

# Economy and Use of Environmental Resources

## Tables on Environmental-Economic Accounting Part 2: Energy



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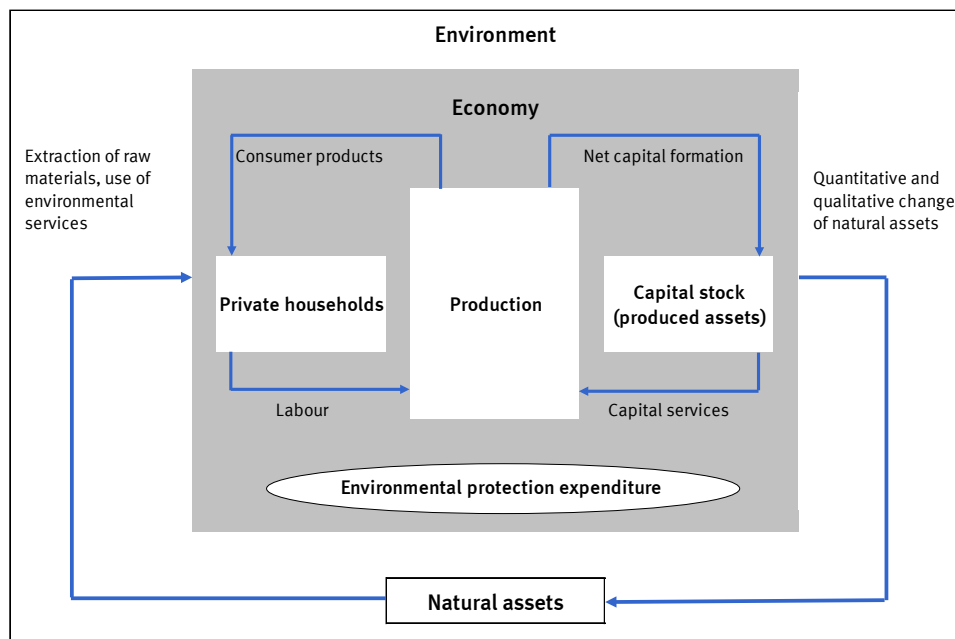
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# 1 Environmental-Economic Accounting of the Federal Statistical Office

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 economy<sup>1</sup> 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

<sup>1</sup> Both are shown in the simplified form in the diagram.

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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.

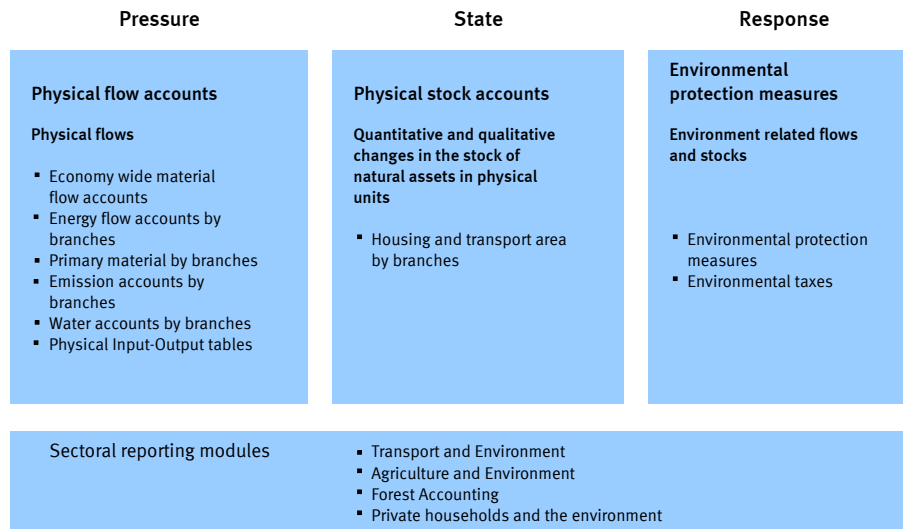
Environmental economic accounts and national accounts describe two dimensions of sustainable development – economy and environment – and their interrelationship. Therefore they provide an important and useful data base for political discussions concerning sustainability.

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

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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.

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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)"<sup>2</sup>. In Germany substantial sections of the environmental economic accounts are drawn up based on these conceptual proposals in the SEEA.

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<sup>2</sup> 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



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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

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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

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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	<b>All homogeneous branches</b>	<b>All homogeneous branches</b>	

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### 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

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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

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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

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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	<b>All industries</b>	<b>All industries</b>	

### 3 Abbreviations and symbols

#### Abbreviations – general

NH <sub>3</sub>	=	ammonia
CH <sub>4</sub>	=	methane
CO <sub>2</sub>	=	carbon dioxide
NO <sub>2</sub>	=	nitrogen dioxide
NO <sub>x</sub>	=	nitric oxides (= nitrogen dioxide + nitrogen monoxide)
N <sub>2</sub> O	=	nitrous oxide (= laughing gas)
NMVOG	=	volatile organic compounds (not including methane)
SO <sub>2</sub>	=	sulphur dioxide
SF <sub>6</sub>	=	sulphur hexafluoride
PFCs	=	perfluorocarbons
HFCs	=	hydrofluorocarbons
H <sub>2</sub> 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 <sup>3</sup> J
MJ	=	megajoules	1 MJ	= 10 <sup>6</sup> J
GJ	=	gigajoules	1 GJ	= 10 <sup>9</sup> J
TJ	=	terajoules	1 TJ	= 10 <sup>12</sup> J



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PJ	=	petajoule	1 PJ	=	10 <sup>15</sup> J
Kg	=	kilogram			
t	=	tonnes			
mn	=	million			
bn	=	billion			
MWh	=	megawatt hour			
h	=	hour			
m <sup>3</sup>	=	cubic metre			
%	=	per cent			
m <sup>2</sup>	=	square metre			
km <sup>2</sup>	=	square kilometre			
ha	=	hectare	1 ha	=	10 000 m <sup>2</sup>
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 sources<sup>1</sup>. 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 2013.

A detailed description of the methods of the energy accounts, their content and application is available in the web under: [www.destatis.de](http://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 differences 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 2013 – average. Thereby correction factors are used that are based on daily temperature figures and on information on the share of energy consumption needed for heating. In addition purchases of heating oil by private households for building 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](http://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 2011 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 includes in addition to the national energy balance further emission-relevant energy sources, which are included in the national emission inventory of the Federal Environmental Agency.

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**).

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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 Kraftfahrtbundesamt (Federal Motor Transport Authority), fuel calculations by the German Institute for Economic Research – DIW Berlin.

## Glossary

<b>Energy balances</b>	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: <a href="http://www.ag-energiebilanzen.de">www.ag-energiebilanzen.de</a>
<b>Energy consumption</b>	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.
<b>Energy productivity</b>	Energy productivity expresses how much gross domestic product (in euros adjusted for price changes) is generated per unit of primary energy used (in petajoules).
<b>Energy sources</b>	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.
<b>Final energy consumption</b>	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.
<b>Final use of goods</b>	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.
<b>Homogeneous branches</b>	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.
<b>Intensity of (primary) energy consumption</b>	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.
<b>Primary energy consumption</b>	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.
<b>Renewable energy sources</b>	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.
<b>Resident concept</b>	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.
<b>Trade, commerce and services</b>	The "trade, commerce and service" sector is one of the final energy sectors of the national 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 the elimination of the effect of ambient temperature on energy consumption, e. g. energy consumption of private households for room heating. In the EEA data on the degree day figures ratio according to the VDI regulation 3807 is used. The daily degree day 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<sup>\*)</sup>

No.	Specification	Unit	2000	2005	2010	2011	2012	2013
<b>Energy</b>								
1	<b>Production of primary domestic energy</b> .....	petajoule	3,793	4,099	4,155	4,246	4,124	4,109
2	Hard coal.....	petajoule	1,012	756	387	361	324	229
3	Brown coal (lignite).....	petajoule	1,528	1,611	1,535	1,595	1,676	1,660
4	Crude oil.....	petajoule	131	153	107	112	111	112
5	Gases.....	petajoule	649	598	462	459	404	389
	including:							
6	Natural gas, petroleum gas.....	petajoule	638	588	452	447	391	374
7	Renewable energies 1).....	petajoule	417	769	1,421	1,463	1,378	1,510
8	Other energy sources 2).....	petajoule	56	211	244	255	231	208
9	<b>Imports</b> .....	petajoule	11,904	12,748	11,876	11,205	11,208	11,766
	including							
10	Crude oil.....	petajoule	4,430	4,824	3,963	3,854	3,977	3,860
11	Natural gas.....	petajoule	2,676	3,311	3,307	3,154	3,110	3,440
12	Hard coal.....	petajoule	740	994	1,204	1,281	1,313	1,509
13	<b>Exports</b> .....	petajoule	1,442	2,148	1,837	1,672	1,778	1,985
14	<b>Primary domestic energy consumption</b> .....	petajoule	14,401	14,558	14,217	13,599	13,447	13,822
15	<b>Final energy consumption</b> .....	petajoule	9,235	9,160	9,310	8,881	8,919	9,179
16	Manufacturing.....	petajoule	2,421	2,514	2,592	2,634	2,587	2,551
17	Small consumers (GHD).....	petajoule	1,478	1,469	1,483	1,346	1,345	1,460
18	Road traffic.....	petajoule	2,358	2,150	2,109	2,133	2,117	2,167
19	Rail-, airtraffic and navy.....	petajoule	393	436	450	435	441	444
20	Private households.....	petajoule	2,584	2,591	2,676	2,333	2,427	2,556
	including:							
21	Electricity.....	petajoule	1,780	1,864	1,899	1,876	1,884	1,884
22	Natural gas.....	petajoule	2,204	2,131	2,247	2,038	2,081	2,184
23	Light fuel oil.....	petajoule	1,149	1,025	844	701	750	806
24	<b>Non-energetic consumption</b> .....	petajoule	1,068	1,114	1,034	1,027	976	972
25	<b>Transformation input</b> .....	petajoule	11,617	12,357	11,458	11,066	10,858	10,796
26	<b>Electricity power generation</b> .....	petajoule	5,335	5,537	5,511	5,186	5,061	5,119
27	Water and wind power, solar energy plant and biomass.....	petajoule	110	281	576	642	734	643
28	<b>Transformation output</b> .....	petajoule	8,307	8,959	8,167	8,002	8,000	7,885
29	including: electricity.....	petajoule	2,071	2,234	2,261	2,192	2,267	2,299
30	from renewable energies 3).....	petajoule	130	225	377	445	516	549
31	<b>Transformation losses</b> .....	petajoule	3,310	3,398	3,291	3,064	2,858	2,911
32	<b>Internal consumption of transformation sectors</b> .....	petajoule	565	611	546	557	523	533
33	<b>Supply of domestic energy 4)</b> .....	petajoule	22,707	23,518	22,384	21,601	21,447	21,707
<b>Socio-economic data</b>								
34	Gross domestic product (GDP, price-adjusted).....	2010 = 100	97	100	106	110	111	111
35	Inhabitants.....	million	82.2	82.5	81.8	81.8	81.9	82.1
36	Gross value added, Manufacturing (price-adjusted).....	2010 = 100	95	100	106	115	113	114
37	Imports (cif, current prices).....	EUR bn	646.8	751.9	956.0	1,079.3	1,099.2	1,113.7
38	Energy sources.....	EUR bn	54.6	86.2	140.2	183.8	213.6	.
39	Crude oil, natural gas.....	EUR bn	33.4	53.3	65.3	86.0	100.9	.
<b>Energy intensity</b>								
40	Primary energy consumption / GDP (price-adjusted).....	2005 = 100	102	100	92	85	83	86
41	Final energy consumption / GDP (price-adjusted).....	2005 = 100	104	100	96	88	88	90
42	Energy intensity - manufacturing.....	2005 = 100	102	100	97	91	91	89
<b>Energy consumption per inhabitants</b>								
43	Primary energy consumption.....	MJ/inh.	175.2	176.5	173.9	166.3	164.2	168.3
44	Final energy consumption households.....	MJ/inh.	31.4	31.4	32.7	28.5	29.6	31.1
45	Final energy consumption households.....	kwh/inh.	11,319	11,310	11,782	10,272	10,668	11,207
<b>Energy efficiency</b>								
46	Final energy consumption / primary energy consumption.....	%	64.1	62.9	65.5	65.3	66.3	66.4
47	Efficiency heat power stations.....	%	39.5	41.3	42.0	42.2	42.0	41.8
<b>Dependency on imports</b>								
48	Imports / primary energy consumption 5).....	%	72.0	72.1	69.8	69.3	69.3	70.1
49	Imports / energy consumption.....	%	52.4	54.2	53.1	51.9	52.3	54.2

\*) 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<sup>\*)</sup>

No.	Specification	Unit	2000	2005	2010	2011	2012	2013	
			<b>percentage of total consumption</b>						
1	<b>Production of primary domestic energy.....</b>	%	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	
2	Hard coal.....	%	26.7	18.4	9.3	8.5	7.9	5.6	
3	Brown coal (lignite).....	%	40.3	39.3	36.9	37.6	40.6	40.4	
4	Crude oil.....	%	3.5	3.7	2.6	2.6	2.7	2.7	
5	Gases.....	%	17.1	14.6	11.1	10.8	9.8	9.5	
	including:								
6	Natural gas, petroleum gas.....	%	16.8	14.3	10.9	10.5	9.5	9.1	
7	Renewable energies 1).....	%	11.0	18.8	34.2	34.5	33.4	36.8	
8	Other energy sources 2).....	%	1.5	5.2	5.9	6.0	5.6	5.1	
			<b>percentage of total imports</b>						
9	<b>Imports.....</b>	%	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	
	including								
10	Crude oil.....	%	37.2	37.8	33.4	34.4	35.5	32.8	
11	Natural gas.....	%	22.5	26.0	27.8	28.1	27.7	29.2	
12	Hard coal.....	%	6.2	7.8	10.1	11.4	11.7	12.8	
13	<b>Primary domestic energy consumption.....</b>	<b>2005 = 100</b>	<b>99</b>	<b>100</b>	<b>98</b>	<b>93</b>	<b>92</b>	<b>95</b>	
			<b>percentage of total final consumption</b>						
14	<b>Final energy consumption.....</b>	%	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	
15	Manufacturing.....	%	26.2	27.4	27.8	29.7	29.0	27.8	
16	Small consumers (GHD).....	%	16.0	16.0	15.9	15.2	15.1	15.9	
17	Road traffic.....	%	25.5	23.5	22.7	24.0	23.7	23.6	
18	Rail-, airtraffic and navy.....	%	4.3	4.8	4.8	4.9	4.9	4.8	
19	Private households.....	%	28.0	28.3	28.7	26.3	27.2	27.8	
	including:								
20	Electricity.....	%	19.3	20.3	20.4	21.1	21.1	20.5	
21	Natural gas.....	%	23.9	23.3	24.1	22.9	23.3	23.8	
22	Light fuel oil.....	%	12.4	11.2	9.1	7.9	8.4	8.8	
			<b>transformation input in percentage of total transformation input electricity power generation</b>						
23	<b>Electricity power generation.....</b>	%	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	
24	Water and wind power, solar energy plant and biomass.....	%	2.1	5.1	10.5	12.4	14.5	12.6	
			<b>percentage of total transformation output</b>						
25	<b>Transformation output.....</b>	%	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	
26	including: electricity.....	%	24.9	24.9	27.7	27.4	28.3	29.2	
27	from renewable energies 3).....	%	6.2	10.2	17.0	20.4	23.6	25.4	
28	<b>Transformation losses.....</b>	%	<b>39.8</b>	<b>37.9</b>	<b>40.3</b>	<b>38.3</b>	<b>35.7</b>	<b>36.9</b>	
29	<b>Supply of domestic energy 4).....</b>	<b>2005 = 100</b>	<b>97</b>	<b>100</b>	<b>95</b>	<b>92</b>	<b>91</b>	<b>92</b>	
	<b>Socio-economic data</b>								
30	Gross domestic product (GDP, price-adjusted).....	2005 = 100	97	100	106	110	111	111	
31	Inhabitants.....	2005 = 100	100	100	99	99	99	100	
32	Gross value added, Manufacturing (price-adjusted).....	2005 = 100	95	100	106	115	113	114	
33	Imports (cif, current prices).....	2005 = 100	86	100	127	144	146	148	
34	Energy sources.....	2005 = 100	63	100	163	213	248	.	
35	Crude oil, natural gas.....	2005 = 100	63	100	122	161	189	.	
	<b>Energy intensity</b>								
36	Primary energy consumption / GDP (price-adjusted).....	2005 = 100	102	100	92	85	83	86	
37	Final energy consumption / GDP (price-adjusted).....	2005 = 100	104	100	96	88	88	90	
38	Energy intensity - manufacturing.....	2005 = 100	102	100	97	91	91	89	
	<b>Energy consumption per inhabitants</b>								
39	Primary energy consumption.....	2005 = 100	99	100	98	94	93	95	
40	Final energy consumption households.....	2005 = 100	100	100	104	91	94	99	
	<b>Energy efficiency</b>								
41	Final energy consumption / primary energy consumption.....	2005 = 100	102	100	104	104	105	106	
42	Efficiency heat power stations.....	2005 = 100	96	100	102	102	102	101	
	<b>Dependency on imports</b>								
43	Imports / primary energy consumption 5).....	%	72.0	72.1	69.8	69.3	69.3	70.1	
44	Imports / energy consumption.....	%	52.4	54.2	53.1	51.9	52.3	54.2	

\*) 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 concepts**Derivation of main items  
terajoule

No.	Specification	2000	2005	2010	2011
	<b>Supply and use of energy</b>				
1	<b>Total transformation input.....</b>	<b>11,616,589</b>	<b>12,357,410</b>	<b>11,458,110</b>	<b>11,066,184</b>
2	of which: power station input 1).....	5,687,351	6,076,734	6,085,106	5,724,783
3	Other transformation losses.....	5,624,300	5,906,234	4,960,099	4,927,404
4	Other energy sources.....	304,938	374,442	412,905	413,997
5	<b>Own consumption of transformation sectors.....</b>	<b>565,242</b>	<b>611,123</b>	<b>545,558</b>	<b>556,967</b>
6	<b>Non-energy use.....</b>	<b>1,067,788</b>	<b>1,114,355</b>	<b>1,034,021</b>	<b>1,027,281</b>
7	<b>Total final energy consumption.....</b>	<b>9,234,576</b>	<b>9,159,677</b>	<b>9,309,712</b>	<b>8,881,371</b>
8	of which: manufacturing.....	2,421,386	2,513,586	2,592,242	2,633,975
9	Small consumers.....	1,477,633	1,469,169	1,482,507	1,346,115
10	Road traffic.....	2,357,944	2,149,865	2,109,441	2,132,774
11	Rail-, air traffic and navy.....	393,388	436,299	449,858	435,062
12	Households.....	2,584,225	2,590,757	2,675,664	2,333,445
13	<b>Domestic energy consumption (EB 2) , domestic concept.....</b>	<b>22,484,195</b>	<b>23,242,564</b>	<b>22,347,400</b>	<b>21,531,803</b>
14	+ Ship bunkering.....	92,743	104,286	116,156	113,908
15	+ Exports.....	1,442,247	2,147,720	1,836,667	1,672,244
16	- Changes in inventories (withdrawal from stocks, increase in stocks).....	239,086	-36,667	138,170	-64,843
17	+ Losses due to flaring and transformation.....	170,832	175,774	151,931	148,031
18	+ Statistical discrepancies.....	52,406	99,327	-115,310	-78,648
19	<b>Total consumption (domestic concept).....</b>	<b>24,003,337</b>	<b>25,806,339</b>	<b>24,198,675</b>	<b>23,452,181</b>
20	+ Bunkering of residents abroad 3).....	358,504	727,357	817,209	756,389
21	<b>Total consumption (residents concept).....</b>	<b>24,361,840</b>	<b>26,533,697</b>	<b>25,015,884</b>	<b>24,208,570</b>
22	Domestic production.....	12,099,263	13,057,974	12,322,678	12,247,415
23	+ Imports.....	11,904,074	12,748,365	11,875,997	11,204,766
24	+ Bunkering of residents abroad 3).....	358,504	727,357	817,209	756,389
25	<b>Total production (residents concept).....</b>	<b>24,361,840</b>	<b>26,533,696</b>	<b>25,015,884</b>	<b>24,208,570</b>
	<b>Primary energy consumption</b>				
26	<b>Transformation of energy</b>				
27	<b>+ Transformation input.....</b>	<b>11,616,589</b>	<b>12,357,410</b>	<b>11,458,110</b>	<b>11,066,184</b>
28	of which: power station input.....	5,687,351	6,076,734	6,085,106	5,724,783
29	Other transformation sectors.....	304,938	374,442	412,905	413,997
30	Other energy producers.....	5,624,300	5,906,234	4,960,099	4,927,404
31	<b>- Transformation output.....</b>	<b>8,306,631</b>	<b>8,959,307</b>	<b>8,167,267</b>	<b>8,001,851</b>
32	of which: power station input.....	2,384,007	2,742,864	2,795,772	2,677,610
33	Other transformation sectors.....	314,482	378,123	435,554	426,414
34	Other energy producers.....	5,608,142	5,838,320	4,935,941	4,897,827
35	<b>Transformation sectors (net).....</b>	<b>3,309,958</b>	<b>3,398,103</b>	<b>3,290,843</b>	<b>3,064,333</b>
36	<b>Internal consumption of transformation sectors.....</b>	<b>565,242</b>	<b>611,123</b>	<b>545,558</b>	<b>556,967</b>
37	<b>Non-energy use (EB).....</b>	<b>1,067,788</b>	<b>1,114,355</b>	<b>1,034,021</b>	<b>1,027,281</b>
38	<b>Final energy consumption (EB).....</b>	<b>9,234,576</b>	<b>9,159,677</b>	<b>9,309,712</b>	<b>8,881,371</b>
39	<b>Primary energy consumption (domestic concept)</b>	<b>14,177,564</b>	<b>14,283,257</b>	<b>14,180,133</b>	<b>13,529,952</b>
40	+ Losses due to flaring and transformation.....	170,832	175,774	151,931	148,031
41	+ Statistical discrepancies.....	52,406	99,327	-115,310	-78,648
42	<b>Domestic primary energy consumption (EB, domestic concept).....</b>	<b>14,400,802</b>	<b>14,558,359</b>	<b>14,216,755</b>	<b>13,599,335</b>
43	+ Ship bunkering.....	92,743	104,286	116,156	113,908
44	+ Bunkering of residents abroad 3).....	358,504	727,357	817,209	756,389
45	- Bunkering non-residents on the territory 4).....	338,455	293,667	296,751	289,310
46	<b>Balance of bunkering.....</b>	<b>112,792</b>	<b>537,976</b>	<b>636,614</b>	<b>580,987</b>
47	- Losses due to flaring and transformation.....	170,832	175,774	151,931	148,031
48	- Statistical discrepancies.....	52,406	99,327	-115,310	-78,648
49	<b>Primary energy consumption of residents (residents concept).....</b>	<b>14,290,356</b>	<b>14,821,233</b>	<b>14,816,747</b>	<b>14,110,939</b>
50	<b>Private households (domestic consumption) (EB).....</b>	<b>2,584,225</b>	<b>2,590,757</b>	<b>2,675,664</b>	<b>2,333,445</b>
51	+ memorandum item: reposting of road traffic to private households.....	1,384,072	1,414,312	1,361,193	1,376,008
52	- memorandum item: reposting parts of distillate fuel oil to commercial users...	64,516	57,390	40,000	30,000
53	<b>Private households (domestic consumption) (EEA-boundary).....</b>	<b>3,903,781</b>	<b>3,947,680</b>	<b>3,996,857</b>	<b>3,679,453</b>
54	<b>Homogeneous branches.....</b>	<b>10,386,575</b>	<b>10,873,553</b>	<b>10,819,891</b>	<b>10,431,486</b>

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 concepts**Derivation of main items  
terajoule

2012	2013	Table	Cell/ (column)	No.
<b>10,858,126</b>	<b>10,795,826</b>			
5,617,550	5,659,299	3.3.3.1	1, 26, 51, 76 (G)	1
4,955,355	4,863,031	3.3.3.1	1, 26, 51, 76 (F)	2
285,221	273,496			3
<b>522,703</b>	<b>533,328</b>			4
<b>976,179</b>	<b>971,940</b>			5
<b>8,918,547</b>	<b>9,178,527</b>	3.3.3.1	23, 48, 73, 98 (G)	6
2,587,104	2,550,671	3.3.3.1	7, 32, 57, 82 (G)	7
1,345,366	1,460,322	3.3.3.1	11, 36, 61, 86 (G)	8
2,117,366	2,167,378	3.3.3.1	15, 40, 65, 90 (G)	9
441,254	444,186	3.3.3.1	19, 44, 69, 94 (G)	10
2,427,458	2,555,970	3.3.3.1	19, 44, 69, 94 (G)	11
<b>21,275,555</b>	<b>21,479,621</b>	3.2.1/3.2.2	31/70 (minus balance of bunkering)	12
106,264	96,140			13
1,777,714	1,985,446			14
-555	27,991	3.2.2	71	15
149,165	151,334	3.2.2	72	16
22,518	75,773	3.2.2	74	17
<b>23,331,771</b>	<b>23,760,323</b>			18
819,619	806,253			19
<b>24,151,390</b>	<b>24,566,577</b>	3.2.2	75	20
12,123,709	11,993,956	3.2.2	76	21
11,208,062	11,766,367	3.2.2	77	22
819,619	806,253	3.2.2	77	23
<b>24,151,390</b>	<b>24,566,577</b>			24
				25
				26
<b>10,858,126</b>	<b>10,795,826</b>			27
5,617,550	5,659,299			28
285,221	273,496			29
4,955,355	4,863,031			30
<b>8,000,181</b>	<b>7,885,119</b>	3.2.1	32	31
2,769,663	2,787,750	3.3.3.1	2, 27, 52, 77 (F)	32
297,759	293,220			33
4,932,759	4,804,149			34
<b>2,857,945</b>	<b>2,910,707</b>			35
<b>522,703</b>	<b>533,328</b>			36
<b>976,179</b>	<b>971,940</b>			37
<b>8,918,547</b>	<b>9,178,527</b>			38
<b>13,275,374</b>	<b>13,594,502</b>			39
149,165	151,334	3.2.1	33	40
22,518	75,773	3.2.1	33	41
<b>13,447,057</b>	<b>13,821,609</b>	3.2.1/3.3.1/ 3.3.4.1	35/74/74	42
106,264	96,140			43
819,619	806,253			44
308,405	318,471			45
<b>617,477</b>	<b>583,922</b>	3.2.1/3.3.1/3.3.4	34/71/ 71	46
149,165	151,334	3.3.1/3.3.4.1	73	47
22,518	75,773	3.3.1/3.3.4.1	72	48
<b>13,892,852</b>	<b>14,178,424</b>	3.3.1/3.3.4.1	70	49
<b>2,427,458</b>	<b>2,555,970</b>			50
1,358,216	1,379,275			51
30,000	30,000			52
<b>3,755,674</b>	<b>3,905,245</b>	3.2.2/3.3.4	69	53
<b>10,137,177</b>	<b>10,273,179</b>	3.3.4	68	54

**Table 3.2.1: Energy consumption by energy sources (residents concept)<sup>\*)</sup>**

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No.	Source of energy	2 000	2 005	2 010	2 011	2 012	2 013
1	Hard coal.....	1,865,578	1,763,503	1,665,195	1,662,361	1,650,057	1,777,064
2	Hard coal briquettes.....	3,643	1,476	10,802	8,604	4,145	4,208
3	Hard coal coke.....	429,263	332,247	316,051	306,910	297,703	282,074
4	Other coal products.....	39,103	10,503	12,239	29,179	17,051	0
5	Brown coal (lignite).....	1,528,115	1,608,690	1,536,198	1,593,126	1,673,216	1,657,833
6	Lignite briquettes.....	35,057	24,824	31,139	28,712	29,901	30,795
7	Other lignite products.....	67,339	74,336	85,038	96,990	95,055	90,364
8	Hard lignite.....	29,812	128	0	0	0	334
9	Crude oil.....	4,568,702	4,919,545	4,052,556	3,978,529	4,041,554	3,940,328
10	Motor gasoline.....	1,453,867	1,244,586	986,750	995,375	925,125	901,460
11	Petroleum.....	792,089	802,061	737,374	705,623	699,963	720,361
12	Air fuel.....	376,022	425,592	418,964	399,878	417,409	415,869
13	Gas-diesel oil.....	1,207,722	1,293,743	1,404,515	1,442,774	1,450,444	1,500,632
14	Light fuel oil.....	1,253,480	1,145,280	947,047	816,121	850,198	898,307
15	Heavy fuel oil.....	452,654	632,300	659,285	573,595	623,189	594,513
16	Petrolcoke.....	69,290	78,913	68,969	64,227	65,189	65,214
17	Liquid gas.....	153,534	148,892	156,938	153,022	156,937	161,596
18	Refinery gas.....	207,406	226,548	179,814	182,861	176,955	178,355
19	Other mineral oil products.....	317,691	303,188	315,883	334,064	301,758	298,935
20	Coke gas, town gas.....	80,646	64,010	62,809	64,200	60,074	61,848
21	Blast furnace gas.....	156,354	154,090	158,675	155,543	153,796	158,340
22	Natural gas, petroleum gas.....	2,895,790	3,110,764	3,245,232	2,960,304	2,940,513	3,002,875
23	Pit gas.....	7,789	8,756	9,928	12,325	12,635	13,880
24	Water power.....	91,976	70,474	75,442	63,623	78,318	82,793
25	Wind power, solar energy plant 1).....	34,892	102,658	178,114	245,603	277,380	297,785
26	Waste and other biomass.....	349,189	870,973	1,490,529	1,488,125	1,192,907	1,263,021
27	Other renewable energies.....	9,255	16,551	39,016	42,987	59,536	61,777
28	Electricity.....	1,996,751	2,097,824	2,111,263	2,080,155	2,095,784	2,095,416
29	Nuclear energy.....	1,851,148	1,778,594	1,533,330	1,177,858	1,085,011	1,061,345
30	Remote heating.....	272,830	469,491	494,919	450,117	461,230	446,221
31	<b>Total energy sources (residents concept) 2).....</b>	<b>22,596,987</b>	<b>23,780,541</b>	<b>22,984,014</b>	<b>22,112,790</b>	<b>21,893,033</b>	<b>22,063,543</b>
32	- Transformation output.....	8,306,631	8,959,307	8,167,267	8,001,851	8,000,181	7,885,119
33	+ Losses due to flaring and distribution/stat. disc. 3).....	223,239	275,101	36,621	69,383	171,683	227,106
34	- Balance of bunkering 4).....	112,792	537,976	636,613	580,987	617,477	583,922
35	<b>Primary energy consumption (EB).....</b>	<b>14,400,802</b>	<b>14,558,358</b>	<b>14,216,755</b>	<b>13,599,335</b>	<b>13,447,057</b>	<b>13,821,608</b>

\*) 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) <sup>\*)</sup>**  
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No.	CPA <sup>1)</sup>	Homogeneous branches	2000	2005	2010	2011	2012	2013
1	A	Products of agriculture, forestry and fishing.....	169,836	164,828	182,477	181,632	205,378	213,042
2	01	Products of agriculture, hunting and related services.....	165,268	160,557	177,905	177,016	200,743	208,314
3	02	Products of forestry, logging and related services.....	2,401	2,489	2,878	3,038	3,038	3,159
4	03	Fish and other fishing products; aquaculture products.....	2,166	1,783	1,694	1,579	1,597	1,568
5	B	Mining and quarrying.....	90,337	90,299	84,134	103,175	69,663	69,872
6	05	Coal and lignite.....	43,988	51,963	51,343	72,368	40,721	38,846
7	06	Crude petroleum and natural gas.....	23,672	17,084	12,574	13,121	12,787	13,321
8	07-09	Metal ores, other mining and quarrying products.....	22,677	21,252	20,217	17,686	16,155	17,705
9	C	Manufactured products.....	9,729,036	10,209,372	9,263,703	9,260,460	9,089,715	8,990,350
10	10-12	Food products, beverages, tobacco products.....	222,120	224,170	227,614	222,632	226,622	225,408
11	13-15	Textiles, wearing apparel, leather and related products.....	50,046	38,929	26,679	25,259	22,560	21,216
12	16	Wood and products of wood and cork, except furniture.....	43,877	65,500	85,097	90,180	66,915	85,051
13	17	Paper and paper products.....	180,823	305,259	248,982	239,325	229,777	242,957
14	18	Printing and recording services.....	28,078	32,835	23,854	22,505	27,030	22,366
15	19	Coke and refined petroleum products.....	6,087,892	6,388,216	5,408,316	5,365,181	5,387,381	5,289,050
16	19.1	Coke oven products.....	393,071	346,183	371,846	361,811	356,927	368,613
17	19.2	Refined petroleum products.....	5,694,821	6,042,033	5,036,470	5,003,370	5,030,454	4,920,437
18	20	Chemicals and chemical products.....	1,329,072	1,480,289	1,565,402	1,573,166	1,419,177	1,392,443
19	21	Basic pharmaceutical products and pharmaceutical preparations.....	55,382	28,630	24,138	25,307	21,406	34,194
20	22	Rubber and plastic products.....	81,506	88,464	98,187	91,745	91,682	92,958
21	23	Other non-metallic mineral products.....	311,557	254,538	279,714	292,089	279,914	277,705
22	23.1	Glass and glass products.....	100,266	88,023	87,732	89,915	83,083	84,005
23	23.2-9	Refractory products, cut, shaped and finished stone.....	211,291	166,515	191,981	202,174	196,831	193,701
24	24	Basic metals.....	928,643	865,036	836,373	867,907	863,003	836,882
25	24.1-3	Basic iron and steel and ferro-alloys, other products of steel.....	792,631	725,946	711,667	744,229	744,013	723,024
26	24.4	Basic precious and other non-ferrous metals.....	98,244	92,586	77,589	73,671	70,452	70,985
27	24.5	Casting services of metal.....	37,767	46,504	47,118	50,007	48,537	42,873
28	25	Fabricated metal products, except machinery and equipment.....	93,911	104,838	107,280	110,092	109,781	119,023
29	26	Computer, electronic and optical products.....	35,336	29,940	26,687	29,862	30,848	31,231
30	27	Electrical equipment.....	35,526	33,489	32,614	36,781	35,035	37,827
31	28	Machinery and equipment n.e.c.....	85,936	89,723	90,918	88,281	90,540	88,691
32	29	Motor vehicles, trailers and semi-trailers.....	114,613	130,243	123,654	123,910	128,426	132,317
33	30	Other transport equipment.....	16,643	20,731	15,247	13,495	13,940	14,939
34	31-32	Furniture, other manufacture goods.....	16,915	17,511	27,506	27,556	29,531	30,418
35	33	Repair and installation services of machinery and equipment.....	11,160	11,030	15,441	15,189	16,148	15,673
36	D (35)	Electricity, gas, steam and air conditioning.....	5,838,267	6,275,462	6,278,812	5,905,711	5,809,379	5,828,023
37	35.1/3	Electricity, transmission and distribution services, steam.....	5,828,090	6,236,074	6,245,006	5,877,965	5,782,931	5,802,743
38	35.2	Manufactured gas.....	10,177	39,388	33,807	27,747	26,448	25,280
39	E	Water supply; sewerage, waste management and remediation services.....	147,531	114,973	123,718	118,148	113,741	145,292
40	36	Natural water; water treatment and supply services.....	28,814	27,805	32,232	30,808	30,276	29,174
41	37-39	Sewerage services; waste collection and materials recovery services.....	118,717	87,168	91,486	87,340	83,465	116,118
42	37	Sewerage services, sewerage sludge.....	23,889	20,305	22,381	21,739	21,774	22,292
43	38-39	Waste collection, treatment and disposal services.....	94,828	66,863	69,105	65,602	61,690	93,826
44	F	Constructions and construction works.....	295,411	231,448	226,673	241,284	215,243	216,895
45	41-42	Building and building construction works.....	211,576	160,250	146,171	157,935	131,055	128,804
46	43	Specialised construction works.....	83,836	71,198	80,502	83,348	84,188	88,091
47	G	Wholesale and retail trade services; repair services of motor vehicles.....	479,550	435,339	420,236	399,986	401,629	414,472
48	45	Wholesale and retail trade and repair services of motor vehicles.....	82,181	66,256	69,207	65,027	67,743	69,650
49	46	Wholesale trade services, except of motor vehicles and motorcycles.....	143,435	134,249	117,090	114,905	115,263	119,340
50	47	Retail trade services, except of motor vehicles and motorcycles.....	253,934	234,834	233,940	220,053	218,623	225,483
51	H	Transportation and storage services.....	878,210	1,187,436	1,310,069	1,233,842	1,276,759	1,275,349
52	49.1-2	Passenger rail transport services, freight rail transport services.....	77,529	70,900	66,057	65,760	52,593	52,173
53	49.3-5	Other passenger land transport services, transport service via pipeline.....	160,103	187,642	231,978	234,441	226,097	226,208
54	50	Water transport services.....	61,087	289,402	382,704	327,539	373,815	370,581
55	51	Air transport services.....	379,082	436,720	418,066	398,008	418,495	416,047
56	52	Warehousing and support services for transportation.....	150,210	152,958	148,191	145,205	143,087	146,866
57	53	Postal and courier services.....	50,199	49,814	63,073	62,889	62,673	63,475
58	I	Accommodation and food services.....	109,956	120,252	109,450	101,119	97,986	102,124
59	J	Information and communication services.....	97,322	103,089	88,940	83,926	82,295	84,841
60	K	Financial and insurance services.....	49,724	48,487	44,951	39,423	39,133	41,451
61	L	Real estate services.....	32,151	34,950	36,459	34,567	36,616	38,345
62	M	Professional, scientific and technical services.....	140,302	167,765	187,064	175,175	174,778	179,001
63	N	Administrative and support services.....	20,608	25,931	25,045	23,789	23,134	24,830
64	O	Public administration and defence services.....	166,723	155,240	159,635	142,276	134,268	142,440
65	P	Education services.....	111,471	129,761	120,841	100,765	89,751	99,259
66	Q	Human health and social work services.....	147,381	175,583	180,639	163,254	157,663	167,977
67	R-T	Other services.....	189,388	162,644	144,311	124,804	120,226	124,735
68		<b>All homogeneous branches.....</b>	<b>18,693,206</b>	<b>19,832,860</b>	<b>18,987,157</b>	<b>18,433,337</b>	<b>18,137,358</b>	<b>18,158,298</b>
69		Private households (residents consumption).....	3,903,781	3,947,680	3,996,857	3,679,453	3,755,674	3,905,245
70		<b>All homogeneous branches and private households (residents concept) 2).....</b>	<b>22,596,987</b>	<b>23,780,541</b>	<b>22,984,014</b>	<b>22,112,790</b>	<b>21,893,033</b>	<b>22,063,543</b>
71	+	Change in inventories.....	-239,086	36,667	-138,170	64,843	555	-27,991
72	+	Losses due to flaring and distributions.....	170,832	175,774	151,931	148,031	149,165	151,334
73	+	Exports and bunkering non-residents on the territory.....	1,780,701	2,441,387	2,133,418	1,961,554	2,086,120	2,303,917
74	+	Statistical discrepancies.....	52,406	99,327	-115,310	-78,648	22,518	75,772
75	=	<b>Total use (residents concept).....</b>	<b>24,361,841</b>	<b>26,533,696</b>	<b>25,015,883</b>	<b>24,208,570</b>	<b>24,151,390</b>	<b>24,566,575</b>
76		Domestic production.....	12,099,263	13,057,974	12,322,678	12,247,415	12,123,709	11,993,956
77		Imports and bunkering of residents abroad.....	12,262,578	13,475,722	12,693,206	11,961,155	12,027,681	12,572,620

<sup>\*)</sup> 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)<sup>\*)</sup>**  
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No.	CPA <sup>1)</sup>	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.....	169,836	1,329	678	132,149	0	4,499	96,454
2	01	Products of agriculture, hunting and related services.....	165,268	1,329	678	128,647	0	4,265	93,185
3	02	Products of forestry, logging and related services.....	2,401	0	0	1,832	0	230	1,602
4	03	Fish and other fishing products; aquaculture products.....	2,166	0	0	1,670	0	3	1,667
5	B	Mining and quarrying.....	90,337	1,291	8,707	10,658	0	676	4,909
6	05	Coal and lignite.....	43,988	211	7,235	2,586	0	261	1,266
7	06	Crude petroleum and natural gas.....	23,672	0	0	513	0	114	392
8	07-09	Metal ores, other mining and quarrying products.....	22,677	1,080	1,472	7,559	0	301	3,251
9	C	Manufactured products.....	9,729,036	931,719	172,611	6,648,300	4,568,702	168,619	51,830
10	10-12	Food products, beverages, tobacco products.....	222,120	6,212	5,041	51,595	0	2,164	5,722
11	13-15	Textiles, wearing apparel, leather and related products.....	50,046	1,143	10	7,088	0	539	1,193
12	16	Wood and products of wood and cork, except furniture.....	43,877	153	92	7,667	0	400	940
13	17	Paper and paper products.....	180,823	13,629	3,039	8,585	0	537	1,224
14	18	Printing and recording services.....	28,078	50	26	3,048	0	293	871
15	19	Coke and refined petroleum products.....	6,087,892	353,097	115,051	5,526,237	4,568,702	147,950	2,157
16	19.1	Coke oven products.....	393,071	323,022	0	19,640	0	0	0
17	19.2	Refined petroleum products.....	5,694,821	30,075	115,051	5,506,596	4,568,702	147,950	2,157
18	20	Chemicals and chemical products.....	1,329,072	30,995	9,907	816,308	0	1,865	4,366
19	21	Basic pharmaceutical products and pharmaceutical preparations.....	55,382	1,636	39	21,753	0	414	985
20	22	Rubber and plastic products.....	81,506	0	108	9,196	0	931	2,128
21	23	Other non-metallic mineral products.....	311,557	48,245	38,595	53,607	0	731	1,768
22	23.1	Glass and glass products.....	100,266	0	0	15,198	0	162	366
23	23.2-9	Refractory products, cut, shaped and finished stone.....	211,291	48,245	38,595	38,409	0	569	1,403
24	24	Basic metals.....	928,643	474,029	481	49,880	0	1,071	2,466
25	24.1-3	Basic iron and steel and ferro-alloys, other products of steel.....	792,631	460,064	2	40,646	0	555	1,276
26	24.4	Basic precious and other non-ferrous metals.....	98,244	3,360	396	6,725	0	371	853
27	24.5	Casting services of metal.....	37,767	10,605	83	2,509	0	145	338
28	25	Fabricated metal products, except machinery and equipment.....	93,911	640	49	20,697	0	1,673	4,114
29	26	Computer, electronic and optical products.....	35,336	14	7	7,595	0	1,022	2,222
30	27	Electrical equipment.....	35,526	552	81	8,093	0	1,208	3,022
31	28	Machinery and equipment n.e.c.....	85,936	536	49	22,413	0	2,428	5,810
32	29	Motor vehicles, trailers and semi-trailers.....	114,613	723	3	21,415	0	3,661	8,637
33	30	Other transport equipment.....	16,643	1	0	2,595	0	466	1,136
34	31-32	Furniture, other manufacture goods.....	16,915	64	33	5,984	0	615	1,414
35	33	Repair and installation services of machinery and equipment.....	11,160	0	0	4,543	0	651	1,653
36	D (35)	Electricity, gas, steam and air conditioning.....	5,838,267	1,363,356	1,451,322	97,745	0	659	2,618
37	35.1/.3	Electricity, transmission and distribution services, steam.....	5,828,090	1,363,356	1,451,322	97,287	0	556	2,262
38	35.2	Manufactured gas.....	10,177	0	0	458	0	102	356
39	E	Water supply; sewerage, waste management and remediation services.....	147,531	646	3	84,268	0	10,680	62,092
40	36	Natural water; water treatment and supply services.....	28,814	0	0	481	0	109	372
41	37-39	Sewerage services; waste collection and materials recovery services.....	118,717	646	3	83,787	0	10,572	61,720
42	37	Sewerage services, sewerage sludge.....	23,889	0	0	9,043	0	1,689	7,354
43	38-39	Waste collection, treatment and disposal services.....	94,828	646	3	74,744	0	8,883	54,366
44	F	Constructions and construction works.....	295,411	410	209	262,321	0	13,705	90,075
45	41-42	Building and building construction works.....	211,576	200	102	195,417	0	6,303	45,676
46	43	Specialised construction works.....	83,836	209	107	66,905	0	7,402	44,399
47	G	Wholesale and retail trade services; repair services of motor vehicles.....	479,550	3,771	1,924	248,278	0	34,093	106,178
48	45	Wholesale and retail trade and repair services of motor vehicles.....	82,181	421	215	54,575	0	1,352	9,186
49	46	Wholesale trade services, except of motor vehicles and motorcycles.....	143,435	735	375	83,186	0	7,344	60,460
50	47	Retail trade services, except of motor vehicles and motorcycles.....	253,934	2,616	1,335	110,517	0	25,396	36,552
51	H	Transportation and storage services.....	878,210	60	447	782,087	0	9,762	355,275
52	49.1-2	Passenger rail transport services, freight rail transport services.....	77,529	36	434	31,960	0	41	29,044
53	49.3-5	Other passenger land transport services, transport service via pipeline.....	160,103	0	0	141,276	0	4,750	129,676
54	50	Water transport services.....	61,087	0	0	61,068	0	8	30,477
55	51	Air transport services.....	379,082	0	0	379,055	0	1,173	9,282
56	52	Warehousing and support services for transportation.....	150,210	0	0	124,095	0	1,313	116,415
57	53	Postal and courier services.....	50,199	24	12	44,633	0	2,478	40,380
58	I	Accommodation and food services.....	109,956	974	497	33,602	0	2,647	1,442
59	J	Information and communication services.....	97,322	132	67	54,147	0	9,837	32,954
60	K	Financial and insurance services.....	49,724	175	90	17,094	0	2,171	1,157
61	L	Real estate services.....	32,151	33	17	9,940	0	3,809	3,234
62	M	Professional, scientific and technical services.....	140,302	160	82	97,422	0	37,456	44,695
63	N	Administrative and support services.....	20,608	29	15	11,510	0	2,004	6,633
64	O	Public administration and defence services.....	166,723	2,311	2,041	75,323	0	12,302	18,490
65	P	Education services.....	111,471	523	267	22,463	0	353	952
66	Q	Human health and social work services.....	147,381	2,118	1,081	28,786	0	2,974	1,931
67	R-T	Other services.....	189,388	298	152	103,181	0	11,894	68,227
68		<b>All homogeneous branches.....</b>	<b>18,693,206</b>	<b>2,309,335</b>	<b>1,640,209</b>	<b>8,719,276</b>	<b>4,568,702</b>	<b>328,144</b>	<b>949,145</b>
69		Private households (residents consumption).....	3,903,781	28,252	20,114	2,133,181	0	1,125,723	258,577
70		<b>All homogeneous branches and private households (residents concept)<sup>3)</sup></b>	<b>22,596,987</b>	<b>2,337,587</b>	<b>1,660,323</b>	<b>10,852,457</b>	<b>4,568,702</b>	<b>1,453,867</b>	<b>1,207,722</b>
71	+	Change in inventories.....	170,832	0	0	0	0	0	0
72	+	Losses due to flaring and distributions.....	-239,086	-103,148	-5,679	-152,011	-145,095	55,830	-39,533
73	+	Exports and bunkering non-residents on the territory.....	1,780,701	47,714	13,144	1,261,041	137,632	219,589	315,765
74	+	Statistical discrepancies.....	52,406	-17,240	1,405	0	0	0	0
75	=	<b>Total use (residents concept).....</b>	<b>24,361,841</b>	<b>2,264,913</b>	<b>1,669,193</b>	<b>11,961,487</b>	<b>4,561,239</b>	<b>1,729,286</b>	<b>1,483,954</b>
76		Domestic production.....	12,099,263	1,310,782	1,639,192	5,372,370	131,271	1,310,915	1,114,470
77		Imports and bunkering of residents abroad.....	12,262,578	954,131	30,001	6,589,117	4,429,968	418,371	369,484

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

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

<sup>2)</sup> Including biogas and generation plants of other energy producers.

<sup>3)</sup> 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)<sup>\*)</sup>**  
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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 <sup>2)</sup>	Biomass	Renewable energies	non-renewable waste, waste heat, etc.				
0	30,308	0	888	13,272	2,959	0	414	2,545	0	19,014	0	433	1
0	30,308	0	888	13,272	2,954	0	408	2,545	0	17,956	0	433	2
0	0	0	0	0	6	0	6	0	0	563	0	0	3
0	0	0	0	0	0	0	0	0	0	496	0	0	4
0	4,250	562	261	28,124	65	0	65	0	0	38,641	0	2,850	5
0	768	30	261	1,168	6	0	6	0	0	30,081	0	2,700	6
0	7	0	0	21,517	3	0	3	0	0	1,639	0	0	7
0	3,475	532	0	5,439	57	0	57	0	0	6,921	0	150	8
158	190,886	391,043	1,277,062	1,092,032	26,855	0	26,849	6	0	808,340	0	49,178	9
0	30,654	9,506	3,550	95,392	50	0	50	0	0	60,380	0	3,450	10
0	4,386	942	28	20,510	13	0	12	1	0	19,489	0	1,792	11
0	4,164	2,030	133	9,916	7,756	0	7,755	1	0	16,635	0	1,660	12
0	3,013	2,839	972	79,822	5,913	0	5,913	0	0	67,331	0	2,505	13
0	1,869	0	14	10,314	10	0	9	1	0	13,539	0	1,091	14
158	54,927	147,670	604,672	63,111	15	0	15	0	0	26,381	0	4,000	15
0	30	0	19,610	48,691	0	0	0	0	0	1,717	0	0	16
158	54,897	147,670	585,062	14,420	15	0	15	0	0	24,664	0	4,000	17
0	29,073	166,748	614,256	285,828	12,322	0	12,322	0	0	161,862	0	11,850	18
0	984	1,917	17,452	21,092	5	0	5	0	0	10,857	0	0	19
0	5,165	878	93	23,520	22	0	22	0	0	47,297	0	1,362	20
0	9,768	20,029	21,311	120,633	407	0	407	0	0	49,120	0	950	21
0	1,386	9,768	3,517	65,261	4	0	4	0	0	19,603	0	200	22
0	8,382	10,262	17,794	55,372	403	0	403	0	0	29,517	0	750	23
0	5,067	37,324	3,951	250,173	26	0	26	0	0	152,628	0	1,426	24
0	1,130	36,021	1,664	211,395	13	0	13	0	0	79,453	0	1,058	25
0	2,358	1,221	1,922	28,214	9	0	9	0	0	59,250	0	290	26
0	1,579	82	365	10,563	4	0	4	0	0	13,925	0	78	27
0	13,640	188	1,081	33,900	41	0	41	0	0	36,735	0	1,850	28
0	4,339	0	12	7,062	43	0	42	1	0	18,223	0	2,391	29
0	3,711	122	30	3,000	50	0	48	1	0	21,307	0	2,442	30
0	11,716	639	1,820	24,193	62	0	62	0	0	34,775	0	3,909	31
0	3,755	48	5,314	31,689	94	0	94	0	0	54,076	0	6,612	32
0	898	0	95	7,124	12	0	12	0	0	5,672	0	1,238	33
0	3,756	163	37	4,702	15	0	14	1	0	5,466	0	652	34
0	0	0	2,239	50	0	0	0	0	0	6,566	0	0	35
0	23,560	34,209	36,700	647,099	257,687	126,868	73,950	407	56,462	168,510	1,851,148	1,400	36
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
0	0	0	0	0	1	0	1	0	0	9,718	0	0	38
0	408	335	10,753	503	15,925	0	15,925	0	0	46,120	0	66	39
0	0	0	0	0	1	0	1	0	0	28,332	0	0	40
0	408	335	10,753	503	15,923	0	15,923	0	0	17,788	0	66	41
0	0	0	0	0	113	0	113	0	0	14,733	0	0	42
0	408	335	10,753	503	15,811	0	15,811	0	0	3,055	0	66	43
0	27,901	0	130,639	16,052	383	0	365	19	0	15,125	0	912	44
0	13,627	0	129,810	7,858	189	0	179	9	0	7,360	0	450	45
0	14,274	0	829	8,194	195	0	185	9	0	7,764	0	462	46
0	80,476	0	27,531	101,039	984	0	977	7	0	115,092	0	8,462	47
0	17,465	0	26,572	13,150	143	0	143	0	0	11,578	0	2,099	48
0	15,375	0	7	29,182	521	0	521	0	0	27,600	0	1,837	49
0	47,637	0	952	58,707	320	0	314	6	0	75,914	0	4,525	50
368,600	6,381	26,316	15,753	10,554	5,632	0	5,632	0	0	77,198	0	2,233	51
0	454	0	2,421	454	53	0	53	0	0	44,516	0	76	52
0	0	0	6,850	0	3,202	0	3,202	0	0	15,624	0	0	53
0	0	26,316	4,266	0	19	0	19	0	0	0	0	0	54
368,600	0	0	0	0	26	0	26	0	0	0	0	0	55
0	4,152	0	2,214	8,129	1,590	0	1,590	0	0	14,547	0	1,850	56
0	1,775	0	0	1,971	741	0	741	0	0	2,511	0	307	57
0	27,855	0	1,658	33,538	9	0	7	2	0	36,627	0	4,709	58
0	11,351	0	4	11,949	234	0	225	9	0	28,696	0	2,097	59
0	13,766	0	0	14,602	28	0	14	13	0	15,371	0	2,364	60
0	2,897	0	0	2,703	27	0	19	7	0	18,932	0	499	61
0	14,676	0	595	17,127	204	0	197	7	0	21,759	0	3,549	62
0	2,872	0	0	5,413	159	0	157	1	0	2,688	0	795	63
7,264	35,656	189	1,422	39,978	33	0	28	4	0	39,606	0	7,431	64
0	21,158	0	0	54,251	3	0	3	0	0	15,650	0	18,314	65
0	23,880	0	0	65,617	34	0	20	14	0	31,391	0	18,355	66
0	23,059	0	1	38,995	789	0	789	0	0	28,190	0	17,783	67
<b>376,022</b>	<b>541,341</b>	<b>452,654</b>	<b>1,503,268</b>	<b>2,192,847</b>	<b>312,010</b>	<b>126,868</b>	<b>125,638</b>	<b>3,042</b>	<b>56,462</b>	<b>1,526,951</b>	<b>1,851,148</b>	<b>141,430</b>	<b>68</b>
0	712,139	0	36,742	947,732	173,302	0	167,089	6,213	0	469,800	0	131,400	69
<b>376,022</b>	<b>1,253,480</b>	<b>452,654</b>	<b>1,540,010</b>	<b>3,140,579</b>	<b>485,312</b>	<b>126,868</b>	<b>292,727</b>	<b>9,255</b>	<b>56,462</b>	<b>1,996,751</b>	<b>1,851,148</b>	<b>272,830</b>	<b>70</b>
0	0	0	0	45,402	0	0	0	0	0	84,776	0	40,654	71
-2,902	-31,933	13,014	-1,392	21,752	0	0	0	0	0	0	0	0	72
127,990	59,376	241,483	159,206	307,326	0	0	0	0	0	151,477	0	0	73
0	0	0	0	68,240	0	0	0	0	0	1	0	0	74
<b>501,110</b>	<b>1,280,923</b>	<b>707,151</b>	<b>1,697,824</b>	<b>3,583,299</b>	<b>485,312</b>	<b>126,868</b>	<b>292,727</b>	<b>9,255</b>	<b>56,462</b>	<b>2,233,005</b>	<b>1,851,148</b>	<b>313,484</b>	<b>75</b>
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
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)<sup>\*)</sup>**  
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No.	CPA <sup>1)</sup>	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.....	164,828	975	25	124,120	0	3,450	96,824
2	01	Products of agriculture, hunting and related services.....	160,557	975	25	120,801	0	3,340	93,615
3	02	Products of forestry, logging and related services.....	2,489	0	0	1,997	0	104	1,893
4	03	Fish and other fishing products; aquaculture products.....	1,783	0	0	1,322	0	6	1,316
5	B	Mining and quarrying.....	90,299	8,905	11,179	7,582	0	252	3,072
6	05	Coal and lignite.....	51,963	7,560	9,209	1,206	0	71	720
7	06	Crude petroleum and natural gas.....	17,084	0	0	567	0	59	470
8	07-09	Metal ores, other mining and quarrying products.....	21,252	1,345	1,970	5,809	0	123	1,881
9	C	Manufactured products.....	10,209,372	776,348	177,180	6,961,729	4,919,545	147,755	51,526
10	10-12	Food products, beverages, tobacco products.....	224,170	3,383	5,699	37,687	0	1,376	5,092
11	13-15	Textiles, wearing apparel, leather and related products.....	38,929	772	0	6,688	0	236	869
12	16	Wood and products of wood and cork, except furniture.....	65,500	15	269	3,834	0	206	1,033
13	17	Paper and paper products.....	305,259	13,671	3,406	6,917	0	282	1,072
14	18	Printing and recording services.....	32,835	13	0	2,863	0	219	807
15	19	Coke and refined petroleum products.....	6,388,216	311,109	114,145	5,894,211	4,919,545	135,190	2,481
16	19.1	Coke oven products.....	346,183	298,268	0	22,404	0	3	13
17	19.2	Refined petroleum products.....	6,042,033	12,842	114,145	5,871,807	4,919,545	135,187	2,469
18	20	Chemicals and chemical products.....	1,480,289	4,088	10,542	836,535	0	993	3,879
19	21	Basic pharmaceutical products and pharmaceutical preparations.....	28,630	0	0	10,809	0	241	897
20	22	Rubber and plastic products.....	88,464	32	88	9,268	0	540	1,993
21	23	Other non-metallic mineral products.....	254,538	13,620	41,070	33,805	0	329	1,417
22	23.1	Glass and glass products.....	88,023	0	485	9,287	0	76	303
23	23.2-9	Refractory products, cut, shaped and finished stone.....	166,515	13,620	40,585	24,517	0	253	1,114
24	24	Basic metals.....	865,036	427,447	1,958	39,810	0	740	2,771
25	24.1-3	Basic iron and steel and ferro-alloys, other products of steel.....	725,946	416,025	1,264	32,492	0	416	1,561
26	24.4	Basic precious and other non-ferrous metals.....	92,586	3,183	596	5,440	0	224	839
27	24.5	Casting services of metal.....	46,504	8,239	98	1,878	0	101	371
28	25	Fabricated metal products, except machinery and equipment.....	104,838	340	1	16,892	0	942	3,995
29	26	Computer, electronic and optical products.....	29,940	27	1	5,327	0	525	2,069
30	27	Electrical equipment.....	33,489	499	0	7,551	0	897	3,613
31	28	Machinery and equipment n.e.c.....	89,723	224	1	18,949	0	1,648	6,820
32	29	Motor vehicles, trailers and semi-trailers.....	130,243	1,091	0	18,536	0	2,395	8,857
33	30	Other transport equipment.....	20,731	0	0	2,195	0	300	1,210
34	31-32	Furniture, other manufacture goods.....	17,511	16	0	5,331	0	292	1,159
35	33	Repair and installation services of machinery and equipment.....	11,030	0	0	4,521	0	405	1,493
36	D (35)	Electricity, gas, steam and air conditioning.....	6,275,462	1,300,233	1,501,031	116,588	0	649	3,320
37	35.1/.3	Electricity, transmission and distribution services, steam.....	6,236,074	1,300,233	1,501,031	115,977	0	544	2,814
38	35.2	Manufactured gas.....	39,388	0	0	611	0	105	506
39	E	Water supply; sewerage, waste management and remediation services.....	114,973	0	0	58,805	0	3,467	53,299
40	36	Natural water; water treatment and supply services.....	27,805	0	0	524	0	89	435
41	37-39	Sewerage services; waste collection and materials recovery services.....	87,168	0	0	58,282	0	3,378	52,864
42	37	Sewerage services, sewerage sludge.....	20,305	0	0	5,737	0	946	4,788
43	38-39	Waste collection, treatment and disposal services.....	66,863	0	0	52,545	0	2,431	48,076
44	F	Constructions and construction works.....	231,448	262	7	202,421	0	8,757	71,834
45	41-42	Building and building construction works.....	160,250	118	3	147,060	0	4,602	35,349
46	43	Specialised construction works.....	71,198	144	4	55,360	0	4,155	36,484
47	G	Wholesale and retail trade services; repair services of motor vehicles.....	435,339	2,078	52	218,448	0	17,873	107,795
48	45	Wholesale and retail trade and repair services of motor vehicles.....	66,256	146	4	43,485	0	971	8,815
49	46	Wholesale trade services, except of motor vehicles and motorcycles.....	134,249	137	3	74,224	0	4,526	56,235
50	47	Retail trade services, except of motor vehicles and motorcycles.....	234,834	1,795	45	100,739	0	12,376	42,745
51	H	Transportation and storage services.....	1,187,436	0	0	1,071,560	0	5,771	360,728
52	49.1-2	Passenger rail transport services, freight rail transport services.....	70,900	0	0	24,095	0	31	21,636
53	49.3-5	Other passenger land transport services, transport service via pipeline.....	187,642	0	0	160,907	0	2,304	152,345
54	50	Water transport services.....	289,402	0	0	287,897	0	69	24,867
55	51	Air transport services.....	436,720	0	0	435,689	0	797	10,980
56	52	Warehousing and support services for transportation.....	152,958	0	0	119,708	0	1,114	110,890
57	53	Postal and courier services.....	49,814	0	0	43,264	0	1,457	40,010
58	I	Accommodation and food services.....	120,252	457	11	36,225	0	1,428	1,838
59	J	Information and communication services.....	103,089	0	0	48,039	0	4,364	30,109
60	K	Financial and insurance services.....	48,487	0	0	16,841	0	1,230	1,941
61	L	Real estate services.....	34,950	0	0	12,572	0	2,576	7,286
62	M	Professional, scientific and technical services.....	167,765	0	0	92,401	0	22,291	50,791
63	N	Administrative and support services.....	25,931	0	0	15,432	0	1,312	9,894
64	O	Public administration and defence services.....	155,240	1,454	1,455	68,836	0	10,148	18,717
65	P	Education services.....	129,761	217	5	23,928	0	268	1,247
66	Q	Human health and social work services.....	175,583	1,249	31	33,676	0	2,466	3,727
67	R-T	Other services.....	162,644	143	4	68,021	0	4,740	39,916
68		<b>All homogeneous branches.....</b>	<b>19,832,860</b>	<b>2,092,322</b>	<b>1,690,981</b>	<b>9,177,226</b>	<b>4,919,545</b>	<b>238,795</b>	<b>913,866</b>
69		Private households (residents consumption).....	3,947,680	15,407	16,998	2,043,422	0	1,005,792	379,877
70		<b>All homogeneous branches and private households (residents concept) 3)</b>	<b>23,780,541</b>	<b>2,107,729</b>	<b>1,707,978</b>	<b>11,220,648</b>	<b>4,919,545</b>	<b>1,244,586</b>	<b>1,293,743</b>
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.....	2,441,387	58,932	16,226	1,431,335	30,190	259,306	451,961
74	+	Statistical discrepancies.....	99,327	-30,978	205	0	0	0	0
75	=	<b>Total use (residents concept).....</b>	<b>26,533,696</b>	<b>2,159,957</b>	<b>1,725,019</b>	<b>12,727,071</b>	<b>4,977,199</b>	<b>1,505,920</b>	<b>1,733,214</b>
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.....	13,475,722	1,135,123	1,934	7,056,737	4,823,748	133,557	267,304

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

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

<sup>2)</sup> Including biogas and generation plants of other energy producers.

<sup>3)</sup> 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 2010 (residents concept)<sup>\*)</sup>**  
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No.	CPA <sup>1)</sup>	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.....	182,477	300	0	134,371	0	2,097	108,690
2	01	Products of agriculture, hunting and related services.....	177,905	300	0	130,907	0	2,030	105,295
3	02	Products of forestry, logging and related services.....	2,878	0	0	2,307	0	60	2,246
4	03	Fish and other fishing products; aquaculture products.....	1,694	0	0	1,156	0	7	1,149
5	B	Mining and quarrying.....	84,134	8,201	12,604	6,261	0	234	3,685
6	05	Coal and lignite.....	51,343	8,088	10,394	1,303	0	33	854
7	06	Crude petroleum and natural gas.....	12,574	0	0	1,740	0	146	1,585
8	07-09	Metal ores, other mining and quarrying products.....	20,217	113	2,210	3,217	0	55	1,247
9	C	Manufactured products.....	9,263,703	803,797	209,527	5,856,877	4,052,556	77,529	56,125
10	10-12	Food products, beverages, tobacco products.....	227,614	3,818	4,751	26,814	0	902	5,653
11	13-15	Textiles, wearing apparel, leather and related products.....	26,679	501	0	1,659	0	116	726
12	16	Wood and products of wood and cork, except furniture.....	85,097	0	132	4,968	0	123	1,038
13	17	Paper and paper products.....	248,982	12,175	4,144	5,262	0	206	1,302
14	18	Printing and recording services.....	23,854	0	0	1,979	0	125	782
15	19	Coke and refined petroleum products.....	5,408,316	318,463	132,011	4,875,377	4,052,556	69,206	2,092
16	19.1	Coke oven products.....	371,846	310,635	0	35,383	0	2	11
17	19.2	Refined petroleum products.....	5,036,470	7,828	132,011	4,839,994	4,052,556	69,204	2,081
18	20	Chemicals and chemical products.....	1,565,402	20,188	25,257	786,568	0	633	3,954
19	21	Basic pharmaceutical products and pharmaceutical preparations.....	24,138	0	0	3,712	0	162	1,004
20	22	Rubber and plastic products.....	98,187	0	374	12,554	0	345	2,148
21	23	Other non-metallic mineral products.....	279,714	16,446	42,374	31,866	0	208	1,326
22	23.1	Glass and glass products.....	87,732	0	0	8,771	0	50	315
23	23.2-9	Refractory products, cut, shaped and finished stone.....	191,981	16,446	42,374	23,095	0	158	1,010
24	24	Basic metals.....	836,373	430,960	385	24,876	0	499	3,138
25	24.1-3	Basic iron and steel and ferro-alloys, other products of steel.....	711,667	419,625	90	14,721	0	270	1,687
26	24.4	Basic precious and other non-ferrous metals.....	77,589	816	295	6,245	0	161	1,021
27	24.5	Casting services of metal.....	47,118	10,519	0	3,911	0	69	431
28	25	Fabricated metal products, except machinery and equipment.....	107,280	298	0	16,380	0	594	3,707
29	26	Computer, electronic and optical products.....	26,687	0	0	4,659	0	430	2,667
30	27	Electrical equipment.....	32,614	174	0	6,500	0	466	2,909
31	28	Machinery and equipment n.e.c.....	90,918	86	99	19,364	0	1,013	6,647
32	29	Motor vehicles, trailers and semi-trailers.....	123,654	688	0	21,064	0	1,853	12,999
33	30	Other transport equipment.....	15,247	0	0	3,762	0	279	1,780
34	31-32	Furniture, other manufacture goods.....	27,506	0	0	5,428	0	172	1,065
35	33	Repair and installation services of machinery and equipment.....	15,441	0	0	4,087	0	198	1,188
36	D (35)	Electricity, gas, steam and air conditioning.....	6,278,812	1,150,899	1,405,317	88,556	0	761	5,567
37	35.1/.3	Electricity, transmission and distribution services, steam.....	6,245,006	1,150,899	1,405,317	87,729	0	660	4,843
38	35.2	Manufactured gas.....	33,807	0	0	828	0	101	725
39	E	Water supply; sewerage, waste management and remediation services.....	123,718	0	0	63,567	0	2,710	55,183
40	36	Natural water; water treatment and supply services.....	32,232	0	0	1,023	0	55	967
41	37-39	Sewerage services; waste collection and materials recovery services.....	91,486	0	0	62,545	0	2,655	54,216
42	37	Sewerage services, sewerage sludge.....	22,381	0	0	5,838	0	670	5,152
43	38-39	Waste collection, treatment and disposal services.....	69,105	0	0	56,706	0	1,985	49,065
44	F	Constructions and construction works.....	226,673	0	0	196,888	0	5,346	75,200
45	41-42	Building and building construction works.....	146,171	0	0	135,899	0	2,391	30,059
46	43	Specialised construction works.....	80,502	0	0	60,989	0	2,956	45,141
47	G	Wholesale and retail trade services; repair services of motor vehicles.....	420,236	2,407	0	198,049	0	14,211	103,532
48	45	Wholesale and retail trade and repair services of motor vehicles.....	69,207	326	0	43,003	0	684	11,185
49	46	Wholesale trade services, except of motor vehicles and motorcycles.....	117,090	528	0	67,504	0	4,055	55,791
50	47	Retail trade services, except of motor vehicles and motorcycles.....	233,940	1,553	0	87,543	0	9,472	36,556
51	H	Transportation and storage services.....	1,310,069	0	0	1,174,188	0	4,827	386,733
52	49.1-2	Passenger rail transport services, freight rail transport services.....	66,057	0	0	17,842	0	10	15,805
53	49.3-5	Other passenger land transport services, transport service via pipeline.....	231,978	0	0	197,629	0	2,017	189,881
54	50	Water transport services.....	382,704	0	0	381,949	0	11	30,877
55	51	Air transport services.....	418,066	0	0	417,950	0	579	831
56	52	Warehousing and support services for transportation.....	148,191	0	0	104,448	0	768	97,514
57	53	Postal and courier services.....	63,073	0	0	54,371	0	1,441	51,826
58	I	Accommodation and food services.....	109,450	540	0	32,780	0	1,017	2,130
59	J	Information and communication services.....	88,940	0	0	30,133	0	2,171	20,719
60	K	Financial and insurance services.....	44,951	0	0	10,983	0	755	2,823
61	L	Real estate services.....	36,459	0	0	11,385	0	1,746	8,083
62	M	Professional, scientific and technical services.....	187,064	0	0	93,275	0	14,749	65,014
63	N	Administrative and support services.....	25,045	0	0	9,398	0	638	4,364
64	O	Public administration and defence services.....	159,635	4,628	2,169	56,877	0	7,129	21,459
65	P	Education services.....	120,841	310	0	21,282	0	221	1,379
66	Q	Human health and social work services.....	180,639	1,989	0	35,415	0	2,658	6,187
67	R-T	Other services.....	144,311	217	0	61,496	0	3,608	41,735
68		<b>All homogeneous branches.....</b>	<b>18,987,157</b>	<b>1,973,287</b>	<b>1,629,617</b>	<b>8,081,783</b>	<b>4,052,556</b>	<b>142,410</b>	<b>968,608</b>
69		Private households (residents consumption).....	3,996,857	31,000	22,758	1,846,312	0	844,340	435,907
70		<b>All homogeneous branches and private households (residents concept) 3)</b>	<b>22,984,014</b>	<b>2,004,287</b>	<b>1,652,375</b>	<b>9,928,095</b>	<b>4,052,556</b>	<b>986,750</b>	<b>1,404,515</b>
71	+	Change in inventories.....	151,931	0	0	0	0	0	0
72	+	Losses due to flaring and distributions.....	-138,170	-6,760	-1,520	2,155	-12,636	459	19,857
73	+	Exports and bunkering non-residents on the territory.....	2,133,418	63,693	26,642	1,080,301	29,996	221,776	284,120
74	+	Statistical discrepancies.....	-115,310	-39,581	-6,482	0	0	0	0
75	=	<b>Total use (residents concept).....</b>	<b>25,015,883</b>	<b>2,021,639</b>	<b>1,671,015</b>	<b>11,010,551</b>	<b>4,069,916</b>	<b>1,208,985</b>	<b>1,708,492</b>
76		Domestic production.....	12,322,678	637,137	1,668,905	4,714,816	106,905	997,654	1,222,394
77		Imports and bunkering of residents abroad.....	12,693,206	1,384,502	2,110	6,295,735	3,963,011	211,331	486,098

\*) 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 3.2.3.4: Energy consumption of homogeneous branches by type of energy source 2013 (residents concept)<sup>1)</sup>**  
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No.	CPA <sup>1)</sup>	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.....	213,042	24	0	139,660	0	1,101	117,288
2	01	Products of agriculture, hunting and related services.....	208,314	24	0	136,001	0	1,032	113,700
3	02	Products of forestry, logging and related services.....	3,159	0	0	2,527	0	63	2,462
4	03	Fish and other fishing products; aquaculture products.....	1,568	0	0	1,132	0	6	1,126
5	B	Mining and quarrying.....	69,872	2,089	12,157	5,723	0	253	4,032
6	05	Coal and lignite.....	38,846	1,439	10,008	814	0	20	646
7	06	Crude petroleum and natural gas.....	13,321	0	0	2,113	0	186	1,917
8	07-09	Metal ores, other mining and quarrying products.....	17,705	650	2,149	2,795	0	48	1,468
9	C	Manufactured products.....	8,990,350	807,570	231,371	5,631,395	3,940,328	61,775	62,191
10	10-12	Food products, beverages, tobacco products.....	225,408	3,652	4,647	19,229	0	833	5,828
11	13-15	Textiles, wearing apparel, leather and related products.....	21,216	312	0	2,148	0	111	777
12	16	Wood and products of wood and cork, except furniture.....	85,051	0	105	2,482	0	109	759
13	17	Paper and paper products.....	242,957	6,972	6,628	3,454	0	189	1,319
14	18	Printing and recording services.....	22,366	0	0	1,946	0	109	764
15	19	Coke and refined petroleum products.....	5,289,050	311,895	148,299	4,722,162	3,940,328	53,575	3,085
16	19.1	Coke oven products.....	368,613	311,895	0	31,995	0	2	15
17	19.2	Refined petroleum products.....	4,920,437	0	148,299	4,690,167	3,940,328	53,572	3,070
18	20	Chemicals and chemical products.....	1,392,443	8,439	23,186	756,077	0	599	4,206
19	21	Basic pharmaceutical products and pharmaceutical preparations.....	34,194	0	0	4,483	0	146	1,013
20	22	Rubber and plastic products.....	92,958	0	352	7,062	0	328	2,282
21	23	Other non-metallic mineral products.....	277,705	14,021	41,572	20,882	0	204	1,440
22	23.1	Glass and glass products.....	84,005	0	0	4,116	0	46	324
23	23.2-9	Refractory products, cut, shaped and finished stone.....	193,701	14,021	41,572	16,766	0	158	1,116
24	24	Basic metals.....	836,882	461,500	6,582	16,309	0	531	3,709
25	24.1-3	Basic iron and steel and ferro-alloys, other products of steel.....	723,024	452,382	6,560	10,409	0	285	1,993
26	24.4	Basic precious and other non-ferrous metals.....	70,985	1,274	22	4,235	0	176	1,224
27	24.5	Casting services of metal.....	42,873	7,844	0	1,666	0	71	493
28	25	Fabricated metal products, except machinery and equipment.....	119,023	290	0	15,868	0	779	5,512
29	26	Computer, electronic and optical products.....	31,231	0	0	4,446	0	400	2,850
30	27	Electrical equipment.....	37,827	115	0	5,027	0	448	3,118
31	28	Machinery and equipment n.e.c.....	88,691	115	0	16,901	0	1,007	7,202
32	29	Motor vehicles, trailers and semi-trailers.....	132,317	259	0	21,761	0	1,814	14,104
33	30	Other transport equipment.....	14,939	0	0	2,528	0	250	1,809
34	31-32	Furniture, other manufacture goods.....	30,418	0	0	4,827	0	154	1,099
35	33	Repair and installation services of machinery and equipment.....	15,673	0	0	3,803	0	189	1,315
36	D (35)	Electricity, gas, steam and air conditioning.....	5,828,023	1,244,709	1,515,605	75,887	0	776	6,929
37	35.1/.3	Electricity, transmission and distribution services, steam.....	5,802,743	1,244,709	1,515,605	74,841	0	671	5,991
38	35.2	Manufactured gas.....	25,280	0	0	1,046	0	104	939
39	E	Water supply; sewerage, waste management and remediation services.....	145,292	0	0	59,279	0	2,404	50,183
40	36	Natural water; water treatment and supply services.....	29,174	0	0	951	0	43	907
41	37-39	Sewerage services; waste collection and materials recovery services.....	116,118	0	0	58,328	0	2,361	49,276
42	37	Sewerage services, sewerage sludge.....	22,292	0	0	5,541	0	586	4,939
43	38-39	Waste collection, treatment and disposal services.....	93,826	0	0	52,787	0	1,775	44,338
44	F	Constructions and construction works.....	216,895	0	0	185,541	0	3,281	84,220
45	41-42	Building and building construction works.....	128,804	0	0	118,641	0	1,328	33,619
46	43	Specialised construction works.....	88,091	0	0	66,901	0	1,953	50,601
47	G	Wholesale and retail trade services; repair services of motor vehicles.....	414,472	224	0	200,939	0	13,735	106,991
48	45	Wholesale and retail trade and repair services of motor vehicles.....	69,650	77	0	42,041	0	686	9,675
49	46	Wholesale trade services, except of motor vehicles and motorcycles.....	119,340	61	0	69,637	0	3,975	57,015
50	47	Retail trade services, except of motor vehicles and motorcycles.....	225,483	85	0	89,261	0	9,073	40,301
51	H	Transportation and storage services.....	1,275,349	0	0	1,164,237	0	4,633	376,638
52	49.1-2	Passenger rail transport services, freight rail transport services.....	52,173	0	0	16,929	0	9	14,912
53	49.3-5	Other passenger land transport services, transport service via pipeline.....	226,208	0	0	198,314	0	1,859	190,427
54	50	Water transport services.....	370,581	0	0	370,498	0	9	18,262
55	51	Air transport services.....	416,047	0	0	415,950	0	506	814
56	52	Warehousing and support services for transportation.....	146,866	0	0	106,774	0	766	98,842
57	53	Postal and courier services.....	63,475	0	0	55,772	0	1,483	53,382
58	I	Accommodation and food services.....	102,124	111	0	31,998	0	1,014	2,479
59	J	Information and communication services.....	84,841	0	0	28,209	0	1,961	19,164
60	K	Financial and insurance services.....	41,451	0	0	10,979	0	788	3,440
61	L	Real estate services.....	38,345	0	0	11,759	0	1,796	8,554
62	M	Professional, scientific and technical services.....	179,001	0	0	91,909	0	13,786	65,356
63	N	Administrative and support services.....	24,830	0	0	9,312	0	658	4,718
64	O	Public administration and defence services.....	142,440	102	0	48,215	0	6,085	22,022
65	P	Education services.....	99,259	71	0	19,680	0	227	1,450
66	Q	Human health and social work services.....	167,977	134	0	33,653	0	2,867	7,157
67	R-T	Other services.....	124,735	51	0	58,753	0	3,266	40,468
68		<b>All homogeneous branches.....</b>	<b>18,158,298</b>	<b>2,055,084</b>	<b>1,759,133</b>	<b>7,807,127</b>	<b>3,940,328</b>	<b>120,408</b>	<b>983,280</b>
69		Private households (residents consumption).....	3,905,245	8,262	20,193	1,868,443	0	781,052	517,351
70		<b>All homogeneous branches and private households (residents concept) 3)</b>	<b>22,063,543</b>	<b>2,063,346</b>	<b>1,779,326</b>	<b>9,675,570</b>	<b>3,940,328</b>	<b>901,460</b>	<b>1,500,632</b>
71	+	Change in inventories.....	151,334	0	0	0	0	0	0
72	+	Losses due to flaring and distributions.....	-27,991	-13,270	-120	2,689	30,156	-2,431	389
73	+	Exports and bunkering non-residents on the territory.....	2,303,917	15,987	33,171	1,165,491	1,450	227,525	305,934
74	+	Statistical discrepancies.....	75,772	13,928	-1,002	0	0	0	0
75	=	<b>Total use (residents concept).....</b>	<b>24,566,575</b>	<b>2,079,991</b>	<b>1,811,375</b>	<b>10,843,750</b>	<b>3,971,934</b>	<b>1,126,554</b>	<b>1,806,955</b>
76		Domestic production.....	11,993,956	466,932	1,809,553	4,576,180	112,431	940,449	1,155,504
77		Imports and bunkering of residents abroad.....	12,572,620	1,613,059	1,822	6,267,570	3,859,503	186,105	651,451

<sup>1)</sup> 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 3.2.4: Transformation sectors: transformation input and output \*)

No.	Transformation sectors	2000	2005	2010	2011	2012	2013
<b>transformation input (petajoule)</b>							
1	Coking plants.....	353	326	352	342	338	349
2	Hard and brown coal briquetting plants.....	113	111	126	141	138	143
3	Heat power stations.....	3,336	3,447	3,335	3,274	3,334	3,375
4	Nuclear power stations.....	1,851	1,779	1,533	1,178	1,085	1,061
5	Water and wind power station and other plants 1).....	149	311	642	734	643	683
6	Thermal power station.....	353	540	575	539	556	540
7	Blast fumaces.....	166	167	144	165	161	165
8	Refineries.....	4,992	5,302	4,338	4,279	4,319	4,206
9	Other energy producer 2).....	305	374	413	414	285	273
10	<b>Total.....</b>	<b>11,617</b>	<b>12,357</b>	<b>11,458</b>	<b>11,066</b>	<b>10,858</b>	<b>10,796</b>
<b>transformation output (petajoule)</b>							
11	Coking plants.....	359	312	317	333	342	311
12	Hard and brown coal briquetting plants.....	111	110	129	143	140	145
13	Heat power stations.....	1,319	1,423	1,401	1,382	1,401	1,412
14	Nuclear power stations.....	611	587	506	389	358	350
15	Water and wind power station and other plants 1).....	141	224	354	421	508	537
16	Thermal power station.....	313	509	535	486	502	488
17	Blast fumaces.....	180	181	183	177	172	178
18	Refineries.....	4,958	5,235	4,307	4,245	4,279	4,171
19	Other energy producer 2).....	314	378	436	426	298	293
20	<b>Total.....</b>	<b>8,307</b>	<b>8,959</b>	<b>8,167</b>	<b>8,002</b>	<b>8,000</b>	<b>7,885</b>
<b>transformation output (as a percentage)</b>							
21	Coking plants.....	4.3	3.5	3.9	4.2	4.3	3.9
22	Hard and brown coal briquetting plants.....	1.3	1.2	1.6	1.8	1.7	1.8
23	Heat power stations.....	15.9	15.9	17.2	17.3	17.5	17.9
24	Nuclear power stations.....	7.4	6.6	6.2	4.9	4.5	4.4
25	Water and wind power station and other plants 1).....	1.7	2.5	4.3	5.3	6.4	6.8
26	Thermal power station.....	3.8	5.7	6.5	6.1	6.3	6.2
27	Blast fumaces.....	2.2	2.0	2.2	2.2	2.1	2.3
28	Refineries.....	59.7	58.4	52.7	53.1	53.5	52.9
29	Other energy producer 2).....	3.8	4.2	5.3	5.3	3.7	3.7
30	<b>Total.....</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>
<b>transformation efficiency (output/input [as a percentage])</b>							
31	Coking plants.....	101.6	95.7	90.1	97.2	101.2	89.2
32	Hard and brown coal briquetting plants.....	98.0	99.3	102.0	101.6	101.6	101.3
33	Heat power stations.....	39.5	41.3	42.0	42.2	42.0	41.8
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).....	94.7	71.9	55.1	57.4	79.0	78.6
36	Thermal power station.....	88.9	94.2	93.1	90.1	90.3	90.5
37	Blast fumaces.....	108.6	108.5	126.9	106.9	106.9	107.7
38	Refineries.....	99.3	98.7	99.3	99.2	99.1	99.2
39	Other energy producer 2).....	103.1	101.0	105.5	103.0	104.4	107.2
40	<b>Total.....</b>	<b>71.5</b>	<b>72.5</b>	<b>71.3</b>	<b>72.3</b>	<b>73.7</b>	<b>73.0</b>

\*) Source: energy balances (Arbeitsgemeinschaft Energiebilanzen, [www.ag-energiebilanzen.de](http://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	2000	2005	2010	2011	2012	2013
<b>transformation input (petajoule)</b>							
1	Public heat power stations.....	2,885	3,023	2,915	2,887	3,008	3,039
2	Industry power stations.....	451	424	420	387	326	335
3	Nuclear power stations.....	1,851	1,779	1,533	1,178	1,085	1,061
4	Hydro, wind power stations and other.....	149	311	642	734	643	683
5	Hydropower stations.....	114	105	106	92	108	111
6	Wind power stations and others 1).....	35	207	536	642	535	573
7	<b>Total.....</b>	<b>5,335</b>	<b>5,537</b>	<b>5,511</b>	<b>5,186</b>	<b>5,061</b>	<b>5,119</b>
memorandum item:							
8	Own account consumption of power stations.....	137	140	132	125	133	133
<b>gross generation of electricity (petajoule)</b>							
9	Public heat power stations.....	1,137	1,244	1,212	1,201	1,244	1,251
10	Industry power stations.....	182	179	189	181	157	161
11	Nuclear power stations.....	611	587	506	389	358	350
12	Hydro, wind power stations and other.....	141	224	354	421	508	537
13	Hydropower stations.....	106	96	98	85	100	104
14	Wind power stations and others 1).....	35	128	256	337	408	434
15	<b>Total.....</b>	<b>2,071</b>	<b>2,234</b>	<b>2,261</b>	<b>2,192</b>	<b>2,267</b>	<b>2,299</b>
<b>gross generation of electricity (as a percentage)</b>							
16	Public heat power stations.....	54.9	55.7	53.6	54.8	54.9	54.4
17	Industry power stations.....	8.8	8.0	8.4	8.3	6.9	7.0
18	Nuclear power stations.....	29.5	26.3	22.4	17.7	15.8	15.2
19	Hydro, wind power stations and other.....	6.8	10.0	15.7	19.2	22.4	23.4
20	Hydropower stations.....	5.1	4.3	4.4	3.9	4.4	4.5
21	Wind power stations and others 1).....	1.7	5.7	11.3	15.4	18.0	18.9
22	<b>Total.....</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>
<b>efficiency (gross generation/transformation input [as a percentage])</b>							
23	Public heat power stations.....	39.4	41.2	41.6	41.6	41.4	41.2
24	Industry power stations.....	40.4	42.2	45.0	46.8	48.3	48.0
25	Nuclear power stations.....	33.0	33.0	33.0	33.0	33.0	33.0
26	Hydro, wind power stations and other.....	94.7	71.9	55.1	57.4	79.0	78.6
27	Hydropower stations.....	93.1	91.8	92.5	92.3	93.3	93.4
28	Wind power stations and others 1).....	100.0	61.8	47.7	52.4	76.2	75.7
29	<b>Total.....</b>	<b>38.8</b>	<b>40.3</b>	<b>41.0</b>	<b>42.3</b>	<b>44.8</b>	<b>44.9</b>
<b>efficiency (gross generation/transformation input [2005 = 100])</b>							
30	Public heat power stations.....	95.7	100	101.0	101.1	100.5	100.0
31	Industry power stations.....	95.7	100	106.5	110.7	114.5	113.7
32	Nuclear power stations.....	100.0	100	100.0	100.0	100.0	100.0
33	Wind power stations and others 1).....	131.8	100	76.7	79.9	110.0	109.3
34	<b>Total.....</b>	<b>101.4</b>	<b>100</b>	<b>100.8</b>	<b>100.6</b>	<b>101.7</b>	<b>101.8</b>

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	2000	2005	2010	2011	2012	2013
<b>transformation input (petajoule)</b>							
1	Hydro, wind, solar power and other 1).....	149	311	642	734	643	683
2	Nuclear power .....	1,851	1,779	1,533	1,178	1,085	1,061
3	Hard coal.....	1,268	1,161	1,012	961	1,007	1,115
4	Brown coal (lignite).....	1,420	1,458	1,364	1,410	1,495	1,473
5	Natural gas.....	391	497	576	538	466	398
6	Mineral oil products.....	82	103	72	61	55	59
7	Other energy sources.....	175	227	311	304	311	330
8	<b>Total.....</b>	<b>5,335</b>	<b>5,537</b>	<b>5,511</b>	<b>5,186</b>	<b>5,061</b>	<b>5,119</b>
<b>gross generation of electricity (petajoule)</b>							
9	Hydro, wind, solar power and other 1).....	141	224	354	421	508	537
10	Nuclear power .....	611	587	506	389	358	350
11	Hard coal.....	515	483	421	405	419	438
12	Brown coal (lignite).....	534	555	525	540	579	579
13	Natural gas.....	177	256	312	297	275	243
14	Mineral oil products.....	19	42	30	24	27	26
15	Other energy sources.....	74	89	112	115	101	126
16	<b>Total.....</b>	<b>2,071</b>	<b>2,234</b>	<b>2,261</b>	<b>2,192</b>	<b>2,267</b>	<b>2,299</b>
<b>gross generation of electricity (as a percentage of total output)</b>							
17	Hydro, wind, solar power and other 1).....	6.8	10.0	15.7	19.2	22.4	23.4
18	Nuclear power .....	29.5	26.3	22.4	17.7	15.8	15.2
19	Hard coal.....	24.9	21.6	18.6	18.5	18.5	19.1
20	Brown coal (lignite).....	25.8	24.8	23.2	24.7	25.5	25.2
21	Natural gas.....	8.6	11.4	13.8	13.5	12.1	10.6
22	Mineral oil products.....	0.9	1.9	1.3	1.1	1.2	1.1
23	Other energy sources.....	3.6	4.0	5.0	5.3	4.5	5.5
24	<b>Total.....</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>
<b>efficiency (gross generation/transformation input [as a percentage])</b>							
25	Hydro, wind, solar power and other 1).....	94.7	71.9	55.1	57.4	79.0	78.6
26	Nuclear power .....	33.0	33.0	33.0	33.0	33.0	33.0
27	Hard coal.....	40.6	41.6	41.6	42.1	41.6	39.3
28	Brown coal (lignite).....	37.6	38.1	38.5	38.3	38.7	39.3
29	Natural gas.....	45.3	51.4	54.3	55.2	59.0	61.1
30	Mineral oil products.....	22.7	40.3	41.8	40.2	50.0	43.8
31	Other energy sources.....	42.5	38.9	36.0	38.0	32.6	38.1
32	<b>Total.....</b>	<b>38.8</b>	<b>40.3</b>	<b>41.0</b>	<b>42.3</b>	<b>44.8</b>	<b>44.9</b>

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

Table 3.3.1: Consumption of primary energy <sup>\*)</sup>- transformation losses and internal use of energy of electrical power stations and heat plants allocated to final users of electricity and heat -  
terajoule

No.	CPA <sup>1)</sup>	Homogeneous branches	2000	2005	2010	2011	2012	2013
1	A	Products of agriculture, forestry and fishing.....	206,927	202,167	219,486	215,626	239,566	249,099
2	01	Products of agriculture, hunting and related services.....	200,303	196,170	213,013	209,460	233,417	242,765
3	02	Products of forestry, logging and related services.....	3,495	3,351	3,828	3,812	3,795	4,088
4	03	Fish and other fishing products; aquaculture products.....	3,128	2,646	2,645	2,353	2,354	2,246
5	B	Mining and quarrying.....	103,645	103,354	97,912	114,635	79,816	79,904
6	05	Coal and lignite.....	43,988	51,963	51,343	72,368	40,721	38,846
7	06	Crude petroleum and natural gas.....	23,675	17,087	12,574	13,121	12,787	13,321
8	07-09	Metal ores, other mining and quarrying products.....	35,983	34,304	33,995	29,146	26,309	27,737
9	C	Manufactured products.....	5,296,536	5,565,726	5,369,092	5,354,392	5,192,525	5,223,862
10	10-12	Food products, beverages, tobacco products.....	339,197	347,564	348,432	337,287	337,966	336,963
11	13-15	Textiles, wearing apparel, leather and related products.....	90,176	80,208	64,303	64,904	63,662	59,405
12	16	Wood and products of wood and cork, except furniture.....	66,998	87,013	99,020	106,773	81,831	96,416
13	17	Paper and paper products.....	309,947	451,249	385,740	366,869	347,690	358,367
14	18	Printing and recording services.....	51,718	49,581	45,618	45,093	46,132	43,927
15	19	Coke and refined petroleum products.....	357,921	434,363	347,411	341,173	328,693	369,356
16	19.1	Coke oven products.....	53,651	50,253	69,734	42,896	33,126	62,273
17	19.2	Refined petroleum products.....	304,270	384,110	277,677	298,277	295,567	307,083
18	20	Chemicals and chemical products.....	1,573,801	1,684,903	1,712,485	1,710,032	1,665,251	1,651,802
19	21	Basic pharmaceutical products and pharmaceutical preparations.....	135,647	92,690	84,782	83,694	79,704	79,084
20	22	Rubber and plastic products.....	170,099	182,239	197,714	184,728	179,381	181,255
21	23	Other non-metallic mineral products.....	404,753	338,807	359,836	370,878	350,231	348,336
22	23.1	Glass and glass products.....	137,712	120,728	120,023	120,674	110,353	112,223
23	23.2-9	Refractory products, cut, shaped and finished stone.....	267,040	218,078	239,813	250,203	239,878	236,113
24	24	Basic metals.....	1,047,116	1,001,853	933,040	960,477	939,218	905,343
25	24.1-3	Basic iron and steel and ferro-alloys, other products of steel.....	771,187	710,816	696,518	731,731	725,731	696,116
26	24.4	Basic precious and other non-ferrous metals.....	215,577	227,498	178,148	170,926	158,800	159,586
27	24.5	Casting services of metal.....	60,352	63,540	58,374	57,820	54,687	49,642
28	25	Fabricated metal products, except machinery and equipment.....	156,687	169,022	175,952	178,019	172,605	187,644
29	26	Computer, electronic and optical products.....	61,978	55,933	50,629	50,927	51,475	50,564
30	27	Electrical equipment.....	81,373	83,140	78,684	80,797	78,244	77,469
31	28	Machinery and equipment n.e.c.....	153,059	158,866	164,183	159,274	157,899	155,526
32	29	Motor vehicles, trailers and semi-trailers.....	219,066	249,569	224,387	220,035	217,347	223,581
33	30	Other transport equipment.....	30,229	32,931	30,849	28,286	28,441	30,006
34	31-32	Furniture, other manufacture goods.....	40,348	41,399	44,862	43,100	44,402	46,418
35	33	Repair and installation services of machinery and equipment.....	6,422	24,395	21,164	22,047	22,352	22,400
36	D (35)	Electricity, gas, steam and air conditioning.....	23,322	69,720	73,776	67,030	70,886	48,722
37	35.1/.3	Electricity, transmission and distribution services, steam.....	3,944	18,886	27,650	27,804	31,963	10,642
38	35.2	Manufactured gas.....	19,378	50,833	46,126	39,226	38,923	38,080
39	E	Water supply; sewerage, waste management and remediation services.....	237,303	193,343	211,510	197,226	187,739	218,843
40	36	Natural water; water treatment and supply services.....	86,086	78,151	87,671	80,313	75,798	73,322
41	37-39	Sewerage services; waste collection and materials recovery services.....	151,217	115,192	123,839	116,913	111,941	145,521
42	37	Sewerage services, sewerage sludge.....	54,162	46,626	51,210	48,113	46,723	48,093
43	38-39	Waste collection, treatment and disposal services.....	97,055	68,566	72,629	68,800	65,218	97,428
44	F	Constructions and construction works.....	315,590	252,270	247,479	260,115	235,015	236,992
45	41-42	Building and building construction works.....	221,375	169,645	154,065	164,875	138,275	136,166
46	43	Specialised construction works.....	94,216	82,625	93,413	95,240	96,740	100,826
47	G	Wholesale and retail trade services; repair services of motor vehicles.....	704,060	632,577	625,405	582,283	583,212	597,110
48	45	Wholesale and retail trade and repair services of motor vehicles.....	106,812	84,592	89,188	82,740	87,594	89,716
49	46	Wholesale trade services, except of motor vehicles and motorcycles.....	200,849	189,172	170,049	160,640	161,726	166,282
50	47	Retail trade services, except of motor vehicles and motorcycles.....	396,399	358,813	366,168	338,904	333,892	341,111
51	H	Transportation and storage services.....	1,025,499	1,330,835	1,462,411	1,370,415	1,383,471	1,381,924
52	49.1-2	Passenger rail transport services, freight rail transport services.....	161,501	154,150	149,211	142,749	106,094	105,404
53	49.3-5	Other passenger land transport services, transport service via pipeline.....	189,979	216,596	260,823	261,186	244,435	244,367
54	50	Water transport services.....	61,087	289,402	382,704	327,539	373,815	370,581
55	51	Air transport services.....	379,082	436,720	418,066	398,008	418,495	416,047
56	52	Warehousing and support services for transportation.....	179,347	181,074	185,698	175,930	175,476	179,527
57	53	Postal and courier services.....	54,502	52,893	65,909	65,002	65,157	65,998
58	I	Accommodation and food services.....	187,672	194,017	187,326	169,637	162,542	166,388
59	J	Information and communication services.....	153,230	156,513	154,569	143,693	139,272	142,292
60	K	Financial and insurance services.....	78,587	71,707	64,713	57,321	55,864	59,132
61	L	Real estate services.....	73,375	67,745	72,104	66,215	69,390	73,962
62	M	Professional, scientific and technical services.....	178,549	207,096	231,950	214,926	213,740	218,102
63	N	Administrative and support services.....	27,639	32,588	35,053	33,084	32,759	35,820
64	O	Public administration and defence services.....	238,254	211,968	220,772	198,166	185,685	198,242
65	P	Education services.....	148,364	159,717	157,459	132,163	120,537	132,600
66	Q	Human health and social work services.....	219,838	249,226	261,974	242,096	230,347	247,212
67	R-T	Other services.....	250,932	222,511	202,263	174,098	166,997	173,072
68		<b>All homogeneous branches.....</b>	<b>9,469,323</b>	<b>9,923,080</b>	<b>9,895,252</b>	<b>9,593,122</b>	<b>9,349,363</b>	<b>9,483,277</b>
69		Private households (residents consumption).....	4,821,034	4,898,153	4,921,495	4,517,817	4,543,489	4,695,147
70		<b>All homogeneous branches and private households (residents concept).....</b>	<b>14,290,356</b>	<b>14,821,233</b>	<b>14,816,748</b>	<b>14,110,939</b>	<b>13,892,852</b>	<b>14,178,424</b>
71		Balance of bunkering <sup>2)</sup> .....	-112,792	-537,976	-636,613	-580,987	-617,477	-583,922
72		Statistical discrepancies <sup>3)</sup> .....	52,406	99,327	-115,310	-78,648	22,518	75,773
73		Losses due to flaring and distributions <sup>4)</sup> .....	170,832	175,774	151,931	148,031	149,165	151,334
74		<b>All homogeneous branches and private households (domestic concept) <sup>5)</sup>.....</b>	<b>14,400,803</b>	<b>14,558,358</b>	<b>14,216,756</b>	<b>13,599,335</b>	<b>13,447,057</b>	<b>13,821,610</b>

\*) Allocation of transformation losses and internal consumption of power stations and heat plants 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 to 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<sup>\*)</sup>**

- energy consumption including transformation losses and internal use of energy sectors -  
Energy consumption per gross value added (price-adjusted) (2005 = 100)

No.	CPA <sup>1)</sup>	Homogeneous branches	2000	2005	2010	2011	2012
1	A	Products of agriculture, forestry and fishing.....	76.8	100	107.5	93.1	110.0
2	B	Mining and quarrying.....	77.2	100	84.3	94.9	65.0
3	C	Manufactured products.....	95.6	100	91.6	86.3	83.7
4	D (35)	Electricity, gas, steam and air conditioning.....	38.4	100	109.0	103.8	104.8
5	E	Water supply; sewerage, waste management and remediation services.....	135.4	100	102.2	91.4	83.8
6	F	Constructions and construction works.....	99.1	100	81.8	81.6	72.0
7	G	Wholesale and retail trade services; repair services of motor vehicles.....	119.6	100	99.0	86.2	88.2
8	H	Transportation and storage services.....	105.0	100	96.6	93.3	87.1
9	I	Accommodation and food services.....	93.4	100	94.0	81.2	77.5
10	J	Information and communication services.....	103.7	100	100.5	80.8	69.4
11	K	Financial and insurance services.....	135.6	100	97.8	94.7	92.1
12	L	Real estate services.....	115.4	100	97.2	86.6	98.2
13	M	Professional, scientific and technical services.....	86.5	100	106.7	97.7	94.9
14	N	Administrative and support services.....	94.7	100	97.6	89.0	89.6
15	O	Public administration and defence services.....	112.3	100	97.0	88.2	83.5
16	P	Education services.....	97.3	100	91.6	74.9	69.0
17	Q	Human health and social work services.....	97.7	100	92.7	81.6	80.0
18	R-T	Other services.....	118.3	100	88.0	70.9	72.0
19		<b>All homogeneous branches.....</b>	<b>101.6</b>	<b>100</b>	<b>93.6</b>	<b>87.8</b>	<b>84.6</b>

<sup>\*)</sup> 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**

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No.	Specification	Electricity	Remote heating	Total	All energy sources
<b>2000</b>					
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	= <b>Transformation losses of power stations.....</b>	<b>3,264,228</b>	<b>39,116</b>	<b>3,303,344</b>	<b>3,309,958</b>
4	+ <b>Internal consumption of power stations.....</b>	<b>136,796</b>	<b>0</b>	<b>136,796</b>	<b>565,242</b>
5	= <b>Total.....</b>	<b>3,401,024</b>	<b>39,116</b>	<b>3,440,140</b>	<b>3,875,200</b>
6	<b>Manufacturing</b>				
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	<b>Small consumers (agriculture, trade and services)</b>				
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	<b>Transport</b>				
15	+ Final energy consumption (EB) .....	57,276	0	57,276	2,751,332
16	+ Share power station losses / internal consumption.....	109,460	0	109,460	109,460
17	= Primary energy consumption.....	166,736	0	166,736	2,860,792
18	<b>Private households</b>				
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	<b>Final energy total.....</b>				
23	+ <b>Final energy consumption (EB) .....</b>	<b>1,779,611</b>	<b>264,730</b>	<b>2,044,341</b>	<b>9,234,576</b>
24	+ <b>Share power station losses / internal consumption.....</b>	<b>3,401,024</b>	<b>39,116</b>	<b>3,440,140</b>	<b>3,440,140</b>
25	= <b>Primary energy consumption.....</b>	<b>5,180,635</b>	<b>303,846</b>	<b>5,484,481</b>	<b>12,674,716</b>
<b>2005</b>					
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	= <b>Transformation losses of power stations.....</b>	<b>3,302,735</b>	<b>31,135</b>	<b>3,333,870</b>	<b>3,398,103</b>
29	+ <b>Internal consumption of power stations.....</b>	<b>140,454</b>	<b>0</b>	<b>140,454</b>	<b>611,123</b>
30	= <b>Total.....</b>	<b>3,443,189</b>	<b>31,135</b>	<b>3,474,324</b>	<b>4,009,226</b>
31	<b>Manufacturing</b>				
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	<b>Small consumers (agriculture, trade and services)</b>				
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	<b>Transport</b>				
40	+ Final energy consumption (EB) .....	58,320	0	58,320	2,586,164
41	+ Share power station losses / internal consumption.....	107,753	0	107,753	107,753
42	= Primary energy consumption.....	166,073	0	166,073	2,693,917
43	<b>Private households</b>				
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	<b>Final energy total.....</b>				
48	+ <b>Final energy consumption (EB) .....</b>	<b>1,863,580</b>	<b>450,317</b>	<b>2,313,897</b>	<b>9,159,677</b>
49	+ <b>Share power station losses / internal consumption.....</b>	<b>3,443,189</b>	<b>31,135</b>	<b>3,474,324</b>	<b>3,474,324</b>
50	= <b>Primary energy consumption.....</b>	<b>5,306,768</b>	<b>481,453</b>	<b>5,788,221</b>	<b>12,634,001</b>

1) EB = Original data from energy balance.

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

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No.	Specification	Electricity	Remote heating	Total	All energy sources
<b>2010</b>					
51	+ Transformation input of power stations.....	5,510,588	574,518	6,085,106	11,458,110
52	- Transformation output of power stations.....	2,261,168	534,604	2,795,772	8,167,267
53	= Transformation losses of power stations.....	<b>3,249,420</b>	<b>39,914</b>	<b>3,289,334</b>	<b>3,290,843</b>
54	+ Internal consumption of power stations.....	132,250	0	132,250	545,558
55	= Total.....	<b>2,415,770</b>	<b>159,744</b>	<b>3,421,584</b>	<b>3,836,401</b>
56	<b>Manufacturing</b>				
57	+ Final energy consumption (EB) 1).....	798,811	145,858	944,669	2,592,242
58	+ Share power station losses / internal consumption.....	1,422,831	12,337	1,435,169	1,435,169
59	= Primary energy consumption.....	2,221,643	158,195	2,379,839	4,027,410
60	<b>Small consumers (agriculture, trade and services)</b>				
61	+ Final energy consumption (EB) .....	529,499	136,631	666,130	1,482,507
62	+ Share power station losses / internal consumption.....	943,135	11,556	954,692	954,692
63	= Primary energy consumption.....	1,472,634	148,187	1,620,822	2,437,199
64	<b>Transport</b>				
65	+ Final energy consumption (EB) .....	60,120	0	60,120	2,559,299
66	+ Share power station losses / internal consumption.....	107,085	0	107,085	107,085
67	= Primary energy consumption.....	167,205	0	167,205	2,666,384
68	<b>Private households</b>				
69	+ Final energy consumption (EB) .....	510,120	189,416	699,536	2,675,664
70	+ Share power station losses / internal consumption.....	908,618	16,021	924,639	924,639
71	= Primary energy consumption.....	1,418,738	205,437	1,624,175	3,600,303
72	<b>Final energy total.....</b>				
73	+ Final energy consumption (EB) .....	<b>1,898,550</b>	<b>471,905</b>	<b>2,370,455</b>	<b>9,309,712</b>
74	+ Share power station losses / internal consumption.....	<b>3,381,669</b>	<b>39,915</b>	<b>3,421,584</b>	<b>3,421,584</b>
75	= Primary energy consumption.....	<b>5,280,220</b>	<b>511,820</b>	<b>5,792,039</b>	<b>12,731,296</b>
<b>2013</b>					
76	+ Transformation input of power stations.....	5,119,467	539,833	5,659,299	10,795,826
77	- Transformation output of power stations.....	2,299,421	488,329	2,787,750	7,885,119
78	= Transformation losses of power stations.....	<b>2,820,046</b>	<b>51,504</b>	<b>2,871,549</b>	<b>2,910,707</b>
79	+ Internal consumption of power stations.....	132,804	0	132,804	533,328
80	= Total.....	<b>2,247,487</b>	<b>75,156</b>	<b>3,004,353</b>	<b>3,444,035</b>
81	<b>Manufacturing</b>				
82	+ Final energy consumption (EB) 1).....	807,369	189,589	996,958	2,550,671
83	+ Share power station losses / internal consumption.....	1,265,682	22,456	1,288,138	1,288,138
84	= Primary energy consumption.....	2,073,051	212,045	2,285,096	3,838,809
85	<b>Small consumers (agriculture, trade and services)</b>				
86	+ Final energy consumption (EB) .....	543,485	60,762	604,247	1,460,322
87	+ Share power station losses / internal consumption.....	852,001	7,197	859,198	859,198
88	= Primary energy consumption.....	1,395,486	67,959	1,463,445	2,319,520
89	<b>Transport</b>				
90	+ Final energy consumption (EB) .....	42,786	0	42,786	2,611,564
91	+ Share power station losses / internal consumption.....	67,074	0	67,074	67,074
92	= Primary energy consumption.....	109,860	0	109,860	2,678,638
93	<b>Private households</b>				
94	+ Final energy consumption (EB) .....	489,600	184,486	674,086	2,555,970
95	+ Share power station losses / internal consumption.....	767,528	21,851	789,379	789,379
96	= Primary energy consumption.....	1,257,128	206,337	1,463,465	3,345,349
97	<b>Final energy total.....</b>				
98	+ Final energy consumption (EB) .....	<b>1,883,240</b>	<b>434,837</b>	<b>2,318,077</b>	<b>9,178,527</b>
99	+ Share power station losses / internal consumption.....	<b>2,952,285</b>	<b>51,504</b>	<b>3,003,789</b>	<b>3,003,789</b>
100	= Primary energy consumption.....	<b>4,835,525</b>	<b>486,341</b>	<b>5,321,866</b>	<b>12,182,316</b>

1) EB = Original data from energy balance.

**Table 3.3.3.2: Allocation of transformation losses and internal consumption of power stations to users**  
 Difference table (table 3.3.1 - 3.3.4)  
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No.	CPA <sup>1)</sup>	Homogeneous branches	2000	2005	2010	2011	2012	2013
1	A	Products of agriculture, forestry and fishing.....	37,091	37,339	37,009	33,994	34,188	36,057
2	01	Products of agriculture, hunting and related services.....	35,035	35,613	35,108	32,444	32,674	34,451
3	02	Products of forestry, logging and related services.....	1,094	863	950	775	757	929
4	03	Fish and other fishing products; aquaculture products.....	963	863	950	775	757	678
5	B	Mining and quarrying.....	13,309	13,055	13,778	11,460	10,153	10,032
6	05	Coal and lignite.....	0	0	0	0	0	0
7	06	Crude petroleum and natural gas.....	3	3	0	0	0	0
8	07-09	Metal ores, other mining and quarrying products.....	13,306	13,052	13,778	11,460	10,153	10,032
9	C	Manufactured products.....	1,490,124	1,572,798	1,476,884	1,418,172	1,333,327	1,330,881
10	10-12	Food products, beverages, tobacco products.....	117,077	123,394	120,817	114,655	111,344	111,554
11	13-15	Textiles, wearing apparel, leather and related products.....	40,131	41,279	37,624	39,646	41,103	38,189
12	16	Wood and products of wood and cork, except furniture.....	23,121	21,513	13,923	16,593	14,916	11,366
13	17	Paper and paper products.....	129,124	145,990	136,759	127,544	117,913	115,410
14	18	Printing and recording services.....	23,640	16,746	21,764	22,589	19,102	21,561
15	19	Coke and refined petroleum products.....	0	0	0	0	0	0
16	19.1	Coke oven products.....	0	0	0	0	0	0
17	19.2	Refined petroleum products.....	0	0	0	0	0	0
18	20	Chemicals and chemical products.....	257,005	285,913	274,345	260,583	246,074	259,359
19	21	Basic pharmaceutical products and pharmaceutical preparations.....	80,265	64,060	60,644	58,388	58,297	44,891
20	22	Rubber and plastic products.....	88,593	93,775	99,527	92,983	87,699	88,296
21	23	Other non-metallic mineral products.....	93,196	84,268	80,122	78,789	70,317	70,631
22	23.1	Glass and glass products.....	37,446	32,705	32,290	30,759	27,270	28,218
23	23.2-9	Refractory products, cut, shaped and finished stone.....	55,749	51,563	47,832	48,030	43,047	42,413
24	24	Basic metals.....	298,850	318,110	279,994	269,087	248,045	246,137
25	24.1-3	Basic iron and steel and ferro-alloys, other products of steel.....	158,933	166,163	168,180	164,018	153,548	150,767
26	24.4	Basic precious and other non-ferrous metals.....	117,332	134,911	100,559	97,256	88,348	88,601
27	24.5	Casting services of metal.....	22,585	17,036	11,256	7,813	6,150	6,769
28	25	Fabricated metal products, except machinery and equipment.....	62,776	64,184	68,672	67,927	62,824	68,620
29	26	Computer, electronic and optical products.....	26,642	25,992	23,942	21,065	20,628	19,333
30	27	Electrical equipment.....	45,848	49,651	46,070	44,016	43,210	39,641
31	28	Machinery and equipment n.e.c.....	67,123	69,142	73,265	70,992	67,359	66,835
32	29	Motor vehicles, trailers and semi-trailers.....	104,453	119,326	100,733	96,125	88,920	91,264
33	30	Other transport equipment.....	13,586	12,200	15,602	14,791	14,501	15,067
34	31-32	Furniture, other manufacture goods.....	23,433	23,888	17,356	15,544	14,872	16,000
35	33	Repair and installation services of machinery and equipment.....	-4,738	13,365	5,723	6,858	6,203	6,727
36	D (35)	Electricity, gas, steam and air conditioning.....	-3,430,939	-3,462,879	-3,409,264	-3,161,071	-2,968,829	-2,991,551
37	35.1/.3	Electricity, transmission and distribution services, steam.....	-3,440,140	-3,474,324	-3,421,584	-3,172,550	-2,981,304	-3,004,351
38	35.2	Manufactured gas.....	9,201	11,445	12,320	11,480	12,475	12,800
39	E	Water supply; sewerage, waste management and remediation services...	89,772	78,370	87,792	79,079	73,998	73,551
40	36	Natural water; water treatment and supply services.....	57,272	50,346	55,440	49,506	45,522	44,148
41	37-39	Sewerage services; waste collection and materials recovery services....	32,500	28,025	32,352	29,573	28,476	29,403
42	37	Sewerage services, sewerage sludge.....	30,273	26,321	28,829	26,374	24,948	25,801
43	38-39	Waste collection, treatment and disposal services.....	2,228	1,703	3,523	3,198	3,528	3,602
44	F	Constructions and construction works.....	20,179	20,822	20,805	18,832	19,772	20,097
45	41-42	Building and building construction works.....	9,799	9,395	7,894	6,940	7,220	7,362
46	43	Specialised construction works.....	10,380	11,427	12,911	11,892	12,552	12,735
47	G	Wholesale and retail trade services; repair services of motor vehicles.....	224,510	197,238	205,169	182,297	181,583	182,638
48	45	Wholesale and retail trade and repair services of motor vehicles.....	24,631	18,336	19,981	17,713	19,851	20,067
49	46	Wholesale trade services, except of motor vehicles and motorcycles....	57,414	54,923	52,959	45,734	46,463	46,942
50	47	Retail trade services, except of motor vehicles and motorcycles.....	142,465	123,979	132,229	118,850	115,269	115,628
51	H	Transportation and storage services.....	147,289	143,400	152,342	136,573	106,712	106,575
52	49.1-2	Passenger rail transport services, freight rail transport services.....	83,972	83,250	83,155	76,989	53,501	53,231
53	49.3-5	Other passenger land transport services, transport service via pipeline..	29,877	28,954	28,845	26,745	18,337	18,159
54	50	Water transport services.....	0	0	0	0	0	0
55	51	Air transport services.....	0	0	0	0	0	0
56	52	Warehousing and support services for transportation.....	29,137	28,116	37,507	30,726	32,389	32,662
57	53	Postal and courier services.....	4,303	3,079	2,836	2,113	2,485	2,523
58	I	Accommodation and food services.....	77,716	73,765	77,875	68,517	64,556	64,263
59	J	Information and communication services.....	55,908	53,424	65,629	59,767	56,977	57,451
60	K	Financial and insurance services.....	28,863	23,220	19,762	17,898	16,731	17,681
61	L	Real estate services.....	41,224	32,795	35,645	31,648	32,775	35,617
62	M	Professional, scientific and technical services.....	38,247	39,331	44,886	39,751	38,962	39,101
63	N	Administrative and support services.....	7,031	6,657	10,008	9,295	9,625	10,990
64	O	Public administration and defence services.....	71,531	56,728	61,136	55,890	51,417	55,802
65	P	Education services.....	36,894	29,955	36,618	31,398	30,786	33,341
66	Q	Human health and social work services.....	72,457	73,643	81,335	78,842	72,684	79,235
67	R-T	Other services.....	61,543	59,867	57,952	49,294	46,771	48,337
68		<b>All homogeneous branches.....</b>	<b>917,253</b>	<b>950,473</b>	<b>924,639</b>	<b>838,364</b>	<b>787,814</b>	<b>789,902</b>
69		Private households (residents consumption).....	1	0	1	0	0	0

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



**Table 3.3.5: Intensity of primary energy consumption - transformation losses not allocated<sup>\*)</sup>**

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

No.	CPA <sup>1)</sup>	Homogeneous branches	2000	2005	2010	2011	2012
1	A	Products of agriculture, forestry and fishing.....	77.3	100	109.6	96.6	115.9
2	B	Mining and quarrying.....	77.0	100	82.9	97.7	65.0
3	C	Manufactured products.....	95.8	100	92.6	88.5	86.8
4	D (35)	Electricity, gas, steam and air conditioning.....	112.2	100	101.6	98.2	88.1
5	E	Water supply; sewerage, waste management and remediation services.....	143.1	100	100.5	91.7	86.1
6	F	Constructions and construction works.....	101.3	100	81.6	82.4	71.6
7	G	Wholesale and retail trade services; repair services of motor vehicles.....	119.4	100	96.6	85.7	88.6
8	H	Transportation and storage services.....	103.7	100	96.6	94.2	90.6
9	I	Accommodation and food services.....	89.4	100	88.6	77.7	74.0
10	J	Information and communication services.....	101.0	100	85.8	71.8	64.5
11	K	Financial and insurance services.....	128.3	100	100.4	95.9	94.7
12	L	Real estate services.....	100.1	100	95.3	87.3	98.8
13	M	Professional, scientific and technical services.....	84.2	100	107.7	98.9	96.0
14	N	Administrative and support services.....	89.1	100	87.6	80.1	78.2
15	O	Public administration and defence services.....	108.3	100	95.7	85.7	81.0
16	P	Education services.....	90.5	100	86.5	70.1	62.3
17	Q	Human health and social work services.....	93.7	100	90.7	78.8	76.3
18	R-T	Other services.....	111.4	100	85.8	71.1	70.6
		<b>All homogeneous branches.....</b>	<b>101.5</b>	<b>100</b>	<b>93.5</b>	<b>87.1</b>	<b>83.8</b>

<sup>\*)</sup> 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.

<sup>1)</sup> 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<sup>\*)</sup>**  
(temperature adjusted)

No.	Usages	Unit	2000	2005	2010	2011	2012	2013
<b>mineral oil</b>								
1	Room heating.....	petajoule	770	570	452	417	376	398
2	Hot water 1).....	petajoule	68	56	55	55	57	58
3	Other process heat 2).....	petajoule	0	0	0	0	0	0
4	Mechanical energy 3).....	petajoule	2	3	3	4	4	4
5	Lighting.....	petajoule	0	0	0	0	0	0
6	Total.....	petajoule	<b>841</b>	<b>629</b>	<b>510</b>	<b>476</b>	<b>437</b>	<b>460</b>
<b>natural gas</b>								
7	Room heating.....	petajoule	933	840	760	761	770	778
8	Hot water 1).....	petajoule	127	145	160	164	163	163
9	Other process heat 2).....	petajoule	10	7	3	3	4	4
10	Total.....	petajoule	<b>1,069</b>	<b>992</b>	<b>923</b>	<b>929</b>	<b>936</b>	<b>944</b>
<b>electricity</b>								
11	Room heating.....	petajoule	79	69	42	44	39	38
12	Hot water 1).....	petajoule	61	62	63	62	61	59
13	Other process heat 2).....	petajoule	113	132	140	137	141	140
14	Mechanical energy 3).....	petajoule	183	199	212	207	206	205
15	Lighting.....	petajoule	42	45	46	45	46	46
16	Total.....	petajoule	<b>477</b>	<b>507</b>	<b>504</b>	<b>495</b>	<b>493</b>	<b>487</b>
<b>remote heating</b>								
17	Room heating.....	petajoule	131	138	151	163	156	161
18	Hot water 1).....	petajoule	12	12	15	14	14	14
19	Total.....	petajoule	<b>143</b>	<b>151</b>	<b>166</b>	<b>177</b>	<b>170</b>	<b>175</b>
<b>coal</b>								
20	Room heating.....	petajoule	49	29	43	59	29	25
21	Hot water 1).....	petajoule	4	2	3	3	2	2
22	Total.....	petajoule	<b>53</b>	<b>32</b>	<b>47</b>	<b>63</b>	<b>31</b>	<b>27</b>
<b>other</b>								
23	Room heating.....	petajoule	168	178	258	283	266	287
24	Hot water 1).....	petajoule	6	8	10	10	8	9
25	Other process heat 2).....	petajoule	6	5	7	6	6	7
28	Total.....	petajoule	<b>180</b>	<b>192</b>	<b>276</b>	<b>299</b>	<b>281</b>	<b>302</b>
<b>total</b>								
29	Room heating.....	petajoule	2,129	1,824	1,707	1,726	1,636	1,687
30	Hot water 1).....	petajoule	278	286	306	309	305	303
31	Other process heat 2).....	petajoule	129	145	150	147	151	150
32	Mechanical energy 3).....	petajoule	186	202	215	211	210	208
33	Lighting.....	petajoule	42	45	46	45	46	46
34	Total.....	petajoule	<b>2,763</b>	<b>2,501</b>	<b>2,425</b>	<b>2,438</b>	<b>2,348</b>	<b>2,395</b>
<b>percentage of total</b>								
35	Room heating.....	%	77.0	72.9	70.4	70.8	69.7	70.4
36	Hot water 1).....	%	10.1	11.4	12.6	12.7	13.0	12.7
37	Other process heat 2).....	%	4.7	5.8	6.2	6.0	6.4	6.3
38	Mechanical energy 3).....	%	6.7	8.1	8.9	8.7	9.0	8.7
39	Lighting.....	%	1.5	1.8	1.9	1.9	2.0	1.9
40	Total.....	%	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>

<sup>\*)</sup> 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), 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.

Table 3.3.6.2: Energy consumption of private households for housing (temperature adjusted)<sup>\*)</sup>

No.	Energy sources and usages	Unit	2000	2005	2010	2011	2012	2013
<b>By energy sources</b>								
1	Mineral oil.....	petajoule	841	629	510	476	437	460
2	Gas.....	petajoule	1,069	992	923	929	936	944
3	Electricity.....	petajoule	477	507	504	495	493	487
4	Remote heating.....	petajoule	143	151	166	177	170	175
5	Coal.....	petajoule	53	32	47	63	31	27
6	Other .....	petajoule	180	192	276	299	281	302
7	Total.....	petajoule	2,763	2,501	2,425	2,438	2,348	2,395
<b>By use areas</b>								
8	Room heating.....	petajoule	2,129	1,824	1,707	1,726	1,636	1,687
9	Hot water 1).....	petajoule	278	286	306	309	305	303
10	Other process heat 2).....	petajoule	129	145	150	147	151	150
11	Mechanical energy 3).....	petajoule	186	202	215	211	210	208
12	Lighting.....	petajoule	42	45	46	45	46	46
13	Total.....	petajoule	2,763	2,501	2,425	2,438	2,348	2,395
14	memorandum item: not-temperature adjusted 4).....	petajoule	2,520	2,534	2,636	2,303	2,397	2,526
<b>index (base year = 100)</b>								
<b>By energy sources</b>								
15	Mineral oil.....	2005=100	134	100	81	76	69	73
16	Gas.....	2005=100	108	100	93	94	94	95
17	Electricity.....	2005=100	94	100	99	98	97	96
18	Remote heating.....	2005=100	95	100	110	118	113	116
<b>By use areas</b>								
22	Room heating.....	2005=100	117	100	94	95	90	92
23	Hot water 1).....	2005=100	97	100	107	108	107	106
24	Other process heat 2).....	2005=100	89	100	104	101	104	104
28	memorandum item: not-temperature adjusted 4).....	2005=100	99	100	104	91	95	100
<b>percentage of total</b>								
<b>By energy sources</b>								
29	Mineral oil.....	%	30.4	25.1	21.0	19.5	18.6	19.2
30	Gas.....	%	38.7	39.7	38.1	38.1	39.9	39.4
31	Electricity.....	%	17.3	20.3	20.8	20.3	21.0	20.3
32	Remote heating.....	%	5.2	6.0	6.8	7.3	7.2	7.3
33	Coal.....	%	1.9	1.3	1.9	2.6	1.3	1.1
34	Other .....	%	6.5	7.7	11.4	12.3	12.0	12.6
35	Total.....	%	100	100	100	100	100	100
<b>By use areas</b>								
36	Room heating.....	%	77.0	72.9	70.4	70.8	69.7	70.4
37	Hot water 1).....	%	10.1	11.4	12.6	12.7	13.0	12.7
38	Other process heat 2).....	%	4.7	5.8	6.2	6.0	6.4	6.3
39	Mechanical energy 3).....	%	6.7	8.1	8.9	8.7	9.0	8.7
40	Lighting.....	%	1.5	1.8	1.9	1.9	2.0	1.9
41	Total.....	%	100	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), including adjustment of data for storage of light fuel oil, excluding motor 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 self-employed 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	2013
<b>By energy sources</b>								
1	Mineral oil.....	TWh	233	175	142	132	121	128
2	Gas.....	TWh	297	276	256	258	260	262
3	Electricity.....	TWh	132	141	140	138	137	135
4	Remote heating.....	TWh	40	42	46	49	47	49
5	Coal.....	TWh	15	9	13	17	9	7
6	Other .....	TWh	50	53	77	83	78	84
7	Total.....	TWh	768	695	674	677	652	665
<b>By use areas</b>								
8	Room heating.....	TWh	591	507	474	480	454	469
9	Hot water 1).....	TWh	77	79	85	86	85	84
10	Other process heat 2).....	TWh	36	40	42	41	42	42
11	Mechanical energy 3).....	TWh	52	56	60	59	58	58
12	Lighting.....	TWh	12	12	13	13	13	13
13	Total.....	TWh	768	695	674	677	652	665
14	memorandum item: not-temperature adjusted 4).....	TWh	700	704	732	640	666	702
<b>index (base year = 100)</b>								
<b>By energy sources</b>								
15	Mineral oil.....	2005=100	134	100	81	76	69	73
16	Gas.....	2005=100	108	100	93	94	94	95
17	Electricity.....	2005=100	94	100	99	98	97	96
18	Remote heating.....	2005=100	95	100	110	118	113	116
19	Coal.....	2005=100	166	100	148	197	98	85
20	Other .....	2005=100	94	100	144	156	147	158
21	Total.....	2005=100	110	100	97	97	94	96
<b>By use areas</b>								
22	Room heating.....	2005=100	117	100	94	95	90	92
23	Hot water 1).....	2005=100	97	100	107	108	107	106
24	Other process heat 2).....	2005=100	89	100	104	101	104	104
25	Mechanical energy 3).....	2005=100	92	100	106	105	104	103
26	Lighting.....	2005=100	93	100	104	101	104	103
27	Total.....	2005=100	110	100	97	97	94	96
28	memorandum item: not-temperature adjusted 4).....	2005=100	99	100	104	91	95	100
<b>percentage of total</b>								
<b>By energy sources</b>								
29	Mineral oil.....	%	30.4	25.1	21.0	19.5	18.6	19.2
30	Gas.....	%	38.7	39.7	38.1	38.1	39.9	39.4
31	Electricity.....	%	17.3	20.3	20.8	20.3	21.0	20.3
32	Remote heating.....	%	5.2	6.0	6.8	7.3	7.2	7.3
33	Coal.....	%	1.9	1.3	1.9	2.6	1.3	1.1
34	Other .....	%	6.5	7.7	11.4	12.3	12.0	12.6
35	Total.....	%	100	100	100	100	100	100
<b>By use areas</b>								
36	Room heating.....	%	77.0	72.9	70.4	70.8	69.7	70.4
37	Hot water 1).....	%	10.1	11.4	12.6	12.7	13.0	12.7
38	Other process heat 2).....	%	4.7	5.8	6.2	6.0	6.4	6.3
39	Mechanical energy 3).....	%	6.7	8.1	8.9	8.7	9.0	8.7
40	Lighting.....	%	1.5	1.8	1.9	1.9	2.0	1.9
41	Total.....	%	100	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), 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 per household (temperature adjusted)<sup>\*)</sup>

No.	Energy sources and usages	Unit	2000	2005	2010	2011	2012	2013
<b>By energy sources</b>								
1	Mineral oil.....	kWh	6,192	4,489	3,517	3,345	3,056	3,198
2	Gas.....	kWh	7,877	7,083	6,361	6,529	6,550	6,569
3	Electricity.....	kWh	3,513	3,621	3,470	3,481	3,449	3,390
4	Remote heating.....	kWh	1,056	1,075	1,141	1,244	1,189	1,216
5	Coal.....	kWh	389	227	323	440	216	187
6	Other .....	kWh	1,328	1,368	1,901	2,103	1,963	2,102
7	Total.....	kWh	20,356	17,863	16,715	17,143	16,424	16,661
<b>By use areas</b>								
8	Room heating.....	kWh	15,683	13,028	11,767	12,138	11,444	11,735
9	Hot water 1).....	kWh	2,047	2,040	2,108	2,171	2,133	2,111
10	Other process heat 2).....	kWh	950	1,033	1,036	1,032	1,053	1,045
11	Mechanical energy 3).....	kWh	1,367	1,442	1,482	1,484	1,470	1,449
12	Lighting.....	kWh	308	320	320	318	324	320
13	Total.....	kWh	20,356	17,863	16,715	17,143	16,424	16,661
14	memorandum item: not-temperature adjusted 4).....	kWh	18,560	18,095	18,167	16,195	16,772	17,571
15	number of households (n.a.) 5).....	1,000	37,711	38,897	40,301	39,509	39,707	39,933
<b>percentage of total</b>								
<b>By energy sources</b>								
16	Mineral oil.....	%	30.4	25.1	21.0	19.5	18.6	19.2
17	Gas.....	%	38.7	39.7	38.1	38.1	39.9	39.4
18	Electricity.....	%	17.3	20.3	20.8	20.3	21.0	20.3
19	Remote heating.....	%	5.2	6.0	6.8	7.3	7.2	7.3
20	Coal.....	%	1.9	1.3	1.9	2.6	1.3	1.1
21	Other .....	%	6.5	7.7	11.4	12.3	12.0	12.6
22	Total.....	%	100	100	100	100	100	100
<b>By use areas</b>								
23	Room heating.....	%	77.0	72.9	70.4	70.8	69.7	70.4
24	Hot water 1).....	%	10.1	11.4	12.6	12.7	13.0	12.7
25	Other process heat 2).....	%	4.7	5.8	6.2	6.0	6.4	6.3
26	Mechanical energy 3).....	%	6.7	8.1	8.9	8.7	9.0	8.7
27	Lighting.....	%	1.5	1.8	1.9	1.9	2.0	1.9
28	Total.....	%	100	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), 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. From 2011 on results on basis of the census 2011. Figures per household for the time before and after 2011 are not fully comparable.

Table 3.3.6.5: Total CO<sub>2</sub> emissions of private households - direct and indirect \*)

No.	Usages	2000	2005	2010	2011	2012	2013
<b>1,000 tonnes</b>							
<b>direct</b>							
1	Room heating (temperature adjusted).....	131,127	110,270	106,624	108,068	100,865	104,759
2	Hot water 1).....	13,171	13,306	14,376	14,585	14,387	14,401
3	Other process heat 2).....	1,199	944	887	817	841	907
4	<b>Total heating</b> .....	<b>145,497</b>	<b>124,520</b>	<b>121,886</b>	<b>123,470</b>	<b>116,094</b>	<b>120,067</b>
5	Mechanical energy 3).....	179	190	250	301	296	275
6	Lighting.....	0	0	0	0	0	0
7	<b>Housing</b> .....	<b>145,676</b>	<b>124,710</b>	<b>122,136</b>	<b>123,771</b>	<b>116,389</b>	<b>120,342</b>
8	Road traffic.....	100,167	102,505	98,572	99,658	98,345	99,914
9	<b>Total</b> .....	<b>245,843</b>	<b>227,215</b>	<b>220,709</b>	<b>223,429</b>	<b>214,734</b>	<b>220,256</b>
<b>indirect - CO<sub>2</sub> emissions from energy provision</b>							
10	Room heating (temperature adjusted).....	33,487	28,943	26,988	28,093	26,505	26,914
11	Hot water 1).....	11,796	11,592	12,530	12,172	11,915	11,675
12	Other process heat 2).....	17,913	20,220	22,311	21,831	22,366	22,206
13	<b>Total heating</b> .....	<b>63,196</b>	<b>60,755</b>	<b>61,829</b>	<b>62,096</b>	<b>60,787</b>	<b>60,795</b>
14	Mechanical energy 3).....	29,007	30,421	31,411	30,893	30,759	30,402
15	Lighting.....	6,618	6,827	6,937	6,822	6,792	6,713
16	<b>Housing</b> .....	<b>98,820</b>	<b>98,003</b>	<b>100,177</b>	<b>99,811</b>	<b>98,338</b>	<b>97,911</b>
17	Road traffic.....	4,822	5,195	5,245	5,307	5,234	5,312
18	<b>Total</b> .....	<b>103,643</b>	<b>103,199</b>	<b>105,422</b>	<b>105,118</b>	<b>103,573</b>	<b>103,223</b>
<b>cumulated (= direct + indirect)</b>							
22	<b>Total heating</b> .....	<b>208,693</b>	<b>185,275</b>	<b>183,715</b>	<b>185,566</b>	<b>176,881</b>	<b>180,862</b>
23	Mechanical energy 3).....	29,186	30,611	31,661	31,194	31,055	30,678
24	Lighting.....	6,618	6,827	6,937	6,822	6,792	6,713
25	<b>Housing</b> .....	<b>244,496</b>	<b>222,713</b>	<b>222,313</b>	<b>223,581</b>	<b>214,727</b>	<b>218,253</b>
<b>percentage of total</b>							
<b>direct</b>							
28	Room heating (temperature adjusted).....	53.3	48.5	48.3	48.4	47.0	47.6
29	Hot water 1).....	5.4	5.9	6.5	6.5	6.7	6.5
31	<b>Total heating</b> .....	<b>59.2</b>	<b>54.8</b>	<b>55.2</b>	<b>55.3</b>	<b>54.1</b>	<b>54.5</b>
34	<b>Housing</b> .....	<b>59.3</b>	<b>54.9</b>	<b>55.3</b>	<b>55.4</b>	<b>54.2</b>	<b>54.6</b>
35	Road traffic.....	40.7	45.1	44.7	44.6	45.8	45.4
36	<b>Total</b> .....	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>
<b>indirect - CO<sub>2</sub> emissions from energy provision</b>							
37	Room heating (temperature adjusted).....	32.3	28.0	25.6	26.7	25.6	26.1
38	Hot water 1).....	11.4	11.2	11.9	11.6	11.5	11.3
39	Other process heat 2).....	17.3	19.6	21.2	20.8	21.6	21.5
40	<b>Total heating</b> .....	<b>61.0</b>	<b>58.9</b>	<b>58.6</b>	<b>59.1</b>	<b>58.7</b>	<b>58.9</b>
41	Mechanical energy 3).....	28.0	29.5	29.8	29.4	29.7	29.5
42	Lighting.....	6.4	6.6	6.6	6.5	6.6	6.5
43	<b>Housing</b> .....	<b>95.3</b>	<b>95.0</b>	<b>95.0</b>	<b>95.0</b>	<b>94.9</b>	<b>94.9</b>
44	Road traffic.....	4.7	5.0	5.0	5.0	5.1	5.1
45	<b>Total</b> .....	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>
<b>cumulated (= direct + indirect)</b>							
46	Room heating (temperature adjusted).....	47.1	42.1	41.0	41.4	40.0	40.7
47	Hot water 1).....	7.1	7.5	8.3	8.1	8.3	8.1
48	Other process heat 2).....	5.5	6.4	7.1	6.9	7.3	7.1
49	<b>Total heating</b> .....	<b>59.7</b>	<b>56.1</b>	<b>56.3</b>	<b>56.5</b>	<b>55.6</b>	<b>55.9</b>
50	Mechanical energy 3).....	8.4	9.3	9.7	9.5	9.8	9.5
51	Lighting.....	1.9	2.1	2.1	2.1	2.1	2.1
52	<b>Housing</b> .....	<b>70.0</b>	<b>67.4</b>	<b>68.2</b>	<b>68.1</b>	<b>67.5</b>	<b>67.5</b>
53	Road traffic.....	30.0	32.6	31.8	31.9	32.5	32.5
54	<b>Total</b> .....	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>

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

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.

Table 3.3.6.6: Energy consumption for heating by household size<sup>\*)</sup>

No.	Characteristics	Unit	2000	2005	2010	2011	2012	2013
1	Total energy for heating.....	PJ	2,129	1,824	1,707	1,726	1,636	1,687
2	Total energy.....	GWh	591,478	506,777	474,273	479,584	454,435	468,670
3	Energy per household.....	kWh	15,685	13,029	11,768	12,139	11,445	11,736
4	One-person household.....	kWh	11,621	9,429	8,933	9,083	8,568	8,790
5	Two-person household.....	kWh	16,129	13,663	12,498	13,021	12,296	12,646
6	Three - and more person households.....	kWh	19,976	17,081	15,245	15,749	14,857	15,249
7	Households.....	1,000	37,711	38,897	40,301	39,509	39,707	39,933
8	One-person household.....	%	35.8	37.9	40.2	40.2	40.2	40.5
9	Two-person household.....	%	33.7	33.7	34.2	34.2	34.4	34.4
10	Three - and more person households.....	%	30.4	28.4	25.6	25.6	25.3	25.1
11	Total.....	%	100	100	100	100	100	100
12	Living space.....	mn m <sup>2</sup>	3,234	3,416	3,530	3,551	3,571	3,595
13	Energy per living space.....	kWh/m <sup>2</sup>	182.9	148.4	134.3	135.1	127.2	130.4
<b>index (2005 = 100)</b>								
14	Total energy.....	2005 = 100	117	100	94	95	90	92
15	Energy per household.....	2005 = 100	120	100	90	93	88	90
16	One-person household.....	2005 = 100	123	100	95	96	91	93
17	Two-person household.....	2005 = 100	118	100	91	95	90	93
18	Three - and more person households.....	2005 = 100	117	100	89	92	87	89
19	Households.....	2005 = 100	97	100	104	102	102	103
20	One-person household.....	2005 = 100	95	100	106	106	106	107
21	Two-person household.....	2005 = 100	100	100	102	102	102	102
22	Three - and more person households.....	2005 = 100	107	100	90	90	89	88
23	Living space.....	2005 = 100	95	100	103	104	105	105

\*) Temperature adjusted energy consumption for heating.

Table 3.3.6.7: Energy consumption for heating by type of buildings and by energy sources <sup>\*)</sup>

No.	Type of buildings	2006						
		Total heating systems <sup>2)</sup>	Main heating systems	of which				
				Fuel oil <sup>3)</sup>	Gas <sup>3)</sup>	Remote heating <sup>4)</sup>	Solid Fuels <sup>4)</sup>	Electricity <sup>4)</sup>
<b>Percentage of dwellings on total dwellings<sup>6)</sup></b>								
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	96.3	21.9	50.7	22.6	0.6	0.6
4	All buildings.....	100	94.5	30.3	48.5	13.1	2.1	0.5
<b>Heated living space in 1,000 m<sup>2</sup></b>								
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
<b>Energy consumption (terajoule)7)</b>								
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
<b>Energy consumption (kWh per m<sup>2</sup>)</b>								
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
<b>Energy consumption change from 2006 to 2012 (2006 = 100)</b>								
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
<b>Percentage of energy consumption by type of houses on total buildings (%)</b>								
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
<b>Percentage of energy consumption on total energy consumption (%)</b>								
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

\*) Energy consumption temperature adjusted for heating.

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 CO<sub>2</sub>-online ([www.co2online.de](http://www.co2online.de)).

Table 3.3.6.7: Energy consumption for heating by type of buildings and by energy sources <sup>\*)</sup>

		2012 <sup>1)</sup>					No.
Total heating systems <sup>2)</sup>	Main heating systems	of which					
		Fuel oil <sup>3)</sup>	Gas <sup>3)</sup>	Remote heating <sup>4)</sup>	Solid Fuels <sup>4)</sup>	Electricity <sup>4)</sup>	
<b>Percentage of dwellings on total dwellings<sup>6)</sup></b>							
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
<b>Heated living space in 1,000 m<sup>2</sup></b>							
	1,403,400	516,741	753,222	38,105	85,879	9,453	5
	666,559	294,288	303,014	13,089	52,132	4,036	6
	1,213,042	244,762	633,700	310,153	14,774	9,653	7
3,571,425	3,283,001	1,055,790	1,689,936	361,347	152,785	23,142	8
<b>Energy consumption (terajoule)<sup>7)</sup></b>							
783,725	618,096	192,196	354,499	24,490	42,665	10,748	9
343,065	283,857	106,760	140,983	11,793	25,899	4,129	10
509,047	493,596	76,567	274,453	3,630	7,340	3,294	11
1,635,836	1,395,550	375,524	769,935	39,912	75,904	18,172	12
<b>Energy consumption (kWh per m<sup>2</sup>)</b>							
	122	103	131	131	138	316	13
	118	101	129	129	138	284	14
	113	87	120	118	138	95	15
127	118	99	127	120	138	218	16
<b>Energy consumption change from 2006 to 2012 (2006 = 100)</b>							
	84	74	88	113	105	68	17
	83	74	88	113	105	65	18
	89	72	89	110	105	40	19
	86	74	89	111	105	61	20
<b>Percentage of energy consumption by type of houses on total buildings (%)</b>							
	44.3	51.2	46.0	11.5	56.2	59.1	21
	20.3	28.4	18.3	3.9	34.1	22.7	22
	35.4	20.4	35.6	84.6	9.7	18.1	23
	100	100	100	100	100	100	24
<b>Percentage of energy consumption on total energy consumption (%)</b>							
	100	31.1	57.4	2.9	6.9	1.7	25
	100	37.6	49.7	2.1	9.1	1.5	26
	100	15.5	55.6	26.7	1.5	0.7	27
	100	26.9	55.2	11.2	5.4	1.3	28

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

No.	Specification	2000	2011	Change 2011 against 2000
		<b>Energy terajoule</b>		in percent
1	Primary domestic energy.....	3,792,632	4,245,564	11.9
2	Domestic production.....	12,099,263	12,247,415	1.2
3	Transformation losses.....	-8,306,631	-8,001,851	-3.7
4	+ Imports (direct) .....	12,278,697	11,961,155	-2.6
5	= Supply of primary energy.....	16,071,328	16,206,719	0.8
6	+ Imports indirect (Energiegehalt der Importgüter 1).....	6,658,861	7,785,405	16.9
7	= Supply of energy.....	22,730,190	23,992,124	5.6
8	= Final uses 2) .....	22,730,190	23,992,124	5.6
9	- Exports.....	8,713,008	10,738,542	23.2
10	direct.....	1,791,923	1,961,554	9.5
11	Embodied energy of exports 1).....	6,921,085	8,776,988	26.8
12	= Final domestic uses.....	14,017,182	13,253,582	-5.4
13	- Domestic final consumption of private households 2).....	10,065,690	9,596,862	-4.7
14	direct.....	3,903,781	3,679,453	-5.7
15	Embodied energy of consumer goods .....	6,161,909	5,917,408	-4.0
16	= Other final uses 3).....	3,951,492	3,656,720	-7.5
		<b>Macroeconomic reference data EUR bn at current prices<sup>4)</sup></b>		
17	Domestic production.....	3,786	5,288	39.7
18	+ Total imports 1).....	538	839	56.1
19	= Supply.....	4,324	6,128	41.7
20	- Intermediate consumption.....	1,883	2,799	48.6
21	= Final uses.....	2,441	3,329	36.4
22	- Total exports 1).....	577	1,005	74.4
23	= Final domestic uses.....	1,864	2,323	24.6
24	Domestic final consumption of private households .....	1,024	1,269	23.9
25	Consumption expenditure of non-profit institutions serving households.....	34	41	20.2
26	Government final consumption expenditure.....	388	500	28.8
27	Gross fixed capital formation.....	411	502	22.1
28	Changes in stocks, acquisitions less disposals of valuables.....	7	12	-
		<b>Energy intensity energy consumption per macroeconomic reference data at current prices MJ per EUR 1,000</b>		
29	= Final uses.....	9,313	7,208	
30	- Exports.....	12,004	8,729	
31	= Final domestic uses.....	7,519	5,705	
32	Domestic final consumption of private households 3).....	9,826	7,562	
33	memorandum item: Imports 1) .....	12,379	9,274	

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 final use by commodity groups 2011

No.	Commodity groups	Total final use	including:		Total final use	including:	
			Domestic final consumption of private households	Exports and ocean bunkering		Domestic final consumption of private households	Exports and ocean bunkering
		terajoule			percentage of total		
1	Products of agriculture, hunting and related services.....	225,954	155,953	48,644	1.2	2.6	0.6
2	Products of forestry, logging and related services.....	5,966	4,376	941	0.0	0.1	0.0
3	Fish and other fishing products; aquaculture products.....	3,557	2,934	628	0.0	0.0	0.0
4	Hard coal.....	2,000	3,131	1,055	0.0	0.1	0.0
5	Lignite.....	2,197	925	1,382	0.0	0.0	0.0
6	Crude petroleum and natural gas.....	35,100	35,070	18	0.2	0.6	0.0
7	Metal ores; Other mining and quarrying products; Mining support services.....	7,223	497	6,318	0.0	0.0	0.1
8	Food products; Beverages; Tobacco products.....	1,136,719	773,640	311,403	6.2	13.1	3.5
9	Textiles; Wearing apparel; Leather and related products.....	348,733	250,576	82,066	1.9	4.2	0.9
10	Wood, products of wood and cork, except furniture.....	122,918	27,725	59,160	0.7	0.5	0.7
11	Paper and paper products.....	390,386	97,127	322,637	2.1	1.6	3.7
12	Printing and recording services.....	39,733	21,432	17,419	0.2	0.4	0.2
13	Coke oven products.....	18,425	444	1,192	0.1	0.0	0.0
14	Refined petroleum products.....	373,865	270,003	106,332	2.1	4.6	1.2
15	Basic chemicals.....	1,748,991	48,131	1,674,631	9.6	0.8	19.1
16	Other chemical products.....	791,905	195,201	606,560	4.3	3.3	6.9
17	Pharmaceutical products.....	251,919	66,542	154,975	1.4	1.1	1.8
18	Rubber and plastics products.....	549,147	92,505	418,742	3.0	1.6	4.8
19	Glass and glass products.....	101,246	28,615	76,222	0.6	0.5	0.9
20	Ceramic products; Cut, shaped and finished stone.....	151,513	32,194	79,852	0.8	0.5	0.9
21	Basic iron and steel; other products of the first processing of steel.....	686,505	0	652,329	3.8	0.0	7.4
22	Aluminium.....	220,741	0	204,952	1.2	0.0	2.3
23	Other non-ferrous metals.....	175,652	0	161,685	1.0	0.0	1.8
24	Casting services of metals.....	12,545	0	2,751	0.1	0.0	0.0
25	Fabricated metal products.....	410,349	39,506	222,837	2.3	0.7	2.5
26	Computer, electronic and optical products.....	356,047	73,465	196,926	2.0	1.2	2.2
27	Electrical equipment.....	322,709	42,681	208,094	1.8	0.7	2.4
28	Machinery and equipment n.e.c.....	983,435	6,881	657,620	5.4	0.1	7.5
29	Motor vehicles, trailers and semi-trailers.....	1,570,736	378,322	1,026,635	8.6	6.4	11.7
30	Other transport equipment.....	161,498	12,616	108,975	0.9	0.2	1.2
31	Furniture; Other manufactured goods.....	280,070	117,579	84,787	1.5	2.0	1.0
32	Repair and installation services of machinery and equipment.....	73,035	2,129	9,612	0.4	0.0	0.1
33	Electricity, transmission and distribution services.....	1,277,860	816,045	312,572	7.0	13.8	3.6
34	Manufactured gas; distribution services of gaseous fuels through mains.....	7,212	0	0	0.0	0.0	0.0
35	Steam supply services.....	44,335	36,081	53	0.2	0.6	0.0
36	Natural water; water treatment and supply services.....	61,702	61,723	0	0.3	1.0	0.0
37	Sewerage, Waste management and remediation services.....	92,016	58,572	49,164	0.5	1.0	0.6
38	Buildings and building construction works.....	422,172	2	0	2.3	0.0	0.0
39	Specialised construction works.....	418,686	22,298	2,342	2.3	0.4	0.0
40	Wholesale and retail trade and repair services of motor vehicles.....	107,952	75,469	13,347	0.6	1.3	0.2
41	Wholesale trade services, except of motor vehicles and motorcycles.....	298,818	132,914	137,002	1.6	2.2	1.6
42	Retail trade services, except of motor vehicles and motorcycles.....	415,056	383,790	0	2.3	6.5	0.0
43	Rail transport services.....	122,484	113,719	8,868	0.7	1.9	0.1
44	Other land transport services.....	82,674	111,979	10,871	0.5	1.9	0.1
45	Water transport services.....	399,006	18,092	399,793	2.2	0.3	4.6
46	Air transport services.....	411,065	261,699	108,520	2.3	4.4	1.2
47	Warehousing and support services for transportation.....	52,324	11,320	28,906	0.3	0.2	0.3
48	Postal and courier services.....	16,406	10,289	5,612	0.1	0.2	0.1
49	Accommodation and food serving services.....	315,695	286,884	28,448	1.7	4.8	0.3
50	Publishing services.....	41,028	31,984	9,255	0.2	0.5	0.1
51	Motion picture, video and television programme services.....	43,745	29,813	5,034	0.2	0.5	0.1
52	Telecommunications services.....	71,862	65,106	7,042	0.4	1.1	0.1
53	Information services.....	49,586	426	19,506	0.3	0.0	0.2
54	Financial and insurance services.....	111,921	86,305	25,510	0.6	1.5	0.3
55	Real estate services.....	181,897	179,464	1,270	1.0	3.0	0.0
56	Legal and accounting services, business services, architectural services.....	83,394	6,186	42,886	0.5	0.1	0.5
57	Scientific research and development services.....	211,030	0	29,845	1.2	0.0	0.3
58	Advertising and market research services; Security.....	60,582	34,401	19,467	0.3	0.6	0.2
59	Public administration and defence services;.....	314,925	10,078	2,336	1.7	0.2	0.0
60	Compulsory social security services.....	29,116	0	0	0.2	0.0	0.0
61	Education services.....	188,979	23,413	0	1.0	0.4	0.0
62	Human health services.....	341,917	87,345	0	1.9	1.5	0.0
63	Residential care services; Social work services.....	146,542	26,091	0	0.8	0.4	0.0
64	Arts, entertainment and recreation services.....	93,795	52,353	1,708	0.5	0.9	0.0
65	Services furnished by membership organisations.....	40,977	3,881	0	0.2	0.1	0.0
66	Repair services of computers and personal and household goods.....	99,314	99,492	252	0.5	1.7	0.0
67	<b>Total final domestic uses.....</b>	<b>18,216,891</b>	<b>5,917,408</b>	<b>8,776,988</b>	<b>100</b>	<b>100</b>	<b>100</b>



**Table 3.4.3: Energy consumption of industries on the national territory and abroad at the production of goods for final use 2011**

No.	Goods groups	Finale use							
		Domestic	including:	Imports	Total	Domestic	including:	Imports	Total
			Exports <sup>1)</sup>				Exports <sup>1)</sup>		
		<b>terajoule</b>				<b>percentage of total</b>			
1	Products of agriculture, hunting and related services.....	177,029	57,934	157,285	334,314	53.0	32.7	47.0	100
2	Products of forestry, logging and related services.....	3,037	912	7,100	10,137	30.0	30.0	70.0	100
3	Fish and other fishing products; aquaculture products.....	1,579	564	3,749	5,327	29.6	35.7	70.4	100
4	Hard coal.....	34,874	17,909	73,523	108,397	32.2	51.4	67.8	100
5	Lignite.....	42,573	17,642	9,084	51,658	82.4	41.4	17.6	100
6	Crude petroleum and natural gas.....	11,214	3,988	281,384	292,598	3.8	35.6	96.2	100
7	Metal ores; Other mining and quarrying products; Mining support services.....	17,742	10,613	112,690	130,432	13.6	59.8	86.4	100
8	Food products; Beverages; Tobacco products.....	222,658	70,456	105,340	327,998	67.9	31.6	32.1	100
9	Textiles; Wearing apparel; Leather and related products.....	25,259	14,631	62,809	88,068	28.7	57.9	71.3	100
10	Wood, products of wood and cork, except furniture.....	90,202	37,805	38,329	128,532	70.2	41.9	29.8	100
11	Paper and paper products.....	239,176	165,287	257,664	496,841	48.1	69.1	51.9	100
12	Printing and recording services.....	22,501	7,362	7,103	29,604	76.0	32.7	24.0	100
13	Coke oven products.....	42,879	30,624	116,087	158,966	27.0	71.4	73.0	100
14	Refined petroleum products.....	286,848	119,949	288,992	575,840	49.8	41.8	50.2	100
15	Basic chemicals.....	1,339,779	1,207,886	2,119,642	3,459,420	38.7	90.2	61.3	100
16	Other chemical products.....	111,301	91,396	118,242	229,543	48.5	82.1	51.5	100
17	Pharmaceutical products.....	25,307	23,388	22,662	47,969	52.8	92.4	47.2	100
18	Rubber and plastics products.....	91,725	64,452	88,081	179,805	51.0	70.3	49.0	100
19	Glass and glass products.....	89,913	60,347	110,442	200,354	44.9	67.1	55.1	100
20	Ceramic products; Cut, shaped and finished stone.....	202,156	58,046	69,188	271,343	74.5	28.7	25.5	100
21	Basic iron and steel; other products of the first processing of steel.....	567,569	477,031	654,230	1,221,799	46.5	84.0	53.5	100
22	Aluminium.....	43,053	37,516	153,446	196,499	21.9	87.1	78.1	100
23	Other non-ferrous metals.....	30,132	27,461	133,205	163,337	18.4	91.1	81.6	100
24	Casting services of metals.....	50,011	32,996	18,642	68,653	72.8	66.0	27.2	100
25	Fabricated metal products.....	110,084	63,885	49,580	159,663	68.9	58.0	31.1	100
26	Computer, electronic and optical products.....	29,862	25,824	47,164	77,026	38.8	86.5	61.2	100
27	Electrical equipment.....	36,782	24,496	25,797	62,579	58.8	66.6	41.2	100
28	Machinery and equipment n.e.c.....	88,281	65,205	37,360	125,640	70.3	73.9	29.7	100
29	Motor vehicles, trailers and semi-trailers.....	123,908	88,528	48,507	172,415	71.9	71.4	28.1	100
30	Other transport equipment.....	13,496	11,750	11,024	24,520	55.0	87.1	45.0	100
31	Furniture; Other manufactured goods.....	27,556	11,889	18,108	45,663	60.3	43.1	39.7	100
32	Repair and installation services of machinery and equipment.....	15,209	6,121	10,089	25,298	60.1	40.2	39.9	100
33	Electricity, transmission and distribution services.....	3,130,624	1,265,916	1,612,991	4,743,615	66.0	40.4	34.0	100
34	Manufactured gas; distribution services of gaseous fuels through mains.....	27,762	16,257	21,488	49,250	56.4	58.6	43.6	100
35	Steam supply services.....	73,835	22,901	29,153	102,988	71.7	31.0	28.3	100
36	Natural water; water treatment and supply services.....	30,803	3,196	4,208	35,011	88.0	10.4	12.0	100
37	Sewerage, Waste management and remediation services.....	87,352	45,426	60,855	148,206	58.9	52.0	41.1	100
38	Buildings and building construction works.....	157,938	2,784	5,219	163,157	96.8	1.8	3.2	100
39	Specialised construction works.....	83,354	7,107	11,577	94,931	87.8	8.5	12.2	100
40	Wholesale and retail trade and repair services of motor vehicles.....	65,018	20,596	16,522	81,541	79.7	31.7	20.3	100
41	Wholesale trade services, except of motor vehicles and motorcycles.....	114,875	50,290	40,054	154,929	74.1	43.8	25.9	100
42	Retail trade services, except of motor vehicles and motorcycles.....	220,056	20,061	8,570	228,626	96.3	9.1	3.7	100
43	Rail transport services.....	67,026	11,837	20,465	87,491	76.6	17.7	23.4	100
44	Other land transport services.....	233,062	81,808	323,748	556,810	41.9	35.1	58.1	100
45	Water transport services.....	330,853	327,352	4,285	335,139	98.7	98.9	1.3	100
46	Air transport services.....	397,993	132,407	103,630	501,623	79.3	33.3	20.7	100
47	Warehousing and support services for transportation.....	145,285	63,061	80,694	225,979	64.3	43.4	35.7	100
48	Postal and courier services.....	62,888	19,553	17,247	80,136	78.5	31.1	21.5	100
49	Accommodation and food serving services.....	101,119	9,756	10,835	111,954	90.3	9.6	9.7	100
50	Publishing services.....	1,495	377	338	1,833	81.6	25.2	18.4	100
51	Motion picture, video and television programme services.....	24,149	3,879	4,414	28,562	84.5	16.1	15.5	100
52	Telecommunications services.....	26,251	4,900	6,588	32,839	79.9	18.7	20.1	100
53	Information services.....	32,031	12,007	22,631	54,662	58.6	37.5	41.4	100
54	Financial and insurance services.....	39,416	9,943	8,800	48,216	81.7	25.2	18.3	100
55	Real estate services.....	34,566	3,348	3,257	37,823	91.4	9.7	8.6	100
56	Legal and accounting services, business services, architectural services.....	102,633	43,361	56,744	159,377	64.4	42.2	35.6	100
57	Scientific research and development services.....	42,483	6,688	5,250	47,732	89.0	15.7	11.0	100
58	Advertising and market research services; Security.....	53,828	19,197	21,578	75,406	71.4	35.7	28.6	100
59	Public administration and defence services;.....	135,776	10,067	17,838	153,614	88.4	7.4	11.6	100
60	Compulsory social security services.....	6,501	20	25	6,526	99.6	0.3	0.4	100
61	Education services.....	100,764	1,625	1,350	102,113	98.7	1.6	1.3	100
62	Human health services.....	105,511	96	104	105,615	99.9	0.1	0.1	100
63	Residential care services; Social work services.....	57,742	0	0	57,742	100.0	0.0	0.0	100
64	Arts, entertainment and recreation services.....	51,609	2,178	2,904	54,513	94.7	4.2	5.3	100
65	Services furnished by membership organisations.....	20,853	1,276	1,591	22,444	92.9	6.1	7.1	100
66	Repair services of computers and personal and household goods.....	52,341	3,457	3,906	56,247	93.1	6.6	6.9	100
67	<b>Total final domestic uses.....</b>	<b>10,431,486</b>	<b>5,156,620</b>	<b>7,785,405</b>	<b>18,216,891</b>	<b>57.3</b>	<b>49.4</b>	<b>42.7</b>	<b>100</b>

1) Excl. re-exports.

**Table 3.5.1: Emission-relevant domestic energy consumption**  
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No.	CPA <sup>1)</sup>	Homogeneous branches <sup>2) 3)</sup>	2000	2005	2010	2011	2012	2013
1	A	Products of agriculture, forestry and fishing.....	147,842	147,362	157,941	157,237	180,628	187,481
2	01	Products of agriculture, hunting and related services.....	144,334	144,346	154,436	153,553	176,966	183,779
3	02	Products of forestry, logging and related services.....	1,838	2,051	2,344	2,571	2,551	2,567
4	03	Fish and other fishing products; aquaculture products.....	1,670	965	1,161	1,112	1,110	1,136
5	B	Mining and quarrying.....	48,304	45,931	46,455	61,513	31,507	33,108
6	05	Coal and lignite.....	10,665	16,939	23,661	40,303	11,603	10,758
7	06	Crude petroleum and natural gas.....	22,033	14,833	10,364	10,680	10,335	11,091
8	07-09	Metal ores, other mining and quarrying products.....	15,606	14,159	12,430	10,530	9,569	11,259
9	C	Manufactured products.....	2,101,311	2,005,436	2,044,462	2,025,059	1,935,550	1,962,506
10	10-12	Food products, beverages, tobacco products.....	158,290	152,395	154,452	145,749	146,700	145,095
11	13-15	Textiles, wearing apparel, leather and related products.....	28,764	26,368	14,755	13,970	13,551	12,067
12	16	Wood and products of wood and cork, except furniture.....	25,582	47,202	62,655	69,469	44,962	61,345
13	17	Paper and paper products.....	111,095	215,184	156,123	138,425	127,227	140,416
14	18	Printing and recording services.....	13,447	13,406	11,431	10,227	11,310	10,807
15	19	Coke and refined petroleum products.....	306,951	327,529	281,766	283,381	277,412	283,947
16	19.1	Coke oven products.....	46,183	24,386	24,711	23,933	22,989	23,647
17	19.2	Refined petroleum products.....	260,767	303,143	257,055	259,448	254,423	260,300
18	20	Chemicals and chemical products.....	299,479	208,389	322,047	319,019	298,018	282,477
19	21	Basic pharmaceutical products and pharmaceutical preparations.....	42,285	19,256	16,445	16,130	17,685	16,908
20	22	Rubber and plastic products.....	32,846	32,288	37,174	31,155	30,620	31,813
21	23	Other non-metallic mineral products.....	272,668	229,642	237,900	247,817	237,232	235,031
22	23.1	Glass and glass products.....	80,463	70,175	69,352	71,182	65,298	65,762
23	23.2-9	Refractory products, cut, shaped and finished stone.....	192,205	159,467	168,548	176,634	171,935	169,269
24	24	Basic metals.....	608,448	533,270	544,049	551,569	531,663	528,303
25	24.1-3	Basic iron and steel and ferro-alloys, other products of steel.....	545,979	477,140	482,876	491,818	474,214	476,018
26	24.4	Basic precious and other non-ferrous metals.....	38,704	32,763	32,835	30,858	29,419	29,462
27	24.5	Casting services of metal.....	23,764	23,367	28,337	28,893	28,030	22,823
28	25	Fabricated metal products, except machinery and equipment.....	55,326	52,851	54,411	53,515	52,703	57,707
29	26	Computer, electronic and optical products.....	14,721	11,567	9,831	9,655	10,649	11,306
30	27	Electrical equipment.....	11,775	10,747	11,658	12,430	10,856	13,924
31	28	Machinery and equipment n.e.c.....	47,253	49,742	46,982	42,962	44,271	43,891
32	29	Motor vehicles, trailers and semi-trailers.....	49,496	52,310	51,690	52,705	52,073	54,201
33	30	Other transport equipment.....	9,733	9,235	10,031	8,168	8,522	9,428
34	31-32	Furniture, other manufacture goods.....	10,797	11,965	15,615	13,611	14,749	17,945
35	33	Repair and installation services of machinery and equipment.....	2,355	2,091	5,446	5,103	5,347	5,895
36	D (35)	Electricity, gas, steam and air conditioning.....	3,748,281	4,249,927	4,375,235	4,359,735	4,285,858	4,324,864
37	35.1/.3	Electricity, transmission and distribution services, steam.....	3,747,822	4,216,781	4,348,345	4,338,893	4,267,438	4,307,750
38	35.2	Manufactured gas.....	459	33,146	26,890	20,841	18,420	17,115
39	E	Water supply; sewerage, waste management and remediation services.....	101,344	67,539	74,288	70,416	66,031	98,209
40	36	Natural water; water treatment and supply services.....	482	582	1,106	1,028	982	1,013
41	37-39	Sewerage services; waste collection and materials recovery services.....	100,862	66,956	73,181	69,388	65,049	97,196
42	37	Sewerage services, sewerage sludge.....	9,156	6,067	6,196	5,874	5,720	5,834
43	38-39	Waste collection, treatment and disposal services.....	91,706	60,890	66,985	63,514	59,329	91,363
44	F	Constructions and construction works.....	150,257	108,599	120,034	123,764	122,940	128,180
45	41-42	Building and building construction works.....	74,657	53,048	47,065	47,753	46,931	48,413
46	43	Specialised construction works.....	75,600	55,551	72,969	76,010	76,009	79,767
47	G	Wholesale and retail trade services; repair services of motor vehicles.....	329,418	296,475	273,399	261,914	258,298	271,121
48	45	Wholesale and retail trade and repair services of motor vehicles.....	41,932	31,652	34,111	30,495	30,992	33,283
49	46	Wholesale trade services, except of motor vehicles and motorcycles.....	113,998	102,364	85,997	86,397	84,913	88,583
50	47	Retail trade services, except of motor vehicles and motorcycles.....	173,489	162,460	153,292	145,022	142,394	149,254
51	H	Transportation and storage services.....	407,933	413,222	448,253	450,798	441,871	443,776
52	49.1-2	Passenger rail transport services, freight rail transport services.....	30,723	23,690	17,408	17,469	16,135	16,197
53	49.3-5	Other passenger land transport services, transport service via pipeline..	137,835	149,972	210,173	212,576	208,429	208,891
54	50	Water transport services.....	14,051	15,889	6,382	6,911	6,550	5,829
55	51	Air transport services.....	46,343	41,639	33,850	31,174	31,436	29,491
56	52	Warehousing and support services for transportation.....	131,599	134,512	119,567	121,432	118,458	121,594
57	53	Postal and courier services.....	47,382	47,519	60,872	61,236	60,863	61,773
58	I	Accommodation and food services.....	68,618	57,771	59,223	55,821	54,296	58,322
59	J	Information and communication services.....	66,519	69,480	47,935	45,510	44,261	46,338
60	K	Financial and insurance services.....	31,976	30,450	29,104	25,805	26,288	28,221
61	L	Real estate services.....	12,713	15,839	15,474	14,917	15,164	15,382
62	M	Professional, scientific and technical services.....	114,988	113,690	121,153	115,374	114,996	121,640
63	N	Administrative and support services.....	17,124	66,072	16,988	16,243	15,848	16,790
64	O	Public administration and defence services.....	122,405	103,432	112,875	101,064	96,396	100,292
65	P	Education services.....	77,506	76,193	70,913	64,263	62,986	67,330
66	Q	Human health and social work services.....	97,622	99,029	111,122	101,288	102,746	107,576
67	R-T	Other services.....	143,415	115,339	94,378	85,082	85,877	87,565
68		<b>All homogeneous branches.....</b>	<b>7,787,578</b>	<b>8,081,786</b>	<b>8,219,232</b>	<b>8,135,800</b>	<b>7,941,540</b>	<b>8,098,703</b>
69		Private households (residents concept).....	3,296,368	3,277,372	3,266,642	2,989,342	3,042,044	3,177,477
70		<b>All homogeneous branches and private households (residents concept)....</b>	<b>11,083,946</b>	<b>11,359,158</b>	<b>11,485,874</b>	<b>11,125,143</b>	<b>10,983,584</b>	<b>11,276,180</b>

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 source 2000

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No.	CPA <sup>1)</sup>	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.....	147,842	1,329	678	132,149	0	4,499	96,454
2	01	Products of agriculture, hunting and related services.....	144,334	1,329	678	128,647	0	4,265	93,185
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.....	1,670	0	0	1,670	0	3	1,667
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.....	2,101,311	389,595	53,603	576,628	0	21,253	51,323
10	10-12	Food products, beverages, tobacco products.....	158,290	6,212	5,041	51,595	0	2,164	5,722
11	13-15	Textiles, wearing apparel, leather and related products.....	28,764	1,143	10	7,088	0	539	1,193
12	16	Wood and products of wood and cork, except furniture.....	25,582	153	92	7,667	0	400	940
13	17	Paper and paper products.....	111,095	13,629	3,039	8,585	0	537	1,224
14	18	Printing and recording services.....	13,447	50	26	3,048	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.....	299,479	8,080	5,570	33,797	0	1,865	4,366
19	21	Basic pharmaceutical products and pharmaceutical preparations.....	42,285	1,636	39	19,513	0	414	985
20	22	Rubber and plastic products.....	32,846	0	108	9,196	0	931	2,128
21	23	Other non-metallic mineral products.....	272,668	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.....	192,205	48,245	38,595	38,409	0	569	1,403
24	24	Basic metals.....	608,448	307,888	481	49,880	0	1,071	2,466
25	24.1-3	Basic iron and steel and ferro-alloys, other products of steel.....	545,979	293,923	2	40,646	0	555	1,276
26	24.4	Basic precious and other non-ferrous metals.....	38,704	3,360	396	6,725	0	371	853
27	24.5	Casting services of metal.....	23,764	10,605	83	2,509	0	145	338
28	25	Fabricated metal products, except machinery and equipment.....	55,326	640	49	20,697	0	1,673	4,114
29	26	Computer, electronic and optical products.....	14,721	14	7	7,595	0	1,022	2,222
30	27	Electrical equipment.....	11,775	552	81	8,093	0	1,208	3,022
31	28	Machinery and equipment n.e.c.....	47,253	536	49	22,413	0	2,428	5,810
32	29	Motor vehicles, trailers and semi-trailers.....	49,496	723	3	16,986	0	3,661	8,637
33	30	Other transport equipment.....	9,733	1	0	2,595	0	466	1,136
34	31-32	Furniture, other manufacture goods.....	10,797	64	33	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.....	3,748,281	1,363,356	1,451,322	97,745	0	659	2,618
37	35.1/.3	Electricity, transmission and distribution services, steam.....	3,747,822	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.....	101,344	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.....	100,862	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.....	91,706	646	3	74,744	0	8,883	54,366
44	F	Constructions and construction works.....	150,257	410	209	133,222	0	13,705	90,075
45	41-42	Building and building construction works.....	74,657	200	102	66,317	0	6,303	45,676
46	43	Specialised construction works.....	75,600	209	107	66,905	0	7,402	44,399
47	G	Wholesale and retail trade services; repair services of motor vehicles.....	329,418	3,771	1,924	221,706	0	34,093	106,178
48	45	Wholesale and retail trade and repair services of motor vehicles.....	41,932	421	215	28,003	0	1,352	9,186
49	46	Wholesale trade services, except of motor vehicles and motorcycles.....	113,998	735	375	83,186	0	7,344	60,460
50	47	Retail trade services, except of motor vehicles and motorcycles.....	173,489	2,616	1,335	110,517	0	25,396	36,532
51	H	Transportation and storage services.....	407,933	60	447	391,241	0	8,866	338,822
52	49.1-2	Passenger rail transport services, freight rail transport services.....	30,723	36	434	29,745	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.....	14,051	0	0	14,032	0	8	14,024
55	51	Air transport services.....	46,343	0	0	46,317	0	277	9,282
56	52	Warehousing and support services for transportation.....	131,599	0	0	121,880	0	1,313	116,415
57	53	Postal and courier services.....	47,382	24	12	44,633	0	2,478	40,380
58	I	Accommodation and food services.....	68,618	974	497	33,602	0	2,647	1,442
59	J	Information and communication services.....	66,519	132	67	54,147	0	9,837	32,954
60	K	Financial and insurance services.....	31,976	175	90	17,094	0	2,171	1,157
61	L	Real estate services.....	12,713	33	17	9,940	0	3,809	3,234
62	M	Professional, scientific and technical services.....	114,988	160	82	97,422	0	37,456	44,695
63	N	Administrative and support services.....	17,124	29	15	11,510	0	2,004	6,633
64	O	Public administration and defence services.....	122,405	2,311	2,041	78,046	0	12,302	18,599
65	P	Education services.....	77,506	523	267	22,463	0	353	952
66	Q	Human health and social work services.....	97,622	2,118	1,081	28,786	0	2,974	1,931
67	R-T	Other services.....	143,415	298	152	103,181	0	11,894	68,227
68		<b>All homogeneous branches.....</b>	<b>7,787,578</b>	<b>1,767,211</b>	<b>1,520,921</b>	<b>2,103,549</b>	<b>0</b>	<b>179,882</b>	<b>932,295</b>
69		Private households (domestic consumption).....	3,296,368	28,252	20,114	2,133,181	0	1,125,723	258,577
70		<b>All homogeneous branches and private households (domestic concept).....</b>	<b>11,083,946</b>	<b>1,795,463</b>	<b>1,541,035</b>	<b>4,236,730</b>	<b>0</b>	<b>1,305,605</b>	<b>1,190,871</b>

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 source 2000

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Mineral oil				Gases	Renewable energies and other non-renewable energy sources					Electricity	Nuclear energy	Remote heating	Other fossil sources <sup>2)</sup>	No.
Air fuel	Light fuel oil	Heavy fuel oil	Other mineral oil products		Together	Water and wind power, solar energy plant and other <sup>2)</sup>	biomass	Renewable energies	non-renewable waste, waste heat, etc. <sup>3)</sup>					
0	30,308	0	888	13,272	414	0	414	0	0	0	0	0	0	1
0	30,308	0	888	13,272	408	0	408	0	0	0	0	0	0	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	113,452	148,750	241,849	1,009,584	14,573	0	14,573	0	0	0	0	0	57,327	9
0	30,654	9,506	3,550	95,392	50	0	50	0	0	0	0	0	0	10
0	4,386	942	28	20,510	12	0	12	0	0	0	0	0	0	11
0	4,164	2,030	133	9,916	7,755	0	7,755	0	0	0	0	0	0	12
0	3,013	2,839	972	79,822	5,913	0	5,913	0	0	0	0	0	108	13
0	1,869	0	14	10,314	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	46,039	18
0	984	1,917	15,213	21,092	5	0	5	0	0	0	0	0	0	19
0	5,165	878	93	23,520	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	11,181	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	11,181	23
0	5,067	37,324	3,951	250,173	26	0	26	0	0	0	0	0	0	24
0	1,130	36,021	1,664	211,395	13	0	13	0	0	0	0	0	0	25
0	2,358	1,221	1,922	28,214	9	0	9	0	0	0	0	0	0	26
0	1,579	82	365	10,563	4	0	4	0	0	0	0	0	0	27
0	13,640	188	1,081	33,900	41	0	41	0	0	0	0	0	0	28
0	4,339	0	12	7,062	42	0	42	0	0	0	0	0	0	29
0	3,711	122	30	3,000	48	0	48	0	0	0	0	0	0	30
0	11,716	639	1,820	24,193	62	0	62	0	0	0	0	0	0	31
0	3,755	48	885	31,689	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	58,346	36
0	23,560	34,209	36,700	647,099	130,411	0	73,949	0	56,462	0	0	0	58,346	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	27,901	0	1,540	16,052	365	0	365	0	0	0	0	0	0	44
0	13,627	0	711	7,858	179	0	179	0	0	0	0	0	0	45
0	14,274	0	829	8,194	185	0	185	0	0	0	0	0	0	46
0	80,476	0	959	101,039	977	0	977	0	0	0	0	0	0	47
0	17,465	0	0	13,150	143	0	143	0	0	0	0	0	0	48
0	15,375	0	7	29,182	521	0	521	0	0	0	0	0	0	49
0	47,637	0	952	58,707	314	0	314	0	0	0	0	0	0	50
36,757	6,381	0	415	10,554	5,632	0	5,632	0	0	0	0	0	0	51
0	454	0	207	454	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
36,757	0	0	0	0	26	0	26	0	0	0	0	0	0	55
0	4,152	0	0	8,129	1,590	0	1,590	0	0	0	0	0	0	56
0	1,775	0	0	1,971	741	0	741	0	0	0	0	0	0	57
0	27,855	0	1,658	33,538	7	0	7	0	0	0	0	0	0	58
0	11,351	0	4	11,949	225	0	225	0	0	0	0	0	0	59
0	13,766	0	0	14,602	14	0	14	0	0	0	0	0	0	60
0	2,897	0	0	2,703	19	0	19	0	0	0	0	0	0	61
0	14,676	0	595	17,127	197	0	197	0	0	0	0	0	0	62
0	2,872	0	0	5,413	157	0	157	0	0	0	0	0	0	63
9,862	35,656	205	1,422	39,978	28	0	28	0	0	0	0	0	0	64
0	21,158	0	0	54,251	3	0	3	0	0	0	0	0	0	65
0	23,880	0	0	65,617	20	0	20	0	0	0	0	0	0	66
0	23,059	0	1	38,995	789	0	789	0	0	0	0	0	0	67
46,619	463,907	184,061	296,785	2,110,400	169,824	0	113,362	0	56,462	0	0	0	115,674	68
0	712,139	0	36,742	947,732	167,089	0	167,089	0	0	0	0	0	0	69
46,619	1,176,046	184,061	333,527	3,058,132	336,913	0	280,451	0	56,462	0	0	0	115,674	70

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

terajoule

No.	CPA <sup>1)</sup>	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		<b>All homogeneous branches.....</b>	<b>8,081,786</b>	<b>1,609,758</b>	<b>1,570,779</b>	<b>1,952,920</b>	<b>0</b>	<b>102,611</b>	<b>899,200</b>
69		Private households (domestic consumption).....	3,277,372	15,407	16,998	2,047,712	0	1,006,723	383,233
70		<b>All homogeneous branches and private households (domestic concept).....</b>	<b>11,359,158</b>	<b>1,625,166</b>	<b>1,587,777</b>	<b>4,000,632</b>	<b>0</b>	<b>1,109,334</b>	<b>1,282,433</b>

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 source 2005

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Mineral oil				Gases	Renewable energies and other non-renewable energy sources					Electricity	Nuclear energy	Remote heating	Other fossil sources <sup>2)</sup>	No.
Air fuel	Light fuel oil	Heavy fuel oil	Other mineral oil products		Together	Water and wind power, solar energy plant and other <sup>2)</sup>	biomass	Renewable energies	non-renewable waste, waste heat, etc. <sup>3)</sup>					
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
<b>31,568</b>	<b>418,690</b>	<b>165,907</b>	<b>334,945</b>	<b>2,193,060</b>	<b>580,246</b>	<b>0</b>	<b>369,000</b>	<b>0</b>	<b>211,246</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>175,023</b>	<b>68</b>
0	628,974	0	28,781	987,825	209,430	0	209,430	0	0	0	0	0	0	69
<b>31,568</b>	<b>1,047,664</b>	<b>165,907</b>	<b>363,726</b>	<b>3,180,885</b>	<b>789,675</b>	<b>0</b>	<b>578,429</b>	<b>0</b>	<b>211,246</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>175,023</b>	<b>70</b>

Table 3.5.2.3: Emission-relevant energy consumption by type of energy source 2010

terajoule

No.	CPA <sup>1)</sup>	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.....	157,941	300	0	134,371	0	2,097	108,690
2	01	Products of agriculture, hunting and related services.....	154,436	300	0	130,907	0	2,030	105,295
3	02	Products of forestry, logging and related services.....	2,344	0	0	2,307	0	60	2,246
4	03	Fish and other fishing products; aquaculture products.....	1,161	0	0	1,156	0	7	1,149
5	B	Mining and quarrying.....	46,455	6,498	12,304	6,180	0	234	3,685
6	05	Coal and lignite.....	23,661	6,385	10,094	1,222	0	33	854
7	06	Crude petroleum and natural gas.....	10,364	0	0	1,740	0	146	1,585
8	07-09	Metal ores, other mining and quarrying products.....	12,430	113	2,210	3,217	0	55	1,247
9	C	Manufactured products.....	2,044,462	333,949	61,815	435,406	0	8,637	56,115
10	10-12	Food products, beverages, tobacco products.....	154,452	3,818	4,751	26,814	0	902	5,653
11	13-15	Textiles, wearing apparel, leather and related products.....	14,755	501	0	1,659	0	116	726
12	16	Wood and products of wood and cork, except furniture.....	62,655	0	132	4,968	0	123	1,038
13	17	Paper and paper products.....	156,123	12,175	4,144	5,262	0	206	1,302
14	18	Printing and recording services.....	11,431	0	0	1,979	0	125	782
15	19	Coke and refined petroleum products.....	281,766	0	125	224,518	0	314	2,090
16	19.1	Coke oven products.....	24,711	0	0	13	0	2	11
17	19.2	Refined petroleum products.....	257,055	0	125	224,505	0	312	2,079
18	20	Chemicals and chemical products.....	322,047	13,256	9,431	23,398	0	633	3,946
19	21	Basic pharmaceutical products and pharmaceutical preparations.....	16,445	0	0	1,861	0	162	1,004
20	22	Rubber and plastic products.....	37,174	0	374	12,554	0	345	2,148
21	23	Other non-metallic mineral products.....	237,900	16,446	42,374	31,866	0	208	1,326
22	23.1	Glass and glass products.....	69,352	0	0	8,771	0	50	315
23	23.2-9	Refractory products, cut, shaped and finished stone.....	168,548	16,446	42,374	23,095	0	158	1,010
24	24	Basic metals.....	544,049	286,507	385	24,876	0	499	3,138
25	24.1-3	Basic iron and steel and ferro-alloys, other products of steel.....	482,876	275,172	90	14,721	0	270	1,687
26	24.4	Basic precious and other non-ferrous metals.....	32,835	816	295	6,245	0	161	1,021
27	24.5	Casting services of metal.....	28,337	10,519	0	3,911	0	69	431
28	25	Fabricated metal products, except machinery and equipment.....	54,411	298	0	16,380	0	594	3,707
29	26	Computer, electronic and optical products.....	9,831	0	0	4,659	0	430	2,667
30	27	Electrical equipment.....	11,658	174	0	6,500	0	466	2,909
31	28	Machinery and equipment n.e.c.....	46,982	86	99	19,364	0	1,013	6,647
32	29	Motor vehicles, trailers and semi-trailers.....	51,690	688	0	17,323	0	1,853	12,999
33	30	Other transport equipment.....	10,031	0	0	3,762	0	279	1,780
34	31-32	Furniture, other manufacture goods.....	15,615	0	0	5,428	0	172	1,065
35	33	Repair and installation services of machinery and equipment.....	5,446	0	0	2,236	0	198	1,188
36	D (35)	Electricity, gas, steam and air conditioning.....	4,375,235	1,150,899	1,405,317	88,556	0	761	5,567
37	35.1/.3	Electricity, transmission and distribution services, steam.....	4,348,345	1,150,899	1,405,317	87,729	0	660	4,843
38	35.2	Manufactured gas.....	26,890	0	0	828	0	101	725
39	E	Water supply; sewerage, waste management and remediation services.....	74,288	0	0	63,567	0	2,710	55,183
40	36	Natural water; water treatment and supply services.....	1,106	0	0	1,023	0	55	967
41	37-39	Sewerage services; waste collection and materials recovery services.....	73,181	0	0	62,545	0	2,655	54,216
42	37	Sewerage services, sewerage sludge.....	6,196	0	0	5,838	0	670	5,152
43	38-39	Waste collection, treatment and disposal services.....	66,985	0	0	56,706	0	1,985	49,065
44	F	Constructions and construction works.....	120,034	0	0	102,338	0	5,346	75,200
45	41-42	Building and building construction works.....	47,065	0	0	41,349	0	2,391	30,059
46	43	Specialised construction works.....	72,969	0	0	60,989	0	2,956	45,141
47	G	Wholesale and retail trade services; repair services of motor vehicles.....	273,399	2,407	0	175,607	0	14,211	103,532
48	45	Wholesale and retail trade and repair services of motor vehicles.....	34,111	326	0	20,560	0	684	11,185
49	46	Wholesale trade services, except of motor vehicles and motorcycles.....	85,997	528	0	67,504	0	4,055	55,791
50	47	Retail trade services, except of motor vehicles and motorcycles.....	153,292	1,553	0	87,543	0	9,472	36,556
51	H	Transportation and storage services.....	448,253	0	0	404,300	0	4,372	361,473
52	49.1-2	Passenger rail transport services, freight rail transport services.....	17,408	0	0	15,971	0	10	15,805
53	49.3-5	Other passenger land transport services, transport service via pipeline.....	210,173	0	0	192,018	0	2,017	189,881
54	50	Water transport services.....	6,382	0	0	5,628	0	11	5,617
55	51	Air transport services.....	33,850	0	0	33,734	0	125	831
56	52	Warehousing and support services for transportation.....	119,567	0	0	102,578	0	768	97,514
57	53	Postal and courier services.....	60,872	0	0	54,371	0	1,441	51,826
58	I	Accommodation and food services.....	59,223	540	0	32,780	0	1,017	2,130
59	J	Information and communication services.....	47,935	0	0	30,133	0	2,171	20,719
60	K	Financial and insurance services.....	29,104	0	0	10,983	0	755	2,823
61	L	Real estate services.....	15,474	0	0	11,385	0	1,746	8,083
62	M	Professional, scientific and technical services.....	121,153	0	0	93,275	0	14,749	65,014
63	N	Administrative and support services.....	16,988	0	0	9,398	0	638	4,364
64	O	Public administration and defence services.....	112,875	4,628	2,169	57,635	0	7,129	21,509
65	P	Education services.....	70,913	310	0	21,282	0	221	1,379
66	Q	Human health and social work services.....	111,122	1,989	0	35,415	0	2,658	6,187
67	R-T	Other services.....	94,378	217	0	61,496	0	3,608	41,735
68		<b>All homogeneous branches.....</b>	<b>8,219,232</b>	<b>1,501,736</b>	<b>1,481,605</b>	<b>1,774,108</b>	<b>0</b>	<b>73,063</b>	<b>943,388</b>
69		Private households (domestic consumption).....	3,266,642	31,000	22,758	1,846,312	0	844,340	435,907
70		<b>All homogeneous branches and private households (domestic concept).....</b>	<b>11,485,873</b>	<b>1,532,736</b>	<b>1,504,363</b>	<b>3,620,420</b>	<b>0</b>	<b>917,403</b>	<b>1,379,295</b>

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 source 2010

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Mineral oil				Gases	Renewable energies and other non-renewable energy sources					Electricity	Nuclear energy	Remote heating	Other fossil sources <sup>2)</sup>	No.
Air fuel	Light fuel oil	Heavy fuel oil	Other mineral oil products		Together	Water and wind power, solar energy plant and other <sup>2)</sup>	biomass	Renewable energies	non-renewable waste, waste heat, etc. <sup>3)</sup>					
0	21,474	0	2,110	9,107	14,164	0	14,164	0	0	0	0	0	0	1
0	21,474	0	2,108	9,106	14,122	0	14,122	0	0	0	0	0	0	2
0	0	0	1	1	37	0	37	0	0	0	0	0	0	3
0	0	0	0	0	4	0	4	0	0	0	0	0	0	4
0	1,223	121	916	14,807	6,666	0	982	0	5,684	0	0	0	0	5
0	314	21	1	210	5,750	0	66	0	5,684	0	0	0	0	6
0	5	0	4	8,458	165	0	165	0	0	0	0	0	0	7
0	904	100	911	6,139	751	0	751	0	0	0	0	0	0	8
0	84,824	71,996	213,835	962,734	226,861	0	147,946	0	78,915	0	0	0	23,696	9
0	15,984	1,880	2,395	108,006	11,063	0	8,007	0	3,056	0	0	0	0	10
0	814	0	3	12,541	54	0	54	0	0	0	0	0	0	11
0	2,344	1,386	77	8,641	48,914	0	48,914	0	0	0	0	0	0	12
0	2,632	789	333	86,759	47,710	0	44,402	0	3,308	0	0	0	73	13
0	1,068	0	3	9,394	59	0	59	0	0	0	0	0	0	14
0	2,329	42,156	177,629	51,973	5,150	0	534	0	4,616	0	0	0	0	15
0	0	0	0	24,697	1	0	1	0	0	0	0	0	0	16
0	2,329	42,156	177,629	27,276	5,149	0	533	0	4,616	0	0	0	0	17
0	3,646	11,899	3,275	197,782	58,305	0	28,211	0	30,094	0	0	0	19,875	18
0	600	0	96	9,840	4,743	0	1,050	0	3,693	0	0	0	0	19
0	7,597	342	2,121	23,407	840	0	424	0	416	0	0	0	0	20
0	12,344	7,898	10,090	102,018	41,448	0	8,287	0	33,161	0	0	0	3,748	21
0	844	5,891	1,670	60,540	41	0	41	0	0	0	0	0	0	22
0	11,500	2,007	8,420	41,478	41,407	0	8,246	0	33,161	0	0	0	3,748	23
0	2,404	5,591	13,243	231,593	688	0	375	0	313	0	0	0	0	24
0	818	4,614	7,333	192,642	251	0	251	0	0	0	0	0	0	25
0	865	977	3,220	25,076	405	0	92	0	313	0	0	0	0	26
0	721	0	2,691	13,875	32	0	32	0	0	0	0	0	0	27
0	9,064	0	3,015	36,127	1,607	0	1,584	0	23	0	0	0	0	28
0	1,400	0	162	4,987	186	0	186	0	0	0	0	0	0	29
0	3,042	0	84	4,766	218	0	218	0	0	0	0	0	0	30
0	11,130	55	518	26,596	837	0	832	0	5	0	0	0	0	31
0	2,213	0	258	32,261	1,418	0	1,408	0	10	0	0	0	0	32
0	1,696	0	7	6,154	115	0	115	0	0	0	0	0	0	33
0	3,715	0	476	6,763	3,424	0	3,204	0	220	0	0	0	0	34
0	799	0	51	3,129	82	0	82	0	0	0	0	0	0	35
0	16,679	36,443	29,106	953,729	701,552	0	542,591	0	158,961	0	0	0	75,181	36
0	16,679	36,443	29,104	928,373	700,846	0	541,885	0	158,961	0	0	0	75,181	37
0	0	0	2	25,356	706	0	706	0	0	0	0	0	0	38
0	561	165	4,948	556	10,164	0	10,164	0	0	0	0	0	0	39
0	0	0	1	11	73	0	73	0	0	0	0	0	0	40
0	561	165	4,947	546	10,091	0	10,091	0	0	0	0	0	0	41
0	0	0	16	16	341	0	341	0	0	0	0	0	0	42
0	561	165	4,931	529	9,750	0	9,750	0	0	0	0	0	0	43
0	15,585	0	6,207	15,232	2,464	0	2,464	0	0	0	0	0	0	44
0	5,187	0	3,712	4,938	778	0	778	0	0	0	0	0	0	45
0	10,397	0	2,495	10,294	1,686	0	1,686	0	0	0	0	0	0	46
0	54,814	0	3,049	86,675	8,711	0	8,711	0	0	0	0	0	0	47
0	8,675	0	16	12,226	998	0	998	0	0	0	0	0	0	48
0	7,560	0	98	12,279	5,686	0	5,686	0	0	0	0	0	0	49
0	38,580	0	2,935	62,170	2,026	0	2,026	0	0	0	0	0	0	50
32,612	5,741	0	102	11,650	32,303	0	32,303	0	0	0	0	0	0	51
0	156	0	0	350	1,087	0	1,087	0	0	0	0	0	0	52
0	71	0	48	119	18,035	0	18,035	0	0	0	0	0	0	53
0	0	0	0	0	755	0	755	0	0	0	0	0	0	54
32,612	166	0	0	20	97	0	97	0	0	0	0	0	0	55
0	4,278	0	18	8,977	8,012	0	8,012	0	0	0	0	0	0	56
0	1,070	0	34	2,184	4,317	0	4,317	0	0	0	0	0	0	57
0	26,163	0	3,469	25,759	145	0	145	0	0	0	0	0	0	58
0	7,191	0	52	15,911	1,891	0	1,891	0	0	0	0	0	0	59
0	7,387	0	18	17,907	214	0	214	0	0	0	0	0	0	60
0	1,514	0	42	3,627	462	0	462	0	0	0	0	0	0	61
0	11,923	2	1,587	24,082	3,795	0	3,795	0	0	0	0	0	0	62
0	4,380	0	15	7,356	233	0	233	0	0	0	0	0	0	63
3,287	22,682	20	3,007	44,421	4,022	0	4,022	0	0	0	0	0	0	64
0	19,669	7	5	48,101	1,221	0	1,221	0	0	0	0	0	0	65
0	26,501	4	64	71,474	2,245	0	2,245	0	0	0	0	0	0	66
0	16,064	2	87	28,364	4,301	0	4,301	0	0	0	0	0	0	67
<b>35,899</b>	<b>344,376</b>	<b>108,760</b>	<b>268,622</b>	<b>2,341,493</b>	<b>1,021,413</b>	<b>0</b>	<b>777,853</b>	<b>0</b>	<b>243,560</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>98,877</b>	68
0	519,355	0	46,709	1,024,717	341,855	0	341,855	0	0	0	0	0	0	69
<b>35,899</b>	<b>863,731</b>	<b>108,760</b>	<b>315,331</b>	<b>3,366,210</b>	<b>1,363,267</b>	<b>0</b>	<b>1,119,707</b>	<b>0</b>	<b>243,560</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>98,877</b>	70



Table 3.5.2.4: Emission-relevant energy consumption by type of energy source 2013

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No.	CPA <sup>1)</sup>	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.....	187,481	24	0	139,660	0	1,101	117,288
2	01	Products of agriculture, hunting and related services.....	183,779	24	0	136,001	0	1,032	113,700
3	02	Products of forestry, logging and related services.....	2,567	0	0	2,527	0	63	2,462
4	03	Fish and other fishing products; aquaculture products.....	1,136	0	0	1,132	0	6	1,126
5	B	Mining and quarrying.....	33,108	765	11,873	5,723	0	253	4,032
6	05	Coal and lignite.....	10,758	115	9,724	814	0	20	646
7	06	Crude petroleum and natural gas.....	11,091	0	0	2,113	0	186	1,917
8	07-09	Metal ores, other mining and quarrying products.....	11,259	650	2,149	2,795	0	48	1,468
9	C	Manufactured products.....	1,962,506	328,241	70,546	386,809	0	8,537	61,514
10	10-12	Food products, beverages, tobacco products.....	145,095	3,652	4,647	19,229	0	833	5,828
11	13-15	Textiles, wearing apparel, leather and related products.....	12,067	312	0	2,148	0	111	777
12	16	Wood and products of wood and cork, except furniture.....	61,345	0	105	2,482	0	109	759
13	17	Paper and paper products.....	140,416	6,972	6,628	3,454	0	189	1,319
14	18	Printing and recording services.....	10,807	0	0	1,946	0	109	764
15	19	Coke and refined petroleum products.....	283,947	0	344	210,447	0	337	2,442
16	19.1	Coke oven products.....	23,647	0	0	18	0	2	15
17	19.2	Refined petroleum products.....	260,300	0	344	210,429	0	334	2,427
18	20	Chemicals and chemical products.....	282,477	5,967	10,316	30,236	0	599	4,172
19	21	Basic pharmaceutical products and pharmaceutical preparations.....	16,908	0	0	2,880	0	146	1,013
20	22	Rubber and plastic products.....	31,813	0	352	7,062	0	328	2,282
21	23	Other non-metallic mineral products.....	235,031	14,021	41,572	20,882	0	204	1,440
22	23.1	Glass and glass products.....	65,762	0	0	4,116	0	46	324
23	23.2-9	Refractory products, cut, shaped and finished stone.....	169,269	14,021	41,572	16,766	0	158	1,116
24	24	Basic metals.....	528,303	296,538	6,582	16,309	0	531	3,709
25	24.1-3	Basic iron and steel and ferro-alloys, other products of steel.....	476,018	287,420	6,560	10,409	0	285	1,993
26	24.4	Basic precious and other non-ferrous metals.....	29,462	1,274	22	4,235	0	176	1,224
27	24.5	Casting services of metal.....	22,823	7,844	0	1,666	0	71	493
28	25	Fabricated metal products, except machinery and equipment.....	57,707	290	0	15,868	0	779	5,512
29	26	Computer, electronic and optical products.....	11,306	0	0	4,446	0	400	2,850
30	27	Electrical equipment.....	13,924	115	0	5,027	0	448	3,118
31	28	Machinery and equipment n.e.c.....	43,891	115	0	16,901	0	1,007	7,202
32	29	Motor vehicles, trailers and semi-trailers.....	54,201	259	0	17,938	0	1,814	14,104
33	30	Other transport equipment.....	9,428	0	0	2,528	0	250	1,809
34	31-32	Furniture, other manufacture goods.....	17,945	0	0	4,827	0	154	1,099
35	33	Repair and installation services of machinery and equipment.....	5,895	0	0	2,200	0	189	1,315
36	D (35)	Electricity, gas, steam and air conditioning.....	4,324,864	1,244,709	1,515,605	75,887	0	776	6,929
37	35.1./3	Electricity, transmission and distribution services, steam.....	4,307,750	1,244,709	1,515,605	74,841	0	671	5,991
38	35.2	Manufactured gas.....	17,115	0	0	1,046	0	104	939
39	E	Water supply; sewerage, waste management and remediation services.....	98,209	0	0	59,279	0	2,404	50,183
40	36	Natural water; water treatment and supply services.....	1,013	0	0	951	0	43	907
41	37-39	Sewerage services; waste collection and materials recovery services.....	97,196	0	0	58,328	0	2,361	49,276
42	37	Sewerage services, sewerage sludge.....	5,834	0	0	5,541	0	586	4,939
43	38-39	Waste collection, treatment and disposal services.....	91,363	0	0	52,787	0	1,775	44,338
44	F	Constructions and construction works.....	128,180	0	0	109,919	0	3,281	84,220
45	41-42	Building and building construction works.....	48,413	0	0	43,018	0	1,328	33,619
46	43	Specialised construction works.....	79,767	0	0	66,901	0	1,953	50,601
47	G	Wholesale and retail trade services; repair services of motor vehicles.....	271,121	224	0	178,004	0	13,735	106,991
48	45	Wholesale and retail trade and repair services of motor vehicles.....	33,283	77	0	19,106	0	686	9,675
49	46	Wholesale trade services, except of motor vehicles and motorcycles.....	88,583	61	0	69,637	0	3,975	57,015
50	47	Retail trade services, except of motor vehicles and motorcycles.....	149,254	85	0	89,261	0	9,073	40,301
51	H	Transportation and storage services.....	443,776	0	0	403,374	0	4,237	364,113
52	49.1-2	Passenger rail transport services, freight rail transport services.....	16,197	0	0	15,018	0	9	14,912
53	49.3-5	Other passenger land transport services, transport service via pipeline.....	208,891	0	0	192,581	0	1,859	190,427
54	50	Water transport services.....	5,829	0	0	5,746	0	9	5,737
55	51	Air transport services.....	29,491	0	0	29,395	0	109	814
56	52	Warehousing and support services for transportation.....	121,594	0	0	104,863	0	766	98,842
57	53	Postal and courier services.....	61,773	0	0	55,772	0	1,483	53,382
58	I	Accommodation and food services.....	58,322	111	0	31,998	0	1,014	2,479
59	J	Information and communication services.....	46,338	0	0	28,209	0	1,961	19,164
60	K	Financial and insurance services.....	28,221	0	0	10,979	0	788	3,440
61	L	Real estate services.....	15,382	0	0	11,759	0	1,796	8,554
62	M	Professional, scientific and technical services.....	121,640	0	0	91,909	0	13,786	65,356
63	N	Administrative and support services.....	16,790	0	0	9,312	0	658	4,718
64	O	Public administration and defence services.....	100,292	102	0	48,858	0	6,085	22,056
65	P	Education services.....	67,330	71	0	19,680	0	227	1,450
66	Q	Human health and social work services.....	107,576	134	0	33,653	0	2,867	7,157
67	R-T	Other services.....	87,565	51	0	58,753	0	3,266	40,468
68		<b>All homogeneous branches.....</b>	<b>8,098,702</b>	<b>1,574,431</b>	<b>1,598,024</b>	<b>1,703,764</b>	<b>0</b>	<b>66,773</b>	<b>970,113</b>
69		Private households (domestic consumption).....	3,177,477	8,262	20,193	1,868,443	0	781,052	517,351
70		<b>All homogeneous branches and private households (domestic concept).....</b>	<b>11,276,180</b>	<b>1,582,693</b>	<b>1,618,217</b>	<b>3,572,207</b>	<b>0</b>	<b>847,825</b>	<b>1,487,464</b>

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 3.5.2.4: Emission-relevant energy consumption by type of energy source 2013

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Mineral oil				Gases	Renewable energies and other non-renewable energy sources					Electricity	Nuclear energy	Remote heating	Other fossil sources <sup>2)</sup>	No.
Air fuel	Light fuel oil	Heavy fuel oil	Other mineral oil products		Together	Water and wind power, solar energy plant and other <sup>2)</sup>	biomass	Renewable energies	non-renewable waste, waste heat, etc. <sup>3)</sup>					
0	19,588	0	1,683	7,217	40,579	0	40,579	0	0	0	0	0	0	1
0	19,588	0	1,681	7,217	40,536	0	40,536	0	0	0	0	0	0	2
0	0	0	2	1	40	0	40	0	0	0	0	0	0	3
0	0	0	0	0	4	0	4	0	0	0	0	0	0	4
0	768	72	597	14,298	449	0	449	0	0	0	0	0	0	5
0	116	32	1	56	48	0	48	0	0	0	0	0	0	6
0	5	0	5	8,799	179	0	179	0	0	0	0	0	0	7
0	647	40	592	5,443	222	0	222	0	0	0	0	0	0	8
0	54,993	45,772	215,993	975,874	197,919	0	128,671	0	69,248	0	0	0	3,118	9
0	11,212	597	760	114,683	2,884	0	2,769	0	115	0	0	0	0	10
0	1,108	149	3	9,559	49	0	49	0	0	0	0	0	0	11
0	1,188	267	159	7,497	51,260	0	51,260	0	0	0	0	0	0	12
0	1,246	454	246	79,651	43,651	0	40,652	0	2,999	0	0	0	60	13
0	1,069	0	3	8,814	48	0	48	0	0	0	0	0	0	14
0	959	30,282	176,427	65,373	7,783	0	1,109	0	6,674	0	0	0	0	15
0	0	0	0	23,628	1	0	1	0	0	0	0	0	0	16
0	959	30,282	176,427	41,745	7,782	0	1,108	0	6,674	0	0	0	0	17
0	2,904	10,259	12,303	208,487	27,471	0	2,253	0	25,218	0	0	0	0	18
0	533	0	1,188	12,374	1,654	0	1,104	0	550	0	0	0	0	19
0	3,339	111	1,002	23,801	598	0	524	0	74	0	0	0	0	20
0	5,362	2,907	10,969	103,658	51,841	0	18,543	0	33,298	0	0	0	0	21
0	316	2,312	1,117	61,571	75	0	47	0	28	0	0	0	0	22
0	5,046	595	9,852	42,086	51,766	0	18,496	0	33,270	0	0	0	0	23
0	2,114	676	9,279	208,384	490	0	242	0	248	0	0	0	0	24
0	409	80	7,643	171,505	125	0	125	0	0	0	0	0	0	25
0	647	596	1,593	23,597	334	0	86	0	248	0	0	0	0	26
0	1,059	0	44	13,282	31	0	31	0	0	0	0	0	0	27
0	7,157	0	2,419	40,100	1,449	0	1,424	0	25	0	0	0	0	28
0	1,184	0	11	6,697	164	0	164	0	0	0	0	0	0	29
0	1,358	0	103	8,587	196	0	196	0	0	0	0	0	0	30
0	8,180	71	442	25,982	893	0	890	0	3	0	0	0	0	31
0	1,825	0	195	34,671	1,333	0	1,331	0	2	0	0	0	0	32
0	462	0	7	6,801	99	0	99	0	0	0	0	0	0	33
0	3,206	0	367	7,136	5,981	0	5,939	0	42	0	0	0	0	34
0	586	0	110	3,620	75	0	75	0	0	0	0	0	0	35
0	14,183	29,331	24,668	764,896	611,692	0	472,956	0	138,736	0	0	0	112,076	36
0	14,183	29,331	24,665	750,276	610,243	0	471,507	0	138,736	0	0	0	112,076	37
0	0	0	3	14,620	1,449	0	1,449	0	0	0	0	0	0	38
0	636	1,998	4,057	641	38,289	0	38,289	0	0	0	0	0	0	39
0	0	0	1	0	61	0	61	0	0	0	0	0	0	40
0	636	1,998	4,056	641	38,228	0	38,228	0	0	0	0	0	0	41
0	0	0	16	15	278	0	278	0	0	0	0	0	0	42
0	636	1,998	4,040	626	37,950	0	37,950	0	0	0	0	0	0	43
0	17,461	0	4,956	15,912	2,348	0	2,348	0	0	0	0	0	0	44
0	5,112	0	2,958	4,648	747	0	747	0	0	0	0	0	0	45
0	12,349	0	1,998	11,264	1,602	0	1,602	0	0	0	0	0	0	46
0	54,748	0	2,530	85,328	7,565	0	7,565	0	0	0	0	0	0	47
0	8,726	0	19	13,437	662	0	662	0	0	0	0	0	0	48
0	8,537	0	110	13,816	5,070	0	5,070	0	0	0	0	0	0	49
0	37,485	0	2,401	58,074	1,833	0	1,833	0	0	0	0	0	0	50
28,259	6,652	0	113	11,937	28,465	0	28,465	0	0	0	0	0	0	51
0	96	0	0	230	949	0	949	0	0	0	0	0	0	52
0	243	0	51	116	16,194	0	16,194	0	0	0	0	0	0	53
0	0	0	0	0	83	0	83	0	0	0	0	0	0	54
28,259	212	0	0	10	86	0	86	0	0	0	0	0	0	55
0	5,234	0	21	9,327	7,404	0	7,404	0	0	0	0	0	0	56
0	867	0	40	2,253	3,749	0	3,749	0	0	0	0	0	0	57
0	25,739	0	2,766	26,071	141	0	141	0	0	0	0	0	0	58
0	7,029	0	54	16,639	1,491	0	1,491	0	0	0	0	0	0	59
0	6,730	0	22	17,038	204	0	204	0	0	0	0	0	0	60
0	1,360	0	50	3,226	397	0	397	0	0	0	0	0	0	61
0	11,407	1	1,358	26,624	3,108	0	3,108	0	0	0	0	0	0	62
0	3,918	0	18	7,246	232	0	232	0	0	0	0	0	0	63
2,049	16,257	7	2,402	41,141	10,192	0	10,192	0	0	0	0	0	0	64
0	17,994	3	6	45,136	2,444	0	2,444	0	0	0	0	0	0	65
0	23,548	1	79	69,581	4,208	0	4,208	0	0	0	0	0	0	66
0	14,928	1	90	23,191	5,571	0	5,571	0	0	0	0	0	0	67
<b>30,308</b>	<b>297,940</b>	<b>77,186</b>	<b>261,444</b>	<b>2,151,995</b>	<b>955,294</b>	<b>0</b>	<b>747,310</b>	<b>0</b>	<b>207,984</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>115,194</b>	<b>68</b>
0	523,346	0	46,693	972,853	307,727	0	307,727	0	0	0	0	0	0	69
<b>30,308</b>	<b>821,286</b>	<b>77,186</b>	<b>308,137</b>	<b>3,124,848</b>	<b>1,263,021</b>	<b>0</b>	<b>1,055,037</b>	<b>0</b>	<b>207,984</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>115,194</b>	<b>70</b>

**Table 3.5.3: Emission relevant energy consumption of industries and households**  
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No.	WZ 2008 Code <sup>1)</sup>	Industries and private households <sup>2) 3)</sup>	2000	2005	2010	2011	2012	2013
1	A	Agriculture, forestry and fishing.....	147,842	152,945	394,457	436,241	358,373	387,601
2	01	Crop and animal production, hunting and related services.....	144,334	149,929	390,952	432,558	354,711	383,899
3	02	Forestry and logging.....	1,838	2,051	2,344	2,571	2,551	2,567
4	03	Fishing and aquaculture.....	1,670	965	1,161	1,112	1,110	1,136
5	B	Mining and quarrying.....	179,944	181,538	140,818	132,375	63,829	58,838
6	05	Mining of coal and lignite.....	142,305	152,546	118,024	111,165	43,925	36,488
7	06	Extraction of crude petroleum and natural gas.....	22,033	14,833	10,364	10,680	10,335	11,091
8	07-09	Mining of metal ores, other mining and quarrying.....	15,606	14,159	12,430	10,530	9,569	11,259
9	C	Manufacturing.....	2,361,536	2,272,283	2,346,634	2,337,462	2,225,527	2,268,937
10	10-12	Manufacture of food products, beverages and tobacco products.....	176,903	178,661	189,086	183,320	182,018	186,208
11	13-15	Manufacture of textiles, wearing apparel, leather.....	29,612	26,716	15,027	14,329	13,847	12,421
12	16	Manufacture of wood and products of wood and cork.....	25,582	47,202	62,655	69,469	44,962	61,345
13	17	Manufacture of paper and paper products.....	143,640	263,472	192,902	171,575	157,754	169,701
14	18	Printing and reproduction of recorded media.....	13,447	13,406	11,431	10,227	11,310	10,807
15	19	Manufacture of coke and refined petroleum products.....	389,228	379,197	337,040	338,433	324,529	336,803
16	19.1	Manufacture of coke oven products.....	50,385	25,764	26,251	24,700	22,989	23,647
17	19.2	Manufacture of refined petroleum products.....	338,842	353,433	310,789	313,733	301,541	313,156
18	20	Manufacture of chemicals and chemical products 3).....	382,252	307,755	429,455	442,221	410,654	394,772
19	21	Manufacture of basic pharmaceutical products.....	42,285	19,256	16,445	16,130	17,685	16,908
20	22	Manufacture of rubber and plastic products.....	32,846	32,288	37,174	31,155	30,620	31,813
21	23	Manufacture of other non-metallic mineral products.....	263,095	210,796	235,316	245,372	235,581	233,420
22	23.1	Manufacture of glass and glass products.....	80,463	70,175	69,352	71,182	65,298	65,762
23	23.2	Manufacture of refractory products, cutting and finishing of stone.....	182,632	140,621	165,963	174,190	170,284	167,658
24	24	Manufacture of basic metals.....	657,936	584,091	608,003	610,192	591,723	594,277
25	24.1-3	Iron and steel.....	595,467	527,962	546,831	550,442	534,274	541,992
26	24.4	Manufacture of basic precious and non-ferrous metals.....	38,704	32,763	32,835	30,858	29,419	29,462
27	24.5	Casting of metals.....	23,764	23,367	28,337	28,893	28,030	22,823
28	25	Manufacture of fabricated metal products.....	55,326	52,851	54,411	53,515	52,703	57,707
29	26	Manufacture of computer, electronic and optical products.....	14,721	11,567	9,831	9,655	10,649	11,306
30	27	Manufacture of electrical equipment.....	11,775	10,747	11,658	12,430	10,856	13,924
31	28	Manufacture of machinery and equipment n.e.c.....	47,507	50,153	47,278	43,279	44,532	44,175
32	29	Manufacture of motor vehicles, trailers and semi-trailers.....	52,496	60,835	57,830	59,277	57,484	60,082
33	30	Manufacture of other transport equipment.....	9,733	9,235	10,031	8,168	8,522	9,428
34	31-32	Manufacture of furniture, other manufacturing.....	10,797	11,965	15,615	13,611	14,749	17,945
35	33	Repair and installation of machinery and equipment.....	2,355	2,091	5,446	5,103	5,347	5,895
36	D (35)	Electricity, gas, steam and air conditioning supply.....	3,239,366	3,666,831	3,643,246	3,571,161	3,669,399	3,677,313
37	35.1./3	Electric power generation, transmission and distribution, steam.....	3,238,907	3,633,685	3,616,357	3,550,319	3,650,979	3,660,199
38	35.2	Manufacture of gas; distribution of gaseous fuels through mains.....	459	33,146	26,890	20,841	18,420	17,115
39	E	Water supply; sewerage, waste management and remediation activities.....	101,344	67,539	74,288	70,416	66,031	98,209
40	36	Water collection, treatment and supply.....	482	582	1,106	1,028	982	1,013
41	37-39	Sewerage, waste collection, treatment and disposal activities.....	100,862	66,956	73,181	69,388	65,049	97,196
42	37	Sewerage.....	9,156	6,067	6,196	5,874	5,720	5,834
43	38-39	Waste collection, treatment and disposal activities.....	91,706	60,890	66,985	63,514	59,329	91,363
44	F	Construction.....	150,257	108,599	120,034	123,764	122,940	128,180
45	41-42	Construction of buildings, civil engineering.....	74,657	53,048	47,065	47,753	46,931	48,413
46	43	Specialised construction activities.....	75,600	55,551	72,969	76,010	76,009	79,767
47	G	Wholesale and retail trade; repair of motor vehicles and motorcycles.....	329,418	296,475	273,399	261,914	258,298	271,121
48	45	Wholesale and retail trade and repair of motor vehicles.....	41,932	31,652	34,111	30,495	30,992	33,283
49	46	Wholesale trade; except of motor vehicles and motorcycles.....	113,998	102,364	85,997	86,397	84,913	88,583
50	47	Retail trade; except of motor vehicles and motorcycles.....	173,489	162,460	153,292	145,022	142,394	149,254
51	H	Transportation and storage.....	409,308	413,257	448,314	450,878	442,010	443,853
52	49.1-2	Passenger rail transport, interurban, freight rail transport.....	32,098	23,725	17,469	17,549	16,274	16,274
53	49.3-5	Other passenger land transport, transport via pipeline.....	137,835	149,972	210,173	212,576	208,429	208,891
54	50	Water transport.....	14,051	15,889	6,382	6,911	6,550	5,829
55	51	Air transport.....	46,343	41,639	33,850	31,174	31,436	29,491
56	52	Warehousing and support activities for transportation.....	131,599	134,512	119,567	121,432	118,458	121,594
57	53	Postal and courier activities.....	47,382	47,519	60,872	61,236	60,863	61,773
58	I	Accommodation and food service activities.....	68,618	57,771	59,223	55,821	54,296	58,322
59	J	Information and communication.....	66,519	69,480	47,935	45,510	44,261	46,338
60	K	Financial and insurance activities.....	31,976	30,450	29,104	25,805	26,288	28,221
61	L	Real estate activities.....	12,713	15,839	15,474	14,917	15,164	15,382
62	M	Professional, scientific and technical activities.....	114,988	113,690	121,153	115,374	114,996	121,640
63	N	Administrative and support service activities.....	17,124	66,072	16,988	16,243	15,848	16,790
64	O	Public administration and defence; compulsory social security.....	122,405	103,432	112,875	101,064	96,396	100,292
65	P	Education.....	77,506	76,193	70,913	64,263	62,986	67,330
66	Q	Human health and social work activities.....	97,622	99,029	111,122	101,288	102,746	107,576
67	R-t	Other service activities.....	143,415	115,339	94,378	85,082	85,877	87,565
68		<b>All industries.....</b>	<b>7,671,904</b>	<b>7,906,763</b>	<b>8,120,354</b>	<b>8,009,576</b>	<b>7,825,264</b>	<b>7,983,509</b>
69		Private households (domestic consumption).....	3,296,368	3,277,372	3,266,642	2,989,342	3,042,044	3,177,477
70		<b>All industries and private households (residents concept).....</b>	<b>10,968,272</b>	<b>11,184,135</b>	<b>11,386,996</b>	<b>10,998,918</b>	<b>10,867,308</b>	<b>11,160,986</b>

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.