

Pilot project 'Old school building', Kohtla-Järve

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Measures done and the energy saving effect

- An energy audit for the whole school building was performed on 13.02.2012 by Viru Energiaudit Company
- On 23.05.2012 the Co₂oLBricks project partner workshop was conducted in the building, where some specific steps for the future renovation were worked out and recommended to the property owner by international specialists and experts
- An examination of the technical condition of the gym was performed on 22.05.2012 by Zoroaster Company. The results of the expert examination were approved on 21.09.2012 by Kalle Merilai, senior inspector of National Heritage Board of Estonia (approval nr. 18880)
- The general concept/construction project for the gym was designed by the Zoroaster Company and presented to the property owner on 25.06.2013; the concept was approved on 16.07.2013 by Kalle Merilai, senior inspector of National Heritage Board of Estonia (approval nr. 20798)

- The permission for the construction works in the school building, Spordi 2, Kohtla-Järve, was issued on 06.08.2013 by the Kohtla-Järve Town Government order nr. 599
- The permission for the restoration work execution nr. 10810 was issued on 02.09.2013 by Kalle Merilai, senior inspector of National Heritage Board of Estonia
- In accordance with the Contract nr 30082013/ LV nr.17-1.1.1/24 the restoration were started on 30.08.2013 and are due to continue till 31.10.2013, the Contractor is Scandec Ehitus OÜ

Summary / conclusion and lessons learnt

As part of the Co₂ol Bricks project workgroup meetings, workshops and information seminars were organised to join forces of property owners, representatives of organizations responsible for the preservation of architectural heritages, architects, construction specialists, energy saving experts and representatives of property management organisations. By using a specific building as an example various problems and their possible solutions were discussed. This became possible thanks to the co-operation and exchange of experience between profile experts. The results of the discussions served as foundation for the compilation of the expression of requirements for the project for the renovation of the gym. It is worth noting that this method of work is especially important in a situation where financial resources are limited and works need to be implemented in stages. With mutual cooperation it is possible to define most effectively the top-priority tasks that will not only work for the preservation of the building but will also lead to a decrease in heat losses and therefore also to a decrease of energy costs.

The implementation of the window renovation in the pilot project serves as a descriptive case for property owners and construction experts who discard older windows during reconstruction and do not consider it necessary to analyse their condition. This quite often has the results that the architectural and aesthetic appearance of the building is spoilt and that the costs of the construction works increase. It would be far more rational to use the budget to implement energy saving measures for windows.

An essential element of the continuous work in WP4 is the dissemination of information about the partner's work results, incl. pilot projects, the promotion of the considerations for historical buildings and of the practicability of addressing the issues of energy efficiency and energy saving. Providing stakeholders with information on state-of-the-art energy efficient technology and equipment, conducting workshops, and offering expert training are the tasks that should remain in the focus even after the conclusion of the Co₂olBricks project.

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