

Economy and Use of Environmental Resources

Tables on Environmental-Economic Accounting Part 2: Energy



Edition 2014

Periodicity: yearly
Published in January 2015
Article number: 5850020147006

You may contact us at:
www.destatis.de/Contact
Telephone: +49 (0) 611 / 75 45 85

© Statistisches Bundesamt, Wiesbaden 2015

Reproduction and free distribution, also of parts, are permitted provided that the source is mentioned.

Table of contents

Part 1	Chapter 1	Macroeconomic overview tables
	Chapter 2	Economic indices

Part 2 Chapter 3 Energy

Introduction
General notes
Glossary

3.1 Primary energy economy wide

- 3.1.1 Supply and use of energy - aggregate and indices
- 3.1.2 Supply and use of energy and consumption of primary energy according to different concepts (terajoules)

3.2 Energy consumption

- 3.2.1 Energy consumption by energy sources - residents concept (terajoules)
- 3.2.2 Energy consumption by homogeneous branches and private households - residents concept (terajoules)
- 3.2.3 Energy consumption of homogeneous branches and private households by type of energy sources
 - 3.2.3.1 Energy consumption of homogeneous branches by type of energy sources 2000 (terajoules)
 - 3.2.3.2 Energy consumption of homogeneous branches by type of energy sources 2005 (terajoules)
 - 3.2.3.3 Energy consumption of homogeneous branches by type of energy sources 2012 (terajoules)
- 3.2.4 Transformation sectors: transformation input and output
- 3.2.5 Generation of electricity: consumption of fuels and gross generation of electricity by type of power stations
- 3.2.6 Generation of electricity and input of fuels by type of energy sources

3.3 Consumption of primary energy by homogeneous branches and private households

- 3.3.1 Consumption of primary energy (transformation losses and own use of energy of electrical power stations allocated to final users of electricity and heat (terajoules)
- 3.3.2 Intensity of primary energy consumption (energy consumption including transformation losses and internal use of energy sectors) (2005 = 100)
- 3.3.3 Allocation of transformation losses and energy consumption of power stations to final users of electricity and heat
 - 3.3.3.1 Allocation of transformation losses to final use sectors (terajoules)
 - 3.3.3.2 Allocation of transformation losses and consumption of power stations to users (terajoules)
- 3.3.4 Consumption of primary energy (transformation losses and internal consumption of energy of electrical power stations allocated within the energy sector) (terajoules)
- 3.3.5 Intensity of primary energy consumption - transformation losses not allocated) (2005= 100)
- 3.3.6 Energy consumption of private households (temperature adjusted)
 - 3.3.6.1 Energy consumption of private households by energy sources and by application areas
 - 3.3.6.2 Energy consumption of private households for housing
 - 3.3.6.3 Energy consumption of private households for housing
 - 3.3.6.4 Energy consumption of private households for housing
 - 3.3.6.5 Total CO₂ emissions of private households - direct and indirect
 - 3.3.6.6 Energy consumption for heating by household size
 - 3.3.6.7 Energy consumption for heating by type of buildings and by energy sources

3.4 Cumulative consumption of primary energy including domestic and non-domestic intermediate consumption

- 3.4.1 Total supply of energy and embodied energy of goods by final use categories
- 3.4.2 Embodied energy of goods for final use 2010
- 3.4.3 Energy consumption of industries on the national territory and abroad at the production of goods for final use 2010

3.5 Emission-relevant energy consumption

- 3.5.1 Emission-relevant domestic energy consumption by homogeneous branches and private households (terajoules)
- 3.5.2 Emission-relevant energy consumption by homogeneous branches and private households by type of energy sources
 - 3.5.2.1 Emission-relevant energy consumption by type of energy sources 2000 (terajoules)
 - 3.5.2.2 Emission-relevant energy consumption by type of energy sources 2005 (terajoules)
 - 3.5.2.3 Emission-relevant energy consumption by type of energy sources 2012 (terajoules)
- 3.5.3 Emission-relevant energy consumption of industries and private households (terajoules)

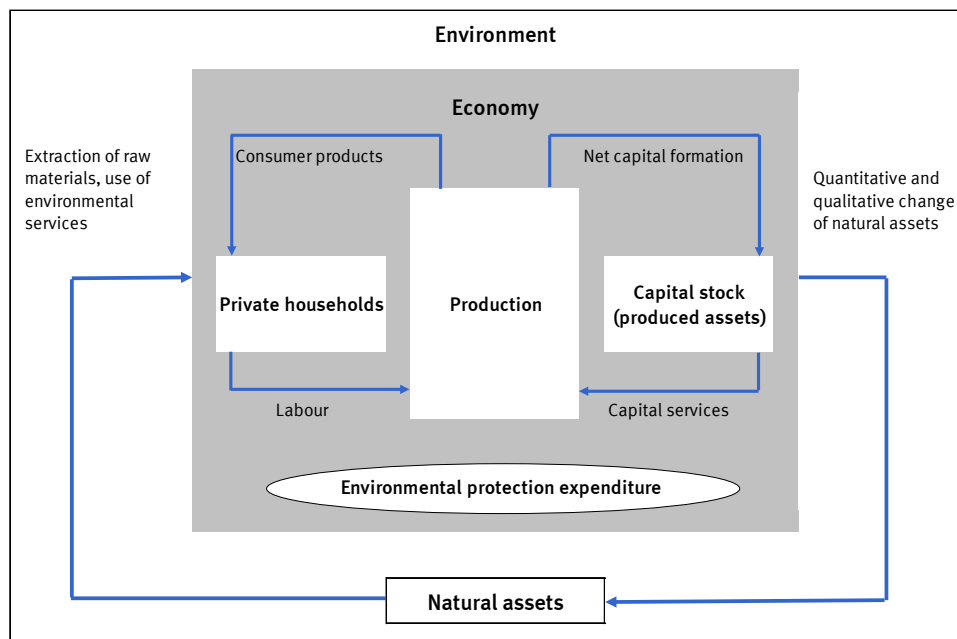
<i>Part 3</i>	<i>Chapter 4</i>	<i>Air emissions</i>
<i>Part 4</i>	<i>Chapter 5</i>	<i>Raw materials</i>
	<i>Chapter 6</i>	<i>Use of water</i>
	<i>Chapter 7</i>	<i>Waste water</i>
	<i>Chapter 8</i>	<i>Waste</i>
<i>Part 5</i>	<i>Chapter 9</i>	<i>Land use</i>
	<i>Chapter 10</i>	<i>Environmental protection measures</i>
<i>Part 6</i>	<i>Chapter 11</i>	<i>Transport and the environment</i>
	<i>Chapter 12</i>	<i>Agriculture and the environment</i>
	<i>Chapter 13</i>	<i>Forest accounting</i>

1 Environmental-Economic Accounting of the Federal Statistical Office

Environmental-Economic Accounting (EEA) describes the **interrelationship between the economy and the environment**. For its economic activities, production and consumption an economy not only uses labour and produced assets but also natural assets. Natural assets include raw materials such as sources of energy, ores, other minerals and water as well as land that serves as a location for production, consumption and various leisure activities. These parts of natural assets are used directly. Other components of natural assets are ecosystems and other natural systems such as the atmosphere. They support economic activities by absorbing and eliminating residues and pollutants arising from production and consumption, such as atmospheric emissions, waste and effluent.

Figure 1 shows the interrelationship between economy¹ and environment. On the one hand natural assets are used as input for the economic process. On the other hand the economy discharges residues and pollutants.

Figure 1: Interrelationship economy environment



The use of natural assets – similar to the produced capital stock – generally involves depletion, which means that the burden or **impact on the environment** causes changes in its state and/or natural assets. On the one hand, these changes are of a quantitative nature (e.g. a decreasing amount of non-renewable raw materials); on the other, they have many qualitative aspects (deteriorating air quality due to emissions of pollutants, diminished biodiversity etc.). Attempts are being made to prevent these negative changes with targeted, appropriate environmental protection measures, such as by avoiding environmental burden (e.g. desulphurising flue gas) or remedying damage that has already been done (e.g. cleaning up polluted sites). The interdependencies between the economy and the environment therefore are not restricted to showing the burdens on the environment; in fact the pattern also includes changes to the state of

¹ Both are shown in simplified form in the diagram.

Introduction

the environment brought about by pollution and the steps taken to avoid it or repair the damage.

The EEA aims to describe all three forms of interdependence between economy and environment – environmental burden, the environmental state and environmental measures. The description of these interdependencies takes as its starting point the fact, mentioned above, that a national economy not only uses labour and capital but also nature. Therefore, the basic idea is to take the commonly accepted definition of a national economy and expand it by a "factor nature". The System of National Accounts (SNA) provides a comprehensive and systematic definition of economic activity. Principally, they show monetary transactions (flows) and assets using standardised classifications. EEA were conceived as a satellite system for the national accounts, the objective of which is to extend the presentation of the economic process by a depiction of the interrelationship between the economic system and the environment. The environmental flows and inventories are almost always presented in physical units. For example, air emissions are expressed in tonnes, energy consumption in Terajoules, area used for transport and settlement purposes (land use) in square metres.

An important feature is the full compatibility of both systems – the national accounts and the EEA. The underlying concepts, definitions, distinctions, and classifications in both systems match as far as this is logically sensible and possible. This also applies and particularly so for the economic classifications used in the EEA and the SNA. Because of these common concepts, definitions, distinctions and classifications the results of the EEA can be linked internally and to the identically categorised SNA data and they can be analysed jointly. Compatibility with the national accounts permits for example to relate the environmental parameters, which are mostly shown in physical units (such as in tonnes), to the economic indices (in euros). Of particular importance here are the data on the efficiency of environmental use, expressed as an arithmetical ratio of the figure of interest (such as raw materials consumption) to the gross value added (GVA) or to the gross domestic product (GDP). With regard to the details of calculating productivities and intensities see the notes on the tables in Part 1.

The concept underlying the EEA is to express the status quo and the change in natural assets in units of money, so as to be able to determine what is known as corrected macro-economic aggregates, such as the ecological domestic product. Particularly insofar as such evaluations do not assess the quantitative decrease of resources, but refer to qualitative changes of other components, they are problematic in many respects with regard to the methods used (valuation/aggregation problems, restricted knowledge about correlation between cause and effect and considerable regional differences). That is why such calculations tend not to be carried out by the Federal Statistical Office but by scientific research institutes. Consequently, when presenting environmental pollution and the state of the environment EEA of the Federal Statistical Office is restricted to physical data.

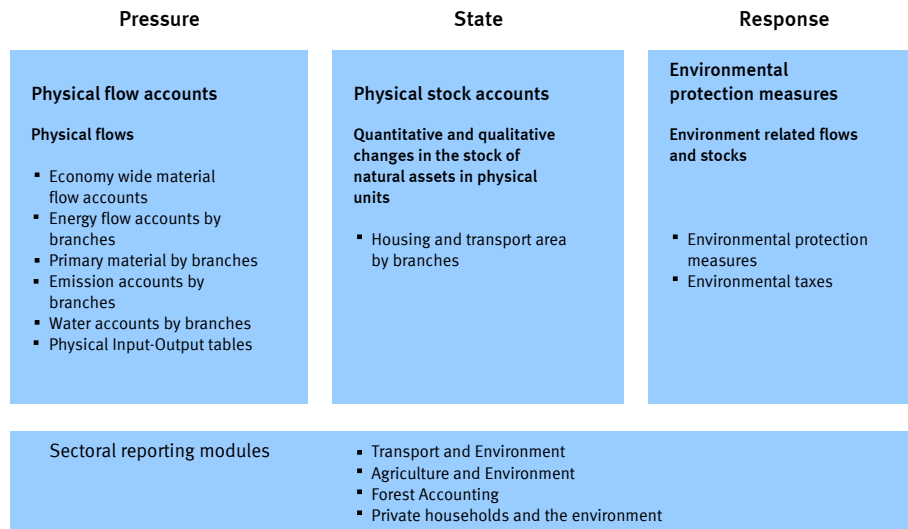
Environmental economic accounts and national accounts describe two dimensions of sustainable development – economy and environment – and their interrelationship. Therefore they provide an important and useful data base for political discussions concerning sustainability.

Figure 2 shows the different reporting **modules of the EEA** of the Federal Statistical Office. They reflect the internationally recognized pressure-state-response model, used to statistically show correlations between the environment and the economy. The **environmental pressures** reporting module shows the material flows listed behind it: the amount of raw materials extracted per year, the amount of pollutants emitted per year etc. This reporting module does not include produced goods or services, but raw materials extracted from nature and residual materials and hazardous substances emitted back into nature. The respective flows for each type of material are booked as

Introduction

consolidated quantities, in what is known as the material account, which charts the flows of material between a national economy and both the natural environment and the world's other national economies.

Figure 2: Modules of German Environmental-Economic Accounting



At present, the **state of the environment** reporting module of the German EEA only expresses the component of the natural capital presented by land area. Especially land use by housing and transport are in the focus of this reporting module. Looking at how much land area is used by which economic stakeholder, however, can not be realised for the time being. Landscapes and ecosystems form yet another essential component of the natural capital, which should principally be included by accounting. In Germany these aspect are dealt with by Agency for Nature Protection, not by environmental economic accounts. Displaying the stocks of mineral resources – a third aspect of the natural assets, which may be of great importance for countries rich in raw materials – has a fairly low priority as far as German EEA is concerned and has so far not been considered. A reporting module has so far only been developed for forest.

In the module **environmental protective measures**, components already included in the monetary transactions of the national accounts are shown separately and, as a rule, broken down further. Here, for example, environmentally relevant taxes, such as vehicle tax or fuel tax, are shown. Another important part of environmental protective measures consist of investment and ongoing expenditure for environmental protection in the government and manufacturing industry sectors, as well as privatised public enterprises. Contrary to the physical electric power accounts of the material and energy flow accounts and the physical asset accounts describing the state of the environment, the EEA shows the environmental protective measures in the form of monetary accounts.

The **sectoral reporting modules**, presently used for the transport, agriculture, forestry, and private households sectors, enable extending the EEA standard programme by single items for politically significant topics. For such sectors, these reporting modules provide a much more detailed picture of the complete range of interdependencies between the environment and the economy, across the EEA components mentioned above.

Typical of EEA is considering the environmental impact (removing raw materials, land use, services of the environment) of economic activities from two angles: the first question is to what extent an environmental factor enters the economic cycle or is adversely affected in production or consumption of private households. Apart from this it is however also important to know what quantities of environmental factors are being employed and for what final purpose. This second assessment not only assigns directly consumed factor components to a specific category of use (such as the consumption activities of private households), but also those quantities needed to manufacture all the goods consumed by the households (at all stages of the production process) and therefore consumed, as it were, "indirectly" by the households. This contrasting of **direct and indirect parameters** is comparable with the presentation of origin and use in the national accounts, and applies to numerous subjects of EEA.

"Upstream" indirect consumption cannot be derived from the accounting system directly. Allocation takes place through a model approach based on input-output tables (IOT). IOTs are central elements of the national accounts; they include details of the upstream interdependencies between the individual production sectors, to name just one example.

The concept of Environmental Economic Accounts was established and further developed at **international level** by the United Nations, in particular, and adopted in February 2012 as an international statistical standard "System of Integrated Environmental and Economic Accounting (SEEA Central Framework 2012)"². In Germany substantial sections of the environmental economic accounts are drawn up based on these conceptual proposals in the SEEA.

² European Commission/Food and Agriculture Organisation/International Monetary Fund/Organisation for Economic Co-Operation and Development/ United Nations/World Bank (2012): System of Environmental-Economic Accounting – Central Framework, White cover publication, pre-edited text subject to official editing.

2 Overview on classification

2.1 Classification of homogeneous branches

No.	Branches	Classification of products by activity (CPA) in the European Community	
		Designation	No.
1	Products of agriculture, forestry and fishing	Products of agriculture, forestry and fishing	A
2	Products of agriculture, hunting and related services	Products of agriculture, hunting and related services	01
3	Products of forestry, logging and related services	Products of forestry, logging and related services	02
4	Fish and other fishing products; aquaculture products	Fish and other fishing products; aquaculture products; support services to fishing	03
5	Mining and quarrying	Mining and quarrying	B
6	Coal and lignite	Coal and lignite	05
7	Crude petroleum and natural gas	Crude petroleum and natural gas	06
8	Metal ores, other mining and quarrying products	Metal ores, other mining and quarrying products; mining support services	07 – 09
9	Manufactured products	Manufactured products	C
10	Food products; beverages; tobacco products	Food products; beverages; tobacco products	10 – 12
11	Textiles; wearing apparel; leather and related products	Textiles; wearing apparel; leather and related products	13 – 15
12	Wood and products of wood and cork, except furniture	Wood and products of wood and cork, except furniture; articles of straw and plaiting materials	16
13	Paper and paper products	Paper and paper products	17
14	Printing and recording services	Printing and recording services	18
15	Coke and refined petroleum products	Coke and refined petroleum products	19
16	Coke oven products	Coke oven products	19.1
17	Refined petroleum products	Refined petroleum products	19.2
18	Chemicals and chemical products	Chemicals and chemical products	20
19	Basic pharmaceutical products and pharmaceutical preparations	Basic pharmaceutical products and pharmaceutical preparations	21

Introduction

No.	Branches	Classification of products by activity (CPA) in the European Community	
		Designation	No.
20	Rubber and plastic products	Rubber and plastic products	22
21	Other non-metallic mineral products	Other non-metallic mineral products	23
22	Glass and glass products	Glass and glass products	23.1
23	Refractory products, cut, shaped and finished stone	Refractory products; clay building materials; other porcelain and ceramic products; cement, lime and plaster; articles of concrete, cement and plaster; cut, shaped and finished stone; other non-metallic mineral products	23.2 – 23.9
24	Basic metals	Basic metals	24
25	Basic iron and steel and ferro-alloys, other products of steel	Basic iron and steel and ferro-alloys; tubes, pipes, hollow profiles and related fittings of steel; other products of the first processing of steel	24.1 – 24.3
26	Basic precious and other non-ferrous metals	Basic precious and other non-ferrous metals	24.4
27	Casting services of metal	Casting services of metal	24.5
28	Fabricated metal products, except machinery and equipment	Fabricated metal products, except machinery and equipment	25
29	Computer, electronic and optical products	Computer, electronic and optical products	26
30	Electrical equipment	Electrical equipment	27
31	Machinery and equipment n. e. c.	Machinery and equipment n. e. c.	28
32	Motor vehicles, trailers and semi-trailers	Motor vehicles, trailers and semi-trailers	29
33	Other transport equipment	Other transport equipment	30
34	Furniture, other manufacture goods	Furniture, other manufacture goods	31 – 32
35	Repair and installation services of machinery and equipment	Repair and installation services of machinery and equipment	33
36	Electricity, gas, steam and air conditioning	Electricity, gas, steam and air conditioning	D
37	Electricity, transmission and distribution services, steam	Electricity, transmission and distribution services; steam and air conditioning supply services	35.1, 35.3

Introduction

No.	Branches	Classification of products by activity (CPA) in the European Community	
		Designation	No.
38	Manufactured gas	Manufacture gas; distribution services of gaseous fuels through mains	35.2
39	Water supply; sewerage, waste management and remediation services	Water supply; sewerage, waste management and remediation services	E
40	Natural water; water treatment and supply services	Natural water; water treatment and supply services	36
41	Sewerage services; waste collection and material recovery services	Sewerage services; waste collection and material recovery services	37 – 39
42	Sewerage services, sewerage sludge	Sewerage services, sewerage sludge	37
43	Waste collection, treatment and disposal services	Waste collection, treatment and disposal services; materials recovery services; remediation services and other waste management services	38 – 39
44	Constructions and construction works	Constructions and construction works	F
45	Building and building construction works	Building and building construction works	41 – 42
46	Specialised construction works	Specialised construction works	43
47	Wholesale and retail trade services; repair services of motor vehicles	Wholesale and retail trade services; repair services of motor vehicles and motorcycles	G
48	Wholesale and retail trade and repair services of motor vehicles	Wholesale and retail trade and repair services of motor vehicles and motorcycles	45
49	Wholesale trade services, except of motor vehicles and motorcycles	Wholesale trade services, except of motor vehicles and motorcycles	46
50	Retail trade services, except of motor vehicles and motorcycles	Retail trade services, except of motor vehicles and motorcycles	47
51	Transportation and storage services	Transportation and storage services	H
52	Passenger rail transport services, freight rail transport services	Passenger rail transport services, interurban; freight rail transport services	49.1 – 49.2
53	Other passenger land transport services, transport services via pipeline	Other passenger land transport services; freight transport services by road and removal services; transport services via pipeline	49.3 – 49.5

Introduction

No.	Branches	Classification of products by activity (CPA) in the European Community	
		Designation	No.
54	Water transport services	Water transport services	50
55	Air transport services	Air transport services	51
56	Warehousing and support services for transportation	Warehousing and support services for transportation	52
57	Postal and courier services	Postal and courier services	53
58	Accommodation and food services	Accommodation and food services	I
59	Information and communication services	Information and communication services	J
60	Financial and insurance services	Financial and insurance services	K
61	Real estate services	Real estate services	L
62	Professional, scientific and technical services	Professional, scientific and technical services	M
63	Administrative and support services	Administrative and support services	N
64	Public administration and defence services	Public administration and defence services	O
65	Education services	Education services	P
66	Human health and social work services	Human health and social work services	Q
67	Other services	Arts, entertainment and recreation services; other services; services of households as employers; undifferentiated goods and services produced by households for own use	R – T
68	All homogeneous branches	All homogeneous branches	

Introduction

2.2 Classification of industries

No.	Industries	Classification of economic activities, 2008 edition	
		Designation	No.
1	Agriculture, forestry and fishing	Agriculture, forestry and fishing	A
2	Crop and animal production, hunting and related services	Crop and animal production, hunting and related services	01
3	Forestry and logging	Forestry and logging	02
4	Fishing and aquaculture	Fishing and aquaculture	03
5	Mining and quarrying	Mining and quarrying	B
6	Mining of coal and lignite	Mining of coal and lignite	05
7	Extraction of crude petroleum and natural gas	Extraction of crude petroleum and natural gas	06
8	Mining of metal ores, other mining and quarrying	Mining of metal ores; other mining and quarrying; mining support service activities	07 – 09
9	Manufacturing	Manufacturing	C
10	Manufacture of food products, beverages and tobacco products	Manufacture of food products; manufacture of beverages and manufacture tobacco products	10 – 12
11	Manufacture of textiles, wearing apparel, leather	Manufacture of textiles; manufacture of wearing apparel; manufacture of leather and related products	13 – 15
12	Manufacture of wood and products of wood and cork, except furniture	Manufacture of wood and of products of wood and cork, except furniture; manufacture of articles of straw and plaiting materials	16
13	Manufacture of paper and paper products	Manufacture of paper and paper products	17
14	Printing and reproduction of recorded media	Printing and reproduction of recorded media	18
15	Manufacture of coke and refined petroleum products	Manufacture of coke and refined petroleum products	19
16	Manufacture of coke oven products	Manufacture of coke oven products	19.1
17	Manufacture of refined petroleum products	Manufacture of refined petroleum products	19.2
18	Manufacture of chemicals and chemical products	Manufacture of chemicals and chemical products	20

Introduction

No.	Industries	Classification of economic activities, 2008 edition	
		Designation	No.
19	Manufacture of basic pharmaceutical products	Manufacture of basic pharmaceutical products and pharmaceutical preparations	21
20	Manufacture of rubber and plastic products	Manufacture of rubber and plastic products	22
21	Manufacture of other non-mineral products	Manufacture of other non-mineral products	23
22	Manufacture of glass and glass products	Manufacture of glass and glass products	23.1
23	Manufacture of refractory products, cutting, finishing of stone	Manufacture of refractory products; manufacture of clay building materials; manufacture of other porcelain and ceramic products; manufacture of cement, lime and plaster; manufacture of articles of concrete, cement and plaster; cutting, shaping and finishing of stone; manufacture of abrasive products and non-metallic mineral products n. e. c.	23.2 – 23.9
24	Manufacture of basic metals	Manufacture of basic metals	24
25	Iron and steel	Manufacture of basic iron and steel and ferro-alloys; manufacture of tubes, pipes, hollow profiles and related fittings of steel; manufacture of other products of first processing of steel	24.1 – 24.3
26	Manufacture of basic precious and non-ferrous metals	Manufacture of basic precious and other non-ferrous metals	24.4
27	Casting of metals	Casting of metals	24.5
28	Manufacture of fabricated metal products, except machinery	Manufacture of fabricated metal products, except machinery and equipment	25
29	Manufacture of computer, electronic and optical products	Manufacture of computer, electronic and optical products	26
30	Manufacture of electrical equipment	Manufacture of electrical equipment	27
31	Manufacture of machinery and equipment n. e. c.	Manufacture of machinery and equipment n. e. c.	28
32	Manufacture of motor vehicles, trailers and semi-trailers	Manufacture of motor vehicles, trailers and semi-trailers	29

Introduction

No.	Industries	Classification of economic activities, 2008 edition	
		Designation	No.
33	Manufacture of other transport equipment	Manufacture of other transport equipment	30
34	Manufacture of furniture; other manufacturing	Manufacture of furniture; other manufacturing	31 – 32
35	Repair and installation of machinery and equipment	Repair and installation of machinery and equipment	33
36	Electricity, gas, steam and air conditioning supply	Electricity, gas, steam and air conditioning	D
37	Electric power generation, transmission and distribution, steam	Electric power generation, transmission and distribution; steam and air conditioning supply	35.1/ 35.3
38	Manufacture of gas; distribution of gaseous fuels through mains	Manufacture of gas; distribution of gaseous fuels through mains	35.2
39	Water supply, sewerage, waste management and remediation activities	Water supply, sewerage, waste management and remediation activities	E
40	Water collection, treatment and supply	Water collection, treatment and supply	36
41	Sewerage, waste collection, treatment and disposal activities	Sewerage, waste collection, treatment and disposal activities; material recovery; remediation activities and other waste management services	37 – 39
42	Sewerage	Sewerage	37
43	Waste collection, treatment and disposal activities	Waste collection, treatment and disposal activities; material recovery; remediation activities and other waste management services	38 – 39
44	Construction	Construction	F
45	Construction of buildings, civil engineering	Construction of buildings, civil engineering	41 – 42
46	Specialised construction activities	Specialised construction activities	43
47	Wholesale and retail trade; repair of motor vehicles and motorcycles	Wholesale and retail trade; repair of motor vehicles and motorcycles	G
48	Wholesale and retail trade and repair of motor vehicles	Wholesale and retail trade and repair of motor vehicles and motorcycles	45
49	Wholesale trade, except of motor vehicles and motorcycles	Wholesale trade, except of motor vehicles and motorcycles	46

Introduction

No.	Industries	Classification of economic activities, 2008 edition	
		Designation	No.
50	Retail trade, except of motor vehicles and motorcycles	Retail trade, except of motor vehicles and motorcycles	47
51	Transportation and storage	Transportation and storage	H
52	Passenger rail transport, interurban; freight rail transport	Passenger rail transport, interurban; freight rail transport	49.1 – 49.2
53	Other passenger land transport; transport via pipeline	Other passenger land transport; freight transport by road and removal services; transport via pipeline	49.3 – 49.5
54	Water transport	Water transport	50
55	Air transport	Air transport	51
56	Warehousing and support activities for transportation	Warehousing and support activities for transportation	52
57	Postal and courier activities	Postal and courier activities	53
58	Accommodation and food service activities	Accommodation and food service activities	I
59	Information and communication	Information and communication	J
60	Financial and insurance activities	Financial and insurance activities	K
61	Real estate activities	Real estate activities	L
62	Professional, scientific and technical activities	Professional, scientific and technical activities	M
63	Administration and support service activities	Administration and support service activities	N
64	Public administration and defence; compulsory social security	Public administration and defence; compulsory social security	O
65	Education	Education	P
66	Human health and social work activities	Human health and social work activities	Q
67	Other service activities	Arts, entertainment and recreation; other service activities; activities of households and employers; undifferentiated goods and service producing activities of households for own use	R – T
68	All industries	All industries	

3 Abbreviations and symbols

Abbreviations – general

NH ₃	=	ammonia
CH ₄	=	methane
CO ₂	=	carbon dioxide
NO ₂	=	nitrogen dioxide
NO _x	=	nitric oxides (= nitrogen dioxide + nitrogen monoxide)
N ₂ O	=	nitrous oxide (= laughing gas)
NMVO	=	volatile organic compounds (not including methane)
SO ₂	=	sulphur dioxide
SF ₆	=	sulphur hexafluoride
PFCs	=	perfluorocarbons
HFCs	=	hydrofluorocarbons
H ₂ O	=	water
NE	=	Non-ferrous metals
No.	=	number
Incl.	=	including
EB	=	Energy balance
EEA	=	Environmental-Economic Accounting
SNA	=	System of National Accounts

Abbreviations – units of measure

Equ.	=	equivalent		
EUR	=	Euro		
J	=	Joule	1 J	= 1 watt seconds (Ws)
kJ	=	kilojoules	1 kJ	= 10 ³ J
MJ	=	megajoules	1 MJ	= 10 ⁶ J
GJ	=	gigajoules	1 GJ	= 10 ⁹ J
TJ	=	terajoules	1 TJ	= 10 ¹² J

Introduction

PJ	=	petajoule	1 PJ	=	10^{15} J
Kg	=	kilogram			
t	=	tonnes			
mn	=	million			
bn	=	billion			
MWh	=	megawatt hour			
h	=	hour			
m ³	=	cubic metre			
%	=	per cent			
m ²	=	square metre			
km ²	=	square kilometre			
ha	=	hectare	1 ha	=	10 000 m ²
t-km	=	ton-kilometre			
p-km	=	passenger-kilometre			
o. b.	=	without bark			

Explanation of symbols

0	=	less than half of 1 in the last digit occupied, but more than zero
...	=	data will be available later
X	=	cell blocked for logical reasons
.	=	numerical value unknown or not to be disclosed
-	=	no figures or magnitude zero

Deviations in the totals may occur because of rounding off.

Note

Since the release of the tables in 2011 homogeneous branches (WZ 2008) are presented in a break down comparable to the statistical classification of economic activities of the European Community. Until 2010, the tables were calculated according the WZ 1993 respectively on the basis of the WZ 2003.

The intensities are shown in the tables 2011 only for the years from 2000 onwards, as data on gross value added by homogeneous branches after the revision of the national accounts are available only as from the reference year 2000.

General notes

Data from the energy balance sheets of the AG Energiebilanzen e. V. (AGEB) forms the most important basis for calculating the energy consumption of production sectors and private households in units of energy – petajoules (PJ) – as part of environmental economic accounting. This data is supplemented by other sources¹. The energy balances sheets already enable important analyses to be carried out on the structure and development of energy consumption. Environmental economic accounting statistics are displayed so as to break down energy consumption even further and display consumption in 68 production sectors. Thanks to this detailed representation it is possible to link energy consumption data with the similarly arranged input-output tables of the Federal Statistical Office.

Data on the sectoral energy consumption in Germany are available for the period 1995 to 2012.

A detailed description of the methods of the energy accounts, their content and application is available in the web under: www.destatis.de, Publications; Spezialised publications; Environmental-economic accounting; "Energy, raw materials, emissions"; "Energy".

Aggregate and index

Table 3.1.1 provides a quick overview of the most important facts on the topic of "output and use of energy". It mostly contains data from the Working Group on Energy Balances (AGEB) energy balance sheets and evaluation tables.

Derivation of main items (Table 3.1.2)

In the energy balances supply and use of energy carriers are accounted according the **domestic concept**. According this concept only delivery of energy carriers within the territory are depicted without further differentiation of consumption into consumption of domestic units and consumption of non-domestic units. Also energy consumption of domestic units abroad, e. g. bunkering of ships and aircrafts, is excluded from the balances. In contrast the **national accounts concept** comprises total use of goods of domestic units including energy consumption of domestic units abroad. However energy consumption of non-domestic units is excluded from domestic use of energy.

The table shows the conceptual differences between the two concepts.

Consumption by the transport sector is defined differently depending on the economic concept. Foreign cars and trucks by fuel on German territory, while German units also fill up abroad. The transition from the territorial to the national accounting strategy results in consumption by foreigners in Germany being deducted, while that of Germans abroad is added (see No. 44, 45). Bunkering by maritime shipping and air traffic is also allocated depending on the territories in which the units are based.

At the same time, the table serves as an overview of the depiction of energy consumption in the present table volume. The last column of the table contains concrete references to the tables in the table volume.

Energy consumption

In the report the use of energy carriers is presented in two different ways:

First way (table 3.2) displays the use of all energy sources (primary energy and secondary energy sources) with reference to the utilisation sectors (energy consumption with duplication). Here both the conversion effort applied by the conversion sectors and the energy consumed by the other sectors (final energy consumption) which use energy sources directly as fuel for heating and power and/or non-energy purposes (production sectors, private households) are shown.

Based on the presentation of the use of goods in the input-output tables (IOT) the other categories of final use - export, change of inventory, energy loss due to flaring, line losses and the statistical difference are presented in tables 3.2.2 and 3.2.3 along with domestic energy consumption.

Consumption of primary energy - energy intensities

In addition to the presentation of data for total consumption of energy data on the **consumption of primary energy (Table 3.3)** by branches and private households are presented. Primary energy consumption results by deducting energy produced by a transformation sector from energy consumed within the same sector. Usually energy is consumed totally within the production process or the consumption activity of households for a certain type of use (e. g. for the drive of machinery, electrical equipment and vehicles or for room-heating) and results ultimately as a thermal energy exposed to the environment. The amount of energy used in sectors which manufacture energy products for reuse in subsequent production steps is only partially consumed.

Primary energy is the energy adjusted for double accounting due to the transformation of energy. When looking at the demand side primary energy results from deducting total transformation output from total use of energy.

By subtraction transformation output from the inputs of the transformation sectors data for the transformation losses are calculated. There are two ways of accounting for these losses: either to show the losses where they originate - at the transformation sector (cf. **table 3.3.4**) – or to transfer it to the sectors consuming the energy carriers processed by the transformation sectors (cf. **table 3.3.1**).

The energy intensity (or specific energy use) of a production sector reveals the amount of energy used to generate one unit of the economic output generated (value-added). The intensities are calculated for both concepts mentioned (cf. **tables 3.3.2 and 3.3.5**).

$$\text{Energy intensity} = \frac{\text{Energy consumption}}{\text{Gross value added (price-adjusted)}}$$

Energy consumption by private households (adjusted for temperature) (Tables 3.3.6)

These tables show a fictitious energy consumption that would have been needed to keep up a room temperature at constant ambient air temperatures equivalent to the multiple-year – 1990 to 2012 – average. The make use of correction factors that are based on daily temperature figures and of information on the share of energy consumption needed for heating. In addition to this purchases of heating oil by private households to build up stocks are eliminated when determining consumption.

Table 3.3.6.7 presents the results on energy consumption for room-heating by different types of buildings (detached houses, two-family houses, apartment houses). The calculation is based on data from 'CO2-Online' Internet: www.co2online.de on specific energy consumption per square meter for different types of buildings. Data on the kind of heating by energy sources are taken from the "Mikrozensus" survey.

Cumulated energy consumption

The total of direct energy consumption of private households, exports of energy and indirect consumption (embodied energy) results in total cumulated energy consumption (**tables 3.4**). From a consumers point of view the energy consumption linked with the production of consumer goods, goods for capital formation and exports – within the national territory and abroad – is labeled as indirect consumption.

In order to calculate total indirect energy consumption energy consumption related to imports has to be accounted for. For this purpose actual energy inputs of the energy sectors and for other energy-intensive industries for the most important countries of origin are taken into account. For other industries the domestic production technology assumption is used. Total embodied energy is estimated by applying the input-output analysis on basis of hybrid (with monetary and physical values) input-output tables. The figures for industries are presented for 2010 in the revised classification of NACE 2008.

Emission relevant energy (tables 3.5)

Emission-relevant energy consumption is the basis for determining energy-related atmospheric emissions, such as greenhouse gases and other air pollutant emissions. It constitutes that quantity of energy, the consumption of which is causative in a production sector for the incidence of atmospheric emissions. It also includes the energy consumption of biofuels which causes emissions of greenhouse gases and other air pollutants.

The emission-relevant energy consumption is presented both in a breakdown by (homogeneous) branches as well as for industries (**tables 3.5.1 and 3.5.3**).

1 Mineral oil statistics from the Federal Office of Economics and Export Control (BAFA), energy statistics from the Federal Statistical Office, transport licensing statistics from the Kraftfahrt-bundesamt (Federal Motor Transport Authority), fuel calculations by the German Institute for Economic Research – DIW Berlin.

Glossary

Energy balances	The energy balance presents total supply and use of energy sources of an economy in a certain period in a systematic way. The balances not only contain data on the energy consumption of individual energy sources, but information on the whole flow of energy from the generation of energy until the use of energy in the energy generation sectors, transformation- and consuming sectors. The results are presented by the Arbeitsgemeinschaft Energiebilanzen in the internet: www.ag-energiebilanzen.de
Energy consumption	Energy consumption is the difference between the quantity of energy used in an economic sector and the quantity passed on by that sector to downstream sectors. Generally, the quantity of energy used is entirely consumed in the process of production and consumption activities of the sector (e.g. to run machines, equipment and vehicles or for room heating) and finally discharged into the environment in the form of heat.
Energy productivity	Energy productivity expresses how much gross domestic product (in euros adjusted for price changes) is generated per unit of primary energy used (in petajoules).
Energy sources	Energy sources comprise all materials and sources which accumulate energy in a mechanical, thermal, chemical or physical way. Energy sources can be used for a direct generation of energy or for a transformation into another usable energy source. Energy sources are classified according to primary- and secondary energy sources. <i>Primary energy sources</i> are energy sources which are not further transformed, e. g. hard coal, natural gas and renewable energy sources. <i>Secondary energy sources</i> are produced by transforming primary energy sources. Examples are petroleum products, electricity and district heat.
Final energy consumption	Final energy consumption comprises all primary and secondary energy sources which are used for the generation of useful energy. In the energy balances final energy consumption is reported as the final stage of energy use. However in the strict sense it is not the final stage of energy use. One has to consider yet the areas of energy use (e. g. lighting, heating, mechanical energy) and the services you get from final energy consumption.
Final use of goods	Equals total use minus intermediate consumption. It comprises the goods for final use reported in the GDP-calculations: final consumption of private households, of non-profit organizations serving households and of government, gross fixed capital formation in machinery and equipment and in construction, changes in inventories as well as the foreign trade balance.
Homogeneous branches	Economic sectors in the input-output tables. Homogeneous branches are constructed in the input-output accounts by pure functional criteria. They are defined by the output of a certain commodity group. Homogeneous branches rely solely on the production of a certain commodity group and vice versa all of it is produced only by one homogeneous branch.
Intensity of (primary) energy consumption	The energy intensity of an industry indicates the amount of energy used for the generation of the output (gross value added) of an industry. When presenting results for a certain period the figures for gross value added are based on price-adjusted data.
Primary energy consumption	Domestic primary energy consumption is calculated from the sum of all primary energy sources generated domestically and all imported energy sources less energy exports (and excluding offshore bunkering). In terms of use, this is equivalent to total energy used for energy purposes (final energy consumption and own consumption by energy sectors) and for non-energy purposes (e.g. in the chemical industry), losses incurred through domestic energy conversion, losses from flaring and distribution, as well as statistical differences reported in energy balance sheets.
Renewable energy sources	Renewable energy sources are regenerative energies which are either permanently present energy flows or are regenerative over a foreseeable period of time not exceeding a few generations.
Resident concept	The resident concept is a concept used in the National Accounts and the Environmental Economic Accounting (EEA) for the recording of economic activities. In that concept the residents of a certain territory are determined as recording units. In the EEA this concept for example is used for the recording of energy consumption or air emissions.
Trade, commerce and services	The "trade, commerce and service" sector is one of the final energy sectors of the energy balance. The sector comprises the activities of small units of manufacturing, of trade, services and other consumers. Included are public and private service activities, military, craft business, construction and agriculture.

Temperature adjustment

A mathematical procedure used for elimination the effect of ambient temperature on energy consumption, e. g. energy consumption of private households for room heating. In the EEA data on the day-to-degree ratio according to the VDI regulation 3807 is used. The daily day-to-degree ratios measure the difference of the daily ambient temperature to a mean room temperature of 20°C.

Table 3.1.1: Supply and use of energy - aggregates and indices^{*)}

No.	Specification	Unit	1995	2000	2005	2010	2011	2012
Energy								
1	Production of primary domestic energy.....	petajoules	4,328	3,793	4,099	4,155	4,246	4,124
2	Hard coal.....	petajoules	1,595	1,012	756	387	361	324
3	Brown coal (lignite).....	petajoules	1,711	1,528	1,611	1,535	1,595	1,676
4	Crude oil.....	petajoules	125	131	153	107	112	111
5	Gases.....	petajoules	621	649	598	462	459	404
	including:							
6	Natural gas, petroleum gas.....	petajoules	607	638	588	452	447	391
7	Renewable energies 1).....	petajoules	275	417	769	1,421	1,463	1,378
8	Other energy sources 2).....	petajoules	0	56	211	244	255	231
9	Imports.....	petajoules	10,819	11,904	12,748	11,876	11,205	11,208
	including							
10	Crude oil.....	petajoules	4,295	4,430	4,824	3,963	3,854	3,977
11	Natural gas.....	petajoules	2,634	2,676	3,311	3,307	3,154	3,110
12	Hard coal.....	petajoules	397	740	994	1,204	1,281	1,313
13	Exports.....	petajoules	957	1,442	2,148	1,837	1,672	1,778
14	Primary domestic energy consumption.....	petajoules	14,269	14,401	14,558	14,217	13,599	13,447
15	Final energy consumption.....	petajoules	9,322	9,235	9,160	9,310	8,881	8,919
16	Manufacturing.....	petajoules	2,474	2,421	2,514	2,592	2,634	2,587
17	Small consumers (GHD).....	petajoules	1,579	1,478	1,469	1,483	1,346	1,345
18	Road traffic.....	petajoules	2,266	2,358	2,150	2,109	2,133	2,117
19	Rail-, airtraffic and navy.....	petajoules	348	393	436	450	435	441
20	Private households.....	petajoules	2,655	2,584	2,591	2,676	2,333	2,427
	including:							
21	Electricity.....	petajoules	1,648	1,780	1,864	1,899	1,876	1,884
22	Natural gas.....	petajoules	2,025	2,204	2,131	2,247	2,038	2,081
23	Light fuel oil.....	petajoules	1,436	1,149	1,025	844	701	750
24	Non-energetic consumption.....	petajoules	963	1,068	1,114	1,034	1,027	976
25	Transformation input.....	petajoules	11,450	11,617	12,357	11,458	11,066	10,858
26	Electricity power generation.....	petajoules	5,148	5,335	5,537	5,511	5,186	5,061
27	Water and wind power, solar energy plant and biomass.....	petajoules	85	110	281	576	642	734
28	Transformation output.....	petajoules	8,232	8,307	8,959	8,167	8,002	8,000
29	including: electricity.....	petajoules	1,936	2,071	2,234	2,261	2,192	2,267
30	from renewable energies 3).....	petajoules	91	130	225	377	445	516
31	Transformation losses.....	petajoules	3,218	3,310	3,398	3,291	3,064	2,858
32	Internal consumption of transformation sectors.....	petajoules	585	565	611	546	557	523
33	Supply of domestic energy 4).....	petajoules	22,501	22,707	23,518	22,384	21,601	21,447
Socio-economic data								
34	Gross domestic product (GDP, price-adjusted).....	2010 = 100	83.2	91.4	94.1	100	103.6	104.0
35	Inhabitants.....	million	81.7	82.2	82.5	81.8	81.8	81.9
36	Gross value added, Manufacturing (price-adjusted).....	2010 = 100	80.7	89.4	94.5	100	108.9	108.4
37	Imports (cif, current prices).....	EUR bn	409.0	646.8	752.0	956.1	1,078.9	1,101.1
38	Energy sources.....	EUR bn	23.4	54.6	86.2	140.2	183.8	213.6
39	Crude oil, natural gas.....	EUR bn	14.3	33.4	53.3	65.3	86.0	100.9
Energy intensity								
40	Primary energy consumption / GDP (price-adjusted).....	2005 = 100	110.8	101.8	100	91.9	84.8	83.6
41	Final energy consumption / GDP (price-adjusted).....	2005 = 100	115.1	103.7	100	95.6	88.1	88.1
42	Energy intensity - manufacturing.....	2005 = 100	115.3	101.9	100	97.5	90.9	89.7
Energy consumption per inhabitants								
43	Primary energy consumption.....	MJ/inh.	174.7	175.2	176.5	173.9	166.3	164.2
44	Final energy consumption households.....	MJ/inh.	32.5	31.4	31.4	32.7	28.5	29.6
45	Final energy consumption households.....	kwh/inh.	11,704	11,319	11,310	11,782	10,272	10,668
Energy efficiency								
46	Final energy consumption / primary energy consumption.....	%	65.3	64.1	62.9	65.5	65.3	66.3
47	Efficiency heat power stations.....	%	38.1	39.5	41.3	42.0	42.0	42.0
Dependency on imports								
48	Imports / primary energy consumption 5).....	%	75.8	82.7	87.6	83.5	82.4	83.3
49	Imports / energy consumption.....	%	48.1	52.4	54.2	53.1	51.9	52.3

*) Source: national energy balances (Arbeitsgemeinschaft Energiebilanzen), own calculations.

1) 1990 - 1999: without pit gas; as from 2000: without pit gas and non-renewable waste, waste heat, etc.

2) 1990 - 1994: including fuel peat, pit gas and nuclear energy; as from 1995: including pit gas and non-renewable waste, waste heat, etc.; excluding external trade balance of electricity.

3) Percentage of electricity from renewable energy sources in (gross) electricity consumption.

Source: Working group on Renewable Energies-Statistics "Statistische Zeitreihen zur Entwicklung der Erneuerbaren Energien", version: February 2014

4) Including ships bunkering and bunkering of airlines.

5) Net imports = Imports minus Exports minus bunkering.

Table 3.1.1: Supply and use of energy - aggregates and indices^{*)}

No.	Specification	Unit	1995	2000	2005	2010	2011	2012
percentage of total consumption								
1	Production of primary domestic energy.....	%	100	100	100	100	100	100
2	Hard coal.....	%	36.9	26.7	18.4	9.3	8.5	7.9
3	Brown coal (lignite).....	%	39.5	40.3	39.3	36.9	37.6	40.6
4	Crude oil.....	%	2.9	3.5	3.7	2.6	2.6	2.7
	Gases.....	%	14.4	17.1	14.6	11.1	10.8	9.8
	including:	%						
5	Natural gas, petroleum gas.....	%	14.0	16.8	14.3	10.9	10.5	9.5
6	Renewable energies 1).....	%	6.3	11.0	18.8	34.2	34.5	33.4
7	Other energy sources 2).....	%	0.0	1.5	5.2	5.9	6.0	5.6
percentage of total imports								
8	Imports.....	%	100	100	100	100	100	100
	including	%						
9	Crude oil.....	%	39.7	37.2	37.8	33.4	34.4	35.5
10	Natural gas.....	%	24.4	22.5	26.0	27.8	28.1	27.7
11	Hard coal.....	%	3.7	6.2	7.8	10.1	11.4	11.7
12	Primary domestic energy consumption.....	2005 = 100	98.0	98.9	100	97.7	93.4	92.4
percentage of total final consumption								
13	Final energy consumption.....	%	100	100	100	100	100	100
14	Manufacturing.....	%	26.5	26.2	27.4	27.8	29.7	29.0
15	Small consumers (GHD).....	%	16.9	16.0	16.0	15.9	15.2	15.1
16	Road traffic.....	%	24.3	25.5	23.5	22.7	24.0	23.7
17	Rail-, airtraffic and navy.....	%	3.7	4.3	4.8	4.8	4.9	4.9
18	Private households.....	%	28.5	28.0	28.3	28.7	26.3	27.2
	including:	%						
19	Electricity.....	%	17.7	19.3	20.3	20.4	21.1	21.1
20	Natural gas.....	%	21.7	23.9	23.3	24.1	22.9	23.3
21	Light fuel oil.....	%	15.4	12.4	11.2	9.1	7.9	8.4
transformation input in percentage of total transformation input electricity power generation								
22	Electricity power generation.....	%	100	100	100	100	100	100
23	Water and wind power, solar energy plant and biomass.....	%	1.7	2.1	5.1	10.5	12.4	14.5
percentage of total transformation output								
24	Transformation output.....	%	100	100	100	100	100	100
25	including: electricity.....	%	23.5	24.9	24.9	27.7	27.4	28.3
26	from renewable energies 3).....	%	4.5	6.4	10.1	17.1	18.1	20.5
27	Transformation losses.....	%	39.1	39.8	37.9	40.3	38.3	35.7
28	Supply of domestic energy 4).....	2005 = 100	95.7	96.6	100.0	95.2	91.9	91.2
Socio-economic data								
29	Gross domestic product (GDP, price-adjusted).....	2005 = 100	88.4	97.2	100	106.3	110.1	110.5
30	Inhabitants.....	2005 = 100	99.0	99.7	100	99.1	99.2	99.3
31	Gross value added, Manufacturing (price-adjusted).....	2005 = 100	85.4	94.5	100	105.8	115.3	114.7
32	Imports (cif, current prices).....	2005 = 100	54.4	86.0	100	127.1	143.5	146.4
33	Energy sources.....	2005 = 100	27.2	63.4	100	162.7	213.3	247.9
34	Crude oil, natural gas.....	2005 = 100	26.8	62.5	100	122.4	161.1	189.2
Energy intensity								
35	Primary energy consumption / GDP (price-adjusted).....	2005 = 100	110.8	101.8	100	91.9	84.8	83.6
36	Final energy consumption / GDP (price-adjusted).....	2005 = 100	115.1	103.7	100	95.6	88.1	88.1
37	Energy intensity - manufacturing.....	2005 = 100	115.3	101.9	100	97.5	90.9	89.7
Energy consumption per inhabitants								
38	Primary energy consumption.....	2005 = 100	99.0	99.2	100	98.5	94.2	93.0
39	Final energy consumption households.....	2005 = 100	103.5	100.1	100	104.2	90.8	94.3
Energy efficiency								
40	Final energy consumption / primary energy consumption.....	2005 = 100	103.8	101.9	100	104.1	103.8	105.4
41	Efficiency heat power stations.....	2005 = 100	92.3	95.8	100	101.7	101.8	101.8
Dependency on imports								
42	Imports / primary energy consumption 5).....	%	75.8	82.7	87.6	83.5	82.4	83.3
43	Imports / energy consumption.....	%	48.1	52.4	54.2	53.1	51.9	52.3

*) Source: national energy balances (Arbeitsgemeinschaft Energiebilanzen), own calculations.

1) 1990 - 1999: without pit gas; as from 2000: without pit gas and non-renewable waste, waste heat, etc.

2) 1990 - 1994: including fuel peat, pit gas and nuclear energy; as from 1995: including pit gas and non-renewable waste, waste heat, etc.; excluding external trade balance of electricity.

3) Percentage of electricity from renewable energy sources in (gross) electricity consumption.

Source: Working group on Renewable Energies-Statistics "Statistische Zeitreihen zur Entwicklung der Erneuerbaren Energien", version: February 2014

4) Including ships bunkering and bunkering of airlines.

5) Net imports = Imports minus Exports minus bunkering.

Table 3.1.2: Supply and use of energy and consumption of primary energy according to different conceptsDerivation of main items
terajoules

No.	Specification	1995	2000	2005	2006	2007
	Supply and use of energy					
1	Total transformation input.....	11,449,523	11,616,589	12,357,410	12,505,578	12,375,905
2	of which: power station input 1).....	5,535,273	5,687,351	6,076,734	6,266,269	6,218,029
3	Other transformation losses.....	5,713,411	5,624,300	5,906,234	5,811,021	5,713,804
4	Other energy sources.....	200,839	304,938	374,442	428,289	444,072
5	Own consumption of transformation sectors.....	584,527	565,242	611,123	599,825	592,415
6	Non-energy use.....	963,484	1,067,788	1,114,355	1,067,772	1,032,447
7	Total final energy consumption.....	9,322,197	9,234,576	9,159,677	9,319,930	8,796,060
8	of which: manufacturing.....	2,474,005	2,421,386	2,513,586	2,525,350	2,628,453
9	Small consumers.....	1,579,369	1,477,633	1,469,169	1,558,057	1,308,209
10	Road traffic.....	2,266,247	2,357,944	2,149,865	2,164,737	2,142,455
11	Rail-, air traffic and navy.....	347,598	393,388	436,299	449,587	458,376
12	Households.....	2,654,978	2,584,225	2,590,757	2,622,200	2,258,566
13	Domestic energy consumption (EB 2)), domestic concept.....	22,319,731	22,484,195	23,242,564	23,493,106	22,796,827
14	+ Ship bunkering.....	86,882	92,743	104,286	107,888	128,554
15	+ Exports.....	957,341	1,442,247	2,147,720	2,032,643	2,073,150
16	- Changes in inventories (withdrawal from stocks, increase in stocks).....	166,367	239,086	-36,667	-100,538	136,773
17	+ Losses due to flaring and transformation.....	164,457	170,832	175,774	174,906	178,590
18	+ Statistical discrepancies.....	16,481	52,406	99,327	154,971	131,793
19	Total consumption (domestic concept).....	23,378,525	24,003,337	25,806,339	26,064,052	25,172,142
20	+ Bunkering of residents abroad 3).....	323,425	360,567	484,949	509,234	513,967
21	Total consumption (residents concept).....	23,701,950	24,363,904	26,291,288	26,573,286	25,686,109
22	Domestic production.....	12,559,570	12,099,263	13,057,974	13,089,316	13,225,658
23	+ Imports.....	10,818,955	11,904,074	12,748,365	12,974,737	11,946,485
24	+ Bunkerin of residents abroad 3).....	323,425	360,567	484,949	509,234	513,967
25	Total production (residents concept).....	23,701,950	24,363,904	26,291,287	26,573,287	25,686,110
	Primary energy consumption					
26	Transformation of energy					
27	+ Transformation input.....	11,449,523	11,616,589	12,357,410	12,505,578	12,375,905
28	of which: power station input.....	5,535,273	5,687,351	6,076,734	6,266,269	6,218,029
29	Other transformation sectors.....	200,839	304,938	374,442	428,289	444,072
30	Other energy producers.....	5,713,411	5,624,300	5,906,234	5,811,021	5,713,804
31	- Transformation output.....	8,231,697	8,306,631	8,959,307	8,986,190	8,910,338
32	of which: power station input.....	2,353,063	2,384,007	2,742,864	2,801,460	2,776,412
33	Other transformation sectors.....	198,130	314,482	378,123	426,158	450,950
34	Other energy producers.....	5,680,504	5,608,142	5,838,320	5,758,571	5,682,976
35	Transformation sectors (net).....	3,217,826	3,309,958	3,398,103	3,519,389	3,465,567
36	Internal consumption of transformation sectors.....	584,527	565,242	611,123	599,825	592,415
37	Non-energy use (EB).....	963,484	1,067,788	1,114,355	1,067,772	1,032,447
38	Final energy consumption (EB).....	9,322,197	9,234,576	9,159,677	9,319,930	8,796,060
39	Primary energy consumption (domestic concept).....	14,088,034	14,177,564	14,283,257	14,506,916	13,886,490
40	+ Losses due to flaring and transformation.....	164,457	170,832	175,774	174,906	178,590
41	+ Statistical discrepancies.....	16,481	52,406	99,327	154,971	131,793
42	Domestic primary energy consumption (EB, domestic concept).....	14,268,972	14,400,802	14,558,359	14,836,793	14,196,873
43	+ Ship bunkering.....	86,882	92,743	104,286	107,888	128,554
44	+ Bunkerin of residents abroad 3).....	323,425	360,567	484,949	509,234	513,967
45	- Bunkering non-residents on the territory 4).....	300,325	346,055	302,001	324,479	331,343
46	Balance of bunkering.....	109,981	107,255	287,233	292,643	311,178
47	- Losses due to flaring and transformation.....	164,457	170,832	175,774	174,906	178,590
48	- Statistical discrepancies.....	16,481	52,406	99,327	154,971	131,793
49	Primary energy consumption of residents (residents concept).....	14,198,015	14,284,819	14,570,491	14,799,559	14,197,668
50	Private households (domestic consumption) (EB).....	2,654,978	2,584,225	2,590,757	2,622,200	2,258,566
51	+ memorandum item: reposting of road traffic to private households.....	1,392,383	1,384,072	1,417,538	1,378,215	1,374,209
52	- memorandum item: reposting parts of destillate fuel oil to commercial users..	73,314	64,516	57,390	51,000	45,000
53	Private households (domestic consumption) (EEA-boundary).....	3,974,047	3,903,781	3,950,906	3,949,415	3,587,775
54	Homogeneous branches.....	10,223,968	10,381,038	10,619,585	10,850,144	10,609,893

1) Power plants = thermal power plants for general supply; industrial power plants (for electricity only) and public heating and district heating plants.

2) EB = Energy balance.

3) Including refueling of cars and trucks abroad by residents and bunkering of residential shipping lines and airlines abroad.

4) Including refueling of cars and trucks on the territory by non-residents and bunkering of non-residential shipping lines and airlines on the territory.

Table 3.1.2: Supply and use of energy and consumption of primary energy according to different conceptsDerivation of main items
terajoules

2008	2009	2010	2011	2012	Table in the part	Cell/spalt	No.
12,133,850	11,241,059	11,458,110	11,066,184	10,858,126	3.3.3.1	G76 (year 2011)	1
6,157,631	5,767,860	6,085,106	5,724,783	5,617,550	3.3.3.1	F76 (year 2011)	2
5,596,922	5,104,372	4,960,099	4,927,404	4,955,355			3
379,297	368,827	412,905	413,997	285,221			4
586,534	569,654	545,558	556,967	522,703			5
1,010,853	952,108	1,034,021	1,027,281	976,179			6
9,158,812	8,665,090	9,309,712	8,881,371	8,918,548			7
2,586,769	2,290,980	2,592,242	2,633,975	2,587,104			8
1,442,918	1,355,377	1,482,507	1,346,115	1,345,366			9
2,110,188	2,088,782	2,109,441	2,132,774	2,117,366			10
460,794	452,232	449,858	435,062	441,254			11
2,558,142	2,477,719	2,675,664	2,333,445	2,427,459			12
22,890,050	21,427,910	22,347,400	21,531,803	21,275,557	3.2.1 (part1)	31	13
124,485	114,059	116,156	113,908	106,264			14
1,924,590	1,687,752	1,836,667	1,672,244	1,777,714			15
-9,391	-110,806	138,170	-64,843	-555			16
173,222	145,113	151,931	148,031	149,165			17
49,451	55,541	-115,310	-78,648	22,517			18
25,171,189	23,541,181	24,198,675	23,452,181	23,331,771			19
516,338	501,396	507,199	480,489	482,537			20
25,687,646	24,042,578	24,705,874	23,932,670	23,814,309	3.2.2	75	21
12,856,038	12,133,646	12,322,678	12,247,415	12,123,709	3.2.2	76	22
12,315,151	11,407,535	11,875,997	11,204,766	11,208,062	3.2.2	77	23
516,338	501,396	507,199	480,489	482,537			24
25,687,646	24,042,578	24,705,874	23,932,670	23,814,309	= cell 32		25
12,133,850	11,241,059	11,458,110	11,066,184	10,858,126			26
6,157,631	5,767,860	6,085,106	5,724,783	5,617,550			27
379,297	368,827	412,905	413,997	285,221			28
5,596,922	5,104,372	4,960,099	4,927,404	4,955,355			29
8,733,037	8,097,699	8,167,267	8,001,851	8,000,181	3.2.1	32	30
2,788,404	2,623,861	2,795,772	2,677,610	2,769,663	3.3.3.1	F77 (year 2011)	31
377,886	388,374	435,554	426,414	297,759			32
5,566,747	5,085,464	4,935,941	4,897,827	4,932,759			33
3,400,813	3,143,360	3,290,843	3,064,333	2,857,945			34
586,534	569,654	545,558	556,967	522,703			35
1,010,853	952,108	1,034,021	1,027,281	976,179			36
9,158,812	8,665,090	9,309,712	8,881,371	8,918,548			37
14,157,013	13,330,212	14,180,133	13,529,952	13,275,375			38
173,222	145,113	151,931	148,031	149,165			39
49,451	55,541	-115,310	-78,648	22,517	3.2.1	33	40
14,379,686	13,530,866	14,216,755	13,599,335	13,447,057	3.2.1/3.3.1/ 3.3.4	35/74/74	41
124,485	114,059	116,156	113,908	106,264			42
516,457	501,396	507,199	480,489	482,537			43
326,256	318,496	304,016	311,860	326,582			44
314,200	296,959	319,339	282,537	262,220	3.2.1 (part2)/3.3.1/3.3.4	34/71/71	45
173,222	145,113	151,931	148,031	149,165	3.3.1/3.3.4	73	46
49,451	55,541	-115,310	-78,648	22,517	3.3.1/3.3.4	72	47
14,471,213	13,627,170	14,499,473	13,812,489	13,537,595	3.3.1/3.3.4	70	48
2,558,142	2,477,719	2,675,664	2,333,445	2,427,459			49
1,347,574	1,358,797	1,359,901	1,375,959	1,360,631			50
45,000	40,000	40,000	30,000	30,000			51
3,831,418	3,796,515	3,995,565	3,679,404	3,758,090	3.2.2/3.3.4	69	52
10,639,795	9,830,655	10,503,907	10,133,085	9,779,505	3.3.4	68	53
							54

Table 3.2.1: Energy consumption by energy sources (residents concept)^{*)}

terajoules

No.	Source of energy	1995	2000	2005	2010	2011	2012
1	Hard coal.....	2,052,394	1,865,578	1,763,503	1,665,195	1,662,361	1,650,057
2	Hard coal briquettes.....	9,169	3,643	1,476	10,802	8,604	4,145
3	Hard coal coke.....	423,219	429,263	332,247	316,051	306,910	297,703
4	Other coal products.....	41,369	39,103	10,503	12,239	29,179	17,051
5	Brown coal (lignite).....	1,709,080	1,528,115	1,608,690	1,536,198	1,593,126	1,673,216
6	Lignite briquettes.....	104,702	35,057	24,824	31,139	28,712	29,901
7	Other lignite products.....	77,300	67,339	74,336	85,038	96,990	95,055
8	Hard lignite.....	26,098	29,812	128	0	0	0
9	Crude oil.....	4,399,992	4,568,702	4,919,545	4,052,556	3,978,529	4,041,554
10	Motor gasoline.....	1,536,919	1,453,867	1,244,587	986,750	995,374	925,124
11	Petroleum.....	643,406	792,089	802,061	737,374	705,623	699,963
12	Air fuel.....	299,573	376,022	425,592	418,964	370,528	394,110
13	Gas-diesel oil.....	1,096,181	1,202,185	1,287,468	1,398,931	1,436,696	1,445,715
14	Light fuel oil.....	1,531,742	1,253,480	1,145,280	947,047	816,121	850,198
15	Heavy fuel oil.....	584,039	452,654	387,832	347,574	310,558	295,947
16	Petrocoke.....	71,114	69,290	78,913	68,969	64,227	65,189
17	Liquid gas.....	181,590	153,534	148,892	156,938	153,022	156,938
18	Refinery gas.....	184,514	207,406	226,548	179,814	182,861	176,955
19	Other mineral oil products.....	326,153	317,691	303,188	315,904	334,080	301,771
20	Coke gas, town gas.....	90,446	80,646	64,010	62,809	64,200	60,074
21	Blast furnace gas.....	162,816	156,354	154,090	158,675	155,543	153,796
22	Natural gas, petroleum gas.....	2,664,014	2,895,790	3,110,764	3,245,232	2,960,304	2,940,513
23	Pit gas.....	10,376	7,789	8,756	9,928	12,325	12,635
24	Water power.....	77,048	91,976	70,474	75,442	63,623	78,318
25	Wind power, solar energy plant 1).....	6,188	34,892	102,658	178,114	245,603	277,380
26	Waste and other biomass.....	184,656	349,189	870,973	1,490,529	1,488,125	1,192,908
27	Other renewable energies.....	6,820	9,255	16,551	39,016	42,987	59,536
28	Electricity.....	1,871,405	1,996,751	2,097,824	2,111,263	2,080,155	2,095,784
29	Nuclear energy.....	1,681,890	1,851,148	1,778,594	1,533,330	1,177,858	1,085,011
30	Remote heating.....	375,500	272,830	469,491	494,919	450,117	461,230
31	Total energy sources (residents concept) 2).....	22,429,713	22,591,449	23,529,798	22,666,739	21,814,340	21,537,777
32	- Transformation output.....	8,231,697	8,306,631	8,959,307	8,167,267	8,001,851	8,000,181
33	+ Losses due to flaring and distribution/stat. disc. 3).....	180,938	223,239	275,101	36,622	69,385	171,685
34	- Balance of bunkering 4).....	109,982	107,255	287,234	319,339	282,539	262,223
35	Primary energy consumption (EB).....	14,268,972	14,400,802	14,558,358	14,216,755	13,599,335	13,447,057

*) Including final energy consumption as well as transformation input, own use of the energy sector, non-energy consumption and balance of bunkering (residents concept).

1) Including biogas and generation plants of other energy producers.

2) Corresponds to total of row 13 and 46 of table 3.1.2.

3) Losses due to flaring and distribution are not attributed to consumers.

4) Bunkering of residents abroad minus bunkering of non-residents on the national territory.

Table 3.2.2: Energy consumption by homogeneous branches and private households (residents concept)*)

terajoules

No.	CPA ¹⁾	Homogeneous branches	1995	2000	2005	2010	2011	2012
1	A	Products of agriculture, forestry and fishing.....	229,897	148,019	142,643	181,288	177,654	188,136
2	01	Products of agriculture, hunting and related services.....	224,870	143,451	138,587	176,513	173,148	183,628
3	02	Products of forestry, logging and related services.....	3,243	2,704	2,571	3,078	2,904	2,896
4	03	Fish and other fishing products; aquaculture products.....	1,784	1,864	1,485	1,697	1,602	1,612
5	B	Mining and quarrying.....	339,304	90,368	90,084	77,453	96,172	67,753
6	05	Coal and lignite.....	275,990	43,987	51,732	46,058	67,138	40,613
7	06	Crude petroleum and natural gas.....	21,593	23,671	17,082	11,201	11,406	11,049
8	07-09	Metal ores, other mining and quarrying products.....	41,721	22,710	21,269	20,194	17,629	16,091
9	C	Manufactured products.....	9,436,204	9,735,800	10,233,510	9,276,697	9,275,886	9,097,896
10	10-12	Food products, beverages, tobacco products.....	226,645	220,741	224,602	227,269	222,611	225,161
11	13-15	Textiles, wearing apparel, leather and related products.....	64,290	54,466	40,867	28,361	26,899	24,207
12	16	Wood and products of wood and cork, except furniture.....	39,670	45,025	65,671	88,084	91,670	68,321
13	17	Paper and paper products.....	176,074	180,806	303,696	248,988	239,396	229,984
14	18	Printing and recording services.....	20,735	28,584	33,067	24,040	22,799	27,010
15	19	Coke and refined petroleum products.....	5,870,241	6,087,892	6,388,419	5,409,486	5,368,534	5,386,488
16	19.1	Coke oven products.....	510,253	395,707	346,182	371,878	361,841	356,959
17	19.2	Refined petroleum products.....	5,359,988	5,692,185	6,042,237	5,037,608	5,006,694	5,029,529
18	20	Chemicals and chemical products.....	1,249,007	1,330,606	1,486,563	1,574,829	1,584,871	1,432,427
19	21	Basic pharmaceutical products and pharmaceutical preparations.....	38,411	56,717	33,307	18,773	18,747	12,925
20	22	Rubber and plastic products.....	77,022	80,801	87,533	95,955	90,023	90,243
21	23	Other non-metallic mineral products.....	336,402	311,612	254,616	279,696	292,264	280,050
22	23.1	Glass and glass products.....	104,738	100,152	88,040	87,747	89,956	83,141
23	23.2-9	Refractory products, cut, shaped and finished stone.....	231,664	211,460	166,577	191,949	202,308	196,909
24	24	Basic metals.....	896,403	928,781	865,039	836,093	867,592	862,860
25	24.1-3	Basic iron and steel and ferro-alloys, other products of steel.....	775,663	792,797	725,950	711,400	743,970	743,829
26	24.4	Basic precious and other non-ferrous metals.....	89,750	98,200	92,537	77,550	73,601	70,504
27	24.5	Casting services of metal.....	30,989	37,784	46,552	47,143	50,022	48,528
28	25	Fabricated metal products, except machinery and equipment.....	93,557	94,195	105,889	108,752	110,554	109,157
29	26	Computer, electronic and optical products.....	40,249	36,430	32,681	29,550	32,565	33,509
30	27	Electrical equipment.....	46,421	36,128	34,156	34,053	38,421	37,212
31	28	Machinery and equipment n.e.c.....	101,816	86,554	91,859	94,389	91,470	93,982
32	29	Motor vehicles, trailers and semi-trailers.....	113,347	115,753	134,757	121,482	121,016	125,626
33	30	Other transport equipment.....	20,125	16,848	21,538	15,536	13,831	14,176
34	31-32	Furniture, other manufacture goods.....	21,384	16,775	17,565	26,272	28,375	29,375
35	33	Repair and installation services of machinery and equipment.....	4,405	7,083	11,686	15,089	14,247	15,182
36	D (35)	Electricity, gas, steam and air conditioning.....	5,684,645	5,840,274	6,275,329	6,275,310	5,901,574	5,808,242
37	35.1/3	Electricity, transmission and distribution services, steam.....	5,678,075	5,828,090	6,235,243	6,240,547	5,872,962	5,780,844
38	35.2	Manufactured gas.....	6,571	12,184	40,086	34,763	28,613	27,398
39	E	Water supply; sewerage, waste management and remediation services.....	121,061	132,871	92,203	103,382	96,293	93,093
40	36	Natural water; water treatment and supply services.....	19,109	26,036	17,933	21,586	20,822	21,571
41	37-39	Sewerage services; waste collection and materials recovery services.....	101,951	106,835	74,270	81,796	75,472	71,522
42	37	Sewerage services, sewerage sludge.....	10,892	11,905	8,847	9,590	9,245	9,098
43	38-39	Waste collection, treatment and disposal services.....	91,059	94,931	65,424	72,206	66,226	62,424
44	F	Constructions and construction works.....	316,030	275,308	216,314	261,303	273,248	249,442
45	41-42	Building and building construction works.....	234,005	201,731	152,946	188,028	198,732	174,128
46	43	Specialised construction works.....	82,024	73,577	63,368	73,276	74,516	75,313
47	G	Wholesale and retail trade services; repair services of motor vehicles.....	503,910	492,072	454,450	396,586	379,661	379,662
48	45	Wholesale and retail trade and repair services of motor vehicles.....	81,780	81,565	69,136	43,580	41,645	42,395
49	46	Wholesale trade services, except of motor vehicles and motorcycles.....	148,747	147,006	138,324	113,912	111,784	111,819
50	47	Retail trade services, except of motor vehicles and motorcycles.....	273,383	263,500	246,990	239,095	226,232	225,448
51	H	Transportation and storage services.....	760,821	869,573	923,013	965,112	905,852	889,924
52	49.1-2	Passenger rail transport services, freight rail transport services.....	83,601	78,761	71,163	69,342	68,867	55,540
53	49.3-5	Other passenger land transport services, transport service via pipeline.....	127,843	160,110	171,721	168,921	168,440	161,154
54	50	Water transport services.....	82,423	56,235	39,004	75,512	68,215	50,445
55	51	Air transport services.....	297,617	379,082	436,716	430,160	381,639	407,947
56	52	Warehousing and support services for transportation.....	125,258	144,801	154,400	174,749	171,954	168,406
57	53	Postal and courier services.....	44,078	50,583	50,010	46,428	46,737	46,432
58	I	Accommodation and food services.....	104,368	104,323	115,103	114,352	108,495	105,515
59	J	Information and communication services.....	76,607	84,124	99,952	87,993	81,597	80,869
60	K	Financial and insurance services.....	53,837	49,746	48,593	44,937	38,355	37,806
61	L	Real estate services.....	29,069	28,327	36,710	42,628	40,384	41,878
62	M	Professional, scientific and technical services.....	117,964	133,945	143,313	155,125	146,020	142,682
63	N	Administrative and support services.....	18,980	78,383	71,502	81,994	81,001	76,839
64	O	Public administration and defence services.....	185,881	163,615	144,596	152,596	135,782	134,075
65	P	Education services.....	128,860	116,922	133,538	123,009	104,039	96,019
66	Q	Human health and social work services.....	154,053	152,083	186,170	188,490	165,790	163,350
67	R-T	Other services.....	194,173	191,916	171,870	142,915	127,133	126,504
68		All homogeneous branches.....	18,455,666	18,687,668	19,578,893	18,671,174	18,134,936	17,779,687
69		Private households (residents consumption).....	3,974,047	3,903,781	3,950,906	3,995,565	3,679,404	3,758,090
70		All homogeneous branches and private households (residents concept) 2)...	22,429,713	22,591,449	23,529,798	22,666,739	21,814,340	21,537,777
71	+	Change in inventories.....	-166,367	-239,086	36,667	-138,170	64,843	555
72	+	Losses due to flaring and distributions.....	164,457	170,832	175,774	151,931	148,031	149,165
73	+	Exports and bunkering non-residents on the territory.....	1,257,666	1,788,301	2,449,721	2,140,683	1,984,104	2,104,296
74	+	Statistical discrepancies.....	16,481	52,406	99,327	-115,309	-78,646	22,520
75	=	Total use (residents concept).....	23,701,950	24,363,903	26,291,288	24,705,874	23,932,672	23,814,312
76		Domestic production.....	12,559,570	12,099,263	13,057,974	12,322,678	12,247,415	12,123,709
77		Imports and bunkering of residents abroad.....	11,142,380	12,264,641	13,233,313	12,383,196	11,685,255	11,690,600

*) Including final energy consumption as well as transformation input, internal use of the energy sector, non-energy consumption and balance of bunkering (residents concept).

1) Statistical Classification of Products by Activity (CPA) of the European Union (2008 edition).

2) Corresponds to total of row 13 and 46 of table 3.1.2.

Table 3.2.3.1: Energy consumption of homogeneous branches by type of energy source 2000 (residents concept)*)
terajoules

No.	CPA ¹⁾	Homogeneous branches	Total	Hard coal and hard coal products	Lignite and lignite products	Mineral oil		
						Together	Crude oil	Motor gasoline
1	A	Products of agriculture, forestry and fishing.....	148,019	1,329	678	103,508	0	6,454
2	01	Products of agriculture, hunting and related services.....	143,451	1,329	678	100,692	0	6,221
3	02	Products of forestry, logging and related services.....	2,704	0	0	1,832	0	230
4	03	Fish and other fishing products; aquaculture products.....	1,864	0	0	984	0	3
5	B	Mining and quarrying.....	90,368	1,291	8,707	10,658	0	676
6	05	Coal and lignite.....	43,987	211	7,235	2,586	0	261
7	06	Crude petroleum and natural gas.....	23,671	0	0	513	0	114
8	07-09	Metal ores, other mining and quarrying products.....	22,710	1,080	1,472	7,559	0	301
9	C	Manufactured products.....	9,735,800	931,459	172,479	6,648,955	4,568,702	168,619
10	10-12	Food products, beverages, tobacco products.....	220,741	6,212	5,041	51,289	0	2,164
11	13-15	Textiles, wearing apparel, leather and related products.....	54,466	1,143	10	7,906	0	539
12	16	Wood and products of wood and cork, except furniture.....	45,025	89	59	7,794	0	400
13	17	Paper and paper products.....	180,806	13,630	3,039	8,580	0	537
14	18	Printing and recording services.....	28,584	0	0	3,112	0	293
15	19	Coke and refined petroleum products.....	6,087,892	353,097	115,051	5,526,237	4,568,702	147,950
16	19.1	Coke oven products.....	395,707	325,658	0	19,640	0	0
17	19.2	Refined petroleum products.....	5,692,185	27,439	115,051	5,506,596	4,568,702	147,950
18	20	Chemicals and chemical products.....	1,330,606	30,995	9,751	816,308	0	1,865
19	21	Basic pharmaceutical products and pharmaceutical preparations.....	56,717	1,636	195	21,753	0	414
20	22	Rubber and plastic products.....	80,804	0	108	9,183	0	931
21	23	Other non-metallic mineral products.....	311,612	48,245	38,595	53,607	0	731
22	23.1	Glass and glass products.....	100,152	0	0	15,198	0	162
23	23.2-9	Refractory products, cut, shaped and finished stone.....	211,460	48,245	38,595	38,409	0	569
24	24	Basic metals.....	928,781	474,030	482	49,910	0	1,071
25	24.1-3	Basic iron and steel and ferro-alloys, other products of steel.....	792,797	460,064	2	40,680	0	555
26	24.4	Basic precious and other non-ferrous metals.....	98,200	3,360	396	6,725	0	371
27	24.5	Casting services of metal.....	37,784	10,605	83	2,506	0	145
28	25	Fabricated metal products, except machinery and equipment.....	94,195	648	53	20,570	0	1,673
29	26	Computer, electronic and optical products.....	36,430	16	8	7,631	0	1,022
30	27	Electrical equipment.....	36,128	556	83	8,128	0	1,208
31	28	Machinery and equipment n.e.c.....	86,554	440	0	22,429	0	2,428
32	29	Motor vehicles, trailers and semi-trailers.....	115,753	723	4	21,398	0	3,661
33	30	Other transport equipment.....	16,848	1	1	2,595	0	466
34	31-32	Furniture, other manufacture goods.....	16,775	0	0	5,984	0	615
35	33	Repair and installation services of machinery and equipment.....	7,083	0	0	4,543	0	651
36	D (35)	Electricity, gas, steam and air conditioning.....	5,840,274	1,363,356	1,451,322	97,745	0	659
37	35.1/.3	Electricity, transmission and distribution services, steam.....	5,828,090	1,363,356	1,451,322	97,287	0	556
38	35.2	Manufactured gas.....	12,184	0	0	458	0	102
39	E	Water supply; sewerage, waste management and remediation services.....	132,871	646	3	84,268	0	10,680
40	36	Natural water; water treatment and supply services.....	26,036	0	0	481	0	109
41	37-39	Sewerage services; waste collection and materials recovery services.....	106,835	646	3	83,787	0	10,572
42	37	Sewerage services, sewerage sludge.....	11,905	0	0	9,043	0	1,689
43	38-39	Waste collection, treatment and disposal services.....	94,931	646	3	74,744	0	8,883
44	F	Constructions and construction works.....	275,308	442	226	237,935	0	11,726
45	41-42	Building and building construction works.....	201,731	216	110	183,161	0	5,313
46	43	Specialised construction works.....	73,577	226	115	54,773	0	6,412
47	G	Wholesale and retail trade services; repair services of motor vehicles.....	492,072	4,070	2,077	247,113	0	34,093
48	45	Wholesale and retail trade and repair services of motor vehicles.....	81,565	454	232	53,946	0	1,352
49	46	Wholesale trade services, except of motor vehicles and motorcycles.....	147,006	793	405	82,927	0	7,344
50	47	Retail trade services, except of motor vehicles and motorcycles.....	263,500	2,823	1,441	110,240	0	25,396
51	H	Transportation and storage services.....	869,573	29	431	776,592	0	9,762
52	49.1-2	Passenger rail transport services, freight rail transport services.....	78,761	29	431	32,012	0	41
53	49.3-5	Other passenger land transport services, transport service via pipeline.....	160,110	0	0	141,276	0	4,750
54	50	Water transport services.....	56,235	0	0	56,216	0	8
55	51	Air transport services.....	379,082	0	0	379,055	0	1,173
56	52	Warehousing and support services for transportation.....	144,801	0	0	123,382	0	1,313
57	53	Postal and courier services.....	50,583	0	0	44,650	0	2,478
58	I	Accommodation and food services.....	104,323	980	500	30,421	0	2,647
59	J	Information and communication services.....	84,124	0	0	52,771	0	9,837
60	K	Financial and insurance services.....	49,746	0	0	16,811	0	2,171
61	L	Real estate services.....	28,327	0	0	9,811	0	3,809
62	M	Professional, scientific and technical services.....	133,945	0	0	96,641	0	37,456
63	N	Administrative and support services.....	78,383	0	0	69,796	0	2,004
64	O	Public administration and defence services.....	163,615	2,494	2,135	76,626	0	12,327
65	P	Education services.....	116,922	586	299	22,705	0	353
66	Q	Human health and social work services.....	152,083	2,315	1,181	28,468	0	2,974
67	R-T	Other services.....	191,916	337	172	102,915	0	11,894
68		All homogeneous branches.....	18,687,668	2,309,335	1,640,209	8,713,739	4,568,702	328,144
69		Private households (residents consumption).....	3,903,781	28,252	20,114	2,133,181	0	1,125,723
70		All homogeneous branches and private households (residents concept) 3).....	22,591,449	2,337,587	1,660,323	10,846,920	4,568,702	1,453,867
71	+	Change in inventories.....	170,832	0	0	0	0	0
72	+	Losses due to flaring and distributions.....	-239,086	-103,148	-5,679	-152,011	-145,095	55,830
73	+	Exports and bunkering non-residents on the territory.....	1,788,301	47,714	13,144	1,268,641	137,632	219,589
74	+	Statistical discrepancies.....	52,406	-17,240	1,405	0	0	0
75	=	Total use (residents concept).....	24,363,903	2,264,913	1,669,193	11,963,550	4,561,239	1,729,286
76		Domestic production.....	12,099,263	1,310,782	1,639,192	5,372,370	131,271	1,310,915
77		Imports and bunkering of residents abroad.....	12,264,641	954,131	30,001	6,591,180	4,429,968	418,371

*) Including final energy consumption as well as transformation input, internal use of the energy sector, non-energy consumption and balance of bunkering (residents concept).

1) Statistical Classification of Products by Activity (CPA) of the European Union (2008 edition).

2) Including biogas and generation plants of other energy producers.

3) Corresponds to total of row 13 and 46 of table 3.1.2.

Table 3.2.3.1: Energy consumption of homogeneous branches by type of energy source 2000 (residents concept)*)
terajoules

Mineral oil					Gases	Renewable energies and other non-renewable energy sources					Electricity	Nuclear energy	Remote heating	No.
Gas-diesel oil	Air fuel	Light fuel oil	Heavy fuel oil	Other mineral oil products		Together	Water and wind power, solar energy plant and other ²⁾	Biomass	Renewable energies	non-renewable waste, waste heat, etc.				
61,416	0	34,750	0	888	13,323	2,968	0	415	2,553	0	25,778	0	433	1
58,832	0	34,750	0	888	13,323	2,962	0	409	2,553	0	24,033	0	433	2
1,602	0	0	0	0	0	6	0	6	0	0	866	0	0	3
981	0	0	0	0	0	0	0	0	0	0	879	0	0	4
4,909	0	4,250	562	261	28,124	65	0	65	0	0	38,673	0	2,850	5
1,266	0	768	30	261	1,168	6	0	6	0	0	30,081	0	2,700	6
392	0	7	0	0	21,517	3	0	3	0	0	1,638	0	0	7
3,251	0	3,475	532	0	5,439	57	0	57	0	0	6,954	0	150	8
51,830	158	191,541	391,043	1,277,062	1,092,239	26,855	0	26,849	6	0	814,679	0	49,133	9
5,722	0	30,348	9,506	3,550	95,404	50	0	50	0	0	59,294	0	3,450	10
1,193	0	5,204	942	28	21,992	13	0	12	1	0	21,610	0	1,792	11
940	0	4,291	2,030	133	9,968	7,756	0	7,755	1	0	17,699	0	1,660	12
1,224	0	3,008	2,839	972	79,812	5,913	0	5,913	0	0	67,373	0	2,460	13
871	0	1,933	0	14	10,370	10	0	9	1	0	14,001	0	1,091	14
2,157	158	54,927	147,670	604,672	63,111	15	0	15	0	0	26,381	0	4,000	15
0	0	30	0	19,610	48,691	0	0	0	0	0	1,717	0	0	16
2,157	158	54,897	147,670	585,062	14,420	15	0	15	0	0	24,664	0	4,000	17
4,366	0	29,073	166,748	614,256	285,828	12,322	0	12,322	0	0	163,553	0	11,850	18
985	0	984	1,917	17,452	21,092	5	0	5	0	0	12,036	0	0	19
2,128	0	5,149	878	93	21,884	22	0	22	0	0	48,245	0	1,362	20
1,768	0	9,768	20,029	21,311	120,633	407	0	407	0	0	49,175	0	950	21
366	0	1,386	9,768	3,517	65,261	4	0	4	0	0	19,489	0	200	22
1,403	0	8,382	10,262	17,794	55,372	403	0	403	0	0	29,686	0	750	23
2,466	0	5,098	37,324	3,951	250,079	26	0	26	0	0	152,829	0	1,426	24
1,276	0	1,164	36,021	1,664	211,395	13	0	13	0	0	79,584	0	1,058	25
853	0	2,358	1,221	1,922	28,120	9	0	9	0	0	59,300	0	290	26
338	0	1,576	82	365	10,563	4	0	4	0	0	13,945	0	78	27
4,114	0	13,514	188	1,081	34,038	41	0	41	0	0	36,996	0	1,849	28
2,222	0	4,359	0	28	7,175	43	0	42	1	0	19,166	0	2,391	29
3,022	0	3,762	122	14	3,074	50	0	48	1	0	21,795	0	2,442	30
5,810	0	11,731	639	1,820	24,220	62	0	62	0	0	35,495	0	3,909	31
8,637	0	3,739	48	5,314	31,681	94	0	94	0	0	55,241	0	6,612	32
1,136	0	898	0	95	7,124	12	0	12	0	0	5,877	0	1,238	33
1,414	0	3,756	163	37	4,702	15	0	14	1	0	5,423	0	652	34
1,653	0	0	0	2,239	50	0	0	0	0	0	2,489	0	0	35
2,618	0	23,560	34,209	36,700	647,099	257,687	126,868	73,950	407	56,462	170,517	1,851,148	1,400	36
2,262	0	23,560	34,209	36,700	647,099	257,686	126,868	73,949	407	56,462	158,792	1,851,148	1,400	37
356	0	0	0	0	0	1	0	1	0	0	11,725	0	0	38
62,092	0	408	335	10,753	503	15,925	0	15,925	0	0	31,460	0	66	39
372	0	0	0	0	0	1	0	1	0	0	25,553	0	0	40
61,720	0	408	335	10,753	503	15,923	0	15,923	0	0	5,906	0	66	41
7,354	0	0	0	0	0	113	0	113	0	0	2,749	0	0	42
54,366	0	408	335	10,753	503	15,811	0	15,811	0	0	3,158	0	66	43
65,896	0	29,673	0	130,639	16,546	383	0	365	19	0	18,864	0	911	44
33,207	0	14,830	0	129,810	8,080	189	0	179	9	0	9,525	0	450	45
32,689	0	14,843	0	829	8,466	195	0	185	10	0	9,340	0	462	46
106,178	0	79,310	0	27,531	103,927	984	0	977	7	0	125,430	0	8,471	47
9,186	0	16,835	0	26,572	13,547	143	0	143	0	0	11,134	0	2,109	48
60,460	0	15,116	0	7	30,023	521	0	521	0	0	30,500	0	1,837	49
36,532	0	47,359	0	952	60,356	320	0	314	6	0	83,796	0	4,525	50
350,424	368,600	5,737	26,316	15,753	9,506	5,632	0	5,632	0	0	75,150	0	2,233	51
29,044	0	506	0	2,421	435	53	0	53	0	0	45,724	0	76	52
129,676	0	0	0	6,850	0	3,202	0	3,202	0	0	15,632	0	0	53
25,626	0	0	26,316	4,266	0	19	0	19	0	0	0	0	0	54
9,282	368,600	0	0	0	0	26	0	26	0	0	0	0	0	55
116,415	0	3,439	0	2,214	7,002	1,590	0	1,590	0	0	10,979	0	1,850	56
40,380	0	1,792	0	0	2,069	741	0	741	0	0	2,816	0	307	57
1,442	0	24,674	0	1,658	30,834	9	0	7	2	0	37,291	0	4,288	58
32,954	0	9,976	0	4	12,231	232	0	225	8	0	16,793	0	2,097	59
1,157	0	13,482	0	0	15,026	19	0	13	6	0	15,526	0	2,364	60
3,234	0	2,767	0	0	2,770	25	0	19	6	0	15,222	0	499	61
44,695	0	13,895	0	595	17,603	203	0	197	6	0	15,950	0	3,548	62
65,165	0	2,627	0	0	5,521	158	0	157	1	0	2,113	0	795	63
18,490	7,264	36,934	189	1,422	30,743	40	0	29	11	0	44,147	0	7,430	64
952	0	21,400	0	0	56,876	3	0	3	0	0	17,891	0	18,562	65
1,931	0	23,562	0	0	69,091	31	0	20	11	0	32,281	0	18,715	66
68,227	0	22,793	0	1	40,884	789	0	789	0	0	29,185	0	17,633	67
943,608	376,022	541,341	452,654	1,503,268	2,192,847	312,010	126,868	125,638	3,042	56,462	1,526,951	1,851,148	141,430	68
258,577	0	712,139	0	36,742	947,732	173,302	0	167,089	6,213	0	469,800	0	131,400	69
1,202,185	376,022	1,253,480	452,654	1,540,010	3,140,579	485,312	126,868	292,727	9,255	56,462	1,996,751	1,851,148	272,830	70
0	0	0	0	0	45,402	0	0	0	0	0	84,776	0	40,654	71
-39,533	-2,902	-31,933	13,014	-1,392	21,752	0	0	0	0	0	0	0	0	72
323,365	127,990	59,376	241,483	159,206	307,326	0	0	0	0	0	151,477	0	0	73
0	0	0	0	0	68,240	0	0	0	0	0	1	0	0	74
1,486,017	501,110	1,280,923	707,151	1,697,824	3,583,299	485,312	126,868	292,727	9,255	56,462	2,233,005	1,851,148	313,484	75
1,114,470	185,360	880,361	546,176	1,203,817	907,600	485,312	126,868	292,727	9,255	56,462	2,070,523	0	313,484	76
371,547	315,750	400,562	160,975	494,007	2,675,699	0	0	0	0	0	162,482	1,851,148	0	77

Table 3.2.3.2: Energy consumption of homogeneous branches by type of energy source 2005 (residents concept)*)
terajoules

No.	CPA ¹⁾	Homogeneous branches	Total	Hard coal and hard coal products	Lignite and lignite products	Mineral oil			
						Together	Crude oil	Motor gasoline	Gas-diesel oil
1	A	Products of agriculture, forestry and fishing.....	142,643	975	25	99,467	0	5,372	65,818
2	01	Products of agriculture, hunting and related services.....	138,587	975	25	96,485	0	5,241	62,967
3	02	Products of forestry, logging and related services.....	2,571	0	0	2,018	0	124	1,893
4	03	Fish and other fishing products; aquaculture products.....	1,485	0	0	964	0	6	958
5	B	Mining and quarrying.....	90,084	8,905	11,179	7,581	0	239	3,074
6	05	Coal and lignite.....	51,732	7,560	9,209	1,203	0	67	721
7	06	Crude petroleum and natural gas.....	17,082	0	0	564	0	55	471
8	07-09	Metal ores, other mining and quarrying products.....	21,269	1,345	1,970	5,813	0	116	1,882
9	C	Manufactured products.....	10,233,510	776,239	177,178	6,963,422	4,919,545	146,871	51,572
10	10-12	Food products, beverages, tobacco products.....	224,602	3,383	5,699	38,318	0	1,289	5,097
11	13-15	Textiles, wearing apparel, leather and related products.....	40,867	772	0	7,501	0	219	870
12	16	Wood and products of wood and cork, except furniture.....	65,671	0	269	3,945	0	191	1,033
13	17	Paper and paper products.....	303,696	13,670	3,406	6,921	0	262	1,073
14	18	Printing and recording services.....	33,067	0	0	3,014	0	203	808
15	19	Coke and refined petroleum products.....	6,388,419	311,109	114,145	5,894,177	4,919,545	135,155	2,483
16	19.1	Coke oven products.....	346,182	298,268	0	22,404	0	3	13
17	19.2	Refined petroleum products.....	6,042,237	12,842	114,145	5,871,773	4,919,545	135,152	2,470
18	20	Chemicals and chemical products.....	1,486,563	4,088	10,512	836,324	0	927	3,883
19	21	Basic pharmaceutical products and pharmaceutical preparations.....	33,307	0	29	10,741	0	225	898
20	22	Rubber and plastic products.....	87,533	32	88	9,238	0	502	1,995
21	23	Other non-metallic mineral products.....	254,616	13,620	41,070	33,777	0	306	1,418
22	23.1	Glass and glass products.....	88,040	0	485	9,282	0	71	303
23	23.2-9	Refractory products, cut, shaped and finished stone.....	166,577	13,620	40,585	24,495	0	236	1,115
24	24	Basic metals.....	865,039	427,445	1,958	39,822	0	690	2,773
25	24.1-3	Basic iron and steel and ferro-alloys, other products of steel.....	725,950	416,024	1,264	32,480	0	386	1,562
26	24.4	Basic precious and other non-ferrous metals.....	92,537	3,183	596	5,427	0	211	840
27	24.5	Casting services of metal.....	46,552	8,238	98	1,915	0	93	371
28	25	Fabricated metal products, except machinery and equipment.....	105,889	341	1	17,336	0	877	3,998
29	26	Computer, electronic and optical products.....	32,681	0	0	5,431	0	501	2,070
30	27	Electrical equipment.....	34,156	490	0	7,516	0	839	3,617
31	28	Machinery and equipment n.e.c.....	91,859	201	0	19,026	0	1,535	6,826
32	29	Motor vehicles, trailers and semi-trailers.....	134,757	1,089	0	18,365	0	2,224	8,866
33	30	Other transport equipment.....	21,538	0	0	2,191	0	278	1,211
34	31-32	Furniture, other manufacture goods.....	17,565	0	0	5,358	0	272	1,161
35	33	Repair and installation services of machinery and equipment.....	11,686	0	0	4,421	0	375	1,494
36	D (35)	Electricity, gas, steam and air conditioning.....	6,275,329	1,300,233	1,501,031	116,662	0	712	3,320
37	35.1./3	Electricity, transmission and distribution services, steam.....	6,235,243	1,300,233	1,501,031	116,031	0	597	2,814
38	35.2	Manufactured gas.....	40,086	0	0	631	0	114	506
39	E	Water supply; sewerage, waste management and remediation services.....	92,203	0	0	58,743	0	3,386	53,313
40	36	Natural water; water treatment and supply services.....	17,933	0	0	553	0	98	435
41	37-39	Sewerage services; waste collection and materials recovery services.....	74,270	0	0	58,191	0	3,288	52,879
42	37	Sewerage services, sewerage sludge.....	8,847	0	0	5,726	0	922	4,792
43	38-39	Waste collection, treatment and disposal services.....	65,424	0	0	52,465	0	2,366	48,086
44	F	Constructions and construction works.....	216,314	267	7	186,348	0	7,107	57,113
45	41-42	Building and building construction works.....	152,946	120	3	139,331	0	3,704	27,978
46	43	Specialised construction works.....	63,368	146	4	47,017	0	3,403	29,134
47	G	Wholesale and retail trade services; repair services of motor vehicles.....	454,450	2,117	53	219,254	0	18,844	107,807
48	45	Wholesale and retail trade and repair services of motor vehicles.....	69,136	149	4	44,341	0	1,023	8,815
49	46	Wholesale trade services, except of motor vehicles and motorcycles.....	138,324	140	4	74,218	0	4,752	56,239
50	47	Retail trade services, except of motor vehicles and motorcycles.....	246,990	1,828	46	100,694	0	13,069	42,753
51	H	Transportation and storage services.....	923,013	0	0	809,733	0	5,713	344,703
52	49.1-2	Passenger rail transport services, freight rail transport services.....	71,163	0	0	24,077	0	30	21,636
53	49.3-5	Other passenger land transport services, transport service via pipeline.....	171,721	0	0	146,156	0	2,273	137,774
54	50	Water transport services.....	39,004	0	0	37,497	0	67	18,953
55	51	Air transport services.....	436,716	0	0	435,682	0	794	10,981
56	52	Warehousing and support services for transportation.....	154,400	0	0	123,114	0	1,101	115,345
57	53	Postal and courier services.....	50,010	0	0	43,208	0	1,448	40,013
58	I	Accommodation and food services.....	115,103	400	10	31,556	0	1,433	1,843
59	J	Information and communication services.....	99,952	0	0	51,218	0	4,224	34,026
60	K	Financial and insurance services.....	48,593	0	0	16,398	0	1,185	1,947
61	L	Real estate services.....	36,710	0	0	12,317	0	2,387	7,292
62	M	Professional, scientific and technical services.....	143,313	0	0	93,078	0	21,650	52,888
63	N	Administrative and support services.....	71,502	0	0	60,633	0	1,283	55,329
64	O	Public administration and defence services.....	144,596	1,481	1,456	68,263	0	10,154	18,150
65	P	Education services.....	133,538	242	6	24,177	0	268	1,247
66	Q	Human health and social work services.....	186,170	1,302	33	33,460	0	2,422	3,727
67	R-T	Other services.....	171,870	160	4	69,883	0	4,616	41,065
68		All homogeneous branches.....	19,578,893	2,092,322	1,690,981	8,922,193	4,919,545	237,864	904,234
69		Private households (residents consumption).....	3,950,906	15,407	16,998	2,047,712	0	1,006,723	383,233
70		All homogeneous branches and private households (residents concept) 3).....	23,529,798	2,107,729	1,707,978	10,969,906	4,919,545	1,244,587	1,287,468
71	+	Change in inventories.....	175,774	0	0	0	0	0	0
72	+	Losses due to flaring and distributions.....	36,667	24,273	610	75,087	27,464	2,027	-12,489
73	+	Exports and bunkering non-residents on the territory.....	2,449,721	58,932	16,226	1,439,669	30,190	259,306	460,295
74	+	Statistical discrepancies.....	99,327	-30,978	205	0	0	0	0
75	=	Total use (residents concept).....	26,291,288	2,159,957	1,725,019	12,484,662	4,977,199	1,505,920	1,735,273
76		Domestic production.....	13,057,974	1,024,833	1,723,085	5,670,333	153,451	1,372,363	1,465,910
77		Imports and bunkering of residents abroad.....	13,233,313	1,135,123	1,934	6,814,329	4,823,748	133,557	269,363

*) Including final energy consumption as well as transformation input, internal use of the energy sector, non-energy consumption and balance of bunkering (residents concept).

1) Statistical Classification of Products by Activity (CPA) of the European Union (2008 edition).

2) Including biogas and generation plants of other energy producers.

3) Corresponds to total of row 13 and 46 of table 3.1.2.

Table 3.2.3.2: Energy consumption of homogeneous branches by type of energy source 2005 (residents concept)*)
terajoules

Mineral oil				Gases	Renewable energies and other non-renewable energy sources					Electricity	Nuclear energy	Remote heating	No.
Air fuel	Light fuel oil	Heavy fuel oil	Other mineral oil products		Together	Water and wind power, solar energy plant and other ²⁾	Biomass	Renewable energies	non-renewable waste, waste heat, etc.				
0	25,874	0	2,403	10,932	10,044	0	5,338	4,706	0	20,390	0	810	1
0	25,874	0	2,403	10,932	10,010	0	5,304	4,706	0	19,350	0	810	2
0	0	0	0	0	33	0	33	0	0	520	0	0	3
0	0	0	0	0	1	0	1	0	0	520	0	0	4
0	2,176	565	1,527	20,004	203	0	203	0	0	40,355	0	1,857	5
0	287	13	115	884	25	0	25	0	0	31,032	0	1,820	6
0	38	0	0	14,238	30	0	30	0	0	2,246	0	3	7
0	1,851	552	1,412	4,881	149	0	149	0	0	7,076	0	34	8
454	189,148	333,587	1,322,245	1,050,507	280,122	0	172,500	63	107,559	868,366	0	117,676	9
0	21,392	9,163	1,377	101,557	3,490	0	1,977	52	1,460	65,851	0	6,304	10
0	5,748	480	185	18,033	69	0	63	6	0	13,176	0	1,316	11
0	1,541	1,001	178	12,346	30,643	0	30,642	1	0	16,937	0	1,531	12
0	2,652	2,478	457	83,703	107,485	0	27,747	0	79,738	78,646	0	9,866	13
0	1,956	0	47	10,339	54	0	53	1	0	17,400	0	2,260	14
454	59,055	114,370	663,115	39,886	364	0	135	0	229	26,006	0	2,732	15
0	0	0	22,388	24,369	1	0	1	0	0	1,141	0	0	16
454	59,055	114,370	640,727	15,517	363	0	134	0	229	24,865	0	2,732	17
0	44,443	168,299	618,772	317,209	95,228	0	81,968	0	13,260	179,967	0	43,235	18
0	1,113	0	8,506	8,990	2,003	0	503	0	1,500	7,719	0	3,824	19
0	5,426	314	1,001	20,187	2,742	0	1,924	0	818	51,110	0	4,136	20
0	8,902	11,370	11,781	86,615	33,244	0	23,110	0	10,134	45,672	0	619	21
0	630	5,949	2,329	59,695	712	0	710	0	2	17,708	0	157	22
0	8,272	5,421	9,451	26,920	32,531	0	22,399	0	10,132	27,964	0	462	23
0	3,418	25,653	7,288	230,446	709	0	510	0	199	163,604	0	1,054	24
0	933	24,540	5,059	194,209	274	0	251	0	22	81,362	0	337	25
0	1,414	1,032	1,930	23,145	411	0	234	0	177	59,365	0	410	26
0	1,070	81	299	13,092	24	0	24	0	0	22,878	0	307	27
0	10,341	74	2,045	34,738	434	0	397	0	37	43,421	0	9,617	28
0	2,859	0	1	5,995	142	0	141	1	0	18,548	0	2,564	29
0	3,018	40	2	2,501	242	0	240	1	0	20,961	0	2,447	30
0	9,970	189	506	29,939	576	0	574	0	2	37,416	0	4,701	31
0	2,872	116	4,288	35,775	1,116	0	1,106	0	10	63,424	0	14,988	32
0	701	0	1	6,966	78	0	78	0	0	7,025	0	5,278	33
0	3,697	40	188	5,202	1,406	0	1,233	1	172	4,395	0	1,203	34
0	43	0	2,508	79	99	0	99	0	0	7,087	0	0	35
0	20,242	37,003	55,385	883,723	498,823	173,131	221,509	496	103,686	181,645	1,778,594	14,619	36
0	20,232	37,003	55,384	851,232	498,799	173,131	221,486	496	103,686	174,704	1,778,594	14,619	37
0	10	0	0	32,491	23	0	23	0	0	6,940	0	0	38
0	1,479	284	280	1,136	7,660	0	7,660	0	0	24,470	0	194	39
0	20	0	0	10	19	0	19	0	0	17,350	0	0	40
0	1,459	284	280	1,125	7,640	0	7,640	0	0	7,120	0	194	41
0	10	0	2	13	328	0	328	0	0	2,780	0	0	42
0	1,449	284	278	1,113	7,312	0	7,312	0	0	4,340	0	194	43
0	21,576	0	100,552	13,280	2,192	0	2,179	13	0	12,560	0	1,660	44
0	9,926	0	97,723	5,986	1,096	0	1,090	6	0	5,660	0	750	45
0	11,651	0	2,829	7,295	1,096	0	1,089	7	0	6,900	0	910	46
0	65,241	0	27,362	91,694	7,592	0	7,572	20	0	116,362	0	17,378	47
0	10,286	0	24,217	10,742	630	0	630	0	0	11,020	0	2,250	48
0	13,217	0	10	23,281	4,721	0	4,721	1	0	31,611	0	4,350	49
0	41,737	0	3,135	57,671	2,240	0	2,221	19	0	73,731	0	10,779	50
423,886	6,855	16,360	12,217	8,223	23,547	0	23,546	0	0	74,470	0	7,039	51
0	393	0	2,018	370	1,261	0	1,261	0	0	45,315	0	140	52
0	50	0	6,059	546	9,323	0	9,323	0	0	15,695	0	0	53
0	0	16,360	2,117	0	1,507	0	1,507	0	0	0	0	0	54
423,886	20	0	0	20	1,014	0	1,014	0	0	0	0	0	55
0	4,648	0	2,020	5,593	7,824	0	7,824	0	0	11,620	0	6,249	56
0	1,744	0	3	1,694	2,618	0	2,618	0	0	1,840	0	650	57
0	24,322	0	3,958	25,681	137	0	124	13	0	43,781	0	13,539	58
0	12,959	0	9	15,734	2,535	0	2,528	7	0	25,291	0	5,174	59
0	13,263	0	3	13,902	153	0	151	3	0	12,840	0	5,300	60
0	2,633	0	5	3,066	456	0	456	0	0	19,700	0	1,170	61
0	17,079	3	1,459	17,710	2,905	0	2,902	3	0	21,210	0	8,409	62
0	4,019	0	3	5,013	426	0	426	1	0	3,860	0	1,570	63
1,252	35,298	13	3,397	30,636	480	0	463	17	0	30,601	0	11,679	64
0	22,651	11	1	51,675	101	0	93	8	0	16,410	0	40,926	65
0	27,302	5	5	64,010	238	0	224	14	0	41,321	0	45,806	66
0	24,191	2	10	42,869	2,425	0	2,424	1	0	35,511	0	21,018	67
425,592	516,306	387,832	1,530,821	2,349,796	840,038	173,131	450,298	5,364	211,246	1,589,144	1,778,594	315,824	68
0	628,974	0	28,781	987,825	220,616	0	209,430	11,187	0	508,680	0	153,667	69
425,592	1,145,280	387,832	1,559,602	3,337,621	1,060,655	173,131	659,727	16,551	211,246	2,097,824	1,778,594	469,491	70
0	0	0	0	29,721	1,267	0	1,267	0	0	105,732	0	39,055	71
6,204	42,842	10,925	-1,886	-63,303	0	0	0	0	0	0	0	0	72
152,309	47,421	309,031	181,117	711,716	0	0	0	0	0	222,926	0	251	73
0	0	0	0	130,100	1	0	0	0	1	0	0	0	74
584,105	1,235,543	707,788	1,738,833	4,145,854	1,061,922	173,131	660,994	16,551	211,246	2,426,483	1,778,594	508,797	75
181,983	775,882	553,330	1,167,414	834,937	1,061,922	173,131	660,994	16,550	211,246	2,234,066	0	508,797	76
402,122	459,661	154,458	571,419	3,310,917	0	0	0	0	0	192,416	1,778,594	0	77

Table 3.2.3.3: Energy consumption of homogeneous branches by type of energy source 2012 (residents concept)*)

terajoules

No.	CPA ¹⁾	Homogeneous branches	Total	Hard coal and hard coal products	Lignite and lignite products	Mineral oil			
						Together	Crude oil	Motor gasoline	Gas-diesel oil
1	A	Products of agriculture, forestry and fishing.....	188,136	100	0	114,466	0	2,298	78,354
2	01	Products of agriculture, hunting and related services.....	183,628	100	0	111,206	0	2,220	75,174
3	02	Products of forestry, logging and related services.....	2,896	0	0	2,255	0	70	2,183
4	03	Fish and other fishing products; aquaculture products.....	1,612	0	0	1,006	0	8	997
5	B	Mining and quarrying.....	67,753	1,533	12,555	4,106	0	79	2,407
6	05	Coal and lignite.....	40,613	1,417	10,455	757	0	15	596
7	06	Crude petroleum and natural gas.....	11,049	0	0	548	0	17	525
8	07-09	Metal ores, other mining and quarrying products.....	16,091	116	2,100	2,801	0	46	1,287
9	C	Manufactured products.....	9,097,896	809,175	229,145	5,744,993	4,041,554	67,510	60,018
10	10-12	Food products, beverages, tobacco products.....	225,161	4,145	5,562	21,711	0	809	5,894
11	13-15	Textiles, wearing apparel, leather and related products.....	24,207	0	0	2,760	0	110	800
12	16	Wood and products of wood and cork, except furniture.....	68,321	0	163	3,132	0	118	1,148
13	17	Paper and paper products.....	229,984	7,667	6,257	3,934	0	182	1,332
14	18	Printing and recording services.....	27,010	0	0	1,673	0	106	770
15	19	Coke and refined petroleum products.....	5,386,488	316,474	143,183	4,837,549	4,041,554	59,900	2,966
16	19.1	Coke oven products.....	356,959	301,165	0	31,741	0	6	42
17	19.2	Refined petroleum products.....	5,029,529	15,309	143,183	4,805,808	4,041,554	59,894	2,924
18	20	Chemicals and chemical products.....	1,432,427	13,134	24,660	755,989	0	610	4,557
19	21	Basic pharmaceutical products and pharmaceutical preparations.....	12,925	0	58	3,619	0	158	1,148
20	22	Rubber and plastic products.....	90,243	0	263	7,715	0	334	2,441
21	23	Other non-metallic mineral products.....	280,050	16,779	45,200	22,300	0	219	1,817
22	23.1	Glass and glass products.....	83,141	0	0	5,173	0	46	335
23	23.2-9	Refractory products, cut, shaped and finished stone.....	196,909	16,779	45,200	17,127	0	173	1,481
24	24	Basic metals.....	862,860	449,505	3,799	18,281	0	525	3,828
25	24.1-3	Basic iron and steel and ferro-alloys, other products of steel.....	743,829	438,273	3,439	9,986	0	276	2,020
26	24.4	Basic precious and other non-ferrous metals.....	70,504	799	360	4,313	0	179	1,301
27	24.5	Casting services of metal.....	48,528	10,433	0	3,982	0	69	507
28	25	Fabricated metal products, except machinery and equipment.....	109,157	647	0	14,406	0	608	4,706
29	26	Computer, electronic and optical products.....	33,509	0	0	3,931	0	312	2,278
30	27	Electrical equipment.....	37,212	251	0	5,781	0	458	3,376
31	28	Machinery and equipment n.e.c.....	93,982	86	0	18,712	0	1,053	8,024
32	29	Motor vehicles, trailers and semi-trailers.....	125,626	487	0	13,728	0	1,393	10,195
33	30	Other transport equipment.....	14,176	0	0	1,753	0	158	1,227
34	31-32	Furniture, other manufacture goods.....	29,375	0	0	5,222	0	228	1,711
35	33	Repair and installation services of machinery and equipment.....	15,182	0	0	2,796	0	230	1,799
36	D (35)	Electricity, gas, steam and air conditioning.....	5,808,242	1,143,695	1,536,047	71,712	0	675	5,318
37	35.1-/3	Electricity, transmission and distribution services, steam.....	5,780,844	1,143,695	1,536,047	70,325	0	516	4,108
38	35.2	Manufactured gas.....	27,398	0	0	1,386	0	158	1,210
39	E	Water supply; sewerage, waste management and remediation services.....	93,093	0	0	52,576	0	2,391	49,239
40	36	Natural water; water treatment and supply services.....	21,571	0	0	875	0	48	766
41	37-39	Sewerage services; waste collection and materials recovery services.....	71,522	0	0	51,701	0	2,344	48,473
42	37	Sewerage services, sewerage sludge.....	9,098	0	0	5,445	0	596	4,824
43	38-39	Waste collection, treatment and disposal services.....	62,424	0	0	46,256	0	1,748	43,649
44	F	Constructions and construction works.....	249,442	0	0	218,329	0	3,386	65,090
45	41-42	Building and building construction works.....	174,128	0	0	163,690	0	1,475	23,883
46	43	Specialised construction works.....	75,313	0	0	54,639	0	1,911	41,208
47	G	Wholesale and retail trade services; repair services of motor vehicles.....	379,662	328	0	174,077	0	15,322	107,740
48	45	Wholesale and retail trade and repair services of motor vehicles.....	42,395	128	0	15,876	0	581	7,947
49	46	Wholesale trade services, except of motor vehicles and motorcycles.....	111,819	44	0	66,220	0	4,217	55,868
50	47	Retail trade services, except of motor vehicles and motorcycles.....	225,448	156	0	91,981	0	10,525	43,925
51	H	Transportation and storage services.....	889,924	0	0	783,566	0	4,186	361,342
52	49.1-2	Passenger rail transport services, freight rail transport services.....	55,540	0	0	18,842	0	21	18,709
53	49.3-5	Other passenger land transport services, transport service via pipeline.....	161,154	0	0	137,478	0	1,652	135,721
54	50	Water transport services.....	50,445	0	0	48,363	0	77	28,370
55	51	Air transport services.....	407,947	0	0	406,525	0	643	12,209
56	52	Warehousing and support services for transportation.....	168,406	0	0	131,845	0	810	127,520
57	53	Postal and courier services.....	46,432	0	0	40,513	0	984	38,814
58	I	Accommodation and food services.....	105,515	57	0	29,648	0	1,077	2,746
59	J	Information and communication services.....	80,869	0	0	32,340	0	2,396	24,490
60	K	Financial and insurance services.....	37,806	0	0	9,562	0	747	3,420
61	L	Real estate services.....	41,878	0	0	13,723	0	1,869	10,661
62	M	Professional, scientific and technical services.....	142,682	0	0	90,405	0	13,468	66,733
63	N	Administrative and support services.....	76,839	0	0	62,089	0	753	58,328
64	O	Public administration and defence services.....	134,075	759	1,346	46,561	0	4,802	20,198
65	P	Education services.....	96,019	262	0	17,582	0	258	1,499
66	Q	Human health and social work services.....	163,350	870	0	29,714	0	3,026	7,157
67	R-T	Other services.....	126,504	178	0	57,269	0	3,211	40,800
68		All homogeneous branches.....	17,779,687	1,956,956	1,779,093	7,552,716	4,041,554	127,454	965,541
69		Private households (residents consumption).....	3,758,090	12,000	19,079	1,800,748	0	797,670	480,175
70		All homogeneous branches and private households (residents concept) 3).....	21,537,777	1,968,956	1,798,172	9,353,464	4,041,554	925,124	1,445,715
71	+	Change in inventories.....	149,165	0	0	0	0	0	0
72	+	Losses due to flaring and distributions.....	555	-15,131	-107	33,603	37,941	-4,026	-12,573
73	+	Exports and bunkering non-residents on the territory.....	2,104,296	71,098	32,708	1,117,724	8,261	223,960	261,848
74	+	Statistical discrepancies.....	22,520	35,971	-8,784	-1	0	0	0
75	=	Total use (residents concept).....	23,814,312	2,060,894	1,821,989	10,504,789	4,087,756	1,145,058	1,694,991
76		Domestic production.....	12,123,709	603,816	1,820,775	4,675,474	110,776	956,400	1,198,341
77		Imports and bunkering of residents abroad.....	11,690,600	1,457,078	1,214	5,829,315	3,976,980	188,658	496,650

*) Including final energy consumption as well as transformation input, internal use of the energy sector, non-energy consumption and balance of bunkering (residents concept).

1) Statistical Classification of Products by Activity (CPA) of the European Union (2008 edition).

2) Including biogas and generation plants of other energy producers.

3) Corresponds to total of row 13 and 46 of table 3.1.2.

Table 3.2.3.3: Energy consumption of homogeneous branches by type of energy source 2012 (residents concept)*)

terajoules

Mineral oil				Gases	Renewable energies and other non-renewable energy sources					Electricity	Nuclear energy	Remote heating	No.
Air fuel	Light fuel oil	Heavy fuel oil	Other mineral oil products		Together	Water and wind power, solar energy plant and other ²⁾	Biomass	Renewable energies	non-renewable waste, waste heat, etc.				
0	32,126	0	1,688	6,069	41,793	0	39,271	2,522	0	25,468	0	240	1
0	32,126	0	1,685	6,068	41,750	0	39,228	2,522	0	24,263	0	240	2
0	0	0	2	1	39	0	39	0	0	602	0	0	3
0	0	0	0	0	5	0	5	0	0	602	0	0	4
0	965	51	605	12,349	714	0	238	0	476	30,864	0	5,631	5
0	126	20	0	1	521	0	45	0	476	21,909	0	5,552	6
0	6	0	0	7,999	50	0	50	0	0	2,431	0	21	7
0	833	31	604	4,348	143	0	143	0	0	6,524	0	58	8
4	143,881	250,671	1,181,355	1,056,441	175,021	0	92,914	4	82,103	865,515	0	217,607	9
0	12,617	1,572	819	111,909	3,595	0	3,116	0	479	69,243	0	8,996	10
0	1,564	283	3	12,146	64	0	63	1	0	9,017	0	220	11
0	1,219	585	62	7,320	35,809	0	35,809	1	0	16,463	0	5,434	12
0	1,751	333	335	78,345	31,043	0	30,151	0	892	73,589	0	29,150	13
0	795	0	3	9,623	58	0	58	1	0	13,034	0	2,622	14
4	49,687	69,309	614,129	58,553	570	0	543	0	27	24,983	0	5,176	15
0	0	0	31,693	22,970	3	0	3	0	0	1,080	0	0	16
4	49,687	69,309	582,436	35,583	566	0	539	0	27	23,903	0	5,176	17
0	39,763	173,545	537,514	314,152	47,192	0	1,844	0	45,348	180,544	0	96,756	18
0	574	0	1,738	2	1,686	0	1,032	0	654	7,560	0	0	19
0	3,542	110	1,289	19,994	988	0	930	0	58	56,251	0	5,032	20
0	6,077	3,925	10,262	102,784	47,496	0	13,200	0	34,296	44,813	0	679	21
0	787	2,835	1,170	60,092	47	0	26	0	21	17,571	0	258	22
0	5,290	1,091	9,092	42,692	47,448	0	13,173	0	34,275	27,242	0	421	23
0	1,708	964	11,256	220,256	576	0	308	0	268	143,217	0	27,226	24
0	418	333	6,939	183,187	151	0	151	0	0	82,360	0	26,433	25
0	576	631	1,626	23,542	388	0	120	0	268	40,528	0	574	26
0	714	0	2,692	13,526	38	0	38	0	0	20,330	0	219	27
0	6,863	0	2,230	35,958	1,242	0	1,225	0	17	54,115	0	2,789	28
0	1,194	0	146	5,905	171	0	170	1	0	20,232	0	3,270	29
0	1,836	0	111	6,086	252	0	251	1	0	22,939	0	1,902	30
0	9,010	44	580	25,518	1,018	0	1,011	0	7	43,027	0	5,622	31
0	1,889	0	250	32,020	1,276	0	1,275	0	1	59,691	0	18,424	32
0	364	0	4	6,026	88	0	88	0	0	5,204	0	1,104	33
0	2,781	0	502	6,823	1,761	0	1,705	0	56	12,526	0	3,043	34
0	646	0	121	3,021	137	0	137	0	0	9,068	0	160	35
0	13,780	24,993	26,947	821,792	958,802	355,698	450,940	5,144	147,019	171,242	1,085,011	19,941	36
0	13,766	24,993	26,942	806,524	956,644	355,698	448,783	5,144	147,019	162,656	1,085,011	19,941	37
0	14	0	4	15,268	2,157	0	2,157	0	0	8,586	0	0	38
0	554	323	68	515	13,605	0	12,042	0	1,563	26,338	0	60	39
0	59	0	1	10	56	0	56	0	0	20,630	0	0	40
0	495	323	66	504	13,548	0	11,985	0	1,563	5,709	0	60	41
0	9	0	16	16	314	0	314	0	0	3,323	0	0	42
0	486	323	50	488	13,235	0	11,672	0	1,563	2,385	0	60	43
0	14,518	0	135,335	14,324	2,777	0	2,777	0	0	13,872	0	140	44
0	4,994	0	133,338	4,450	887	0	887	0	0	5,062	0	40	45
0	9,524	0	1,996	9,874	1,890	0	1,890	0	0	8,810	0	100	46
0	48,439	0	2,575	76,730	8,748	0	8,748	0	0	116,560	0	3,220	47
0	7,332	0	16	11,676	684	0	684	0	0	13,521	0	510	48
0	6,019	0	116	10,544	5,604	0	5,604	0	0	28,808	0	600	49
0	35,088	0	2,443	54,510	2,460	0	2,460	0	0	74,232	0	2,110	50
393,533	4,491	19,901	113	8,768	31,008	0	31,008	0	0	64,513	0	2,070	51
0	112	0	1	310	1,545	0	1,545	0	0	34,802	0	40	52
0	59	0	45	117	11,693	0	11,693	0	0	11,865	0	0	53
0	0	19,901	15	1	2,082	0	2,082	0	0	0	0	0	54
393,533	138	0	2	21	1,401	0	1,401	0	0	0	0	0	55
0	3,494	0	22	6,398	11,582	0	11,582	0	0	16,770	0	1,810	56
0	688	0	27	1,920	2,704	0	2,704	0	0	1,076	0	220	57
0	23,053	0	2,771	23,171	191	0	191	0	0	49,939	0	2,510	58
0	5,387	0	66	15,035	2,114	0	2,114	0	0	29,761	0	1,620	59
0	5,375	0	21	14,958	255	0	255	0	0	11,332	0	1,700	60
0	1,141	0	51	3,189	700	0	700	0	0	23,906	0	360	61
0	8,853	1	1,349	21,140	3,957	0	3,957	0	0	24,601	0	2,580	62
0	2,987	0	21	6,468	399	0	399	0	0	6,964	0	920	63
573	18,586	-2	2,404	33,881	11,359	0	10,789	571	0	35,640	0	4,530	64
0	15,814	5	7	41,103	3,978	0	3,607	371	0	20,865	0	12,229	65
0	19,445	2	83	65,362	6,757	0	6,129	628	0	51,557	0	9,089	66
0	13,169	1	88	20,984	8,398	0	7,776	622	0	33,647	0	6,029	67
394,110	372,565	295,947	1,355,546	2,242,278	1,270,574	355,698	673,853	9,862	231,161	1,602,584	1,085,011	290,474	68
0	477,633	0	45,270	924,740	337,568	0	287,894	49,674	0	493,200	0	170,756	69
394,110	850,198	295,947	1,400,816	3,167,018	1,608,142	355,698	961,747	59,536	231,161	2,095,784	1,085,011	461,230	70
0	0	0	0	19,025	1,045	0	1,045	0	0	88,422	0	40,673	71
7,788	-12,037	16,194	316	-17,810	0	0	0	0	0	0	0	0	72
222,870	82,565	157,258	160,962	598,714	41,497	0	41,497	0	0	242,122	0	433	73
0	0	0	-1	-11,450	6,784	0	6,784	0	0	0	0	0	74
624,767	920,726	469,399	1,562,093	3,755,497	1,657,468	355,698	1,011,073	59,536	231,161	2,426,328	1,085,011	502,336	75
221,270	674,385	366,508	1,147,794	645,295	1,608,686	355,698	962,293	59,536	231,159	2,267,327	0	502,336	76
403,497	246,341	102,891	414,299	3,110,201	48,779	0	48,779	0	0	159,001	1,085,011	0	77

Table 3.2.4: Transformation sectors: transformation input and output^{*)}

No.	Transformation sectors	1995	2000	2005	2010	2011	2012
transformation input (petajoules)							
1	Coking plants.....	445	353	326	352	342	338
2	Hard and brown coal briquetting plants.....	206	113	111	126	141	138
3	Heat power stations.....	3,363	3,336	3,447	3,335	3,274	3,334
4	Nuclear power stations.....	1,681	1,851	1,779	1,533	1,178	1,085
5	Water and wind power station and other plants 1).....	104	149	311	642	734	643
6	Thermal power station.....	387	353	540	575	539	556
7	Blast furnaces.....	168	166	167	144	165	161
8	Refineries.....	4,895	4,992	5,302	4,338	4,279	4,319
9	Other energy producer 2).....	201	305	374	413	414	285
10	Total.....	11,450	11,617	12,357	11,458	11,066	10,858
transformation output (petajoules)							
11	Coking plants.....	433	359	312	317	333	342
12	Hard and brown coal briquetting plants.....	188	111	110	129	143	140
13	Heat power stations.....	1,282	1,319	1,423	1,401	1,382	1,401
14	Nuclear power stations.....	555	611	587	506	389	358
15	Water and wind power station and other plants 1).....	99	141	224	354	421	508
16	Thermal power station.....	417	313	509	535	486	502
17	Blast furnaces.....	182	180	181	183	177	172
18	Refineries.....	4,878	4,958	5,235	4,307	4,245	4,279
19	Other energy producer 2).....	198	314	378	436	426	298
20	Total.....	8,232	8,307	8,959	8,167	8,002	8,000
output of transformation (as a percentage)							
21	Coking plants.....	5.3	4.3	3.5	3.9	4.2	4.3
22	Hard and brown coal briquetting plants.....	2.3	1.3	1.2	1.6	1.8	1.7
23	Heat power stations.....	15.6	15.9	15.9	17.2	17.3	17.5
24	Nuclear power stations.....	6.7	7.4	6.6	6.2	4.9	4.5
25	Water and wind power station and other plants 1).....	1.2	1.7	2.5	4.3	5.3	6.4
26	Thermal power station.....	5.1	3.8	5.7	6.5	6.1	6.3
27	Blast furnaces.....	2.2	2.2	2.0	2.2	2.2	2.1
28	Refineries.....	59.3	59.7	58.4	52.7	53.1	53.5
29	Other energy producer 2).....	2.4	3.8	4.2	5.3	5.3	3.7
30	Total.....	100	100	100	100	100	100
transformation efficiency (output/input as a percentage)							
31	Coking plants.....	97.1	101.6	95.7	90.1	97.2	101.2
32	Hard and brown coal briquetting plants.....	91.5	98.0	99.3	102.0	101.6	101.6
33	Heat power stations.....	38.1	39.5	41.3	42.0	42.2	42.0
34	Nuclear power stations.....	33.0	33.0	33.0	33.0	33.0	33.0
35	Water and wind power station and other plants 1).....	95.1	94.7	71.9	55.1	57.4	79.0
36	Thermal power station.....	107.6	88.9	94.2	93.1	90.1	90.3
37	Blast furnaces.....	108.3	108.6	108.5	126.9	106.9	106.9
38	Refineries.....	99.7	99.3	98.7	99.3	99.2	99.1
39	Other energy producer 2).....	98.7	103.1	101.0	105.5	103.0	104.4
40	Total.....	71.9	71.5	72.5	71.3	72.3	73.7

*) Source: energy balances (Arbeitsgemeinschaft Energiebilanzen, www.ag-energiebilanzen.de).

1) Including biogas and generation plants of other energy producers.

2) Without electricity generation plants.

Table 3.2.5: Generation of electricity: consumption of fuels and gross generation of electricity by type of power stations

No.	Type of power stations	1995	2000	2005	2010	2011	2012
transformation input (petajoules)							
1	Public heat power stations.....	2,728	2,885	3,023	2,915	2,887	3,008
2	Industry power stations.....	635	451	424	420	387	326
3	Nuclear power stations.....	1,681	1,851	1,779	1,533	1,178	1,085
4	Water, wind power stations and other.....	104	149	311	642	734	643
5	Water power stations.....	98	114	105	106	92	108
6	Wind power stations and others 1).....	6	35	207	536	642	535
7	Total.....	5,148	5,335	5,537	5,511	5,186	5,061
memorandum item:							
8	Internal consumption of power stations.....	138	137	140	132	125	133
gross generation of electricity (petajoules)							
9	Public heat power stations.....	1,030	1,137	1,244	1,212	1,201	1,244
10	Industry power stations.....	252	182	179	189	181	157
11	Nuclear power stations.....	555	611	587	506	389	358
12	Water, wind power stations and other.....	99	141	224	354	421	508
13	Water power stations.....	94	106	96	98	85	99
14	Wind power stations and others 1).....	5	35	128	256	337	409
15	Total.....	1,936	2,071	2,234	2,261	2,192	2,267
gross generation of electricity (as a percentage)							
16	Public heat power stations.....	53.2	54.9	55.7	53.6	54.8	54.9
17	Industry power stations.....	13.0	8.8	8.0	8.4	8.3	6.9
18	Nuclear power stations.....	28.6	29.5	26.3	22.4	17.7	15.8
19	Water, wind power stations and other.....	5.1	6.8	10.0	15.7	19.2	22.4
20	Water power stations.....	4.9	5.1	4.3	4.4	3.9	4.4
21	Wind power stations and others 1).....	0.3	1.7	5.7	11.3	15.4	18.1
22	Total.....	100	100	100	100	100	100
efficiency (gross generation/transformation input [as a percentage])							
23	Public heat power stations.....	37.8	39.4	41.2	41.6	41.6	41.4
24	Industry power stations.....	39.7	40.4	42.2	45.0	46.8	48.3
25	Nuclear power stations.....	33.0	33.0	33.0	33.0	33.0	33.0
26	Water, wind power stations and other.....	95.1	94.7	71.9	55.1	57.4	79.0
27	Water power stations.....	95.6	93.1	91.8	92.5	92.3	91.7
28	Wind power stations and others 1).....	87.3	100.0	61.8	47.7	52.4	76.5
29	Total.....	37.6	38.8	40.3	41.0	42.3	44.8
efficiency (gross generation/transformation input [2005 = 100])							
30	Public heat power stations.....	91.7	95.7	100	101.0	101.1	100.5
31	Industry power stations.....	94.1	95.7	100	106.5	110.7	114.5
32	Nuclear power stations.....	100.0	100.0	100	100.0	100.0	100.0
33	Wind power stations and others 1).....	132.3	131.8	100	76.7	79.9	110.0
34	Total.....	104.1	101.4	100	100.8	100.6	100.0

1) Including biogas and generation plants of other energy producers.

Table 3.2.6: Generation of electricity and input of fuels by type of energy sources

No.	Energy sources	1995	2000	2005	2010	2011	2012
transformation input (petajoules)							
1	Water, wind, solar power and other 1).....	104	149	311	642	734	643
2	Nuclear power	1,681	1,851	1,779	1,533	1,178	1,085
3	Hard coal.....	1,332	1,268	1,161	1,012	961	1,007
4	Brown coal (lignite).....	1,455	1,420	1,458	1,364	1,410	1,495
5	Natural gas.....	341	391	497	576	538	466
6	Mineral oil products.....	97	82	103	72	61	55
7	Other energy sources.....	138	175	227	311	304	311
8	Total.....	5,148	5,335	5,537	5,511	5,186	5,061
gross generation of electricity (petajoules)							
9	Water, wind, solar power and other 1).....	99	141	224	354	421	508
10	Nuclear power	555	611	587	506	389	358
11	Hard coal.....	530	515	483	421	405	419
12	Brown coal (lignite).....	513	534	555	525	540	579
13	Natural gas.....	148	177	256	312	297	275
14	Mineral oil products.....	33	19	42	30	24	27
15	Other energy sources.....	59	74	89	112	115	101
16	Total.....	1,936	2,071	2,234	2,261	2,192	2,267
gross generation of electricity (as a percentage of total output)							
17	Water, wind, solar power and other 1).....	5.1	6.8	10.0	15.7	19.2	22.4
18	Nuclear power	28.6	29.5	26.3	22.4	17.7	15.8
19	Hard coal.....	27.3	24.9	21.6	18.6	18.5	18.5
20	Brown coal (lignite).....	26.5	25.8	24.8	23.2	24.7	25.5
21	Natural gas.....	7.6	8.6	11.4	13.8	13.5	12.1
22	Mineral oil products.....	1.7	0.9	1.9	1.3	1.1	1.2
23	Other energy sources.....	3.0	3.6	4.0	5.0	5.3	4.5
24	Total.....	100	100	100	100	100	100
efficiency (gross generation/transformation input (as a percentage))							
25	Water, wind, solar power and other 1).....	95.1	94.7	71.9	55.1	57.4	79.0
26	Nuclear power	33.0	33.0	33.0	33.0	33.0	33.0
27	Hard coal.....	39.7	40.6	41.6	41.6	42.1	41.6
28	Brown coal (lignite).....	35.3	37.6	38.1	38.5	38.3	38.7
29	Natural gas.....	43.4	45.3	51.4	54.3	55.2	59.0
30	Mineral oil products.....	33.7	22.7	40.3	41.8	40.2	50.0
31	Other energy sources.....	42.6	42.5	38.9	36.0	38.0	32.6
32	Total.....	37.6	38.8	40.3	41.0	42.3	44.8

1) Including biogas and generation plants of other energy producers.

Table: 3.3.1: Consumption of primary energy^{*)}

- transformation losses and internal use of energy of electrical power stations allocated to final users of electricity and heat -
terajoules

No.	CPA ¹⁾	Homogeneous branches	1995	2000	2005	2010	2011	2012
1	A	Products of agriculture, forestry and fishing.....	279,536	184,282	180,363	226,086	215,583	227,747
2	01	Products of agriculture, hunting and related services.....	270,258	177,819	174,383	219,090	209,151	221,366
3	02	Products of forestry, logging and related services.....	5,967	3,775	3,533	4,189	3,867	3,832
4	03	Fish and other fishing products; aquaculture products.....	3,310	2,689	2,447	2,807	2,565	2,548
5	B	Mining and quarrying.....	171,371	103,729	103,173	91,270	107,679	77,899
6	05	Coal and lignite.....	87,867	43,987	51,732	46,058	67,138	40,613
7	06	Crude petroleum and natural gas.....	21,593	23,671	17,082	11,201	11,406	11,049
8	07-09	Metal ores, other mining and quarrying products.....	61,911	36,071	34,358	34,011	29,135	26,237
9	C	Manufactured products.....	5,199,596	5,308,076	5,593,742	5,385,067	5,372,998	5,200,154
10	10-12	Food products, beverages, tobacco products.....	335,891	336,782	346,721	347,415	336,052	333,889
11	13-15	Textiles, wearing apparel, leather and related products.....	108,278	93,745	82,349	66,150	66,738	65,535
12	16	Wood and products of wood and cork, except furniture.....	67,015	67,744	87,397	102,067	108,321	83,228
13	17	Paper and paper products.....	296,031	310,014	449,702	385,778	366,975	347,996
14	18	Printing and recording services.....	48,064	52,386	49,959	46,092	45,681	46,143
15	19	Coke and refined petroleum products.....	361,567	357,921	434,567	348,581	344,526	327,800
16	19.1	Coke oven products.....	77,505	56,287	50,253	69,766	42,926	33,158
17	19.2	Refined petroleum products.....	284,062	301,634	384,313	278,815	301,601	294,642
18	20	Chemicals and chemical products.....	1,507,411	1,575,345	1,691,217	1,721,997	1,721,886	1,678,544
19	21	Basic pharmaceutical products and pharmaceutical preparations.....	112,240	137,003	97,380	79,431	77,148	71,243
20	22	Rubber and plastic products.....	157,906	169,651	182,232	196,116	184,083	178,285
21	23	Other non-metallic mineral products.....	434,779	404,691	339,038	359,082	370,565	349,771
22	23.1	Glass and glass products.....	141,597	137,398	120,754	120,053	120,753	110,477
23	23.2-9	Refractory products, cut, shaped and finished stone.....	293,182	267,293	218,284	239,028	249,812	239,294
24	24	Basic metals.....	1,001,756	1,047,246	1,001,923	932,372	959,946	938,879
25	24.1-3	Basic iron and steel and ferro-alloys, other products of steel.....	749,249	771,271	710,831	695,762	731,105	725,177
26	24.4	Basic precious and other non-ferrous metals.....	199,085	215,598	227,499	178,195	170,963	158,958
27	24.5	Casting services of metal.....	53,422	60,377	63,592	58,415	57,877	54,744
28	25	Fabricated metal products, except machinery and equipment.....	156,416	158,106	170,958	177,615	178,907	171,724
29	26	Computer, electronic and optical products.....	65,413	63,432	59,051	54,076	54,422	54,774
30	27	Electrical equipment.....	90,869	82,063	83,923	79,413	82,316	80,281
31	28	Machinery and equipment n.e.c.....	168,759	153,950	161,323	168,270	162,732	161,552
32	29	Motor vehicles, trailers and semi-trailers.....	208,947	220,299	254,110	222,101	217,121	214,565
33	30	Other transport equipment.....	32,178	30,480	33,761	30,975	28,509	28,524
34	31-32	Furniture, other manufacture goods.....	39,923	40,796	41,680	45,212	45,492	45,463
35	33	Repair and installation services of machinery and equipment.....	6,152	6,422	26,453	22,323	21,579	21,956
36	D (35)	Electricity, gas, steam and air conditioning.....	22,629	25,074	70,961	72,554	65,139	70,614
37	35.1-/3	Electricity, transmission and distribution services, steam.....	4,630	3,944	18,056	23,191	22,801	29,874
38	35.2	Manufactured gas.....	18,000	21,131	52,905	49,363	42,338	40,740
39	E	Water supply; sewerage, waste management and remediation services..	166,505	172,429	131,381	150,018	138,384	134,022
40	36	Natural water; water treatment and supply services.....	58,258	57,317	49,980	57,981	53,798	53,628
41	37-39	Sewerage services; waste collection and materials recovery services..	108,247	115,112	81,401	92,037	84,585	80,394
42	37	Sewerage services, sewerage sludge.....	15,013	17,667	13,970	15,512	14,557	14,262
43	38-39	Waste collection, treatment and disposal services.....	93,234	97,446	67,431	76,525	70,028	66,132
44	F	Constructions and construction works.....	342,370	295,413	239,630	286,094	295,985	271,023
45	41-42	Building and building construction works.....	248,236	211,242	163,458	197,231	206,979	182,004
46	43	Specialised construction works.....	94,135	84,171	76,171	88,863	89,006	89,019
47	G	Wholesale and retail trade services; repair services of motor vehicles...	730,220	734,155	670,628	602,904	566,404	561,190
48	45	Wholesale and retail trade and repair services of motor vehicles.....	104,913	110,203	89,660	67,302	62,681	63,464
49	46	Wholesale trade services, except of motor vehicles and motorcycles..	198,661	206,158	197,017	164,904	157,716	156,659
50	47	Retail trade services, except of motor vehicles and motorcycles.....	426,646	417,794	383,951	370,699	346,007	341,067
51	H	Transportation and storage services.....	908,677	1,011,772	1,061,101	1,110,903	1,038,346	990,431
52	49.1-2	Passenger rail transport services, freight rail transport services.....	175,048	162,190	154,893	153,242	146,413	109,620
53	49.3-5	Other passenger land transport services, transport service via pipeline	164,831	190,201	200,729	197,872	195,302	179,592
54	50	Water transport services.....	82,423	56,235	39,004	75,512	68,215	50,445
55	51	Air transport services.....	297,617	379,082	436,716	430,160	381,639	407,947
56	52	Warehousing and support services for transportation.....	139,778	168,965	176,313	205,419	198,301	194,699
57	53	Postal and courier services.....	48,980	55,099	53,446	48,698	48,475	48,129
58	I	Accommodation and food services.....	172,016	192,632	196,944	203,000	190,007	183,434
59	J	Information and communication services.....	110,506	133,748	140,270	142,014	128,400	127,318
60	K	Financial and insurance services.....	81,712	80,285	72,673	65,344	55,925	55,626
61	L	Real estate services.....	65,182	79,334	73,185	84,878	77,718	79,071
62	M	Professional, scientific and technical services.....	150,047	171,976	183,086	199,373	185,699	181,239
63	N	Administrative and support services.....	23,364	86,842	78,749	94,265	92,373	87,772
64	O	Public administration and defence services.....	267,205	233,588	201,943	216,946	191,931	190,024
65	P	Education services.....	160,997	157,439	166,688	162,207	140,518	129,976
66	Q	Human health and social work services.....	211,843	231,874	265,674	282,608	249,900	244,612
67	R-T	Other services.....	243,619	261,136	238,925	203,739	181,735	179,540
68		All homogeneous branches.....	9,307,396	9,463,785	9,669,113	9,579,269	9,294,722	8,991,692
69		Private households (residents consumption).....	4,890,619	4,821,034	4,901,378	4,920,204	4,517,767	4,545,904
70		All homogeneous branches and private households (residents concept)	14,198,015	14,284,819	14,570,491	14,499,473	13,812,490	13,537,596
71		Balance of bunkering 2).....	-109,982	-107,255	-287,234	-319,339	-282,539	-262,223
72		Statistical discrepancies 3).....	16,481	52,406	99,327	-115,309	-78,646	22,520
73		Losses due to flaring and distributions 4).....	164,457	170,832	175,774	151,931	148,031	149,165
74		All homogeneous branches and private households (domestic concept) 5	14,268,971	14,400,803	14,558,358	14,216,756	13,599,336	13,447,057

*) Allocation of transformation losses and internal consumption of power stations to final consumers.

1) Statistical Classification of Products by Activity (CPA) of the European Union (2008 edition).

2) Bunkering of residents abroad minus bunkering of non-residents on the national territory.

3) Difference between total supply and total use of energy.

4) Losses due flaring and distributions are not attributed to consumers.

5) Corresponds to primary energy consumption from energy balance.

Table 3.3.2: Intensity of primary energy consumption ^{*)}**- energy consumption including transformation losses and internal use of energy sectors -**

Energy consumption per gross value added (price-adjusted) (2005 = 100)

No.	CPA ¹⁾	Homogeneous branches	2000	2005	2009	2010	2011
1	A	Products of agriculture, forestry and fishing.....	76.6	100	116.4	119.8	99.7
2	B	Mining and quarrying.....	75.9	100	74.7	71.6	82.6
3	C	Manufactured products.....	97.5	100	97.8	91.0	84.6
4	D (35)	Electricity, gas, steam and air conditioning.....	40.6	100	88.7	102.2	98.1
5	E	Water supply; sewerage, waste management and remediation services.....	138.4	100	117.5	108.9	93.5
6	F	Constructions and construction works.....	97.5	100	101.4	98.3	96.2
7	G	Wholesale and retail trade services; repair services of motor vehicles.....	113.7	100	88.6	96.4	86.3
8	H	Transportation and storage services.....	102.2	100	103.4	97.7	89.7
9	I	Accommodation and food services.....	97.8	100	83.3	98.2	86.7
10	J	Information and communication services.....	95.1	100	87.3	93.1	77.7
11	K	Financial and insurance services.....	129.3	100	98.3	91.2	83.0
12	L	Real estate services.....	118.3	100	103.7	103.5	91.4
13	M	Professional, scientific and technical services.....	92.4	100	108.5	106.1	97.3
14	N	Administrative and support services.....	125.2	100	114.2	109.9	103.9
15	O	Public administration and defence services.....	115.0	100	98.2	100.5	88.4
16	P	Education services.....	100.3	100	84.4	92.0	77.1
17	Q	Human health and social work services.....	97.7	100	90.8	91.7	78.9
18	R-T	Other services.....	116.5	100	74.3	78.4	68.8
19		All homogeneous branches.....	101.4	100	90.9	93.1	87.0

^{*)} Allocation of transformation losses and own consumption of power stations to final consumers.

Energy intensity of the energy sectors was calculated in a different way using physical output figures on energy generation and transformation output rather than figures on gross value added.

1) Statistical Classification of Products by Activity (CPA) of the European Union (2008 edition).

Table 3.3.3.1: Allocation of transformation losses to final use sectors
terajoules

No.	Specification	Electricity	Remote heating	Total	All energy sources
2000					
1	+ Transformation input of power stations.....	5,334,751	352,600	5,687,351	11,616,589
2	- Transformation output of power stations.....	2,070,523	313,484	2,384,007	8,306,631
3	= Transformation losses of power stations.....	3,264,228	39,116	3,303,344	3,309,958
4	+ Internal consumption of power stations.....	136,796	-	136,796	565,242
5	= Total.....	3,401,024	39,116	3,440,140	3,875,200
6	Manufacturing				
7	+ Final energy consumption (EB) 1.....	748,452	42,650	791,102	2,421,386
8	+ Share power station losses / internal consumption.....	1,430,370	6,302	1,436,673	1,436,673
9	= Primary energy consumption.....	2,178,822	48,952	2,227,775	3,858,058
10	Small consumers (agriculture, trade and services)				
11	+ Final energy consumption (EB)	504,083	90,680	594,763	1,477,633
12	+ Share power station losses / internal consumption.....	963,356	13,399	976,754	976,754
13	= Primary energy consumption.....	1,467,439	104,079	1,571,517	2,454,387
14	Transport				
15	+ Final energy consumption (EB)	57,276	-	57,276	2,751,332
16	+ Share power station losses / internal consumption.....	109,460	-	109,460	109,460
17	= Primary energy consumption.....	166,736	-	166,736	2,860,792
18	Private households				
19	+ Final energy consumption (EB)	469,800	131,400	601,200	2,584,225
20	+ Share power station losses / internal consumption.....	897,837	19,415	917,253	917,253
21	= Primary energy consumption.....	1,367,637	150,815	1,518,453	3,501,478
22	Final energy total.....				
23	+ Final energy consumption (EB)	1,779,611	264,730	2,044,341	9,234,576
24	+ Share power station losses / internal consumption.....	3,401,024	39,116	3,440,140	3,440,140
25	= Primary energy consumption.....	5,180,635	303,846	5,484,481	12,674,716
2005					
26	+ Transformation input of power stations.....	5,536,801	539,933	6,076,734	12,357,410
27	- Transformation output of power stations.....	2,234,066	508,797	2,742,864	8,959,307
28	= Transformation losses of power stations.....	3,302,735	31,135	3,333,870	3,398,103
29	+ Internal consumption of power stations.....	140,454	-	140,454	611,123
30	= Total.....	3,443,189	31,135	3,474,324	4,009,226
31	Manufacturing				
32	+ Final energy consumption (EB) 1.....	822,510	113,556	936,066	2,513,586
33	+ Share power station losses / internal consumption.....	1,519,687	7,851	1,527,538	1,527,538
34	= Primary energy consumption.....	2,342,197	121,408	2,463,604	4,041,124
35	Small consumers (agriculture, trade and services)				
36	+ Final energy consumption (EB)	474,070	183,094	657,164	1,469,169
37	+ Share power station losses / internal consumption.....	875,901	12,659	888,560	888,560
38	= Primary energy consumption.....	1,349,971	195,753	1,545,724	2,357,729
39	Transport				
40	+ Final energy consumption (EB)	58,320	-	58,320	2,586,164
41	+ Share power station losses / internal consumption.....	107,753	-	107,753	107,753
42	= Primary energy consumption.....	166,073	-	166,073	2,693,917
43	Private households				
44	+ Final energy consumption (EB)	508,680	153,667	662,347	2,590,757
45	+ Share power station losses / internal consumption.....	939,848	10,625	950,473	950,473
46	= Primary energy consumption.....	1,448,528	164,292	1,612,820	3,541,230
47	Final energy total.....				
48	+ Final energy consumption (EB)	1,863,580	450,317	2,313,897	9,159,677
49	+ Share power station losses / internal consumption.....	3,443,189	31,135	3,474,324	3,474,324
50	= Primary energy consumption.....	5,306,768	481,453	5,788,221	12,634,001

1) EB = Original data from energy balance.

Table 3.3.3.1: Allocation of transformation losses to final use sectors
terajoules

No.	Specification	Electricity	Remote heating	Total	All energy sources
2011					
51	+ Transformation input of power stations.....	5,185,800	538,983	5,724,783	11,066,184
52	- Transformation output of power stations.....	2,191,921	485,689	2,677,610	8,001,851
53	= Transformation losses of power stations.....	2,993,879	53,294	3,047,173	3,064,333
54	+ Internal consumption of power stations.....	125,377	-	125,377	556,967
55	= Total.....	3,119,256	53,294	3,172,550	3,621,300
56	Manufacturing				
57	+ Final energy consumption (EB) 1.....	817,646	169,495	987,141	2,633,975
58	+ Share power station losses / internal consumption.....	1,359,283	21,498	2,367,922	1,393,436
59	= Primary energy consumption.....	2,176,929	190,993	2,367,922	4,027,410
60	Small consumers (agriculture, trade and services)				
61	+ Final energy consumption (EB)	507,152	86,347	593,499	1,346,115
62	+ Share power station losses / internal consumption.....	843,107	10,952	854,059	1,091,084
63	= Primary energy consumption.....	1,350,259	97,299	1,447,558	2,437,199
64	Transport				
65	+ Final energy consumption (EB)	59,760	-	59,760	2,567,836
66	+ Share power station losses / internal consumption.....	99,347	-	99,347	98,548
67	= Primary energy consumption.....	159,107	-	159,107	2,666,384
68	Private households				
69	+ Final energy consumption (EB)	491,760	164,347	656,107	2,333,445
70	+ Share power station losses / internal consumption.....	817,519	20,845	838,364	1,266,858
71	= Primary energy consumption.....	1,309,279	185,192	1,494,471	3,600,303
72	Final energy total.....				
73	+ Final energy consumption (EB)	1,876,318	420,189	2,296,507	8,881,371
74	+ Share power station losses / internal consumption.....	3,119,257	53,295	4,159,692	3,849,925
75	= Primary energy consumption.....	4,995,575	473,484	5,469,058	12,731,296
2012					
76	+ Transformation input of power stations.....	5,061,232	556,318	5,617,550	10,858,126
77	- Transformation output of power stations.....	2,267,327	502,336	2,769,663	8,000,181
78	= Transformation losses of power stations.....	2,793,905	53,982	2,847,887	2,857,945
79	+ Internal consumption of power stations.....	133,420	-	133,420	522,703
80	= Total.....	2,927,325	53,982	2,981,307	3,380,648
81	Manufacturing				
82	+ Final energy consumption (EB) 1.....	814,391	212,029	1,026,420	2,587,104
83	+ Share power station losses / internal consumption.....	1,265,517	26,585	2,318,522	1,292,102
84	= Primary energy consumption.....	2,079,908	238,614	2,318,522	3,879,205
85	Small consumers (agriculture, trade and services)				
86	+ Final energy consumption (EB)	532,712	47,755	580,467	1,345,366
87	+ Share power station losses / internal consumption.....	827,804	5,988	833,792	833,792
88	= Primary energy consumption.....	1,360,516	53,743	1,414,259	2,179,158
89	Transport				
90	+ Final energy consumption (EB)	43,502	-	43,502	2,558,619
91	+ Share power station losses / internal consumption.....	67,600	-	67,600	67,600
92	= Primary energy consumption.....	111,102	-	111,102	2,626,219
93	Private households				
94	+ Final energy consumption (EB)	493,200	170,756	663,956	2,427,459
95	+ Share power station losses / internal consumption.....	766,405	21,410	787,814	787,814
96	= Primary energy consumption.....	1,259,605	192,166	1,451,770	3,215,274
97	Final energy total.....				
98	+ Final energy consumption (EB)	1,883,805	430,540	2,314,345	8,918,548
99	+ Share power station losses / internal consumption.....	2,927,325	53,982	4,007,727	2,981,307
100	= Primary energy consumption.....	4,811,130	484,522	5,295,652	11,899,856

1) EB = Original data from energy balance.

Table 3.3.3.2: Allocation of transformation losses and internal consumption of power stations to users
terajoules

No.	CPA ¹⁾	Homogeneous branches	1995	2000	2005	2010	2011	2012
1	A	Products of agriculture, forestry and fishing.....	49,639	36,263	37,720	44,798	37,928	39,610
2	01	Products of agriculture, hunting and related services.....	45,389	34,368	35,796	42,577	36,003	37,739
3	02	Products of forestry, logging and related services.....	2,724	1,070	962	1,110	963	936
4	03	Fish and other fishing products; aquaculture products.....	1,526	825	962	1,110	963	936
5	B	Mining and quarrying.....	20,190	13,361	13,089	13,816	11,507	10,146
6	05	Coal and lignite.....	-	-	-	-	-	-
7	06	Crude petroleum and natural gas.....	-	-	-	-	-	-
8	07-09	Metal ores, other mining and quarrying products.....	20,190	13,361	13,089	13,816	11,507	10,146
9	C	Manufactured products.....	1,453,903	1,494,900	1,576,675	1,479,864	1,421,353	1,332,776
10	10-12	Food products, beverages, tobacco products.....	109,246	116,041	122,118	120,146	113,440	108,728
11	13-15	Textiles, wearing apparel, leather and related products.....	43,988	39,279	41,483	37,789	39,839	41,328
12	16	Wood and products of wood and cork, except furniture.....	27,344	22,719	21,726	13,984	16,651	14,907
13	17	Paper and paper products.....	119,958	129,207	146,006	136,790	127,579	118,012
14	18	Printing and recording services.....	27,330	23,802	16,892	22,052	22,881	19,133
15	19	Coke and refined petroleum products.....	-	-	-	-	-	-
16	19.1	Coke oven products.....	-	-	-	-	-	-
17	19.2	Refined petroleum products.....	-	-	-	-	-	-
18	20	Chemicals and chemical products.....	258,403	257,015	285,952	274,430	260,732	246,117
19	21	Basic pharmaceutical products and pharmaceutical preparations.....	73,829	80,286	64,073	60,658	58,401	58,318
20	22	Rubber and plastic products.....	80,884	88,850	94,699	100,161	94,060	88,042
21	23	Other non-metallic mineral products.....	98,377	93,079	84,422	79,386	78,301	69,721
22	23.1	Glass and glass products.....	36,859	37,246	32,714	32,307	30,796	27,336
23	23.2-9	Refractory products, cut, shaped and finished stone.....	61,518	55,833	51,708	47,079	47,504	42,385
24	24	Basic metals.....	287,191	298,842	318,177	279,606	268,870	247,848
25	24.1-3	Basic iron and steel and ferro-alloys, other products of steel.....	155,423	158,851	166,175	167,689	163,651	153,178
26	24.4	Basic precious and other non-ferrous metals.....	109,335	117,398	134,962	100,646	97,363	88,454
27	24.5	Casting services of metal.....	22,433	22,593	17,041	11,271	7,855	6,216
28	25	Fabricated metal products, except machinery and equipment.....	62,859	63,911	65,069	68,863	68,354	62,567
29	26	Computer, electronic and optical products.....	25,165	27,002	26,370	24,526	21,857	21,266
30	27	Electrical equipment.....	44,447	45,935	49,767	45,360	43,895	43,069
31	28	Machinery and equipment n.e.c.....	66,944	67,396	69,463	73,881	71,261	67,570
32	29	Motor vehicles, trailers and semi-trailers.....	95,600	104,546	119,353	100,619	96,105	88,940
33	30	Other transport equipment.....	12,053	13,631	12,223	15,439	14,678	14,348
34	31-32	Furniture, other manufacture goods.....	18,539	24,021	24,115	18,940	17,116	16,088
35	33	Repair and installation services of machinery and equipment.....	1,747	-662	14,767	7,234	7,332	6,774
36	D (35)	Electricity, gas, steam and air conditioning.....	-3,308,953	-3,431,193	-3,461,505	-3,406,984	-3,158,825	-2,967,964
37	35.1/.3	Electricity, transmission and distribution services, steam.....	-3,320,382	-3,440,140	-3,474,324	-3,421,584	-3,172,550	-2,981,307
38	35.2	Manufactured gas.....	11,429	8,947	12,819	14,599	13,725	13,343
39	E	Water supply; sewerage, waste management and remediation services.....	45,444	39,558	39,178	46,636	42,090	40,928
40	36	Natural water; water treatment and supply services.....	39,149	31,281	32,047	36,396	32,977	32,057
41	37-39	Sewerage services; waste collection and materials recovery services.....	6,296	8,277	7,131	10,240	9,114	8,871
42	37	Sewerage services, sewerage sludge.....	4,121	5,762	5,124	5,922	5,312	5,164
43	38-39	Waste collection, treatment and disposal services.....	2,175	2,515	2,007	4,318	3,802	3,707
44	F	Constructions and construction works.....	26,341	20,105	23,316	24,791	22,737	21,581
45	41-42	Building and building construction works.....	14,230	9,511	10,512	9,204	8,247	7,876
46	43	Specialised construction works.....	12,110	10,594	12,803	15,587	14,490	13,705
47	G	Wholesale and retail trade services; repair services of motor vehicles.....	226,310	242,083	216,177	206,318	186,744	181,528
48	45	Wholesale and retail trade and repair services of motor vehicles.....	23,133	28,638	20,523	23,722	21,037	21,069
49	46	Wholesale trade services, except of motor vehicles and motorcycles.....	49,914	59,152	58,693	50,992	45,932	44,840
50	47	Retail trade services, except of motor vehicles and motorcycles.....	153,263	154,294	136,961	131,604	119,775	115,619
51	H	Transportation and storage services.....	147,856	142,200	138,087	145,791	132,494	100,506
52	49.1-2	Passenger rail transport services, freight rail transport services.....	91,447	83,430	83,730	83,900	77,547	54,080
53	49.3-5	Other passenger land transport services, transport service via pipeline .	36,988	30,091	29,009	28,951	26,862	18,438
54	50	Water transport services.....	-	-	-	-	-	-
55	51	Air transport services.....	-	-	-	-	-	-
56	52	Warehousing and support services for transportation.....	14,519	24,163	21,913	30,670	26,347	26,292
57	53	Postal and courier services.....	4,902	4,516	3,436	2,270	1,738	1,696
58	I	Accommodation and food services.....	67,649	88,309	81,841	88,648	81,512	77,919
59	J	Information and communication services.....	33,899	49,624	40,318	54,020	46,804	46,449
60	K	Financial and insurance services.....	27,875	30,539	24,080	20,407	17,570	17,820
61	L	Real estate services.....	36,112	51,007	36,475	42,249	37,334	37,194
62	M	Professional, scientific and technical services.....	32,084	38,031	39,773	44,248	39,679	38,557
63	N	Administrative and support services.....	4,384	8,458	7,247	12,271	11,372	10,933
64	O	Public administration and defence services.....	81,323	69,973	57,347	64,350	56,149	55,949
65	P	Education services.....	32,137	40,517	33,150	39,198	36,479	33,957
66	Q	Human health and social work services.....	57,790	79,791	79,504	94,118	84,109	81,263
67	R-T	Other services.....	49,445	69,221	67,056	60,823	54,601	53,035
68		All homogeneous branches.....	916,571	917,253	950,473	924,639	838,364	787,814
69		Private households (residents consumption).....	-1	1	0	1	0	0

1) Statistical Classification of Products by Activity (CPA) of the European Union (2008 edition).

Table 3.3.4: Consumption of primary energy^{*)}

(transformation losses and internal consumption of energy of electrical power stations allocated within the energy sector)

terajoules

No.	CPA ¹⁾	Homogeneous branches	1995	2000	2005	2010	2011	2012
1	A	Products of agriculture, forestry and fishing.....	229,897	148,019	142,643	181,288	177,654	188,136
2	01	Products of agriculture, hunting and related services.....	224,870	143,451	138,587	176,513	173,148	183,628
3	02	Products of forestry, logging and related services.....	3,243	2,704	2,571	3,078	2,904	2,896
4	03	Fish and other fishing products; aquaculture products.....	1,784	1,864	1,485	1,697	1,602	1,612
5	B	Mining and quarrying.....	151,181	90,368	90,084	77,453	96,172	67,753
6	05	Coal and lignite.....	87,867	43,987	51,732	46,058	67,138	40,613
7	06	Crude petroleum and natural gas.....	21,593	23,671	17,082	11,201	11,406	11,049
8	07-09	Metal ores, other mining and quarrying products.....	41,721	22,710	21,269	20,194	17,629	16,091
9	C	Manufactured products.....	3,745,693	3,813,176	4,017,067	3,905,202	3,951,645	3,867,378
10	10-12	Food products, beverages, tobacco products.....	226,645	220,741	224,602	227,269	222,611	225,161
11	13-15	Textiles, wearing apparel, leather and related products.....	64,290	54,466	40,867	28,361	26,899	24,207
12	16	Wood and products of wood and cork, except furniture.....	39,670	45,025	65,671	88,084	91,670	68,321
13	17	Paper and paper products.....	176,074	180,806	303,696	248,988	239,396	229,984
14	18	Printing and recording services.....	20,735	28,584	33,067	24,040	22,799	27,010
15	19	Coke and refined petroleum products.....	361,567	357,921	434,567	348,581	344,526	327,800
16	19.1	Coke oven products.....	77,505	56,287	50,253	69,766	42,926	33,158
17	19.2	Refined petroleum products.....	284,062	301,634	384,313	278,815	301,601	294,642
18	20	Chemicals and chemical products.....	1,249,007	1,318,330	1,405,265	1,447,567	1,461,154	1,432,427
19	21	Basic pharmaceutical products and pharmaceutical preparations.....	38,411	56,717	33,307	18,773	18,747	12,925
20	22	Rubber and plastic products.....	77,022	80,801	87,533	95,955	90,023	90,243
21	23	Other non-metallic mineral products.....	336,402	311,612	254,616	279,696	292,264	280,050
22	23.1	Glass and glass products.....	104,738	100,152	88,040	87,747	89,956	83,141
23	23.2-9	Refractory products, cut, shaped and finished stone.....	231,664	211,460	166,577	191,949	202,308	196,909
24	24	Basic metals.....	714,566	748,404	683,746	652,765	691,076	691,030
25	24.1-3	Basic iron and steel and ferro-alloys, other products of steel.....	593,826	612,420	544,657	528,072	567,454	571,999
26	24.4	Basic precious and other non-ferrous metals.....	89,750	98,200	92,537	77,550	73,601	70,504
27	24.5	Casting services of metal.....	30,989	37,784	46,552	47,143	50,022	48,528
28	25	Fabricated metal products, except machinery and equipment.....	93,557	94,195	105,889	108,752	110,554	109,157
29	26	Computer, electronic and optical products.....	40,249	36,430	32,681	29,550	32,565	33,509
30	27	Electrical equipment.....	46,421	36,128	34,156	34,053	38,421	37,212
31	28	Machinery and equipment n.e.c.....	101,816	86,554	91,859	94,389	91,470	93,982
32	29	Motor vehicles, trailers and semi-trailers.....	113,347	115,753	134,757	121,482	121,016	125,626
33	30	Other transport equipment.....	20,125	16,848	21,538	15,536	13,831	14,176
34	31-32	Furniture, other manufacture goods.....	21,384	16,775	17,565	26,272	28,375	29,375
35	33	Repair and installation services of machinery and equipment.....	4,405	7,083	11,686	15,089	14,247	15,182
36	D (35)	Electricity, gas, steam and air conditioning.....	3,331,582	3,456,267	3,532,466	3,479,538	3,223,964	3,038,579
37	35.1/-3 ²⁾	Electricity, transmission and distribution services, steam.....	3,325,012	3,444,083	3,492,380	3,444,775	3,195,352	3,011,181
38	35.2	Manufactured gas.....	6,571	12,184	40,086	34,763	28,613	27,398
39	E	Water supply; sewerage, waste management and remediation services.....	121,061	132,871	92,203	103,382	96,293	93,093
40	36	Natural water; water treatment and supply services.....	19,109	26,036	17,933	21,586	20,822	21,571
41	37-39	Sewerage services; waste collection and materials recovery services.....	101,951	106,835	74,270	81,796	75,472	71,522
42	37	Sewerage services, sewerage sludge.....	10,892	11,905	8,847	9,590	9,245	9,098
43	38-39	Waste collection, treatment and disposal services.....	91,059	94,931	65,424	72,206	66,226	62,424
44	F	Constructions and construction works.....	316,030	275,308	216,314	261,303	273,248	249,442
45	41-42	Building and building construction works.....	234,005	201,731	152,946	188,028	198,732	174,128
46	43	Specialised construction works.....	82,024	73,577	63,368	73,276	74,516	75,313
47	G	Wholesale and retail trade services; repair services of motor vehicles.....	503,910	492,072	454,450	396,586	379,661	379,662
48	45	Wholesale and retail trade and repair services of motor vehicles.....	81,780	81,565	69,136	43,580	41,645	42,395
49	46	Wholesale trade services, except of motor vehicles and motorcycles.....	148,747	147,006	138,324	113,912	111,784	111,819
50	47	Retail trade services, except of motor vehicles and motorcycles.....	273,383	263,500	246,990	239,095	226,232	225,448
51	H	Transportation and storage services.....	760,821	869,573	923,013	965,112	905,852	889,924
52	49.1-2	Passenger rail transport services, freight rail transport services.....	83,601	78,761	71,163	69,342	68,867	55,540
53	49.3-5	Other passenger land transport services, transport service via pipeline..	127,843	160,110	171,721	168,921	168,440	161,154
54	50	Water transport services.....	82,423	56,235	39,004	75,512	68,215	50,445
55	51	Air transport services.....	297,617	379,082	436,716	430,160	381,639	407,947
56	52	Warehousing and support services for transportation.....	125,258	144,801	154,400	174,749	171,954	168,406
57	53	Postal and courier services.....	44,078	50,583	50,010	46,428	46,737	46,432
58	I	Accommodation and food services.....	104,368	104,323	115,103	114,352	108,495	105,515
59	J	Information and communication services.....	76,607	84,124	99,952	87,993	81,597	80,869
60	K	Financial and insurance services.....	53,837	49,746	48,593	44,937	38,355	37,806
61	L	Real estate services.....	29,069	28,327	36,710	42,628	40,384	41,878
62	M	Professional, scientific and technical services.....	117,964	133,945	143,313	155,125	146,020	142,682
63	N	Administrative and support services.....	18,980	78,383	71,502	81,994	81,001	76,839
64	O	Public administration and defence services.....	185,881	163,615	144,596	152,596	135,782	134,075
65	P	Education services.....	128,860	116,922	133,538	123,009	104,039	96,019
66	Q	Human health and social work services.....	154,053	152,083	186,170	188,490	165,790	163,350
67	R-T	Other services.....	194,173	191,916	171,870	142,915	127,133	126,504
68		All homogeneous branches.....	10,223,969	10,381,037	10,619,585	10,503,907	10,133,085	9,779,506
69		Private households (residents consumption).....	3,974,047	3,903,781	3,950,906	3,995,565	3,679,404	3,758,090
70		All homogeneous branches and private households (residents concept).....	14,198,016	14,284,818	14,570,491	14,499,472	13,812,489	13,537,595
71		Balance of bunkering 2).....	-109,982	-107,255	-287,234	-319,339	-282,539	-262,223
72		Statistical discrepancies 3).....	16,481	52,406	99,327	-115,309	-78,646	22,520
73		Losses due to flaring and distributions 4).....	164,457	170,832	175,774	151,931	148,031	149,165
74		All homogeneous branches and private households (domestic concept) 5).....	14,268,972	14,400,802	14,558,358	14,216,755	13,599,335	13,447,057

*) Witout allocation of transformation losses to final users.

1) Statistical Classification of Products by Activity (CPA) of the European Union (2008 edition).

2) Ship bunkering, bunkering of airlines and motor trucks of residents abroad minus bunkering of non-residents on the territory. - 3) Difference between total supply and total use of energy.

4) Losses due flaring and distributions are not attributed to consumers. - 5) Corresponds to primary energy consumption from energy balance.

Table 3.3.5: Intensity of primary energy consumption - transformation losses not allocated ^{*)}

Energy consumption per gross value added (price-adjusted) (2005 = 100)

No.	CPA ¹⁾	Homogeneous branches	2000	2005	2009	2010	2011
1	A	Products of agriculture, forestry and fishing.....	77.8	100	116.2	121.5	103.9
2	B	Mining and quarrying.....	75.7	100	72.7	69.5	84.5
3	C	Manufactured products.....	97.5	100	98.4	91.9	86.6
4	D (35)	Electricity, gas, steam and air conditioning.....	112.4	100	87.6	98.5	97.5
5	E	Water supply; sewerage, waste management and remediation services.....	152.0	100	117.5	106.9	92.7
6	F	Constructions and construction works.....	100.6	100	102.3	99.5	98.3
7	G	Wholesale and retail trade services; repair services of motor vehicles.....	112.5	100	84.3	93.5	85.3
8	H	Transportation and storage services.....	101.0	100	103.0	97.5	90.0
9	I	Accommodation and food services.....	90.6	100	81.0	94.6	84.7
10	J	Information and communication services.....	84.0	100	75.6	80.9	69.3
11	K	Financial and insurance services.....	119.8	100	96.9	93.8	85.1
12	L	Real estate services.....	84.2	100	102.2	103.6	94.7
13	M	Professional, scientific and technical services.....	91.9	100	107.2	105.5	97.7
14	N	Administrative and support services.....	124.5	100	109.7	105.3	100.3
15	O	Public administration and defence services.....	112.5	100	95.5	98.7	87.3
16	P	Education services.....	93.0	100	80.5	87.1	71.3
17	Q	Human health and social work services.....	91.4	100	84.1	87.3	74.7
18	R-T	Other services.....	119.0	100	73.6	76.4	66.9
19		All homogeneous branches.....	101.2	100	91.3	93.0	86.4

^{*)} Energy intensity of the energy sectors was calculated in a different way using physical output figures on energy generation and transformation output rather than figures on gross value added.

¹⁾ Statistical Classification of Products by Activity (CPA) of the European Union (2008 edition).

Table 3.3.6.1: Energy consumption of private households by energy sources and by application areas ^{*)}
(temperature adjusted)

No.	Usages	Unit	2000	2005	2010	2011	2012
mineral oil							
1	Room heating.....	petajoules	770	570	452	417	421
2	Hot water 1).....	petajoules	68	56	55	55	55
3	Other process heat 2).....	petajoules	–	–	–	–	–
4	Mechanical energy 3).....	petajoules	2	3	3	4	4
5	Lighting.....	petajoules	–	–	–	–	–
6	Total.....	petajoules	841	629	510	476	480
gas							
7	Room heating.....	petajoules	933	840	760	768	770
8	Hot water 1).....	petajoules	127	145	160	157	163
9	Other process heat 2).....	petajoules	10	7	3	3	4
12	Total.....	petajoules	1,069	992	923	929	936
electricity							
13	Room heating.....	petajoules	79	69	42	44	39
14	Hot water 1).....	petajoules	61	62	63	62	61
15	Other process heat 2).....	petajoules	113	132	140	137	141
16	Mechanical energy 3).....	petajoules	183	199	212	207	206
17	Lighting.....	petajoules	42	45	46	45	46
18	Total.....	petajoules	477	507	504	495	493
remote heating							
19	Room heating.....	petajoules	131	138	151	163	156
20	Hot water 1).....	petajoules	12	12	15	14	14
24	Total.....	petajoules	143	151	166	177	170
coal							
25	Room heating.....	petajoules	49	29	43	59	29
26	Hot water 1).....	petajoules	4	2	3	3	2
30	Total.....	petajoules	53	32	47	63	31
other							
31	Room heating.....	petajoules	168	178	258	283	266
32	Hot water 1).....	petajoules	6	8	10	10	8
33	Other process heat 2).....	petajoules	6	5	7	6	6
34	Mechanical energy 3).....	petajoules	–	–	–	–	–
35	Lighting.....	petajoules	–	–	–	–	–
36	Total.....	petajoules	180	192	276	299	281
total							
37	Room heating.....	petajoules	2,129	1,824	1,707	1,733	1,681
38	Hot water 1).....	petajoules	278	286	306	302	302
39	Other process heat 2).....	petajoules	129	145	150	147	151
40	Mechanical energy 3).....	petajoules	186	202	215	211	210
41	Lighting.....	petajoules	42	45	46	45	46
42	Total.....	petajoules	2,763	2,501	2,425	2,438	2,391
percentage of total							
43	Room heating.....	%	77.0	72.9	70.4	71.1	70.3
44	Hot water 1).....	%	10.1	11.4	12.6	12.4	12.7
45	Other process heat 2).....	%	4.7	5.8	6.2	6.0	6.3
46	Mechanical energy 3).....	%	6.7	8.1	8.9	8.7	8.8
47	Lighting.....	%	1.5	1.8	1.9	1.9	1.9
48	Total.....	%	100	100	100	100	100

^{*)} Own calculations based on data provided by the German Association of Energy and Water Industries (BDEW) and the Rhineland-Westphalia Institute for Economic Research (RWI 2011), including adjustment of data for storage of light fuel oil, excluding fuels.

1) For example shower.

2) Particular for cooking, including hot water for dishwashers and washing machines.

3) Electrical appliances, including refrigerators and freezers, communication and entertainment equipment.

Table 3.3.6.2: Energy consumption of private households for housing (temperature adjusted) *)

No.	Energy sources and usages	Unit	2000	2005	2010	2011	2012
By energy sources							
1	Mineral oil.....	petajoules	841	629	510	476	480
2	Gas.....	petajoules	1,069	992	923	929	936
3	Electricity.....	petajoules	477	507	504	495	493
4	Remote heating.....	petajoules	143	151	166	177	170
5	Coal.....	petajoules	53	32	47	63	31
6	Other	petajoules	180	192	276	299	281
7	Total.....	petajoules	2,763	2,501	2,425	2,438	2,391
By use areas							
8	Room heating.....	petajoules	2,129	1,824	1,707	1,733	1,681
9	Hot water 1).....	petajoules	278	286	306	302	302
10	Other process heat 2).....	petajoules	129	145	150	147	151
11	Mechanical energy 3).....	petajoules	186	202	215	211	210
12	Lighting.....	petajoules	42	45	46	45	46
13	Total.....	petajoules	2,763	2,501	2,425	2,438	2,391
14	memorandum item: not-temperature adjusted 4).....	petajoules	2,520	2,534	2,636	2,303	2,397
base year 2005 = 100							
By energy sources							
15	Mineral oil.....	petajoules	133.7	100	81.2	75.7	76.3
16	Gas.....	petajoules	107.8	100	93.0	93.6	94.4
17	Electricity.....	petajoules	94.1	100	99.3	97.6	97.2
18	Remote heating.....	petajoules	95.3	100	110.0	117.6	113.0
19	Coal.....	petajoules	166.4	100	147.9	197.5	97.5
20	Other	petajoules	94.2	100	144.0	156.1	146.5
21	Total.....	petajoules	110.5	100	96.9	97.5	95.6
By use areas							
22	Room heating.....	petajoules	116.7	100	93.6	95.0	92.1
23	Hot water 1).....	petajoules	97.3	100	107.1	105.7	105.9
24	Other process heat 2).....	petajoules	89.1	100	103.9	101.4	104.0
25	Mechanical energy 3).....	petajoules	91.9	100	106.5	104.5	104.1
26	Lighting.....	petajoules	93.4	100	103.7	101.1	103.6
27	Total.....	petajoules	110.5	100	96.9	97.5	95.6
28	memorandum item: not-temperature adjusted 4).....	petajoules	99.4	100	104.0	90.9	94.6
percentage of total							
By energy sources							
29	Mineral oil.....	%	30.4	25.1	21.0	19.5	20.1
30	Gas.....	%	38.7	39.7	38.1	38.1	39.2
31	Electricity.....	%	17.3	20.3	20.8	20.3	20.6
32	Remote heating.....	%	5.2	6.0	6.8	7.3	7.1
33	Coal.....	%	1.9	1.3	1.9	2.6	1.3
34	Other	%	6.5	7.7	11.4	12.3	11.7
35	Total.....	%	100	100	100	100	100
By use areas							
36	Room heating.....	%	77.0	72.9	70.4	71.1	70.3
37	Hot water 1).....	%	10.1	11.4	12.6	12.4	12.7
38	Other process heat 2).....	%	4.7	5.8	6.2	6.0	6.3
39	Mechanical energy 3).....	%	6.7	8.1	8.9	8.7	8.8
40	Lighting.....	%	1.5	1.8	1.9	1.9	1.9
41	Total.....	%	100.0	100	100	100	100

*) Own calculations based on data provided by the German Association of Energy and Water Industries (BDEW) and the Rhineland-Westphalia Institute for Economic Research (RWI 2011), including adjustment of data for storage of light fuel oil, excluding fuels.

1) For example shower.

2) Particular for cooking, including hot water for dishwashers and washing machines.

3) Electrical appliances, including refrigerators and freezers, communication and entertainment equipment.

4) Including energy consumption for commercial surfaces of households of selfemployed persons.

Table 3.3.6.3: Energy consumption of private households for housing (temperature adjusted) *)

No.	Energy sources and usages	Unit	2000	2005	2010	2011	2012
By energy sources							
1	Mineral oil.....	TWh	233	175	142	132	133
2	Gas.....	TWh	297	276	256	258	260
3	Electricity.....	TWh	132	141	140	138	137
4	Remote heating.....	TWh	40	42	46	49	47
5	Coal.....	TWh	15	9	13	17	9
6	Other	TWh	50	53	77	83	78
7	Total.....	TWh	768	695	674	677	664
By use areas							
8	Room heating.....	TWh	591	507	474	481	467
9	Hot water 1).....	TWh	77	79	85	84	84
10	Other process heat 2).....	TWh	36	40	42	41	42
11	Mechanical energy 3).....	TWh	52	56	60	59	58
12	Lighting.....	TWh	12	12	13	13	13
13	Total.....	TWh	768	695	674	677	664
14	memorandum item: not-temperature adjusted 4)....	TWh	700	704	732	640	666
base year = 100							
By energy sources							
15	Mineral oil.....	2005=100	133.7	100	81.2	75.7	76.3
16	Gas.....	2005=100	107.8	100	93.0	93.6	94.4
17	Electricity.....	2005=100	94.1	100	99.3	97.6	97.2
18	Remote heating.....	2005=100	95.3	100	110.0	117.6	113.0
19	Coal.....	2005=100	166.4	100	147.9	197.5	97.5
20	Other	2005=100	94.2	100	144.0	156.1	146.5
21	Total.....	2005=100	110.5	100	96.9	97.5	95.6
By use areas							
22	Room heating.....	2005=100	116.7	100	93.6	95.0	92.1
23	Hot water 1).....	2005=100	97.3	100	107.1	105.7	105.9
24	Other process heat 2).....	2005=100	89.1	100	103.9	101.4	104.0
25	Mechanical energy 3).....	2005=100	91.9	100	106.5	104.5	104.1
26	Lighting.....	2005=100	93.4	100	103.7	101.1	103.6
27	Total.....	2005=100	110.5	100	96.9	97.5	95.6
28	memorandum item: not-temperature adjusted 4)....	2005=100	99.4	100	104.0	90.9	94.6
percentage of total							
By energy sources							
29	Mineral oil.....	%	30.4	25.1	21.0	19.5	20.1
30	Gas.....	%	38.7	39.7	38.1	38.1	39.2
31	Electricity.....	%	17.3	20.3	20.8	20.3	20.6
32	Remote heating.....	%	5.2	6.0	6.8	7.3	7.1
33	Coal.....	%	1.9	1.3	1.9	2.6	1.3
34	Other	%	6.5	7.7	11.4	12.3	11.7
35	Total.....	%	100	100	100	100	100
By use areas							
36	Room heating.....	%	77.0	72.9	70.4	71.1	70.3
37	Hot water 1).....	%	10.1	11.4	12.6	12.4	12.7
38	Other process heat 2).....	%	4.7	5.8	6.2	6.0	6.3
39	Mechanical energy 3).....	%	6.7	8.1	8.9	8.7	8.8
40	Lighting.....	%	1.5	1.8	1.9	1.9	1.9
41	Total.....	%	100	100	100	100	100

*) Own calculations based on data provided by the German Association of Energy and Water Industries (BDEW) and the Rhineland-Westphalia Institute for Economic Research (RWI 2011), including adjustment of data for storage of light fuel oil, excluding fuels.

1) For example shower.

2) Particularly for cooking, including hot water for dishwashers and washing machines.

3) Electrical appliances, including refrigerators and freezers, communication and entertainment equipment.

4) Including energy consumption for commercial surfaces of households of selfemployed persons.

Table 3.3.6.4: Energy consumption of private households for housing (temperature adjusted) *)

No.	Energy sources and usages	Unit	2000	2005	2010	2011	2012
By energy sources							
1	Mineral oil.....	kWh	6,192	4,489	3,517	3,268	3,277
2	Gas.....	kWh	7,877	7,083	6,361	6,379	6,397
3	Electricity.....	kWh	3,513	3,621	3,470	3,401	3,368
4	Remote heating.....	kWh	1,056	1,075	1,141	1,216	1,162
5	Coal.....	kWh	389	227	323	430	211
6	Other	kWh	1,328	1,368	1,901	2,054	1,917
7	Total.....	kWh	20,356	17,863	16,715	16,748	16,333
By use areas							
8	Room heating.....	kWh	15,683	13,028	11,767	11,906	11,485
9	Hot water 1).....	kWh	2,047	2,040	2,108	2,073	2,067
10	Other process heat 2).....	kWh	950	1,033	1,036	1,008	1,028
11	Mechanical energy 3).....	kWh	1,367	1,442	1,482	1,450	1,436
12	Lighting.....	kWh	308	320	320	311	317
13	Total.....	kWh	20,356	17,863	16,715	16,748	16,333
14	memorandum item: not-temperature adjusted 4).....	kWh	18,560	18,095	18,167	15,823	16,380
15	number of households (n.a.) 5).....	1,000	37,711	38,897	40,301	40,439	40,657
percentage of total							
By energy sources							
16	Mineral oil.....	%	30.4	25.1	21.0	19.5	20.1
17	Gas.....	%	38.7	39.7	38.1	38.1	39.2
18	Electricity.....	%	17.3	20.3	20.8	20.3	20.6
19	Remote heating.....	%	5.2	6.0	6.8	7.3	7.1
20	Coal.....	%	1.9	1.3	1.9	2.6	1.3
21	Other	%	6.5	7.7	11.4	12.3	11.7
22	Total.....	%	100	100	100	100	100
By use areas							
23	Room heating.....	%	77.0	72.9	70.4	71.1	70.3
24	Hot water 1).....	%	10.1	11.4	12.6	12.4	12.7
25	Other process heat 2).....	%	4.7	5.8	6.2	6.0	6.3
26	Mechanical energy 3).....	%	6.7	8.1	8.9	8.7	8.8
27	Lighting.....	%	1.5	1.8	1.9	1.9	1.9
28	Total.....	%	100	100	100	100	100

*) Own calculations based on data provided by the German Association of Energy and Water Industries (BDEW) and the Rhineland-Westphalia Institute for Economic Research (RWI 2011), including adjustment of data for storage of light fuel oil, excluding fuels.

1) For example shower.

2) Particular for cooking, including hot water for dishwashers and washing machines.

3) Electrical appliances, including refrigerators and freezers, communication and entertainment equipment.

4) Including energy consumption for commercial surfaces of households of selfemployed persons.

5) Annual average.

Table 3.3.6.5: Total CO₂ emissions of private households - direct and indirect *)

No.	Usages	2000	2005	2010	2011	2012
1,000 tonnes						
direct						
1	Room heating (temperature adjusted).....	132,785	112,032	106,629	108,483	104,223
2	Hot water 1).....	13,233	13,386	14,376	14,197	14,211
3	Other process heat 2).....	1,261	997	887	817	841
4	Total heating.....	147,280	126,415	121,892	123,497	119,276
5	Mechanical energy 3).....	179	190	250	301	296
6	Lighting.....	0	0	0	0	0
7	Housing.....	147,460	126,604	122,142	123,798	119,572
8	Road traffic.....	100,167	100,531	96,162	97,281	96,093
9	Total.....	247,627	227,135	218,303	221,079	215,665
indirect - CO₂ emissions from energy provision						
10	Room heating (temperature adjusted).....	33,487	28,943	28,741	31,485	30,710
11	Hot water 1).....	11,796	11,592	11,625	11,807	11,733
12	Other process heat 2).....	17,913	20,220	20,654	20,909	20,818
13	Total heating.....	63,196	60,755	61,020	64,201	63,261
14	Mechanical energy 3).....	29,007	30,421	30,535	30,893	30,759
15	Lighting.....	6,618	6,827	6,743	6,822	6,792
16	Housing.....	98,820	98,003	98,298	101,915	100,811
17	Road traffic.....	4,822	5,097	5,118	5,182	5,116
18	Total.....	103,643	103,100	103,416	107,098	105,928
cumulated (= direct + indirect)						
19	Room heating (temperature adjusted).....	166,272	140,975	135,370	139,968	134,933
20	Hot water 1).....	25,030	24,977	26,001	26,005	25,944
21	Other process heat 2).....	19,174	21,217	21,540	21,726	21,660
22	Total heating.....	210,476	187,169	182,911	187,698	182,537
23	Mechanical energy 3).....	29,186	30,611	30,785	31,194	31,055
24	Lighting.....	6,618	6,827	6,743	6,822	6,792
25	Housing.....	246,280	224,607	220,440	225,714	220,383
26	Road traffic.....	104,990	105,627	101,280	102,463	101,209
27	Total.....	351,270	330,235	321,720	328,177	321,593
percentage of total						
direct						
28	Room heating (temperature adjusted).....	53.6	49.3	48.8	49.1	48.3
29	Hot water 1).....	5.3	5.9	6.6	6.4	6.6
30	Other process heat 2).....	0.5	0.4	0.4	0.4	0.4
31	Total heating.....	59.5	55.7	55.8	55.9	55.3
32	Mechanical energy 3).....	0.1	0.1	0.1	0.1	0.1
33	Lighting.....	0.0	0.0	0.0	0.0	0.0
34	Housing.....	59.5	55.7	56.0	56.0	55.4
35	Road traffic.....	40.5	44.3	44.0	44.0	44.6
36	Total.....	100	100	100	100	100
indirect - CO₂ emissions from energy provision						
37	Room heating (temperature adjusted).....	32.3	28.1	27.8	29.4	29.0
38	Hot water 1).....	11.4	11.2	11.2	11.0	11.1
39	Other process heat 2).....	17.3	19.6	20.0	19.5	19.7
40	Total heating.....	61.0	58.9	59.0	59.9	59.7
41	Mechanical energy 3).....	28.0	29.5	29.5	28.8	29.0
42	Lighting.....	6.4	6.6	6.5	6.4	6.4
43	Housing.....	95.3	95.1	95.1	95.2	95.2
44	Road traffic.....	4.7	4.9	4.9	4.8	4.8
45	Total.....	100	100	100	100	100
cumulated (= direct + indirect)						
46	Room heating (temperature adjusted).....	47.3	42.7	42.1	42.7	42.0
47	Hot water 1).....	7.1	7.6	8.1	7.9	8.1
48	Other process heat 2).....	5.5	6.4	6.7	6.6	6.7
49	Total heating.....	59.9	56.7	56.9	57.2	56.8
50	Mechanical energy 3).....	8.3	9.3	9.6	9.5	9.7
51	Lighting.....	1.9	2.1	2.1	2.1	2.1
52	Housing.....	70.1	68.0	68.5	68.8	68.5
53	Road traffic.....	29.9	32.0	31.5	31.2	31.5
54	Total.....	100	100	100	100	100

*) Including emissions from the combustion of biomass (wood) and biofuels.

1) For example shower.

2) Particular for cooking, including hot water for dishwashers and washing machines.

3) Electrical appliances, including refrigerators and freezers, communication and entertainment equipment.

Table 3.3.6.6 Energy consumption for heating by household size ^{*)}

No.	Characteristics	Unit	2000	2005	2010	2011	2012
1	Total energy for heating.....	PJ	2,129	1,824	1,707	1,733	1,681
2	Total energy.....	GWh	591,478	506,777	474,273	481,515	466,995
3	Energy per household.....	kWh	15,685	13,029	11,768	11,907	11,486
4	One-person household.....	kWh	11,622	9,429	8,934	8,917	8,603
5	Two-person household.....	kWh	16,129	13,663	12,498	12,796	12,365
6	Three - and more person households.....	kWh	19,975	17,081	15,244	15,479	14,951
7	Households.....	1,000	37,711	38,897	40,301	40,439	40,657
8	One-person household.....	%	35.8	37.9	40.2	40.4	40.5
9	Two-person household.....	%	33.7	33.7	34.2	34.3	34.5
10	Three - and more person households.....	%	30.4	28.4	25.6	25.3	25.0
11	Total.....	%	100	100	100	100	100
12	Living space.....	mn m ²	3,091	3,416	3,530	3,551	3,571
13	Energy per living space.....	kWh/m ²	191.3	148.4	134.3	135.6	130.8
base year = 100							
14	Total energy.....	2005 = 100	116.7	100	93.6	95.0	92.1
15	Energy per household.....	2005 = 100	120.4	100	90.3	91.4	88.2
16	One-person household.....	2005 = 100	123.3	100	94.7	94.6	91.2
17	Two-person household.....	2005 = 100	118.0	100	91.5	93.7	90.5
18	Three - and more person households.....	2005 = 100	116.9	100	89.2	90.6	87.5
19	Households.....	2005 = 100	96.9	100	103.6	104.0	104.5
20	One-person household.....	2005 = 100	94.5	100	106.0	106.5	106.8
21	Two-person household.....	2005 = 100	100.2	100	101.7	101.9	102.6
22	Three - and more person households.....	2005 = 100	107.1	100	90.1	89.0	87.8
23	Living space.....	2005 = 100	90.5	100	103.4	103.9	104.6

*) Temperature adjusted energy consumption for heating.

Table 3.3.6.7: Energy consumption for heating by type of buildings and by energy sources

No.	Type of buildings	2006						
		Total heating systems ²⁾	Main heating systems	of which				
				Fuel oil ³⁾	Gas ³⁾	Remote heating ⁴⁾	Solid Fuels ⁴⁾	Electricity ⁴⁾
		Percentage of dwellings on total dwellings ⁶⁾						
1	One-family house.....	100	91.7	37.6	47.4	2.6	3.7	0.5
2	Two-family house.....	100	93.7	43.2	43.9	2.3	3.8	0.5
3	Multi-dwelling house.....	100	96.0	21.9	50.7	22.6	0.3	0.6
4	All buildings.....	100	94.5	30.3	48.5	13.1	2.1	0.5
		Heatedliving space in 1,000 m ²						
5	One-family house.....		1,287,408	526,686	664,042	36,189	51,929	8,562
6	Two-family house.....		612,145	281,819	286,880	14,786	25,006	3,654
7	Multi-dwelling house.....		1,341,782	304,608	705,392	313,850	7,696	10,235
8	All buildings.....	3,446,062	3,241,335	1,113,114	1,656,314	364,825	84,632	22,452
		Energy consumption (terajoules) ⁷⁾						
9	One-family house.....	796,422	673,280	263,826	355,567	15,066	24,490	14,331
10	Two-family house.....	360,872	314,426	138,868	151,938	6,093	11,793	5,734
11	Multi-dwelling house.....	668,387	611,287	132,928	345,146	120,923	3,630	8,660
12	All buildings.....	1,825,680	1,598,993	535,623	852,651	142,081	39,912	28,726
		Energy consumption (kWh per m ²)						
13	One-family house.....		145	139	149	116	131	465
14	Two-family house.....		143	137	147	114	131	436
15	Multi-dwelling house.....		127	121	136	107	131	235
16	All buildings.....	147	137	134	143	108	131	355
		Energy consumption change from 2006 to 2012 (2006 = 100)						
17	One-family house.....		100	100	100	100	100	100
18	Two-family house.....		100	100	100	100	100	100
19	Multi-dwelling house.....		100	100	100	100	100	100
20	All buildings.....		100	100	100	100	100	100
		Percentage of energy consumption by type of houses on total buildings (%)						
21	One-family house.....		42.1	49.3	41.7	10.6	61.4	49.9
22	Two-family house.....		19.7	25.9	17.8	4.3	29.5	20.0
23	Multi-dwelling house.....		38.2	24.8	40.5	85.1	9.1	30.1
24	All buildings.....		100	100	100	100	100	100
		Percentage of energy consumption on total energy consumption (%)						
25	One-family house.....		100	39.2	52.8	2.2	3.6	2.1
26	Two-family house.....		100	44.2	48.3	1.9	3.8	1.8
27	Multi-dwelling house.....		100	21.7	56.5	19.8	0.6	1.4
28	All buildings.....		100	33.5	53.3	8.9	2.5	1.8

1) Preliminary results.

2) Incl. auxiliary heatings.

3) Only central heating systems.

4) Central heating systems and other heatings (double accounting possible).

5) Central heating systems and individual stoves.

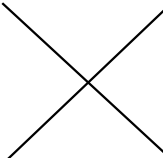
6) Source: Mikrozensus 2010. total in 2010 is higher than 100% due to double accounting. 2011: composition of 2010.

7) Own calculations on basis of data from CO₂-online (www.co2online.de).

Table 3.3.6.7: Energy consumption for heating by type of buildings and by energy sources

2012 ¹⁾							No.
Total heating systems ²⁾	Main heating systems	of which					
		Fuel oil ⁵⁾	Gas ⁵⁾	Remote heating ⁴⁾	Solid Fuels ⁴⁾	Electricity ⁴⁾	
Percentage of dwellings on total dwellings ⁶⁾							
117.7	90.7	33.4	48.7	2.5	5.5	0.6	1
109.6	92.6	40.8	42.0	1.9	7.2	0.6	2
94.0	92.0	18.8	48.7	22.6	1.1	0.7	3
104.8	92.2	27.3	47.5	13.2	3.6	0.7	4
Heated living space in 1,000 m ²							
	1,399,588	515,337	751,177	38,001	85,646	9,428	5
	666,918	294,446	303,177	13,096	52,160	4,038	6
	1,216,525	245,891	635,558	310,457	14,942	9,678	7
3,571,425	3,283,032	1,055,674	1,689,912	361,555	152,748	23,143	8
Energy consumption (terajoules) ⁷⁾							
801,828	636,506	210,037	355,025	24,490	42,549	10,739	9
356,051	296,614	118,692	141,692	11,793	25,913	4,152	10
523,168	506,668	92,006	273,218	3,630	7,423	2,326	11
1,681,047	1,439,788	420,735	769,935	39,912	75,885	17,217	12
Energy consumption (kWh per m ²)							
	126	113	131	133	138	316	13
	124	112	130	131	138	286	14
	116	104	119	118	138	67	15
131	122	111	127	120	138	207	16
Energy consumption change from 2006 to 2012 (2006 = 100)							
	87	81	88	115	105	68	17
	87	82	88	114	105	66	18
	91	86	88	110	105	28	19
	89	83	89	111	105	58	20
Percentage of energy consumption by type of houses on total buildings (%)							
	44.2	49.9	46.1	11.6	56.1	62.4	21
	20.6	28.2	18.4	4.0	34.1	24.1	22
	35.2	21.9	35.5	84.4	9.8	13.5	23
	100	100	100	100	100	100	24
Percentage of energy consumption on total energy consumption (%)							
	100	33.0	55.8	2.9	6.7	1.7	25
	100	40.0	47.8	2.1	8.7	1.4	26
	100	18.2	53.9	26.0	1.5	0.5	27
	100	29.2	53.5	10.8	5.3	1.2	28

Table 3.4.1: Total supply of energy and embodied energy of goods by final use categories

No.	Specification	2000	2010	Change in 2010 as against 2000
		Energy terajoules		in percent
1	Primary domestic energy.....	3,792,632	4,155,411	9.6
2	Domestic production.....	12,099,263	12,322,678	1.8
3	Transformation losses.....	-8,306,631	-8,167,266	-1.7
4	+ Imports (direct)	12,278,697	12,383,196	0.9
5	= Supply of primary energy.....	16,071,328	16,538,607	2.9
6	+ Imports indirect (Energiegehalt der Importgüter 1)).....	6,658,861	7,044,918	5.8
7	= Supply of energy.....	22,730,190	23,583,525	3.8
8	= Final uses 2)	22,730,190	23,583,525	3.8
9	- Exports.....	8,713,008	10,629,114	22.0
10	direct.....	1,791,923	2,140,686	19.5
11	Embodied energy of exports 1).....	6,921,085	8,488,428	22.6
12	= Final domestic uses.....	14,017,182	12,954,411	-7.6
13	- Domestic final consumption of private households 2).....	10,065,690	9,899,293	-1.7
14	direct.....	3,903,781	3,965,613	1.6
15	Embodied energy of consumer goods	6,161,909	5,933,679	-3.7
16	= Other final uses 3).....	3,951,492	3,055,118	-22.7
Macroeconomic reference data				
EUR bn at current prices⁴⁾				
17	Domestic production.....	3,786	4,819	27.3
18	+ Total imports 1).....	538	761	41.4
19	= Supply.....	4,324	5,580	29.0
20	- Intermediate consumption.....	1,883	2,515	33.6
21	= Final uses.....	2,441	3,064	25.5
22	- Total exports 1).....	577	935	62.2
23	= Final domestic uses.....	1,864	2,129	14.2
24	Domestic final consumption of private households	1,024	1,212	18.3
25	Consumption expenditure of non-profit institutions serving households.....	34	39	16.1
26	Government final consumption expenditure.....	388	481	24.0
27	Gross fixed capital formation.....	411	400	-2.8
28	Changes in stocks, acquisitions less disposals of valuables.....	7	-3	-
Energy intensity				
energy consumption per				
macroeconomic reference data at				
current prices				
MJ per EUR 1,000				
29	= Final uses.....	9,313	7,696	
30	- Exports.....	12,004	9,078	
31	= Final domestic uses.....	7,519	6,084	
32	Domestic final consumption of private households 3).....	9,826	8,168	
33	Imports 1)	12,379	9,263	

1) Excl. re-exports.

2) Incl. direct energy consumption.

3) Incl. changes in stock, losses from flaring and statistical discrepancies.

4) At producer's prices excl. taxes on goods.

Table 3.4.2: Embodied energy of goods for final use 2010

No.	Goods groups	Total final use	including:	
			Domestic final consumption of private households	Exports and ocean bunkering
			terajoules	
1	Products of agriculture, hunting and related services.....	257,537	160,067	53,571
2	Products of forestry, logging and related services.....	4,704	3,377	967
3	Fish and other fishing products; aquaculture products.....	3,477	2,836	651
4	Hard coal.....	-2,726	2,286	1,420
5	Lignite.....	1,734	962	1,114
6	Crude petroleum and natural gas.....	30,173	37,350	27
7	Metal ores; Other mining and quarrying products; Mining support services.....	11,910	504	6,683
8	Food products; Beverages; Tobacco products.....	1,061,097	815,005	282,451
9	Textiles; Wearing apparel; Leather and related products.....	305,513	239,623	83,481
10	Wood, products of wood and cork, except furniture.....	123,821	28,325	57,210
11	Paper and paper products.....	419,007	85,534	326,908
12	Printing and recording services.....	24,616	15,885	15,694
13	Coke oven products.....	19,317	411	1,779
14	Refined petroleum products.....	348,323	244,369	98,678
15	Basic chemicals.....	1,734,585	42,177	1,670,741
16	Other chemical products.....	800,288	176,857	589,260
17	Pharmaceutical products	229,335	48,578	150,917
18	Rubber and plastics products.....	461,517	65,987	369,462
19	Glass and glass products	97,321	21,159	73,529
20	Ceramic products; Cut, shaped and finished stone.....	118,769	24,629	75,007
21	Basic iron and steel; other products of the first processing of steel.....	765,621	-	744,693
22	Aluminium.....	206,311	-	178,976
23	Other non-ferrous metals.....	154,214	-	146,416
24	Casting services of metals.....	7,682	-	3,326
25	Fabricated metal products.....	329,965	30,469	220,403
26	Computer, electronic and optical products.....	389,786	59,189	214,169
27	Electrical equipment.....	268,070	34,215	184,567
28	Machinery and equipment n.e.c.....	869,707	9,366	612,252
29	Motor vehicles, trailers and semi-trailers.....	1,464,257	341,360	963,287
30	Other transport equipment.....	203,438	10,563	135,053
31	Furniture; Other manufactured goods.....	252,381	107,635	84,261
32	Repair and installation services of machinery and equipment.....	60,187	1,907	13,347
33	Electricity, transmission and distribution services.....	1,379,194	876,809	352,145
34	Manufactured gas; distribution services of gaseous fuels through mains.....	11,599	-	-
35	Steam supply services.....	37,756	30,739	44
36	Natural water; water treatment and supply services.....	22,769	57,478	-
37	Sewerage, Waste management and remediation services.....	106,901	92,098	23,752
38	Buildings and building construction works.....	380,475	-	-
39	Specialised construction works.....	410,587	20,338	2,952
40	Wholesale and retail trade and repair services of motor vehicles	140,797	111,481	6,406
41	Wholesale trade services, except of motor vehicles and motorcycles.....	266,072	64,268	157,750
42	Retail trade services, except of motor vehicles and motorcycles.....	497,666	449,074	0
43	Rail transport services.....	158,487	146,098	12,507
44	Other land transport services.....	78,627	68,343	9,465
45	Water transport services.....	159,972	3,754	154,866
46	Air transport services.....	477,591	292,467	184,773
47	Warehousing and support services for transportation.....	61,877	10,911	33,705
48	Postal and courier services.....	17,728	11,492	6,271
49	Accommodation and food serving services.....	330,819	301,930	28,611
50	Publishing services.....	46,885	39,034	7,877
51	Motion picture, video and television programme services.....	46,037	27,712	6,783
52	Telecommunications services.....	88,189	79,530	8,989
53	Information services.....	48,573	364	19,489
54	Financial and insurance services.....	116,031	91,687	23,907
55	Real estate services.....	174,287	170,137	1,328
56	Legal and accounting services, business services, architectural services.....	79,311	6,662	40,755
57	Scientific research and development services.....	26,388	404	21,166
58	Advertising and market research services; Security	46,283	21,784	20,265
59	Public administration and defence services;	350,665	27,167	2,220
60	Compulsory social security services.....	34,971	-	-
61	Education services.....	224,402	43,194	-
62	Human health services.....	352,202	86,346	-
63	Residential care services; Social work services	151,234	24,584	-
64	Arts, entertainment and recreation services.....	92,856	50,542	1,798
65	Services furnished by membership organisations.....	25,083	2,274	-
66	Repair services of computers and personal and household goods.....	114,521	114,349	302
67	Total final domestic uses.....	17,578,774	5,933,679	8,488,428

Table 3.4.2: Embodied energy of goods for final use 2010

No.	Goods groups	Total final use	including	
			Domestic final consumption of private households	Exports and ocean bunkering
			percentage of total	
1	Products of agriculture, hunting and related services.....	1.5	2.7	0.6
2	Products of forestry, logging and related services.....	0.0	0.1	0.0
3	Fish and other fishing products; aquaculture products.....	0.0	0.0	0.0
4	Hard coal.....	0.0	0.0	0.0
5	Lignite.....	0.0	0.0	0.0
6	Crude petroleum and natural gas.....	0.2	0.6	0.0
7	Metal ores; Other mining and quarrying products; Mining support services.....	0.1	0.0	0.1
8	Food products; Beverages; Tobacco products.....	6.0	13.7	3.3
9	Textiles; Wearing apparel; Leather and related products.....	1.7	4.0	1.0
10	Wood, products of wood and cork, except furniture.....	0.7	0.5	0.7
11	Paper and paper products.....	2.4	1.4	3.9
12	Printing and recording services.....	0.1	0.3	0.2
13	Coke oven products.....	0.1	0.0	0.0
14	Refined petroleum products.....	2.0	4.1	1.2
15	Basic chemicals.....	9.9	0.7	19.7
16	Other chemical products.....	4.6	3.0	6.9
17	Pharmaceutical products	1.3	0.8	1.8
18	Rubber and plastics products.....	2.6	1.1	4.4
19	Glass and glass products	0.6	0.4	0.9
20	Ceramic products; Cut, shaped and finished stone.....	0.7	0.4	0.9
21	Basic iron and steel; other products of the first processing of steel.....	4.4	-	8.8
22	Aluminium.....	1.2	-	2.1
23	Other non-ferrous metals.....	0.9	-	1.7
24	Casting services of metals.....	0.0	-	0.0
25	Fabricated metal products.....	1.9	0.5	2.6
26	Computer, electronic and optical products.....	2.2	1.0	2.5
27	Electrical equipment.....	1.5	0.6	2.2
28	Machinery and equipment n.e.c.....	4.9	0.2	7.2
29	Motor vehicles, trailers and semi-trailers.....	8.3	5.8	11.3
30	Other transport equipment.....	1.2	0.2	1.6
31	Furniture; Other manufactured goods.....	1.4	1.8	1.0
32	Repair and installation services of machinery and equipment.....	0.3	0.0	0.2
33	Electricity, transmission and distribution services.....	7.8	14.8	4.1
34	Manufactured gas; distribution services of gaseous fuels through mains.....	0.1	-	-
35	Steam supply services.....	0.2	0.5	0.0
36	Natural water; water treatment and supply services.....	0.1	1.0	-
37	Sewerage, Waste management and remediation services.....	0.6	1.6	0.3
38	Buildings and building construction works.....	2.2	-	-
39	Specialised construction works.....	2.3	0.3	0.0
40	Wholesale and retail trade and repair services of motor vehicles	0.8	1.9	0.1
41	Wholesale trade services, except of motor vehicles and motorcycles.....	1.5	1.1	1.9
42	Retail trade services, except of motor vehicles and motorcycles.....	2.8	7.6	0.0
43	Rail transport services.....	0.9	2.5	0.1
44	Other land transport services.....	0.4	1.2	0.1
45	Water transport services.....	0.9	0.1	1.8
46	Air transport services.....	2.7	4.9	2.2
47	Warehousing and support services for transportation.....	0.4	0.2	0.4
48	Postal and courier services.....	0.1	0.2	0.1
49	Accommodation and food serving services.....	1.9	5.1	0.3
50	Publishing services.....	0.3	0.7	0.1
51	Motion picture, video and television programme services.....	0.3	0.5	0.1
52	Telecommunications services.....	0.5	1.3	0.1
53	Information services.....	0.3	0.0	0.2
54	Financial and insurance services.....	0.7	1.5	0.3
55	Real estate services.....	1.0	2.9	0.0
56	Legal and accounting services, business services, architectural services.....	0.5	0.1	0.5
57	Scientific research and development services.....	0.2	0.0	0.2
58	Advertising and market research services; Security	0.3	0.4	0.2
59	Public administration and defence services;	2.0	0.5	0.0
60	Compulsory social security services.....	0.2	-	-
61	Education services.....	1.3	0.7	-
62	Human health services.....	2.0	1.5	-
63	Residential care services; Social work services	0.9	0.4	-
64	Arts, entertainment and recreation services.....	0.5	0.9	0.0
65	Services furnished by membership organisations.....	0.1	0.0	-
66	Repair services of computers and personal and household goods.....	0.7	1.9	0.0
67	Total final domestic uses.....	100.0	100.0	100.0

Table 3.4.3: Energy consumption of industries on the national territory and abroad at the production of goods for final use 2010

No.	Goods groups	Final use			
		Domestic	including:	Imports	Total
			Exports ¹⁾		
		terajoules			
1	Products of agriculture, hunting and related services.....	208,931	61,095	151,506	360,436
2	Products of forestry, logging and related services.....	3,027	1,089	2,283	5,310
3	Fish and other fishing products; aquaculture products.....	1,699	522	1,860	3,558
4	Hard coal.....	17,462	9,552	76,963	94,425
5	Lignite.....	26,042	11,030	7,115	33,157
6	Crude petroleum and natural gas.....	9,564	3,448	272,193	281,756
7	Metal ores; Other mining and quarrying products; Mining support services.....	20,504	11,653	62,994	83,498
8	Food products; Beverages; Tobacco products.....	228,921	68,712	80,490	309,411
9	Textiles; Wearing apparel; Leather and related products.....	27,796	18,166	56,131	83,927
10	Wood, products of wood and cork, except furniture.....	87,811	36,789	46,638	134,449
11	Paper and paper products.....	245,515	172,154	264,799	510,315
12	Printing and recording services.....	24,184	8,208	7,477	31,660
13	Coke oven products.....	75,502	58,833	122,328	197,830
14	Refined petroleum products.....	281,855	117,749	291,422	573,277
15	Basic chemicals.....	1,294,860	1,209,189	1,689,060	2,983,920
16	Other chemical products.....	145,226	122,135	119,031	264,256
17	Pharmaceutical products	20,980	19,510	13,544	34,524
18	Rubber and plastics products.....	96,118	69,553	54,997	151,115
19	Glass and glass products	87,802	60,362	70,576	158,378
20	Ceramic products; Cut, shaped and finished stone.....	192,175	59,246	57,255	249,429
21	Basic iron and steel; other products of the first processing of steel.....	528,048	464,485	653,988	1,182,037
22	Aluminium.....	50,648	42,213	195,967	246,615
23	Other non-ferrous metals.....	25,229	23,859	58,010	83,239
24	Casting services of metals.....	47,081	33,019	19,952	67,032
25	Fabricated metal products.....	108,444	68,860	56,439	164,883
26	Computer, electronic and optical products.....	29,997	27,188	45,964	75,961
27	Electrical equipment.....	34,358	24,109	19,273	53,630
28	Machinery and equipment n.e.c.....	95,255	72,614	34,503	129,758
29	Motor vehicles, trailers and semi-trailers.....	125,362	93,234	44,364	169,726
30	Other transport equipment.....	15,780	15,249	19,843	35,623
31	Furniture; Other manufactured goods.....	26,150	12,405	14,653	40,803
32	Repair and installation services of machinery and equipment.....	17,480	8,204	10,401	27,881
33	Electricity, transmission and distribution services.....	3,399,043	1,410,462	1,532,501	4,931,544
34	Manufactured gas; distribution services of gaseous fuels through mains.....	34,969	20,501	27,075	62,045
35	Steam supply services.....	59,554	15,234	27,662	87,216
36	Natural water; water treatment and supply services.....	21,718	4,576	5,756	27,474
37	Sewerage, Waste management and remediation services.....	75,165	22,769	38,770	113,935
38	Buildings and building construction works.....	150,033	3,227	3,995	154,028
39	Specialised construction works.....	83,556	6,735	7,801	91,358
40	Wholesale and retail trade and repair services of motor vehicles	66,768	14,325	8,384	75,152
41	Wholesale trade services, except of motor vehicles and motorcycles.....	116,372	57,836	35,703	152,075
42	Retail trade services, except of motor vehicles and motorcycles.....	245,969	15,790	17,694	263,662
43	Rail transport services.....	79,741	14,171	21,229	100,970
44	Other land transport services.....	175,832	65,824	303,140	478,972
45	Water transport services.....	76,328	71,491	17,528	93,856
46	Air transport services.....	429,626	177,357	92,826	522,453
47	Warehousing and support services for transportation.....	171,316	83,678	92,900	264,216
48	Postal and courier services.....	47,717	12,892	15,030	62,748
49	Accommodation and food serving services.....	110,478	11,615	13,413	123,891
50	Publishing services.....	1,540	348	348	1,888
51	Motion picture, video and television programme services.....	29,417	6,110	7,089	36,506
52	Telecommunications services.....	30,739	5,779	7,429	38,168
53	Information services.....	28,058	11,255	12,547	40,604
54	Financial and insurance services.....	46,190	10,568	9,354	55,544
55	Real estate services.....	43,220	4,061	3,854	47,074
56	Legal and accounting services, business services, architectural services.....	118,568	50,768	65,090	183,658
57	Scientific research and development services.....	9,903	6,367	6,462	16,365
58	Advertising and market research services; Security	61,214	23,046	25,787	87,001
59	Public administration and defence services;	146,047	8,677	10,350	156,397
60	Compulsory social security services.....	12,117	6	7	12,124
61	Education services.....	124,499	2,193	2,040	126,539
62	Human health services.....	126,826	489	489	127,315
63	Residential care services; Social work services	66,693	-	-	66,693
64	Arts, entertainment and recreation services.....	61,342	2,846	2,707	64,049
65	Services furnished by membership organisations.....	1,229	86	105	1,334
66	Repair services of computers and personal and household goods.....	82,266	6,460	7,834	90,099
67	Total final domestic uses.....	10,533,856	5,151,972	7,044,918	17,578,774

1) Excl. re-exports.

Table 3.4.3: Energy consumption of industries on the national territory and abroad at the production of goods for final use 2010

No.	Goods groups	Final use			
		Domestic	including:	Imports	Total
			Exports ¹⁾ Domestic = 100		
percentage of total					
1	Products of agriculture, hunting and related services.....	58.0	29.2	42.0	100
2	Products of forestry, logging and related services.....	57.0	36.0	43.0	100
3	Fish and other fishing products; aquaculture products.....	47.7	30.7	52.3	100
4	Hard coal.....	18.5	54.7	81.5	100
5	Lignite.....	78.5	42.4	21.5	100
6	Crude petroleum and natural gas.....	3.4	36.1	96.6	100
7	Metal ores; Other mining and quarrying products; Mining support services.....	24.6	56.8	75.4	100
8	Food products; Beverages; Tobacco products.....	74.0	30.0	26.0	100
9	Textiles; Wearing apparel; Leather and related products.....	33.1	65.4	66.9	100
10	Wood, products of wood and cork, except furniture.....	65.3	41.9	34.7	100
11	Paper and paper products.....	48.1	70.1	51.9	100
12	Printing and recording services.....	76.4	33.9	23.6	100
13	Coke oven products.....	38.2	77.9	61.8	100
14	Refined petroleum products.....	49.2	41.8	50.8	100
15	Basic chemicals.....	43.4	93.4	56.6	100
16	Other chemical products.....	55.0	84.1	45.0	100
17	Pharmaceutical products	60.8	93.0	39.2	100
18	Rubber and plastics products.....	63.6	72.4	36.4	100
19	Glass and glass products	55.4	68.7	44.6	100
20	Ceramic products; Cut, shaped and finished stone.....	77.0	30.8	23.0	100
21	Basic iron and steel; other products of the first processing of steel.....	44.7	88.0	55.3	100
22	Aluminium.....	20.5	83.3	79.5	100
23	Other non-ferrous metals.....	30.3	94.6	69.7	100
24	Casting services of metals.....	70.2	70.1	29.8	100
25	Fabricated metal products.....	65.8	63.5	34.2	100
26	Computer, electronic and optical products.....	39.5	90.6	60.5	100
27	Electrical equipment.....	64.1	70.2	35.9	100
28	Machinery and equipment n.e.c.....	73.4	76.2	26.6	100
29	Motor vehicles, trailers and semi-trailers.....	73.9	74.4	26.1	100
30	Other transport equipment.....	44.3	96.6	55.7	100
31	Furniture; Other manufactured goods.....	64.1	47.4	35.9	100
32	Repair and installation services of machinery and equipment.....	62.7	46.9	37.3	100
33	Electricity, transmission and distribution services.....	68.9	41.5	31.1	100
34	Manufactured gas; distribution services of gaseous fuels through mains.....	56.4	58.6	43.6	100
35	Steam supply services.....	68.3	25.6	31.7	100
36	Natural water; water treatment and supply services.....	79.0	21.1	21.0	100
37	Sewerage, Waste management and remediation services.....	66.0	30.3	34.0	100
38	Buildings and building construction works.....	97.4	2.2	2.6	100
39	Specialised construction works.....	91.5	8.1	8.5	100
40	Wholesale and retail trade and repair services of motor vehicles	88.8	21.5	11.2	100
41	Wholesale trade services, except of motor vehicles and motorcycles.....	76.5	49.7	23.5	100
42	Retail trade services, except of motor vehicles and motorcycles.....	93.3	6.4	6.7	100
43	Rail transport services.....	79.0	17.8	21.0	100
44	Other land transport services.....	36.7	37.4	63.3	100
45	Water transport services.....	81.3	93.7	18.7	100
46	Air transport services.....	82.2	41.3	17.8	100
47	Warehousing and support services for transportation.....	64.8	48.8	35.2	100
48	Postal and courier services.....	76.0	27.0	24.0	100
49	Accommodation and food serving services.....	89.2	10.5	10.8	100
50	Publishing services.....	81.6	22.6	18.4	100
51	Motion picture, video and television programme services.....	80.6	20.8	19.4	100
52	Telecommunications services.....	80.5	18.8	19.5	100
53	Information services.....	69.1	40.1	30.9	100
54	Financial and insurance services.....	83.2	22.9	16.8	100
55	Real estate services.....	91.8	9.4	8.2	100
56	Legal and accounting services, business services, architectural services.....	64.6	42.8	35.4	100
57	Scientific research and development services.....	60.5	64.3	39.5	100
58	Advertising and market research services; Security	70.4	37.6	29.6	100
59	Public administration and defence services;	93.4	5.9	6.6	100
60	Compulsory social security services.....	99.9	0.0	0.1	100
61	Education services.....	98.4	1.8	1.6	100
62	Human health services.....	99.6	0.4	0.4	100
63	Residential care services; Social work services	100.0	-	-	100
64	Arts, entertainment and recreation services.....	95.8	4.6	4.2	100
65	Services furnished by membership organisations.....	92.1	7.0	7.9	100
66	Repair services of computers and personal and household goods.....	91.3	7.9	8.7	100
67	Total final domestic uses.....	59.9	48.9	40.1	100

1) Excl. re-exports.

Table 3.5.1: Emission-relevant domestic energy consumption
terajoules

No.	CPA ¹⁾	Homogeneous branches ^{2) 3)}	1995	2000	2005	2010	2011	2012
1	A	Products of agriculture, forestry and fishing.....	233,553	149,879	147,362	179,049	177,244	190,532
2	01	Products of agriculture, hunting and related services.....	230,119	147,056	144,346	175,520	173,895	187,227
3	02	Products of forestry, logging and related services.....	2,388	1,838	2,051	2,455	2,325	2,294
4	03	Fish and other fishing products; aquaculture products.....	1,046	984	965	1,074	1,023	1,010
5	B	Mining and quarrying.....	77,350	48,304	45,931	39,751	54,480	29,601
6	05	Coal and lignite.....	26,156	10,665	16,939	18,376	35,073	11,495
7	06	Crude petroleum and natural gas.....	19,858	22,033	14,833	8,991	8,965	8,597
8	07-09	Metal ores, other mining and quarrying products.....	31,336	15,606	14,159	12,384	10,443	9,509
9	C	Manufactured products.....	2,146,882	2,077,118	2,005,436	2,045,424	2,047,913	1,954,342
10	10-12	Food products, beverages, tobacco products.....	167,752	157,997	152,395	154,476	146,444	146,922
11	13-15	Textiles, wearing apparel, leather and related products.....	41,338	31,063	26,368	16,141	15,404	14,970
12	16	Wood and products of wood and cork, except furniture.....	24,087	25,665	47,202	65,608	70,937	46,424
13	17	Paper and paper products.....	120,414	118,942	215,184	156,049	138,361	127,245
14	18	Printing and recording services.....	9,968	13,491	13,406	11,455	10,343	11,354
15	19	Coke and refined petroleum products.....	304,346	306,951	327,529	282,936	286,734	276,519
16	19.1	Coke oven products.....	62,667	46,183	24,386	24,743	23,963	23,021
17	19.2	Refined petroleum products.....	241,679	260,767	303,143	258,193	262,772	253,498
18	20	Chemicals and chemical products.....	299,574	253,284	208,389	312,228	330,079	310,980
19	21	Basic pharmaceutical products and pharmaceutical preparations.....	31,776	42,442	19,256	6,791	5,701	5,365
20	22	Rubber and plastic products.....	34,634	31,194	32,288	34,588	28,785	28,960
21	23	Other non-metallic mineral products.....	289,138	286,184	229,642	259,531	268,932	258,853
22	23.1	Glass and glass products.....	86,181	80,463	70,175	69,357	71,200	65,313
23	23.2-9	Refractory products, cut, shaped and finished stone.....	202,957	205,720	159,467	190,174	197,732	193,541
24	24	Basic metals.....	584,967	608,385	533,270	543,965	551,374	531,651
25	24.1-3	Basic iron and steel and ferro-alloys, other products of steel.....	529,496	546,014	477,140	482,876	491,767	474,270
26	24.4	Basic precious and other non-ferrous metals.....	35,660	38,610	32,763	32,747	30,723	29,402
27	24.5	Casting services of metal.....	19,811	23,761	23,367	28,342	28,884	27,979
28	25	Fabricated metal products, except machinery and equipment.....	58,919	55,349	52,851	55,773	53,730	52,253
29	26	Computer, electronic and optical products.....	19,423	14,872	11,567	9,235	9,047	10,006
30	27	Electrical equipment.....	21,509	11,889	10,747	12,693	13,399	12,370
31	28	Machinery and equipment n.e.c.....	61,663	47,150	49,742	47,705	43,757	45,333
32	29	Motor vehicles, trailers and semi-trailers.....	49,977	49,471	52,310	47,302	48,083	47,510
33	30	Other transport equipment.....	12,926	9,733	9,235	9,359	7,596	7,868
34	31-32	Furniture, other manufacture goods.....	12,160	10,700	11,965	13,491	13,498	13,805
35	33	Repair and installation services of machinery and equipment.....	2,310	2,355	2,091	6,098	5,708	5,954
36	D (35)	Electricity, gas, steam and air conditioning.....	3,813,593	3,805,046	4,249,927	4,433,182	4,392,371	4,330,388
37	35.1/-3	Electricity, transmission and distribution services, steam.....	3,813,145	3,804,587	4,216,781	4,406,615	4,372,014	4,311,577
38	35.2	Manufactured gas.....	448	459	33,146	26,567	20,356	18,811
39	E	Water supply; sewerage, waste management and remediation services.....	97,857	101,345	67,539	77,057	70,898	66,695
40	36	Natural water; water treatment and supply services.....	386	482	582	1,152	985	941
41	37-39	Sewerage services; waste collection and materials recovery services.....	97,471	100,863	66,956	75,905	69,912	65,754
42	37	Sewerage services, sewerage sludge.....	8,738	9,156	6,067	6,265	6,050	5,775
43	38-39	Waste collection, treatment and disposal services.....	88,733	91,707	60,890	69,639	63,862	59,979
44	F	Constructions and construction works.....	159,334	126,414	108,599	101,910	103,669	105,055
45	41-42	Building and building construction works.....	83,770	62,648	53,048	37,675	38,047	38,651
46	43	Specialised construction works.....	75,564	63,766	55,551	64,235	65,622	66,403
47	G	Wholesale and retail trade services; repair services of motor vehicles.....	349,350	331,591	296,475	271,048	262,174	259,882
48	45	Wholesale and retail trade and repair services of motor vehicles.....	39,992	41,749	31,652	28,860	28,206	28,364
49	46	Wholesale trade services, except of motor vehicles and motorcycles.....	118,053	114,669	102,364	83,992	83,230	82,411
50	47	Retail trade services, except of motor vehicles and motorcycles.....	191,305	175,173	162,460	158,197	150,737	149,107
51	H	Transportation and storage services.....	350,393	401,603	413,222	431,179	430,689	422,658
52	49.1-2	Passenger rail transport services, freight rail transport services.....	37,134	30,746	23,690	22,144	22,164	20,698
53	49.3-5	Other passenger land transport services, transport service via pipeline...	102,643	137,835	149,972	152,667	152,282	149,288
54	50	Water transport services.....	21,829	14,413	15,889	18,275	18,535	18,008
55	51	Air transport services.....	35,910	41,389	41,639	41,449	39,304	39,701
56	52	Warehousing and support services for transportation.....	111,850	129,759	134,512	152,103	153,073	149,826
57	53	Postal and courier services.....	41,026	47,461	47,519	44,541	45,332	45,137
58	I	Accommodation and food services.....	64,506	62,742	57,771	57,381	55,063	53,067
59	J	Information and communication services.....	56,495	65,226	69,480	53,200	50,756	49,488
60	K	Financial and insurance services.....	36,013	31,850	30,450	28,763	25,041	24,774
61	L	Real estate services.....	11,522	12,600	15,839	17,945	17,342	17,612
62	M	Professional, scientific and technical services.....	97,622	114,441	113,690	123,456	117,890	115,501
63	N	Administrative and support services.....	15,474	75,475	66,072	72,683	72,253	68,955
64	O	Public administration and defence services.....	145,646	114,750	103,432	104,848	95,241	93,998
65	P	Education services.....	85,068	80,469	76,193	68,786	61,764	62,554
66	Q	Human health and social work services.....	99,687	101,075	99,029	110,869	100,174	102,076
67	R-T	Other services.....	143,692	145,097	115,339	92,830	83,890	86,206
68		All homogeneous branches.....	7,984,037	7,845,028	8,081,786	8,309,361	8,218,851	8,033,386
69		Private households (residents consumption).....	3,340,793	3,296,368	3,277,372	3,265,350	2,989,293	3,044,460
70		All homogeneous branches and private households (residents concept).....	11,324,830	11,141,396	11,359,158	11,574,712	11,208,144	11,077,845

1) Statistical Classification of Products by Activity (CPA) of the European Union (2008 edition).

2) Including biogas and generation plants of other energy producers.

3) Substitute fuels, etc., which are not listed in the national energy balance sheets.

Table 3.5.2.1: Emission-relevant energy consumption by type of energy sources 2000

terajoules

No.	CPA ¹⁾	Homogeneous branches	Total	Hard coal and hard coal products	Lignite and lignite products	Mineral oil			
						Together	Crude oil	Motor gasoline	Gas-diesel oil
1	A	Products of agriculture, forestry and fishing.....	149,879	1,329	678	103,508	0	6,454	61,416
2	01	Products of agriculture, hunting and related services.....	147,056	1,329	678	100,692	0	6,221	58,832
3	02	Products of forestry, logging and related services.....	1,838	0	0	1,832	0	230	1,602
4	03	Fish and other fishing products; aquaculture products.....	984	0	0	984	0	3	981
5	B	Mining and quarrying.....	48,304	1,291	8,427	10,397	0	676	4,909
6	05	Coal and lignite.....	10,665	211	6,955	2,325	0	261	1,266
7	06	Crude petroleum and natural gas.....	22,033	0	0	513	0	114	392
8	07-09	Metal ores, other mining and quarrying products.....	15,606	1,080	1,472	7,559	0	301	3,251
9	C	Manufactured products.....	2,077,118	389,335	53,471	577,283	0	21,253	51,323
10	10-12	Food products, beverages, tobacco products.....	157,997	6,212	5,041	51,289	0	2,164	5,722
11	13-15	Textiles, wearing apparel, leather and related products.....	31,063	1,143	10	7,906	0	539	1,193
12	16	Wood and products of wood and cork, except furniture.....	25,665	89	59	7,794	0	400	940
13	17	Paper and paper products.....	118,942	13,630	3,039	8,580	0	537	1,224
14	18	Printing and recording services.....	13,491	0	0	3,112	0	293	871
15	19	Coke and refined petroleum products.....	306,951	29	380	245,983	0	584	1,650
16	19.1	Coke oven products.....	46,183	29	0	30	0	0	0
17	19.2	Refined petroleum products.....	260,767	0	380	245,952	0	584	1,650
18	20	Chemicals and chemical products.....	253,284	8,080	5,414	33,797	0	1,865	4,366
19	21	Basic pharmaceutical products and pharmaceutical preparations.....	42,442	1,636	195	19,513	0	414	985
20	22	Rubber and plastic products.....	31,197	0	108	9,183	0	931	2,128
21	23	Other non-metallic mineral products.....	286,184	48,245	38,595	53,607	0	731	1,768
22	23.1	Glass and glass products.....	80,463	0	0	15,198	0	162	366
23	23.2-9	Refractory products, cut, shaped and finished stone.....	205,720	48,245	38,595	38,409	0	569	1,403
24	24	Basic metals.....	608,385	307,889	482	49,910	0	1,071	2,466
25	24.1-3	Basic iron and steel and ferro-alloys, other products of steel.....	546,014	293,923	2	40,680	0	555	1,276
26	24.4	Basic precious and other non-ferrous metals.....	38,610	3,360	396	6,725	0	371	853
27	24.5	Casting services of metal.....	23,761	10,605	83	2,506	0	145	338
28	25	Fabricated metal products, except machinery and equipment.....	55,349	648	53	20,570	0	1,673	4,114
29	26	Computer, electronic and optical products.....	14,872	16	8	7,631	0	1,022	2,222
30	27	Electrical equipment.....	11,889	556	83	8,128	0	1,208	3,022
31	28	Machinery and equipment n.e.c.....	47,150	440	0	22,429	0	2,428	5,810
32	29	Motor vehicles, trailers and semi-trailers.....	49,471	723	4	16,970	0	3,661	8,637
33	30	Other transport equipment.....	9,733	1	1	2,595	0	466	1,136
34	31-32	Furniture, other manufacture goods.....	10,700	0	0	5,984	0	615	1,414
35	33	Repair and installation services of machinery and equipment.....	2,355	0	0	2,304	0	651	1,653
36	D (35)	Electricity, gas, steam and air conditioning.....	3,805,046	1,363,356	1,451,322	97,745	0	659	2,618
37	35.1/.3	Electricity, transmission and distribution services, steam.....	3,804,587	1,363,356	1,451,322	97,287	0	556	2,262
38	35.2	Manufactured gas.....	459	0	0	458	0	102	356
39	E	Water supply; sewerage, waste management and remediation services.....	101,345	646	3	84,268	0	10,680	62,092
40	36	Natural water; water treatment and supply services.....	482	0	0	481	0	109	372
41	37-39	Sewerage services; waste collection and materials recovery services.....	100,863	646	3	83,787	0	10,572	61,720
42	37	Sewerage services, sewerage sludge.....	9,156	0	0	9,043	0	1,689	7,354
43	38-39	Waste collection, treatment and disposal services.....	91,707	646	3	74,744	0	8,883	54,366
44	F	Constructions and construction works.....	126,414	442	226	108,836	0	11,726	65,896
45	41-42	Building and building construction works.....	62,648	216	110	54,062	0	5,313	33,207
46	43	Specialised construction works.....	63,766	226	115	54,773	0	6,412	32,689
47	G	Wholesale and retail trade services; repair services of motor vehicles.....	331,591	4,070	2,077	220,540	0	34,093	106,178
48	45	Wholesale and retail trade and repair services of motor vehicles.....	41,749	454	232	27,374	0	1,352	9,186
49	46	Wholesale trade services, except of motor vehicles and motorcycles.....	114,669	793	405	82,927	0	7,344	60,460
50	47	Retail trade services, except of motor vehicles and motorcycles.....	175,173	2,823	1,441	110,240	0	25,396	36,532
51	H	Transportation and storage services.....	401,603	29	431	386,006	0	8,866	339,184
52	49.1-2	Passenger rail transport services, freight rail transport services.....	30,746	29	431	29,798	0	41	29,044
53	49.3-5	Other passenger land transport services, transport service via pipeline.....	137,835	0	0	134,633	0	4,750	129,676
54	50	Water transport services.....	14,413	0	0	14,394	0	8	14,386
55	51	Air transport services.....	41,389	0	0	41,363	0	277	9,282
56	52	Warehousing and support services for transportation.....	129,759	0	0	121,167	0	1,313	116,415
57	53	Postal and courier services.....	47,461	0	0	44,650	0	2,478	40,380
58	I	Accommodation and food services.....	62,742	980	500	30,421	0	2,647	1,442
59	J	Information and communication services.....	65,226	0	0	52,771	0	9,837	32,954
60	K	Financial and insurance services.....	31,850	0	0	16,811	0	2,171	1,157
61	L	Real estate services.....	12,600	0	0	9,811	0	3,809	3,234
62	M	Professional, scientific and technical services.....	114,441	0	0	96,641	0	37,456	44,695
63	N	Administrative and support services.....	75,475	0	0	69,796	0	2,004	65,165
64	O	Public administration and defence services.....	114,750	2,494	2,135	79,349	0	12,327	18,599
65	P	Education services.....	80,469	586	299	22,705	0	353	952
66	Q	Human health and social work services.....	101,075	2,315	1,181	28,468	0	2,974	1,931
67	R-T	Other services.....	145,097	337	172	102,915	0	11,894	68,227
68		All homogeneous branches.....	7,845,028	1,767,211	1,520,921	2,098,271	0	179,882	931,971
69		Private households (domestic consumption).....	3,296,368	28,252	20,114	2,133,181	0	1,125,723	258,577
70		All homogeneous branches and private households (domestic concept).....	11,141,396	1,795,463	1,541,035	4,231,452	0	1,305,605	1,190,547

1) Statistical Classification of Products by Activity (CPA) of the European Union (2008 edition).

2) Including biogas and generation plants of other energy producers.

3) Substitute fuels, etc., which are not listed in the national energy balance sheets.

Table 3.5.2.1: Emission-relevant energy consumption by type of energy sources 2000

terajoules

Mineral oil				Gases	Renewable energies and other non-renewable energy sources					Electricity	Nuclear energy	Remote heating	Other fossil sources ²⁾	No.
Air fuel	Light fuel oil	Heavy fuel oil	Other mineral oil products		Together	Water and wind power, solar energy plant and other	biomass	Renewable energies	non-renewable waste, waste heat, etc.					
0	34,750	0	888	13,323	415	0	415	0	0	0	0	0	30,625	1
0	34,750	0	888	13,323	409	0	409	0	0	0	0	0	30,625	2
0	0	0	0	0	6	0	6	0	0	0	0	0	0	3
0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
0	4,250	562	0	28,124	65	0	65	0	0	0	0	0	0	5
0	768	30	0	1,168	6	0	6	0	0	0	0	0	0	6
0	7	0	0	21,517	3	0	3	0	0	0	0	0	0	7
0	3,475	532	0	5,439	57	0	57	0	0	0	0	0	0	8
0	114,107	148,750	241,849	1,009,792	14,573	0	14,573	0	0	0	0	0	32,665	9
0	30,348	9,506	3,550	95,404	50	0	50	0	0	0	0	0	0	10
0	5,204	942	28	21,992	12	0	12	0	0	0	0	0	0	11
0	4,291	2,030	133	9,968	7,755	0	7,755	0	0	0	0	0	0	12
0	3,008	2,839	972	79,812	5,913	0	5,913	0	0	0	0	0	7,968	13
0	1,933	0	14	10,370	9	0	9	0	0	0	0	0	0	14
0	2,414	52,921	188,413	60,544	15	0	15	0	0	0	0	0	0	15
0	30	0	0	46,124	0	0	0	0	0	0	0	0	0	16
0	2,384	52,921	188,413	14,420	15	0	15	0	0	0	0	0	0	17
0	4,152	19,204	4,210	205,948	46	0	46	0	0	0	0	0	0	18
0	984	1,917	15,213	21,092	5	0	5	0	0	0	0	0	0	19
0	5,149	878	93	21,884	22	0	22	0	0	0	0	0	0	20
0	9,768	20,029	21,311	120,633	407	0	407	0	0	0	0	0	24,696	21
0	1,386	9,768	3,517	65,261	4	0	4	0	0	0	0	0	0	22
0	8,382	10,262	17,794	55,372	403	0	403	0	0	0	0	0	24,696	23
0	5,098	37,324	3,951	250,079	26	0	26	0	0	0	0	0	0	24
0	1,164	36,021	1,664	211,395	13	0	13	0	0	0	0	0	0	25
0	2,358	1,221	1,922	28,120	9	0	9	0	0	0	0	0	0	26
0	1,576	82	365	10,563	4	0	4	0	0	0	0	0	0	27
0	13,514	188	1,081	34,038	41	0	41	0	0	0	0	0	0	28
0	4,359	0	28	7,175	42	0	42	0	0	0	0	0	0	29
0	3,762	122	14	3,074	48	0	48	0	0	0	0	0	0	30
0	11,731	639	1,820	24,220	62	0	62	0	0	0	0	0	0	31
0	3,739	48	885	31,681	94	0	94	0	0	0	0	0	0	32
0	898	0	95	7,124	12	0	12	0	0	0	0	0	0	33
0	3,756	163	37	4,702	14	0	14	0	0	0	0	0	0	34
0	0	0	0	50	0	0	0	0	0	0	0	0	0	35
0	23,560	34,209	36,700	647,099	130,412	0	73,950	0	56,462	0	0	0	115,112	36
0	23,560	34,209	36,700	647,099	130,411	0	73,949	0	56,462	0	0	0	115,112	37
0	0	0	0	0	1	0	1	0	0	0	0	0	0	38
0	408	335	10,753	503	15,925	0	15,925	0	0	0	0	0	0	39
0	0	0	0	0	1	0	1	0	0	0	0	0	0	40
0	408	335	10,753	503	15,923	0	15,923	0	0	0	0	0	0	41
0	0	0	0	0	113	0	113	0	0	0	0	0	0	42
0	408	335	10,753	503	15,811	0	15,811	0	0	0	0	0	0	43
0	29,673	0	1,540	16,546	365	0	365	0	0	0	0	0	0	44
0	14,830	0	711	8,080	179	0	179	0	0	0	0	0	0	45
0	14,843	0	829	8,466	185	0	185	0	0	0	0	0	0	46
0	79,310	0	959	103,927	977	0	977	0	0	0	0	0	0	47
0	16,835	0	0	13,547	143	0	143	0	0	0	0	0	0	48
0	15,116	0	7	30,023	521	0	521	0	0	0	0	0	0	49
0	47,359	0	952	60,356	314	0	314	0	0	0	0	0	0	50
31,804	5,737	0	415	9,506	5,632	0	5,632	0	0	0	0	0	0	51
0	506	0	207	435	53	0	53	0	0	0	0	0	0	52
0	0	0	207	0	3,202	0	3,202	0	0	0	0	0	0	53
0	0	0	0	0	19	0	19	0	0	0	0	0	0	54
31,804	0	0	0	0	26	0	26	0	0	0	0	0	0	55
0	3,439	0	0	7,002	1,590	0	1,590	0	0	0	0	0	0	56
0	1,792	0	0	2,069	741	0	741	0	0	0	0	0	0	57
0	24,674	0	1,658	30,834	7	0	7	0	0	0	0	0	0	58
0	9,976	0	4	12,231	225	0	225	0	0	0	0	0	0	59
0	13,482	0	0	15,026	13	0	13	0	0	0	0	0	0	60
0	2,767	0	0	2,770	19	0	19	0	0	0	0	0	0	61
0	13,895	0	595	17,603	197	0	197	0	0	0	0	0	0	62
0	2,627	0	0	5,521	157	0	157	0	0	0	0	0	0	63
9,862	36,934	205	1,422	30,743	29	0	29	0	0	0	0	0	0	64
0	21,400	0	0	56,876	3	0	3	0	0	0	0	0	0	65
0	23,562	0	0	69,091	20	0	20	0	0	0	0	0	0	66
0	22,793	0	1	40,884	789	0	789	0	0	0	0	0	0	67
41,666	463,907	184,061	296,785	2,110,400	169,824	0	113,362	0	56,462	0	0	0	178,401	68
0	712,139	0	36,742	947,732	167,089	0	167,089	0	0	0	0	0	0	69
41,666	1,176,046	184,061	333,527	3,058,132	336,913	0	280,451	0	56,462	0	0	0	178,401	70

Table 3.5.2.2: Emission-relevant energy consumption by type of energy sources 2005

terajoules

No.	CPA ¹⁾	Homogeneous branches	Total	Hard coal and hard coal products	Lignite and lignite products	Mineral oil			
						Together	Crude oil	Motor gasoline	Gas-diesel oil
1	A	Products of agriculture, forestry and fishing.....	147,362	975	25	99,467	0	5,372	65,818
2	01	Products of agriculture, hunting and related services.....	144,346	975	25	96,485	0	5,241	62,967
3	02	Products of forestry, logging and related services.....	2,051	0	0	2,018	0	124	1,893
4	03	Fish and other fishing products; aquaculture products.....	965	0	0	964	0	6	958
5	B	Mining and quarrying.....	45,931	7,504	10,753	7,466	0	239	3,074
6	05	Coal and lignite.....	16,939	6,159	8,783	1,088	0	67	721
7	06	Crude petroleum and natural gas.....	14,833	0	0	564	0	55	471
8	07-09	Metal ores, other mining and quarrying products.....	14,159	1,345	1,970	5,813	0	116	1,882
9	C	Manufactured products.....	2,005,436	295,077	57,401	539,109	0	12,177	51,007
10	10-12	Food products, beverages, tobacco products.....	152,395	3,383	5,699	38,318	0	1,289	5,097
11	13-15	Textiles, wearing apparel, leather and related products.....	26,368	772	0	7,501	0	219	870
12	16	Wood and products of wood and cork, except furniture.....	47,202	0	269	3,945	0	191	1,033
13	17	Paper and paper products.....	215,184	13,670	3,406	6,921	0	262	1,073
14	18	Printing and recording services.....	13,406	0	0	3,014	0	203	808
15	19	Coke and refined petroleum products.....	327,529	0	325	286,954	0	461	2,106
16	19.1	Coke oven products.....	24,386	0	0	16	0	3	13
17	19.2	Refined petroleum products.....	303,143	0	325	286,938	0	458	2,093
18	20	Chemicals and chemical products.....	208,389	1,146	4,556	28,284	0	927	3,695
19	21	Basic pharmaceutical products and pharmaceutical preparations.....	19,256	0	29	8,234	0	225	898
20	22	Rubber and plastic products.....	32,288	32	88	9,238	0	502	1,995
21	23	Other non-metallic mineral products.....	229,642	13,620	41,070	33,777	0	306	1,418
22	23.1	Glass and glass products.....	70,175	0	485	9,282	0	71	303
23	23.2-9	Refractory products, cut, shaped and finished stone.....	159,467	13,620	40,585	24,495	0	236	1,115
24	24	Basic metals.....	533,270	260,334	1,958	39,822	0	690	2,773
25	24.1-3	Basic iron and steel and ferro-alloys, other products of steel.....	477,140	248,913	1,264	32,480	0	386	1,562
26	24.4	Basic precious and other non-ferrous metals.....	32,763	3,183	596	5,427	0	211	840
27	24.5	Casting services of metal.....	23,367	8,238	98	1,915	0	93	371
28	25	Fabricated metal products, except machinery and equipment.....	52,851	341	1	17,336	0	877	3,998
29	26	Computer, electronic and optical products.....	11,567	0	0	5,431	0	501	2,070
30	27	Electrical equipment.....	10,747	490	0	7,516	0	839	3,617
31	28	Machinery and equipment n.e.c.....	49,742	201	0	19,026	0	1,535	6,826
32	29	Motor vehicles, trailers and semi-trailers.....	52,310	1,089	0	14,330	0	2,224	8,866
33	30	Other transport equipment.....	9,235	0	0	2,191	0	278	1,211
34	31-32	Furniture, other manufacture goods.....	11,965	0	0	5,358	0	272	1,161
35	33	Repair and installation services of machinery and equipment.....	2,091	0	0	1,913	0	375	1,494
36	D (35)	Electricity, gas, steam and air conditioning.....	4,249,927	1,300,233	1,501,031	116,662	0	712	3,320
37	35.1/3	Electricity, transmission and distribution services, steam.....	4,216,781	1,300,233	1,501,031	116,031	0	597	2,814
38	35.2	Manufactured gas.....	33,146	0	0	631	0	114	506
39	E	Water supply; sewerage, waste management and remediation services.....	67,539	0	0	58,743	0	3,386	53,313
40	36	Natural water; water treatment and supply services.....	582	0	0	553	0	98	435
41	37-39	Sewerage services; waste collection and materials recovery services.....	66,956	0	0	58,191	0	3,288	52,879
42	37	Sewerage services, sewerage sludge.....	6,067	0	0	5,726	0	922	4,792
43	38-39	Waste collection, treatment and disposal services.....	60,889	0	0	52,464	0	2,366	48,086
44	F	Constructions and construction works.....	108,599	267	7	92,866	0	7,107	57,113
45	41-42	Building and building construction works.....	53,048	120	3	45,849	0	3,704	27,978
46	43	Specialised construction works.....	55,551	146	4	47,017	0	3,403	29,134
47	G	Wholesale and retail trade services; repair services of motor vehicles.....	296,475	2,117	53	195,039	0	18,844	107,807
48	45	Wholesale and retail trade and repair services of motor vehicles.....	31,652	149	4	20,127	0	1,023	8,815
49	46	Wholesale trade services, except of motor vehicles and motorcycles.....	102,364	140	4	74,218	0	4,752	56,239
50	47	Retail trade services, except of motor vehicles and motorcycles.....	162,460	1,828	46	100,694	0	13,069	42,753
51	H	Transportation and storage services.....	413,222	0	0	381,452	0	5,155	340,064
52	49.1-2	Passenger rail transport services, freight rail transport services.....	23,690	0	0	22,059	0	30	21,636
53	49.3-5	Other passenger land transport services, transport service via pipeline.....	149,972	0	0	140,102	0	2,273	137,774
54	50	Water transport services.....	15,889	0	0	14,382	0	67	14,315
55	51	Air transport services.....	41,639	0	0	40,605	0	236	10,981
56	52	Warehousing and support services for transportation.....	134,512	0	0	121,096	0	1,101	115,345
57	53	Postal and courier services.....	47,519	0	0	43,208	0	1,448	40,013
58	I	Accommodation and food services.....	57,771	400	10	31,556	0	1,433	1,843
59	J	Information and communication services.....	69,480	0	0	51,218	0	4,224	34,026
60	K	Financial and insurance services.....	30,450	0	0	16,398	0	1,185	1,947
61	L	Real estate services.....	15,839	0	0	12,317	0	2,387	7,292
62	M	Professional, scientific and technical services.....	113,690	0	0	93,078	0	21,650	52,888
63	N	Administrative and support services.....	66,072	0	0	60,633	0	1,283	55,329
64	O	Public administration and defence services.....	103,432	1,481	1,456	69,396	0	10,154	18,319
65	P	Education services.....	76,193	242	6	24,177	0	268	1,247
66	Q	Human health and social work services.....	99,029	1,302	33	33,460	0	2,422	3,727
67	R-T	Other services.....	115,339	160	4	69,883	0	4,616	41,065
68		All homogeneous branches.....	8,081,786	1,609,758	1,570,779	1,952,920	0	102,611	899,200
69		Private households (domestic consumption).....	3,277,372	15,407	16,998	2,047,712	0	1,006,723	383,233
70		All homogeneous branches and private households (domestic concept).....	11,359,158	1,625,166	1,587,777	4,000,632	0	1,109,334	1,282,433

1) Statistical Classification of Products by Activity (CPA) of the European Union (2008 edition).

2) Including biogas and generation plants of other energy producers.

3) Substitute fuels, etc., which are not listed in the national energy balance sheets.

Table 3.5.2.2: Emission-relevant energy consumption by type of energy sources 2005

terajoules

Mineral oil				Gases	Renewable energies and other non-renewable energy sources					Electricity	Nuclear energy	Remote heating	Other fossil sources ²⁾	No.
Air fuel	Light fuel oil	Heavy fuel oil	Other mineral oil products		Together	Water and wind power, solar energy plant and other	biomass	Renewable energies	non-renewable waste, waste heat, etc.					
0	25,874	0	2,403	10,932	5,338	0	5,338	0	0	0	0	0	30,625	1
0	25,874	0	2,403	10,932	5,304	0	5,304	0	0	0	0	0	30,625	2
0	0	0	0	0	33	0	33	0	0	0	0	0	0	3
0	0	0	0	0	1	0	1	0	0	0	0	0	0	4
0	2,176	565	1,412	20,004	203	0	203	0	0	0	0	0	0	5
0	287	13	0	884	25	0	25	0	0	0	0	0	0	6
0	38	0	0	14,238	30	0	30	0	0	0	0	0	0	7
0	1,851	552	1,412	4,881	149	0	149	0	0	0	0	0	0	8
0	91,532	128,006	256,387	893,771	198,761	0	91,202	0	107,559	0	0	0	21,316	9
0	21,392	9,163	1,377	101,557	3,438	0	1,977	0	1,460	0	0	0	0	10
0	5,748	480	185	18,033	63	0	63	0	0	0	0	0	0	11
0	1,541	1,001	178	12,346	30,642	0	30,642	0	0	0	0	0	0	12
0	2,652	2,478	457	83,703	107,485	0	27,747	0	79,738	0	0	0	0	13
0	1,956	0	47	10,339	53	0	53	0	0	0	0	0	0	14
0	1,433	61,603	221,351	39,886	364	0	135	0	229	0	0	0	0	15
0	0	0	0	24,369	1	0	1	0	0	0	0	0	0	16
0	1,433	61,603	221,351	15,517	363	0	134	0	229	0	0	0	0	17
0	4,449	15,485	3,728	160,473	13,930	0	670	0	13,260	0	0	0	0	18
0	1,113	0	5,998	8,990	2,003	0	503	0	1,500	0	0	0	0	19
0	5,426	314	1,001	20,187	2,742	0	1,924	0	818	0	0	0	0	20
0	8,902	11,370	11,781	86,615	33,244	0	23,110	0	10,134	0	0	0	21,316	21
0	630	5,949	2,329	59,695	712	0	710	0	2	0	0	0	0	22
0	8,272	5,421	9,451	26,920	32,531	0	22,399	0	10,132	0	0	0	21,316	23
0	3,418	25,653	7,288	230,446	709	0	510	0	199	0	0	0	0	24
0	933	24,540	5,059	194,209	274	0	251	0	22	0	0	0	0	25
0	1,414	1,032	1,930	23,145	411	0	234	0	177	0	0	0	0	26
0	1,070	81	299	13,092	24	0	24	0	0	0	0	0	0	27
0	10,341	74	2,045	34,738	434	0	397	0	37	0	0	0	0	28
0	2,859	0	1	5,995	141	0	141	0	0	0	0	0	0	29
0	3,018	40	2	2,501	240	0	240	0	0	0	0	0	0	30
0	9,970	189	506	29,939	576	0	574	0	2	0	0	0	0	31
0	2,872	116	252	35,775	1,116	0	1,106	0	10	0	0	0	0	32
0	701	0	1	6,966	78	0	78	0	0	0	0	0	0	33
0	3,697	40	188	5,202	1,405	0	1,233	0	172	0	0	0	0	34
0	43	0	1	79	99	0	99	0	0	0	0	0	0	35
0	20,242	37,003	55,385	883,723	325,196	0	221,509	0	103,686	0	0	0	123,082	36
0	20,232	37,003	55,384	851,232	325,172	0	221,486	0	103,686	0	0	0	123,082	37
0	10	0	0	32,491	23	0	23	0	0	0	0	0	0	38
0	1,479	284	280	1,136	7,660	0	7,660	0	0	0	0	0	0	39
0	20	0	0	10	19	0	19	0	0	0	0	0	0	40
0	1,459	284	280	1,125	7,640	0	7,640	0	0	0	0	0	0	41
0	10	0	2	13	328	0	328	0	0	0	0	0	0	42
0	1,449	284	278	1,113	7,312	0	7,312	0	0	0	0	0	0	43
0	21,576	0	7,070	13,280	2,179	0	2,179	0	0	0	0	0	0	44
0	9,926	0	4,242	5,986	1,090	0	1,090	0	0	0	0	0	0	45
0	11,651	0	2,829	7,295	1,089	0	1,089	0	0	0	0	0	0	46
0	65,241	0	3,148	91,694	7,572	0	7,572	0	0	0	0	0	0	47
0	10,286	0	2	10,742	630	0	630	0	0	0	0	0	0	48
0	13,217	0	10	23,281	4,721	0	4,721	0	0	0	0	0	0	49
0	41,737	0	3,135	57,671	2,221	0	2,221	0	0	0	0	0	0	50
29,368	6,855	0	11	8,223	23,546	0	23,546	0	0	0	0	0	0	51
0	393	0	0	370	1,261	0	1,261	0	0	0	0	0	0	52
0	50	0	5	546	9,323	0	9,323	0	0	0	0	0	0	53
0	0	0	0	0	1,507	0	1,507	0	0	0	0	0	0	54
29,368	20	0	0	20	1,014	0	1,014	0	0	0	0	0	0	55
0	4,648	0	2	5,593	7,824	0	7,824	0	0	0	0	0	0	56
0	1,744	0	3	1,694	2,618	0	2,618	0	0	0	0	0	0	57
0	24,322	0	3,958	25,681	124	0	124	0	0	0	0	0	0	58
0	12,959	0	9	15,734	2,528	0	2,528	0	0	0	0	0	0	59
0	13,263	0	3	13,902	151	0	151	0	0	0	0	0	0	60
0	2,633	0	5	3,066	456	0	456	0	0	0	0	0	0	61
0	17,079	3	1,459	17,710	2,902	0	2,902	0	0	0	0	0	0	62
0	4,019	0	3	5,013	426	0	426	0	0	0	0	0	0	63
2,200	35,298	29	3,397	30,636	463	0	463	0	0	0	0	0	0	64
0	22,651	11	1	51,675	93	0	93	0	0	0	0	0	0	65
0	27,302	5	5	64,010	224	0	224	0	0	0	0	0	0	66
0	24,191	2	10	42,869	2,424	0	2,424	0	0	0	0	0	0	67
31,568	418,690	165,907	334,945	2,193,060	580,246	0	369,000	0	211,246	0	0	0	175,023	68
0	628,974	0	28,781	987,825	209,430	0	209,430	0	0	0	0	0	0	69
31,568	1,047,664	165,907	363,726	3,180,885	789,675	0	578,429	0	211,246	0	0	0	175,023	70

Table 3.5.2.3: Emission-relevant energy consumption by type of energy sources 2012

terajoules

No.	CPA ¹⁾	Homogeneous branches	Total	Hard coal and hard coal products	Lignite and lignite products	Mineral oil			
						Together	Crude oil	Motor gasoline	Gas-diesel oil
1	A	Products of agriculture, forestry and fishing.....	190,531	100	0	114,466	0	2,298	78,354
2	01	Products of agriculture, hunting and related services.....	187,227	100	0	111,206	0	2,220	75,174
3	02	Products of forestry, logging and related services.....	2,294	0	0	2,255	0	70	2,183
4	03	Fish and other fishing products; aquaculture products.....	1,010	0	0	1,006	0	8	997
5	B	Mining and quarrying.....	29,601	179	12,252	4,106	0	79	2,407
6	05	Coal and lignite.....	11,495	63	10,152	757	0	15	596
7	06	Crude petroleum and natural gas.....	8,597	0	0	548	0	17	525
8	07-09	Metal ores, other mining and quarrying products.....	9,509	116	2,100	2,801	0	46	1,287
9	C	Manufactured products.....	1,954,342	328,245	69,985	393,895	0	7,939	59,872
10	10-12	Food products, beverages, tobacco products.....	146,922	4,145	5,562	21,711	0	809	5,894
11	13-15	Textiles, wearing apparel, leather and related products.....	14,970	0	0	2,760	0	110	800
12	16	Wood and products of wood and cork, except furniture.....	46,424	0	163	3,132	0	118	1,148
13	17	Paper and paper products.....	127,245	7,667	6,257	3,934	0	182	1,332
14	18	Printing and recording services.....	11,354	0	0	1,673	0	106	770
15	19	Coke and refined petroleum products.....	276,519	2,432	172	214,792	0	329	2,921
16	19.1	Coke oven products.....	23,021	0	0	48	0	6	42
17	19.2	Refined petroleum products.....	253,498	2,432	172	214,744	0	323	2,879
18	20	Chemicals and chemical products.....	310,980	7,012	8,511	27,648	0	610	4,456
19	21	Basic pharmaceutical products and pharmaceutical preparations.....	5,365	0	58	3,619	0	158	1,148
20	22	Rubber and plastic products.....	28,960	0	263	7,715	0	334	2,441
21	23	Other non-metallic mineral products.....	258,853	16,779	45,200	22,300	0	219	1,817
22	23.1	Glass and glass products.....	65,313	0	0	5,173	0	46	335
23	23.2-9	Refractory products, cut, shaped and finished stone.....	193,541	16,779	45,200	17,127	0	173	1,481
24	24	Basic metals.....	531,651	288,739	3,799	18,281	0	525	3,828
25	24.1-3	Basic iron and steel and ferro-alloys, other products of steel.....	474,270	277,507	3,439	9,986	0	276	2,020
26	24.4	Basic precious and other non-ferrous metals.....	29,402	799	360	4,313	0	179	1,301
27	24.5	Casting services of metal.....	27,979	10,433	0	3,982	0	69	507
28	25	Fabricated metal products, except machinery and equipment.....	52,253	647	0	14,406	0	608	4,706
29	26	Computer, electronic and optical products.....	10,006	0	0	3,931	0	312	2,278
30	27	Electrical equipment.....	12,370	251	0	5,781	0	458	3,376
31	28	Machinery and equipment n.e.c.....	45,333	86	0	18,712	0	1,053	8,024
32	29	Motor vehicles, trailers and semi-trailers.....	47,510	487	0	13,728	0	1,393	10,195
33	30	Other transport equipment.....	7,868	0	0	1,753	0	158	1,227
34	31-32	Furniture, other manufacture goods.....	13,805	0	0	5,222	0	228	1,711
35	33	Repair and installation services of machinery and equipment.....	5,954	0	0	2,796	0	230	1,799
36	D (35)	Electricity, gas, steam and air conditioning.....	4,330,388	1,143,695	1,536,047	71,712	0	675	5,318
37	35.1/3	Electricity, transmission and distribution services, steam.....	4,311,577	1,143,695	1,536,047	70,325	0	516	4,108
38	35.2	Manufactured gas.....	18,811	0	0	1,386	0	158	1,210
39	E	Water supply; sewerage, waste management and remediation services.....	66,695	0	0	52,576	0	2,391	49,239
40	36	Natural water; water treatment and supply services.....	941	0	0	875	0	48	766
41	37-39	Sewerage services; waste collection and materials recovery services.....	65,754	0	0	51,701	0	2,344	48,473
42	37	Sewerage services, sewerage sludge.....	5,775	0	0	5,445	0	596	4,824
43	38-39	Waste collection, treatment and disposal services.....	59,979	0	0	46,256	0	1,748	43,649
44	F	Constructions and construction works.....	105,055	0	0	87,954	0	3,386	65,090
45	41-42	Building and building construction works.....	38,651	0	0	33,315	0	1,475	23,883
46	43	Specialised construction works.....	66,403	0	0	54,639	0	1,911	41,208
47	G	Wholesale and retail trade services; repair services of motor vehicles.....	259,882	328	0	174,077	0	15,322	107,740
48	45	Wholesale and retail trade and repair services of motor vehicles.....	28,364	128	0	15,876	0	581	7,947
49	46	Wholesale trade services, except of motor vehicles and motorcycles.....	82,411	44	0	66,220	0	4,217	55,868
50	47	Retail trade services, except of motor vehicles and motorcycles.....	149,107	156	0	91,981	0	10,525	43,925
51	H	Transportation and storage services.....	422,658	0	0	382,882	0	3,740	348,818
52	49.1-2	Passenger rail transport services, freight rail transport services.....	20,698	0	0	18,842	0	21	18,709
53	49.3-5	Other passenger land transport services, transport service via pipeline.....	149,288	0	0	137,478	0	1,652	135,721
54	50	Water transport services.....	18,008	0	0	15,925	0	77	15,847
55	51	Air transport services.....	39,701	0	0	38,279	0	197	12,209
56	52	Warehousing and support services for transportation.....	149,826	0	0	131,845	0	810	127,520
57	53	Postal and courier services.....	45,137	0	0	40,513	0	984	38,814
58	I	Accommodation and food services.....	53,067	57	0	29,648	0	1,077	2,746
59	J	Information and communication services.....	49,488	0	0	32,340	0	2,396	24,490
60	K	Financial and insurance services.....	24,774	0	0	9,562	0	747	3,420
61	L	Real estate services.....	17,612	0	0	13,723	0	1,869	10,661
62	M	Professional, scientific and technical services.....	115,501	0	0	90,405	0	13,468	66,733
63	N	Administrative and support services.....	68,955	0	0	62,089	0	753	58,328
64	O	Public administration and defence services.....	93,998	759	1,346	47,224	0	4,802	20,247
65	P	Education services.....	62,554	262	0	17,582	0	258	1,499
66	Q	Human health and social work services.....	102,076	870	0	29,714	0	3,026	7,157
67	R-T	Other services.....	86,206	178	0	57,269	0	3,211	40,800
68		All homogeneous branches.....	8,033,385	1,474,672	1,619,630	1,671,223	0	67,436	952,920
69		Private households (domestic consumption).....	3,044,460	12,000	19,079	1,800,748	0	797,670	480,175
70		All homogeneous branches and private households (domestic concept).....	11,077,845	1,486,672	1,638,709	3,471,971	0	865,106	1,433,095

1) Statistical Classification of Products by Activity (CPA) of the European Union (2008 edition).

2) Including biogas and generation plants of other energy producers.

3) Substitute fuels, etc., which are not listed in the national energy balance sheets.

Table 3.5.2.3: Emission-relevant energy consumption by type of energy sources 2012

terajoules

Mineral oil				Gases	Renewable energies and other non-renewable energy sources					Electricity	Nuclear energy	Remote heating	Other fossil sources ²⁾	No.
Air fuel	Light fuel oil	Heavy fuel oil	Other mineral oil products		Together	Water and wind power, solar energy plant and other	biomass	Renewable energies	non-renewable waste, waste heat, etc.					
0	32,126	0	1,688	6,069	39,271	0	39,271	0	0	0	0	0	30,625	1
0	32,126	0	1,685	6,068	39,228	0	39,228	0	0	0	0	0	30,625	2
0	0	0	2	1	39	0	39	0	0	0	0	0	0	3
0	0	0	0	0	5	0	5	0	0	0	0	0	0	4
0	965	51	605	12,349	714	0	238	0	476	0	0	0	0	5
0	126	20	0	1	521	0	45	0	476	0	0	0	0	6
0	6	0	0	7,999	50	0	50	0	0	0	0	0	0	7
0	833	31	604	4,348	143	0	143	0	0	0	0	0	0	8
0	59,234	54,160	212,690	962,906	175,017	0	92,914	0	82,103	0	0	0	24,295	9
0	12,617	1,572	819	111,909	3,595	0	3,116	0	479	0	0	0	0	10
0	1,564	283	3	12,146	63	0	63	0	0	0	0	0	0	11
0	1,219	585	62	7,320	35,809	0	35,809	0	0	0	0	0	0	12
0	1,751	333	335	78,345	31,043	0	30,151	0	892	0	0	0	0	13
0	795	0	3	9,623	58	0	58	0	0	0	0	0	0	14
0	1,554	33,056	176,932	58,553	570	0	543	0	27	0	0	0	0	15
0	0	0	0	22,970	3	0	3	0	0	0	0	0	0	16
0	1,554	33,056	176,932	35,583	566	0	539	0	27	0	0	0	0	17
0	3,249	13,287	6,046	220,617	47,192	0	1,844	0	45,348	0	0	0	0	18
0	574	0	1,738	2	1,686	0	1,032	0	654	0	0	0	0	19
0	3,542	110	1,289	19,994	988	0	930	0	58	0	0	0	0	20
0	6,077	3,925	10,262	102,784	47,496	0	13,200	0	34,296	0	0	0	24,295	21
0	787	2,835	1,170	60,092	47	0	26	0	21	0	0	0	0	22
0	5,290	1,091	9,092	42,692	47,448	0	13,173	0	34,275	0	0	0	24,295	23
0	1,708	964	11,256	220,256	576	0	308	0	268	0	0	0	0	24
0	418	333	6,939	183,187	151	0	151	0	0	0	0	0	0	25
0	576	631	1,626	23,542	388	0	120	0	268	0	0	0	0	26
0	714	0	2,692	13,526	38	0	38	0	0	0	0	0	0	27
0	6,863	0	2,230	35,958	1,242	0	1,225	0	17	0	0	0	0	28
0	1,194	0	146	5,905	170	0	170	0	0	0	0	0	0	29
0	1,836	0	111	6,086	251	0	251	0	0	0	0	0	0	30
0	9,010	44	580	25,518	1,018	0	1,011	0	7	0	0	0	0	31
0	1,889	0	250	32,020	1,276	0	1,275	0	1	0	0	0	0	32
0	364	0	4	6,026	88	0	88	0	0	0	0	0	0	33
0	2,781	0	502	6,823	1,761	0	1,705	0	56	0	0	0	0	34
0	646	0	121	3,021	137	0	137	0	0	0	0	0	0	35
0	13,780	24,993	26,947	821,792	597,959	0	450,940	0	147,019	0	0	0	159,183	36
0	13,766	24,993	26,942	806,524	595,802	0	448,783	0	147,019	0	0	0	159,183	37
0	14	0	4	15,268	2,157	0	2,157	0	0	0	0	0	0	38
0	554	323	68	515	13,605	0	12,042	0	1,563	0	0	0	0	39
0	59	0	1	10	56	0	56	0	0	0	0	0	0	40
0	495	323	66	504	13,548	0	11,985	0	1,563	0	0	0	0	41
0	9	0	16	16	314	0	314	0	0	0	0	0	0	42
0	486	323	50	488	13,235	0	11,672	0	1,563	0	0	0	0	43
0	14,518	0	4,960	14,324	2,777	0	2,777	0	0	0	0	0	0	44
0	4,994	0	2,963	4,450	887	0	887	0	0	0	0	0	0	45
0	9,524	0	1,996	9,874	1,890	0	1,890	0	0	0	0	0	0	46
0	48,439	0	2,575	76,730	8,748	0	8,748	0	0	0	0	0	0	47
0	7,332	0	16	11,676	684	0	684	0	0	0	0	0	0	48
0	6,019	0	116	10,544	5,604	0	5,604	0	0	0	0	0	0	49
0	35,088	0	2,443	54,510	2,460	0	2,460	0	0	0	0	0	0	50
25,733	4,491	0	100	8,768	31,008	0	31,008	0	0	0	0	0	0	51
0	112	0	1	310	1,545	0	1,545	0	0	0	0	0	0	52
0	59	0	45	117	11,693	0	11,693	0	0	0	0	0	0	53
0	0	0	2	1	2,082	0	2,082	0	0	0	0	0	0	54
25,733	138	0	2	21	1,401	0	1,401	0	0	0	0	0	0	55
0	3,494	0	22	6,398	11,582	0	11,582	0	0	0	0	0	0	56
0	688	0	27	1,920	2,704	0	2,704	0	0	0	0	0	0	57
0	23,053	0	2,771	23,171	191	0	191	0	0	0	0	0	0	58
0	5,387	0	66	15,035	2,114	0	2,114	0	0	0	0	0	0	59
0	5,375	0	21	14,958	255	0	255	0	0	0	0	0	0	60
0	1,141	0	51	3,189	700	0	700	0	0	0	0	0	0	61
0	8,853	1	1,349	21,140	3,957	0	3,957	0	0	0	0	0	0	62
0	2,987	0	21	6,468	399	0	399	0	0	0	0	0	0	63
1,171	18,586	14	2,404	33,881	10,789	0	10,789	0	0	0	0	0	0	64
0	15,814	5	7	41,103	3,607	0	3,607	0	0	0	0	0	0	65
0	19,445	2	83	65,362	6,129	0	6,129	0	0	0	0	0	0	66
0	13,169	1	88	20,984	7,776	0	7,776	0	0	0	0	0	0	67
26,904	287,918	79,551	256,493	2,148,743	905,014	0	673,853	0	231,161	0	0	0	214,103	68
0	477,633	0	45,270	924,740	287,894	0	287,894	0	0	0	0	0	0	69
26,904	765,551	79,551	301,763	3,073,483	1,192,908	0	961,747	0	231,161	0	0	0	214,103	70

Table 3.5.3: Emission relevant energy consumption of industries and households
terajoules

No.	WZ 2008 Code ¹⁾	Industries and private households ^{2) 3)}	1995	2000	2005	2010	2011	2012
1	A	Agriculture, forestry and fishing.....	202,928	119,254	152,945	384,939	425,624	337,652
2	01	Crop and animal production, hunting and related services.....	199,494	116,431	149,929	381,411	422,275	334,347
3	02	Forestry and logging.....	2,388	1,838	2,051	2,455	2,325	2,294
4	03	Fishing and aquaculture.....	1,046	984	965	1,074	1,023	1,010
5	B	Mining and quarrying.....	355,649	179,944	181,538	130,662	124,505	61,324
6	05	Mining of coal and lignite.....	304,456	142,305	152,546	109,286	105,098	43,218
7	06	Extraction of crude petroleum and natural gas.....	19,858	22,033	14,833	8,991	8,965	8,597
8	07-09	Mining of metal ores, other mining and quarrying.....	31,336	15,606	14,159	12,384	10,443	9,509
9	C	Manufacturing.....	2,455,510	2,362,006	2,272,283	2,349,761	2,340,620	2,223,941
10	10-12	Manufacture of food products, beverages and tobacco products.....	182,175	176,610	178,661	189,110	184,015	182,956
11	13-15	Manufacture of textiles, wearing apparel, leather.....	43,160	31,911	26,716	16,413	15,763	15,273
12	16	Manufacture of wood and products of wood and cork.....	24,087	25,665	47,202	65,608	70,937	46,424
13	17	Manufacture of paper and paper products.....	154,672	143,626	263,472	192,900	171,626	158,359
14	18	Printing and reproduction of recorded media.....	9,968	13,491	13,406	11,455	10,343	11,354
15	19	Manufacture of coke and refined petroleum products.....	376,116	389,228	379,197	338,210	341,786	323,637
16	19.1	Manufacture of coke oven products.....	64,005	50,385	25,764	26,283	24,729	23,021
17	19.2	Manufacture of refined petroleum products.....	312,111	338,842	353,433	311,927	317,057	300,615
18	20	Manufacture of chemicals and chemical products ³⁾	422,355	382,096	307,755	442,963	454,119	422,839
19	21	Manufacture of basic pharmaceutical products.....	31,776	42,442	19,256	6,791	5,701	5,365
20	22	Manufacture of rubber and plastic products.....	34,634	31,194	32,288	34,588	28,785	28,960
21	23	Manufacture of other non-metallic mineral products.....	289,825	263,095	210,796	235,711	245,841	236,101
22	23.1	Manufacture of glass and glass products.....	86,181	80,463	70,175	69,357	71,200	65,313
23	23.2	Manufacture of refractory products, cutting and finishing of stone.....	203,645	182,632	140,621	166,354	174,640	170,788
24	24	Manufacture of basic metals.....	644,276	657,873	584,091	607,920	609,998	591,761
25	24.1-3	Iron and steel.....	588,805	595,502	527,962	546,830	550,390	534,380
26	24.4	Manufacture of basic precious and non-ferrous metals.....	35,660	38,610	32,763	32,747	30,723	29,402
27	24.5	Casting of metals.....	19,811	23,761	23,367	28,342	28,884	27,979
28	25	Manufacture of fabricated metal products.....	58,919	55,349	52,851	55,773	53,730	52,253
29	26	Manufacture of computer, electronic and optical products.....	19,423	14,872	11,567	9,235	9,047	10,006
30	27	Manufacture of electrical equipment.....	21,509	11,889	10,747	12,693	13,399	12,370
31	28	Manufacture of machinery and equipment n.e.c.....	62,241	47,404	50,153	48,001	44,074	45,601
32	29	Manufacture of motor vehicles, trailers and semi-trailers.....	52,977	52,471	60,835	53,441	54,655	53,058
33	30	Manufacture of other transport equipment.....	12,926	9,733	9,235	9,359	7,596	7,868
34	31-32	Manufacture of furniture, other manufacturing.....	12,160	10,700	11,965	13,491	13,498	13,805
35	33	Repair and installation of machinery and equipment.....	2,310	2,355	2,091	6,098	5,708	5,954
36	D (35)	Electricity, gas, steam and air conditioning supply.....	3,089,512	3,239,366	3,666,831	3,639,718	3,567,030	3,667,704
37	35.1/.3	Electric power generation, transmission and distribution, steam.....	3,089,064	3,238,907	3,633,685	3,613,151	3,546,674	3,648,893
38	35.2	Manufacture of gas; distribution of gaseous fuels through mains.....	448	459	33,146	26,567	20,356	18,811
39	E	Water supply; sewerage, waste management and remediation activities.....	125,000	101,345	67,539	77,057	70,898	66,695
40	36	Water collection, treatment and supply.....	386	482	582	1,152	985	941
41	37-39	Sewerage, waste collection, treatment and disposal activities.....	124,614	100,863	66,956	75,905	69,912	65,754
42	37	Sewerage.....	8,738	9,156	6,067	6,265	6,050	5,775
43	38-39	Waste collection, treatment and disposal activities.....	115,876	91,707	60,890	69,639	63,862	59,979
44	F	Construction.....	159,334	126,414	108,599	101,910	103,669	105,055
45	41-42	Construction of buildings, civil engineering.....	83,770	62,648	53,048	37,675	38,047	38,651
46	43	Specialised construction activities.....	75,564	63,766	55,551	64,235	65,622	66,403
47	G	Wholesale and retail trade; repair of motor vehicles and motorcycles.....	349,350	331,591	296,475	271,048	262,174	259,882
48	45	Wholesale and retail trade and repair of motor vehicles.....	39,992	41,749	31,652	28,860	28,206	28,364
49	46	Wholesale trade; except of motor vehicles and motorcycles.....	118,053	114,669	102,364	83,992	83,230	82,411
50	47	Retail trade; except of motor vehicles and motorcycles.....	191,305	175,173	162,460	158,197	150,737	149,107
51	H	Transportation and storage.....	388,060	402,978	413,257	431,240	430,769	422,797
52	49.1-2	Passenger rail transport, interurban, freight rail transport.....	74,802	32,121	23,725	22,205	22,244	20,837
53	49.3-5	Other passenger land transport, transport via pipeline.....	102,643	137,835	149,972	152,667	152,282	149,288
54	50	Water transport.....	21,829	14,413	15,889	18,275	18,535	18,008
55	51	Air transport.....	35,910	41,389	41,639	41,449	39,304	39,701
56	52	Warehousing and support activities for transportation.....	111,850	129,759	134,512	152,103	153,073	149,826
57	53	Postal and courier activities.....	41,026	47,461	47,519	44,541	45,332	45,137
58	I	Accommodation and food service activities.....	64,506	62,742	57,771	57,381	55,063	53,067
59	J	Information and communication.....	56,495	65,226	69,480	53,200	50,756	49,488
60	K	Financial and insurance activities.....	36,013	31,850	30,450	28,763	25,041	24,774
61	L	Real estate activities.....	11,522	12,600	15,839	17,945	17,342	17,612
62	M	Professional, scientific and technical activities.....	97,622	114,441	113,690	123,456	117,890	115,501
63	N	Administrative and support service activities.....	15,474	75,475	66,072	72,683	72,253	68,955
64	O	Public administration and defence; compulsory social security.....	145,646	114,750	103,432	104,848	95,241	93,998
65	P	Education.....	85,068	80,469	76,193	68,786	61,764	62,554
66	Q	Human health and social work activities.....	99,687	101,075	99,029	110,869	100,174	102,076
67	R-t	Other service activities.....	143,692	145,097	115,339	92,830	83,890	86,206
68		All industries.....	7,881,069	7,666,626	7,906,763	8,117,096	8,004,702	7,819,283
69		Private households (domestic consumption).....	3,340,793	3,296,368	3,277,372	3,265,350	2,989,293	3,044,460
70		All industries and private households (residents concept).....	11,221,862	10,962,994	11,184,135	11,382,447	10,993,995	10,863,742

1) Classification of economic activities, 2008 edition.

2) Including biogas and generation plants of other energy producers.

3) Includes secondary fuels not contained in the national energy balance 1995 to 2008.