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# SURVEY ON FINAL ENERGY CONSUMPTION IN HOUSEHOLDS, 2009

## GENERAL INFORMATION

The Survey on Final Energy Consumption in Households is conducted for the first time. It aims at the collection of data regarding energy consumption with respect to the demographic characteristics of households, the type of final end use categories (heating, cooling, cooking, hot water, electrical appliances) and the energy sources (fuels, electricity, renewable) that households use in Cyprus.

The Survey is partly funded by the Statistical Office of the European Union (Eurostat). The questionnaire has been developed on the basis of a common paper of recommended definitions and methodological guidelines that has been prepared by Eurostat. The objective of the survey is to further develop energy statistics, within the framework of the Regulation (EC) No. 1099/2008.

The collection of data is carried out in accordance with the Statistics Law, No. 15(I)/2000. Refusal to provide the information requested or submission of fake, incomplete or inaccurate data renders the respondent liable to the consequences of the Law.

The Statistical Service is obliged under the Statistics Law to treat all information obtained as confidential. Your responses will be used solely for statistical purposes and any information publicly released will be in such a form that does not personally identify you.

Name and Surname of house	hold head:
Municipality/Community:	District:
Street:	Number: Flat: Post Code:
Home Tel.:	Work Tel.: Mobile phone:

#### I. CHARACTERISTICS OF THE DWELLING

#### 1. Is this dwelling your permanent residence?

- YES
- NO

**<u>Note for the interviewer</u>**: If the dwelling is not the permanent residence of the household (a dwelling is considered as permanent if it is occupied for at least six months per year by the household)  $\longrightarrow$  end of interview.

1

2

# 2. Professional activity carried out within the residence area by the household and results to the consumption of important amounts of energy:

None
Agriculture
Manufacturing
Other professional/economic activity

**<u>Note for the interviewer</u>**: If the answer to question 2 is one of the options 2, 3, 4 it should be clarified to the interviewed person that the consumption of energy due to a professional activity carried out within the residence area **should not** be included in his/her answers to the rest of the questions.

#### 3. Type of residence:

- Single house/Single dwelling
- Semi-detached or doublex
- Apartment
- Row House
- Other (e.g. back yard house)



### 4. Construction floors of the residence:



#### 5. The household's residence is:

- Owned 1 - Rented 2 - Provided for free 3

# 6. Year of building completion:

-	Before 1971	1
-	1971-1980	2
-	1981-1990	3
-	1991-2000	4
-	2001-2003	5
-	2004-2006	6
-	2007- forward	7

## 7. Area of residence in square metres:

-	Less than 51	1
-	51-100	2
-	101-150	3
-	151-200	4
-	201-250	5
-	251-300	6
-	301-350	7
-	Over 350	8

8. Area of residence which was heated during the cold season of the year 2009 (period 1/1/09 until 31/12/09) in square metres:

-	Less than 51	1
-	51-100	2
-	101-150	3
-	151-200	4
-	201-250	5
-	251-300	6
-	301-350	7
-	Over 350	8
	Exact area in square metres	

9. Area of residence in which air conditioning was used for cooling during the hot season of the year 2009 (period 1/1/09 until 31/12/09) in square metres:

-	Less than 51	1
-	51-100	2
-	101-150	3
-	151-200	4
-	201-250	5
-	251-300	6
-	301-350	7
-	Over 350	8
	Exact area in square metres	

# 10. Heat insulation of residence: Note whether your residence is equipped with any form of heat insulation listed below and the corresponding material used:

				Material
		YES	NO	
-	Heat insulation of external walls	1	2	1 2 3 4 5
-	Loft/roof heat insulation	1	2	1 2 3 4 5
-	Ground floor heat insulation	1	2	1 2 3 4 5
-	Open floor heat insulation	1	2	1 2 3 4 5
-	Other ()	1	2	1 2 3 4 5

#### Note for heat insulating materials: 1 to 5:

1: Polystyrene 2: Glass wool 3: Rock wool 4: Thermal insulation bricks 5: Other

## 11. Glazing in the biggest part of the residence is:

-	Single	1
-	Single with sun blocking blinds	2
-	Double	3
-	Double with sun blocking blinds	4
-	Triple	5
-	Triple with sun blocking blinds	6

## **II. SPACE HEATING**

# 12. Heating of residence: Do you use any kind of system/equipment in order to heat some space of your residence during the cold season?

-	YES	1
-	NO	2

<u>Note for the interviewer</u>: If the answer to question 12 is 'NO' proceed directly to part III, question 30.

#### 13. The main type of heating equipment/system used in your residence is:

-	Central heating system	1
-	Solar central heating system	2
-	Geothermal system (heat pumps)	3
-	Split units	4
-	Storage heaters (EAC electric heating)	5
-	Fireplace	6
-	Portable heater	7
-	Stove (non portable metallic)	8
-	Other ()	9

# 14. The energy source used for the main type of heating equipment/system in the residence is:

-	Electricity	1
-	Heating oil (Gasoil)	2
-	Kerosene	3
-	Liquefied Petroleum Gas (LPG)	4
-	Biomass	5
-	Other ()	6

<u>Note for the interviewer</u>: If the answer to question 13 is one of the options 5 to 9 proceed to question 20. If the answer is option 4 proceed to question 16.

15. In case that the main type of heating system you declared in question 13 is one of the options 1 to 3 please state the technology used:

		YES	NO	
-	Wall heaters	1	2	
-	Floor heating	1	2	1

16. In case that the main type of heating system you declared in question 13 is one of the options 1 to 4 please state whether it is:

-	Individual	1	
-	Collective	2	

### 17. Is your main heating system equipped with a thermostat?

-	YES	1
-	NO	2

Note for the interviewer: If the answer to question 17 is 'NO' proceed to question 20.

### 18. Is your main heating system equipped with?

-	A central thermostat	1	
_	Multiple thermostats in different rooms	2	

### 19. Is/are the thermostat/s of your main heating system programmable or not?

- Programmable
- Non programmable.

### 20. Age of main heating system in years:

<=5	6-10	11-15	16-20	21-25	>25
1	2	3	4	5	6

1

2

### 21. How many months was your main heating system in operation during the period 1/1/09 to 31/12/09?



2

22. Average daily hours of operation of the main heating system during the period of use:

<=2	3-5	6-8	9-11	12-14	15-17	>17
1	2	3	4	5	6	7

23. Do you use any supplementary space heating equipment beyond your main heating system?



**Note for the interviewer:** If the answer to question 23 is 'NO' proceed to question 27.

# 24. In case you use any supplementary space heating equipment please declare it below:

-	Central heating system	1
-	Solar central heating system	2
-	Geothermal system (heat pumps)	3
-	Split units	4
-	Storage heaters (EAC electric heating)	5
-	Fireplace	6
-	Portable heater	7
-	Stove (non portable metallic)	8
-	Other ()	9

# 25. The energy source used for the supplementary type of heating equipment in the residence is:

-	Electricity	1
-	Heating oil (Gasoil)	2
-	Kerosene	3
-	Liquefied Petroleum Gas (LPG)	4
-	Biomass	5
-	Other ()	6

**<u>Note for the interviewer</u>**: If the answer to question 24 is one the options 4 to 9 proceed to question 27.

26. In case that the supplementary type of heating system you declared in question 24 is one of the options 1 to 3 please state the technology used:

		YES	NO	
-	Wall heaters	1	2	
-	Floor heating	1	2	]

27. Annual consumption and expenditure for space heating purposes (for the period 1/1/09 to 31/12/09):

				Consumption		Expenditure in €
		YES	NO			
1	Electricity	1	2		(KWh)	
2	Heating oil (Gasoil)	1	2		(Litres)	
3	Kerosene	1	2		(Litres)	
4	Liquefied Petroleum Gas (LPG)	1	2		(Kg)	
5	Biomass	1	2		(Kg)	
6	Other ()	1	2		()	

<u>Note for the interviewer</u>: If the household **does not** use biomass (see question 27) proceed directly to part III, question 30.

28. In case you use biomass for heating purposes, state the kind of biomass you have used during the period 1/1/09 to 31/12/09:



<u>Note for the interviewer</u>: If the household **does not** use wood (see question 28) proceed directly to part III, question 30.

29. In case you have used wood for heating purposes during the period 1/1/09 to 31/12/09 state whether some quantity was supplied for free (from forests, trees etc) and the corresponding amount in kilograms:



#### **III. HOT WATER**

#### 30. System used for providing hot water:

				Age
		YES	NO	
1	System connected with central heating	1	2	
2	Solar heater	1	2	
3	Individual electric heater with storage tank	1	2	
4	Individual LPG (gas) heater with storage tank	1	2	
5	Electric continuous-flow water heater	1	2	
6	LPG (gas) continuous-flow water heater	1	2	
7	Other ()	1	2	
<u>Note fo</u>	<u>r age of hot water system:</u> 1 to 6 Age in years:			
1	<b>1:</b> <=5 <b>2:</b> 6-10 <b>3</b> : 11-15 <b>4:</b> 16-20 <b>5:</b> 21-2	5	<b>6:</b> >25	]
31. Is y	our residence equipped with hot water storage tank/s?			
-	YES 1			

- NO

<u>Note for the interviewer</u>: If the answer to question 31 is 'NO' proceed directly to part IV, question 33.

2

### 32. Total capacity of hot water storage tank in litres:

<100	100-149	150-199	200-249	250-299	>=300
1	2	3	4	5	6
IV. AIR CO	ONDITIONING				

33. Air conditioning: Do you use any system/units for cooling some space in your residence during the hot season?

1

2

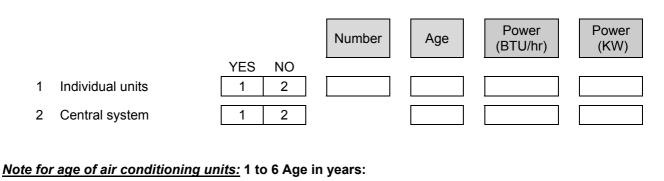
-	YES	

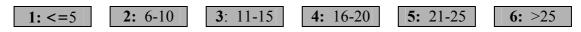
- NO

<u>Note for the interviewer</u>: If the answer to question 33 is 'NO' proceed directly to part V, question 39.

- 10 -

## 34. Technical characteristics of air conditioning units:





<u>Note:</u> In case 1 (Individual units) **Number** is defined as the total number of units within the residence, **Age** is defined as the age of the older unit in the residence and **Power** is defined as the total power of all the units within the residence measured in BTU/hr or KW.

<u>Note for the interviewer</u>: If the household is equipped with a central air conditioning system (see question 34) continue with question 35, otherwise if it is equipped only with individual units proceed to question 37.

1

2

1

2

### 35. Is the central air conditioning system equipped with a thermostat/s?

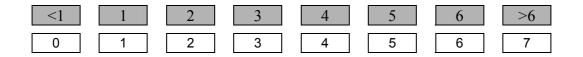
- YES
- NO

Note for the interviewer: If the answer to question 35 is 'NO' proceed to question 37.

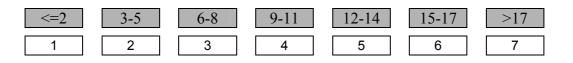
#### 36. Is the thermostat of the central air conditioning system programmable or not?

- Programmable
- Non programmable

# 37. Number of months that air conditioning was used for cooling during the period 1/1/09 to 31/12/09:



# 38. Average daily hours of operation of air conditioning for cooling during the period of use:



# V. COOKING EQUIPMENT

# 39. Equipment used for cooking, average time of use per week (in minutes) and age of equipment:

			Minutes of use	Age
		YES NO		
1	Electric cooker	1 2		
2	LPG (gas) cooker	1 2		
3	Electric oven	1 2		
4	LPG (gas) oven	1 2		
5	Microwave	1 2		
6	Cooker hood	1 2		
7	Toaster	1 2		
8	Coffee pot	1 2		
9	Electric kettle	1 2		
10	Outdoor barbecue grill	1 2		
11	Other ()	1 2		

### Note for age of cooking equipment: 1 to 8 Age in years:

1:<=2	<b>2:</b> 3-4	<b>3</b> : 5-6	<b>4:</b> 7-8	<b>5:</b> 9-10	<b>6:</b> 11-15	7:16-20	<b>8:</b> >20

# 40. Energy source used for cooking and corresponding consumption during the year 2009 (period 1/1/09 to 31/12/09):

			Consumption	
	YES	NO		
Electricity	1	2		
Liquefied Petroleum Gas (LPG)	1	2		(Kg)
Wood	1	2		(Kg)
Coal	1	2		(Kg)
Other ()	1	2		( )
	Liquefied Petroleum Gas (LPG) Wood Coal	Electricity1Liquefied Petroleum Gas (LPG)1Wood1Coal1	Electricity12Liquefied Petroleum Gas (LPG)12Wood12Coal12	YES     NO       Electricity     1       Liquefied Petroleum Gas (LPG)     1       Vood     1       Question     1       Liquefied Petroleum Gas (LPG)     1

# 41. Electrical appliances: Number and weekly time of use (in hours):

				Number	Hours of use
1	Fridge-Refrigerator	YES	NO 2	[]	
2	Fridge (with no refrigerator)	1	2		
3	Refrigerator (individual)	1	2		
4	Water cooler	1	2		
5	Plates washing machine	1	2		
6	Clothes washing machine (no dryer)	1	2		
7	Clothes dryer (individual)	1	2		
8	Clothes washing/drying machine	1	2		
9	Electric iron	1	2		
10	Vacuum cleaner	1	2		
11	Television	1	2		
12	VCR or DVD player	1	2		
13	Stereo	1	2		
14	Satellite dish	1	2		
15	Computer	1	2		
16	Printer	1	2		
17	Modem	1	2		
18	Fan	1	2		
19	Regular incandescent light lamps	1	2		
20	Fluorescent light lamps	1	2		
21	Other ()	1	2		
22	Other ()	1	2		

# 42. Do you usually keep your electrical appliances on standby mode?

-	YES	1
-	NO	2

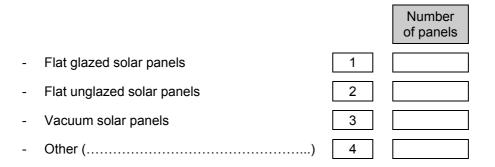
## **VII. PENETRATION OF RENEWABLE ENERGY SOURCES**

43. Is your residence equipped with solar panels (either for hot water or heating use)?

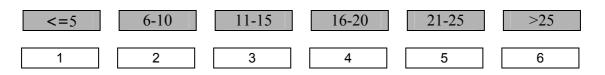
-	YES	1	
_	NO	2	

Note for the interviewer: If the answer to question 43 is 'NO' proceed to question 46.

44. In case the residence is equipped with solar panels please distinguish their kind and number:



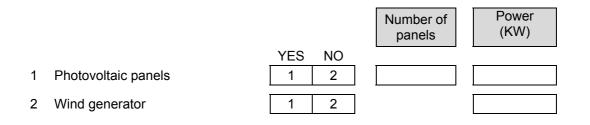
45. In case the residence is equipped with solar panels, please state their age (in years):



46. Is your residence equipped with a ground heat pump (geothermic) or a water heat pump (e.g. connected to a well);

- YES 1 - NO 2

47. Please state if your residence is equipped with any of the renewable equipment listed below and declare their technical characteristics.



#### **VIII. CONSUMPTION AND EXPENDITURE FOR ENERGY PRODUCTS**

# 48. Annual consumption of energy and expenditure by energy product (during the period 1/1/09 to 31/12/09):

					Consumption		Expenditure in €
		YES	NO				
1	Electricity	1	2	[		(KWh)	
2	Heating oil (Gasoil)	1	2			(Litres)	
3	Kerosene	1	2	[		(Litres)	
4	Liquefied Petroleum Gas (LPG)	1	2	[		(Kg)	
6	Biomass	1	2	[		(Kg)	
7	Coal	1	2			(Kg)	
8	Other ()	1	2	[		()	

### **IX. HOUSEHOLD CHARACTERISTICS**

49. Household size: Please state the number of persons living in the residence:



50. Composition of the household by age groups: Please state how many persons of the household belong to each of the categories listed below (age groups 1 to 4)

1: <18	<b>2:</b> 18-24	<b>3:</b> 25-64	<b>4:</b> >=65

51. Details on the household head: Declare the age and circle the corresponding categories for his/her gender and education level:

1	Age			
2	Gender	Male	Female	
		1	2	
3	Education level	Primary	Secondary	Tertiary
		1	2	3

52. Annual income of the household: Please state the corresponding category of the annual gross income of the household:

-	<= 10.000 €	1
-	10.001-20.000 €	2
-	20.001-30.000 €	3
-	30.001-40.000 €	4
-	40.001-55.000 €	5
-	55.001-70.000 €	6
-	70.001-100.000 €	7
-	> 100.000 €	8

## REASONS FOR NOT CARRYING OUT AN INTERVIEW WITH THE HOUSEHOLD

-	The household denies to cooperate	1
-	The household is absent for a very long time	2
-	The residence was demolished	3
-	The residence is empty	4
-	The residence is not the permanent residence of the household	5
-	The residence is used for other purposes, not for living	6
-	The residence was not found	7
-	Other reason (declare)	8

## FOR OFFICIAL USE

Interviewer:	Date:
Checked by:	Date:
Final checking of the questionnaire by:	
	Date: