



Energy Refurbishment of 24 Public Buildings in the City of Maribor, Slovenia

Financing Scheme

Energy Performance Contracting in Maribor

In 2018, the Municipality of Maribor selected **24 energy-inefficient public buildings** for a comprehensive energy renovation.

Energy-efficient measures and the introduction of renewable energy sources were implemented in primary **schools, kindergartens, administrative buildings, the ice (skate) hall and the sports hall**. They included insulation of envelopes, new windows and doors, insulation of attics and basements, renovation of heating systems, instalments of thermostatic valves, new LED interior lighting and introduced energy management.

Special **attention was paid to user involvement, information and educational activities** to influence the good climate and energy behaviour.



Maribor



EPC



2018



Public Buildings



Total CAPEX
12 million €
Annual OPEX
474,500 €



School After the Refurbishment

The project was funded by the **EPC** and the private partner completed the work in just one year.

The **results of the project** are:

- annual reduction of energy consumption by 5,952 MWh,
- energy costs by 446,000 EUR,
- maintenance costs by 28,500 EUR and CO2 emissions by 1,305 tons,
- 1,000 MWh of renewable energy is yearly produced,
- Indoor working and living conditions have been significantly improved and users are very satisfied.



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Challenges

- **Technical challenges:** planning the right solutions adjusted to the users).
- **Influencing users** behaviour towards planned savings.



Successes for Replicability

- **Good cooperation** between ESCO, municipality, energy agency and building users.
- **Continuous monitoring** of the savings.
- **Regular advisory** service for the users.



School Before the Refurbishment



School After the Refurbishment

The Mentor's Tip:

“Monitoring of energy use is crucial to plan well the potential savings and to monitor achieved savings in the EPC contract period. It allows up-to-date adjustment to both - the users and ESCO side.”



Contact Info



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