

- Output name:** **ARCHITECTURAL STUDIES FOR TWO
PREFABRICATED RESIDENTIAL
BUILDINGS
- REFURBISHED AND NO-REFURBISHED**
(English summary)
- Output of activity:**
- C.4.2.
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The aim of the architectural studies was to design solutions for the refurbishment of prefabricated apartment buildings, which will not only increase the energy efficiency of the building, but also bring a new architectural quality of the renovated building. The studies address two selected prefabricated apartment buildings, refurbished and non-refurbished. For these selected buildings, energy optimisation was processed by the specialised program PHPP.

For this purpose, we selected the renovated residential building located on Karloveská 57, Levárska and Silvánska and the non-renovated building located on the street Pribišova 33 - 37. For both buildings were organised: visual checking of the buildings, meetings with tenants of selected residential buildings, digitalisation of project documentation, analysis of energy consumption and natural gas consumption, meetings of a multidisciplinary team consisting of internal and external experts from the Slovak Chamber of Architects and the DELIVER project team, composed of: Ing.arch. Pavol Panak, Ing.arch. Pavol Pokorny, Ing.arch. Michal Hybsky, Ing. Vladimír Simkovic, Ing.arch. Zuzana Hudeková and Ing. Ľubica Šimkovicová. Subsequently, energy optimisations were processed gradually for both buildings by the PHPP calculation software. Based on previous survey and recommendations from PHPP energy optimisation, a multidisciplinary team subsequently drafted an architectural solution for the renovation of both residential buildings.

Our aim was to design solutions that will bring new value to residents and thus increase their motivation to invest in further improving building parameters, not only in terms of reducing the building's energy performance (and thus CO2 emissions), but also increasing the building's resilience to the negative impacts of climate change.

Proposed solutions create a new structure, either directly on the building (facade solutions, use of loggias and their possible modifications, green roofs...), with an overlap into the solution of courtyards, the possible creation of common areas with new community functions etc., with regard to possible repeatability of such measures, and to serve as inspiration for other apartment buildings with the same or similar building structure, which are located in the housing estate in Karlova Ves and Dlhé Diely, but are also common throughout Slovakia.



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