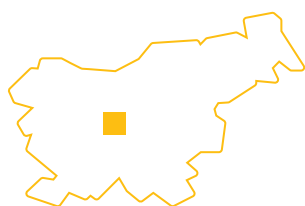




# LJUBLJANA'S ENERGY RETROFIT WITH PRIVATE PARTNERS



**279,631**

INHABITANTS

Ljubljana became the Green Capital of Europe 2016 through the recognition of being the city with the fastest sustainable development driven through 'Vision 2025' set by the then Mayor in 2006 – at the beginning of his first mandate. Vision 2025 is the long-term plan to improve quality of life realising 25 major sustainability projects by the end of the year 2025.

**30%**

EMISSION REDUCTION  
TARGET 2008-2020

**25**

MAJOR SUSTAINABLE  
PROJECTS BY 2025

**3,500**

TONNES ANNUAL CO<sub>2</sub>  
REDUCTION THROUGH  
ENERGY RETROFIT  
PROJECT (EOL1)

## CONTACT

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# PUBLIC BUILDINGS MADE MORE EFFICIENT THROUGH PUBLIC PRIVATE PARTNERSHIPS

As part of Vision2025, Ljubljana initiated a public-private partnership through energy performance contracting (PPP EPC), known as EOL1, within which the majority of building stock, owned by the city is being deeply energy retrofitted and, where possible, renewable energy sources are being introduced. Consequently, their greenhouse gas emissions are being reduced.

In the first project, which was implemented according to Slovenian national legislation and EU cohesion policy, a total of €14.8 million was invested in the energy retrofit of 48 buildings, ranging from schools and cultural centres to sports and health-care facilities. More than half (25 buildings) were deeply energy retrofitted, among which 25% of the energy is derived from renewable sources (solar, shallow geothermal energy – heat pumps, wooden biomass).

The 25 deeply retrofitted buildings received 51% of their funding from private partners, 40% from cohesion policy funds and 9% from the city. For the remaining 23 buildings, 51% of the investment came from private partners and 49% from the city.

A second project based on the same principle of energy performance contracting (EPC) is now underway for retrofit of further 11 buildings (EOL2 project).

Ljubljana's EOL1 project has been recognised as the most successful PPP EPC in the country and in EU and has already been replicated by other Slovenian cities.

## ADAPTATION

- **The issues concerning** adaptation are solved through measures which require that the comfort within the buildings should meet all the criteria of the indoor standards for different types of use.
- **Instructions for correct operation** of the in-built energy systems as well as maintenance.



## CHALLENGES

- **Educating** users to realise the potential of energy retrofit
- **Increasing** use of renewable energy sources in existing buildings
- **Achieving** a targeted 15-year payback period through energy cost savings

## LESSONS LEARNT

- *How to develop legal guidelines for PPP EPC in the public sector*
- *How to set up financial and budgetary systems for PPP EPC*
- *How to use PPP EPC in practice for the first time*
- *How to manage diverse funding partners - a valuable skill for other EU projects*





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