

WP3 – Summary Results/Indicators of Investment Plans carried out by each STEPPING partner

- **3 pictures of concerned buildings**



Municipal building
(Municipality of Bohinj)



Kindergarten »Deteljica«
(Municipality of Tržič)



Health Center
(Municipality of Bohinj)

- **General description of the pilot and its location**

Business Support Center Kranj (Regional Development Agency) has been working with the Local Energy Agency of Gorenjska (LEAG) to promote Energy Performance Contracting, as a tool for enhancing investments in energy efficiency of public buildings.

Based on utility records and several meetings with municipality officials, three public buildings with the highest priority for energy renovation were selected to test the EPC. These were municipal building and health center in the municipality of Bohinj and kindergarten in the municipality of Tržič.

For each one of the buildings energy audits were conducted, as well as financial, technical and energy feasibility study. Then a joint EPC investment plan was prepared for all three buildings



and consolidated with the requirements of ESCO, which currently owns the biggest market share.

Even though total investment cost exceeded the required minimum for EPC, which is 750k EUR, it was concluded that potential energy savings compared to cost savings had to be higher and more buildings would have to bundle to achieve the required return on investment rate.

Despite the situation, municipalities decided to continue with the investments with the casual partnership contract and use the results of pilot activities to successfully implement the scheme in the future.

Thanks to STEPPING project, we found feasible solutions to encourage the already existing application of the Energy performance contract model to the Gorenjska region.

To ensure that municipalities get everything they need to STEP the EPC model UP in energy refurbishment of public buildings, the project is going to perform also training activities and provide detailed guidelines on EPC.

- Responsible project partner details**

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- Summary/Results Indicators**

No. of Municipalities/Public Bodies involved	2
No. of buildings (bundled EPC)	3
Heating Degree Days and Cooling Degree Days	3300 (average)
Heated volume (m3)	14.105,60 m3 (Goss)



	10.701,00 (Net)
Usable area (m2)	3.390,00 m2
Total Investments needed (€)	786.848,39 EUR (construction materials and works)
Loan by the Public Body? If yes, amount (€)?	NO
Available public funding/incentives considered (€)	317.338,15 EUR
VAT (%)	1,45% (public partner – non-reimbursable) 16,83% (private partner – reimbursable)
Energy vector included? If yes, related value (i.e. €/standard cube metre of methane gas and or €/kWhe)	NO
O&M included? If yes, related value (€)	19.852,79 EUR
Typology of ECM- Energy Conservation Measures (description)	<ul style="list-style-type: none"> ✓ Insulation of façade ✓ Replacement of windows and doors ✓ Roof insulation ✓ Lighting upgrade (<i>only municipal building and kindergarden</i>) ✓ Energy consumption regulation and monitoring (<i>only municipal building and health center</i>) ✓ Modernization of



	heating system (<i>only kindergarden</i>) ✓ Energy management
Energy saving (%)	46%
kWh ANTE and kWh POST implementation ECMs (not standard but resulting from the energy audits)	674.900 kWh ANTE 364.500 kWh POST
Avoided CO2 emissions (kgCO2/y)	68.000

