russia and the OPEC countries.

The Energy Statistics Division, with a staff of around 30 people, provides a dynamic environment for young people just finishing their studies or with one to two years of work experience.

Job description

The data managers/statisticians compile, verify and disseminate information on all aspects of energy including production, transformation and consumption of all fuels, renewables, the emergency reporting system, energy efficiency indicators, CO_2 emissions, and energy prices and taxes. The data managers are responsible for receiving, reviewing and inputting data submissions from Member countries and other sources into large computerised databases. They check for completeness, correct calculations, internal consistency, accuracy and consistency with definitions. Often this entails proactively investigating and helping to resolve anomalies in collaboration with national administrations of Member and Non-Member countries. The data managers/statisticians also play a key role in helping to design and implement computer macros used in the preparation of their energy statistics publication(s).

Principal Qualifications

- University degree in a topic relevant to energy, computer programming or statistics. We currently have staff with degrees in Mathematics, Statistics, Information Technology, Economics, Engineering, Physics, Chemistry, Environmental Studies, Hydrology, Public Administration and Business.
- Experience in the basic use of databases and computer software. Good computer programming skills in Visual Basic.
- Ability to work accurately, pay attention to detail and work to deadlines. Ability to deal simultaneously with a wide variety of tasks and to organise work efficiently.
- Good communication skills; ability to work well in a team and in a multicultural environment, particularly in liaising with contacts in national administrations and industry.
- Very good knowledge of one of the two official languages of the Organisation (English or French). Knowledge of other languages would be an advantage.
- Some knowledge of energy industry operations and terminology would also be an advantage, but is not required.

Nationals of any OECD Member country are eligible for appointment. Basic salaries range from 2 900 to 3 900 Euros per month, depending on qualifications. The possibilities for advancement are good for candidates with appropriate qualifications and experience. Tentative enquiries about future vacancies are welcomed from men and women with relevant qualifications and experience. Applications in French or English, accompanied by a curriculum vitae, should be sent to:

Personnel and Finance Division
International Energy Agency
9 rue de la Fédération
75739 Paris Cedex 15, France
Email: recruitment@iea.org

On-Line Data Services

Users can instantly access not only all the data published in this book, but also all the time series used for preparing this publication and all the other statistics publications of the IEA. The data are available on-line, either through annual subscription or pay-per-view access. More information on this service can be found on our website: http://data.iea.org

Ten Annual Publications

Energy Statistics of OECD Countries, 2009 Edition

No other publication offers such in-depth statistical coverage. It is intended for anyone involved in analytical or policy work related to energy issues. It contains data on energy supply and consumption in original units for coal, oil, natural gas, combustible renewables/wastes and products derived from these primary fuels, as well as for electricity and heat. Complete data are available for 2006 and 2007 and supply estimates are available for the most recent year (*i.e.* 2008). Historical tables summarise data on production, trade and final consumption. Each issue includes definitions of products and flows and explanatory notes on the individual country data.

Published July 2009 - Price €120

Energy Balances of OECD Countries, 2009 Edition

A companion volume to *Energy Statistics of OECD Countries*, this publication presents standardised energy balances expressed in million tonnes of oil equivalent. Energy supply and consumption data are divided by main fuel: coal, oil, gas, nuclear, hydro, geothermal/solar, combustible renewables/wastes, electricity and heat. This allows for easy comparison of the contributions each fuel makes to the economy and their interrelationships through the conversion of one fuel to another. All of this is essential for estimating total energy supply, forecasting, energy conservation, and analysing the potential for interfuel substitution. Complete data are available for 2006 and 2007 and supply estimates are available for the most recent year (*i.e.* 2008). Historical tables summarise key energy and economic indicators as well as data on production, trade and final consumption. Each issue includes definitions of products and flows and explanatory notes on the individual country data as well as conversion factors from original units to tonnes of oil equivalent.

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Energy Statistics of Non-OECD Countries, 2009 Edition

This publication offers the same in-depth statistical coverage as the homonymous publication covering OECD countries. It includes data in original units for more than 100 individual countries and nine main regions. The consistency of OECD and non-OECD countries' detailed statistics provides an accurate picture of the global energy situation for 2006 and 2007. For a description of the content, please see *Energy Statistics of OECD Countries* above.

Published August 2009 - Price €120

Energy Balances of Non-OECD Countries, 2009 Edition

A companion volume to the publication *Energy Statistics of Non-OECD Countries*, this publication presents energy balances in million tonnes of oil equivalent and key economic and energy indicators for more than 100 individual countries and nine main regions. It offers the same statistical coverage as the homonymous publication covering OECD countries, and thus provides an accurate picture of the global energy situation for 2006 and 2007. For a description of the content, please see *Energy Balances of OECD Countries* above.

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Electricity Information 2009

This reference document provides essential statistics on electricity and heat for each OECD member country by bringing together information on production, installed capacity, input energy mix to electricity and heat production, input fuel prices, consumption, end-user electricity prices and electricity trades. The document also presents selected non-OECD country statistics on the main electricity and heat flows. It is an essential document for electricity and heat market and policy analysts.

Published August 2009 - Price €150

Coal Information 2009

This well-established publication provides detailed information on past and current evolution of the world coal market. It presents country-specific statistics for OECD member countries and selected non-OECD countries on coal production, demand, trade and prices. This publication represents a key reference tool for all those involved in the coal supply or consumption stream, as well as institutions and governments involved in market and policy analysis of the world coal market.

Published August 2009 - Price €165

Natural Gas Information 2009

A detailed reference work on gas supply and demand, covering not only the OECD countries but also the rest of the world. Contains essential information on LNG and pipeline trade, gas reserves, storage capacity and prices. The main part of the book, however, concentrates on OECD countries, showing a detailed gas supply and demand balance for each individual country and for the three OECD regions: North America, Europe and Asia-Pacific, as well as a breakdown of gas consumption by end-user. Import and export data are reported by source and destination.

Published August 2009 - Price €165

Oil Information 2009

A comprehensive reference book on current developments in oil supply and demand. The first part of this publication contains key data on world production, trade, prices and consumption of major oil product groups, with time series back to the early 1970s. The second part gives a more detailed and comprehensive picture of oil supply, demand, trade, production and consumption by end-user for each OECD country individually and for the OECD regions. Trade data are reported extensively by origin and destination.

Published August 2009 - Price €165

■ Renewables Information 2009

This reference document brings together in one volume essential statistics on renewables and waste energy sources. It presents a detailed and comprehensive picture of developments for renewable and waste energy sources for each of the OECD member countries, encompassing energy indicators, generating capacity, electricity and heat production from renewable and waste sources, as well as production and consumption of renewable and waste products. It also includes a selection of indicators for non-OECD countries. This report provides a strong foundation for renewables energy policy and market analysis to assess progress towards domestic and international objectives.

Published August 2009 - Price €110

■ CO_2 Emissions from Fuel Combustion, 2009 Edition

In order for nations to tackle the problem of climate change, they need accurate greenhouse gas emissions data. This publication provides a basis for comparative analysis of CO_2 emissions from fossil fuel combustion, a major source of anthropogenic emissions. The data in this book are designed to assist in understanding the evolution of the emissions of CO_2 from 1971 to 2007 for more than 140 countries and regions by sector and by fuel. Emissions were calculated using IEA energy databases and the default methods and emissions factors from the *Revised 1996 IPCC Guidelines for National Greenhouse Gas Inventories*.

Published November 2009 - Price €165

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■ Oil, Gas, Coal and Electricity, Quarterly Statistics

This publication provides up-to-date, detailed quarterly statistics on oil, coal, natural gas and electricity for the OECD countries. Oil statistics cover production, trade, refinery intake and output, stock changes and consumption for crude oil, NGL and nine selected oil product groups. Statistics for electricity, natural gas and coal show supply and trade. Import and export data are reported by origin and destination. Moreover, oil as well as hard coal and brown coal production are reported on a worldwide basis.

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COAL
INFORMATION

2009

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