

Questionnaire on electricity and natural gas device 2011/12

Please return the questionnaire by 2nd March 2012 at the latest!

For questions, please contact Ms Manuela Strasser or Mr Walter Frech, workdays from 8:00 to 16:00 under the telephone number (01) 71128-7235 resp. (01) 71128-7254.

General information on the electricity and gas consumption in your household

section 1: refrigerators, freezers

section 2: stove, oven, washing machine, laundry dryer, dishwasher

section 3: kitchenware, domestic appliance, cooling, air conditioning equipment, additional heating

section 4: office equipment, consumer electronics, other relevant current consumers

section 5: illumination

section 6: space heating and hot water generation

ID:

Basic data on your household

G1 Please quote your last name and your telephone number:

last name

telephone number

Last name and telephone number alleviate queries in the frame of the evaluation. This information is treated [confidentially](#).

G2 How many people live at present regularly in your household, in age groups?

age group

<= 12 years

13-18 years

19-65 years

> 65 years

quantity

G3 What is the legal position of your household compared to your residence?

☐ home ownership

☐ main rental

☐ free of charge as a relative of the home owner

☐ subtenancy

☐ condominium

☐ other legal position

☐ unknown / I don't know

G4 Please declare the size of the apartment (floor space) and the number of rooms:

floor space

 m²

number of rooms*

 rooms

* Please quote the number of living and bed rooms (including the kitchen) with more than 4m².

G5 Please declare the building size (number of apartments in the building):

☐ 1 apartment

☐ 3 to 9 apartments

☐ 2 apartments

☐ 10 to 19 apartments

☐ 20 apartments and more

G6 When was the house you live in, erected? (please estimate)

☐ before 1960

☐ 2001 or later

☐ between 1961 and 1990

→ please quote the year:

☐ between 1991 and 2000

☐ unknown / I don't know

General information on the electricity and gas consumption in your household

H1 Please provide information on the annual electricity consumption and the annual electricity charges excluding VAT according to your last electricity bill**:

current consumption meter 1 kWh electricity costs 1 Euro

if available - meter 2 (e.g. off-peak storage heating)**
current consumption meter 2 kWh electricity costs 2 Euro
reading
period of your electricity bill / 20 month/year to / 20 month/year

* Please quote the annual electricity charges excluding VAT.

** If you have 2 electric meter quoted on your electricity bill (e.g. off-peak current, electricity on interruptible basis), please give information for both meter. If you receive due to an amalgamation of flats 2 separate electricity bills, please give data for both of them.

H2 Do you use (to some extent) an electric space heater?

☐ yes, exclusively ☐ yes, to some extent ☐ no

H3 Do you use (to some extent) an electric water heater?

☐ yes, exclusively ☐ yes, to some extent ☐ no

H4 Do you use (to some extent) solar power?

☐ yes, for hot water ☐ yes, for hot water and heating ☐ no

H5 Do you have a (natural) gas connection in your household?

☐ yes ☐ no ⇒ **Please proceed to E1 (refrigerators)**

H6 Please provide information on the annual gas consumption and the annual gas charges excluding VAT according to your last gas bill:

gas consumption kWh gas costs Euro

** Please quote the annual gas charges excluding VAT.

H7 Please provide information on how you use (natural) gas:

☐ heating ☐ hot water ☐ cooking ☐ baking

section 1: refrigerators, freezers

E1 How many refrigerators (with or without icebox, cooling/freezing combinations too) are actually in operating state? quantity of refrigerators:

Please provide further informations on your refrigerator in "refrigerator 1".
If you have more than 1 refrigerator, please provide the relevant informations in "refrigerator 2" and "refrigerator 3".

	equipment	location	age	energy class* (if known) A to G
refrigerator 1	☐ without icebox ☐ with icebox ☐ fridge-freezer	☐ kitchen ☐ pantry ☐ cellar ☐ other	☐ under 5 years ☐ 5 - 10 years ☐ over 10 years ☐ unknown	
refrigerator 2	☐ without icebox ☐ with icebox ☐ fridge-freezer	☐ kitchen ☐ pantry ☐ cellar ☐ other	☐ under 5 years ☐ 5 - 10 years ☐ over 10 years ☐ unknown	
refrigerator 3	☐ without icebox ☐ with icebox ☐ fridge-freezer	☐ kitchen ☐ pantry ☐ cellar ☐ other	☐ under 5 years ☐ 5 - 10 years ☐ over 10 years ☐ unknown	

	capacity cooling section (specifications e.g. from instruction manual; if unknown please estimate)	capacity freezing section (specifications e.g. from instruction manual; if unknown please estimate)	inside dimension cooling section	inside dimension freezing section
	in liters	in liters	width / height in cm	width / height in cm
refrigerator 1	liter	liter		
refrigerator 2	liter	liter		
refrigerator 3	liter	liter		

* energy class: the EU energy label splits the energy consumption of refrigerators in energy classes from A+++, A++, A+, and A to G, whereas devices with energy class A+++ have the lowest energy consumption.

E2 How many freezers (chest freezers) are actually in operating state? quantity of freezers:

Please provide further informations on your freezer/chestfreezer in "freezer 1".
If you have more than 1 freezer, please provide the relevant informations in "freezer 2" and "freezer 3".

	equipment	location	age	energy class* (if known) A to G
freezer 1	☐ freezer ☐ chest freezer	☐ kitchen ☐ pantry ☐ cellar ☐ other	☐ under 5 years ☐ 5 - 10 years ☐ over 10 years ☐ unknown	
freezer2	☐ freezer ☐ chest freezer	☐ kitchen ☐ pantry ☐ cellar ☐ other	☐ under 5 years ☐ 5 - 10 years ☐ over 10 years ☐ unknown	
freezer 3	☐ freezer ☐ chest freezer	☐ kitchen ☐ pantry ☐ cellar ☐ other	☐ under 5 years ☐ 5 - 10 years ☐ over 10 years ☐ unknown	

	capacity in liters (please estimate if unknown)	inside dimension width / height in cm
freezer 1	liter	
freezer 2	liter	
freezer 3	liter	

* energy class: the EU energy label splits the energy consumption of freezers in energy classes from A+++, A++, A+, and A to G, whereas devices with energy class A+++ have the lowest energy consumption.

section 2: stove, oven, washing machine, laundry dryer, dishwasher

E3

Please give information on the stove and oven used in your household.

Please provide information on your stove and oven under "stove 1" and "oven 1". If you have more than one stove/oven, provide information under "stove 2"/"oven 2".

	energy	sort of cooking place	age	stand by (clock timer/ electronic display) available
stove 1	☐ electric ☐ gas ☐ other (e.g. wood)	☐ casting cooking plate ☐ Ceran cooktop ☐ induction hob ☐ gas cooktop	☐ under 5 years ☐ 5 - 10 years ☐ over 10 years ☐ unknown	☐
stove 2	☐ electric ☐ gas ☐ other (e.g. wood)	☐ casting cooking plate ☐ Ceran cooktop ☐ induction hob ☐ gas cooktop	☐ under 5 years ☐ 5 - 10 years ☐ over 10 years ☐ unknown	☐

	energy	energy class* (if known)	age	stand by (clock timer/ electronic display) available
oven 1	☐ electric ☐ gas ☐ other (e.g. timber)	A to G 	☐ under 5 years ☐ 5 - 10 years ☐ over 10 years ☐ unknown	☐
oven 2	☐ electric ☐ gas ☐ other (e.g. timber)	A to G 	☐ under 5 years ☐ 5 - 10 years ☐ over 10 years ☐ unknown	☐

* energy class: the EU energy label splits the energy consumption of baking ovens in energy classes from A+++, A++, A+, and A to G, whereas devices with energy class A+++ have the lowest energy consumption.

E4

Please provide information on the available machines for washing and drying laundry.

	capacity (in kg)	energy class* (if known)	age	regulation of drying process with humidity sensor (automatic)
washing machine 1	☐ under 4,5 kg ☐ 4,5 - 5,5 kg ☐ over 6 kg ☐ unknown	A to G 	☐ under 5 years ☐ 5 - 10 years ☐ over 10 years ☐ unknown	-
washing machine 2	☐ under 4,5 kg ☐ 4,5 - 5,5 kg ☐ over 6 kg ☐ unknown	A to G 	☐ under 5 years ☐ 5 - 10 years ☐ over 10 years ☐ unknown	-
washing dryer**	☐ under 4,5 kg ☐ 4,5 - 5,5 kg ☐ over 6 kg ☐ unknown	A to G 	☐ under 5 years ☐ 5 - 10 years ☐ over 10 years ☐ unknown	☐
tumble- dryer**	☐ under 4,5 kg ☐ 4,5 - 5,5 kg ☐ over 6 kg ☐ unknown	A to G 	☐ under 5 years ☐ 5 - 10 years ☐ over 10 years ☐ unknown	☐

* energy class: the EU energy label splits the energy consumption of washing and drying machines in energy classes from A+++, A++, A+, and A to G, whereas devices with energy class A+++ have the lowest energy consumption.

** A distinction is made between drying machines: washing dryers: combination of washing machine and tumble dryer; in the drying process only the half-capacity can be used; tumble dryer: only drying function; the whole capacity can be used.

E5 Please provide information on the dishwasher(s) used in your household:

	width	energy class* (if known)	age	separate hot water connection available
dishwasher 1	☐ 45 cm width	A to G	☐ under 5 years	☐
	☐ 60 cm width		☐ 5 - 10 years	
			☐ over 10 years	
			☐ unknown	
dishwasher 2	☐ 45 cm Breite	A to G	☐ under 5 years	☐
	☐ 60 cm Breite		☐ 5 - 10 years	
			☐ over 10 years	
			☐ unknown	

* energy class: the EU energy label splits the energy consumption of dishwashers in energy classes from A+++ , A++ , A+ , and A to G, whereas devices with energy class A+++ have the lowest energy consumption.

section 3: kitchenware, domestic appliance, cooling, air condit., add. heating

E6 Please provide information on kitchenware and domestic appliance used in your household

Please record the quantity of available devices, wattage and stand by modus when indicated.

	quantity	maximum power mainframe* watt	stand by (clock timer/ electronic display) available
microwave			☐
bake-/ grill automat / compact oven			☐
steamer			☐
filter coffee machine			☐
coffee pod, espresso mach.; autom. coffee syst.			☐
electric kettle			
electric grill			
electric iron / ironing station / ironing press			
vacuum cleaner			
hairdryer			
extractor hood			
toaster			
deep fat fryer			
kitchen machine			
blender			
immersion blender			
hand-held blender			
other 1**			
other 2**			

* If you have more than one device in use, please record the primarily used one; information on the wattage can be found in the user manual or on the identification plate directly on the device.

** Other: Record other regularly used electronic equipment, that is not listened above (e.g. flour mill, juicer, egg boiler).

E7 Information on cooling devices and air conditioning systems*:

Please record the quantity of available devices and energy classes when indicated.

	quantity	energy class* (if known) A to G
devices without cooling		
humidifier		-
dehumidifier		-
ventilator		-
air conditioning (with cooling)		
mobile air conditioner		
air conditioner, fix installed		
other		

* air recirculation system with heat exchanger : please provide information in **E17!**

** energy class: the EU energy label splits the energy consumption of air conditioning systems in energy classes from A+++ , A++ , A+ , and A to G, whereas devices with energy class A+++ have the lowest energy consumption.

E8 Which additional electric heater* do you use? (e.g. auxillary heater in bathroom or WC?)

Please quote the quantity of the available devices and the heated area.

	quantity	heated area in m ² (estimation)
radiant heater		
electric radiator with power plug		
electric fan heater		
installed electric heating system		
electric towel dryer		
other _____		

*electric heating systems with a permanently integrated heating element as main heating installation and air recirculation systems with heat exchanger: please provide information in **E17**!

section 4: office equipment and consumer electronics, other relevant current consumers**E9 Informations on your office equipment:**

Please record the quantity of office equipments used in your household.

	quantity
PC	
laptop / notebook	
CRT display	
flat Screen (TFT)	
multifunctional device (scanner / printer / copier)	
inkjet printer	
laser printer	
scanner	
external modem, cable modem (e.g. Chello)	
external hard drive	
active loudspeaker boxes	
other 1 _____	
other 2 _____	

Do you have an activated screensaver on your PC or monitor?

☐ yes ☐ no ☐ I don't know

Do you have an activated energy saving feature / sleep mode on your PC or monitor?

☐ yes ☐ no ☐ I don't know

E10 Informations on your communication devices (excl. cell phone)

Please record the quantity of communication devices used in your household.

	quantity
telephone <u>connected to the mains supply</u> * (e.g. cordless basis station)	
answering machine (separate)	
extension with connection for power supply	
fax	
combination devices (e.g. integrated fax, answering machine)	
other 1 _____	
other 2 _____	

* Please provide the information only, when the telephone is connected to the mains supply (e.g. telephone with integrated answering machine, cordless telephone set).

E11**Informations on consumer electronics used in your household**

Please record the quantity of consumer electronics used in your household.

radio / portable device
 clock radio
 HIFI- /audio equipment
 TV - picture tube
 TV - LCD / LED
 plasma TV
 TV- video projector
 DVB-T reciever
 satellite receiver
 antenna amplifier / digital antenna
 videorecorder
 DVD Recorder, DVD Player, CD Player
 Blue Ray Player
 game console (e.g. Playstation)
 other 1 _____
 other 2 _____

quantity

E12**Informations on charging devices used in your household**

Please record the quantity of charging devices and the normal use.

mobile charger
 battery charger
 battery charger for notebooks
 charger for camera
 charger for instruments
 charger for hand-held vacuum cleaner
 charger for electrical toothbrush
 charger for electric shaver
 other 1 _____
 other 2 _____

Quantity

Normal use
per week*

	WK.
	WK.
	WK.
	WK.
	WK.
	WK.
	WK.
	WK.
	WK.
	WK.
	WK.

* Please record the normal use per week (wk.); sum devices of the same kind, e.g. 7* use of mobile charges 1 and 2 per week.

E13**Informations on other relevant current consumers used in your household**

Which of the following equipment do you use?

waterbed
 aquarium
 indoor fountain
 electric lawn mower
 sauna
 infrared sauna
 swimming pool
 workshop if bigger consumer (e.g. regular use of circular saw or the like)
 hobby if bigger consumer (e.g. regularly practise with electric guitar)
 other 1 _____
 other 2 _____

Quantity

section 5: illumination

E14 Please quote the quantity of available rooms in your accommodation / house (incl. all adjoining rooms): rooms

E15 Do you use motion sensors in your household?
Please record the quantity. quantity

E16 Please quote the quantity and rated power (watts) of lamps per room / per area used in your household. **Sum rarely used rooms and record them under "other rooms".**

Due to a wide variety of lamps only the most common wattages are quoted. In case of differing wattage choose the lamp with the most similar wattage (e.g. record a 7 watt energy saving lamp in "8 watt").

Please estimate, if you don't know the exact wattage of a lamp!

					
	light bulb	energy saving lamp	low-voltage halogen lamp	fluorescent tubes or high-voltage halogen spotlights	LEDs: spots or light bulbs
	watt quantity	watt quantity	watt quantity	watt quantity	watt quantity
kitchen	25 W	4 W	10 W	18 W	3 W
	40 W	8 W	25 W	36 W	5 W
	60 W	12 W	35 W	58 W	7 W
	75 W	16 W	50 W	150 W	10 W
	100 W	22 W		300 W	
living room	25 W	4 W	10 W	18 W	3 W
	40 W	8 W	25 W	36 W	5 W
	60 W	12 W	35 W	58 W	7 W
	75 W	16 W	50 W	150 W	10 W
	100 W	22 W		300 W	
(main) bedroom	25 W	4 W	10 W	18 W	3 W
	40 W	8 W	25 W	36 W	5 W
	60 W	12 W	35 W	58 W	7 W
	75 W	16 W	50 W	150 W	10 W
	100 W	22 W		300 W	
further room 1* name: _____	25 W	4 W	10 W	18 W	3 W
	40 W	8 W	25 W	36 W	5 W
	60 W	12 W	35 W	58 W	7 W
	75 W	16 W	50 W	150 W	10 W
	100 W	22 W		300 W	
further room 2* name: _____	25 W	4 W	10 W	18 W	3 W
	40 W	8 W	25 W	36 W	5 W
	60 W	12 W	35 W	58 W	7 W
	75 W	16 W	50 W	150 W	10 W
	100 W	22 W		300 W	
further room 3* name: _____	25 W	4 W	10 W	18 W	3 W
	40 W	8 W	25 W	36 W	5 W
	60 W	12 W	35 W	58 W	7 W
	75 W	16 W	50 W	150 W	10 W
	100 W	22 W		300 W	

continued on the next page

	light bulb		energy saving lamp		low-voltage halogen lamp		fluorescent tubes or high-voltage halogen spotlights		LEDs: spots or light bulbs	
	Watt	Quantity	Watt	Quantity	Watt	Quantity	Watt	Quantity	Watt	Quantity
further room 4* name:	25 W		4 W		10 W		18 W		3 W	
	40 W		8 W		25 W		36 W		5 W	
	60 W		12 W		35 W		58 W		7 W	
	75 W		16 W		50 W		150 W		10 W	
	100 W		22 W				300 W			
bathroom / WC	25 W		4 W		10 W		18 W		3 W	
	40 W		8 W		25 W		36 W		5 W	
	60 W		12 W		35 W		58 W		7 W	
	75 W		16 W		50 W		150 W		10 W	
	100 W		22 W				300 W			
anterooms	25 W		4 W		10 W		18 W		3 W	
	40 W		8 W		25 W		36 W		5 W	
	60 W		12 W		35 W		58 W		7 W	
	75 W		16 W		50 W		150 W		10 W	
	100 W		22 W				300 W			
cellar	25 W		4 W		10 W		18 W		3 W	
	40 W		8 W		25 W		36 W		5 W	
	60 W		12 W		35 W		58 W		7 W	
	75 W		16 W		50 W		150 W		10 W	
	100 W		22 W				300 W			
outdoor area	25 W		4 W		10 W		18 W		3 W	
	40 W		8 W		25 W		36 W		5 W	
	60 W		12 W		35 W		58 W		7 W	
	75 W		16 W		50 W		150 W		10 W	
	100 W		22 W				300 W			
Sum the illumination of rarley used, not already mentioned rooms and record them here :										
other rooms	25 W		4 W		10 W		18 W		3 W	
	40 W		8 W		25 W		36 W		5 W	
	60 W		12 W		35 W		58 W		7 W	
	75 W		16 W		50 W		150 W		10 W	
	100 W		22 W				300 W			

* Please use an unambiguous designation for each room to enable comparison with the electricity and gas journal (e.g. nursery, bedroom 2, study, cabinet etc.) and use this designation for completion of the electricity and gas journal!

section 6: space heating and hot water generation

E17 Informations on your space heating

E17.1 You live in an apartment building and this building is supplied by a house central heating system* or with district heat? (thus, the heating system is outside your apartment):

- ☐ yes, house central heating ⇒ please proceed to **E18 (hot water)** ☐ No
☐ yes, district heat ⇒ please proceed to **E18 (hot water)**

E17.2 Which of the following heating systems do you primarily use for heating your apartment/single family house/two family house?

- ☐ central heating /heating system covering one floor** in your apartment/single family house/two family house
- ☐ gas convector heating ** ⇒ please proceed to **E18 (hot water)**
☐ electric heating, permanently installed radiator** ⇒ please proceed to **E18 (hot water)**
☐ off-peak storage heating** ⇒ please proceed to **E18 (hot water)**
☐ individual stove heating ** ⇒ please proceed to **E18 (hot water)**
☐ other _____ ⇒ please proceed to **E18 (hot water)**

E17.3 Which energy source do you primarily use for heating your central heating system/heating system covering one floor? Please make only one entry!

- ☐ natural gas ☐ biomass wood ⇒ please proceed to **E17.5**
☐ heating oil ☐ heat pump ⇒ please proceed to **E18 (hot water)**
☐ biomass pellets ⇒ please proceed to **E17.5** ☐ exhaust air heat exchanger ⇒ please proceed to **E18 (hot water)**
☐ other _____ ⇒ please proceed to **E18 (hot water)**

E17.4 Is your central-heating boiler a wall therme or does it stand on the floor (free-standing boiler)? What is the

- ☐ wall therme age of your boiler ☐ under 5 years ☐ over 10 Jahre
☐ free-standing boiler (estimation): ☐ 5 - 10 years ☐ unknown

E17.5 Is your central-heating boiler based on a

- ☐ no ☐ yes ☐ I don't know

* House central heating: central heating system in apartment buildings, outside the apartment but inside the building.

* District heat (district heating): heating system for heating several (many) buildings.

** Central heating system/heating system covering one floor: heat supply comes from a central heating boiler (therm) located in the flat, e.g. the bathroom or in the kitchen; in single-family homes or apartment buildings also in the cellar.

** Gas convector heating: the apartment is primarily heated by several gas convectors (not therm!).

** Electric heating: the apartment is primarily heated by permanently connected electrical heaters.

** Off-peak storage heating: the apartment is heated by an electrical off-peak storage heating (separate electricity bill).

** Individual stove heating: the individual rooms of the apartment are primarily heated by single ovens (not boilers) - independent of the fuel used.

*** Condensing technology uses the energy (heat) contained in the waste gas by condensation exhaust fumes.

E18 Informations on hot water generation

E18.1 How is the hot water generation primarily carried out? Please make only one entry!

- ☐ house-/apartment heating acc. to E17 ☐ partly solar, if necessary by heating acc.
☐ electric boiler ☐ partly solar, if necessary electric ("heating element")
☐ own heat pump ☐ instantaneous gas-fired heater
☐ 100% Solar ☐ other _____

E18.2 Please provide information on the storage volume and the water temperature of your main boiler:

- ☐ no boiler available (instantaneous water heater) ⇒ please proceed to **E18.3**

Storage volume

- ☐ less than 100 liter
☐ 100 to 300 liter
☐ more than 300 liter
☐ unknown

Water temperature

- ☐ low (I or < 55°C)
☐ medium (II or 55°C)
☐ high (III or > 60°C)
☐ variabel
☐ unknown

E18.3 Are there further possibilities for hot water heating?

- ☐ yes, instantaneous water heater current ☐ yes, namely: _____
☐ yes, undercounter boiler current ☐ no
☐ yes, instantaneous water heater gas