



A.T3.5 EVALUATION OF THE 3 FORESEEN PILOT ACTION

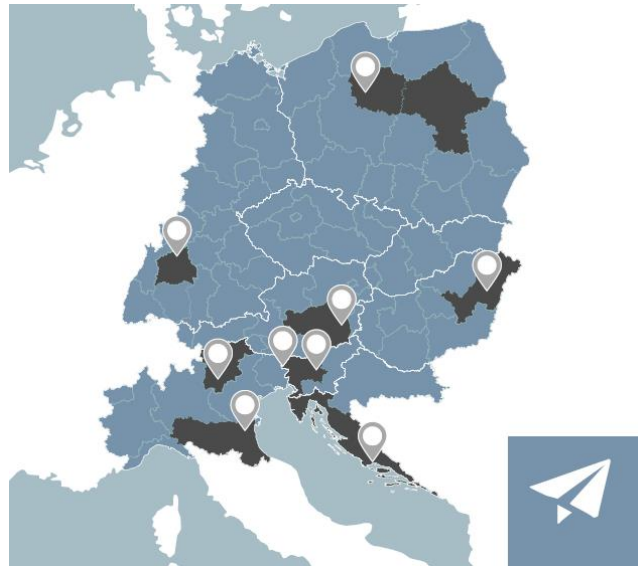
D.T3.5.1 Evaluation report

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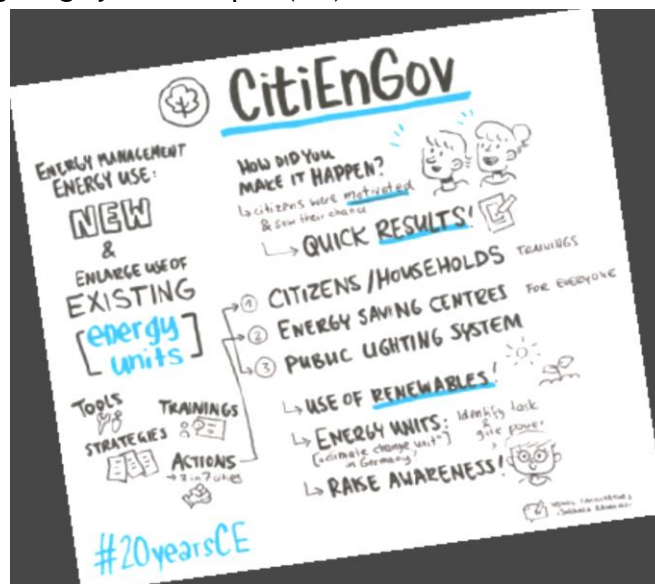
CitiEnGov aimed at improving the capacity of Central Europe Public Administrations to implement new energy planning strategies through the setting up of new Energy Units or the enhancement of those already existing.

Furthermore, CitiEnGov promoted an integrated approach to implement cross-cutting energy plans, new SECAP elaboration, SEAP monitoring and implementation, energy-related data management and new energy data integration, incentives and pilot actions to improve the adoption of energy efficiency solutions at local and regional level.



Within the project **3 pilots action** have been realized:

- Eco-Citizen Programme - domestic behavioural change in energy consumption in Ferrara (IT), Ludwigsburg (D) and Hajdú-Bihar County (HU)
- Design and Launch of a One Stop Shop Energy Service Centre in Weiz (AT), Bydgoszcz and Grodzisk (PL)
- Green Public Lighting System in Split (HR)





The objectives

- raising awareness of citizens about energy efficiency issues
- supporting energy units and give advisory services on RES and EE solutions
- improving the sustainable urban public lighting management
- promoting innovative solutions to enhance energy efficiency at urban level

The results

Pilot Action 1: The Eco-Citizens Programme

The Eco-Citizens Programme aims at actively involving households, raising awareness about domestic behavioral changes towards energy efficiency and RES use. By means of thematic events, workshops and

tailor-made consultancy services, citizens have reduced the energy consumption and decreased domestic energy costs.

Overall here are the figures at project level:

- 3 cities involved (Ferrara, Ludwigsburg, Hajdú-Bihar County)
- 50 families (30 in Italy, 10 in Germany, 10 in Hungary)
- 11 seminars organized for citizens about domestic behavioral change
- 5% average energy saved for all the households involved in the Programme

Pilot Action 2: One Stop Shop Energy Centre

The One Stop Shop Energy Centre in Weiz (AT), Bydgoszcz and Grodzisk Mazowiecki (PL) is a single service where all the stakeholders can approach public administrations with all energy-related issues.

The activities of the One Stop Shop Energy Centre in the 3 cities are the following:

- information (about policies, initiatives, step-by-step assistance about energy related issues)
- education of citizens about the importance of EE and RES
- demonstration of EE and RES solutions
- consultations for citizens and stakeholders
- initiation of local and regional initiatives for new EE and RES solutions

Pilot Action 3: Green public lighting system in Split

A Pilot Action for the modernization of public lighting (Green Public Lighting System) has been implemented in the city of Split (HR) based on Smart City solutions.

This project enables the City of Split to promote energy efficiency and renewable energy sources as a step towards more efficient management of energy resources at urban level.

It also contributes to achieve the energy savings targets set by the City Council.

Results achieved:

- 18.000 square meters covered with new smart lighting
- energy savings of 80%
- reduction of 11.5 tons of CO2 per year



Pilot Action 1: The Eco-Citizens Programme

Good practices

The pilot activity was very successful. People participating in the activity spread words about their efforts and collected followers. The real achievement was the behavioural change itself. Participants agreed that consciousness meant quite a lot and after seeing the result of their own efforts accelerated their involvement even more.

The best good practices learned and applied in the Pilot Action 1:

- partnership with local public authorities to involve the citizens and disseminate the results
- intermediary meetings to deepen the knowledge about energy saving in everyday behaviour
- presence of the energy experts accompanied and gave suggestions to families
- media articles about sustainable behaviour and about energy saving by the participants of the competition (multiplier function) --> “lessons learned” by the participants
- positive personal exchange of the participants between them and with the external expert who did the energy audit
- incentives to use public transports and e-bikes
- partnership with local press
- sponsors who helped to make the competition attractive (Smart Home starter sets by Bosch, vouchers from a regional store, energy saving boxes by the public utility company)
- combination of professional inputs and interesting excursions have been very attractive
- involvement of the children. Families were very open for suggestions provided by children. It is a very effective way of introducing new ideas to start with children - families tend to make changes if their kids want it.

Difficulties

- some difficulties on the first collection of households bills and document for the audits;



Pilot Action 2: One Stop Shop Centre

Good practices

One of the numerous project objectives of the transnational European Interreg Central Europe Project CitiEnGov was to implement a local One Stop Shop Energy Service Centre in each of the three cities Bydgoszcz, Grodzisk and Weiz in close cooperation. The overall objective of the implementation was to create a single point of contact in each of the three cities for energy and related issues, whether on-site (Grodzisk and Weiz) or digital (Bydgoszcz). Important goals in the context of implementation were therefore to involve public and private actors in the process, but also to work on solutions for Energy Efficiency (EE) and Renewable Energy Sources (RES).

The best good practices learned and applied in the Pilot Action 2:

- **partnership with local public authorities to involve the citizens and disseminate the results**
- harmonised information services by combining competences, awareness rising, active and target-oriented communication and knowledge transfer, and the optimization of presentation and demonstration tools
- implementation of new Energy Service Centres, for demonstration, awareness raising and information and Energy Training Centre to get in touch with energy in an exciting and playful way.
- improving the individual competences and issues of each energy unit,
- identification of common future-oriented energy services,
- co-operation between the single units in the frame of common local (R&C)-projects,
- organisation of common trainings, study visit trips and events,
- strengthening of public-private-partnership (PPP) models in terms of local energy competences and developing common energy business models based on the own pilot projects,
- working on common actions plans, energy policies and strategies.
- transnational approach: The transnational link was a very important component of Pilot Action 2 but also of the whole project. Next to the overall link of the OSS platforms (Weiz and Grodzisk use an office within the cities, while Bydgoszcz uses an online portal), especially the cooperation of Weiz and Grodzisk within D.T3.3.4 “Launch of One Stop Shop Energy Service Centre in Weiz & Grodzisk: transnational info & training” by Transnational Info and Training workshops combines the OSSs of the two cities.
- organization of “Transnational Info and Trainings” was the professionalization of the energy study tours in the city of Weiz and Grodzisk by combining theoretical and practical issues in terms of EE and RES energy solutions for local, regional but also international target and stakeholder groups
- active knowledge-transfer on energy related issues on transnational level with a combination of theory and practice

Difficulties

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Pilot Action 3: Green public lighting system in Split

Good practices

The Investment is in new innovative public lighting solution in city of Split pilot urban neighborhood, chosen among the others as presenting a standard situation, similar to most of the other urban parts of the city, covering an area of about 18.000 sq.m. The Investment consist thematic equipment for 80 lighting points improved with 82 LED lamps for road lighting and 82 addressable controllers for central management and data collection through GSM signal with total power of 3,05 kW. Built-in lamps conform to Croatian and European road lighting standards (Standard HRN EN 13201-2:2016) and have IP66 protection against atmospheric influences. They are also in compliance with the Law on light pollution protection, and the color temperature of the light is 3000K. Contracted service provider delivered 10-Year Warranty for delivered equipment.

The contribution of the Pilot action is related with lowering energy consumption in the public lighting sector in Split and gaining savings in electric energy, decreasing lighting dispersion, allowing better lighting of the pilot area, lowering emission of CO₂. Moreover the Pilot action give us possibility to collect and govern energy data for public lighting and inclusion in the already existing energy GIS system, adding an additional layer of currently lacking information; therefore a more efficient coordination and planning of the local energy policies is secured. The benefit for the City of Split is improvement of local traffic infrastructure security since a more efficient public lighting assures better safety of end-users of the pilot area. End users (citizens) have a safer urban area, better visibility of the roads and crossings. The Pilot action allowed us to test state of the art solution which, adopting the most updated technologies on the market, which could easily be adapted it to the need and requirements of a small to average size town, requiring an energy efficient project envisaging entire renovation of the system and an increase of the lighting quality level. The Pilot action is surely linked with project results dealing with the improvement of PA capacities to define and implement strategies for low carbon energy.

It is important to implement structures for a better cooperation, for more efficiency and for sufficient awareness rising - also within the PA. International standards and State of the art technology have been relevant to the definition of the future public lighting modernization plan in Split. The ordinance for sustainable procurement has been quite difficult to develop. Therefore international cooperation on this field can be very helpful to implement international standards about sustainable procurement more quickly and to exchange experience on real example results.

Difficulties

- The initial delays due to the conclusion of the public procurement procedure were solved and activites were concluded in July 2018