

The Lifelong Learning University in Velenje

- Location: Velenje, Slovenia
- Use of the building: educational
- Built: 1980
- Heated gross floor area: 816,77 m²
- Heated net floor area: 689,77 m²
- Primary energy before renovation:
 - Heating energy: 148,3 kWh/m² (NFA)
 - Electricity: 33,4 kWh/m² (NFA)
- CO₂ emissions before renovation: 48.125 kg/a

Description of the pilot project:

- An educational building for lifelong learning for all generations.
- High costs of electrical and heating energy, high CO₂ emissions,
- EE measures implemented: roof insulation, partial replacement of outdoor and indoor joinery, modernization of indoor lighting,
- RES measures: installation of solar power plant on the roof of the building

Quick summary



Main work-steps/milestones:

- Feasibility study
- Peer review workshop
- Development of Main design for building renovation
- Crowdfunding process
- Renovation and commissioning
- Monitoring, verification and promotion

Documentation needed:

- Energy audit
- Inventory of works, materials, required approvals for renovation



Stakeholder involvement:

- Leading: **Own resources**
- Other: **crowdfunding**

Investment and financial model:

Investment cost: **114.831,44 EUR**

Financial model: **crowdfunding + own resources**



Results:

- Expected savings: **3.245 EUR annually.**
- Primary energy savings: **65 kWh/m²**
- Emissions: **41,1 % CO₂ annually**
- Return on investment (ROI): **25 years**

Lessons learnt



Biggest milestones:

- Feasibility study
- Crowdfunding process
- Renovation and commissioning

Biggest obstacles:

- Lack of crowdfunding platforms and experience with this method of financing – a pioneer project in Slovenia
- Legislation barriers for public authorities



What could've been done different?

For such financial approach, it is necessary to adapt the legislation, which as a municipality we cannot do but will lobby for it to happen on national level

What would we recommend?

In particular, we would advise other public authorities to explore the legislation barriers before they start the campaign and to consult with Slovenian platform operators on how to plan and conduct their campaigns

