

OUTPUT FACT SHEET

Pilot actions (including investment, if applicable)

Version 2

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| 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) | PA4 - Application of OnePlace (PA4) for improving EE in public buildings in Tolna (HU) |
| Responsible partner (PP name and number) | Tolna County Development Agency (PP6) |
| Project website | https://www.interreg-central.eu/Content.Node/BOOSTEE-CE.html |
| Delivery date | 10.2019 |
| Summary description of the pilot action (including investment, if applicable) explaining its experimental nature and demonstration character | |

The pilot action will be implemented in 3 public buildings operated by the Municipality of Tolna: a Sports Hall, the Town Hall and the Lovarda Cultural Centre.

As part of the investment, smart metering will be installed to refine the energy monitoring and increase the capacities of the municipal staff to oversee specific utilities.

- **Sports Hall:** In accordance with the consultations conducted with the building operators, we identified three spots where electricity smart metering will be beneficial for the operator and the users/tenants. Being able to track the consumption of the cafeteria (operated by a third party making difficult to measure their consumption), the inner lighting of the hall and the outer reflectors separately to determine the timing of certain users.
- **Town Hall:** RES capacities were installed in 2015. The data provided by the inverters will be incorporated into a common software environment facilitating easier use and planning of the electricity generation/consumption.
- **Lovarda Cultural Centre:** Two gas boilers provide for the heating of the facility however optimal use and temperatures can be determined by measuring the consumption of the boilers separately. The inner temperature measurement will be incorporated into the online system so that the staff will be able to oversee it from their offices and make interventions to boost efficiency.

Gas and electricity consumption data will be forwarded via an online system since the Municipality operates numerous buildings. However, the software background will not be provided by BOOSTEE-CE, because the Municipality joined a smart grid / e-mobility project in 2018 provided by the Protheus Holding PLC and their software background will be implemented. Please note that earlier completion of PA4 could have led to TCDA/Municipality of Tolna not being able to provide for the sustainability of the investment regarding the software procured in the frame of BOOSTEE-CE.

Staff training in energy efficiency is a complementary activity.

Other planned investments in the Municipality of Tolna:

- Displaying current energy consumption where smart meters are available.
- Displaying current outer weather conditions to improve the efficiency of heating in the Town Hall, the Sports Hall and the Lovarda Cultural Centre.
- Measuring inner temperature in the Sports Hall and the Lovarda Cultural Centre to improve heating settings.
- An energy certification process will be carried out during the implementation of the investment.

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

NUTS 3 - Tolna Megye HU233

Investment costs (EUR), if applicable

Investment costs (total) - 15 000 EUR:

- 12 000 EUR for the investment and the connected side activities;
- 3 000 EUR for the energy certification.

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 the public buildings of the Municipality of Tolna. Creation of a best practice for energy, cost and CO2 - saving based on smart metering and energy certification.
Increasing public energy awareness by publication the best practice model, and transferring to other objects.
Staff training in buildings of the pilot action. The display of the current consumption could lead to increased efficiency by changing behaviour patterns, with an expected result of 5-7% if training is provided besides displaying the measured numbers.
Building users will gain experience in how smart metering works and how it should be monitored.
In the meantime, the municipality of Tolna began to pilot a smart network, which meant that the slightly delayed purchase of software under BOOSTEE -CE resulted in a better selection of technology and devices to meet the needs.

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

The buildings where the works were carried out are in the ownership of the Municipality of Tolna and the beneficiary (TCDA) had set in place long-term legally binding arrangements to ensure durability and maintenance. Relevant long-term contract (attached to this document) for the maintenance and use of an appropriate set of equipment have been agreed.
The activities and experiences can be transferable and replicated in other cases and regions.

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.
The Tolna Pilot Action will be beneficial for those who would like to learn from working together with various organizations during the implementation of a certain investment.

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

Compliance with relevant regulatory requirements is not applicable.

The investment will have a positive impact on the environment and climate due to the reduction of energy consumption. Energy and CO2 will be saved. There is also the potential to increase this impact through staff training and displaying consumption that raises environmental awareness and can change society's bad energy habits. Additional impact by working together with the smart grid project.

The project activities generally contribute to ensuring gender equality. Both women and men will have equal access to the project regardless of age, gender, disability, race, religion, nationality, political views and sexual orientation. 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 Tolna 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.T3.1.5 Application of OnePlace (PA4) for improving EE in public buildings in Tolna (HU), D.T3.2.1 Evaluation report on pilot actions implementation, D.T3.2.2 Pilot action reports, PA4 fact sheet

Web-link: <https://www.interreg-central.eu/Content.Node/PA/PA4.html>