

Output name: **QUANTIFICATION OF ENERGY POTENTIAL SAVINGS FOR THE RESIDENTIAL HOUSING STOCK IN BRATISLAVA KARLOVA VES MUNICIPALITY**
(English summary)

Output of activity: C.4.3a.

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Quantification of energy savings potential was prepared based on assessment of condition of prefabricated residential buildings (survey concerns only prefabricated residential buildings built before 1991) according to planned activities and consecutive working steps.

Three activities have been realised before the relevant data processing and quantification which offered necessary inputs and information regarding the condition of refurbishment of prefabricated residential buildings (1st activity C4: Report from survey on the condition of prefabricated residential buildings in Municipality of Bratislava - Karlova Ves), the processing of energy optimisation of selected two prefabricated residential buildings - refurbished and non-refurbished (2nd activity C4: PHPP energy optimisation for two prefabricated residential buildings - refurbished, non-refurbished), and for the selected two prefabricated residential buildings, the processing of architectural studies concerning refurbishment (3rd activity C4: Architectural studies of two prefabricated residential buildings-refurbished and non-refurbished).

The enclosed table shows an inventory of streets, floor area of all entrances and calculated potential of CO2 emission savings.

Results

Total treated floor area: 935 526,81 m²

Energy savings of heating demand: 59 421 381,75 kWh/a

Average energy savings of heating demand: 63 kWh/m².a

CO2 emission savings for energy carrier - natural gas: 16 459,72 tons per year

Conclusion:

It is possible to expect such level of energy savings for all settlement units in Slovakia and Czech Republic. The results of the activity will serve also for other project activities.

