

Economy and Use of Environmental Resources

Tables on Environmental-Economic Accounting
Part 2: Energy



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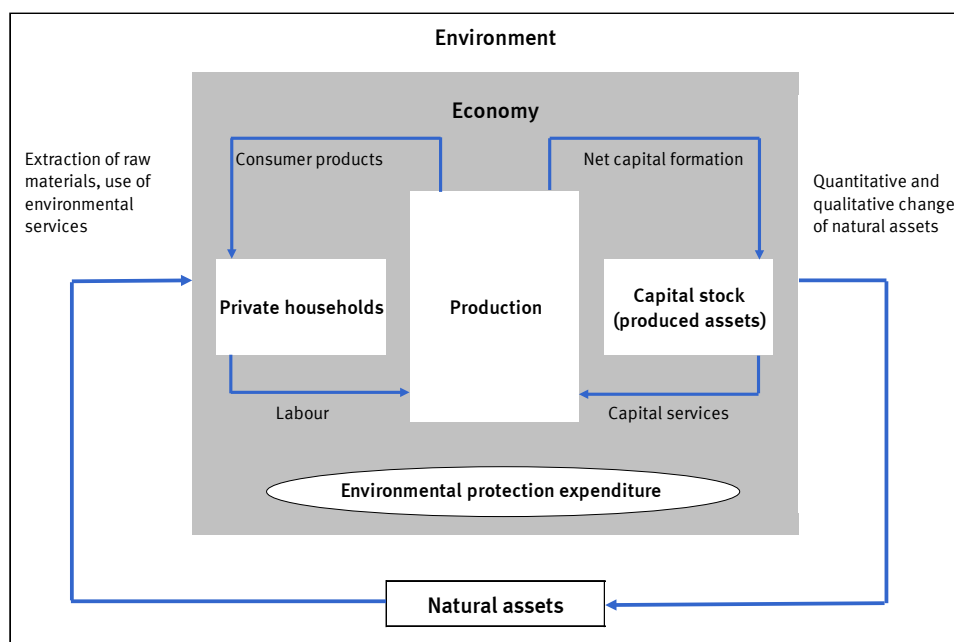
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1 Environmental-Economic Accounting of the Federal Statistical Office

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

Figure 1: Interrelationship economy environment



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

¹ Both are shown in the simplified form in the diagram.

1 Environmental-Economic Accounting of the Federal Statistical Office

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.

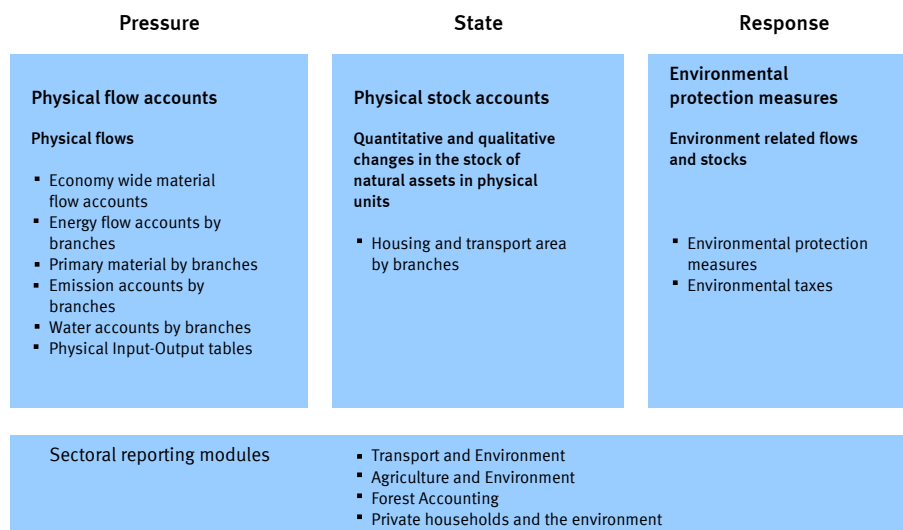
Environmental economic accounts and national accounts describe two dimensions of sustainable development– economy and environment – and their interrelationship. Therefore they provide an important and useful data base for political discussions concerning sustainability.

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

1 Environmental-Economic Accounting of the Federal Statistical Office

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.

1 Environmental-Economic Accounting of the Federal Statistical Office

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

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

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

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

2 Overview on classification

2.1 Classification of homogeneous branches

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

2 Overview on classification

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

2 Overview on classification

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

2 Overview on classification

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

2 Overview on classification

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

2 Overview on classification

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

2 Overview on classification

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

2 Overview on classification

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

3 Abbreviations and symbols

Abbreviations – general

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

Abbreviations – units of measure

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

3 Abbreviations and symbols

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

Explanation of symbols

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

Deviations in the totals may occur because of rounding off.

Note

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

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

4 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 a part of environmental economic accounting. This data is supplemented by other sources¹. The energy balances sheet 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 2000 to 2015.

A detailed description of the methods of the energy accounts, their content and application is available in the web under: www.destatis.de, Publications; Specialized publications; Environmental-Economic Accounting; Material and Energy flows; Publications in the field of energy consumption.

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 **resident 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.

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.

4 General notes

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 utilization 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 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 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 2015 – average. There by 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 eliminated when determining consumption.

4 General notes

Table 3.3.6.8 presents the results on energy consumption for room-heating by different types of buildings (detached houses, two-family houses, apartment houses). The calculation is based on data from “CO₂-Online” (Internet: www.co2online.de) on specific energy consumption per square meter for different types of buildings. Data on the kind of heating by energy sources are taken from the “Mikrozensus” survey.

Cumulated energy consumption

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

In order to calculate total indirect energy consumption energy consumption related to imports has to be accounted for. For this purpose actual energy inputs of the energy sectors and for other energy-intensive industries for the most important countries of origin are taken into account. For other industries the domestic production technology assumption is used. Total embodied energy is estimated by applying the input-output analysis on basis of hybrid (with monetary and physical values) input-output tables. The figures for industries presented for 2012 in the revised classification of NACE 2008.

Emission relevant energy

Emission-relevant energy consumption (**tables 3.5**) 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**).

Glossary

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

No.	Specification	Unit	2000	2005	2010	2011	2012	2013	2014	2015
Energy										
1	Production of primary domestic energy.....	petajoules	3,793	4,099	4,155	4,246	4,124	4,109	4,033	4,076
2	Hard coal.....	petajoules	1,012	756	387	361	324	229	230	185
3	Brown coal (lignite).....	petajoules	1,528	1,611	1,535	1,595	1,676	1,660	1,617	1,608
4	Crude oil.....	petajoules	131	153	107	112	111	112	104	103
5	Gases.....	petajoules	649	598	462	459	404	389	311	290
	including:									
6	Natural gas, petroleum gas.....	petajoules	638	588	452	447	391	374	300	280
7	Renewable energies 1.....	petajoules	417	769	1,421	1,463	1,378	1,510	1,544	1,666
8	Other energy sources 2.....	petajoules	56	211	244	255	231	208	226	224
9	Imports.....	petajoules	11,904	12,748	11,876	11,205	11,208	11,766	11,346	11,799
	including:									
10	Crude oil.....	petajoules	4,430	4,824	3,963	3,854	3,977	3,860	3,802	3,880
11	Natural gas.....	petajoules	2,676	3,311	3,307	3,154	3,110	3,440	3,163	3,607
12	Hard coal.....	petajoules	740	994	1,204	1,281	1,313	1,509	1,451	1,456
13	Exports.....	petajoules	1,442	2,148	1,837	1,672	1,778	1,985	2,074	2,509
14	Primary domestic energy consumption.....	petajoules	14,401	14,558	14,217	13,599	13,447	13,822	13,180	13,262
15	Final energy consumption 3.....	petajoules	9,235	9,127	9,294	8,866	8,919	9,179	8,699	8,898
16	Manufacturing.....	petajoules	2,421	2,514	2,592	2,634	2,587	2,551	2,545	2,548
17	Small consumers (GHD).....	petajoules	1,478	1,437	1,483	1,346	1,345	1,460	1,350	1,428
18	Road traffic.....	petajoules	2,358	2,150	2,109	2,133	2,117	2,167	2,187	2,191
19	Rail-, airtraffic and navy.....	petajoules	393	436	434	420	441	444	429	429
20	Private households.....	petajoules	2,584	2,591	2,676	2,333	2,427	2,556	2,188	2,302
	including:									
21	Electricity.....	petajoules	1,780	1,864	1,899	1,876	1,884	1,884	1,846	1,853
22	Natural gas.....	petajoules	2,204	2,131	2,247	2,038	2,081	2,184	1,956	2,057
23	Light fuel oil.....	petajoules	1,149	1,025	844	701	750	806	679	660
24	Non-energetic consumption.....	petajoules	1,068	1,114	1,034	1,027	976	972	990	961
25	Transformation input.....	petajoules	11,617	12,357	11,458	11,066	10,858	10,796	10,600	10,666
26	Electricity power generation.....	petajoules	5,335	5,537	5,511	5,186	5,061	5,119	5,012	4,962
27	Water and wind power, solar energy plant and biomass.....	petajoules	110	281	576	642	734	643	683	725
28	Transformation output.....	petajoules	8,307	8,959	8,167	8,002	8,000	7,885	7,747	7,892
	including: electricity.....	petajoules	2,071	2,234	2,261	2,192	2,267	2,299	2,260	2,329
30	from renewable energies 4.....	petajoules	130	225	377	445	517	548	585	674
31	Transformation losses.....	petajoules	3,310	3,398	3,291	3,064	2,858	2,911	2,854	2,774
32	Internal consumption of transformation sectors.....	petajoules	565	632	546	557	523	533	509	539
33	Supply of domestic energy 5.....	petajoules	22,707	23,518	22,384	21,601	21,447	21,707	20,926	21,153
Socio-economic data										
34	Gross domestic product (GDP, price-adjusted).....	2010 = 100	97	100	106	110	111	111	113	115
35	Inhabitants.....	million	81.5	81.3	80.3	80.3	80.4	80.6	81.0	81.7
36	Gross value added, Manufacturing (price-adjusted).....	2010 = 100	95	100	106	115	113	113	119	121
37	Imports (cif, current prices) 6.....	EUR bn	646.8	751.9	956.0	1,079.3	1,100.3	1,114.6	1,137.3	1,183.4
38	Energy sources.....	EUR bn	54.6	86.2	104.2	135.0	144.6	145.0	130.5	.
39	Crude oil, natural gas.....	EUR bn	33.4	53.3	64.2	84.3	91.8	89.7	78.4	62.6
Energy intensity										
40	Primary energy consumption / GDP (price-adjusted).....	2005 = 100	102	100	92	85	83	85	80	79
41	Final energy consumption / GDP (price-adjusted).....	2005 = 100	104	100	96	88	88	90	84	84
42	Energy intensity - manufacturing.....	2005 = 100	102	100	97	91	91	90	85	84
Energy consumption per inhabitants										
43	Primary energy consumption.....	MJ/inh.	176.8	179.0	177.1	169.4	167.2	171.4	162.7	162.4
44	Final energy consumption households.....	MJ/inh.	31.7	31.9	33.3	29.1	30.2	31.7	27.0	28.2
45	Final energy consumption households.....	kwh/inh.	11,421	11,467	11,998	10,465	10,866	11,410	9,727	10,144
Energy efficiency										
46	Final energy consumption / primary energy consumption.....	%	64.1	62.7	65.4	65.2	66.3	66.4	66.0	67.1
47	Efficiency heat power stations.....	%	39.5	41.3	42.0	42.2	42.0	41.8	41.5	42.4
Dependency on imports										
48	Imports / primary energy consumption 7.....	%	72.0	72.1	69.8	69.3	69.3	70.1	69.6	69.3
49	Imports / energy consumption.....	%	52.4	54.2	53.1	51.9	52.3	54.2	54.2	55.8

* 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 For railways for 2008 to 2011 figures were used which deviate from the national energy balance.

4 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 2017.

5 Including ships bunkering and bunkering of airlines.

6 As of 2010 revised figures from Subject-matter series 18, series 4: National Accounts, release date: August 2017.

7 Net imports = imports minus exports minus bunkering.

Table 3.1.1: Supply and use of energy - aggregates and indices*

No.	Specification	Unit	2000	2005	2010	2011	2012	2013	2014	2015
			percentage of total consumption							
1	Production of primary domestic energy	%	100	100	100	100	100	100	100	100
2	Hard coal.....	%	26.7	18.4	9.3	8.5	7.9	5.6	5.7	4.5
3	Brown coal (lignite).....	%	40.3	39.3	36.9	37.6	40.6	40.4	40.1	39.5
4	Crude oil.....	%	3.5	3.7	2.6	2.6	2.7	2.7	2.6	2.5
5	Gases.....	%	17.1	14.6	11.1	10.8	9.8	9.5	7.7	7.1
			including:							
6	Natural gas, petroleum gas.....	%	16.8	14.3	10.9	10.5	9.5	9.1	7.4	6.9
7	Renewable energies 1.....	%	11.0	18.8	34.2	34.5	33.4	36.8	38.3	40.9
8	Other energy sources 2.....	%	1.5	5.2	5.9	6.0	5.6	5.1	5.6	5.5
			percentage of total imports							
9	Imports	%	100	100	100	100	100	100	100	100
			including:							
10	Crude oil.....	%	37.2	37.8	33.4	34.4	35.5	32.8	33.5	32.9
11	Natural gas.....	%	22.5	26.0	27.8	28.1	27.7	29.2	27.9	30.6
12	Hard coal.....	%	6.2	7.8	10.1	11.4	11.7	12.8	12.8	12.3
13	Primary domestic energy consumption	2005 = 100	99	100	98	93	92	95	91	91
			percentage of total final consumption							
14	Final energy consumption 3	%	100	100	100	100	100	100	100	100
15	Manufacturing.....	%	26.2	27.5	27.9	29.7	29.0	27.8	29.3	28.6
16	Small consumers (GHD).....	%	16.0	15.7	16.0	15.2	15.1	15.9	15.5	16.0
17	Road traffic.....	%	25.5	23.6	22.7	24.1	23.7	23.6	25.1	24.6
18	Rail-, airtraffic and navy.....	%	4.3	4.8	4.7	4.7	4.9	4.8	4.9	4.8
19	Private households.....	%	28.0	28.4	28.8	26.3	27.2	27.8	25.2	25.9
			including:							
20	Electricity.....	%	19.3	20.4	20.4	21.2	21.1	20.5	21.2	20.8
21	Natural gas.....	%	23.9	23.3	24.2	23.0	23.3	23.8	22.5	23.1
22	Light fuel oil.....	%	12.4	11.2	9.1	7.9	8.4	8.8	7.8	7.4
			transformation input in percentage of total transformation input electricity power generation							
23	Electricity power generation	%	100	100	100	100	100	100	100	100
24	Water and wind power, solar energy plant and biomass.....	%	2.1	5.1	10.5	12.4	14.5	12.6	13.6	14.6
			percentage of total transformation output							
25	Transformation output	%	100	100	100	100	100	100	100	100
			including: electricity.....							
26	from renewable energies 4.....	%	24.9	24.9	27.7	27.4	28.3	29.2	29.2	29.5
27	from renewable energies 4.....	%	6.2	10.2	17.0	20.3	23.5	25.1	27.3	31.6
28	Transformation losses	%	39.8	37.9	40.3	38.3	35.7	36.9	36.8	35.2
29	Supply of domestic energy 5	2005 = 100	97	100	95	92	91	92	89	90
			Socio-economic data							
30	Gross domestic product (GDP, price-adjusted).....	2005 = 100	97	100	106	110	111	111	113	115
31	Inhabitants.....	2005 = 100	100	100	99	99	99	99	100	100
32	Gross value added, Manufacturing (price-adjusted).....	2005 = 100	95	100	106	115	113	113	119	121
33	Importe (in jeweiligen Preisen) 6.....	2005 = 100	86	100	127	144	146	148	151	157
34	Energiegüter.....	2005 = 100	63	100	121	157	168	168	151	.
35	Erdöl, Erdgas.....	2005 = 100	63	100	120	158	172	168	147	117
			Energy intensity							
36	Primary energy consumption / GDP (price-adjusted).....	2005 = 100	102	100	92	85	83	85	80	79
37	Final energy consumption / GDP (price-adjusted).....	2005 = 100	104	100	96	88	88	90	84	84
38	Energy intensity - manufacturing.....	2005 = 100	102	100	97	91	91	90	85	84
			Energy consumption per inhabitants							
39	Primary energy consumption.....	2005 = 100	99	100	99	95	93	96	91	91
40	Final energy consumption households.....	2005 = 100	100	100	105	91	95	100	85	88
			Energy efficiency							
41	Final energy consumption / primary energy consumption.....	2005 = 100	102	100	104	104	106	106	105	107
42	Efficiency heat power stations.....	2005 = 100	96	100	102	102	102	101	100	103
			Dependency on imports							
43	Imports / primary energy consumption 7.....	%	72.0	72.1	69.8	69.3	69.3	70.1	69.6	69.3
44	Imports / energy consumption.....	%	52.4	54.2	53.1	51.9	52.3	54.2	54.2	55.8

* 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 For railways for 2008 to 2011 figures were used which deviate from the national energy balance.

4 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 2017.

5 Including ships bunkering and bunkering of airlines.

6 As of 2010 revised figures from Subject-matter series 18, series 4: National Accounts, release date: August 2017.

7 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
terajoules

No.	Specification	2000	2005	2010	2011	2012
	Supply and use of energy					
1	Total transformation input.....	11,616,589	12,357,410	11,458,110	11,066,184	10,858,126
2	of which: power station input 1.....	5,687,351	6,076,734	6,085,106	5,724,783	5,617,550
3	Other transformation losses.....	5,624,300	5,906,234	4,960,099	4,927,404	4,955,355
4	Other energy sources.....	304,938	374,442	412,905	413,997	285,221
5	Own consumption of transformation sectors.....	565,242	611,123	545,558	556,967	522,703
6	Non-energy use.....	1,067,788	1,114,355	1,034,021	1,027,281	976,179
7	Total final energy consumption.....	9,234,576	9,159,677	9,294,278	8,866,434	8,918,547
8	of which: manufacturing.....	2,421,386	2,513,586	2,592,242	2,633,975	2,587,104
9	Small consumers.....	1,477,633	1,469,169	1,482,507	1,346,115	1,345,366
10	Road traffic.....	2,357,944	2,149,865	2,109,441	2,132,774	2,117,366
11	Rail-, air traffic and navy.....	393,388	436,299	434,424	420,125	441,254
12	Households.....	2,584,225	2,590,757	2,675,664	2,333,445	2,427,458
13	Domestic energy consumption (EB), domestic concept 2, 3.....	22,484,195	23,242,564	22,331,967	21,516,866	21,275,555
14	+ Ship bunkering.....	92,743	104,286	116,156	113,908	106,264
15	+ Exports.....	1,442,247	2,147,720	1,836,667	1,672,244	1,777,714
16	- Changes in inventories (withdrawal from stocks, increase in stocks).....	239,086	-36,667	138,170	-64,843	-555
17	+ Losses due to flaring and transformation.....	170,832	175,774	151,931	148,031	149,165
18	+ Statistical discrepancies.....	52,406	99,327	-115,310	-78,648	9,000
19	Total consumption (domestic concept).....	24,003,337	25,806,339	24,183,241	23,437,244	23,318,253
20	+ Bunkering of residents abroad 4.....	358,504	688,643	749,095	710,311	764,486
21	Total consumption (residents concept).....	24,361,840	26,494,982	24,932,336	24,147,556	24,082,739
22	Domestic production.....	12,099,263	13,057,974	12,322,678	12,247,415	12,110,191
23	+ Imports.....	11,904,074	12,748,365	11,875,997	11,204,766	11,208,062
24	+ Bunkering of residents abroad 4.....	358,504	688,643	749,095	710,311	764,486
25	Total production (residents concept).....	24,361,840	26,494,981	24,947,770	24,162,493	24,082,739
	Primary energy consumption					
26	Transformation of energy					
27	+ Transformation input.....	11,616,589	12,357,410	11,458,110	11,066,184	10,858,126
28	of which: power station input.....	5,687,351	6,076,734	6,085,106	5,724,783	5,617,550
29	Other transformation sectors.....	304,938	374,442	412,905	413,997	285,221
30	Other energy producers.....	5,624,300	5,906,234	4,960,099	4,927,404	4,955,355
31	- Transformation output.....	8,306,631	8,959,307	8,167,267	8,001,851	7,986,663
32	of which: power station input.....	2,384,007	2,742,864	2,795,772	2,677,610	2,769,663
33	Other transformation sectors.....	314,482	378,123	435,554	426,414	297,759
34	Other energy producers.....	5,608,142	5,838,320	4,935,941	4,897,827	4,919,241
35	Transformation sectors (net).....	3,309,958	3,398,103	3,290,843	3,064,333	2,871,463
36	Internal consumption of transformation sectors.....	565,242	611,123	545,558	556,967	522,703
37	Non-energy use (EB).....	1,067,788	1,114,355	1,034,021	1,027,281	976,179
38	Final energy consumption (EB) 3.....	9,234,576	9,159,677	9,294,278	8,866,434	8,918,547
39	Primary energy consumption (domestic concept)	14,177,564	14,283,257	14,164,700	13,515,015	13,288,892
40	+ Losses due to flaring and transformation.....	170,832	175,774	151,931	148,031	149,165
41	+ Statistical discrepancies.....	52,406	99,327	-115,310	-78,648	9,000
42	Domestic primary energy consumption (EB, domestic concept) 3.....	14,400,802	14,558,359	14,201,321	13,584,398	13,447,057
43	+ Ship bunkering.....	92,743	104,286	116,156	113,908	106,264
44	+ Bunkering of residents abroad 4.....	358,504	688,643	749,095	710,311	764,486
45	- Bunkering non-residents on the territory 5.....	338,455	294,849	298,240	287,201	298,909
46	Balance of bunkering.....	112,792	498,079	567,011	537,018	571,841
47	- Losses due to flaring and transformation.....	170,832	175,774	151,931	148,031	149,165
48	- Statistical discrepancies.....	52,406	99,327	-115,310	-78,648	9,000
49	Primary energy consumption of residents (residents concept).....	14,290,356	14,781,336	14,731,711	14,052,034	13,860,733
50	Private households (domestic consumption) (EB).....	2,584,225	2,590,757	2,675,664	2,333,445	2,427,458
51	+ memorandum item: reposting of road traffic to private households.....	1,384,072	1,414,312	1,380,147	1,396,156	1,378,027
52	- memorandum item: reposting parts of destillate fuel oil to commercial user	64,516	57,390	40,000	30,000	30,000
53	Private households (domestic consumption) (EEA-boundary).....	3,903,781	3,947,680	4,015,811	3,699,601	3,775,485
54	Homogeneous branches.....	10,386,575	10,833,656	10,715,900	10,352,433	10,085,248

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 For railways for 2008 to 2011 figures were used which deviate from the national energy balance.

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

5 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
terajoules

2013	2014	2015	Table	Cell/ (column)	No.
10,795,826	10,600,278	10,665,916	3.3.3.1	1,26,51,76 (G)	1
5,659,299	5,506,797	5,473,701	3.3.3.1	1,26,51,76 (F)	2
4,863,031	4,811,615	4,903,135			3
273,496	281,866	289,080			4
533,328	508,813	539,148			5
971,940	989,678	961,320			6
9,178,527	8,698,799	8,898,092	3.3.3.1	23,48,73,98 (G)	7
2,550,671	2,545,390	2,547,892	3.3.3.1	7,32,57,82 (G)	8
1,460,322	1,349,829	1,427,755	3.3.3.1	11,36,61,86 (G)	9
2,167,378	2,186,681	2,191,381	}		10
444,186	428,859	429,407		3.3.3.1	15,40,65,90 (G)
2,555,970	2,188,040	2,301,657	3.3.3.1	19,44,69,94 (G)	12
21,479,621	20,797,568	21,064,476	3.2.1/3.2.2	31/70 (jew. abzügl. Bunkerungssaldo)	13
96,140	94,681	101,307			14
1,985,446	2,074,216	2,509,231			15
27,991	-30,047	-3,014	3.2.2	71	16
151,334	155,302	160,722	3.2.2	72	17
75,773	-26,519	-71,912	3.2.2	74	18
23,760,323	23,125,295	23,766,838			19
751,850	718,865	734,174			20
24,512,173	23,844,160	24,501,012	3.2.2	75	21
11,993,956	11,779,281	11,967,632	3.2.2	76	22
11,766,367	11,346,014	11,799,206	}		23
751,850	718,865	734,174		3.2.2	77
24,512,173	23,844,160	24,501,012	3.2.2	75	25
					26
10,795,826	10,600,278	10,665,916			27
5,659,299	5,506,797	5,473,701			28
273,496	281,866	289,080			29
4,863,031	4,811,615	4,903,135			30
7,885,119	7,746,767	7,891,776	3.2.1	32	31
2,787,750	2,698,388	2,786,388	3.3.3.1	2,27,52,77 (F)	32
293,220	297,747	275,565			33
4,804,149	4,750,632	4,829,823			34
2,910,707	2,853,511	2,774,140			35
533,328	508,813	539,148			36
971,940	989,678	961,320			37
9,178,527	8,698,799	8,898,092			38
13,594,502	13,050,801	13,172,700			39
151,334	155,302	160,722	}		40
75,773	-26,519	-71,912		3.2.1	33
13,821,609	13,179,584	13,261,510	3.2.1/3.3.1/ 3.3.4	35,74,74	42
96,140	94,681	101,307			43
751,850	718,865	734,174			44
308,889	302,060	301,056			45
539,101	511,486	534,425	3.2.1/3.3.1/3.3.4	34,71,71	46
151,334	155,302	160,722	3.3.1/3.3.4	73	47
75,773	-26,519	-71,912	3.3.1/3.3.4	72	48
14,133,603	13,562,287	13,707,125	3.3.1/3.3.4	70	49
2,555,970	2,188,040	2,301,657			50
1,388,713	1,384,553	1,371,597			51
30,000	30,000	30,000			52
3,914,683	3,542,593	3,643,254	3.2.2/3.3.4	69	53
10,218,920	10,019,694	10,063,871	3.3.4	68	54

Table 3.1.3: Energy consumption according the residents- and the domestic concept
petajoules

No.	Art of traffic	2 005	2010	2011	2012	2013	2014	2015
1	Residents consumption total.....	3,085	3,127	3,106	3,131	3,151	3,128	3,156
2	+ Foreigners in Germany.....	294	297	287	298	308	302	301
3	- Germans abroad.....	689	749	710	764	752	719	734
4	Domestic sales (EB).....	2,690	2,675	2,682	2,665	2,708	2,710	2,722
	of which:							
5	Road traffic Germans.....	2,343	2,323	2,351	2,330	2,355	2,368	2,375
6	Diesel, Petrol, Biodiesel, Bioethanol.....	2,338	2,293	2,319	2,296	2,323	2,337	2,347
7	+ Foreigners in Germany.....	58	53	48	52	55	57	54
8	- Germans abroad.....	251	267	267	264	243	238	238
9	Balance.....	-193	-214	-219	-212	-188	-181	-184
10	Biomethane, gas, liquefied gas, electricity.....	5	31	32	34	33	31	28
11	Domestic road traffic (EB).....	2,150	2,109	2,133	2,117	2,167	2,187	2,191
12	Air traffic Germans.....	385	382	383	405	404	387	380
13	+ Foreigners in Germany.....	133	155	145	153	157	153	158
14	- Germans abroad.....	173	175	182	187	186	178	175
15	Balance.....	-40	-20	-36	-34	-28	-25	-17
16	Domestic air traffic (EB).....	345	362	347	371	375	362	362
17	Inland water transport Germans.....	8	6	7	7	6	6	6
18	+ Foreigners in Germany.....	8	7	8	7	8	8	9
19	- Germans abroad.....	2	2	2	2	2	2	2
20	Balance.....	6	5	6	6	6	6	7
21	Domestic inland water transport (EB).....	14	12	13	12	12	12	13
22	Rail traffic (EB).....	78	76	76	58	57	54	54
23	Energy consumption traffic (EB).....	2,586	2,559	2,568	2,559	2,612	2,616	2,621
24	Sea transport Germans.....	272	339	289	332	329	312	340
25	+ Foreigners in Germany.....	95	83	85	87	88	83	81
26	- Germans abroad.....	263	306	260	312	321	301	320
27	Balance.....	-167	-223	-175	-225	-233	-217	-239
28	Domestic sea transport (EB).....	104	116	114	106	96	95	101
	Share on final energy consumption (EB)							
29	Rail traffic.....	3.0	3.0	2.9	2.3	2.2	2.1	2.1
30	Road traffic.....	83.1	82.4	83.1	82.8	83.0	83.6	83.6
31	Air traffic.....	13.3	14.2	13.5	14.5	14.4	13.9	13.8
32	Inland water transport.....	0.5	0.5	0.5	0.5	0.4	0.5	0.5
33	Final energy traffic.....	100	100	100	100	100	100	100

EB = Energy balance.

Table 3.2.1: Energy consumption by energy sources (residents concept)*
terajoules

No.	Source of energy	2 000	2 005	2 010	2 011	2 012	2 013	2 014	2 015
1	Hard coal.....	1,865,578	1,763,503	1,665,195	1,662,361	1,650,057	1,777,064	1,709,001	1,693,786
2	Hard coal briquettes.....	3,643	1,476	10,802	8,604	4,145	4,208	3,203	4,836
3	Hard coal coke.....	429,263	332,247	316,051	306,910	297,703	282,074	281,019	280,081
4	Other coal products.....	39,103	10,503	12,239	29,179	17,051	0	0	0
5	Brown coal (lignite).....	1,528,115	1,608,690	1,536,198	1,593,126	1,673,216	1,657,833	1,610,089	1,596,994
6	Lignite briquettes.....	35,057	24,824	31,139	28,712	29,901	30,795	24,946	25,046
7	Other lignite products.....	67,339	74,336	85,038	96,990	95,055	90,364	85,954	86,650
8	Hard lignite.....	29,812	128	0	0	0	334	231	336
9	Crude oil.....	4,568,702	4,919,545	4,052,556	3,978,529	4,041,554	3,940,328	3,881,169	3,978,960
10	Motor gasoline.....	1,453,867	1,244,586	986,917	995,624	925,269	901,870	899,869	867,770
11	Petroleum.....	792,089	802,061	737,374	705,623	699,963	720,361	756,256	721,225
12	Air fuel.....	376,022	385,695	384,470	385,842	405,359	404,584	389,446	382,465
13	Gas-diesel oil.....	1,207,722	1,293,743	1,404,348	1,442,499	1,450,299	1,500,022	1,521,274	1,605,814
14	Light fuel oil.....	1,253,480	1,145,280	947,047	816,121	850,198	898,307	758,944	730,261
15	Heavy fuel oil.....	452,654	632,300	624,176	543,687	589,602	561,177	517,856	532,919
16	Petrolcoke.....	69,290	78,913	68,969	64,227	65,189	65,214	58,241	51,009
17	Liquid gas.....	153,534	148,892	156,938	153,022	156,937	161,596	132,879	139,427
18	Refinery gas.....	207,406	226,548	179,814	182,861	176,955	178,355	169,729	176,084
19	Other mineral oil products.....	317,691	303,188	315,883	334,064	301,758	298,935	316,899	325,722
20	Coke gas, town gas.....	80,646	64,010	62,809	64,200	60,074	61,848	61,867	67,779
21	Blast furnace gas.....	156,354	154,090	158,675	155,543	153,796	158,340	154,003	158,606
22	Natural gas, petroleum gas.....	2,895,790	3,110,764	3,245,232	2,960,304	2,940,513	3,002,875	2,717,504	2,819,755
23	Pit gas.....	7,789	8,756	9,928	12,325	12,635	13,880	10,981	9,872
24	Water power.....	91,976	70,474	75,442	63,623	78,318	82,793	70,513	68,317
25	Wind power, solar energy plant 1.....	34,892	102,658	178,114	245,603	277,380	297,785	336,289	424,558
26	Waste and other biomass.....	349,189	870,973	1,490,529	1,488,125	1,192,907	1,263,021	1,267,254	1,299,059
27	Other renewable energies.....	9,255	16,551	39,016	42,987	59,536	61,777	68,421	74,323
28	Electricity.....	1,996,751	2,097,824	2,095,830	2,065,219	2,095,784	2,095,416	2,051,083	2,062,801
29	Nuclear energy.....	1,851,148	1,778,594	1,533,330	1,177,858	1,085,011	1,061,345	1,059,583	1,001,297
30	Remote heating.....	272,830	469,491	494,919	450,117	461,230	446,221	394,550	413,147
31	Total energy sources (residents concept) 2.....	22,596,987	23,740,644	22,898,977	22,053,884	21,847,396	22,018,722	21,309,054	21,598,900
32	- Transformation output.....	8,306,631	8,959,307	8,167,267	8,001,851	7,986,663	7,885,119	7,746,767	7,891,776
33	+ Losses due to flaring and distribution/stat. disc. 3.....	223,239	275,101	36,621	69,383	158,165	227,107	128,784	88,811
34	- Balance of bunkering 4.....	112,792	498,079	567,011	537,017	571,841	539,101	511,486	534,424
35	Primary energy consumption (EB).....	14,400,802	14,558,358	14,201,321	13,584,399	13,447,057	13,821,609	13,179,585	13,261,510

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

1 Including biogas and generation plants of other energy producers.

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

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

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

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

No.	CPA ¹	Homogeneous branches	2000	2005	2010	2011	2012	2013	2014	2015
1	A	Products of agriculture, forestry and fishing.....	170,203	165,505	182,436	180,958	203,101	210,776	200,425	211,843
2	01	Products of agriculture, hunting and related services.....	162,211	157,415	174,226	172,611	197,001	203,445	193,354	204,216
3	02	Products of forestry, logging and related services.....	5,826	6,336	6,526	6,743	5,019	5,661	5,539	5,970
4	03	Fish and other fishing products; aquaculture products.....	2,166	1,754	1,684	1,605	1,082	1,671	1,532	1,657
5	B	Mining and quarrying.....	82,655	75,350	66,524	68,426	58,067	58,935	57,524	62,287
6	05	Coal and lignite.....	36,338	37,013	34,999	39,233	30,736	29,368	29,112	33,185
7	06	Crude petroleum and natural gas.....	23,672	17,084	11,290	11,503	11,173	11,780	11,647	11,660
8	07-09	Metal ores, other mining and quarrying products.....	22,645	21,254	20,234	17,689	16,158	17,787	16,764	17,442
9	C	Manufactured products.....	9,735,556	10,218,125	9,275,383	9,268,065	9,096,138	8,991,400	8,917,086	9,024,908
10	10-12	Food products, beverages, tobacco products.....	222,120	224,156	227,891	223,018	226,605	225,562	227,976	223,420
11	13-15	Textiles, wearing apparel, leather and related products.....	50,046	38,847	26,708	25,290	23,208	23,066	22,179	21,709
12	16	Wood and products of wood and cork, except furniture.....	43,877	63,623	84,417	88,629	65,914	81,766	89,180	87,722
13	17	Paper and paper products.....	180,823	305,259	249,007	239,353	229,821	242,954	235,574	233,804
14	18	Printing and recording services.....	28,078	32,847	23,608	22,194	25,910	22,636	21,221	25,212
15	19	Coke and refined petroleum products.....	6,105,218	6,396,674	5,418,545	5,371,378	5,395,061	5,296,758	5,231,468	5,355,615
16	19.1	Coke oven products.....	393,071	346,182	371,846	361,804	356,925	368,611	384,195	382,320
17	19.2	Refined petroleum products.....	5,712,147	6,050,491	5,046,699	5,009,573	5,038,136	4,928,146	4,847,274	4,973,295
18	20	Chemicals and chemical products.....	1,325,991	1,481,943	1,568,940	1,573,725	1,413,450	1,399,237	1,416,748	1,393,102
19	21	Basic pharmaceutical products and pharmaceutical preparations.....	52,956	27,239	20,693	24,660	26,820	26,011	23,889	21,662
20	22	Rubber and plastic products.....	81,506	88,464	98,252	91,863	91,476	91,913	91,208	92,469
21	23	Other non-metallic mineral products.....	311,557	254,537	279,771	292,165	279,995	277,640	279,293	278,156
22	23.1	Glass and glass products.....	100,266	88,023	87,740	89,924	83,110	84,024	85,872	85,813
23	23.2-9	Refractory products, cut, shaped and finished stone.....	211,291	166,514	192,031	202,241	196,885	193,616	193,421	192,343
24	24	Basic metals.....	928,643	865,038	836,635	867,724	862,844	839,609	832,388	863,180
25	24.1-3	Basic iron and steel and ferro-alloys, other products of steel.....	792,631	725,947	711,710	743,802	743,486	725,640	716,510	733,436
26	24.4	Basic precious and other non-ferrous metals.....	98,244	92,587	77,798	73,903	70,784	71,240	77,883	84,558
27	24.5	Casting services of metal.....	37,767	46,504	47,127	50,019	48,574	42,729	37,994	45,186
28	25	Fabricated metal products, except machinery and equipment.....	93,911	104,837	107,496	110,905	108,339	113,761	111,487	103,053
29	26	Computer, electronic and optical products.....	34,089	30,034	27,120	31,859	32,435	32,036	29,885	28,815
30	27	Electrical equipment.....	35,209	33,508	33,315	35,941	34,896	34,480	39,915	30,355
31	28	Machinery and equipment n.e.c.....	84,986	89,764	91,098	88,487	91,036	88,549	84,057	81,445
32	29	Motor vehicles, trailers and semi-trailers.....	112,231	130,477	122,414	121,483	126,549	130,086	122,084	121,823
33	30	Other transport equipment.....	16,227	20,706	15,898	14,232	14,802	15,666	14,624	14,819
34	31-32	Furniture, other manufacture goods.....	16,928	19,145	28,162	29,498	29,832	33,537	26,077	30,270
35	33	Repair and installation services of machinery and equipment.....	11,160	11,029	15,412	15,659	17,147	16,131	17,834	18,278
36	D (35)	Electricity, gas, steam and air conditioning.....	5,853,848	6,259,700	6,263,532	5,913,285	5,795,887	5,831,937	5,677,067	5,649,123
37	35.1/3	Electricity, transmission and distribution services, steam.....	5,829,165	6,232,975	6,234,949	5,885,244	5,764,481	5,804,295	5,647,180	5,618,271
38	35.2	Manufactured gas.....	24,683	26,725	28,584	28,041	31,406	27,642	29,887	30,852
39	E	Water supply; sewerage, waste management and remediation services.....	121,933	111,965	122,644	120,939	117,363	134,213	123,321	125,005
40	36	Natural water; water treatment and supply services.....	28,814	27,805	33,425	32,463	35,161	35,163	32,457	33,378
41	37-39	Sewerage services; waste collection and materials recovery services.....	93,119	84,160	89,219	88,476	84,782	99,053	90,865	91,627
42	37	Sewerage services, sewerage sludge.....	23,889	20,303	23,003	22,622	23,142	23,839	22,768	23,396
43	38-39	Waste collection, treatment and disposal services.....	69,230	63,857	66,217	65,855	61,640	75,214	68,097	68,232
44	F	Constructions and construction works.....	295,701	231,267	225,499	240,736	213,656	214,575	217,294	224,955
45	41-42	Building and building construction works.....	211,057	160,182	145,560	157,365	131,029	126,631	132,074	136,446
46	43	Specialised construction works.....	84,644	71,085	79,939	83,372	82,627	87,944	85,220	88,509
47	G	Wholesale and retail trade services; repair services of motor vehicles.....	479,550	435,383	414,526	389,682	390,055	406,782	398,208	403,871
48	45	Wholesale and retail trade and repair services of motor vehicles.....	82,181	66,318	69,713	61,927	63,960	67,464	65,492	65,950
49	46	Wholesale trade services, except of motor vehicles and motorcycles.....	143,435	134,256	119,043	116,957	117,055	121,181	120,656	123,681
50	47	Retail trade services, except of motor vehicles and motorcycles.....	253,934	234,810	225,770	210,798	209,040	218,137	212,059	214,240
51	H	Transportation and storage services.....	878,210	1,172,659	1,224,419	1,168,187	1,220,847	1,228,080	1,196,978	1,230,078
52	49.1-2	Passenger rail transport services, freight rail transport services.....	77,529	70,890	33,572	34,407	32,839	33,203	31,847	31,615
53	49.3-5	Other passenger land transport services, transport service via pipeline.....	160,103	212,794	263,629	264,948	258,858	257,218	255,049	260,018
54	50	Water transport services.....	61,087	289,396	347,584	297,632	340,234	337,176	319,906	348,719
55	51	Air transport services.....	379,082	396,813	383,562	383,972	406,527	404,745	388,428	380,734
56	52	Warehousing and support services for transportation.....	150,210	152,949	147,144	144,652	140,943	147,814	147,389	152,078
57	53	Postal and courier services.....	50,199	49,818	48,928	42,577	41,446	47,931	54,178	56,914
58	I	Accommodation and food services.....	109,956	120,252	111,053	103,485	101,600	104,541	95,973	98,519
59	J	Information and communication services.....	97,190	103,092	90,341	89,408	90,772	91,206	82,988	85,712
60	K	Financial and insurance services.....	49,724	48,487	45,367	40,014	40,562	43,913	39,256	39,623
61	L	Real estate services.....	32,151	34,947	37,220	35,624	37,637	37,713	36,516	39,421
62	M	Professional, scientific and technical services.....	153,658	167,166	188,030	176,840	177,899	186,410	181,827	188,953
63	N	Administrative and support services.....	18,587	22,369	24,062	23,464	21,077	22,503	26,972	29,392
64	O	Public administration and defence services.....	168,087	158,613	162,681	144,868	137,324	147,977	139,539	147,915
65	P	Education services.....	110,101	129,823	121,567	101,659	89,726	98,105	85,694	88,716
66	Q	Human health and social work services.....	146,706	175,614	182,343	163,148	158,463	169,831	166,092	178,359
67	R-T	Other services.....	189,388	162,647	145,539	125,496	121,733	125,135	123,881	126,963
68		All homogeneous branches.....	18,693,206	19,792,964	18,883,167	18,354,283	18,071,911	18,104,039	17,766,461	17,955,645
69		Private households (residents consumption).....	3,903,781	3,947,680	4,015,811	3,699,601	3,775,485	3,914,683	3,542,593	3,643,254
70		All homogeneous branches and private households (residents concept) 2.....	22,596,987	23,740,644	22,898,977	22,053,884	21,847,396	22,018,722	21,309,054	21,598,900
71	+	Change in inventories.....	-239,086	36,667	-138,170	64,843	555	-27,991	30,047	3,014
72	+	Losses due to flaring and distributions.....	170,832	175,774	151,931	148,031	149,165	151,334	155,302	160,722
73	+	Exports and bunkering non-residents on the territory.....	1,780,701	2,442,569	2,134,907	1,959,445	2,076,623	2,294,335	2,376,276	2,810,287
74	+	Statistical discrepancies.....	52,406	99,327	-115,310	-78,648	9,000	75,773	-26,518	-71,911
75	=	Total use (residents concept).....	24,361,841	26,494,981	24,932,335	24,147,555	24,082,739	24,512,173	23,844,161	24,501,012
76		Domestic production.....	12,099,263	13,057,974	12,322,678	12,247,415	12,110,191	11,993,956	11,779,281	11,967,632
77		Imports and bunkering of residents abroad.....	12,262,578	13,437,007	12,625,092	11,915,177	11,972,548	12,518,217	12,064,879	12,533,380

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

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

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

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

No.	CPA ¹	Homogeneous branches	Total	Hard coal and hard coal products	Lignite and lignite products	Mineral oil			
						Together	Crude oil	Motor gasoline	Gas-diesel oil
1	A	Products of agriculture, forestry and fishing.....	170,203	1,329	678	132,516	0	4,499	96,821
2	01	Products of agriculture, hunting and related services.....	162,211	1,329	678	125,589	0	1,926	92,466
3	02	Products of forestry, logging and related services.....	5,826	0	0	5,257	0	2,569	2,688
4	03	Fish and other fishing products; aquaculture products.....	2,166	0	0	1,670	0	3	1,667
5	B	Mining and quarrying.....	82,655	1,080	2,132	10,658	0	676	4,909
6	05	Coal and lignite.....	36,338	0	660	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.....	22,645	1,080	1,472	7,559	0	301	3,251
9	C	Manufactured products.....	9,735,556	931,719	179,186	6,659,055	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.....	6,105,218	353,097	121,626	5,536,988	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.....	5,712,147	30,075	121,626	5,517,347	4,568,702	147,950	2,157
18	20	Chemicals and chemical products.....	1,325,991	30,995	9,907	816,308	0	1,865	4,366
19	21	Basic pharmaceutical products and pharmaceutical preparations.....	52,956	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.....	34,089	14	7	7,587	0	1,022	2,222
30	27	Electrical equipment.....	35,209	552	81	8,093	0	1,208	3,022
31	28	Machinery and equipment n.e.c.....	84,986	536	49	22,413	0	2,428	5,810
32	29	Motor vehicles, trailers and semi-trailers.....	112,231	723	3	21,415	0	3,661	8,637
33	30	Other transport equipment.....	16,227	1	0	2,595	0	466	1,136
34	31-32	Furniture, other manufacture goods.....	16,928	64	33	5,997	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.....	5,853,848	1,363,567	1,451,322	97,745	0	659	2,618
37	35.1/3	Electricity, transmission and distribution services, steam.....	5,829,165	1,363,567	1,451,322	97,287	0	556	2,262
38	35.2	Manufactured gas.....	24,683	0	0	458	0	102	356
39	E	Water supply; sewerage, waste management and remediation services.....	121,933	646	3	73,516	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.....	93,119	646	3	73,035	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.....	69,230	646	3	63,992	0	8,883	54,366
44	F	Constructions and construction works.....	295,701	410	209	262,611	0	13,705	90,365
45	41-42	Building and building construction works.....	211,057	200	102	194,898	0	6,303	45,158
46	43	Specialised construction works.....	84,644	209	107	67,713	0	7,402	45,207
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	36,532
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.....	97,190	132	67	54,143	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.....	153,658	160	82	97,422	0	37,456	44,695
63	N	Administrative and support services.....	18,587	29	15	9,489	0	2,004	4,612
64	O	Public administration and defence services.....	168,087	2,311	2,041	76,687	0	12,302	19,854
65	P	Education services.....	110,101	523	267	22,463	0	353	952
66	Q	Human health and social work services.....	146,706	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		All homogeneous branches.....	18,693,206	2,309,335	1,640,209	8,719,276	4,568,702	328,144	949,145
69		Private households (residents consumption).....	3,903,781	28,252	20,114	2,133,181	0	1,125,723	258,577
70		All homogeneous branches and private households (residents concept) 3.....	22,596,987	2,337,587	1,660,323	10,852,457	4,568,702	1,453,867	1,207,722
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	=	Total use (residents concept).....	24,361,841	2,264,913	1,669,193	11,961,487	4,561,239	1,729,286	1,483,954
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

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

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

² Including biogas and generation plants of other energy producers.

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

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

Mineral oil				Gases	Renewable energies and other non-renewable energy sources					Electricity	Nuclear energy	Remote heating	No.
Air fuel	Light fuel oil	Heavy fuel oil	Other mineral oil products		Together	Water and wind power, solar energy plant and other ²	Biomass	Renewable energies	non-renewable waste, waste heat, etc.				
0	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	27,228	65	0	65	0	0	38,641	0	2,850	5
0	768	30	261	304	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	5,407	57	0	57	0	0	6,921	0	150	8
158	190,886	391,043	1,287,817	1,092,032	27,227	0	27,221	6	0	797,158	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	615,423	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	595,813	14,420	15	0	15	0	0	24,664	0	4,000	17
0	29,073	166,748	614,256	285,828	12,694	0	12,694	0	0	158,410	0	11,850	18
0	984	1,917	17,452	21,092	5	0	5	0	0	8,431	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	4	7,062	43	0	42	1	0	16,984	0	2,391	29
0	3,711	122	30	3,000	50	0	48	1	0	20,990	0	2,442	30
0	11,716	639	1,820	24,193	62	0	62	0	0	33,825	0	3,909	31
0	3,755	48	5,314	31,689	94	0	94	0	0	51,694	0	6,612	32
0	898	0	95	7,124	12	0	12	0	0	5,257	0	1,238	33
0	3,756	163	49	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	647,995	272,161	126,868	88,424	407	56,462	168,510	1,851,148	1,400	36
0	23,560	34,209	36,700	647,963	257,686	126,868	73,949	407	56,462	158,792	1,851,148	1,400	37
0	0	0	0	32	14,475	0	14,475	0	0	9,718	0	0	38
0	408	335	1	503	1,079	0	1,079	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	1	503	1,077	0	1,077	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	1	503	965	0	965	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	1	11,949	234	0	225	9	0	28,568	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	35,115	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	14,280	0	18,314	65
0	23,880	0	0	65,617	34	0	20	14	0	30,716	0	18,355	66
0	23,059	0	1	38,995	789	0	789	0	0	28,190	0	17,783	67
376,022	541,341	452,654	1,503,268	2,192,847	312,010	126,868	125,638	3,042	56,462	1,526,951	1,851,148	141,430	68
0	712,139	0	36,742	947,732	173,302	0	167,089	6,213	0	469,800	0	131,400	69
376,022	1,253,480	452,654	1,540,010	3,140,579	485,312	126,868	292,727	9,255	56,462	1,996,751	1,851,148	272,830	70
0	0	0	0	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
501,110	1,280,923	707,151	1,697,824	3,583,299	485,312	126,868	292,727	9,255	56,462	2,233,005	1,851,148	313,484	75
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)*
terajoules

No.	CPA ¹	Homogeneous branches	Total	Hard coal and hard coal products	Lignite and lignite products	Mineral oil			
						Together	Crude oil	Motor gasoline	Gas-diesel oil
1	A	Products of agriculture, forestry and fishing.....	165,505	975	25	124,798	0	3,454	97,497
2	01	Products of agriculture, hunting and related services.....	157,415	975	25	117,660	0	881	92,933
3	02	Products of forestry, logging and related services.....	6,336	0	0	5,844	0	2,568	3,277
4	03	Fish and other fishing products; aquaculture products.....	1,754	0	0	1,293	0	6	1,288
5	B	Mining and quarrying.....	75,350	2,746	2,721	7,586	0	252	3,076
6	05	Coal and lignite.....	37,013	1,401	750	1,209	0	71	723
7	06	Crude petroleum and natural gas.....	17,084	0	0	567	0	59	471
8	07-09	Metal ores, other mining and quarrying products.....	21,254	1,345	1,970	5,810	0	123	1,883
9	C	Manufactured products.....	10,218,125	776,348	185,638	6,961,529	4,919,545	147,747	51,334
10	10-12	Food products, beverages, tobacco products.....	224,156	3,383	5,699	37,672	0	1,375	5,078
11	13-15	Textiles, wearing apparel, leather and related products.....	38,847	772	0	6,688	0	236	869
12	16	Wood and products of wood and cork, except furniture.....	63,623	15	269	3,578	0	205	777
13	17	Paper and paper products.....	305,259	13,671	3,406	6,916	0	282	1,072
14	18	Printing and recording services.....	32,847	13	0	2,862	0	219	807
15	19	Coke and refined petroleum products.....	6,396,674	311,109	122,603	5,894,211	4,919,545	135,190	2,482
16	19.1	Coke oven products.....	346,182	298,268	0	22,404	0	3	13
17	19.2	Refined petroleum products.....	6,050,491	12,842	122,603	5,871,807	4,919,545	135,187	2,469
18	20	Chemicals and chemical products.....	1,481,943	4,088	10,542	836,535	0	993	3,879
19	21	Basic pharmaceutical products and pharmaceutical preparations.....	27,239	0	0	10,808	0	241	896
20	22	Rubber and plastic products.....	88,464	32	88	9,267	0	539	1,993
21	23	Other non-metallic mineral products.....	254,537	13,620	41,070	33,803	0	329	1,416
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.....	166,514	13,620	40,585	24,516	0	253	1,112
24	24	Basic metals.....	865,038	427,447	1,958	39,811	0	740	2,772
25	24.1-3	Basic iron and steel and ferro-alloys, other products of steel.....	725,947	416,025	1,264	32,493	0	415	1,561
26	24.4	Basic precious and other non-ferrous metals.....	92,587	3,183	596	5,440	0	224	840
27	24.5	Casting services of metal.....	46,504	8,239	98	1,879	0	101	371
28	25	Fabricated metal products, except machinery and equipment.....	104,837	340	1	16,890	0	941	3,994
29	26	Computer, electronic and optical products.....	30,034	27	1	5,330	0	525	2,072
30	27	Electrical equipment.....	33,508	499	0	7,549	0	897	3,612
31	28	Machinery and equipment n.e.c.....	89,764	224	1	18,946	0	1,647	6,817
32	29	Motor vehicles, trailers and semi-trailers.....	130,477	1,091	0	18,663	0	2,394	8,985
33	30	Other transport equipment.....	20,706	0	0	2,151	0	300	1,165
34	31-32	Furniture, other manufacture goods.....	19,145	16	0	5,330	0	292	1,158
35	33	Repair and installation services of machinery and equipment.....	11,029	0	0	4,520	0	404	1,491
36	D (35)	Electricity, gas, steam and air conditioning.....	6,259,700	1,306,392	1,501,031	116,595	0	649	3,326
37	35.1/3	Electricity, transmission and distribution services, steam.....	6,232,975	1,306,392	1,501,031	115,986	0	545	2,822
38	35.2	Manufactured gas.....	26,725	0	0	609	0	105	504
39	E	Water supply; sewerage, waste management and remediation services.....	111,965	0	0	58,808	0	3,465	53,303
40	36	Natural water; water treatment and supply services.....	27,805	0	0	523	0	89	434
41	37-39	Sewerage services; waste collection and materials recovery services.....	84,160	0	0	58,285	0	3,376	52,869
42	37	Sewerage services, sewerage sludge.....	20,303	0	0	5,735	0	946	4,787
43	38-39	Waste collection, treatment and disposal services.....	63,857	0	0	52,549	0	2,430	48,082
44	F	Constructions and construction works.....	231,267	262	7	202,241	0	8,758	71,654
45	41-42	Building and building construction works.....	160,182	118	3	146,993	0	4,602	35,282
46	43	Specialised construction works.....	71,085	144	4	55,249	0	4,155	36,372
47	G	Wholesale and retail trade services; repair services of motor vehicles.....	435,383	2,078	52	218,491	0	17,872	107,839
48	45	Wholesale and retail trade and repair services of motor vehicles.....	66,318	146	4	43,546	0	971	8,875
49	46	Wholesale trade services, except of motor vehicles and motorcycles.....	134,256	137	3	74,231	0	4,526	56,243
50	47	Retail trade services, except of motor vehicles and motorcycles.....	234,810	1,795	45	100,714	0	12,375	42,721
51	H	Transportation and storage services.....	1,172,659	0	0	1,031,515	0	5,782	360,568
52	49.1-2	Passenger rail transport services, freight rail transport services.....	70,890	0	0	24,085	0	31	21,626
53	49.3-5	Other passenger land transport services, transport service via pipeline.....	212,794	0	0	160,783	0	2,307	152,217
54	50	Water transport services.....	289,396	0	0	287,890	0	69	24,861
55	51	Air transport services.....	396,813	0	0	395,782	0	797	10,970
56	52	Warehousing and support services for transportation.....	152,949	0	0	119,700	0	1,116	110,881
57	53	Postal and courier services.....	49,818	0	0	43,275	0	1,463	40,014
58	I	Accommodation and food services.....	120,252	457	11	36,224	0	1,428	1,838
59	J	Information and communication services.....	103,092	0	0	48,026	0	4,362	30,098
60	K	Financial and insurance services.....	48,487	0	0	16,840	0	1,229	1,941
61	L	Real estate services.....	34,947	0	0	12,568	0	2,574	7,283
62	M	Professional, scientific and technical services.....	167,166	0	0	92,393	0	22,283	50,792
63	N	Administrative and support services.....	22,369	0	0	11,869	0	1,311	6,333
64	O	Public administration and defence services.....	158,613	1,454	1,455	72,212	0	10,151	22,089
65	P	Education services.....	129,823	217	5	23,928	0	267	1,247
66	Q	Human health and social work services.....	175,614	1,249	31	33,675	0	2,464	3,728
67	R-T	Other services.....	162,647	143	4	68,023	0	4,738	39,919
68		All homogeneous branches.....	19,792,964	2,092,322	1,690,980	9,137,321	4,919,545	238,787	913,866
69		Private households (residents consumption).....	3,947,680	15,407	16,998	2,043,430	0	1,005,800	379,877
70		All homogeneous branches and private households (residents concept) 3.....	23,740,644	2,107,729	1,707,978	11,180,751	4,919,545	1,244,586	1,293,743
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.....	2,442,569	58,932	16,226	1,432,517	30,190	259,306	451,961
74	+	Statistical discrepancies.....	99,327	-30,978	205	0	0	0	0
75	=	Total use (residents concept).....	26,494,981	2,159,957	1,725,019	12,688,356	4,977,199	1,505,920	1,733,214
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.....	13,437,007	1,135,123	1,934	7,018,023	4,823,748	133,557	267,304

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

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

² Including biogas and generation plants of other energy producers.

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

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

Mineral oil				Gases	Renewable energies and other non-renewable energy sources					Electricity	Nuclear energy	Remote heating	No.
Air fuel	Light fuel oil	Heavy fuel oil	Other mineral oil products		Together	Water and wind power, solar energy plant and other ²	Biomass	Renewable energies	non-renewable waste, waste heat, etc.				
0	21,443	0	2,403	14,994	3,741	0	1,592	2,149	0	20,172	0	800	1
0	21,443	0	2,403	14,993	3,709	0	1,559	2,149	0	19,252	0	800	2
0	0	0	0	0	31	0	31	0	0	460	0	0	3
0	0	0	0	0	1	0	1	0	0	460	0	0	4
0	2,166	565	1,527	19,668	428	0	199	0	229	40,345	0	1,857	5
0	287	13	115	548	252	0	23	0	229	31,032	0	1,820	6
0	38	0	0	14,238	29	0	29	0	0	2,246	0	3	7
0	1,841	552	1,412	4,881	146	0	146	0	0	7,066	0	34	8
454	186,320	333,587	1,322,543	1,050,591	281,555	0	174,220	5	107,330	845,056	0	117,406	9
0	20,679	9,163	1,378	101,168	3,378	0	1,918	0	1,460	66,551	0	6,304	10
0	4,918	480	185	17,293	116	0	115	1	0	12,922	0	1,056	11
0	1,417	1,001	178	12,316	29,087	0	28,914	1	172	16,827	0	1,531	12
0	2,628	2,478	457	83,693	109,061	0	29,323	0	79,738	78,636	0	9,876	13
0	1,790	0	47	10,319	62	0	62	1	0	17,330	0	2,260	14
454	59,055	114,370	663,115	39,886	126	0	126	0	0	26,006	0	2,732	15
0	0	0	22,388	24,369	1	0	1	0	0	1,141	0	0	16
454	59,055	114,370	640,727	15,517	125	0	125	0	0	24,865	0	2,732	17
0	44,433	168,299	618,930	317,210	96,946	0	82,187	0	14,759	173,388	0	43,235	18
0	1,113	0	8,559	8,990	499	0	499	0	0	3,117	0	3,824	19
0	5,420	314	1,002	21,618	2,733	0	1,915	0	818	50,600	0	4,126	20
0	8,909	11,370	11,781	86,615	33,238	0	23,104	0	10,134	45,572	0	619	21
0	630	5,949	2,329	59,695	711	0	709	0	2	17,688	0	157	22
0	8,279	5,421	9,451	26,920	32,527	0	22,395	0	10,132	27,884	0	462	23
0	3,359	25,653	7,288	230,516	697	0	497	0	199	163,554	0	1,054	24
0	918	24,540	5,059	194,209	267	0	244	0	22	81,352	0	337	25
0	1,414	1,032	1,930	23,215	407	0	230	0	177	59,335	0	410	26
0	1,027	81	299	13,092	23	0	23	0	0	22,868	0	307	27
0	9,836	74	2,046	34,639	418	0	381	0	37	42,942	0	9,607	28
0	2,732	0	1	5,945	168	0	167	1	0	15,999	0	2,564	29
0	2,998	40	2	2,491	232	0	231	1	0	20,290	0	2,447	30
0	9,787	189	507	29,900	549	0	546	0	2	35,444	0	4,701	31
0	2,848	116	4,320	35,776	1,075	0	1,065	0	10	58,884	0	14,988	32
0	685	0	1	6,966	74	0	74	0	0	6,237	0	5,278	33
0	3,651	40	188	5,172	3,004	0	3,003	0	0	4,419	0	1,203	34
0	63	0	2,561	80	92	0	92	0	0	6,338	0	0	35
0	20,232	37,003	55,384	858,858	502,715	173,131	224,556	1,342	103,686	180,895	1,778,594	14,619	36
0	20,232	37,003	55,384	851,588	499,663	173,131	221,504	1,342	103,686	174,704	1,778,594	5,017	37
0	0	0	0	7,270	3,053	0	3,053	0	0	6,191	0	9,602	38
0	1,475	284	281	1,116	6,173	0	6,173	0	0	45,674	0	194	39
0	0	0	0	10	18	0	18	0	0	27,253	0	0	40
0	1,475	284	280	1,106	6,155	0	6,155	0	0	18,421	0	194	41
0	0	0	2	13	314	0	314	0	0	14,241	0	0	42
0	1,475	284	278	1,093	5,840	0	5,840	0	0	4,180	0	194	43
0	21,860	0	99,969	13,812	2,084	0	2,084	0	0	11,211	0	1,650	44
0	9,967	0	97,141	6,237	1,042	0	1,042	0	0	5,051	0	740	45
0	11,893	0	2,828	7,575	1,043	0	1,043	0	0	6,161	0	910	46
0	65,229	0	27,551	84,047	7,305	0	7,305	0	0	106,131	0	17,279	47
0	9,291	0	24,408	9,933	617	0	617	0	0	9,841	0	2,230	48
0	13,453	0	10	21,324	4,657	0	4,657	0	0	29,573	0	4,330	49
0	42,484	0	3,134	52,789	2,031	0	2,031	0	0	66,717	0	10,720	50
383,989	8,034	260,828	12,313	32,256	24,297	0	24,297	0	0	77,332	0	7,260	51
0	394	0	2,034	360	1,260	0	1,260	0	0	45,045	0	140	52
0	152	0	6,106	25,838	10,499	0	10,499	0	0	15,675	0	0	53
0	0	260,828	2,133	0	1,505	0	1,505	0	0	0	0	0	54
383,989	26	0	0	20	1,011	0	1,011	0	0	0	0	0	55
0	5,667	0	2,036	4,373	7,424	0	7,424	0	0	14,972	0	6,480	56
0	1,795	0	3	1,664	2,599	0	2,599	0	0	1,640	0	640	57
0	29,001	0	3,958	28,416	100	0	100	0	0	39,344	0	15,699	58
0	13,557	0	9	15,637	2,126	0	2,126	0	0	32,150	0	5,154	59
0	13,667	0	3	13,874	132	0	132	0	0	12,371	0	5,270	60
0	2,705	0	6	3,098	420	0	420	0	0	17,702	0	1,160	61
0	17,856	3	1,460	17,615	2,490	0	2,490	0	0	46,308	0	8,360	62
0	4,223	0	3	4,994	405	0	405	0	0	3,540	0	1,560	63
1,252	35,310	13	3,397	39,402	1,107	0	620	486	0	30,223	0	12,760	64
0	22,403	11	1	53,584	417	0	101	316	0	12,133	0	39,539	65
0	27,473	5	5	59,031	755	0	220	535	0	36,944	0	43,929	66
0	23,353	2	10	38,806	2,729	0	2,199	530	0	31,613	0	21,329	67
385,695	516,306	632,300	1,530,823	2,349,798	838,980	173,131	449,239	5,364	211,246	1,589,144	1,778,594	315,824	68
0	628,974	0	28,779	987,822	221,675	0	210,488	11,187	0	508,680	0	153,667	69
385,695	1,145,280	632,300	1,559,602	3,337,621	1,060,655	173,131	659,728	16,551	211,246	2,097,824	1,778,594	469,491	70
0	0	0	0	29,721	1,267	0	1,267	0	0	105,732	0	39,055	71
6,204	42,842	10,925	-1,886	-63,303	0	0	0	0	0	0	0	0	72
153,491	47,421	309,031	181,117	711,716	0	0	0	0	0	222,926	0	251	73
0	0	0	0	130,100	1	0	0	0	1	0	0	0	74
545,390	1,235,543	952,256	1,738,833	4,145,854	1,061,922	173,131	660,994	16,551	211,246	2,426,483	1,778,594	508,797	75
181,983	775,882	553,330	1,167,414	834,937	1,061,922	173,131	660,994	16,550	211,246	2,234,066	0	508,797	76
363,407	459,661	398,926	571,419	3,310,917	0	0	0	0	0	192,416	1,778,594	0	77

Table 3.2.3.3: Energy consumption of homogeneous branches by type of energy source 2010 (residents concept)*
terajoules

No.	CPA ¹	Homogeneous branches	Total	Hard coal and hard coal products	Lignite and lignite products	Mineral oil			
						Together	Crude oil	Motor gasoline	Gas-diesel oil
1	A	Products of agriculture, forestry and fishing.....	182,436	300	0	136,612	0	2,337	110,692
2	01	Products of agriculture, hunting and related services.....	174,226	300	0	129,552	0	708	105,262
3	02	Products of forestry, logging and related services.....	6,526	0	0	5,935	0	1,622	4,311
4	03	Fish and other fishing products; aquaculture products.....	1,684	0	0	1,126	0	7	1,119
5	B	Mining and quarrying.....	66,524	1,816	2,635	5,113	0	113	2,661
6	05	Coal and lignite.....	34,999	1,703	425	1,312	0	33	862
7	06	Crude petroleum and natural gas.....	11,290	0	0	573	0	25	543
8	07-09	Metal ores, other mining and quarrying products.....	20,234	113	2,210	3,228	0	55	1,257
9	C	Manufactured products.....	9,275,383	803,797	216,719	5,860,455	4,052,556	77,621	56,601
10	10-12	Food products, beverages, tobacco products.....	227,891	3,818	4,751	26,886	0	912	5,715
11	13-15	Textiles, wearing apparel, leather and related products.....	26,708	501	0	1,670	0	117	735
12	16	Wood and products of wood and cork, except furniture.....	84,417	0	132	4,689	0	122	760
13	17	Paper and paper products.....	249,007	12,175	4,144	5,281	0	208	1,319
14	18	Printing and recording services.....	23,608	0	0	1,990	0	126	792
15	19	Coke and refined petroleum products.....	5,418,545	318,463	139,203	4,878,412	4,052,556	69,209	2,117
16	19.1	Coke oven products.....	371,846	310,635	0	35,383	0	2	11
17	19.2	Refined petroleum products.....	5,046,699	7,828	139,203	4,843,028	4,052,556	69,207	2,106
18	20	Chemicals and chemical products.....	1,568,940	20,188	25,257	786,626	0	639	4,004
19	21	Basic pharmaceutical products and pharmaceutical preparations.....	20,693	0	0	3,726	0	163	1,016
20	22	Rubber and plastic products.....	98,252	0	374	12,585	0	349	2,175
21	23	Other non-metallic mineral products.....	279,771	16,446	42,374	31,884	0	210	1,341
22	23.1	Glass and glass products.....	87,740	0	0	8,775	0	51	319
23	23.2-9	Refractory products, cut, shaped and finished stone.....	192,031	16,446	42,374	23,109	0	159	1,022
24	24	Basic metals.....	836,635	430,960	385	24,923	0	505	3,179
25	24.1-3	Basic iron and steel and ferro-alloys, other products of steel.....	711,710	419,625	90	14,746	0	273	1,709
26	24.4	Basic precious and other non-ferrous metals.....	77,798	816	295	6,259	0	162	1,034
27	24.5	Casting services of metal.....	47,127	10,519	0	3,917	0	70	436
28	25	Fabricated metal products, except machinery and equipment.....	107,496	298	0	16,433	0	600	3,754
29	26	Computer, electronic and optical products.....	27,120	0	0	5,178	0	490	3,125
30	27	Electrical equipment.....	33,315	174	0	6,543	0	472	2,946
31	28	Machinery and equipment n.e.c.....	91,098	86	99	19,455	0	1,024	6,727
32	29	Motor vehicles, trailers and semi-trailers.....	122,414	688	0	19,943	0	1,708	12,026
33	30	Other transport equipment.....	15,898	0	0	4,211	0	337	2,170
34	31-32	Furniture, other manufacture goods.....	28,162	0	0	5,679	0	202	1,286
35	33	Repair and installation services of machinery and equipment.....	15,412	0	0	4,341	0	227	1,412
36	D (35)	Electricity, gas, steam and air conditioning.....	6,263,532	1,157,284	1,408,094	88,638	0	770	5,639
37	35.1/3	Electricity, transmission and distribution services, steam.....	6,234,949	1,157,284	1,408,094	87,803	0	669	4,908
38	35.2	Manufactured gas.....	28,584	0	0	835	0	102	731
39	E	Water supply; sewerage, waste management and remediation services.....	122,644	0	0	60,592	0	2,711	55,213
40	36	Natural water; water treatment and supply services.....	33,425	0	0	1,024	0	55	968
41	37-39	Sewerage services; waste collection and materials recovery services.....	89,219	0	0	59,568	0	2,656	54,245
42	37	Sewerage services, sewerage sludge.....	23,003	0	0	5,839	0	671	5,153
43	38-39	Waste collection, treatment and disposal services.....	66,217	0	0	53,729	0	1,985	49,092
44	F	Constructions and construction works.....	225,499	0	0	195,262	0	5,098	73,823
45	41-42	Building and building construction works.....	145,560	0	0	135,117	0	2,266	29,402
46	43	Specialised construction works.....	79,939	0	0	60,145	0	2,832	44,421
47	G	Wholesale and retail trade services; repair services of motor vehicles.....	414,526	2,407	0	202,827	0	14,418	108,098
48	45	Wholesale and retail trade and repair services of motor vehicles.....	69,713	326	0	43,080	0	685	11,261
49	46	Wholesale trade services, except of motor vehicles and motorcycles.....	119,043	528	0	72,712	0	4,396	60,650
50	47	Retail trade services, except of motor vehicles and motorcycles.....	225,770	1,553	0	87,035	0	9,337	36,187
51	H	Transportation and storage services.....	1,224,419	0	0	1,081,346	0	3,852	364,490
52	49.1-2	Passenger rail transport services, freight rail transport services.....	33,572	0	0	8,735	0	10	6,698
53	49.3-5	Other passenger land transport services, transport service via pipeline.....	263,629	0	0	197,352	0	1,627	190,003
54	50	Water transport services.....	347,584	0	0	346,829	0	11	30,866
55	51	Air transport services.....	383,562	0	0	383,445	0	579	820
56	52	Warehousing and support services for transportation.....	147,144	0	0	104,435	0	768	97,501
57	53	Postal and courier services.....	48,928	0	0	40,550	0	857	38,602
58	I	Accommodation and food services.....	111,053	540	0	32,721	0	1,018	2,070
59	J	Information and communication services.....	90,341	0	0	30,128	0	2,172	20,713
60	K	Financial and insurance services.....	45,367	0	0	10,984	0	756	2,823
61	L	Real estate services.....	37,220	0	0	11,381	0	1,747	8,078
62	M	Professional, scientific and technical services.....	188,030	0	0	93,285	0	14,756	65,017
63	N	Administrative and support services.....	24,062	0	0	8,204	0	637	3,171
64	O	Public administration and defence services.....	162,681	4,628	2,169	57,892	0	7,145	22,458
65	P	Education services.....	121,567	310	0	21,282	0	222	1,379
66	Q	Human health and social work services.....	182,343	1,989	0	35,417	0	2,659	6,188
67	R-T	Other services.....	145,539	217	0	61,505	0	3,610	41,742
68		All homogeneous branches.....	18,883,166	1,973,287	1,629,617	7,993,645	4,052,556	141,642	950,858
69		Private households (residents consumption).....	4,015,811	31,000	22,758	1,864,847	0	845,274	453,490
70		All homogeneous branches and private households (residents concept) 3.....	22,898,977	2,004,287	1,652,375	9,858,492	4,052,556	986,917	1,404,348
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.....	2,134,907	63,693	26,642	1,081,790	29,996	221,776	284,454
74	+	Statistical discrepancies.....	-115,310	-39,581	-6,482	0	0	0	0
75	=	Total use (residents concept).....	24,932,335	2,021,639	1,671,015	10,942,437	4,069,916	1,209,152	1,708,659
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.....	12,625,092	1,384,502	2,110	6,227,621	3,963,011	211,498	486,265

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

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

² Including biogas and generation plants of other energy producers.

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

Table 3.2.3.3: Energy consumption of homogeneous branches by type of energy source 2010 (residents concept)*
terajoules

Mineral oil				Gases	Renewable energies and other non-renewable energy sources					Electricity	Nuclear energy	Remote heating	No.
Air fuel	Light fuel oil	Heavy fuel oil	Other mineral oil products		Together	Water and wind power, solar energy plant and other ²	Biomass	Renewable energies	non-renewable waste, waste heat, etc.				
0	21,474	0	2,110	9,107	17,350	0	14,165	3,185	0	18,467	0	600	1
0	21,474	0	2,108	9,106	17,309	0	14,124	3,185	0	17,359	0	600	2
0	0	0	1	1	37	0	37	0	0	554	0	0	3
0	0	0	0	0	4	0	4	0	0	554	0	0	4
0	1,223	121	994	14,806	6,554	0	870	0	5,684	34,639	0	961	5
0	314	21	82	210	5,751	0	67	0	5,684	24,718	0	880	6
0	5	0	1	8,457	50	0	50	0	0	2,185	0	25	7
0	904	100	911	6,139	753	0	753	0	0	7,736	0	56	8
1	168,140	273,340	1,232,195	1,073,169	354,209	0	275,290	4	78,915	817,283	0	149,752	9
0	15,984	1,880	2,395	108,006	11,072	0	8,016	0	3,056	67,758	0	5,601	10
0	814	0	3	12,541	56	0	55	1	0	9,407	0	2,533	11
0	2,344	1,386	77	8,641	48,480	0	48,260	1	220	17,160	0	5,315	12
0	2,632	789	333	86,759	47,712	0	44,404	0	3,308	75,978	0	16,958	13
0	1,068	0	3	9,098	60	0	60	1	0	10,958	0	1,501	14
1	46,308	85,591	622,629	51,973	5,153	0	537	0	4,616	22,532	0	2,810	15
0	0	0	35,370	24,697	1	0	1	0	0	1,130	0	0	16
1	46,308	85,591	587,259	27,276	5,152	0	536	0	4,616	21,402	0	2,810	17
0	42,983	169,808	569,191	308,215	189,036	0	155,249	0	33,787	168,598	0	71,019	18
0	600	0	1,947	9,840	1,282	0	1,282	0	0	1,027	0	4,817	19
0	7,597	342	2,122	23,407	843	0	427	0	416	55,652	0	5,391	20
0	12,344	7,898	10,090	102,018	41,450	0	8,289	0	33,161	44,991	0	608	21
0	844	5,891	1,670	60,540	42	0	42	0	0	18,118	0	264	22
0	11,500	2,007	8,420	41,478	41,408	0	8,247	0	33,161	26,873	0	344	23
0	2,404	5,591	13,243	231,593	693	0	380	0	313	145,883	0	2,200	24
0	818	4,614	7,333	192,642	253	0	253	0	0	82,950	0	1,404	25
0	865	977	3,220	25,076	406	0	93	0	313	44,305	0	641	26
0	721	0	2,691	13,875	33	0	33	0	0	18,628	0	155	27
0	9,064	0	3,015	36,127	1,612	0	1,589	0	23	49,987	0	3,039	28
0	1,400	0	164	4,691	321	0	321	1	0	13,947	0	2,983	29
0	3,042	0	84	5,358	245	0	244	1	0	18,865	0	2,131	30
0	11,130	55	519	26,596	847	0	842	0	5	38,552	0	5,463	31
0	2,213	0	3,995	32,260	1,289	0	1,279	0	10	53,468	0	14,766	32
0	1,696	0	8	6,154	174	0	174	0	0	4,168	0	1,191	33
0	3,715	0	477	6,763	3,758	0	3,758	0	0	10,792	0	1,169	34
0	799	0	1,902	3,129	126	0	126	0	0	7,560	0	256	35
0	16,679	36,443	29,106	928,934	957,493	253,555	542,598	2,379	158,961	170,460	1,533,330	19,299	36
0	16,679	36,443	29,104	928,373	956,786	253,555	541,891	2,379	158,961	163,278	1,533,330	0	37
0	0	0	2	561	707	0	707	0	0	7,182	0	19,299	38
0	561	165	1,942	556	10,178	0	10,178	0	0	51,168	0	150	39
0	0	0	1	11	73	0	73	0	0	32,317	0	0	40
0	561	165	1,941	546	10,105	0	10,105	0	0	18,850	0	150	41
0	0	0	16	16	342	0	342	0	0	16,805	0	0	42
0	561	165	1,925	529	9,763	0	9,763	0	0	2,046	0	150	43
0	15,585	0	100,757	15,232	2,469	0	2,469	0	0	12,106	0	430	44
0	5,187	0	98,262	4,938	779	0	779	0	0	4,596	0	130	45
0	10,397	0	2,495	10,294	1,690	0	1,690	0	0	7,510	0	300	46
0	54,814	0	25,497	86,677	8,867	0	8,867	0	0	104,079	0	9,669	47
0	8,675	0	22,459	12,226	1,001	0	1,001	0	0	11,570	0	1,510	48
0	7,560	0	106	12,282	5,867	0	5,867	0	0	26,224	0	1,430	49
0	38,580	0	2,932	62,169	2,000	0	2,000	0	0	66,284	0	6,730	50
381,880	5,741	314,082	11,300	36,436	31,722	0	31,722	0	0	68,196	0	6,720	51
0	156	0	1,870	350	1,087	0	1,087	0	0	23,300	0	100	52
0	71	0	5,650	24,911	17,815	0	17,815	0	0	23,552	0	0	53
0	0	314,082	1,870	0	755	0	755	0	0	0	0	0	54
381,880	166	0	0	20	97	0	97	0	0	0	0	0	55
0	4,278	0	1,889	8,977	8,029	0	8,029	0	0	19,723	0	5,980	56
0	1,070	0	21	2,178	3,939	0	3,939	0	0	1,621	0	640	57
0	26,163	0	3,469	25,759	145	0	145	0	0	45,059	0	6,830	58
0	7,191	0	52	15,911	1,895	0	1,895	0	0	37,697	0	4,710	59
0	7,387	0	18	17,907	214	0	214	0	0	11,273	0	4,990	60
0	1,514	0	42	3,627	462	0	462	0	0	20,730	0	1,020	61
0	11,923	2	1,587	24,083	3,799	0	3,799	0	0	59,564	0	7,300	62
0	4,380	0	15	7,356	234	0	234	0	0	5,708	0	2,560	63
2,589	22,682	10	3,007	44,421	4,744	0	4,024	721	0	35,727	0	13,099	64
0	19,669	7	5	48,101	1,690	0	1,221	468	0	16,207	0	33,978	65
0	26,501	4	64	71,474	3,038	0	2,246	793	0	44,427	0	25,998	66
0	16,064	2	87	28,364	5,092	0	4,305	786	0	32,922	0	17,439	67
384,470	427,692	624,176	1,412,250	2,451,919	1,410,155	253,555	904,703	8,337	243,560	1,585,710	1,533,330	305,503	68
0	519,355	0	46,728	1,024,725	372,945	0	342,266	30,679	0	510,120	0	189,416	69
384,470	947,047	624,176	1,458,978	3,476,644	1,783,100	253,555	1,246,969	39,016	243,560	2,095,830	1,533,330	494,919	70
0	0	0	0	25,437	916	0	916	0	0	86,159	0	39,419	71
8,833	-29,090	688	14,044	-132,045	0	0	0	0	0	0	0	0	72
184,864	74,275	138,867	147,558	719,979	26,969	0	26,969	0	0	215,568	0	266	73
0	0	0	0	-69,247	0	0	0	0	0	0	0	0	74
578,167	992,232	763,731	1,620,580	4,020,768	1,810,986	253,555	1,274,855	39,016	243,560	2,397,557	1,533,330	534,604	75
205,957	642,339	366,569	1,172,998	713,960	1,792,088	253,555	1,255,957	39,016	243,560	2,261,168	0	534,604	76
372,210	349,893	397,162	447,582	3,306,808	18,898	0	18,898	0	0	151,823	1,533,330	0	77

Table 3.2.3.4: Energy consumption of homogeneous branches by type of energy source 2015 (residents concept)*
terajoules

No.	CPA ¹	Homogeneous branches	Total	Hard coal and hard coal products	Lignite and lignite products	Mineral oil			
						Together	Crude oil	Motor gasoline	Gas-diesel oil
1	A	Products of agriculture, forestry and fishing.....	211,843	360	0	145,772	0	1,441	127,633
2	01	Products of agriculture, hunting and related services.....	204,216	360	0	139,032	0	677	121,659
3	02	Products of forestry, logging and related services.....	5,970	0	0	5,511	0	759	4,750
4	03	Fish and other fishing products; aquaculture products.....	1,657	0	0	1,229	0	4	1,224
5	B	Mining and quarrying.....	62,287	738	2,982	4,289	0	72	2,558
6	05	Coal and lignite.....	33,185	672	452	587	0	14	481
7	06	Crude petroleum and natural gas.....	11,660	0	0	686	0	19	660
8	07-09	Metal ores, other mining and quarrying products.....	17,442	66	2,530	3,016	0	40	1,416
9	C	Manufactured products.....	9,024,908	864,047	229,333	5,630,953	3,978,960	61,798	64,088
10	10-12	Food products, beverages, tobacco products.....	223,420	3,430	5,319	19,147	0	922	6,772
11	13-15	Textiles, wearing apparel, leather and related products.....	21,709	226	0	1,674	0	106	769
12	16	Wood and products of wood and cork, except furniture.....	87,722	0	28	2,140	0	120	875
13	17	Paper and paper products.....	233,804	7,516	6,507	3,515	0	188	1,379
14	18	Printing and recording services.....	25,212	0	0	1,494	0	105	765
15	19	Coke and refined petroleum products.....	5,355,615	331,760	149,240	4,767,697	3,978,960	53,474	2,812
16	19.1	Coke oven products.....	382,320	331,760	5,580	18,701	0	2	14
17	19.2	Refined petroleum products.....	4,973,295	0	143,660	4,748,997	3,978,960	53,472	2,797
18	20	Chemicals and chemical products.....	1,393,102	31,637	20,630	725,476	0	626	4,569
19	21	Basic pharmaceutical products and pharmaceutical preparations.....	21,662	0	0	4,351	0	169	1,241
20	22	Rubber and plastic products.....	92,469	0	110	6,203	0	346	2,533
21	23	Other non-metallic mineral products.....	278,156	15,482	41,234	19,425	0	210	1,578
22	23.1	Glass and glass products.....	85,813	2	0	4,678	0	46	338
23	23.2-9	Refractory products, cut, shaped and finished stone.....	192,343	15,480	41,234	14,747	0	164	1,240
24	24	Basic metals.....	863,180	473,554	6,266	9,324	0	498	3,621
25	24.1-3	Basic iron and steel and ferro-alloys, other products of steel.....	733,436	463,945	6,266	2,838	0	259	1,883
26	24.4	Basic precious and other non-ferrous metals.....	84,558	2,003	0	5,316	0	169	1,224
27	24.5	Casting services of metal.....	45,186	7,606	0	1,170	0	71	514
28	25	Fabricated metal products, except machinery and equipment.....	103,053	171	0	14,777	0	609	4,454
29	26	Computer, electronic and optical products.....	28,815	0	0	4,651	0	462	3,444
30	27	Electrical equipment.....	30,355	57	0	4,776	0	424	3,072
31	28	Machinery and equipment n.e.c.....	81,445	110	0	13,586	0	1,071	7,910
32	29	Motor vehicles, trailers and semi-trailers.....	121,823	104	0	20,100	0	1,713	12,684
33	30	Other transport equipment.....	14,819	0	0	3,269	0	345	2,610
34	31-32	Furniture, other manufacture goods.....	30,270	0	0	3,838	0	188	1,399
35	33	Repair and installation services of machinery and equipment.....	18,278	0	0	5,509	0	220	1,601
36	D (35)	Electricity, gas, steam and air conditioning.....	5,649,123	1,095,005	1,462,643	64,482	0	466	6,944
37	35.1/3	Electricity, transmission and distribution services, steam.....	5,618,271	1,095,005	1,462,643	63,256	0	386	5,799
38	35.2	Manufactured gas.....	30,852	0	0	1,226	0	80	1,145
39	E	Water supply; sewerage, waste management and remediation services.....	125,005	0	0	53,326	0	2,062	50,656
40	36	Natural water; water treatment and supply services.....	33,378	0	0	968	0	31	937
41	37-39	Sewerage services; waste collection and materials recovery services.....	91,627	0	0	52,357	0	2,031	49,720
42	37	Sewerage services, sewerage sludge.....	23,396	0	0	5,681	0	501	5,168
43	38-39	Waste collection, treatment and disposal services.....	68,232	0	0	46,676	0	1,530	44,551
44	F	Constructions and construction works.....	224,955	0	0	194,315	0	3,811	90,546
45	41-42	Building and building construction works.....	136,446	0	0	127,646	0	1,633	37,530
46	43	Specialised construction works.....	88,509	0	0	66,669	0	2,178	53,017
47	G	Wholesale and retail trade services; repair services of motor vehicles.....	403,871	1,364	0	205,853	0	13,199	114,718
48	45	Wholesale and retail trade and repair services of motor vehicles.....	65,950	140	0	39,614	0	593	6,431
49	46	Wholesale trade services, except of motor vehicles and motorcycles.....	123,681	286	0	78,611	0	4,134	64,864
50	47	Retail trade services, except of motor vehicles and motorcycles.....	214,240	938	0	87,628	0	8,472	43,423
51	H	Transportation and storage services.....	1,230,078	0	0	1,108,261	0	3,756	409,173
52	49.1-2	Passenger rail transport services, freight rail transport services.....	31,615	0	0	8,021	0	5	5,765
53	49.3-5	Other passenger land transport services, transport service via pipeline.....	260,018	0	0	207,235	0	1,431	198,688
54	50	Water transport services.....	348,719	0	0	348,646	0	8	49,937
55	51	Air transport services.....	380,734	0	0	380,509	0	563	815
56	52	Warehousing and support services for transportation.....	152,078	0	0	116,755	0	967	109,019
57	53	Postal and courier services.....	56,914	0	0	47,095	0	783	44,948
58	I	Accommodation and food services.....	98,519	1,970	0	26,917	0	985	2,917
59	J	Information and communication services.....	85,712	0	0	32,410	0	2,234	24,992
60	K	Financial and insurance services.....	39,623	0	0	9,942	0	752	3,892
61	L	Real estate services.....	39,421	0	0	12,504	0	1,795	9,754
62	M	Professional, scientific and technical services.....	188,953	0	0	92,974	0	12,679	69,752
63	N	Administrative and support services.....	29,392	0	0	10,098	0	603	4,622
64	O	Public administration and defence services.....	147,915	0	0	51,390	0	7,875	24,004
65	P	Education services.....	88,716	146	0	16,079	0	229	1,655
66	Q	Human health and social work services.....	178,359	382	0	30,599	0	3,094	8,665
67	R-T	Other services.....	126,963	152	0	56,982	0	2,885	42,017
68		All homogeneous branches.....	17,955,645	1,964,164	1,694,959	7,747,144	3,978,960	119,736	1,058,587
69		Private households (residents consumption).....	3,643,254	14,539	14,067	1,764,512	0	748,034	547,227
70		All homogeneous branches and private households (residents concept) 3.....	21,598,900	1,978,703	1,709,026	9,511,657	3,978,960	867,770	1,605,814
71	+	Change in inventories.....	160,722	0	0	0	0	0	0
72	+	Losses due to flaring and distributions.....	3,014	-15,515	1,964	43,928	-10,261	15,466	29,121
73	+	Exports and bunkering non-residents on the territory.....	2,810,287	15,348	41,850	1,236,272	14,167	197,907	360,915
74	+	Statistical discrepancies.....	-71,911	2,906	-735	-30,906	-1	9	23
75	=	Total use (residents concept).....	24,501,012	1,981,442	1,752,105	10,760,951	3,982,865	1,081,153	1,995,873
76		Domestic production.....	11,967,632	437,450	1,750,723	4,558,038	103,212	896,642	1,227,339
77		Imports and bunkering of residents abroad.....	12,533,380	1,543,992	1,382	6,202,913	3,879,653	184,511	768,534

* 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 2015 (residents concept)*
terajoules

Mineral oil				Gases	Renewable energies and other non-renewable energy sources					Electricity	Nuclear energy	Remote heating	No.
Air fuel	Light fuel oil	Heavy fuel oil	Other mineral oil products		Together	Water and wind power, solar energy plant and other ²	Biomass	Renewable energies	non-renewable waste, waste heat, etc.				
0	14,987	0	1,710	5,207	41,431	0	39,897	1,535	0	18,574	0	500	1
0	14,987	0	1,709	5,206	41,396	0	39,861	1,535	0	17,723	0	500	2
0	0	0	1	0	33	0	33	0	0	426	0	0	3
0	0	0	0	0	3	0	3	0	0	426	0	0	4
0	719	50	890	13,751	1,047	0	1,047	0	0	31,792	0	7,688	5
0	92	0	0	775	36	0	36	0	0	23,120	0	7,543	6
0	7	0	0	8,638	49	0	49	0	0	2,258	0	29	7
0	620	50	890	4,337	962	0	962	0	0	6,414	0	116	8
225	98,796	226,199	1,200,887	1,077,479	218,382	0	141,393	0	76,989	826,913	0	177,801	9
0	9,706	1,019	728	113,138	2,794	0	2,794	0	0	69,768	0	9,825	10
0	769	0	30	11,110	61	0	61	0	0	8,521	0	117	11
0	873	163	109	6,772	61,608	0	61,571	0	37	12,316	0	4,858	12
0	891	341	716	79,525	40,991	0	37,883	0	3,108	68,458	0	27,293	13
0	616	0	8	9,418	57	0	57	0	0	12,991	0	1,253	14
225	46,538	62,618	623,071	71,830	8,443	0	1,639	0	6,804	22,858	0	3,786	15
0	0	0	18,684	25,206	1	0	1	0	0	1,072	0	0	16
225	46,538	62,618	604,387	46,624	8,442	0	1,638	0	6,804	21,786	0	3,786	17
0	13,267	157,283	549,731	309,419	35,699	0	2,349	0	33,350	178,042	0	92,199	18
0	326	0	2,614	10,682	1,317	0	1,317	0	0	328	0	4,984	19
0	2,455	93	777	24,500	1,939	0	1,939	0	0	54,894	0	4,822	20
0	3,383	3,409	10,845	104,137	52,040	0	18,679	0	33,361	45,063	0	775	21
0	352	2,782	1,160	62,191	1,308	0	811	0	497	17,335	0	299	22
0	3,031	627	9,686	41,946	50,732	0	17,868	0	32,864	27,728	0	476	23
0	1,469	1,261	2,475	219,264	545	0	286	0	259	151,598	0	2,629	24
0	618	39	39	179,628	172	0	172	0	0	79,147	0	1,441	25
0	321	1,222	2,381	24,442	343	0	84	0	259	51,271	0	1,181	26
0	530	0	55	15,194	30	0	30	0	0	21,179	0	7	27
0	7,877	0	1,837	35,257	1,546	0	1,478	0	68	49,879	0	1,423	28
0	726	0	19	5,781	303	0	303	0	0	14,698	0	3,382	29
0	1,206	0	74	6,901	220	0	220	0	0	16,658	0	1,742	30
0	3,896	12	696	23,863	910	0	909	0	1	39,202	0	3,773	31
0	1,388	0	4,314	32,511	1,001	0	1,000	0	1	55,812	0	12,295	32
0	299	0	14	5,830	177	0	177	0	0	4,398	0	1,145	33
0	2,171	0	81	4,326	8,593	0	8,593	0	0	12,316	0	1,196	34
0	940	0	2,747	3,214	139	0	139	0	0	9,112	0	305	35
0	12,254	10,011	34,808	685,414	1,171,192	492,875	524,558	6,693	147,066	169,089	1,001,297	0	36
0	12,254	10,011	34,806	685,344	1,149,202	492,875	502,569	6,693	147,066	161,524	1,001,297	0	37
0	0	0	2	71	21,990	0	21,990	0	0	7,566	0	0	38
0	559	0	49	1,109	18,720	0	18,720	0	0	51,550	0	300	39
0	0	0	1	40	58	0	58	0	0	32,311	0	0	40
0	559	0	48	1,069	18,663	0	18,663	0	0	19,239	0	300	41
0	0	0	12	75	270	0	270	0	0	17,370	0	0	42
0	559	0	36	994	18,393	0	18,393	0	0	1,869	0	300	43
0	13,168	0	86,790	14,092	2,220	0	2,220	0	0	14,328	0	0	44
0	3,719	0	84,764	3,978	775	0	775	0	0	4,047	0	0	45
0	9,449	0	2,026	10,113	1,445	0	1,445	0	0	10,282	0	0	46
0	50,928	0	27,008	82,152	6,922	0	6,922	0	0	104,081	0	3,497	47
0	8,070	0	24,519	12,476	316	0	316	0	0	12,805	0	600	48
0	9,516	0	98	16,288	4,770	0	4,770	0	0	23,026	0	699	49
0	33,342	0	2,391	53,389	1,837	0	1,837	0	0	68,250	0	2,198	50
378,962	7,384	296,659	12,327	30,468	25,448	0	25,448	0	0	62,903	0	2,998	51
0	209	0	2,042	710	784	0	784	0	0	21,900	0	200	52
0	957	0	6,160	16,672	14,736	0	14,736	0	0	21,375	0	0	53
0	0	296,659	2,042	0	72	0	72	0	0	0	0	0	54
378,962	168	0	0	150	76	0	76	0	0	0	0	0	55
0	4,704	0	2,065	8,779	6,751	0	6,751	0	0	17,595	0	2,198	56
0	1,346	0	18	4,157	3,029	0	3,029	0	0	2,033	0	600	57
0	20,203	0	2,812	20,599	152	0	152	0	0	46,783	0	2,098	58
0	5,130	0	53	15,791	1,608	0	1,608	0	0	33,606	0	2,298	59
0	5,279	0	18	15,997	220	0	220	0	0	11,266	0	2,198	60
0	912	0	43	2,777	428	0	428	0	0	23,313	0	400	61
0	9,246	0	1,297	26,538	3,154	0	3,154	0	0	62,991	0	3,297	62
0	4,858	0	14	10,606	237	0	237	0	0	6,553	0	1,898	63
3,278	13,803	0	2,430	40,676	10,753	0	10,406	347	0	39,002	0	6,095	64
0	14,189	0	5	39,092	2,895	0	2,669	226	0	16,614	0	13,889	65
0	18,767	0	73	78,979	5,786	0	5,404	382	0	51,222	0	11,391	66
0	12,011	0	68	27,107	8,131	0	5,832	2,299	0	28,197	0	6,395	67
382,465	303,194	532,919	1,371,283	2,187,833	1,518,726	492,875	790,315	11,481	224,055	1,598,779	1,001,297	242,743	68
0	427,067	0	42,184	868,179	347,531	0	284,689	62,842	0	464,022	0	170,404	69
382,465	730,261	532,919	1,413,467	3,056,012	1,866,257	492,875	1,075,004	74,323	224,055	2,062,801	1,001,297	413,147	70
0	0	0	0	23,221	964	0	964	0	0	92,178	0	44,359	71
16,490	-6,398	1,845	-2,335	-27,363	0	0	0	0	0	0	0	0	72
210,117	79,968	175,365	197,833	1,143,642	65,928	0	65,928	0	0	307,045	0	202	73
0	-278	11,834	-42,493	-43,736	619	0	618	0	1	1	0	-60	74
609,072	803,553	721,963	1,566,472	4,151,776	1,933,768	492,875	1,142,514	74,323	224,056	2,462,025	1,001,297	457,648	75
220,563	620,240	353,072	1,136,970	544,926	1,890,107	492,875	1,098,853	74,323	224,056	2,328,797	0	457,591	76
388,509	183,313	368,891	429,502	3,606,850	43,661	0	43,661	0	0	133,228	1,001,297	57	77

Table 3.2.4: Transformation sectors: transformation input and output*

No.	Transformation sectors	2000	2005	2010	2011	2012	2013	2014	2015
		transformation input (petajoules)							
1	Coking plants.....	353	326	352	342	338	349	358	356
2	Hard and brown coal briquetting plants.....	113	111	126	141	138	143	137	136
3	Heat power stations.....	3,336	3,447	3,335	3,274	3,334	3,375	3,228	3,146
4	Nuclear power stations.....	1,851	1,779	1,533	1,178	1,085	1,061	1,060	1,001
5	Water and wind power station and other plants 1.....	149	311	642	734	643	683	725	815
6	Thermal power station.....	353	540	575	539	556	540	494	512
7	Blast furnaces.....	166	167	144	165	161	165	164	166
8	Refineries.....	4,992	5,302	4,338	4,279	4,319	4,206	4,152	4,245
9	Other energy producer 2.....	305	374	413	414	285	273	282	289
10	Total.....	11,617	12,357	11,458	11,066	10,858	10,796	10,600	10,666
		transformation output (petajoules)							
11	Coking plants.....	359	312	317	333	342	311	330	332
12	Hard and brown coal briquetting plants.....	111	110	129	143	140	145	143	138
13	Heat power stations.....	1,319	1,423	1,401	1,382	1,401	1,412	1,339	1,335
14	Nuclear power stations.....	611	587	506	389	358	350	350	330
15	Water and wind power station and other plants 1.....	141	224	354	421	508	537	572	663
16	Thermal power station.....	313	509	535	486	502	488	438	458
17	Blast furnaces.....	180	181	183	177	172	178	177	181
18	Refineries.....	4,958	5,235	4,307	4,245	4,279	4,171	4,101	4,179
19	Other energy producer 2.....	314	378	436	426	298	293	298	276
20	Total.....	8,307	8,959	8,167	8,002	8,000	7,885	7,747	7,892
		transformation output (asa percentage)							
21	Coking plants.....	4.3	3.5	3.9	4.2	4.3	3.9	4.3	4.2
22	Hard and brown coal briquetting plants.....	1.3	1.2	1.6	1.8	1.7	1.8	1.8	1.7
23	Heat power stations.....	15.9	15.9	17.2	17.3	17.5	17.9	17.3	16.9
24	Nuclear power stations.....	7.4	6.6	6.2	4.9	4.5	4.4	4.5	4.2
25	Water and wind power station and other plants 1.....	1.7	2.5	4.3	5.3	6.4	6.8	7.4	8.4
26	Thermal power station.....	3.8	5.7	6.5	6.1	6.3	6.2	5.7	5.8
27	Blast furnaces.....	2.2	2.0	2.2	2.2	2.1	2.3	2.3	2.3
28	Refineries.....	59.7	58.4	52.7	53.1	53.5	52.9	52.9	53.0
29	Other energy producer 2.....	3.8	4.2	5.3	5.3	3.7	3.7	3.8	3.5
30	Total.....	100	100	100	100	100	100	100	100
		transformation efficiency (output/input [as a percentage])							
31	Coking plants.....	101.6	95.7	90.1	97.2	101.2	89.2	92.2	93.2
32	Hard and brown coal briquetting plants.....	98.0	99.3	102.0	101.6	101.6	101.3	104.5	101.0
33	Heat power stations.....	39.5	41.3	42.0	42.2	42.0	41.8	41.5	42.4
34	Nuclear power stations.....	33.0	33.0	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	78.9	81.4
36	Thermal power station.....	88.9	94.2	93.1	90.1	90.3	90.5	88.7	89.4
37	Blast furnaces.....	108.6	108.5	126.9	106.9	106.9	107.7	107.9	108.9
38	Refineries.....	99.3	98.7	99.3	99.2	99.1	99.2	98.7	98.5
39	Other energy producer 2.....	103.1	101.0	105.5	103.0	104.4	107.2	105.6	95.3
40	Total.....	71.5	72.5	71.3	72.3	73.7	73.0	73.1	74.0

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

1 Including biogas and generation plants of other energy producers.

2 Without electricity generation plants.

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

No.	Type of power stations	2000	2005	2010	2011	2012	2013	2014	2015
		transformation input (petajoules)							
1	Public heat power stations.....	2,885	3,023	2,915	2,887	3,008	3,039	2,878	2,774
2	Industry power stations.....	451	424	420	387	326	335	350	372
3	Nuclear power stations.....	1,851	1,779	1,533	1,178	1,085	1,061	1,060	1,001
4	Hydro, wind power stations and other.....	149	311	642	734	643	683	725	815
5	Hydropower stations.....	114	105	106	92	108	111	99	97
6	Wind power stations and others 1.....	35	207	536	642	535	573	625	717
7	Total.....	5,335	5,537	5,511	5,186	5,061	5,119	5,012	4,962
	memorandum item:								
8	Own account consumption of power stations.....	137	140	132	125	133	133	129	133
		gross generation of electricity (petajoules)							
9	Public heat power stations.....	1,137	1,244	1,212	1,201	1,244	1,251	1,175	1,155
10	Industry power stations.....	182	179	189	181	157	161	164	180
11	Nuclear power stations.....	611	587	506	389	358	350	350	330
12	Hydro, wind power stations and other.....	141	224	354	421	508	537	572	663
13	Hydropower stations.....	106	96	98	85	100	104	92	90
14	Wind power stations and others 1.....	35	128	256	337	408	434	480	573
15	Total.....	2,071	2,234	2,261	2,192	2,267	2,299	2,260	2,329
		gross generation of electricity (as a percentage)							
16	Public heat power stations.....	54.9	55.7	53.6	54.8	54.9	54.4	52.0	49.6
17	Industry power stations.....	8.8	8.0	8.4	8.3	6.9	7.0	7.2	7.7
18	Nuclear power stations.....	29.5	26.3	22.4	17.7	15.8	15.2	15.5	14.2
19	Hydro, wind power stations and other.....	6.8	10.0	15.7	19.2	22.4	23.4	25.3	28.5
20	Hydropower stations.....	5.1	4.3	4.4	3.9	4.4	4.5	4.1	3.8
21	Wind power stations and others 1.....	1.7	5.7	11.3	15.4	18.0	18.9	21.2	24.6
22	Total.....	100	100	100	100	100	100	100	100
		transformation efficiency (gross generation/transformation input (as a percentage))							
23	Public heat power stations.....	39.4	41.2	41.6	41.6	41.4	41.2	40.8	41.6
24	Industry power stations.....	40.4	42.2	45.0	46.8	48.3	48.0	46.7	48.4
25	Nuclear power stations.....	33.0	33.0	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	78.9	81.4
27	Hydropower stations.....	93.1	91.8	92.5	92.3	93.3	93.4	92.2	92.1
28	Wind power stations and others 1.....	100.0	61.8	47.7	52.4	76.2	75.7	76.8	79.9
29	Total.....	38.8	40.3	41.0	42.3	44.8	44.9	45.1	46.9
		transformation efficiency (gross generation/transformation input (2005 = 100))							
30	Public heat power stations.....	95.7	100	101.0	101.1	100.5	100.0	99.2	101.2
31	Industry power stations.....	95.7	100	106.5	110.7	114.5	113.7	110.6	114.7
32	Nuclear power stations.....	100.0	100	100.0	100.0	100.0	100.0	100.0	100.0
33	Hydro, wind power stations and other 1.....	131.8	100	76.7	79.9	110.0	109.3	109.8	113.3
34	Total.....	101.4	100	100.8	100.6	101.7	101.8	100.5	100.4

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	2014	2015
		transformation input (petajoules)							
1	Hydro, wind, solar power and other 1.....	149	311	642	734	643	683	725	815
2	Nuclear power	1,851	1,779	1,533	1,178	1,085	1,061	1,060	1,001
3	Hard coal.....	1,268	1,161	1,012	961	1,007	1,115	1,041	981
4	Brown coal (lignite).....	1,420	1,458	1,364	1,410	1,495	1,473	1,432	1,421
5	Natural gas.....	391	497	576	538	466	398	351	349
6	Mineral oil products.....	82	103	72	61	55	59	59	50
7	Other energy sources.....	175	227	311	304	311	330	345	345
8	Total.....	5,335	5,537	5,511	5,186	5,061	5,119	5,012	4,962
		gross generation of electricity (petajoules)							
9	Hydro, wind, solar power and other 1.....	141	224	354	421	508	537	572	663
10	Nuclear power	611	587	506	389	358	350	350	330
11	Hard coal.....	515	483	421	405	419	458	427	424
12	Brown coal (lignite).....	534	555	525	540	579	579	561	556
13	Natural gas.....	177	256	312	297	275	243	220	223
14	Mineral oil products.....	19	42	30	24	27	26	20	22
15	Other energy sources.....	74	89	112	115	101	105	110	110
16	Total.....	2,071	2,234	2,261	2,192	2,267	2,299	2,260	2,329
		gross generation of electricity (as a percentage)							
17	Hydro, wind, solar power and other 1.....	6.8	10.0	15.7	19.2	22.4	23.4	25.3	28.5
18	Nuclear power	29.5	26.3	22.4	17.7	15.8	15.2	15.5	14.2
19	Hard coal.....	24.9	21.6	18.6	18.5	18.5	19.9	18.9	18.2
20	Brown coal (lignite).....	25.8	24.8	23.2	24.7	25.5	25.2	24.8	23.9
21	Natural gas.....	8.6	11.4	13.8	13.5	12.1	10.6	9.7	9.6
22	Mineral oil products.....	0.9	1.9	1.3	1.1	1.2	1.1	0.9	1.0
23	Other energy sources.....	3.6	4.0	5.0	5.3	4.5	4.6	4.9	4.7
24	Total.....	100	100	100	100	100	100	100	100
		transformation efficiency (gross generation/transformation input [as a percentage])							
25	Hydro, wind, solar power and other 1.....	94.7	71.9	55.1	57.4	79.0	78.6	78.9	81.4
26	Nuclear power	33.0	33.0	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	41.1	41.0	43.2
28	Brown coal (lignite).....	37.6	38.1	38.5	38.3	38.7	39.3	39.2	39.1
29	Natural gas.....	45.3	51.4	54.3	55.2	59.0	61.1	62.7	64.0
30	Mineral oil products.....	22.7	40.3	41.8	40.2	50.0	43.7	34.4	45.0
31	Other energy sources.....	42.5	38.9	36.0	38.0	32.6	32.0	32.0	31.8
32	Total.....	38.8	40.3	41.0	42.3	44.8	44.9	45.1	46.9

1 Including biogas and generation plants of other energy producers.

Table: 3.3.1: Consumption of primary energy*

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

No.	CPA ¹	Homogeneous branches	2000	2005	2010	2011	2012	2013	2014	2015
1	A	Products of agriculture, forestry and fishing.....	207,306	202,914	215,738	211,276	231,378	241,359	227,162	240,063
2	01	Products of agriculture, hunting and related services.....	197,257	193,095	205,532	201,266	225,278	232,282	218,860	231,166
3	02	Products of forestry, logging and related services.....	6,920	7,200	7,524	7,574	5,019	6,534	6,155	6,605
4	03	Fish and other fishing products; aquaculture products.....	3,129	2,619	2,682	2,436	1,082	2,544	2,147	2,292
5	B	Mining and quarrying.....	95,968	88,429	80,462	80,088	68,200	69,021	67,689	71,883
6	05	Coal and lignite.....	36,338	37,013	34,999	39,233	30,736	29,368	29,112	33,185
7	06	Crude petroleum and natural gas.....	23,675	17,087	11,290	11,503	11,173	11,780	11,647	11,661
8	07-09	Metal ores, other mining and quarrying products.....	35,955	34,330	34,172	29,352	26,291	27,873	26,930	27,038
9	C	Manufactured products.....	5,293,935	5,565,082	5,398,266	5,388,139	5,213,162	5,220,340	5,213,992	5,184,109
10	10-12	Food products, beverages, tobacco products.....	339,234	347,781	350,377	340,044	337,168	336,191	337,983	328,925
11	13-15	Textiles, wearing apparel, leather and related products.....	83,381	62,856	43,852	40,437	37,226	36,408	35,157	34,468
12	16	Wood and products of wood and cork, except furniture.....	74,293	94,873	115,766	118,240	92,404	108,154	114,913	106,771
13	17	Paper and paper products.....	309,988	451,523	387,252	368,986	347,885	358,447	349,580	339,709
14	18	Printing and recording services.....	53,445	65,080	43,471	40,052	46,075	38,826	36,412	44,784
15	19	Coke and refined petroleum products.....	375,247	442,821	357,640	347,370	349,891	377,064	360,028	431,294
16	19.1	Coke oven products.....	53,651	50,253	69,734	42,889	33,124	62,271	59,445	55,621
17	19.2	Refined petroleum products.....	321,596	392,568	287,906	304,480	316,767	314,793	300,583	375,674
18	20	Chemicals and chemical products.....	1,628,094	1,736,721	1,766,984	1,761,053	1,705,549	1,691,007	1,719,349	1,683,906
19	21	Basic pharmaceutical products and pharmaceutical preparations.....	75,954	41,789	33,990	37,760	39,315	38,381	36,035	31,624
20	22	Rubber and plastic products.....	170,127	182,415	198,917	186,523	178,777	179,030	178,816	175,086
21	23	Other non-metallic mineral products.....	404,782	338,964	360,835	372,357	350,417	348,117	348,826	345,552
22	23.1	Glass and glass products.....	137,724	120,790	120,386	121,201	110,437	112,280	112,907	111,740
23	23.2-9	Refractory products, cut, shaped and finished stone.....	267,058	218,174	240,449	251,155	239,981	235,837	235,919	233,812
24	24	Basic metals.....	1,040,118	986,600	916,177	942,613	917,824	883,645	880,251	908,844
25	24.1-3	Basic iron and steel and ferro-alloys, other products of steel.....	764,145	695,275	677,864	711,506	703,455	673,965	665,792	670,751
26	24.4	Basic precious and other non-ferrous metals.....	211,546	202,464	157,629	145,786	134,186	135,808	144,139	161,279
27	24.5	Casting services of metal.....	64,427	88,861	80,683	85,321	80,183	73,873	70,320	76,814
28	25	Fabricated metal products, except machinery and equipment.....	163,800	184,996	197,760	202,923	192,742	205,856	206,538	177,682
29	26	Computer, electronic and optical products.....	69,474	64,177	58,121	65,935	63,795	60,981	58,209	55,669
30	27	Electrical equipment.....	75,844	72,352	68,908	74,812	70,918	70,000	82,272	56,637
31	28	Machinery and equipment n.e.c.....	152,130	159,036	165,300	160,842	158,557	154,723	151,059	143,888
32	29	Motor vehicles, trailers and semi-trailers.....	218,877	248,889	230,780	225,211	221,716	227,954	220,645	215,476
33	30	Other transport equipment.....	27,656	34,066	25,399	23,518	23,427	24,176	23,049	23,049
34	31-32	Furniture, other manufacture goods.....	26,728	27,392	47,691	49,834	47,811	51,464	43,381	48,822
35	33	Repair and installation services of machinery and equipment.....	4,762	22,749	29,047	29,629	31,668	29,916	31,486	31,922
36	D (35)	Electricity, gas, steam and air conditioning.....	37,832	47,484	49,946	48,463	54,636	50,179	51,661	52,841
37	35.1/3	Electricity, transmission and distribution services, steam.....	3,944	9,293	8,431	8,102	10,762	10,250	10,217	10,697
38	35.2	Manufactured gas.....	33,888	38,192	41,515	40,361	43,875	39,929	41,444	42,144
39	E	Water supply; sewerage, waste management and remediation services.....	215,279	196,044	214,793	205,807	197,107	218,331	200,841	202,012
40	36	Natural water; water treatment and supply services.....	86,104	78,245	91,617	85,594	81,705	88,705	81,497	81,604
41	37-39	Sewerage services; waste collection and materials recovery services.....	129,175	117,799	123,177	120,213	115,401	129,627	119,343	120,407
42	37	Sewerage services, sewerage sludge.....	54,171	46,674	53,262	50,928	50,258	52,131	48,969	49,321
43	38-39	Waste collection, treatment and disposal services.....	75,004	71,125	69,914	69,285	65,143	77,495	70,374	71,086
44	F	Constructions and construction works.....	315,887	252,128	247,335	260,945	235,236	236,800	237,646	246,341
45	41-42	Building and building construction works.....	220,860	169,595	153,846	164,812	138,941	133,820	137,851	142,486
46	43	Specialised construction works.....	95,027	82,533	93,489	96,133	96,295	103,549	99,795	103,855
47	G	Wholesale and retail trade services; repair services of motor vehicles.....	704,130	632,991	602,758	553,705	550,629	571,827	557,330	559,668
48	45	Wholesale and retail trade and repair services of motor vehicles.....	106,819	84,688	90,679	80,929	84,170	88,282	84,237	85,148
49	46	Wholesale trade services, except of motor vehicles and motorcycles.....	200,867	189,282	166,388	156,790	156,672	160,998	156,634	158,111
50	47	Retail trade services, except of motor vehicles and motorcycles.....	396,445	359,021	345,691	315,985	309,787	322,547	316,458	316,409
51	H	Transportation and storage services.....	1,025,545	1,316,329	1,347,787	1,283,963	1,326,886	1,329,732	1,295,586	1,324,424
52	49.1-2	Passenger rail transport services, freight rail transport services.....	161,528	154,297	75,540	75,777	69,257	69,744	66,901	64,308
53	49.3-5	Other passenger land transport services, transport service via pipeline.....	189,989	241,803	306,037	304,147	294,672	292,731	289,560	291,936
54	50	Water transport services.....	61,087	289,396	347,584	297,632	340,234	337,176	319,906	348,719
55	51	Air transport services.....	379,082	396,813	383,562	383,972	406,527	404,745	388,428	380,734
56	52	Warehousing and support services for transportation.....	179,356	181,117	183,162	177,594	171,913	174,374	173,743	178,674
57	53	Postal and courier services.....	54,504	52,903	51,902	44,841	44,284	50,961	57,047	60,053
58	I	Accommodation and food services.....	187,696	194,154	192,765	176,994	170,240	173,034	164,296	168,638
59	J	Information and communication services.....	159,163	163,403	159,207	149,672	152,201	150,190	134,852	136,550
60	K	Financial and insurance services.....	78,597	71,751	66,090	59,194	59,687	62,733	56,743	56,743
61	L	Real estate services.....	73,387	67,804	74,630	69,584	71,983	71,993	69,838	74,264
62	M	Professional, scientific and technical services.....	191,916	206,570	235,114	219,456	220,453	233,424	226,049	235,086
63	N	Administrative and support services.....	25,620	29,038	34,555	33,419	28,749	30,668	36,567	39,442
64	O	Public administration and defence services.....	239,641	215,446	228,127	204,775	192,495	212,237	199,226	206,928
65	P	Education services.....	147,005	159,829	159,860	135,140	121,843	130,759	116,611	120,328
66	Q	Human health and social work services.....	219,184	249,389	267,606	242,985	233,772	252,576	244,265	258,818
67	R-T	Other services.....	250,950	222,625	206,294	176,774	168,055	173,278	167,163	169,880
68		All homogeneous branches.....	9,469,039	9,881,411	9,781,333	9,500,379	9,296,713	9,428,513	9,267,636	9,348,019
69		Private households (residents consumption).....	4,821,317	4,899,925	4,950,378	4,551,653	4,564,020	4,705,090	4,294,647	4,359,106
70		All homogeneous branches and private households (residents concept).....	14,290,356	14,781,337	14,731,711	14,052,032	13,860,733	14,133,603	13,562,283	13,707,125
71		Balance of bunkering 2.....	-112,792	-498,079	-567,011	-537,017	-571,841	-539,101	-511,486	-534,424
72		Statistical discrepancies 3.....	52,406	99,327	-115,310	-78,648	9,000	75,773	-26,519	-71,911
73		Losses due to flaring and distributions 4.....	170,832	175,774	151,931	148,031	149,165	151,334	155,302	160,722
74		Primary domestic energy consumption.....	14,400,803	14,558,358	14,201,321	13,584,398	13,447,057	13,821,609	13,179,580	13,261,511

* 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 flaring and distributions are not attributed to consumers.

Table 3.3.2: Intensity of primary energy consumption*

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

No.	CPA ¹	Homogeneous branches	2000	2005	2010	2011	2012	2013	2014
1	A	Products of agriculture, forestry and fishing.....	76.6	100	105.2	91.5	104.0	88.0	99.3
2	B	Mining and quarrying.....	84.9	100	80.8	76.6	69.5	74.6	78.0
3	C	Manufactured products.....	100.2	100	89.4	82.7	81.4	82.0	77.6
4	D (35)	Electricity, gas, steam and air conditioning.....	91.4	100	108.4	109.6	112.3	102.2	108.4
5	E	Water supply; sewerage, waste management and remediation services.....	121.1	100	102.3	92.9	88.2	98.5	86.6
6	F	Constructions and construction works.....	99.3	100	81.8	81.7	72.2	73.2	71.7
7	G	Wholesale and retail trade services; repair services of motor vehicles.....	119.5	100	95.3	81.2	84.7	89.3	82.4
8	H	Transportation and storage services.....	86.7	100	93.5	89.2	88.2	84.9	85.9
9	I	Accommodation and food services.....	93.3	100	96.6	83.6	78.1	82.4	74.6
10	J	Information and communication services.....	103.2	100	93.2	80.9	80.7	78.6	69.3
11	K	Financial and insurance services.....	135.5	100	99.8	96.8	95.2	97.3	89.3
12	L	Real estate services.....	115.3	100	100.4	89.6	95.5	94.2	93.5
13	M	Professional, scientific and technical services.....	93.2	100	111.1	101.1	97.1	101.9	98.7
14	N	Administrative and support services.....	98.5	100	107.9	100.0	83.8	82.3	92.0
15	O	Public administration and defence services.....	111.2	100	98.5	87.9	81.8	89.6	83.6
16	P	Education services.....	96.4	100	92.9	76.1	67.7	71.6	62.8
17	Q	Human health and social work services.....	97.3	100	94.6	83.5	77.5	82.0	76.9
18	R-T	Other services.....	118.3	100	89.6	75.4	72.1	73.7	70.5
19		Total.....	100.4	100	93.0	86.7	84.6	84.9	81.9

* 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.

Figures for value added at current prices and price-adjusted figures are shown in part 1, chapter 2, tables 2.1 to 2.3.

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

Table 3.3.3.1: Allocation of transformation losses to final use sectors

terajoules

No.	Specification	Electricity	Remote heating	Total	All energy sources
2000					
1	+ Transformation input of power stations.....	5,334,751	352,600	5,687,351	11,616,589
2	- Transformation output of power stations.....	2,070,523	313,484	2,384,007	8,306,631
3	= Transformation losses of power stations.....	3,264,228	39,116	3,303,344	3,309,958
4	+ Internal consumption of power stations.....	137,871	0	137,871	565,242
5	= Total.....	3,402,099	39,116	3,441,215	3,875,200
6	Manufacturing				
7	+ Final energy consumption 1.....	748,452	42,650	791,102	2,421,386
8	+ Share power station losses / internal consumption.....	1,430,823	6,302	1,437,125	1,437,125
9	= Primary energy consumption.....	2,179,275	48,952	2,228,227	3,858,510
10	Small consumers (agriculture, trade and services)				
11	+ Final energy consumption 1.....	504,083	90,680	594,763	1,477,633
12	+ Share power station losses / internal consumption.....	963,660	13,399	977,059	977,059
13	= Primary energy consumption.....	1,467,743	104,079	1,571,822	2,454,692
14	Transport				
15	+ Final energy consumption 1.....	57,276	0	57,276	2,751,332
16	+ Share power station losses / internal consumption.....	109,495	0	109,495	109,495
17	= Primary energy consumption.....	166,771	0	166,771	2,860,827
18	Private households				
19	+ Final energy consumption 1.....	469,800	131,400	601,200	2,584,225
20	+ Share power station losses / internal consumption.....	898,121	19,415	917,536	917,536
21	= Primary energy consumption.....	1,367,921	150,815	1,518,736	3,501,761
22	Final energy total.....				
23	+ Final energy consumption 1.....	1,779,611	264,730	2,044,341	9,234,576
24	+ Share power station losses / internal consumption.....	3,402,099	39,116	3,441,215	3,441,215
25	= Primary energy consumption.....	5,181,710	303,846	5,485,556	12,675,791
2005					
26	+ Transformation input of power stations.....	5,536,801	539,933	6,076,734	12,357,410
27	- Transformation output of power stations.....	2,234,066	508,797	2,742,864	8,959,307
28	= Transformation losses of power stations.....	3,302,735	31,135	3,333,870	3,398,103
29	+ Internal consumption of power stations.....	146,949	0	146,949	611,123
30	= Total.....	3,449,684	31,135	3,480,819	4,009,226
31	Manufacturing				
32	+ Final energy consumption 1.....	822,510	113,556	936,066	2,513,586
33	+ Share power station losses / internal consumption.....	1,522,553	7,851	1,530,405	1,530,405
34	= Primary energy consumption.....	2,345,063	121,408	2,466,471	4,043,991
35	Small consumers (agriculture, trade and services)				
36	+ Final energy consumption 1.....	474,070	183,094	657,164	1,469,169
37	+ Share power station losses / internal consumption.....	877,553	12,659	890,212	890,212
38	= Primary energy consumption.....	1,351,623	195,753	1,547,376	2,359,381
39	Transport				
40	+ Final energy consumption 1.....	58,320	0	58,320	2,586,164
41	+ Share power station losses / internal consumption.....	107,957	0	107,957	107,957
42	= Primary energy consumption.....	166,277	0	166,277	2,694,121
43	Private households				
44	+ Final energy consumption 1.....	508,680	153,667	662,347	2,590,757
45	+ Share power station losses / internal consumption.....	941,621	10,625	952,245	952,245
46	= Primary energy consumption.....	1,450,301	164,292	1,614,592	3,543,003
47	Final energy total.....				
48	+ Final energy consumption 1.....	1,863,580	450,317	2,313,897	9,159,677
49	+ Share power station losses / internal consumption.....	3,449,684	31,135	3,480,819	3,480,820
50	= Primary energy consumption.....	5,313,263	481,453	5,794,716	12,640,496

Table 3.3.3.1: Allocation of transformation losses to final use sectors

terajoules

No.	Specification	Electricity	Remote heating	Total	All energy sources
2010					
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.....	3,249,420	39,914	3,289,334	3,290,843
54	+ Internal consumption of power stations.....	141,412	0	141,412	545,558
55	= Total.....	3,390,832	39,914	3,430,746	3,836,401
56	Manufacturing				
57	+ Final energy consumption 1.....	798,811	145,858	944,669	2,592,242
58	+ Share power station losses / internal consumption.....	1,438,379	12,337	1,450,716	1,450,716
59	= Primary energy consumption.....	2,237,191	158,195	2,395,386	4,042,958
60	Small consumers (agriculture, trade and services)				
61	+ Final energy consumption 1.....	529,499	136,631	666,130	1,482,507
62	+ Share power station losses / internal consumption.....	953,441	11,556	964,998	964,998
63	= Primary energy consumption.....	1,482,940	148,187	1,631,128	2,447,505
64	Transport				
65	+ Final energy consumption 1, 2.....	44,686	0	44,686	2,559,299
66	+ Share power station losses / internal consumption.....	80,465	0	80,465	65,031
67	= Primary energy consumption.....	125,151	0	125,151	2,624,330
68	Private households				
69	+ Final energy consumption 1.....	510,120	189,416	699,536	2,675,664
70	+ Share power station losses / internal consumption.....	918,547	16,021	934,568	934,568
71	= Primary energy consumption.....	1,428,667	205,437	1,634,104	3,610,232
72	Final energy total.....				
73	+ Final energy consumption 1.....	1,883,117	471,905	2,355,022	9,309,712
74	+ Share power station losses / internal consumption.....	3,390,832	39,914	3,430,746	3,415,312
75	= Primary energy consumption.....	5,273,949	511,819	5,785,768	12,725,024
2015					
76	+ Transformation input of power stations.....	4,962,028	511,672	5,473,700	10,665,916
77	- Transformation output of power stations.....	2,328,797	457,591	2,786,388	7,891,776
78	= Transformation losses of power stations.....	2,633,231	54,081	2,687,312	2,774,140
79	+ Internal consumption of power stations.....	133,876	0	133,876	539,148
80	= Total.....	2,767,108	54,081	2,821,189	3,313,288
81	Manufacturing				
82	+ Final energy consumption 1.....	809,562	173,432	982,994	2,547,892
83	+ Share power station losses / internal consumption.....	1,208,902	23,344	1,232,246	1,232,246
84	= Primary energy consumption.....	2,018,464	196,776	2,215,240	3,780,138
85	Small consumers (agriculture, trade and services)				
86	+ Final energy consumption 1.....	539,555	57,953	597,508	1,427,755
87	+ Share power station losses / internal consumption.....	805,706	7,801	813,507	813,507
88	= Primary energy consumption.....	1,345,261	65,754	1,411,015	2,241,262
89	Transport				
90	+ Final energy consumption 1.....	39,848	0	39,848	2,620,788
91	+ Share power station losses / internal consumption.....	60,635	0	60,635	60,635
92	= Primary energy consumption.....	101,240	0	101,240	2,681,423
93	Private households				
94	+ Final energy consumption 1.....	463,320	170,404	633,724	2,301,657
95	+ Share power station losses / internal consumption.....	691,866	22,936	714,802	714,802
96	= Primary energy consumption.....	1,155,186	193,340	1,348,526	3,016,459
97	Final energy total.....				
98	+ Final energy consumption 1.....	1,852,285	401,789	2,254,074	8,898,092
99	+ Share power station losses / internal consumption.....	2,767,109	54,081	2,821,190	2,821,189
100	= Primary energy consumption.....	4,620,151	455,870	5,076,021	11,719,281

1 Original data from energy balance.

2 For railways for 2008 to 2011 figures were used which deviate from the national 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)

terajoules

No.	CPA ¹	Homogeneous branches	2000	2005	2010	2011	2012	2013	2014	2015
1	A	Products of agriculture, forestry and fishing.....	37,103	37,409	33,301	30,318	28,276	30,583	26,737	28,220
2	01	Products of agriculture, hunting and related services.....	35,046	35,680	31,306	28,655	28,276	28,837	25,505	26,950
3	02	Products of forestry, logging and related services.....	1,094	864	998	832	0	873	616	635
4	03	Fish and other fishing products; aquaculture products.....	963	864	998	832	0	873	616	635
5	B	Mining and quarrying.....	13,313	13,079	13,938	11,662	10,133	10,086	10,165	9,596
6	05	Coal and lignite.....	0	0	0	0	0	0	0	0
7	06	Crude petroleum and natural gas.....	3	3	0	0	0	0	0	0
8	07-09	Metal ores, other mining and quarrying products.....	13,310	13,076	13,938	11,662	10,133	10,086	10,165	9,596
9	C	Manufactured products.....	1,481,003	1,563,401	1,494,378	1,444,316	1,334,024	1,326,310	1,345,285	1,264,589
10	10-12	Food products, beverages, tobacco products.....	117,114	123,626	122,486	117,026	110,563	110,628	110,008	105,504
11	13-15	Textiles, wearing apparel, leather and related products.....	33,336	24,009	17,144	15,147	14,018	13,342	12,978	12,759
12	16	Wood and products of wood and cork, except furniture.....	30,417	31,250	31,348	29,611	26,490	26,388	25,733	19,050
13	17	Paper and paper products.....	129,165	146,264	138,245	129,633	118,064	115,493	114,006	105,905
14	18	Printing and recording services.....	25,367	32,233	19,863	17,859	20,165	16,190	15,192	19,572
15	19	Coke and refined petroleum products.....	0	0	0	0	0	0	0	1
16	19.1	Coke oven products.....	0	0	0	0	0	0	0	0
17	19.2	Refined petroleum products.....	0	0	0	0	0	0	0	1
18	20	Chemicals and chemical products.....	314,378	336,076	325,306	311,045	292,099	291,770	302,601	290,804
19	21	Basic pharmaceutical products and pharmaceutical preparations.....	22,998	14,550	13,297	13,100	12,495	12,370	12,147	9,962
20	22	Rubber and plastic products.....	88,621	93,951	100,665	94,659	87,301	87,117	87,609	82,617
21	23	Other non-metallic mineral products.....	93,225	84,427	81,064	80,191	70,423	70,477	69,533	67,396
22	23.1	Glass and glass products.....	37,458	32,767	32,647	31,278	27,327	28,256	27,034	25,927
23	23.2-9	Refractory products, cut, shaped and finished stone.....	55,767	51,660	48,417	48,914	43,096	42,221	42,498	41,469
24	24	Basic metals.....	291,852	302,855	262,870	251,405	226,809	221,711	224,802	226,731
25	24.1-3	Basic iron and steel and ferro-alloys, other products of steel.....	151,891	150,622	149,482	144,219	131,799	126,000	126,220	118,382
26	24.4	Basic precious and other non-ferrous metals.....	113,302	109,877	79,832	71,883	63,402	64,567	66,256	76,721
27	24.5	Casting services of metal.....	26,659	42,356	33,556	35,302	31,608	31,144	32,325	31,628
28	25	Fabricated metal products, except machinery and equipment.....	69,889	80,159	90,264	92,018	84,403	92,094	95,051	74,630
29	26	Computer, electronic and optical products.....	35,385	34,143	31,000	34,076	31,360	28,945	28,324	26,853
30	27	Electrical equipment.....	40,635	38,844	35,592	38,871	36,022	35,520	42,357	26,283
31	28	Machinery and equipment n.e.c.....	67,144	69,272	74,202	72,355	67,521	66,174	67,002	62,443
32	29	Motor vehicles, trailers and semi-trailers.....	106,647	118,412	108,367	103,727	95,167	97,868	98,561	93,652
33	30	Other transport equipment.....	11,429	13,360	9,501	9,287	8,625	8,510	8,427	8,230
34	31-32	Furniture, other manufacture goods.....	9,800	8,247	19,529	20,336	17,978	17,927	17,303	18,552
35	33	Repair and installation services of machinery and equipment.....	-6,398	11,721	13,634	13,970	14,521	13,785	13,652	13,644
36	D (35)	Electricity, gas, steam and air conditioning.....	-3,432,010	-3,469,352	-3,417,814	-3,187,212	-2,971,588	-2,994,008	-2,927,018	-2,809,894
37	35.1/3	Electricity, transmission and distribution services, steam.....	-3,441,215	-3,480,819	-3,430,746	-3,199,533	-2,984,057	-3,006,294	-2,938,575	-2,821,186
38	35.2	Manufactured gas.....	9,205	11,467	12,931	12,320	12,469	12,287	11,557	11,292
39	E	Water supply; sewerage, waste management and remediation services.....	93,346	84,079	92,149	84,868	79,744	84,118	77,519	77,007
40	36	Natural water; water treatment and supply services.....	57,290	50,441	58,192	53,131	49,124	53,544	49,040	48,227
41	37-39	Sewerage services; waste collection and materials recovery services.....	36,056	33,639	33,957	31,736	30,620	30,574	28,479	28,780
42	37	Sewerage services, sewerage sludge.....	30,282	26,371	30,260	28,306	27,117	28,293	26,201	25,926
43	38-39	Waste collection, treatment and disposal services.....	5,774	7,268	3,698	3,431	3,503	2,281	2,277	2,854
44	F	Constructions and construction works.....	20,186	20,861	21,836	20,208	21,579	22,255	20,352	21,386
45	41-42	Building and building construction works.....	9,802	9,413	8,285	7,447	7,912	6,650	5,777	6,040
46	43	Specialised construction works.....	10,384	11,449	13,551	12,761	13,667	15,605	14,575	15,346
47	G	Wholesale and retail trade services; repair services of motor vehicles.....	224,580	197,608	188,232	164,023	160,574	165,045	159,122	155,797
48	45	Wholesale and retail trade and repair services of motor vehicles.....	24,639	18,370	20,966	19,002	20,210	20,818	18,745	19,199
49	46	Wholesale trade services, except of motor vehicles and motorcycles.....	57,431	55,026	47,345	39,833	39,617	39,817	35,978	34,430
50	47	Retail trade services, except of motor vehicles and motorcycles.....	142,510	124,211	119,921	105,188	100,747	104,410	104,398	102,169
51	H	Transportation and storage services.....	147,335	143,669	123,368	115,776	106,039	101,645	98,788	94,346
52	49.1-2	Passenger rail transport services, freight rail transport services.....	83,999	83,407	41,968	41,370	36,418	36,541	35,054	32,693
53	49.3-5	Other passenger land transport services, transport service via pipeline.....	29,886	29,009	42,408	39,199	35,813	35,514	34,510	31,918
54	50	Water transport services.....	0	0	0	0	0	0	0	0
55	51	Air transport services.....	0	0	0	0	0	0	0	0
56	52	Warehousing and support services for transportation.....	29,146	28,168	36,018	32,942	30,971	26,560	26,355	26,596
57	53	Postal and courier services.....	4,304	3,085	2,974	2,264	2,837	3,030	2,869	3,139
58	I	Accommodation and food services.....	77,739	73,902	81,712	73,509	68,640	68,493	68,323	70,119
59	J	Information and communication services.....	61,973	60,311	68,867	60,265	61,430	58,984	51,864	50,837
60	K	Financial and insurance services.....	28,872	23,263	20,722	19,180	19,125	18,820	17,609	17,120
61	L	Real estate services.....	41,236	32,857	37,410	33,960	34,346	34,280	33,322	34,843
62	M	Professional, scientific and technical services.....	38,258	39,404	47,084	42,616	42,553	47,015	44,221	46,133
63	N	Administrative and support services.....	7,033	6,669	10,494	9,956	7,672	8,165	9,596	10,050
64	O	Public administration and defence services.....	71,553	56,833	65,446	59,907	55,171	64,259	59,687	59,013
65	P	Education services.....	36,904	30,006	38,293	33,481	32,117	32,655	30,918	31,612
66	Q	Human health and social work services.....	72,478	73,776	85,263	79,837	75,309	82,744	78,173	80,459
67	R-T	Other services.....	61,561	59,977	60,755	51,278	46,322	48,143	43,282	42,917
68		All homogeneous branches.....	917,536	952,245	934,568	852,052	788,535	790,407	752,054	715,851
69		Private households (residents consumption).....	0	0	1	0	0	0	-4	1

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

Table 3.3.4: Consumption of primary energy*

- transformation losses and internal consumption of energy of electrical power stations and heat plants allocated within the energy sector
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No.	CPA ¹	Homogeneous branches	2000	2005	2010	2011	2012	2013	2014	2015
1	A	Products of agriculture, forestry and fishing.....	170,203	165,505	182,436	180,958	203,101	210,776	200,425	211,843
2	01	Products of agriculture, hunting and related services.....	162,211	157,415	174,226	172,611	197,001	203,445	193,354	204,216
3	02	Products of forestry, logging and related services.....	5,826	6,336	6,526	6,743	5,019	5,661	5,539	5,970
4	03	Fish and other fishing products; aquaculture products.....	2,166	1,754	1,684	1,605	1,082	1,671	1,532	1,657
5	B	Mining and quarrying.....	82,655	75,350	66,524	68,426	58,067	58,935	57,524	62,287
6	05	Coal and lignite.....	36,338	37,013	34,999	39,233	30,736	29,368	29,112	33,185
7	06	Crude petroleum and natural gas.....	23,672	17,084	11,290	11,503	11,173	11,780	11,647	11,660
8	07-09	Metal ores, other mining and quarrying products.....	22,645	21,254	20,234	17,689	16,158	17,787	16,764	17,442
9	C	Manufactured products.....	3,812,932	4,001,681	3,903,888	3,943,824	3,879,138	3,894,031	3,868,707	3,919,520
10	10-12	Food products, beverages, tobacco products.....	222,120	224,156	227,891	223,018	226,605	225,562	227,976	223,420
11	13-15	Textiles, wearing apparel, leather and related products.....	50,046	38,847	26,708	25,290	23,208	23,066	22,179	21,709
12	16	Wood and products of wood and cork, except furniture.....	43,877	63,623	84,417	88,629	65,914	81,766	89,180	87,722
13	17	Paper and paper products.....	180,823	305,259	249,007	239,353	229,821	242,954	235,574	233,804
14	18	Printing and recording services.....	28,078	32,847	23,608	22,194	25,910	22,636	21,221	25,212
15	19	Coke and refined petroleum products.....	375,247	442,821	357,640	347,370	349,891	377,064	360,027	431,294
16	19.1	Coke oven products.....	53,651	50,253	69,734	42,889	33,124	62,271	59,445	55,621
17	19.2	Refined petroleum products.....	321,596	392,568	287,906	304,480	316,767	314,792	300,583	375,673
18	20	Chemicals and chemical products.....	1,313,715	1,400,645	1,441,678	1,450,008	1,413,450	1,399,237	1,416,748	1,393,102
19	21	Basic pharmaceutical products and pharmaceutical preparations.....	52,956	27,239	20,693	24,660	26,820	26,011	23,889	21,662
20	22	Rubber and plastic products.....	81,506	88,464	98,252	91,863	91,476	91,913	91,208	92,469
21	23	Other non-metallic mineral products.....	311,557	254,537	279,771	292,165	279,995	277,640	279,293	278,156
22	23.1	Glass and glass products.....	100,266	88,023	87,740	89,924	83,110	84,024	85,872	85,813
23	23.2-9	Refractory products, cut, shaped and finished stone.....	211,291	166,514	192,031	202,241	196,885	193,616	193,421	192,343
24	24	Basic metals.....	748,266	683,745	653,307	691,208	691,014	661,934	655,450	682,113
25	24.1-3	Basic iron and steel and ferro-alloys, other products of steel.....	612,254	544,654	528,382	567,286	571,656	547,965	539,572	552,369
26	24.4	Basic precious and other non-ferrous metals.....	98,244	92,587	77,798	73,903	70,784	71,240	77,883	84,558
27	24.5	Casting services of metal.....	37,767	46,504	47,127	50,019	48,574	42,729	37,994	45,186
28	25	Fabricated metal products, except machinery and equipment.....	93,911	104,837	107,496	110,905	108,339	113,761	111,487	103,053
29	26	Computer, electronic and optical products.....	34,089	30,034	27,120	31,859	32,435	32,036	29,885	28,815
30	27	Electrical equipment.....	35,209	33,508	33,315	35,941	34,896	34,480	39,915	30,355
31	28	Machinery and equipment n.e.c.....	84,986	89,764	91,098	88,487	91,036	88,549	84,057	81,445
32	29	Motor vehicles, trailers and semi-trailers.....	112,231	130,477	122,414	121,483	126,549	130,086	122,084	121,823
33	30	Other transport equipment.....	16,227	20,706	15,898	14,232	14,802	15,666	14,624	14,819
34	31-32	Furniture, other manufacture goods.....	16,928	19,145	28,162	29,498	29,832	33,537	26,077	30,270
35	33	Repair and installation services of machinery and equipment.....	11,160	11,029	15,412	15,659	17,147	16,131	17,834	18,278
36	D (35)	Electricity, gas, steam and air conditioning.....	3,469,841	3,516,836	3,467,760	3,235,675	3,026,224	3,044,187	2,978,679	2,862,735
37	35.1/3	Electricity, transmission and distribution services, steam.....	3,445,158	3,490,112	3,439,177	3,207,634	2,994,818	3,016,545	2,948,792	2,831,883
38	35.2	Manufactured gas.....	24,683	26,725	28,584	28,041	31,406	27,642	29,887	30,852
39	E	Water supply; sewerage, waste management and remediation services.....	121,933	111,965	122,644	120,939	117,363	134,213	123,321	125,005
40	36	Natural water; water treatment and supply services.....	28,814	27,805	33,425	32,463	32,581	35,161	32,457	33,378
41	37-39	Sewerage services; waste collection and materials recovery services.....	93,119	84,160	89,219	88,476	84,782	99,053	90,865	91,627
42	37	Sewerage services, sewerage sludge.....	23,889	20,303	23,003	22,622	23,142	23,839	22,768	23,396
43	38-39	Waste collection, treatment and disposal services.....	69,230	63,857	66,217	65,855	61,640	75,214	68,097	68,232
44	F	Constructions and construction works.....	295,701	231,267	225,499	240,736	213,656	214,575	217,294	224,955
45	41-42	Building and building construction works.....	211,057	160,182	145,560	157,365	131,029	126,631	132,074	136,446
46	43	Specialised construction works.....	84,644	71,085	79,939	83,372	82,627	87,944	85,220	88,509
47	G	Wholesale and retail trade services; repair services of motor vehicles.....	479,550	435,383	414,526	389,682	390,055	406,782	398,208	403,871
48	45	Wholesale and retail trade and repair services of motor vehicles.....	82,181	66,318	69,713	61,927	63,960	67,464	65,492	65,950
49	46	Wholesale trade services, except of motor vehicles and motorcycles.....	143,435	134,256	119,043	116,957	117,055	121,181	120,656	123,681
50	47	Retail trade services, except of motor vehicles and motorcycles.....	253,934	234,810	225,770	210,798	209,040	218,137	212,059	214,240
51	H	Transportation and storage services.....	878,210	1,172,659	1,224,419	1,168,187	1,220,847	1,228,087	1,196,798	1,230,078
52	49.1-2	Passenger rail transport services, freight rail transport services.....	77,529	70,890	33,572	34,407	32,839	33,203	31,847	31,615
53	49.3-5	Other passenger land transport services, transport service via pipeline.....	160,103	212,794	263,629	264,948	258,858	257,218	255,049	260,018
54	50	Water transport services.....	61,087	289,396	347,584	297,632	340,234	337,176	319,906	348,719
55	51	Air transport services.....	379,082	396,813	383,562	383,972	406,527	404,745	388,428	380,734
56	52	Warehousing and support services for transportation.....	150,210	152,949	147,144	144,652	140,943	147,814	147,389	152,078
57	53	Postal and courier services.....	50,199	49,818	48,928	42,577	41,446	47,931	54,178	56,914
58	I	Accommodation and food services.....	109,956	120,252	111,053	103,485	101,600	104,541	95,973	98,519
59	J	Information and communication services.....	97,190	103,092	90,341	89,408	90,772	91,206	82,988	85,712
60	K	Financial and insurance services.....	49,724	48,487	45,367	40,014	40,562	43,913	39,256	39,623
61	L	Real estate services.....	32,151	34,947	37,220	35,624	37,637	37,713	36,516	39,421
62	M	Professional, scientific and technical services.....	153,658	167,166	188,030	176,840	177,899	186,410	181,827	188,953
63	N	Administrative and support services.....	18,587	22,369	24,062	23,464	21,077	22,503	26,972	29,392
64	O	Public administration and defence services.....	168,087	158,613	162,681	144,868	137,324	147,977	139,539	147,915
65	P	Education services.....	110,101	129,823	121,567	101,659	89,726	98,105	85,694	88,716
66	Q	Human health and social work services.....	146,706	175,614	182,343	163,148	158,463	169,831	166,092	178,359
67	R-T	Other services.....	189,388	162,647	145,539	125,496	121,733	125,135	123,881	126,963
68		All homogeneous branches.....	10,386,575	10,833,656	10,715,900	10,352,432	10,085,248	10,218,920	10,019,694	10,063,869
69		Private households (residents consumption).....	3,903,781	3,947,680	4,015,811	3,699,601	3,775,485	3,914,683	3,542,593	3,643,254
70		All homogeneous branches and private households (residents concept).....	14,290,356	14,781,337	14,731,711	14,052,033	13,860,733	14,133,603	13,562,287	13,707,124
71		Balance of bunkering 2.....	-112,792	-498,079	-567,011	-537,017	-571,841	-539,101	-511,486	-534,424
72		Statistical discrepancies 3.....	52,406	99,327	-115,310	-78,648	9,000	75,773	-26,519	-71,911
73		Losses due to flaring and distributions 4.....	170,832	175,774	151,931	148,031	149,167	151,334	155,302	160,722
74		Primary domestic energy consumption.....	14,400,802	14,558,358	14,201,321	13,584,399	13,447,057	13,821,609	13,179,584	13,261,510

* Witout allocation of transformation losses to final users.

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

2 Ship bunkering, bunkering of airlines and motor trucks of residents abroad minus bunkering of non-residents on the territory.

3 Difference between total supply and total use of energy.

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

Table 3.3.5: Intensity of primary energy consumption - transformation losses not allocated*
 Energy consumption per gross value added (price-adjusted) (2005 = 100)

No.	CPA ¹	Homogeneous branches	2000	2005	2010	2011	2012	2013	2014
1	A	Products of agriculture, forestry and fishing.....	77.1	100	109.1	96.1	112.0	94.2	.
2	B	Mining and quarrying.....	85.8	100	78.4	76.8	69.4	74.7	77.8
3	C	Manufactured products.....	100.3	100	89.9	84.2	84.2	85.0	80.1
4	D (35)	Electricity, gas, steam and air conditioning.....	113.2	100	101.6	98.8	84.0	83.7	84.4
5	E	Water supply; sewerage, waste management and remediation services.....	120.1	100	102.3	95.6	91.9	106.0	93.1
6	F	Constructions and construction works.....	101.3	100	81.3	82.2	71.4	72.3	71.5
7	G	Wholesale and retail trade services; repair services of motor vehicles.....	118.4	100	95.3	83.1	87.3	92.4	85.6
8	H	Transportation and storage services.....	83.3	100	95.3	91.1	91.1	88.0	89.0
9	I	Accommodation and food services.....	88.3	100	89.9	79.0	75.2	80.4	70.3
10	J	Information and communication services.....	99.9	100	83.9	76.6	76.3	75.7	67.6
11	K	Financial and insurance services.....	126.9	100	101.3	96.9	95.7	100.8	91.3
12	L	Real estate services.....	98.0	100	97.2	89.0	96.8	95.8	94.8
13	M	Professional, scientific and technical services.....	92.2	100	109.8	100.7	96.8	100.6	98.1
14	N	Administrative and support services.....	92.7	100	97.5	91.2	79.7	78.4	88.1
15	O	Public administration and defence services.....	105.9	100	95.4	84.5	79.3	84.8	79.5
16	P	Education services.....	88.9	100	87.0	70.5	61.3	66.2	56.8
17	Q	Human health and social work services.....	92.5	100	91.5	79.6	74.6	78.3	74.3
18	R-T	Other services.....	122.2	100	86.5	73.3	71.5	72.8	71.6
19		Total.....	100.5	100	93.0	86.2	83.7	83.9	80.7

* 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.

Figures for value added at current prices and price-adjusted figures are shown in part 1, chapter 2, tables 2.1 to 2.3.

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

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

No.	Usages	Unit	2000	2005	2010	2011	2012	2013	2014	2015
			mineral oil							
1	Room heating.....	petajoules	770	570	452	417	371	459	403	406
2	Hot water 1.....	petajoules	68	56	55	55	62	57	60	59
3	Other process heat 2.....	petajoules	0	0	0	0	0	0	0	0
4	Mechanical Energy 3.....	petajoules	2	3	3	4	4	4	4	4
5	Lighting.....	petajoules	0	0	0	0	0	0	0	0
6	Total.....	petajoules	841	629	510	476	437	520	467	469
			natural gas							
7	Room heating.....	petajoules	933	840	760	761	759	762	731	755
8	Hot water 1.....	petajoules	127	145	160	164	174	178	160	164
9	Other process heat 2.....	petajoules	10	7	3	3	4	4	4	4
10	Total.....	petajoules	1,069	992	923	929	936	944	895	922
			electricity							
11	Room heating.....	petajoules	79	69	42	44	36	31	35	34
12	Hot water 1.....	petajoules	61	62	63	62	64	66	57	55
13	Other process heat 2.....	petajoules	113	132	140	137	141	138	135	134
14	Mechanical Energy 3.....	petajoules	183	199	212	207	206	211	205	204
15	Lighting.....	petajoules	42	45	46	45	46	40	39	39
16	Total.....	petajoules	477	507	504	495	493	487	471	465
			remote heating							
17	Room heating.....	petajoules	131	138	151	163	155	161	159	164
18	Hot water 1.....	petajoules	12	12	15	14	15	14	14	14
19	Total.....	petajoules	143	151	166	177	170	175	173	178
			coal							
20	Room heating.....	petajoules	49	29	43	59	30	26	27	30
21	Hot water 1.....	petajoules	4	2	3	3	1	1	1	0
22	Total.....	petajoules	53	32	47	63	31	27	27	30
			other							
23	Room heating.....	petajoules	168	178	258	283	262	279	250	263
24	Hot water 1.....	petajoules	6	8	10	10	11	14	16	19
25	Other process heat 2.....	petajoules	6	5	7	6	7	9	11	13
26	Total.....	petajoules	180	192	276	299	281	302	276	295
			total							
29	Room heating.....	petajoules	2,129	1,824	1,707	1,726	1,613	1,719	1,603	1,651
30	Hot water 1.....	petajoules	278	286	306	309	327	330	309	310
31	Other process heat 2.....	petajoules	129	145	150	147	152	152	149	151
32	Mechanical Energy 3.....	petajoules	186	202	215	211	210	215	209	208
33	Lighting.....	petajoules	42	45	46	45	46	40	39	39
34	Total.....	petajoules	2,763	2,501	2,425	2,438	2,348	2,456	2,310	2,359
			percentage of total							
35	Room heating.....	%	77.0	72.9	70.4	70.8	68.7	70.0	69.4	70.0
36	Hot water 1.....	%	10.1	11.4	12.6	12.7	13.9	13.5	13.4	13.2
37	Other process heat 2.....	%	4.7	5.8	6.2	6.0	6.5	6.2	6.5	6.4
38	Mechanical Energy 3.....	%	6.7	8.1	8.9	8.7	9.0	8.7	9.1	8.8
39	Lighting.....	%	1.5	1.8	1.9	1.9	2.0	1.6	1.7	1.6
40	Total.....	%	100	100	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.

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

No.	Energy sources and usages	Unit	2000	2005	2010	2011	2012	2013	2014	2015
By energy sources										
1	Mineral oil.....	petajoules	841	629	510	476	437	520	467	469
2	Gas.....	petajoules	1,069	992	923	929	936	944	895	922
3	Electricity.....	petajoules	477	507	504	495	493	487	471	465
4	Remote heating.....	petajoules	143	151	166	177	170	175	173	178
5	Coal.....	petajoules	53	32	47	63	31	27	27	30
6	Other.....	petajoules	180	192	276	299	281	302	276	295
7	Total.....	petajoules	2,763	2,501	2,425	2,438	2,348	2,456	2,310	2,359
By use areas										
8	Room heating.....	petajoules	2,129	1,824	1,707	1,726	1,613	1,719	1,603	1,651
9	Hot water 1.....	petajoules	278	286	306	309	327	330	309	310
10	Other process heat 2.....	petajoules	129	145	150	147	152	152	149	151
11	Mechanical energy 3.....	petajoules	186	202	215	211	210	215	209	208
12	Lighting.....	petajoules	42	45	46	45	46	40	39	39
13	Total.....	petajoules	2,763	2,501	2,425	2,438	2,348	2,456	2,310	2,359
14	memorandum item: not-temperature adjusted 4.....	petajoules	2,520	2,534	2,636	2,303	2,397	2,526	2,158	2,272
index (base year = 100)										
By energy sources										
15	Mineral oil.....	2005=100	134	100	81	76	69	83	74	75
16	Gas.....	2005=100	108	100	93	94	94	95	90	93
17	Electricity.....	2005=100	94	100	99	98	97	96	93	92
18	Remote heating.....	2005=100	95	100	110	118	113	116	115	118
19	Coal.....	2005=100	166	100	148	197	98	85	86	95
20	Other.....	2005=100	94	100	144	156	147	158	144	154
21	Total.....	2005=100	110	100	97	97	94	98	92	94
By use areas										
22	Room heating.....	2005=100	117	100	94	95	88	94	88	91
23	Hot water 1.....	2005=100	97	100	107	108	114	116	108	109
24	Other process heat 2.....	2005=100	89	100	104	101	105	105	103	104
25	Mechanical energy 3.....	2005=100	92	100	106	105	104	106	104	103
26	Lighting.....	2005=100	93	100	104	101	102	90	87	86
27	Total.....	2005=100	110	100	97	97	94	98	92	94
28	memorandum item: not-temperature adjusted 4.....	2005=100	99	100	104	91	95	100	85	90
percentage of total										
By energy sources										
29	Mineral oil.....	%	30.4	25.1	21.0	19.5	18.6	21.2	20.2	19.9
30	Gas.....	%	38.7	39.7	38.1	38.1	39.9	38.4	38.7	39.1
31	Electricity.....	%	17.3	20.3	20.8	20.3	21.0	19.8	20.4	19.7
32	Remote heating.....	%	5.2	6.0	6.8	7.3	7.2	7.1	7.5	7.6
33	Coal.....	%	1.9	1.3	1.9	2.6	1.3	1.1	1.2	1.3
34	Other.....	%	6.5	7.7	11.4	12.3	12.0	12.3	12.0	12.5
35	Total.....	%	100	100	100	100	100	100	100	100
By use areas										
36	Room heating.....	%	77.0	72.9	70.4	70.8	68.7	70.0	69.4	70.0
37	Hot water 1.....	%	10.1	11.4	12.6	12.7	13.9	13.5	13.4	13.2
38	Other process heat 2.....	%	4.7	5.8	6.2	6.0	6.5	6.2	6.5	6.4
39	Mechanical energy 3.....	%	6.7	8.1	8.9	8.7	9.0	8.7	9.1	8.8
40	Lighting.....	%	1.5	1.8	1.9	1.9	2.0	1.6	1.7	1.6
41	Total.....	%	100	100	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 Not 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	2014	2015
By energy sources										
1	Mineral oil.....	TWh	233	175	142	132	121	145	130	130
2	Gas.....	TWh	297	276	256	258	260	262	249	256
3	Electricity.....	TWh	132	141	140	138	137	135	131	129
4	Remote heating.....	TWh	40	42	46	49	47	49	48	50
5	Coal.....	TWh	15	9	13	17	9	7	8	8
6	Other.....	TWh	50	53	77	83	78	84	77	82
7	Total.....	TWh	768	695	674	677	652	682	642	655
By use areas										
8	Room heating.....	TWh	591	507	474	480	448	477	445	459
9	Hot water 1.....	TWh	77	79	85	86	91	92	86	86
10	Other process heat 2.....	TWh	36	40	42	41	42	42	41	42
11	Mechanical energy 3.....	TWh	52	56	60	59	58	60	58	58
12	Lighting.....	TWh	12	12	13	13	13	11	11	11
13	Total.....	TWh	768	695	674	677	652	682	642	655
14	memorandum item: not-temperature adjusted 4.....	TWh	700	704	732	640	666	702	599	631
index (base year = 100)										
By energy sources										
15	Mineral oil.....	2005=100	134	100	81	76	69	83	74	75
16	Gas.....	2005=100	108	100	93	94	94	95	90	93
17	Electricity.....	2005=100	94	100	99	98	97	96	93	92
18	Remote heating.....	2005=100	95	100	110	118	113	116	115	118
19	Coal.....	2005=100	166	100	148	197	98	85	86	95
20	Other.....	2005=100	94	100	144	156	147	158	144	154
21	Total.....	2005=100	110	100	97	97	94	98	92	94
By use areas										
22	Room heating.....	2005=100	117	100	94	95	88	94	88	91
23	Hot water 1.....	2005=100	97	100	107	108	114	116	108	109
24	Other process heat 2.....	2005=100	89	100	104	101	105	105	103	104
25	Mechanical energy 3.....	2005=100	92	100	106	105	104	106	104	103
26	Lighting.....	2005=100	93	100	104	101	102	90	87	86
27	Total.....	2005=100	110	100	97	97	94	98	92	94
28	memorandum item: not-temperature adjusted 4.....	2005=100	99	100	104	91	95	100	85	90
percentage of total										
By energy sources										
29	Mineral oil.....	%	30.4	25.1	21.0	19.5	18.6	21.2	20.2	19.9
30	Gas.....	%	38.7	39.7	38.1	38.1	39.9	38.4	38.7	39.1
31	Electricity.....	%	17.3	20.3	20.8	20.3	21.0	19.8	20.4	19.7
32	Remote heating.....	%	5.2	6.0	6.8	7.3	7.2	7.1	7.5	7.6
33	Coal.....	%	1.9	1.3	1.9	2.6	1.3	1.1	1.2	1.3
34	Other.....	%	6.5	7.7	11.4	12.3	12.0	12.3	12.0	12.5
35	Total.....	%	100	100	100	100	100	100	100	100
By use areas										
36	Room heating.....	%	77.0	72.9	70.4	70.8	68.7	70.0	69.4	70.0
37	Hot water 1.....	%	10.1	11.4	12.6	12.7	13.9	13.5	13.4	13.2
38	Other process heat 2.....	%	4.7	5.8	6.2	6.0	6.5	6.2	6.5	6.4
39	Mechanical energy 3.....	%	6.7	8.1	8.9	8.7	9.0	8.7	9.1	8.8
40	Lighting.....	%	1.5	1.8	1.9	1.9	2.0	1.6	1.7	1.6
41	Total.....	%	100	100	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 Particularly for cooking, including hot water for dishwashers and washing machines.

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

4 Not including energy consumption for commercial surfaces of households of self-employed persons.

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

No.	Energy sources and usages	Unit	2000	2005	2010	2011	2012	2013	2014	2015
By energy sources										
1	Mineral oil.....	kWh	6,192	4,489	3,517	3,344	3,056	3,620	3,224	3,194
2	Gas.....	kWh	7,877	7,083	6,361	6,529	6,550	6,569	6,180	6,284
3	Electricity.....	kWh	3,513	3,621	3,470	3,481	3,449	3,390	3,255	3,168
4	Remote heating.....	kWh	1,056	1,075	1,141	1,244	1,189	1,216	1,196	1,215
5	Coal.....	kWh	389	227	323	440	216	187	188	205
6	Other.....	kWh	1,328	1,368	1,901	2,103	1,963	2,102	1,909	2,008
7	Total.....	kWh	20,356	17,863	16,715	17,142	16,424	17,084	15,953	16,073
By use areas										
8	Room heating.....	kWh	15,683	13,028	11,767	12,137	11,284	11,956	11,073	11,249
9	Hot water 1.....	kWh	2,047	2,040	2,108	2,171	2,287	2,298	2,132	2,114
10	Other process heat 2.....	kWh	950	1,033	1,036	1,032	1,062	1,056	1,032	1,028
11	Mechanical energy 3.....	kWh	1,367	1,442	1,482	1,484	1,470	1,493	1,446	1,418
12	Lighting.....	kWh	308	320	320	318	321	280	270	264
13	Total.....	kWh	20,356	17,863	16,715	17,142	16,424	17,084	15,953	16,073
14	memorandum item: not-temperature adjusted 4...	kWh	18,560	18,095	18,167	16,195	16,772	17,571	14,904	15,476
15	number of households (n.a.) 5.....	1,000	37,711	38,897	40,301	39,510	39,707	39,933	40,222	40,773
percentage of total										
By energy sources										
16	Mineral oil.....	%	30.4	25.1	21.0	19.5	18.6	21.2	20.2	19.9
17	Gas.....	%	38.7	39.7	38.1	38.1	39.9	38.4	38.7	39.1
18	Electricity.....	%	17.3	20.3	20.8	20.3	21.0	19.8	20.4	19.7
19	Remote heating.....	%	5.2	6.0	6.8	7.3	7.2	7.1	7.5	7.6
20	Coal.....	%	1.9	1.3	1.9	2.6	1.3	1.1	1.2	1.3
21	Other.....	%	6.5	7.7	11.4	12.3	12.0	12.3	12.0	12.5
22	Total.....	%	100	100	100	100	100	100	100	100
By use areas										
23	Room heating.....	%	77.0	72.9	70.4	70.8	68.7	70.0	69.4	70.0
24	Hot water 1.....	%	10.1	11.4	12.6	12.7	13.9	13.5	13.4	13.2
25	Other process heat 2.....	%	4.7	5.8	6.2	6.0	6.5	6.2	6.5	6.4
26	Mechanical energy 3.....	%	6.7	8.1	8.9	8.7	9.0	8.7	9.1	8.8
27	Lighting.....	%	1.5	1.8	1.9	1.9	2.0	1.6	1.7	1.6
28	Total.....	%	100	100	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 Not including energy consumption for commercial surfaces of households of self-employed 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 CO₂ emissions of private households - direct and indirect *

No.	Usages	2000	2005	2010	2011	2012	2013	2014	2015
		1,000 tonnes							
		direct							
1	Room heating (temperature adjusted).....	131,127	110,270	106,624	108,068	99,611	107,725	98,818	102,066
2	Hot water 1.....	13,171	13,306	14,376	14,585	15,601	15,718	15,144	15,450
3	Other process heat 2.....	1,199	944	887	817	927	1,174	1,310	1,561
4	Total heating.....	145,497	124,520	121,886	123,470	116,140	124,617	115,272	119,077
5	Mechanical energy 3.....	179	190	250	301	296	275	292	313
6	Lighting.....	0	0	0	0	0	0	0	0
7	Housing.....	145,676	124,710	122,136	123,771	116,435	124,893	115,564	119,390
8	Road traffic 4.....	100,167	102,505	98,813	99,893	98,535	100,069	100,538	101,349
9	Total.....	245,843	227,215	220,949	223,663	214,970	224,961	216,101	220,738
		indirect - CO₂ emissions from energy provision							
10	Room heating (temperature adjusted).....	30,643	26,382	24,392	28,723	26,220	26,333	26,212	26,711
11	Hot water 1.....	11,409	11,149	12,083	12,622	12,710	12,812	11,377	10,977
12	Other process heat 2.....	17,883	20,199	22,090	22,582	22,449	21,728	21,164	21,011
13	Total heating.....	59,935	57,730	58,565	63,927	61,378	60,874	58,753	58,698
14	Mechanical energy 3.....	29,007	30,421	31,107	31,977	30,780	29,999	29,020	28,626
15	Lighting.....	6,618	6,827	6,869	7,060	6,796	6,624	6,106	6,063
16	Housing.....	95,559	94,978	96,540	102,965	98,954	97,496	93,879	93,387
17	Road traffic 4.....	4,822	5,187	6,103	6,261	6,129	6,374	6,401	6,451
18	Total.....	100,381	100,165	102,643	109,226	105,083	103,869	100,280	99,838
		cumulated (= direct + indirect)							
19	Room heating (temperature adjusted).....	161,770	136,652	131,016	136,791	125,831	134,058	125,030	128,777
20	Hot water 1.....	24,580	24,456	26,459	27,207	28,311	28,531	26,520	26,427
21	Other process heat 2.....	19,082	21,142	22,976	23,399	23,376	22,902	22,474	22,572
22	Total heating.....	205,431	182,250	180,451	187,397	177,518	185,491	174,025	177,775
23	Mechanical energy 3.....	29,186	30,611	31,357	32,278	31,075	30,274	29,312	28,939
24	Lighting.....	6,618	6,827	6,869	7,060	6,796	6,624	6,106	6,063
25	Housing.....	241,235	219,688	218,676	226,735	215,389	222,389	209,442	212,777
26	Road traffic 4.....	104,990	107,692	104,916	106,154	104,664	106,442	106,939	107,800
27	Total.....	346,224	327,380	323,592	332,889	320,053	328,831	316,381	320,576
		percentage of total							
		direct							
28	Room heating (temperature adjusted).....	53.3	48.5	48.3	48.3	46.3	47.9	45.7	46.2
29	Hot water 1.....	5.4	5.9	6.5	6.5	7.3	7.0	7.0	7.0
30	Other process heat 2.....	0.5	0.4	0.4	0.4	0.4	0.5	0.6	0.7
31	Total heating.....	59.2	54.8	55.2	55.2	54.0	55.4	53.3	53.9
32	Mechanical energy 3.....	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
33	Lighting.....	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
34	Housing.....	59.3	54.9	55.3	55.3	54.2	55.5	53.5	54.1
35	Road traffic 4.....	40.7	45.1	44.7	44.7	45.8	44.5	46.5	45.9
36	Total.....	100	100	100	100	100	100	100	100
		indirect - CO₂ emissions from energy provision							
37	Room heating (temperature adjusted).....	30.5	26.3	23.8	26.3	25.0	25.4	26.1	26.8
38	Hot water 1.....	11.4	11.1	11.8	11.6	12.1	12.3	11.3	11.0
39	Other process heat 2.....	17.8	20.2	21.5	20.7	21.4	20.9	21.1	21.0
40	Total heating.....	59.7	57.6	57.1	58.5	58.4	58.6	58.6	58.8
41	Mechanical energy 3.....	28.9	30.4	30.3	29.3	29.3	28.9	28.9	28.7
42	Lighting.....	6.6	6.8	6.7	6.5	6.5	6.4	6.1	6.1
43	Housing.....	95.2	94.8	94.1	94.3	94.2	93.9	93.6	93.5
44	Road traffic 4.....	4.8	5.2	5.9	5.7	5.8	6.1	6.4	6.5
45	Total.....	100	100	100	100	100	100	100	100
		cumulated (= direct + indirect)							
46	Room heating (temperature adjusted).....	46.7	41.7	40.5	41.1	39.3	40.8	39.5	40.2
47	Hot water 1.....	7.1	7.5	8.2	8.2	8.8	8.7	8.4	8.2
48	Other process heat 2.....	5.5	6.5	7.1	7.0	7.3	7.0	7.1	7.0
49	Total heating.....	59.3	55.7	55.8	56.3	55.5	56.4	55.0	55.5
50	Mechanical energy 3.....	8.4	9.4	9.7	9.7	9.7	9.2	9.3	9.0
51	Lighting.....	1.9	2.1	2.1	2.1	2.1	2.0	1.9	1.9
52	Housing.....	69.7	67.1	67.6	68.1	67.3	67.6	66.2	66.4
53	Road traffic 4.....	30.3	32.9	32.4	31.9	32.7	32.4	33.8	33.6
54	Total.....	100	100	100	100	100	100	100	100

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

1 For example shower.

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

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

4 Road transport, from 2012 onwards excl. Biomethane, from 2013 onwards excl. electricity.

Table 3.3.6.6: Energy consumption for heating by household size*

No.	Characteristics	Unit	2000	2005	2010	2011	2012	2013	2014	2015
1	Total energy for heating.....	PJ	2,763	2,501	2,425	2,438	2,348	2,456	2,310	2,359
2	Total energy.....	GWh	767,691	694,868	673,669	677,336	652,198	682,251	641,717	655,383
3	Energy per household.....	kWh	20,357	17,864	16,716	17,143	16,425	17,085	15,954	16,074
4	One-person household.....	kWh	14,198	12,140	11,616	11,998	11,518	12,068	11,336	11,336
5	Two-person household.....	kWh	20,612	18,402	17,568	17,984	17,208	17,965	16,802	16,802
6	Three - and more person households.....	kWh	27,327	24,866	23,584	24,082	23,155	23,984	22,380	22,380
7	Households 1.....	1000	37,711	38,897	40,301	39,510	39,707	39,933	40,222	40,773
8	One-person household.....	%	35.4	37.0	39.8	40.2	40.2	40.5	40.8	41.4
9	Two-person household.....	%	33.6	34.2	34.2	34.2	34.4	34.4	34.4	34.2
10	Three - and more person households.....	%	31.0	28.8	26.0	25.6	25.3	25.1	24.8	24.4
11	Total.....	%	100	100	100	100	100	100	100	100
12	Persons living in households.....	1000	81,394	81,678	80,900	79,421	79,586	79,766	80,069	80,635
13	Energy consumption per capita.....	kWh	9,432	8,507	8,327	8,528	8,195	8,553	8,015	8,128
			index (base year = 100)							
14	Total energy.....	2005 = 100	110.5	100	96.9	97.5	93.9	98.2	92.4	94.3
15	Energy per household.....	2005 = 100	114.0	100	93.6	96.0	91.9	95.6	89.3	90.0
16	One-person household.....	2005 = 100	116.9	100	95.7	98.8	94.9	99.4	93.4	93.4
17	Two-person household.....	2005 = 100	112.0	100	95.5	97.7	93.5	97.6	91.3	91.3
18	Three - and more person households.....	2005 = 100	109.9	100	94.8	96.8	93.1	96.5	90.0	90.0
19	Households 1.....	2005 = 100	96.9	100	103.6	101.6	102.1	102.7	103.4	104.8
20	One-person household.....	2005 = 100	95.8	100	107.6	108.6	108.8	109.5	110.3	111.9
21	Two-person household.....	2005 = 100	98.0	100	99.8	99.9	100.5	100.5	100.4	99.9
22	Three - and more person households.....	2005 = 100	107.7	100	90.4	89.1	88.1	87.1	86.2	84.8
23	Persons living in households.....	2005 = 100	99.7	100	99.0	97.2	97.4	97.7	98.0	98.7

* Temperature adjusted energy consumption for heating.

1 Microcensus, from 2011 onwards based on census 2011.

2 Figures from the National Accounts on basis of prior censuses, from 2011 onwards based on census 2011.

Table 3.3.6.7: Energy consumption for heating by household size*

No.	Characteristics	Unit	2000	2005	2010	2011	2012	2013	2014	2015
1	Total energy for heating.....	PJ	2 129	1 824	1 707	1 726	1 613	1 719	1 603	1 651
2	Total energy.....	GWh	591 478	506 777	474 273	479 584	448 071	477 473	445 427	458 698
3	Energy per household.....	kWh	15 685	13 029	11 768	12 138	11 284	11 957	11 074	11 250
4	One-person household.....	kWh	11 753	9 668	8 922	9 198	8 641	9 189	8 564	8 761
5	Two-person household.....	kWh	16 200	13 431	12 601	12 972	12 051	12 802	11 871	12 088
6	Three - and more person households.....	kWh	19 622	16 870	15 028	15 632	14 442	15 269	14 100	14 298
7	Households 1.....	1000	37 711	38 897	40 301	39 510	39 707	39 933	40 222	40 773
8	One-person household.....	%	35.4	37.0	39.8	40.2	40.2	40.5	40.8	41.4
9	Two-person household.....	%	33.6	34.2	34.2	34.2	34.4	34.4	34.4	34.2
10	Three - and more person households.....	%	31.0	28.8	26.0	25.6	25.3	25.1	24.8	24.4
11	Total.....	%	100	100	100	100	100	100	100	100
12	Living space.....	Mill. m ²	3 234	3 416	3 530	3 551	3 571	3 592	3 615	3 640
13	Energy per living space.....	kWh/m ²	182.9	148.4	134.3	135.1	125.5	132.9	123.2	126.0
			index (base year = 100)							
14	Total energy.....	2005 = 100	116.7	100	93.6	94.6	88.4	94.2	87.9	90.5
15	Energy per household.....	2005 = 100	120.4	100	90.3	93.2	86.6	91.8	85.0	86.3
16	One-person household.....	2005 = 100	121.6	100	92.3	95.1	89.4	95.0	88.6	90.6
17	Two-person household.....	2005 = 100	120.6	100	93.8	96.6	89.7	95.3	88.4	90.0
18	Three - and more person households.....	2005 = 100	116.3	100	89.1	92.7	85.6	90.5	83.6	84.8
19	Households 1.....	2005 = 100	96.9	100	103.6	101.6	102.1	102.7	103.4	104.8
20	One-person household.....	2005 = 100	95.8	100	107.6	108.6	108.8	109.5	110.3	111.9
21	Two-person household.....	2005 = 100	98.0	100	99.8	99.9	100.5	100.5	100.4	99.9
22	Three - and more person households.....	2005 = 100	107.7	100	90.4	89.1	88.1	87.1	86.2	84.8
23	Living space.....	2005 = 100	94.7	100	103.4	103.9	104.5	105.2	105.8	106.6

* Temperature adjusted energy consumption for heating.

1 Microcensus, from 2011 onwards based on census 2011.

Table 3.3.6.8: Energy consumption for heating by type of buildings and by energy sources*

No.	Type of buildings	2006						
		Total heating systems ¹	Main heating systems	of which				
				Fuel oil ²	Gas ²	Remote heating ³	Solid Fuels ³	Electricity ³
Percentage of dwellings on total dwellings⁴								
1	One-family house.....	98.1	95.8	37.6	47.4	2.6	5.6	2.7
2	Two-family house.....	98.9	96.8	43.2	43.9	2.3	4.9	2.6
3	Multi-dwelling house.....	99.5	98.1	21.9	50.7	22.6	1.0	2.0
4	All buildings.....	99.0	97.2	30.3	48.5	13.1	3.0	2.3
Heated living space in 1,000 m²								
5	One-family house.....		1,343,622	526,686	664,042	36,189	78,633	38,072
6	Two-family house.....		632,207	281,819	286,880	14,786	31,903	16,820
7	Multi-dwelling house.....		1,365,357	304,608	705,392	313,850	14,248	27,258
8	All buildings.....	3,446,062	3,341,185	1,113,114	1,656,314	364,825	124,784	82,150
Energy consumption in terajoules⁵								
9	One-family house.....	800,976	701,430	263,826	355,567	15,066	39,236	27,735
10	Two-family house.....	360,485	324,357	138,868	151,938	6,093	15,748	11,710
11	Multi-dwelling house.....	664,220	618,443	132,928	345,146	120,923	6,549	12,897
12	All buildings.....	1,825,680	1,644,230	535,623	852,651	142,081	61,533	52,342
Energy consumption in kWh per m²								
13	One-family house.....		145	139	149	116	139	
14	Two-family house.....		143	137	147	114	137	
15	Multi-dwelling house.....		126	121	136	107	128	
16	All buildings.....	147	137	134	143	108	137	
Energy consumption change from 2006 to 2014 (2006 = 100)								
17	One-family house.....		100	100	100	100	100	
18	Two-family house.....		100	100	100	100	100	
19	Multi-dwelling house.....		100	100	100	100	100	
20	All buildings.....		100	100	100	100	100	
Percentage of energy consumption by type of houses on total buildings (%)								
21	One-family house.....	43.9	42.7	49.3	41.7	10.6	63.8	53.0
22	Two-family house.....	19.7	19.7	25.9	17.8	4.3	25.6	22.4
23	Multi-dwelling house.....	36.4	37.6	24.8	40.5	85.1	10.6	24.6
24	All buildings.....	100	100	100	100	100	100	100
Percentage of energy consumption on total energy consumption								
25	One-family house.....		100	37.6	50.7	2.1	5.6	4.0
26	Two-family house.....		100	42.8	46.8	1.9	4.9	3.6
27	Multi-dwelling house.....		100	21.5	55.8	19.6	1.1	2.1
28	All buildings.....		100	32.6	51.9	8.6	3.7	3.2

* Energy consumption temperature adjusted for heating.

1 Incl. Auxiliary heatings. 2014 double accounting possible.

2 2006: Central heating systems and individual stoves. 2014: Central heating systems and other heatings (double accounting possible).

3 Central heating systems.

4 Source: Mikrozensus 2014. Total in 2014 is higher than 100% due to double accounting.

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

Table 3.3.6.8: Energy consumption for heating by type of buildings and by energy sources*

No.	Type of buildings	2014						
		Total heating systems ¹	Main heating systems	of which				
				Fuel oil ²	Gas ²	Remote heating ³	Solid Fuels ³	Electricity ³
Percentage of dwellings on total dwellings⁴								
1	One-family house.....	125.4	92.9	31.2	50.7	2.5	7.0	1.4
2	Two-family house.....	118.4	93.8	38.7	44.7	1.9	7.2	1.3
3	Multi-dwelling house.....	100.6	94.8	17.9	50.9	22.6	1.7	1.6
4	All buildings.....	111.4	94.3	25.5	49.8	13.2	4.3	1.5
Heated living space in 1,000 m²								
5	One-family house.....		1,483,411	498,078	808,944	42,189	111,440	22,760
6	Two-family house.....		565,958	232,641	268,506	13,835	43,314	7,662
7	Multi-dwelling house.....		1,365,225	254,547	722,561	340,581	24,141	23,395
8	All buildings.....	3,615,085	3,414,594	985,267	1,800,010	396,605	178,895	53,818
Energy consumption in terajoules⁵								
9	One-family house.....	752,149	620,819	206,665	339,780	17,945	46,323	10,107
10	Two-family house.....	286,553	234,547	95,842	111,725	5,837	17,894	3,249
11	Multi-dwelling house.....	564,708	530,737	100,008	279,259	135,550	9,548	6,372
12	All buildings.....	1,603,410	1,386,103	402,515	730,764	159,331	73,765	19,728
Energy consumption in kWh per m²								
13	One-family house.....		116	115	117	118	115	X
14	Two-family house.....		115	114	116	117	115	
15	Multi-dwelling house.....		108	109	107	111	110	
16	All buildings.....	123	113	113	113	112	115	
Energy consumption change from 2006 to 2014 (2006 = 100)								
17	One-family house.....		80.2	82.8	78.4	102.2	83.3	X
18	Two-family house.....		80.8	83.6	78.6	102.4	83.7	
19	Multi-dwelling house.....		85.8	90.0	79.0	103.3	86.0	
20	All buildings.....		82.5	84.9	78.9	103.2	83.6	
Percentage of energy consumption by type of houses on total buildings (%)								
21	One-family house.....	46.9	44.8	51.3	46.5	11.3	62.8	51.2
22	Two-family house.....	17.9	16.9	23.8	15.3	3.7	24.3	16.5
23	Multi-dwelling house.....	35.2	38.3	24.8	38.2	85.1	12.9	32.3
24	All buildings.....	100	100	100	100	100	100	100
Percentage of energy consumption on total energy consumption								
25	One-family house.....		100	33.3	54.7	2.9	7.5	1.6
26	Two-family house.....		100	40.9	47.6	2.5	7.6	1.4
27	Multi-dwelling house.....		100	18.8	52.6	25.5	1.8	1.2
28	All buildings.....		100	29.0	52.7	11.5	5.3	1.4

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

No.	Specification	2008	2013	Change 2013 against 2008
		Energy terajoules		in percentage
1	Primary domestic energy.....	4,123,001	4,108,837	-0.3
2	Domestic production.....	12,856,038	11,993,956	-6.7
3	Transformation losses.....	-8,733,037	-7,885,119	-9.7
4	+ Imports (direct)	13,143,330	12,518,217	-4.8
5	= Supply of primary energy.....	17,266,332	16,627,054	-3.7
6	+ Imports indirect (Energiegehalt der Importgüter) 1.....	7,368,518	7,809,434	6.0
7	= Supply of energy.....	24,634,850	24,436,488	-0.8
8	= Final uses 2	24,634,850	24,436,488	-0.8
9	- Exports.....	11,016,420	11,005,823	-0.1
10	direct.....	2,248,838	2,294,335	2.0
11	Embodied energy of exports 1.....	8,767,582	8,711,488	-0.6
12	= Final domestic uses.....	13,618,430	13,430,664	-1.4
13	- Domestic final consumption of private households 2.....	9,578,182	9,714,321	1.4
14	direct.....	3,860,085	3,914,683	1.4
15	Embodied energy of consumer goods	5,718,097	5,799,638	1.4
16	= Other final uses 3.....	4,040,248	3,716,343	-8.0
		Macroeconomic reference data		
		EUR bn at current prices⁴		
17	Domestic production.....	4,853	5,370	10.6
18	+ Total imports 1.....	782	849	8.6
19	= Supply.....	5,636	6,220	10.4
20	- Intermediate consumption.....	2,570	2,762	7.5
21	= Final uses.....	3,065	3,457	12.8
22	- Total exports 1.....	974	1,060	8.9
23	= Final domestic uses.....	2,092	2,397	14.6
24	Domestic final consumption of private households	1,165	1,307	12.1
25	Consumption expenditure of non-profit institutions serving households.....	35	52	46.4
26	Government final consumption expenditure.....	447	536	19.9
27	Gross fixed capital formation.....	426	511	19.9
28	Changes in stocks, acquisitions less disposals of valuables.....	19	-7	-
		Energy intensity		
		energy consumption per macroeconomic		
		reference data at current prices		
		MJ per EUR 1,000		
29	= Final uses.....	8,037	7,068	
30	- Exports 1.....	9,006	8,221	
31	= Final domestic uses.....	6,510	5,602	
32	Domestic final consumption of private households 2.....	8,219	7,434	
33	memorandum item:			
	Imports 1	9,421	9,195	

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 2013

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
		terajoules			percentage of total		
1	Products of agriculture, hunting and related services.....	274,594	163,536	61,743	1.5	2.8	0.7
2	Products of forestry, logging and related services.....	6,020	5,360	1,140	0.0	0.1	0.0
3	Fish and other fishing products; aquaculture products.....	4,046	3,270	809	0.0	0.1	0.0
4	Hard coal.....	-2,688	232	63	-0.0	0.0	0.0
5	Lignite.....	74	0	65	0.0	0.0	0.0
6	Crude petroleum and natural gas.....	45,259	42,117	2	0.3	0.7	0.0
7	Metal ores; Other mining and quarrying products; Mining support services.....	465	482	6,489	0.0	0.0	0.1
8	Food products; Beverages; Tobacco products.....	1,175,917	807,181	342,107	6.5	13.9	3.9
9	Textiles; Wearing apparel; Leather and related products.....	325,496	261,751	78,022	1.8	4.5	0.9
10	Wood, products of wood and cork, except furniture.....	118,994	25,198	56,209	0.7	0.4	0.6
11	Paper and paper products.....	387,621	92,987	303,221	2.2	1.6	3.5
12	Printing and recording services.....	35,664	19,978	16,574	0.2	0.3	0.2
13	Coke oven products.....	21,056	171	2,375	0.1	0.0	0.0
14	Refined petroleum products.....	417,081	299,144	120,532	2.3	5.2	1.4
15	Basic chemicals.....	1,726,365	31,573	1,712,677	9.6	0.5	19.7
16	Other chemical products.....	854,764	189,714	610,952	4.7	3.3	7.0
17	Pharmaceutical products.....	259,940	70,765	192,735	1.4	1.2	2.2
18	Rubber and plastics products.....	565,655	89,216	436,676	3.1	1.5	5.0
19	Glass and glass products.....	99,194	31,370	73,767	0.6	0.5	0.8
20	Ceramic products; Cut, shaped and finished stone.....	121,640	31,790	76,722	0.7	0.5	0.9
21	Basic iron and steel; other products of the first processing of steel.....	616,025	0	596,360	3.4	0.0	6.8
22	Aluminium.....	174,843	0	166,046	1.0	0.0	1.9
23	Other non-ferrous metals.....	134,106	0	135,164	0.7	0.0	1.6
24	Casting services of metals.....	14,983	0	3,072	0.1	0.0	0.0
25	Fabricated metal products.....	408,894	37,522	217,547	2.3	0.6	2.5
26	Computer, electronic and optical products.....	335,237	68,833	195,067	1.9	1.2	2.2
27	Electrical equipment.....	284,930	39,317	196,550	1.6	0.7	2.3
28	Machinery and equipment n.e.c.....	897,753	6,461	624,853	5.0	0.1	7.2
29	Motor vehicles, trailers and semi-trailers.....	1,475,307	332,836	996,297	8.2	5.7	11.4
30	Other transport equipment.....	144,971	12,474	113,632	0.8	0.2	1.3
31	Furniture; Other manufactured goods.....	285,414	121,794	92,139	1.6	2.1	1.1
32	Repair and installation services of machinery and equipment.....	84,152	2,074	12,643	0.5	0.0	0.1
33	Electricity, transmission and distribution services.....	1,236,634	736,557	366,689	6.9	12.7	4.2
34	Manufactured gas; distribution services of gaseous fuels through mains.....	4,720	245	0	0.0	0.0	0.0
35	Steam supply services.....	37,799	30,348	27	0.2	0.5	0.0
36	Natural water; water treatment and supply services.....	63,351	63,221	0	0.4	1.1	0.0
37	Sewerage, Waste management and remediation services.....	91,668	60,712	40,875	0.5	1.0	0.5
38	Buildings and building construction works.....	403,774	0	0	2.2	0.0	0.0
39	Specialised construction works.....	397,821	21,013	153	2.2	0.4	0.0
40	Wholesale and retail trade and repair services of motor vehicles.....	117,487	66,142	31,930	0.7	1.1	0.4
41	Wholesale trade services, except of motor vehicles and motorcycles.....	312,266	124,814	157,145	1.7	2.2	1.8
42	Retail trade services, except of motor vehicles and motorcycles.....	395,158	366,849	0	2.2	6.3	0.0
43	Rail transport services.....	55,322	44,179	4,526	0.3	0.8	0.1
44	Other land transport services.....	147,424	109,577	18,594	0.8	1.9	0.2
45	Water transport services.....	469,505	27,934	314,426	2.6	0.5	3.6
46	Air transport services.....	467,099	338,106	83,288	2.6	5.8	1.0
47	Warehousing and support services for transportation.....	49,512	12,935	26,148	0.3	0.2	0.3
48	Postal and courier services.....	14,248	9,224	5,037	0.1	0.2	0.1
49	Accommodation and food serving services.....	326,420	294,140	31,238	1.8	5.1	0.4
50	Publishing services.....	50,594	27,327	23,756	0.3	0.5	0.3
51	Motion picture, video and television programme services.....	48,579	18,804	5,841	0.3	0.3	0.1
52	Telecommunications services.....	74,648	67,150	7,615	0.4	1.2	0.1
53	Information services.....	37,017	326	11,095	0.2	0.0	0.1
54	Financial and insurance services.....	108,955	81,878	26,809	0.6	1.4	0.3
55	Real estate services.....	174,777	172,564	544	1.0	3.0	0.0
56	Legal and accounting services, business services, architectural services.....	78,011	6,222	38,656	0.4	0.1	0.4
57	Scientific research and development services.....	217,614	0	35,813	1.2	0.0	0.4
58	Advertising and market research services; Security.....	69,154	32,198	30,278	0.4	0.6	0.3
59	Public administration and defence services;.....	331,054	10,601	7,306	1.8	0.2	0.1
60	Compulsory social security services.....	34,922	0	0	0.2	0.0	0.0
61	Education services.....	189,179	22,893	72	1.0	0.4	0.0
62	Human health services.....	340,515	83,921	68	1.9	1.4	0.0
63	Residential care services; Social work services.....	151,140	27,957	0	0.8	0.5	0.0
64	Arts, entertainment and recreation services.....	94,879	52,315	895	0.5	0.9	0.0
65	Services furnished by membership organisations.....	43,883	2,875	33	0.2	0.0	0.0
66	Repair services of computers and personal and household goods.....	99,455	99,462	381	0.6	1.7	0.0
67	Total final domestic uses.....	18,028,354	5,799,638	8,711,488	100	100	100

Table 3.4.3: Energy consumption of industries on the national territory and abroad at the production of goods for final use 2013

No.	Goods groups	Final use							
		Domestic	including:	Imports	Total	Domestic	including:	Imports	Total
			Exports ¹				Exports ¹ Domestic = 100		
		terajoules				percentage of total			
1	Products of agriculture, hunting and related services.....	203,351	69,192	205,726	409,077	49.7	34.0	50.3	100
2	Products of forestry, logging and related services.....	5,661	2,079	12,619	18,280	31.0	36.7	69.0	100
3	Fish and other fishing products; aquaculture products.....	1,671	672	4,151	5,821	28.7	40.2	71.3	100
4	Hard coal.....	6,090	3,206	58,257	64,347	9.5	52.6	90.5	100
5	Lignite.....	22,936	9,647	5,818	28,755	79.8	42.1	20.2	100
6	Crude petroleum and natural gas.....	11,785	3,497	307,924	319,709	3.7	29.7	96.3	100
7	Metal ores; Other mining and quarrying products; Mining support services.....	17,805	10,652	70,201	88,006	20.2	59.8	79.8	100
8	Food products; Beverages; Tobacco products.....	225,567	74,350	109,455	335,022	67.3	33.0	32.7	100
9	Textiles; Wearing apparel; Leather and related products.....	23,066	14,252	58,822	81,888	28.2	61.8	71.8	100
10	Wood, products of wood and cork, except furniture.....	81,765	34,546	44,984	126,749	64.5	42.3	35.5	100
11	Paper and paper products.....	242,932	170,584	241,773	484,705	50.1	70.2	49.9	100
12	Printing and recording services.....	22,636	8,401	8,144	30,779	73.5	37.1	26.5	100
13	Coke oven products.....	62,273	44,618	103,664	165,937	37.5	71.7	62.5	100
14	Refined petroleum products.....	317,615	134,786	318,672	636,287	49.9	42.4	50.1	100
15	Basic chemicals.....	1,267,176	1,164,491	2,168,419	3,435,595	36.9	91.9	63.1	100
16	Other chemical products.....	118,717	92,562	105,115	223,832	53.0	78.0	47.0	100
17	Pharmaceutical products.....	26,011	27,653	24,679	50,690	51.3	106.3	48.7	100
18	Rubber and plastics products.....	91,911	66,026	87,111	179,023	51.3	71.8	48.7	100
19	Glass and glass products.....	84,024	57,537	98,546	182,570	46.0	68.5	54.0	100
20	Ceramic products; Cut, shaped and finished stone.....	193,614	57,176	71,259	264,873	73.1	29.5	26.9	100
21	Basic iron and steel; other products of the first processing of steel.....	547,965	460,177	572,660	1,120,625	48.9	84.0	51.1	100
22	Aluminium.....	42,620	37,888	148,179	190,799	22.3	88.9	77.7	100
23	Other non-ferrous metals.....	28,031	25,656	115,552	143,584	19.5	91.5	80.5	100
24	Casting services of metals.....	42,729	28,729	18,337	61,066	70.0	67.2	30.0	100
25	Fabricated metal products.....	113,760	66,970	49,072	162,832	69.9	58.9	30.1	100
26	Computer, electronic and optical products.....	32,036	29,083	41,534	73,570	43.5	90.8	56.5	100
27	Electrical equipment.....	34,480	24,352	27,824	62,304	55.3	70.6	44.7	100
28	Machinery and equipment n.e.c.....	88,549	66,373	37,123	125,672	70.5	75.0	29.5	100
29	Motor vehicles, trailers and semi-trailers.....	130,086	97,037	53,987	184,073	70.7	74.6	29.3	100
30	Other transport equipment.....	15,666	13,209	7,474	23,139	67.7	84.3	32.3	100
31	Furniture; Other manufactured goods.....	33,537	15,591	17,635	51,172	65.5	46.5	34.5	100
32	Repair and installation services of machinery and equipment.....	16,132	6,619	9,884	26,016	62.0	41.0	38.0	100
33	Electricity, transmission and distribution services.....	2,960,640	1,245,662	1,432,857	4,393,497	67.4	42.1	32.6	100
34	Manufactured gas; distribution services of gaseous fuels through mains.....	42,080	19,943	24,299	66,380	63.4	47.4	36.6	100
35	Steam supply services.....	53,771	17,608	34,509	88,280	60.9	32.7	39.1	100
36	Natural water; water treatment and supply services.....	35,160	4,111	5,013	40,173	87.5	11.7	12.5	100
37	Sewerage, Waste management and remediation services.....	99,068	47,133	62,641	161,709	61.3	47.6	38.7	100
38	Buildings and building construction works.....	126,632	2,048	3,963	130,595	97.0	1.6	3.0	100
39	Specialised construction works.....	87,946	7,700	11,945	99,891	88.0	8.8	12.0	100
40	Wholesale and retail trade and repair services of motor vehicles.....	67,453	25,589	18,907	86,360	78.1	37.9	21.9	100
41	Wholesale trade services, except of motor vehicles and motorcycles.....	121,193	53,957	34,889	156,082	77.6	44.5	22.4	100
42	Retail trade services, except of motor vehicles and motorcycles.....	218,136	19,731	7,305	225,440	96.8	9.0	3.2	100
43	Rail transport services.....	33,090	9,223	11,950	45,039	73.5	27.9	26.5	100
44	Other land transport services.....	242,907	113,437	337,568	580,475	41.8	46.7	58.2	100
45	Water transport services.....	350,564	327,818	109,535	460,098	76.2	93.5	23.8	100
46	Air transport services.....	404,748	132,891	234,433	639,181	63.3	32.8	36.7	100
47	Warehousing and support services for transportation.....	147,948	65,037	87,129	235,077	62.9	44.0	37.1	100
48	Postal and courier services.....	47,932	15,457	11,882	59,813	80.1	32.2	19.9	100
49	Accommodation and food serving services.....	104,522	10,815	11,823	116,345	89.8	10.3	10.2	100
50	Publishing services.....	1,495	616	551	2,046	73.1	41.2	26.9	100
51	Motion picture, video and television programme services.....	25,956	4,259	5,619	31,576	82.2	16.4	17.8	100
52	Telecommunications services.....	27,898	5,098	6,373	34,271	81.4	18.3	18.6	100
53	Information services.....	35,859	12,218	25,741	61,600	58.2	34.1	41.8	100
54	Financial and insurance services.....	43,915	11,042	9,332	53,246	82.5	25.1	17.5	100
55	Real estate services.....	37,714	3,220	3,185	40,899	92.2	8.5	7.8	100
56	Legal and accounting services, business services, architectural services.....	108,988	46,908	58,206	167,194	65.2	43.0	34.8	100
57	Scientific research and development services.....	45,236	8,491	7,097	52,334	86.4	18.8	13.6	100
58	Advertising and market research services; Security.....	54,696	21,257	22,766	77,462	70.6	38.9	29.4	100
59	Public administration and defence services;.....	134,161	10,961	15,763	149,924	89.5	8.2	10.5	100
60	Compulsory social security services.....	13,831	81	81	13,912	99.4	0.6	0.6	100
61	Education services.....	98,124	1,828	1,434	99,558	98.6	1.9	1.4	100
62	Human health services.....	108,953	113	115	109,068	99.9	0.1	0.1	100
63	Residential care services; Social work services.....	60,917	0	0	60,917	100.0	0.0	0.0	100
64	Arts, entertainment and recreation services.....	53,661	2,183	3,200	56,861	94.4	4.1	5.6	100
65	Services furnished by membership organisations.....	23,193	1,533	1,801	24,994	92.8	6.6	7.2	100
66	Repair services of computers and personal and household goods.....	48,337	2,434	2,922	51,259	94.3	5.0	5.7	100
67	Total final domestic uses.....	10,218,920	5,168,013	7,809,434	18,028,354	56.7	50.6	43.3	100

1 Excl. re-exports.

Table 3.5.1: Emission-relevant domestic energy consumption
terajoules

No.	CPA ¹	Homogeneous branches ^{2,3}	2000	2005	2010	2011	2012	2013	2014	2015
1	A	Products of agriculture, forestry and fishing.....	157,744	151,917	169,718	168,608	192,897	199,131	190,916	191,235
2	01	Products of agriculture, hunting and related services.....	150,811	144,747	162,616	161,244	186,796	192,912	184,634	184,459
3	02	Products of forestry, logging and related services.....	5,263	5,876	5,972	6,251	5,019	5,105	5,145	5,544
4	03	Fish and other fishing products; aquaculture products.....	1,670	1,294	1,130	1,113	1,082	1,114	1,137	1,232
5	B	Mining and quarrying.....	40,622	31,207	28,840	26,757	19,930	22,141	20,582	22,059
6	05	Coal and lignite.....	3,015	2,220	7,317	7,168	1,618	1,280	980	1,774
7	06	Crude petroleum and natural gas.....	22,033	14,834	9,080	9,062	8,721	9,550	9,392	9,373
8	07-09	Metal ores, other mining and quarrying products.....	15,574	14,153	12,442	10,527	9,591	11,311	10,209	10,911
9	C	Manufactured products.....	2,153,997	2,064,622	2,084,143	2,059,138	1,971,405	2,020,484	1,981,460	2,001,383
10	10-12	Food products, beverages, tobacco products.....	158,290	151,300	154,532	145,856	147,252	145,885	148,154	144,931
11	13-15	Textiles, wearing apparel, leather and related products.....	28,764	24,867	14,767	13,984	13,509	13,834	13,233	13,071
12	16	Wood and products of wood and cork, except furniture.....	30,815	50,498	67,176	72,983	48,366	63,611	73,923	70,548
13	17	Paper and paper products.....	124,297	222,105	161,378	143,682	132,476	145,640	142,000	142,091
14	18	Printing and recording services.....	13,447	13,256	11,148	9,924	11,021	11,275	10,729	10,969
15	19	Coke and refined petroleum products.....	324,277	335,783	291,995	289,578	285,092	291,654	272,876	295,681
16	19.1	Coke oven products.....	46,183	24,386	24,711	23,926	22,987	23,645	25,051	25,224
17	19.2	Refined petroleum products.....	278,093	311,397	267,284	265,651	262,105	268,009	247,826	270,457
18	20	Chemicals and chemical products.....	299,851	253,727	325,573	319,681	298,540	305,016	304,824	304,592
19	21	Basic pharmaceutical products and pharmaceutical preparations.....	42,285	17,737	12,998	15,562	17,390	16,777	14,442	13,739
20	22	Rubber and plastic products.....	32,846	33,738	37,209	31,197	30,722	31,556	31,072	32,753
21	23	Other non-metallic mineral products.....	280,716	222,080	253,032	261,958	251,481	249,859	255,515	235,456
22	23.1	Glass and glass products.....	80,463	70,178	69,357	71,188	65,304	65,769	68,351	68,179
23	23.2-9	Refractory products, cut, shaped and finished stone.....	200,253	151,902	183,674	190,770	186,177	184,089	187,164	167,277
24	24	Basic metals.....	613,807	534,863	544,210	551,163	531,537	531,303	522,447	542,727
25	24.1-3	Basic iron and steel and ferro-alloys, other products of steel.....	551,338	478,691	483,014	491,381	473,992	479,085	470,248	486,622
26	24.4	Basic precious and other non-ferrous metals.....	38,704	32,842	32,852	30,881	29,494	29,549	35,073	32,106
27	24.5	Casting services of metal.....	23,764	23,330	28,344	28,902	28,051	22,670	17,126	24,000
28	25	Fabricated metal products, except machinery and equipment.....	55,326	52,288	54,470	54,099	51,502	53,243	49,304	51,751
29	26	Computer, electronic and optical products.....	14,713	11,470	10,190	11,607	12,268	13,057	11,489	10,735
30	27	Electrical equipment.....	11,775	10,770	12,318	11,563	10,765	10,792	11,103	11,954
31	28	Machinery and equipment n.e.c.....	47,253	49,619	47,083	43,091	44,786	44,445	40,019	38,469
32	29	Motor vehicles, trailers and semi-trailers.....	49,496	52,537	50,439	50,344	50,378	52,383	47,235	49,632
33	30	Other transport equipment.....	9,733	9,191	10,539	8,773	9,266	10,225	9,212	9,276
34	31-32	Furniture, other manufacture goods.....	13,950	16,662	19,340	18,666	19,331	24,294	17,651	16,757
35	33	Repair and installation services of machinery and equipment.....	2,355	2,131	5,745	5,426	5,724	5,635	6,229	6,251
36	D (35)	Electricity, gas, steam and air conditioning.....	3,819,287	4,216,675	4,413,623	4,416,050	4,323,740	4,391,706	4,191,639	2,654,920
37	35.1/3	Electricity, transmission and distribution services, steam.....	3,804,321	4,205,742	4,411,519	4,413,743	4,320,292	4,371,897	4,169,152	2,631,634
38	35.2	Manufactured gas.....	14,965	10,932	2,103	2,307	3,448	19,810	22,487	23,287
39	E	Water supply; sewerage, waste management and remediation services.....	75,746	72,018	71,327	70,565	72,320	86,911	79,434	73,155
40	36	Natural water; water treatment and supply services.....	482	552	1,108	1,029	998	1,028	1,056	1,066
41	37-39	Sewerage services; waste collection and materials recovery services.....	75,264	71,466	70,219	69,536	71,322	85,884	78,379	72,089
42	37	Sewerage services, sewerage sludge.....	9,156	6,062	6,198	5,875	5,708	5,803	5,991	6,026
43	38-39	Waste collection, treatment and disposal services.....	66,108	65,404	64,021	63,661	65,614	80,081	72,388	66,063
44	F	Constructions and construction works.....	150,547	125,506	118,413	122,588	120,203	126,864	124,767	128,872
45	41-42	Building and building construction works.....	74,139	61,492	46,284	46,951	46,465	49,068	48,880	50,644
46	43	Specialised construction works.....	76,408	64,014	72,128	75,637	73,738	77,796	75,888	78,228
47	G	Wholesale and retail trade services; repair services of motor vehicles.....	329,418	287,567	278,335	264,218	260,324	273,189	268,498	271,787
48	45	Wholesale and retail trade and repair services of motor vehicles.....	41,932	29,841	34,190	26,806	26,975	29,092	28,197	28,040
49	46	Wholesale trade services, except of motor vehicles and motorcycles.....	113,998	100,353	91,389	92,391	91,134	94,987	97,027	99,955
50	47	Retail trade services, except of motor vehicles and motorcycles.....	173,489	157,373	152,756	145,021	142,215	149,110	143,274	143,792
51	H	Transportation and storage services.....	785,493	1,075,865	1,138,283	1,084,330	1,138,823	1,148,328	1,118,657	1,151,925
52	49.1-2	Passenger rail transport services, freight rail transport services.....	30,723	23,671	8,301	7,950	7,397	7,760	7,138	7,473
53	49.3-5	Other passenger land transport services, transport service via pipeline.....	137,835	191,018	234,466	235,980	229,965	228,461	226,750	232,517
54	50	Water transport services.....	58,872	287,362	345,714	295,706	338,278	335,136	317,841	346,676
55	51	Air transport services.....	379,082	396,813	383,562	383,972	406,527	404,745	388,428	380,734
56	52	Warehousing and support services for transportation.....	131,599	129,463	119,571	119,867	117,243	126,321	126,484	130,243
57	53	Postal and courier services.....	47,382	47,538	46,668	40,855	39,413	45,905	52,016	54,281
58	I	Accommodation and food services.....	68,618	65,209	59,164	55,835	55,229	58,022	49,976	49,638
59	J	Information and communication services.....	66,516	65,789	47,934	51,289	49,923	51,802	48,301	49,808
60	K	Financial and insurance services.....	31,976	30,846	29,105	25,810	26,200	29,798	26,135	26,159
61	L	Real estate services.....	12,713	16,085	15,470	14,919	15,194	15,630	14,955	15,708
62	M	Professional, scientific and technical services.....	114,988	112,498	121,167	115,281	114,691	120,598	119,203	122,665
63	N	Administrative and support services.....	15,103	17,268	15,794	15,616	15,041	16,278	19,169	20,940
64	O	Public administration and defence services.....	121,141	115,238	113,222	101,222	96,774	100,170	95,614	102,471
65	P	Education services.....	77,506	77,836	70,914	64,264	62,444	67,129	56,783	57,987
66	Q	Human health and social work services.....	97,622	94,206	111,125	101,421	102,315	107,656	107,354	115,364
67	R-T	Other services.....	143,415	109,174	94,392	85,099	85,294	86,351	87,754	90,073
68		All homogeneous branches.....	8,262,452	8,729,527	8,980,967	8,843,011	8,722,746	8,922,190	8,601,196	7,146,150
69		Private households (residents concept).....	3,296,368	3,274,146	3,285,596	3,699,601	3,061,855	3,186,915	2,863,512	2,960,053
70		All homogeneous branches and private households (residents concept).....	11,558,821	12,003,673	12,266,563	12,542,612	11,784,601	12,109,106	11,464,708	10,106,203

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

terajoules

No.	CPA ¹	Homogeneous branches	Total	Hard coal and hard coal products	Lignite and lignite products	Mineral oil			
						Together	Crude oil	Motor gasoline	Gas-diesel oil
1	A	Products of agriculture, forestry and fishing.....	157,744	1,329	678	132,516	0	4,499	96,821
2	01	Products of agriculture, hunting and related services.....	150,811	1,329	678	125,589	0	1,926	92,466
3	02	Products of forestry, logging and related services.....	5,263	0	0	5,257	0	2,569	2,688
4	03	Fish and other fishing products; aquaculture products.....	1,670	0	0	1,670	0	3	1,667
5	B	Mining and quarrying.....	40,622	1,080	1,852	10,397	0	676	4,909
6	05	Coal and lignite.....	3,015	0	380	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.....	15,574	1,080	1,472	7,559	0	301	3,251
9	C	Manufactured products.....	2,153,997	389,595	60,178	587,383	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.....	30,815	153	92	7,667	0	400	940
13	17	Paper and paper products.....	124,297	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.....	324,277	29	6,955	256,734	0	584	1,650
16	19.1	Coke oven products.....	46,183	29	0	30	0	0	0
17	19.2	Refined petroleum products.....	278,093	0	6,955	256,703	0	584	1,650
18	20	Chemicals and chemical products.....	299,851	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.....	280,716	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.....	200,253	48,245	38,595	38,409	0	569	1,403
24	24	Basic metals.....	613,807	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.....	551,338	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.....	14,713	14	7	7,587	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.....	13,950	64	33	5,997	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.....	3,819,287	1,363,567	1,451,322	97,745	0	659	2,618
37	35.1/3	Electricity, transmission and distribution services, steam.....	3,804,321	1,363,567	1,451,322	97,287	0	556	2,262
38	35.2	Manufactured gas.....	14,965	0	0	458	0	102	356
39	E	Water supply; sewerage, waste management and remediation services.....	75,746	646	3	73,516	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.....	75,264	646	3	73,035	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.....	66,108	646	3	63,992	0	8,883	54,366
44	F	Constructions and construction works.....	150,547	410	209	133,512	0	13,705	90,365
45	41-42	Building and building construction works.....	74,139	200	102	65,799	0	6,303	45,158
46	43	Specialised construction works.....	76,408	209	107	67,713	0	7,402	45,207
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.....	785,493	60	447	768,801	0	9,762	355,275
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 4.....	58,872	0	0	58,853	0	8	30,477
55	51	Air transport services 4.....	379,082	0	0	379,055	0	1,173	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.....	66,516	132	67	54,143	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.....	15,103	29	15	9,489	0	2,004	4,612
64	O	Public administration and defence services.....	121,141	2,311	2,041	76,687	0	12,302	19,854
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		All homogeneous branches.....	8,262,452	1,767,211	1,520,921	2,478,385	0	180,778	948,638
69		Private households (domestic consumption).....	3,296,368	28,252	20,114	2,133,181	0	1,125,723	258,577
70		All homogeneous branches and private households (domestic concept).....	11,558,821	1,795,463	1,541,035	4,611,566	0	1,306,501	1,207,215

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.⁴ Energy consumption according the national greenhouse gas inventory (domestic concept).

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

terajoules

Mineral oil				Gases	Renewable energies and other non-renewable energy sources					Electricity	Nuclear energy	Remote heating	Other fossil sources ³	No.
Air fuel	Light fuel oil	Heavy fuel oil	Other mineral oil products		Together	Water and wind power, solar energy plant and other ²	biomass	Renewable energies	non-renewable waste, waste heat, etc.					
0	30,308	0	888	13,272	414	0	414	0	0	0	0	0	9,534	1
0	30,308	0	888	13,272	408	0	408	0	0	0	0	0	9,534	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	27,228	65	0	65	0	0	0	0	0	0	5
0	768	30	0	304	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	5,407	57	0	57	0	0	0	0	0	0	8
0	113,452	148,750	252,605	1,009,584	14,945	0	14,945	0	0	0	0	0	92,311	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	5,234	12
0	3,013	2,839	972	79,822	5,913	0	5,913	0	0	0	0	0	13,310	13
0	1,869	0	14	10,314	9	0	9	0	0	0	0	0	0	14
0	2,414	52,921	199,164	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	199,164	14,420	15	0	15	0	0	0	0	0	0	17
0	4,152	19,204	4,210	205,948	418	0	418	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	19,229	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	19,229	23
0	5,067	37,324	3,951	250,173	26	0	26	0	0	0	0	0	5,359	24
0	1,130	36,021	1,664	211,395	13	0	13	0	0	0	0	0	5,359	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	4	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	49	4,702	14	0	14	0	0	0	0	0	3,140	34
0	0	0	0	50	0	0	0	0	0	0	0	0	0	35
0	23,560	34,209	36,700	647,995	144,886	0	88,424	0	56,462	0	0	0	113,771	36
0	23,560	34,209	36,700	647,963	130,411	0	73,949	0	56,462	0	0	0	113,771	37
0	0	0	0	32	14,475	0	14,475	0	0	0	0	0	0	38
0	408	335	1	503	1,079	0	1,079	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	1	503	1,077	0	1,077	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	1	503	965	0	965	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
368,600	6,381	26,316	2,467	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
368,600	0	26,316	2,052	0	19	0	19	0	0	0	0	0	0	54
0	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	1	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
7,264	35,656	189	1,422	39,978	28	0	28	0	0	0	0	0	96	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
375,864	463,907	210,361	298,837	2,110,400	169,824	0	113,362	0	56,462	0	0	0	215,712	68
0	712,139	0	36,742	947,732	167,089	0	167,089	0	0	0	0	0	0	69
375,864	1,176,046	210,361	335,579	3,058,132	336,913	0	280,451	0	56,462	0	0	0	215,712	70

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

terajoules

No.	CPA ¹	Homogeneous branches	Total	Hard coal and hard coal products	Lignite and lignite products	Mineral oil			
						Together	Crude oil	Motor gasoline	Gas-diesel oil
1	A	Products of agriculture, forestry and fishing.....	151,917	975	25	124,798	0	3,454	97,497
2	01	Products of agriculture, hunting and related services.....	144,747	975	25	117,660	0	881	92,933
3	02	Products of forestry, logging and related services.....	5,876	0	0	5,844	0	2,568	3,277
4	03	Fish and other fishing products; aquaculture products.....	1,294	0	0	1,293	0	6	1,288
5	B	Mining and quarrying.....	31,207	1,345	2,295	7,471	0	252	3,076
6	05	Coal and lignite.....	2,220	0	325	1,094	0	71	723
7	06	Crude petroleum and natural gas.....	14,834	0	0	567	0	59	471
8	07-09	Metal ores, other mining and quarrying products.....	14,153	1,345	1,970	5,810	0	123	1,883
9	C	Manufactured products.....	2,064,622	295,186	65,862	536,920	0	13,053	50,769
10	10-12	Food products, beverages, tobacco products.....	151,300	3,383	5,699	37,672	0	1,375	5,078
11	13-15	Textiles, wearing apparel, leather and related products.....	24,867	772	0	6,688	0	236	869
12	16	Wood and products of wood and cork, except furniture.....	50,498	15	269	3,578	0	205	777
13	17	Paper and paper products.....	222,105	13,671	3,406	6,916	0	282	1,072
14	18	Printing and recording services.....	13,256	13	0	2,862	0	219	807
15	19	Coke and refined petroleum products.....	335,783	0	8,783	286,988	0	496	2,105
16	19.1	Coke oven products.....	24,386	0	0	16	0	3	13
17	19.2	Refined petroleum products.....	311,397	0	8,783	286,972	0	493	2,092
18	20	Chemicals and chemical products.....	253,727	1,146	4,585	28,336	0	993	3,691
19	21	Basic pharmaceutical products and pharmaceutical preparations.....	17,737	0	0	8,248	0	241	896
20	22	Rubber and plastic products.....	33,738	32	88	9,267	0	539	1,993
21	23	Other non-metallic mineral products.....	222,080	13,620	41,070	33,803	0	329	1,416
22	23.1	Glass and glass products.....	70,178	0	485	9,287	0	76	303
23	23.2-9	Refractory products, cut, shaped and finished stone.....	151,902	13,620	40,585	24,516	0	253	1,112
24	24	Basic metals.....	534,863	260,336	1,958	39,811	0	740	2,772
25	24.1-3	Basic iron and steel and ferro-alloys, other products of steel.....	478,691	248,914	1,264	32,493	0	415	1,561
26	24.4	Basic precious and other non-ferrous metals.....	32,842	3,183	596	5,440	0	224	840
27	24.5	Casting services of metal.....	23,330	8,239	98	1,879	0	101	371
28	25	Fabricated metal products, except machinery and equipment.....	52,288	340	1	16,890	0	941	3,994
29	26	Computer, electronic and optical products.....	11,470	27	1	5,330	0	525	2,072
30	27	Electrical equipment.....	10,770	499	0	7,549	0	897	3,612
31	28	Machinery and equipment n.e.c.....	49,619	224	1	18,946	0	1,647	6,817
32	29	Motor vehicles, trailers and semi-trailers.....	52,537	1,091	0	14,595	0	2,394	8,985
33	30	Other transport equipment.....	9,191	0	0	2,151	0	300	1,165
34	31-32	Furniture, other manufacture goods.....	16,662	16	0	5,330	0	292	1,158
35	33	Repair and installation services of machinery and equipment.....	2,131	0	0	1,959	0	404	1,491
36	D (35)	Electricity, gas, steam and air conditioning.....	4,216,675	1,306,392	1,501,031	116,595	0	649	3,326
37	35.1/3	Electricity, transmission and distribution services, steam.....	4,205,742	1,306,392	1,501,031	115,986	0	545	2,822
38	35.2	Manufactured gas.....	10,932	0	0	609	0	105	504
39	E	Water supply; sewerage, waste management and remediation services.....	72,018	0	0	58,808	0	3,465	53,303
40	36	Natural water; water treatment and supply services.....	552	0	0	523	0	89	434
41	37-39	Sewerage services; waste collection and materials recovery services.....	71,466	0	0	58,285	0	3,376	52,869
42	37	Sewerage services, sewerage sludge.....	6,062	0	0	5,735	0	946	4,787
43	38-39	Waste collection, treatment and disposal services.....	65,403	0	0	52,549	0	2,430	48,082
44	F	Constructions and construction works.....	125,506	262	7	109,342	0	8,758	71,654
45	41-42	Building and building construction works.....	61,492	118	3	54,093	0	4,602	35,282
46	43	Specialised construction works.....	64,014	144	4	55,249	0	4,155	36,372
47	G	Wholesale and retail trade services; repair services of motor vehicles.....	287,567	2,078	52	194,085	0	17,872	107,839
48	45	Wholesale and retail trade and repair services of motor vehicles.....	29,841	146	4	19,140	0	971	8,875
49	46	Wholesale trade services, except of motor vehicles and motorcycles.....	100,353	137	3	74,231	0	4,526	56,243
50	47	Retail trade services, except of motor vehicles and motorcycles.....	157,373	1,795	45	100,714	0	12,375	42,721
51	H	Transportation and storage services.....	1,075,865	0	0	1,019,312	0	5,782	360,568
52	49.1-2	Passenger rail transport services, freight rail transport services.....	23,671	0	0	22,051	0	31	21,626
53	49.3-5	Other passenger land transport services, transport service via pipeline.....	191,018	0	0	154,682	0	2,307	152,217
54	50	Water transport services 4.....	287,362	0	0	285,856	0	69	24,861
55	51	Air transport services 4.....	396,813	0	0	395,782	0	797	10,970
56	52	Warehousing and support services for transportation.....	129,463	0	0	117,666	0	1,116	110,881
57	53	Postal and courier services.....	47,538	0	0	43,275	0	1,463	40,014
58	I	Accommodation and food services.....	65,209	457	11	36,224	0	1,428	1,838
59	J	Information and communication services.....	65,789	0	0	48,026	0	4,362	30,098
60	K	Financial and insurance services.....	30,846	0	0	16,840	0	1,229	1,941
61	L	Real estate services.....	16,085	0	0	12,568	0	2,574	7,283
62	M	Professional, scientific and technical services.....	112,498	0	0	92,393	0	22,283	50,792
63	N	Administrative and support services.....	17,268	0	0	11,869	0	1,311	6,333
64	O	Public administration and defence services.....	115,238	1,454	1,455	72,212	0	10,151	22,089
65	P	Education services.....	77,836	217	5	23,928	0	267	1,247
66	Q	Human health and social work services.....	94,206	1,249	31	33,675	0	2,464	3,728
67	R-T	Other services.....	109,174	143	4	68,023	0	4,738	39,919
68		All homogeneous branches.....	8,729,527	1,609,758	1,570,779	2,583,089	0	104,093	913,301
69		Private households (domestic consumption).....	3,274,146	15,407	16,998	2,043,430	0	1,005,800	379,877
70		All homogeneous branches and private households (domestic concept).....	12,003,673	1,625,166	1,587,777	4,626,519	0	1,109,892	1,293,178

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.⁴ Energy consumption according the national greenhouse gas inventory (domestic concept).

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

terajoules

Mineral oil				Gases	Renewable energies and other non-renewable energy sources					Electricity	Nuclear energy	Remote heating	Other fossil sources ³	No.
Air fuel	Light fuel oil	Heavy fuel oil	Other mineral oil products		Together	Water and wind power, solar energy plant and other ²	biomass	Renewable energies	non-renewable waste, waste heat, etc.					
0	21,443	0	2,403	14,994	1,592	0	1,592	0	0	0	0	0	9,534	1
0	21,443	0	2,403	14,993	1,559	0	1,559	0	0	0	0	0	9,534	2
0	0	0	0	0	31	0	31	0	0	0	0	0	0	3
0	0	0	0	0	1	0	1	0	0	0	0	0	0	4
0	2,166	565	1,412	19,668	428	0	199	0	229	0	0	0	0	5
0	287	13	0	548	252	0	23	0	229	0	0	0	0	6
0	38	0	0	14,238	29	0	29	0	0	0	0	0	0	7
0	1,841	552	1,412	4,881	146	0	146	0	0	0	0	0	0	8
0	88,704	128,006	256,389	893,855	200,252	0	92,922	0	107,330	0	0	0	72,546	9
0	20,679	9,163	1,378	101,168	3,378	0	1,918	0	1,460	0	0	0	0	10
0	4,918	480	185	17,293	115	0	115	0	0	0	0	0	0	11
0	1,417	1,001	178	12,316	29,086	0	28,914	0	172	0	0	0	5,234	12
0	2,628	2,478	457	83,693	109,061	0	29,323	0	79,738	0	0	0	5,357	13
0	1,790	0	47	10,319	62	0	62	0	0	0	0	0	0	14
0	1,433	61,603	221,351	39,886	126	0	126	0	0	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	125	0	125	0	0	0	0	0	0	17
0	4,439	15,485	3,728	160,474	15,648	0	889	0	14,759	0	0	0	43,537	18
0	1,113	0	5,999	8,990	499	0	499	0	0	0	0	0	0	19
0	5,420	314	1,002	21,618	2,733	0	1,915	0	818	0	0	0	0	20
0	8,909	11,370	11,781	86,615	33,238	0	23,104	0	10,134	0	0	0	13,734	21
0	630	5,949	2,329	59,695	711	0	709	0	2	0	0	0	0	22
0	8,279	5,421	9,451	26,920	32,527	0	22,395	0	10,132	0	0	0	13,734	23
0	3,359	25,653	7,288	230,516	697	0	497	0	199	0	0	0	1,544	24
0	918	24,540	5,059	194,209	267	0	244	0	22	0	0	0	1,544	25
0	1,414	1,032	1,930	23,215	407	0	230	0	177	0	0	0	0	26
0	1,027	81	299	13,092	23	0	23	0	0	0	0	0	0	27
0	9,836	74	2,046	34,639	418	0	381	0	37	0	0	0	0	28
0	2,732	0	1	5,945	167	0	167	0	0	0	0	0	0	29
0	2,998	40	2	2,491	231	0	231	0	0	0	0	0	0	30
0	9,787	189	507	29,900	549	0	546	0	2	0	0	0	0	31
0	2,848	116	252	35,776	1,075	0	1,065	0	10	0	0	0	0	32
0	685	0	1	6,966	74	0	74	0	0	0	0	0	0	33
0	3,651	40	188	5,172	3,003	0	3,003	0	0	0	0	0	3,140	34
0	63	0	1	80	92	0	92	0	0	0	0	0	0	35
0	20,232	37,003	55,384	858,858	328,243	0	224,556	0	103,686	0	0	0	105,555	36
0	20,232	37,003	55,384	851,588	325,190	0	221,504	0	103,686	0	0	0	105,555	37
0	0	0	0	7,270	3,053	0	3,053	0	0	0	0	0	0	38
0	1,475	284	281	1,116	6,173	0	6,173	0	0	0	0	0	5,921	39
0	0	0	0	10	18	0	18	0	0	0	0	0	0	40
0	1,475	284	280	1,106	6,155	0	6,155	0	0	0	0	0	5,921	41
0	0	0	2	13	314	0	314	0	0	0	0	0	0	42
0	1,475	284	278	1,093	5,840	0	5,840	0	0	0	0	0	5,921	43
0	21,860	0	7,070	13,812	2,084	0	2,084	0	0	0	0	0	0	44
0	9,967	0	4,242	6,237	1,042	0	1,042	0	0	0	0	0	0	45
0	11,893	0	2,828	7,575	1,043	0	1,043	0	0	0	0	0	0	46
0	65,229	0	3,146	84,047	7,305	0	7,305	0	0	0	0	0	0	47
0	9,291	0	2	9,933	617	0	617	0	0	0	0	0	0	48
0	13,453	0	10	21,324	4,657	0	4,657	0	0	0	0	0	0	49
0	42,484	0	3,134	52,789	2,031	0	2,031	0	0	0	0	0	0	50
383,989	8,034	260,828	110	32,256	24,297	0	24,297	0	0	0	0	0	0	51
0	394	0	0	360	1,260	0	1,260	0	0	0	0	0	0	52
0	152	0	5	25,838	10,499	0	10,499	0	0	0	0	0	0	53
0	0	260,828	99	0	1,505	0	1,505	0	0	0	0	0	0	54
383,989	26	0	0	20	1,011	0	1,011	0	0	0	0	0	0	55
0	5,667	0	2	4,373	7,424	0	7,424	0	0	0	0	0	0	56
0	1,795	0	3	1,664	2,599	0	2,599	0	0	0	0	0	0	57
0	29,001	0	3,958	28,416	100	0	100	0	0	0	0	0	0	58
0	13,557	0	9	15,637	2,126	0	2,126	0	0	0	0	0	0	59
0	13,667	0	3	13,874	132	0	132	0	0	0	0	0	0	60
0	2,705	0	6	3,098	420	0	420	0	0	0	0	0	0	61
0	17,856	3	1,460	17,615	2,490	0	2,490	0	0	0	0	0	0	62
0	4,223	0	3	4,994	405	0	405	0	0	0	0	0	0	63
1,252	35,310	13	3,397	39,402	620	0	620	0	0	0	0	0	95	64
0	22,403	11	1	53,584	101	0	101	0	0	0	0	0	0	65
0	27,473	5	5	59,031	220	0	220	0	0	0	0	0	0	66
0	23,353	2	10	38,806	2,199	0	2,199	0	0	0	0	0	0	67
385,241	418,690	426,719	335,046	2,193,062	579,187	0	367,941	0	211,246	0	0	0	193,651	68
0	628,974	0	28,779	987,822	210,488	0	210,488	0	0	0	0	0	0	69
385,241	1,047,664	426,719	363,825	3,180,885	789,675	0	578,430	0	211,246	0	0	0	193,651	70

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

terajoules

No.	CPA ¹	Homogeneous branches	Total	Hard coal and hard coal products	Lignite and lignite products	Mineral oil			
						Together	Crude oil	Motor gasoline	Gas-diesel oil
1	A	Products of agriculture, forestry and fishing.....	169,718	300	0	136,612	0	2,337	110,692
2	01	Products of agriculture, hunting and related services.....	162,616	300	0	129,552	0	708	105,262
3	02	Products of forestry, logging and related services.....	5,972	0	0	5,935	0	1,622	4,311
4	03	Fish and other fishing products; aquaculture products.....	1,130	0	0	1,126	0	7	1,119
5	B	Mining and quarrying.....	28,840	113	2,335	5,032	0	113	2,661
6	05	Coal and lignite.....	7,317	0	125	1,231	0	33	862
7	06	Crude petroleum and natural gas.....	9,080	0	0	573	0	25	543
8	07-09	Metal ores, other mining and quarrying products.....	12,442	113	2,210	3,228	0	55	1,257
9	C	Manufactured products.....	2,084,143	333,949	69,007	438,984	0	8,729	56,591
10	10-12	Food products, beverages, tobacco products.....	154,532	3,818	4,751	26,886	0	912	5,715
11	13-15	Textiles, wearing apparel, leather and related products.....	14,767	501	0	1,670	0	117	735
12	16	Wood and products of wood and cork, except furniture.....	67,176	0	132	4,689	0	122	760
13	17	Paper and paper products.....	161,378	12,175	4,144	5,281	0	208	1,319
14	18	Printing and recording services.....	11,148	0	0	1,990	0	126	792
15	19	Coke and refined petroleum products.....	291,995	0	7,317	227,553	0	317	2,115
16	19.1	Coke oven products.....	24,711	0	0	13	0	2	11
17	19.2	Refined petroleum products.....	267,284	0	7,317	227,539	0	315	2,104
18	20	Chemicals and chemical products.....	325,573	13,256	9,431	23,456	0	639	3,996
19	21	Basic pharmaceutical products and pharmaceutical preparations.....	12,998	0	0	1,876	0	163	1,016
20	22	Rubber and plastic products.....	37,209	0	374	12,585	0	349	2,175
21	23	Other non-metallic mineral products.....	253,032	16,446	42,374	31,884	0	210	1,341
22	23.1	Glass and glass products.....	69,357	0	0	8,775	0	51	319
23	23.2-9	Refractory products, cut, shaped and finished stone.....	183,674	16,446	42,374	23,109	0	159	1,022
24	24	Basic metals.....	544,210	286,507	385	24,923	0	505	3,179
25	24.1-3	Basic iron and steel and ferro-alloys, other products of steel.....	483,014	275,172	90	14,746	0	273	1,709
26	24.4	Basic precious and other non-ferrous metals.....	32,852	816	295	6,259	0	162	1,034
27	24.5	Casting services of metal.....	28,344	10,519	0	3,917	0	70	436
28	25	Fabricated metal products, except machinery and equipment.....	54,470	298	0	16,433	0	600	3,754
29	26	Computer, electronic and optical products.....	10,190	0	0	5,178	0	490	3,125
30	27	Electrical equipment.....	12,318	174	0	6,543	0	472	2,946
31	28	Machinery and equipment n.e.c.....	47,083	86	99	19,455	0	1,024	6,727
32	29	Motor vehicles, trailers and semi-trailers.....	50,439	688	0	16,202	0	1,708	12,026
33	30	Other transport equipment.....	10,539	0	0	4,211	0	337	2,170
34	31-32	Furniture, other manufacture goods.....	19,340	0	0	5,679	0	202	1,286
35	33	Repair and installation services of machinery and equipment.....	5,745	0	0	2,490	0	227	1,412
36	D (35)	Electricity, gas, steam and air conditioning.....	4,413,623	1,157,284	1,408,094	88,638	4,770	5,639	4,908
37	35.1/3	Electricity, transmission and distribution services, steam.....	4,411,519	1,157,284	1,408,094	87,803	0	669	4,908
38	35.2	Manufactured gas.....	2,103	0	0	835	0	102	731
39	E	Water supply, sewerage, waste management and remediation services.....	71,327	0	0	60,592	0	2,711	55,213
40	36	Natural water; water treatment and supply services.....	1,108	0	0	1,024	0	55	968
41	37-39	Sewerage services; waste collection and materials recovery services.....	70,219	0	0	59,568	0	2,656	54,245
42	37	Sewerage services, sewerage sludge.....	6,198	0	0	5,839	0	671	5,153
43	38-39	Waste collection, treatment and disposal services.....	64,021	0	0	53,729	0	1,985	49,092
44	F	Constructions and construction works.....	118,413	0	0	100,712	0	5,098	73,823
45	41-42	Building and building construction works.....	46,284	0	0	40,567	0	2,266	29,402
46	43	Specialised construction works.....	72,128	0	0	60,145	0	2,832	44,421
47	G	Wholesale and retail trade services; repair services of motor vehicles.....	278,335	2,407	0	180,384	0	14,418	108,098
48	45	Wholesale and retail trade and repair services of motor vehicles.....	34,190	326	0	20,637	0	685	11,261
49	46	Wholesale trade services, except of motor vehicles and motorcycles.....	91,389	528	0	72,712	0	4,396	60,650
50	47	Retail trade services, except of motor vehicles and motorcycles.....	152,756	1,553	0	87,035	0	9,337	36,187
51	H	Transportation and storage services.....	1,138,283	0	0	1,070,125	0	3,852	364,490
52	49.1-2	Passenger rail transport services, freight rail transport services.....	8,301	0	0	6,864	0	10	6,698
53	49.3-5	Other passenger land transport services, transport service via pipeline.....	234,466	0	0	191,741	0	1,627	190,003
54	50	Water transport services.....	345,714	0	0	344,959	0	11	30,866
55	51	Air transport services.....	383,562	0	0	383,445	0	579	820
56	52	Warehousing and support services for transportation.....	119,571	0	0	102,565	0	768	97,501
57	53	Postal and courier services.....	46,668	0	0	40,550	0	857	38,602
58	I	Accommodation and food services.....	59,164	540	0	32,721	0	1,018	2,070
59	J	Information and communication services.....	47,934	0	0	30,128	0	2,172	20,713
60	K	Financial and insurance services.....	29,105	0	0	10,984	0	756	2,823
61	L	Real estate services.....	15,470	0	0	11,381	0	1,747	8,078
62	M	Professional, scientific and technical services.....	121,167	0	0	93,285	0	14,756	65,017
63	N	Administrative and support services.....	15,794	0	0	8,204	0	637	3,171
64	O	Public administration and defence services.....	113,222	4,628	2,169	57,892	0	7,145	22,458
65	P	Education services.....	70,914	310	0	21,282	0	222	1,379
66	Q	Human health and social work services.....	111,125	1,989	0	35,417	0	2,659	6,188
67	R-T	Other services.....	94,392	217	0	61,505	0	3,610	41,742
68		All homogeneous branches.....	8,980,967	1,501,736	1,481,605	2,443,879	0	72,750	950,848
69		Private households (domestic consumption).....	3,285,596	31,000	22,758	1,864,847	0	845,274	453,490
70		All homogeneous branches and private households (domestic concept).....	12,266,563	1,532,736	1,504,363	4,308,726	0	918,025	1,404,338

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 ³	No.
Air fuel	Light fuel oil	Heavy fuel oil	Other mineral oil products		Together	Water and wind power, solar energy plant and other ²	biomass	Renewable energies	non-renewable waste, waste heat, etc.					
0	21,474	0	2,110	9,107	14,165	0	14,165	0	0	0	0	0	9,534	1
0	21,474	0	2,108	9,106	14,124	0	14,124	0	0	0	0	0	9,534	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	913	14,806	6,554	0	870	0	5,684	0	0	0	0	5
0	314	21	1	210	5,751	0	67	0	5,684	0	0	0	0	6
0	5	0	1	8,457	50	0	50	0	0	0	0	0	0	7
0	904	100	911	6,139	753	0	753	0	0	0	0	0	0	8
0	84,824	71,996	216,843	962,735	226,943	0	148,028	0	78,915	0	0	0	52,526	9
0	15,984	1,880	2,395	108,006	11,072	0	8,016	0	3,056	0	0	0	0	10
0	814	0	3	12,541	55	0	55	0	0	0	0	0	0	11
0	2,344	1,386	77	8,641	48,480	0	48,260	0	220	0	0	0	5,234	12
0	2,632	789	333	86,759	47,712	0	44,404	0	3,308	0	0	0	5,307	13
0	1,068	0	3	9,098	60	0	60	0	0	0	0	0	0	14
0	2,329	42,156	180,635	51,973	5,153	0	537	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	180,635	27,276	5,152	0	536	0	4,616	0	0	0	0	17
0	3,646	11,899	3,275	197,781	61,774	0	27,987	0	33,787	0	0	0	19,875	18
0	600	0	96	9,840	1,282	0	1,282	0	0	0	0	0	0	19
0	7,597	342	2,122	23,407	843	0	427	0	416	0	0	0	0	20
0	12,344	7,898	10,090	102,018	41,450	0	8,289	0	33,161	0	0	0	18,860	21
0	844	5,891	1,670	60,540	42	0	42	0	0	0	0	0	0	22
0	11,500	2,007	8,420	41,478	41,408	0	8,247	0	33,161	0	0	0	18,860	23
0	2,404	5,591	13,243	231,593	693	0	380	0	313	0	0	0	110	24
0	818	4,614	7,333	192,642	253	0	253	0	0	0	0	0	110	25
0	865	977	3,220	25,076	406	0	93	0	313	0	0	0	0	26
0	721	0	2,691	13,875	33	0	33	0	0	0	0	0	0	27
0	9,064	0	3,015	36,127	1,612	0	1,589	0	23	0	0	0	0	28
0	1,400	0	164	4,691	321	0	321	0	0	0	0	0	0	29
0	3,042	0	84	5,358	244	0	244	0	0	0	0	0	0	30
0	11,130	55	519	26,596	847	0	842	0	5	0	0	0	0	31
0	2,213	0	254	32,260	1,289	0	1,279	0	10	0	0	0	0	32
0	1,696	0	8	6,154	174	0	174	0	0	0	0	0	0	33
0	3,715	0	477	6,763	3,758	0	3,758	0	0	0	0	0	3,140	34
0	799	0	52	3,129	126	0	126	0	0	0	0	0	0	35
0	16,679	36,443	29,106	928,934	701,559	0	542,598	0	158,961	0	0	0	129,113	36
0	16,679	36,443	29,104	928,373	700,852	0	541,891	0	158,961	0	0	0	129,113	37
0	0	0	2	561	707	0	707	0	0	0	0	0	0	38
0	561	165	1,942	556	10,178	0	10,178	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	1,941	546	10,105	0	10,105	0	0	0	0	0	0	41
0	0	0	16	16	342	0	342	0	0	0	0	0	0	42
0	561	165	1,925	529	9,763	0	9,763	0	0	0	0	0	0	43
0	15,585	0	6,207	15,232	2,469	0	2,469	0	0	0	0	0	0	44
0	5,187	0	3,712	4,938	779	0	779	0	0	0	0	0	0	45
0	10,397	0	2,495	10,294	1,690	0	1,690	0	0	0	0	0	0	46
0	54,814	0	3,054	86,677	8,867	0	8,867	0	0	0	0	0	0	47
0	8,675	0	16	12,226	1,001	0	1,001	0	0	0	0	0	0	48
0	7,560	0	106	12,282	5,867	0	5,867	0	0	0	0	0	0	49
0	38,580	0	2,932	62,169	2,000	0	2,000	0	0	0	0	0	0	50
381,880	5,741	314,082	79	36,436	31,722	0	31,722	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	39	24,911	17,815	0	17,815	0	0	0	0	0	0	53
0	0	314,082	0	0	755	0	755	0	0	0	0	0	0	54
381,880	166	0	0	20	97	0	97	0	0	0	0	0	0	55
0	4,278	0	18	8,977	8,029	0	8,029	0	0	0	0	0	0	56
0	1,070	0	21	2,178	3,939	0	3,939	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	1,895	0	1,895	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	24,083	3,799	0	3,799	0	0	0	0	0	0	62
0	4,380	0	15	7,356	234	0	234	0	0	0	0	0	0	63
2,589	22,682	10	3,007	44,421	4,024	0	4,024	0	0	0	0	0	88	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	2,246	0	2,246	0	0	0	0	0	0	66
0	16,064	2	87	28,364	4,305	0	4,305	0	0	0	0	0	0	67
384,469	344,376	422,832	268,603	2,341,485	1,021,001	0	777,441	0	243,560	0	0	0	191,261	68
0	519,355	0	46,728	1,024,725	342,266	0	342,266	0	0	0	0	0	0	69
384,469	863,731	422,832	315,331	3,366,210	1,363,267	0	1,119,707	0	243,560	0	0	0	191,261	70

Table 3.5.2.4: Emission-relevant energy consumption by type of energy source 2015

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No.	CPA ¹	Homogeneous branches	Total	Hard coal and hard coal products	Lignite and lignite products	Mineral oil			
						Together	Crude oil	Motor gasoline	Gas-diesel oil
1	A	Products of agriculture, forestry and fishing.....	191,235	360	0	145,772	0	1,441	127,633
2	01	Products of agriculture, hunting and related services.....	184,459	360	0	139,032	0	677	121,659
3	02	Products of forestry, logging and related services.....	5,544	0	0	5,511	0	759	4,750
4	03	Fish and other fishing products; aquaculture products.....	1,232	0	0	1,229	0	4	1,224
5	B	Mining and quarrying.....	22,059	66	2,906	4,289	0	72	2,558
6	05	Coal and lignite.....	1,774	0	376	587	0	14	481
7	06	Crude petroleum and natural gas.....	9,373	0	0	686	0	19	660
8	07-09	Metal ores, other mining and quarrying products.....	10,911	66	2,530	3,016	0	40	1,416
9	C	Manufactured products.....	2,001,383	363,417	68,047	363,657	0	8,692	64,085
10	10-12	Food products, beverages, tobacco products.....	144,931	3,430	6,423	19,147	0	922	6,772
11	13-15	Textiles, wearing apparel, leather and related products.....	13,071	226	0	1,674	0	106	769
12	16	Wood and products of wood and cork, except furniture.....	70,548	0	28	2,140	0	120	875
13	17	Paper and paper products.....	142,091	7,516	10,545	3,515	0	188	1,379
14	18	Printing and recording services.....	10,969	0	0	1,494	0	105	765
15	19	Coke and refined petroleum products.....	295,681	0	0	215,407	0	368	2,809
16	19.1	Coke oven products.....	25,224	0	0	17	0	2	14
17	19.2	Refined petroleum products.....	270,457	0	0	215,391	0	366	2,794
18	20	Chemicals and chemical products.....	304,592	28,993	3,441	19,775	0	626	4,569
19	21	Basic pharmaceutical products and pharmaceutical preparations.....	13,739	0	0	1,740	0	169	1,241
20	22	Rubber and plastic products.....	32,753	0	110	6,203	0	346	2,533
21	23	Other non-metallic mineral products.....	235,456	15,482	41,234	19,425	0	210	1,578
22	23.1	Glass and glass products.....	68,179	2	0	4,678	0	46	338
23	23.2-9	Refractory products, cut, shaped and finished stone.....	167,277	15,480	41,234	14,747	0	164	1,240
24	24	Basic metals.....	542,727	307,328	6,266	9,324	0	498	3,621
25	24.1-3	Basic iron and steel and ferro-alloys, other products of steel.....	486,622	297,719	6,266	2,838	0	259	1,883
26	24.4	Basic precious and other non-ferrous metals.....	32,106	2,003	0	5,316	0	169	1,224
27	24.5	Casting services of metal.....	24,000	7,606	0	1,170	0	71	514
28	25	Fabricated metal products, except machinery and equipment.....	51,751	171	0	14,777	0	609	4,454
29	26	Computer, electronic and optical products.....	10,735	0	0	4,651	0	462	3,444
30	27	Electrical equipment.....	11,954	57	0	4,776	0	424	3,072
31	28	Machinery and equipment n.e.c.....	38,469	110	0	13,586	0	1,071	7,910
32	29	Motor vehicles, trailers and semi-trailers.....	49,632	104	0	16,016	0	1,713	12,684
33	30	Other transport equipment.....	9,276	0	0	3,269	0	345	2,610
34	31-32	Furniture, other manufacture goods.....	16,757	0	0	3,838	0	188	1,399
35	33	Repair and installation services of machinery and equipment.....	6,251	0	0	2,898	0	220	1,601
36	D (35)	Electricity, gas, steam and air conditioning.....	2,654,920	1,095,005	24,803	64,482	0	466	6,944
37	35.1/3	Electricity, transmission and distribution services, steam.....	2,631,634	1,095,005	24,803	63,256	0	386	5,799
38	35.2	Manufactured gas.....	23,287	0	0	1,226	0	80	1,145
39	E	Water supply, sewerage, waste management and remediation services.....	73,155	0	0	53,326	0	2,062	50,656
40	36	Natural water; water treatment and supply services.....	1,066	0	0	968	0	31	937
41	37-39	Sewerage services; waste collection and materials recovery services.....	72,089	0	0	52,357	0	2,031	49,720
42	37	Sewerage services, sewerage sludge.....	6,026	0	0	5,681	0	501	5,168
43	38-39	Waste collection, treatment and disposal services.....	66,063	0	0	46,676	0	1,530	44,551
44	F	Constructions and construction works.....	128,872	0	0	112,560	0	3,811	90,546
45	41-42	Building and building construction works.....	50,644	0	0	45,890	0	1,633	37,530
46	43	Specialised construction works.....	78,228	0	0	66,669	0	2,178	53,017
47	G	Wholesale and retail trade services; repair services of motor vehicles.....	271,787	1,364	0	181,348	0	13,199	114,718
48	45	Wholesale and retail trade and repair services of motor vehicles.....	28,040	140	0	15,109	0	593	6,431
49	46	Wholesale trade services, except of motor vehicles and motorcycles.....	99,955	286	0	78,611	0	4,134	64,864
50	47	Retail trade services, except of motor vehicles and motorcycles.....	143,792	938	0	87,628	0	8,472	43,423
51	H	Transportation and storage services.....	1,151,925	0	0	1,096,008	0	3,756	409,173
52	49.1-2	Passenger rail transport services, freight rail transport services.....	7,473	0	0	5,979	0	5	5,765
53	49.3-5	Other passenger land transport services, transport service via pipeline.....	232,517	0	0	201,109	0	1,431	198,688
54	50	Water transport services.....	346,676	0	0	346,604	0	8	49,937
55	51	Air transport services.....	380,734	0	0	380,509	0	563	815
56	52	Warehousing and support services for transportation.....	130,243	0	0	114,713	0	967	109,019
57	53	Postal and courier services.....	54,281	0	0	47,095	0	783	44,948
58	I	Accommodation and food services.....	49,638	1,970	0	26,917	0	985	2,917
59	J	Information and communication services.....	49,808	0	0	32,410	0	2,234	24,992
60	K	Financial and insurance services.....	26,159	0	0	9,942	0	752	3,892
61	L	Real estate services.....	15,708	0	0	12,504	0	1,795	9,754
62	M	Professional, scientific and technical services.....	122,665	0	0	92,974	0	12,679	69,752
63	N	Administrative and support services.....	20,940	0	0	10,098	0	603	4,622
64	O	Public administration and defence services.....	102,471	0	0	51,390	0	7,875	24,004
65	P	Education services.....	57,987	146	0	16,079	0	229	1,655
66	Q	Human health and social work services.....	115,364	382	0	30,599	0	3,094	8,665
67	R-T	Other services.....	90,073	152	0	56,982	0	2,885	42,017
68		All homogeneous branches.....	7,146,150	1,462,862	95,756	2,361,335	0	66,630	1,058,584
69		Private households (domestic consumption).....	2,960,053	14,539	28,134	1,764,512	0	748,034	547,227
70		All homogeneous branches and private households (domestic concept).....	10,106,203	1,477,401	123,890	4,125,848	0	814,664	1,605,811

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 2015

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Mineral oil				Gases	Renewable energies and other non-renewable energy sources					Electricity	Nuclear energy	Remote heating	Other fossil sources ³	No.
Air fuel	Light fuel oil	Heavy fuel oil	Other mineral oil products		Together	Water and wind power, solar energy plant and other ²	biomass	Renewable energies	non-renewable waste, waste heat, etc.					
0	14,987	0	1,710	5,207	39,897	0	39,897	0	0	0	0	0	1	
0	14,987	0	1,709	5,206	39,861	0	39,861	0	0	0	0	0	2	
0	0	0	1	0	33	0	33	0	0	0	0	0	3	
0	0	0	0	0	3	0	3	0	0	0	0	0	4	
0	719	50	890	13,751	1,047	0	1,047	0	0	0	0	0	5	
0	92	0	0	775	36	0	36	0	0	0	0	0	6	
0	7	0	0	8,638	49	0	49	0	0	0	0	0	7	
0	620	50	890	4,337	962	0	962	0	0	0	0	0	8	
0	41,400	45,877	203,603	966,435	218,382	0	141,393	0	76,989	0	0	21,446	9	
0	9,706	1,019	728	113,138	2,794	0	2,794	0	0	0	0	0	10	
0	769	0	30	11,110	61	0	61	0	0	0	0	0	11	
0	873	163	109	6,772	61,608	0	61,571	0	37	0	0	0	12	
0	891	341	716	79,525	40,991	0	37,883	0	3,108	0	0	0	13	
0	616	0	8	9,418	57	0	57	0	0	0	0	0	14	
0	444	31,153	180,634	71,830	8,443	0	1,639	0	6,804	0	0	0	15	
0	0	0	0	25,206	1	0	1	0	0	0	0	0	16	
0	444	31,153	180,634	46,624	8,442	0	1,638	0	6,804	0	0	0	17	
0	1,965	8,426	4,189	198,375	35,699	0	2,349	0	33,350	0	0	18,308	18	
0	326	0	4	10,682	1,317	0	1,317	0	0	0	0	0	19	
0	2,455	93	777	24,500	1,939	0	1,939	0	0	0	0	0	20	
0	3,383	3,409	10,845	104,137	52,040	0	18,679	0	33,361	0	0	3,138	21	
0	352	2,782	1,160	62,191	1,308	0	811	0	497	0	0	0	22	
0	3,031	627	9,686	41,946	50,732	0	17,868	0	32,864	0	0	3,138	23	
0	1,469	1,261	2,475	219,264	545	0	286	0	259	0	0	0	24	
0	618	39	39	179,628	172	0	172	0	0	0	0	0	25	
0	321	1,222	2,381	24,442	343	0	84	0	259	0	0	0	26	
0	530	0	55	15,194	30	0	30	0	0	0	0	0	27	
0	7,877	0	1,837	35,257	1,546	0	1,478	0	68	0	0	0	28	
0	726	0	19	5,781	303	0	303	0	0	0	0	0	29	
0	1,206	0	74	6,901	220	0	220	0	0	0	0	0	30	
0	3,896	12	696	23,863	910	0	909	0	1	0	0	0	31	
0	1,388	0	230	32,511	1,001	0	1,000	0	1	0	0	0	32	
0	299	0	14	5,830	177	0	177	0	0	0	0	0	33	
0	2,171	0	81	4,326	8,593	0	8,593	0	0	0	0	0	34	
0	940	0	137	3,214	139	0	139	0	0	0	0	0	35	
0	12,254	10,011	34,808	685,414	671,624	0	524,558	0	147,066	0	0	113,591	36	
0	12,254	10,011	34,806	685,344	649,635	0	502,569	0	147,066	0	0	113,591	37	
0	0	0	2	71	21,990	0	21,990	0	0	0	0	0	38	
0	559	0	49	1,109	18,720	0	18,720	0	0	0	0	0	39	
0	0	0	1	40	58	0	58	0	0	0	0	0	40	
0	559	0	48	1,069	18,663	0	18,663	0	0	0	0	0	41	
0	0	0	12	75	270	0	270	0	0	0	0	0	42	
0	559	0	36	994	18,393	0	18,393	0	0	0	0	0	43	
0	13,168	0	5,035	14,092	2,220	0	2,220	0	0	0	0	0	44	
0	3,719	0	3,009	3,978	775	0	775	0	0	0	0	0	45	
0	9,449	0	2,026	10,113	1,445	0	1,445	0	0	0	0	0	46	
0	50,928	0	2,503	82,152	6,922	0	6,922	0	0	0	0	0	47	
0	8,070	0	14	12,476	316	0	316	0	0	0	0	0	48	
0	9,516	0	98	16,288	4,770	0	4,770	0	0	0	0	0	49	
0	33,342	0	2,391	53,389	1,837	0	1,837	0	0	0	0	0	50	
378,962	7,384	296,659	75	30,468	25,448	0	25,448	0	0	0	0	0	51	
0	209	0	0	710	784	0	784	0	0	0	0	0	52	
0	957	0	34	16,672	14,736	0	14,736	0	0	0	0	0	53	
0	0	296,659	0	0	72	0	72	0	0	0	0	0	54	
378,962	168	0	0	150	76	0	76	0	0	0	0	0	55	
0	4,704	0	22	8,779	6,751	0	6,751	0	0	0	0	0	56	
0	1,346	0	18	4,157	3,029	0	3,029	0	0	0	0	0	57	
0	20,203	0	2,812	20,599	152	0	152	0	0	0	0	0	58	
0	5,130	0	53	15,791	1,608	0	1,608	0	0	0	0	0	59	
0	5,279	0	18	15,997	220	0	220	0	0	0	0	0	60	
0	912	0	43	2,777	428	0	428	0	0	0	0	0	61	
0	9,246	0	1,297	26,538	3,154	0	3,154	0	0	0	0	0	62	
0	4,858	0	14	10,606	237	0	237	0	0	0	0	0	63	
3,278	13,803	0	2,430	40,676	10,406	0	10,406	0	0	0	0	0	64	
0	14,189	0	5	39,092	2,669	0	2,669	0	0	0	0	0	65	
0	18,767	0	73	78,979	5,404	0	5,404	0	0	0	0	0	66	
0	12,011	0	68	27,107	5,832	0	5,832	0	0	0	0	0	67	
382,240	245,798	352,597	255,486	2,076,789	1,014,370	0	790,315	0	224,055	0	0	135,037	68	
0	427,067	0	42,184	868,179	284,689	0	284,689	0	0	0	0	0	69	
382,240	672,865	352,597	297,670	2,944,968	1,299,059	0	1,075,004	0	224,055	0	0	135,037	70	

Table 3.5.3: Emission relevant energy consumption of industries and households
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No.	WZ 2008 Code ¹	Industries and private households ^{2,3}	2000	2005	2010	2011	2012	2013	2014	2015
1	A	Agriculture, forestry and fishing.....	148,210	178,591	396,700	438,079	361,108	389,717	392,361	410,822
2	01	Crop and animal production, hunting and related services.....	141,277	171,421	389,597	430,715	355,007	383,498	386,079	404,046
3	02	Forestry and logging.....	5,263	5,876	5,972	6,251	5,019	5,105	5,145	5,544
4	03	Fishing and aquaculture.....	1,670	1,294	1,130	1,113	1,082	1,114	1,137	1,232
5	B	Mining and quarrying.....	172,262	167,782	123,202	97,619	48,255	46,231	49,846	54,014
6	05	Mining of coal and lignite.....	134,655	138,795	101,680	78,030	29,943	25,371	30,244	33,729
7	06	Extraction of crude petroleum and natural gas.....	22,033	14,834	9,080	9,062	8,721	9,550	9,392	9,373
8	07-09	Mining of metal ores, other mining and quarrying.....	15,574	14,153	12,442	10,527	9,591	11,311	10,209	10,911
9	C	Manufacturing.....	2,379,239	2,279,271	2,357,486	2,343,810	2,237,268	2,277,921	2,249,863	2,320,095
10	10-12	Manufacture of food products, beverages and tobacco products.....	176,903	177,566	189,167	183,427	185,435	185,484	191,551	188,702
11	13-15	Manufacture of textiles, wearing apparel, leather.....	29,612	25,215	15,039	14,343	13,803	14,192	13,490	13,508
12	16	Manufacture of wood and products of wood and cork.....	25,582	45,264	61,942	67,750	43,133	58,377	68,689	70,548
13	17	Manufacture of paper and paper products.....	143,640	265,036	192,923	171,599	156,919	169,151	169,920	173,802
14	18	Printing and reproduction of recorded media.....	13,447	13,256	11,148	9,924	11,021	11,275	10,729	10,969
15	19	Manufacture of coke and refined petroleum products.....	406,554	387,451	347,270	344,630	333,025	344,464	328,533	343,171
16	19.1	Manufacture of coke oven products.....	50,385	25,764	26,251	24,693	22,987	23,645	25,051	25,224
17	19.2	Manufacture of refined petroleum products.....	356,168	361,688	321,018	319,937	310,038	320,819	303,482	317,948
18	20	Manufacture of chemicals and chemical products ³⁾	382,624	308,806	432,981	442,884	411,642	396,406	397,273	394,885
19	21	Manufacture of basic pharmaceutical products.....	42,285	17,737	12,998	15,562	17,390	16,777	14,442	13,739
20	22	Manufacture of rubber and plastic products.....	32,846	33,738	37,209	31,197	30,722	31,556	31,072	32,753
21	23	Manufacture of other non-metallic mineral products.....	263,095	210,729	235,336	245,398	235,598	236,086	238,517	236,862
22	23.1	Manufacture of glass and glass products.....	80,463	70,178	69,357	71,188	65,304	65,769	68,351	68,179
23	23.2	Manufacture of refractory products, cutting and finishing of stone.....	182,632	140,551	165,978	174,210	170,294	170,316	170,166	168,683
24	24	Manufacture of basic metals.....	657,936	584,009	608,054	609,778	591,477	596,974	588,395	637,081
25	24.1-3	Iron and steel.....	595,467	527,838	546,858	549,995	533,932	544,755	536,196	580,976
26	24.4	Manufacture of basic precious and non-ferrous metals.....	38,704	32,842	32,852	30,881	29,494	29,549	35,073	32,106
27	24.5	Casting of metals.....	23,764	23,330	28,344	28,902	28,051	22,670	17,126	24,000
28	25	Manufacture of fabricated metal products.....	55,326	52,288	54,470	54,099	51,502	53,243	49,304	51,751
29	26	Manufacture of computer, electronic and optical products.....	14,713	11,470	10,190	11,607	12,268	13,057	11,489	10,735
30	27	Manufacture of electrical equipment.....	11,775	10,770	12,318	11,563	10,765	10,792	11,103	11,954
31	28	Manufacture of machinery and equipment n.e.c.....	47,507	50,030	47,379	43,408	45,072	44,732	40,394	38,894
32	29	Manufacture of motor vehicles, trailers and semi-trailers.....	52,496	61,062	56,578	56,917	56,316	58,341	55,009	58,455
33	30	Manufacture of other transport equipment.....	9,733	9,191	10,539	8,773	9,266	10,225	9,212	9,276
34	31-32	Manufacture of furniture, other manufacturing.....	10,810	13,522	16,200	15,525	16,191	21,154	14,510	16,757
35	33	Repair and installation of machinery and equipment.....	2,355	2,131	5,745	5,426	5,724	5,635	6,229	6,251
36	D (35)	Electricity, gas, steam and air conditioning supply.....	3,254,947	3,651,106	3,627,702	3,578,351	3,656,388	3,681,904	3,479,433	1,949,593
37	35.1/3	Electric power generation, transmission and distribution, steam.....	3,239,982	3,640,173	3,625,598	3,576,044	3,652,940	3,662,095	3,456,946	1,926,306
38	35.2	Manufacture of gas; distribution of gaseous fuels through mains.....	14,965	10,932	2,103	2,307	3,448	19,810	22,487	23,287
39	E	Water supply; sewerage, waste management and remediation activities.....	75,746	66,097	71,327	70,565	66,003	80,424	73,366	73,155
40	36	Water collection, treatment and supply.....	482	552	1,108	1,029	998	1,028	1,056	1,066
41	37-39	Sewerage, waste collection, treatment and disposal activities.....	75,264	65,545	70,219	69,536	65,005	79,397	72,311	72,089
42	37	Sewerage.....	9,156	6,062	6,198	5,875	5,708	5,803	5,991	6,026
43	38-39	Waste collection, treatment and disposal activities.....	66,108	59,483	64,021	63,661	59,297	73,594	66,320	66,063
44	F	Construction.....	150,547	125,506	118,413	122,588	120,203	126,864	124,767	128,872
45	41-42	Construction of buildings, civil engineering.....	74,139	61,492	46,284	46,951	46,465	49,068	48,880	50,644
46	43	Specialised construction activities.....	76,408	64,014	72,128	75,637	73,738	77,796	75,888	78,228
47	G	Wholesale and retail trade; repair of motor vehicles and motorcycles.....	329,418	287,567	278,335	264,218	260,324	273,189	268,498	271,787
48	45	Wholesale and retail trade and repair of motor vehicles.....	41,932	29,841	34,190	26,806	26,975	29,092	28,197	28,040
49	46	Wholesale trade; except of motor vehicles and motorcycles.....	113,998	100,353	91,389	92,391	91,134	94,987	97,027	99,955
50	47	Retail trade; except of motor vehicles and motorcycles.....	173,489	157,373	152,756	145,021	142,215	149,110	143,274	143,792
51	H	Transportation and storage.....	786,868	1,075,900	1,138,344	1,084,410	1,138,962	1,148,405	1,118,657	1,151,962
52	49.1-2	Passenger rail transport, interurban, freight rail transport.....	32,098	23,706	8,362	8,030	7,536	7,837	7,138	7,510
53	49.3-5	Other passenger land transport, transport via pipeline.....	137,835	191,018	234,466	235,980	229,965	228,461	226,750	232,517
54	50	Water transport ⁴⁾	58,872	287,362	345,714	295,706	338,278	335,136	317,841	346,676
55	51	Air transport ⁴⁾	379,082	396,813	383,562	383,972	406,527	404,745	388,428	380,734
56	52	Warehousing and support activities for transportation.....	131,599	129,463	119,571	119,867	117,243	126,321	126,484	130,243
57	53	Postal and courier activities.....	47,382	47,538	46,668	40,855	39,413	45,905	52,016	54,281
58	I	Accommodation and food service activities.....	68,618	65,209	59,164	55,835	55,229	58,022	49,976	49,638
59	J	Information and communication.....	66,516	65,789	47,934	51,289	49,923	51,802	48,301	49,808
60	K	Financial and insurance activities.....	31,976	30,846	29,105	25,810	26,200	29,798	26,135	26,159
61	L	Real estate activities.....	12,713	16,085	15,470	14,919	15,194	15,630	14,955	15,708
62	M	Professional, scientific and technical activities.....	114,988	112,498	121,167	115,281	114,691	120,598	119,203	122,665
63	N	Administrative and support service activities.....	15,103	17,268	15,794	15,616	15,041	16,278	19,169	20,940
64	O	Public administration and defence; compulsory social security.....	121,046	115,144	113,134	101,132	96,686	100,082	95,524	102,471
65	P	Education.....	77,506	77,836	70,914	64,264	62,444	67,129	56,783	57,987
66	Q	Human health and social work activities.....	97,622	94,206	111,125	101,421	102,315	107,656	107,354	115,364
67	R-t	Other service activities.....	143,415	109,174	94,392	85,099	85,294	86,351	87,754	90,073
68		All industries.....	8,046,740	8,535,875	8,789,706	8,630,306	8,511,527	8,678,004	8,381,944	7,011,112
69		Private households (domestic consumption).....	3,296,368	3,274,146	3,285,596	3,699,601	3,061,855	3,186,915	2,863,512	2,960,053
70		All industries and private households (residents concept).....	11,343,108	11,810,022	12,075,302	12,329,906	11,573,382	11,864,919	11,245,456	9,971,165

¹ Classification of economic activities, 2008 edition.

² Includes secondary fuels not contained in the national energy balance 1995 to 2008.

³ Including biogas and generation plants of other energy producers.

⁴ Until 2009 energy consumption according the national greenhouse gas inventory (domestic concept).