

Eco n'Home WP 2

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D4 List of parameters final version

<u>Energy consumption parameters</u>		
Fuel :		
1	Consumption in kWh (always use final kWh) in last 3 years	<ul style="list-style-type: none"> - consumption during period 1 (year x -3/year x-2) - consumption during period 2 (in year x-2 / year x-1) - consumption in period 3 (in previous year / this year)
2	Exact periods of consumption of these previous years	<ul style="list-style-type: none"> - period 1 - period 2 - period 3 (e.g. from 13/3/2004 to 15/4/2005)
2a	Gas meter reading at the time of the audit	
Electricity :		
3	Consumption in kWh per rate in last 3 years	Per period : <ul style="list-style-type: none"> - rate 1 (e.g. day) - rate 2 (e.g. night) - rate 3 (e.g. exclusive night) - rate 4 (special rate,
4	Exact periods of consumption of these previous years	<ul style="list-style-type: none"> - period 1 - period 2 - period 3 (e.g. from 13/3/2004 to 15/4/2005)
4a	Electricity meter reading(s) at the time of the audit	- per rate
5	refrigerator 1	<ul style="list-style-type: none"> - age - type (no / small/ large freezer cabinet) - measured consumption during period x - period x
6	refrigerator 2	idem
7	freezer 1	<ul style="list-style-type: none"> - age - measured energy consumption during period x - period x
8	freezer 2	Idem

9	dishwasher	Idem
10	washing machine	Idem
11	tumble dryer	Idem
12	PC & Co	Idem
13	Measured leaking losses (“stand-by losses”) in Watt	Measuring protocol needed !
14	Air-conditioning : yes/no, or “number of rooms”	
	Transport :	
15	Average number of people in each vehicle (occupancy ratio) :	
16	Per vehicle : Consumption/month	
17	Per vehicle : km/month in each vehicle	
18	Per vehicle : Cost of fuel (€L	
19	For non-vehicles (public transport, bike, airplane) : km/month	
	<u>General and socio-economic parameters</u>	
20	Name and address (or identification) of the family	
21	Number of people in the household	
22	Age distribution (number of p. < 3 years, > 3 and < 18 years, > 18 years, > 60 years)	
23	Presence during working days (mostly > 1 p. at home, sometimes everybody at home, seldom someone at home)	
24	Presence at evening (mostly everybody at home, mostly > 1 p. at home, sometimes everybody at home, seldom someone at home)	
25	Owner / renter	
26	Level of income	
27	Highest education level of mother or father (primary, secondary, higher non-university, university)	
28	Climate context (for example, month average temperature for a year period, to determine medium winter and summer temperatures)	
29	Public transportation availability/Bus stop/Frequency	
30	Urban/Rural	
	<u>Characteristics of the building :</u>	
31	Year of construction	
32	- Total heatable surface - Total heatable volume	Measuring protocol needed !
33	Year of last drastic renovation	
34	Type of dwelling (apartment, free-standing single family dwelling, row house, multi-family dwelling)	
35	Characteristics of heating installation	- energy - age

		<ul style="list-style-type: none"> - type (central boiler standard, central boiler condensing, individual stoves, accumulation stoves, heat pump, others)
36	Characteristics of 2 nd heating	<ul style="list-style-type: none"> - energy - kind of device (portable electric heaters, wood stoves, portable petroleum heaters, others)
37	Characteristics of hot water installation (electric, gas, ...)	<ul style="list-style-type: none"> - energy - age - kind of device
38	Characteristics of 2 nd hot water installation (electric, gas, ...)	<ul style="list-style-type: none"> - energy - age - kind of device
39	Solar boiler : yes/no	
39	Main energy source for cooking	
40	<u>Floor accessible for (extra) insulation : YES/NO</u>	
41	Roof type : pitched roof, loft, no roof (flat)	-
42	Size of windows and type of glazing	<ul style="list-style-type: none"> - m² single glas - m² double glas - m² high-efficiency glas <p>Measuring protocol needed !</p>
43	Number of rooms	
44	Levels of wall insulation	<ul style="list-style-type: none"> - no insulation - 3 to 6 cm of insulation - 6 to 10 cm of insulation - more than 10 cm
45	Levels of roof insulation	<ul style="list-style-type: none"> - no insulation - less than 6 cm - 6 to 15 cm - more than 15 cm
46	Levels of floor insulation	<ul style="list-style-type: none"> - no insulation - insulated floor
47	Inventory of most often used lamps	<ul style="list-style-type: none"> - type - power - estimated usage per day
45	Solar cells (PhotoVoltaics) : number of kW installed	
	<u>Characteristics of the cars :</u>	
46	Number of vehicles	
47	For each vehicle : Year of manufacture	
48	For each vehicle : Type of vehicle (car, motorcycle)	
49	For each vehicle : Size of the engine (cm ³)	
50	For each vehicle : Type of fuel (diesel, petrol, LPG, etc.)	