3. Results of the ENERGO 2004 survey

In cooperation with company Koneko marketing, s. r. o. there were processed primary data in the following areas.

3.1 Characteristics and average parameters of dwellings

Basic characteristics and parameters of surveyed dwellings will be suitable as a guideline for subsequent detailed processing of the sample results.

In table 3.1.1 there are presented mostly average values of the parameters. Presented data were processed in division according to urban/rural locality. It is evident from data in this table that basic characteristics of dwellings in urban and rural localities notably differ. For example average living (habitable) and heated floor areas of rural dwellings are larger than those of urban dwellings while the share of heat insulation in urban houses exceeds the one of houses in rural localities.

It is possible, from mentioned above values, lay stress on the fact that there is considerable difference between average heated floor area of urban dwellings (circa 70 m^2) and rural dwellings (circa 88 m^2). In identical structure, there are processed data concerning dwellings age which is interesting by the fact that it amounts to about 50 years regardless of urban /rural locality. Generalized results of the sample for whole republic show that round about 15% of dwellings already significantly decreased their energy consumption on heating. Approximately so much % of dwellings is located in houses with roof insulation and external walling of houses.

Characteristics and average parameters of surveyed dwellings

Table 3.1.1

Locality	Number of processed questionnaires	Average living floor area m^2	Average heated floor area m^2	Total No. of persons in dwelling	Average No. of persons in dwelling
Urban	30 541	74,3	69,6	83 411	2,70
Rural	9 389	95,8	88,3	28 552	3,00
Total	39 930	79,3	74,0	111 963	2,80

Continuing of table

Locality	Total No. of households in dwelling	Average No. of households in dwelling	Average age of dwelling (building) years	insulation of building*)		
				roof %	external walling %	roof+external walling %
Urban	32 143	1,06	50,8	20,2	9,1	15,7
Rural	10 353	1,10	53,0	17,4	6,4	10,9
Total	42 496	1,07	51,3	19,5	8,4	14,6

Average living (habitable) and heated floor areas of dwellings in division according to localities, regions and for the Czech Republic

Table 3.1.2

Indicator	Locality	ČR	Capital City Prague	Středočes-ký region	Jihočeský region	Plzeňský region	Karlovarský region	Ústecký region	Liberecký region
Living floor area m^2	Urban	74,3	81,9	73,1	74,8	74,5	74,2	75,7	71,2
	Rural	95,8	0,0	93,3	92,1	92,5	101,6	95,2	95,2
	Total	79,3	81,9	78,6	79,3	79,5	80,5	80,4	75,2
Heating floor area m^2	Urban	69,6	75,9	68,9	68,6	71,6	68,9	69,3	69,8
	Rural	88,3	0,0	86,2	83,1	85,2	92,5	87,2	91,7
	Total	74,0	75,9	73,6	72,4	75,4	74,4	73,7	73,5

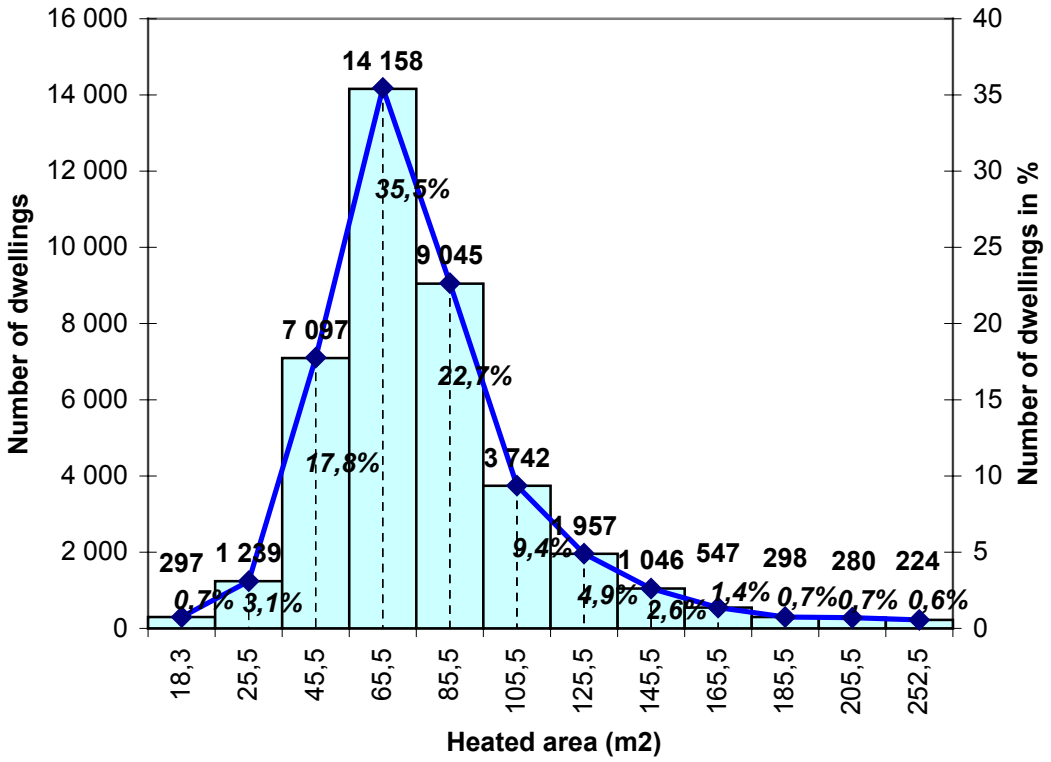
Continuing of table

Indicator	Locality	Králové-hradecký region	Pardubic-ký region	Vysočina region	Jihomorav-ský region	Olomouc-ký region	Zlínský region	Moravsko-slezský region
Living floor area m^2	Urban	73,0	72,5	71,1	72,0	71,3	69,7	71,2
	Rural	89,0	97,1	94,8	96,9	94,1	98,1	101,9
	Total	76,7	79,7	77,7	79,6	79,2	78,2	79,4
Heating floor area m^2	Urban	67,8	67,9	66,3	66,7	67,3	67,2	67,6
	Rural	82,2	89,6	83,7	88,8	88,9	92,2	94,1
	Total	71,2	74,3	71,2	73,4	74,8	74,7	74,6

Results certify well-known fact that dwellings in urban localities, mostly located in multi-storey block of flats (multi-dwelling buildings), have total living area significantly smaller than dwellings in urban localities, mostly in family houses (villas). This relation is valid even in all regions. Average total living floor areas of dwellings, respectively heated area in urban localities range, in individual regions approximately between 71 and 82 m^2, respectively between 66 and 76 m^2. Significantly larger average living area of dwelling show capital city Prague in which all surveyed dwellings are situated in urban locality.

Figure 3.1.1 gives information on distribution of dwellings under survey according to size of heated area. It contains a histogram of absolute and relative frequencies of the number of dwellings in individual heated area size intervals. The sample under survey includes 85,4% of dwellings with heated area between 31 and 110 m^2 and 58,2 % of them in interval between 51 and 90 m^2. Heated area larger than 191 m^2 is in less than 2% of surveyed dwellings. The histogram is made for the whole sample of surveyed dwellings, i.e. e. for the Czech Republic.

Fig. 3.1.1 - Representation of parameters and characteristics of dwellings under survey



In figure 3.1.2 there is, as an example for the Czech Republic, shown average total annual energy consumption of dwelling vs. heated area size relationship where this relationship is illustrated in dwellings frequency in individual classes of heated area size. These relationships are processed in other graph for urban and rural dwellings (figure 3.4.3 in chapter 3.4 - energy consumption of dwellings).

Figure 3.1.2 - Relationship of average total energy consumption per dwelling vs. Heated area size (Czech Republic)