

European Green Cities Network

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Abstract to the presentation „ Social housing with retrofitting of the former military buildings of Dobó Laktanya in Székesdűlő Park, Budapest“, Hungarian Demonstration project

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Location: the project site is situated at the North border of Budapest, close to the planned M0 outer ring-motorway, the highway No.2 and the river Danube.

The whole project site is around 77000 m², the whole planned building area is 69000 m². There will be office and storehouse buildings, and 700 dwellings.

The retrofitting project site is 6430 m², there are three building of three storey each with 2100 m² living space. Living attic/garret is to be erected on the existing flat roofs. There will be 36 social rental dwelling in each building; the number of all social dwellings will be 108.

The planned activities (in different levels) are as follows :

1. EIFS retrofitting
2. Low U value (0,2) thermal performance for newly erected pitched roof on each building
3. Changing the windows to low-emission glazed systems
4. PV Heat recovery ventilation systems for normal and attic dwellings in building A and attic dwellings in building B
5. PV assisted exhaust ventilation with low electricity use for normal dwellings in buildings B and C dwellings which are prepared for installation of heat recovery ventilation
6. Thermal and acoustic insulation in the direction to staircase and cellar
7. Solar system for Domestic Hot Water
8. Energy supply: Biomass or co-generation
9. Rainwater reuse system
10. Selective waste management system
11. Follow-up on cold bridges and air tightness of construction

As part of the RTD work a Green Quality Process will be aimed at in connection to the design process. Here it is the idea to present the local stakeholders with a catalogue of best available technologies including performance requirements and check systems. The aim is to develop minimum standards for eco efficient renovation and give an input to certification systems for retrofit projects.

The presented demonstration project from Budapest is a part of the „DEMOHOUSE” project (6th Framework Programme, Priority 6).