

# OUTPUT FACT SHEET

## Pilot actions (including investment, if applicable)

Version 2

Project index number and acronym	CE906 BOOSTEE-CE
Lead partner	Bruno Kessler Foundation
Output number and title	O.T3.1 Pilot actions for EE upgrade in public buildings
Investment number and title (if applicable)	PA7 - Improving energy management (PA7) in a public school of Velenje (SI)
Responsible partner (PP name and number)	Municipality of Velenje (PP8)
Project website	<a href="https://www.interreg-central.eu/Content.Node/BOOSTEE-CE.html">https://www.interreg-central.eu/Content.Node/BOOSTEE-CE.html</a>
Delivery date	10.2019

### Summary description of the pilot action (including investment, if applicable) explaining its experimental nature and demonstration character

The pilot action in Slovenia was implemented measures: installation of monitoring system - installation of smart meters in the Music Scholl Fran Korun Koželjski Velenje and education of building managers. The second issue is equally important, as energy monitoring should coincide with rational and conscious energy consumption. The implementation of the central monitoring system consisted of installation of heating meters on three different parts of the building and installation of electricity meters on two main distribution boxes. Parallel activities are education head staff of school and maintenance team, motivating them to analyze energy consumption on a daily basis and reduce energy consumption through various organizational measures. In addition, the activities were also focused on raising awareness among the building's employees and users regarding the Rational Use of Energy (RUE).

Our pilot actions were installing PLC computer which is connected with smart meters through smart metering system (two smart meters were installed Electric Greatness Meter and Heat gauge).

The data gathered by the smart meters will be used by an energy management system that keeps track of the consumption, therefore the detailed energy flows help us to determine malfunctions, to reveal over-consumption periods and make recommendations to decrease energy use, to ease the operation of the building and most importantly to increase comfort.

**NUTS region(s) concerned by the pilot action (relevant NUTS level)**

NUTS 3 - Savinja Statistical Region

### Investment costs (EUR), if applicable

Investment costs (total) - 14 823 EUR

### Expected impact and benefits of the pilot action for the concerned territory and target groups and leverage of additional funds (if applicable)

Improving energy efficiency in Velenje.  
Increasing public energy awareness.  
Education of building managers.  
Building users will gain experience in how smart metering works and how it should be monitored.  
The reduction of energy consumption of up to 10% (the power of control), which will directly affect the reduction of CO2 emission.  
The energy management system helps to determine malfunctions, to reveal over-consumption periods and make recommendations to decrease energy use.  
Overall energy savings for heating and electricity are around 51,3 MWh so far.

### Sustainability of the pilot action results and transferability to other territories and stakeholders.

The building where the works were carried out is in the ownership of the beneficiary, so the guarantee of durability is maintained. The Velenje Music School building belongs to the resources of the Municipality of Velenje. The investments were made through public procurement by Municipality of Velenje and all the equipment is in the municipality's financial books.  
The finding a different location - Savinjsko-Šaleška region (SAŠA region) to implement the results of the pilot action in Velenje and the lessons learned during its implementation.

### Lessons learned and added value of transnational cooperation of the pilot action implementation (including investment, if applicable)

The effect of investments and the added value in the transnational dimension is the exchange of experiences and practices of carrying out similar investments in various political, social and technical conditions.  
It will be best practice solution which can be shared by partners, and partner can learn from this example. The goal is starting with smart metering to get detailed data, data analyses and auditing, excavation of measures for energy saving, cost saving and CO2-saving, tendering and implementation of measures.

**Contribution to/ compliance with:**

- relevant regulatory requirements
- sustainable development - environmental effects. In case of risk of negative effects, mitigation measures introduced
- horizontal principles such as equal opportunities and non-discrimination

It was small investment into the metering system, which doesn't need special approvals.

The investment will have a positive impact on the environment and climate due to the reduction of energy consumption. There is also the potential to increase this impact through raising environmental awareness and change society's bad energy habits.

All of the other horizontal principles were taken into consideration and was not violated.

Both men and women are involved in the project.

The activities implemented in the project equalize the chances of the territory in the region and the country by implementing energy efficiency improvement measures affecting the quality of the climate and the environment, and Velenje position as a municipality increases, where the energy monitoring and management system has been installed as a modern area and following European trends.

**References to relevant deliverables (e.g. pilot action report, studies), investment factsheet and web-links**

**If applicable, additional documentation, pictures or images to be provided as annex**

Deliverables: D.T3.3.1 Pilot actions preparation, D.T3.3.2 Pilot actions guidelines, D.T3.1.8 Improving energy management (PA7) in a public school of Velenje, D.T3.2.1 Evaluation report on pilot actions implementation, D.T3.2.2 Pilot action reports, PA7 fact sheet

Web-link: <https://www.interreg-central.eu/Content.Node/PA/PA7.html>