

IEE Project CONURBANT



WP2

D2.2- Report on training seminars including main proposed integrations

Alba Iulia Municipality

December 2012

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Contents

INTRODUCTION

This work package addressed to the improvement of partner Municipalities' capacity in the field of developing, implementing and monitoring SEAPs, based on their specific needs assessment.

The consortium used existing training material at EU and national level to organise centralised training sessions, local training for trainee cities and for conurbation towns politicians and technicians. Study tours will be organised for Trainee Municipalities and conurbation towns in Tutoring cities.

WP2 addressed the development of capacity in two ways, firstly through community peer-to-peer exchanges on experiences (to gain an insight into working procedures, to improve an understanding of challenges, and to identify potential opportunities) and secondly through a range of more technical / specialised learning opportunities.

The training sessions were / will be organized on four levels:

- At centralised level for Partner Municipalities (and some invited Conurbation towns) which were lead during the first 5 months of project implementation and that were hosted by 2 Tutoring Cities.
- At local level for partner Municipalities: officers and policy makers trained at centralised level will bring back to their community the contents of the training and will train colleagues and relevant key actors
- At local level for Conurbation towns: partner Municipalities will train officers, policy makers and relevant key actors of 3-6 smaller towns in their urban area.
- Again at centralised level: partner Municipalities, strong of the experience gained, will organise 2 open training sessions for EU Municipalities during the European Sustainable Energy Week or other relevant event at EU level (possibly around month 10 and month 22).

During the project were organized three training seminars:

- First training seminar was held in Vicenza-Padova (Italy) in the same time frame with the kick off management meeting (month 2). This seminar targeted the Trainee Municipalities and Conurbation towns. It included a half-day study tour to Padova, to show highlights in an advanced community from a EU-15 Member State and provided extra opportunities for peer-to-peer exchange and learning. The study tour was followed by a half-day de-briefing session and analysis of good examples.
- Second training seminar was held in Alba Iulia (Romania) in the same time frame as the 2nd management meeting (month 5). This seminar will also be targeted to Trainee Municipalities and Conurbation towns. It will also include a half-day study tour to Alba Iulia, to show highlights in an advanced community from a New Member State and provide extra opportunities for peer-to-peer exchange and learning. The study tour will be followed by a half-day de-briefing session and analysis of good examples.
- The third 1-day training seminar will be held in Limassol (Cyprus) in the same time frame as the 4th MM (month 15). This training session will take place when Trainee Municipalities will have or almost have developed their SEAP and therefore the contents will be focused on the technical and financial implementation and monitoring of the SEAPs. Contents will be coherent with the level of implementation that will be found in wp5 and will also depend on the needs of the Trainee Municipalities.

General overview on seminars:

- An on going process, but with concrete results at this moment;
- A combination between theoretical, legal framework, the financial and practical examples;

- A mixture between competent and relevant documents provided by EC, other European institutions and other European projects, well structured, adapted to the needs of trainees municipalities by SOGESCA;
- A combination of experiences in coordination and delivering of practical content and ideas of concrete projects included in a SEAP, between a big Italian city, a city from a more advanced EU country, and a medium size city from EU.

Main outputs

- Training material for centralized training collected and available on project website – by SOGESCA (English and national languages);
- Training program for municipalities and conurbation towns - SOGESCA;
- Three 1,5 centralized training seminar for Trainee Municipalities and conurbation towns held in Vicenza, Alba Iulia, Limassol with more than 80 people – technicians, officers, policy makers, NGOs experts, etc.;
- 2 urban tutors assigned to 8 trainees municipalities (Alba Iulia and Padova);
- 8 trainee municipalities and conurbation towns were or will be trained at local level in order to better support the elaboration of SEAPs.

TRAINING SEMINARS REPORT

Training seminars organized within the WP2 from 30 May 2011 to 5 October 2012.

FIRST TRAINING SEMINAR (VICENZA-PADOVA)

The first training seminar was held in Vicenza-Padova (Italy) between 30 May 2011 and 1 June 2011.

Training seminar has started after project management meeting, and was held in two parts.

In the first part, which took place on May 31, 2011, were discussed:

- Training programme (lead by CPD + SOG): presentation of the training, definition and contents, draft D2.1;
- Centralised training and study tours (leader ALBA IULIA): short presentation on the trainings, their role and importance, how will be conducted, structured and developed;
- Local trainings (leader EKODOMA): presentation on local trainings, keys for Trainees Municipalities, the usefulness of the local trainings, who should participate, why, their importance for the elaboration of SEAPs;
- Development of SEAPs and peer-to-peer approach (EKODOMA), theoretical framework, baseline definitions, CoM approach;
- Presentation support to Trainee Municipalities and Conurbation towns to sign the Covenant of Mayors, inputs for compiling the baseline CO₂ emission inventory and lead the development of their SEAP.
- Alba Iulia presented the structure of its SEAP, the most important projects and the problems appeared in SEAP elaboration.

2 of its already developed and implemented projects were detailed by Alba Iulia Municipality representative (Nicolai Moldovan, Alba Iulia local coordinator for CONURBANT project):

The sustainability of alternative energy for 4 public institutions of Alba Iulia County: "Dorin Pavel" Technical College, The home for the elderly, The day care center for the elderly, Program Manager Department with:

- General objective - the increase of life quality for the population, a sustainable, competitive and long-term based development of the town of Alba Iulia through a diversity of production resources, technology and infrastructure for the production of electric energy from renewable (solar) resources, decreasing of the local CO₂ emissions, according to the conventions strategic priorities assumed by Romania in relation with the United Nations framework agreement concerning climate change and the European Union.
- Specific objectives:
 - SO.1. The sustainability of alternative energy for 4 public institutions of Alba Iulia County: "Dorin Pavel" Technical College, The home for the elderly, The day care center for the elderly, Program Manager Department, through electric energy production using the local solar potential to install, operate and interconnect together with the National Power System 1714 photovoltaic panels, having a cumulated power of 257 kW, thus: "Dorin Pavel" Technical College would have 920 photovoltaic panels installed (150W power/panel); P_{inst} = 138 kW; P_{max} = 112 kW; E = 155 500 kWh/an; U = 230/400 V; Cos φ = 0,90; The home for the elderly would have 524 photovoltaic panels installed (150W power/panel) P_{inst} = 78.6 kW; P_{max} = 65.4 kW; E = 97 700 kWh/an; U = 0,23/0,4 kV; Cos φ = 0,90; The day care center for the elderly would have

54 photovoltaic panels installed (150W power/panel) $P_{inst} = 8.1 \text{ kW}$; $P_{max} = 6,7 \text{ kW}$; $E = 10\,000 \text{ kWh/an}$; $U = 0,23/0,4 \text{ kV}$; $\text{Cos } \varphi = 0,90$; Program Manager Department would have 216 photovoltaic panels installed (150W power/panel) $P_{inst} = 32.4 \text{ kW}$; $P_{max} = 26,4 \text{ kW}$; $E = 39\,960 \text{ kWh/an}$; $U = 0,23/0,4 \text{ kV}$; $\text{Cos } \varphi = 0,90$.

- SO.2. Decreasing the CO₂ emissions in Alba Iulia County with over 500 tons/year respectively 12500 tons in 25 year of functioning of the photovoltaic park installed due to this project.

Alba Iulia public transportation system

The public transportation from Alba Iulia gives each citizen the possibility to have an active social life, access to work, education, authorities and public services even though they do not own a car, regardless of race, religion or income. The people with special needs can travel easily on the routes of Alba Iulia: Alba Iulia have low-floor buses, buses equipped with ramp and level boarding. Public transportation system routes cover the whole city so that our travelers can arrive wherever they want, whenever they want it. Although the company that operates the local transport is 100% private, they consider themselves to be a public service, having as a mission the permanent increase in quality of the transport for passengers in Alba Iulia.

Alba Iulia has approximately 90 buses, most of them not older than 5 years; they have a reduced impact over the environment, and are equipped with air conditioning and supplementary heating systems. The transport company has built our own fuel station and we have one of the most modern car wash, which allows us to ensure transportation using exclusively buses that are washed twice a day.

The busses are equipped with GPS, allowing us to use a fleet management and dispatching system. Therefore, the traffic charts are precisely observed and the traveler waits less time in the stations. Alba Iulia owns an integrated traffic monitoring system on all the vehicles and on all routes, which can thus be localized in real time on the digital map of the entire park. For the most part of the stations there can be found display boards with real arrival time, and in the means of transportation there are dynamic display systems, where the current station and the following station is always announced. These facilities are doubled by the vocal announcing of the lines and stations, both in the stations and in the buses.

The GPRS system makes possible the communication of each vehicle with the two dispatchers, which allows the transport company to optimize in time according to the traffic jams, damages or accidents. Due to this system the transport company can guarantee the safety of the travelers through the possibility of calling the emergency number (112) for authorities: emergency rescue, firemen, police or constabulary. The buses are also equipped with recording cameras for the supervising of the doors and the safety of the travelers. The buses are also equipped with video cameras in order to supervise the doors and to ensure the traveler's safety.

In the means of transportation there are two kind of validation. The travelers can choose between the classic ticket, on paper, or for the electronic ticketing: card subscriptions, gratuities and electronic wallet. As an addition to the cards, Alba Iulia is the first city in the country where there is a possibility to pay the ticket via SMS, and this ticket is valid for an hour.

The second part of the first seminar, which took place on 1st June 2011, was held in Padova. Padova Municipality organized a very interactive and fruitful meeting, presenting to all the consortium partners concrete examples about:

- Padova SEAP: goals, assessments, achievements (Ms. Daniela Luise, Mr. Michele Zuin, Environment Department – Comune di Padova);
- The mobility in the commune towards CO₂ emissions reduction (Mobility Department, Mr. Luca Furlan, Mobility Manager of the Municipality APS Holding);
- PV on public Buildings: the experience of the Commune with Sinergie SPA, Interporto and MAAP;
- Sinergie Spa, Mr. Massimo d'Avanzo.

Padova Municipality also organised visits to:

- a big Public PV Installation (Interporto, MAAP Mercato Agro Alimentare Padova);
- Interporto spa;
- Tram System.

A satisfaction evaluation of the training seminar lead by ALBEA took place at the end of the meeting. More than 85 % of the consortium participants were satisfied with the content of the seminar and the way it was organized.

SECOND TRAINING SEMINAR (ALBA IULIA)

The second training seminar was held in Alba - Iulia (Romania) between 2nd – 4th November 2011. Training seminar has started after project management meeting, and was held in two days.

In the first day of the seminar were presented:

- Financing Opportunities (Sogesca, with Mr. Giovanni Franco), In order to assess the achievement of project targets regarding SEAP actions and investments, only actions linked with the project will be considered. Regarding the expected number of ELENA proposals, it is confirmed that ELENA is not the only financial facility that can be used to develop investment plans. In order to give to the consortium a wide and deep idea of the financial instruments existing the presentation was an overview about Funds in general, about green-economy investments 2007-2013, about some specific cases as “Jeremie” and “Jessica”, about IEE Programme and what this kind of co financing programme expect as result on founding request. Were also presented Elena EIB, KfW and CEB Elena Elena. The consortium had so the chance to talk deeper about what are the expected impact on this Project about the expected requests of financing actions.
- Climate Strategy Approach – SEAP development (Timisoara, external expert Mrs. Fistic Gabriela) This presentation gave good tips to all partners on:
 - how to create a good “task force team” that will take care of writing the SEAP;
 - how prepare a good Emission Inventory; talking also about how many difficulties the Municipalities has to face in order to collect good quality data;
 - how to set up objectives and targets overall and by sectors;
 - how to achieve a deep political engagement,
 - how to find out the adaptation and mitigation intervention that the municipalities need.
- Biogas and Co-generation implants efficiency. (Mr. Claudio Rochas, representing Ekodoma). It was a technical presentation of general function of biogas and co-generation systems, supported by the example of some study case (ex. Ciryty of Jeglava in Latvia).
- Mr. Rochas went deeper on environmental benefits that those systems can bring in small, medium and large cities. Biogas was presented in terms of energy crops; a good introduction to feedstock for biogas production was given to the consortium with a wide view of biogas utilization and costs/benefits relation. It was talked about costs of maintaining a CHP implant and on biogas upgrading and economical assessment.

- Mobility Solution. (Mrs Monica Rivera, from Albea Transenergy). It were presented:
 - Structuring Mobility solutions for the SEAP;
 - Mobility management proposals;
 - Parking management examples;
 - Non motorized mobility solutions;
 - Public transport;
 - Mobility marketing, awareness campaign for the citizenship;

Finally she proposed a summary table for measures that can be proposed for SEAPs, with costs/benefits tool. She also talked about financial founding opportunities, also inside the IEE Programme.

- Solar Thermal Energy and Photovoltaic Solutions topic. (Mr Panos Antoniadis, from Stratagem), focused on presenting a practical overview about solar thermal energy production of heat and generation of electricity. Different technologies were presented (i.e. crystalline silicon and thin film). The partner offered a project overview and a practical tool for creating a business plan.
- Improving Energy Efficiency in Street Lighting Systems (Mr George Lorincz, technical expert Municipality of Alba Iulia). The presentation showed the components to act on, in order to increase efficiency on public lighting systems. An overview on energy efficiency policies that Municipalities can apply in their Cities, and which are the different solution for supporting the Energetic Efficiency of a city or a town. A comparative table between LED lamps and classic HPS lamps was showed to the consortium, in order to give them an useful tool on calculation of CO2 reduction using LED lamps on public lighting systems.
- Preparatory presentation for the following workshop on energy saving options (Mr Romano Selva, representing Sogesca, and Mr. Claudio Rochas, representing Ekodoma). The two technical partners presented to the consortium different examples of intervention on buildings in order to act on energy efficiency. Different energy saving options, as building envelope, improved heating plants, were presented from a very practical point of view in order to give to municipalities easy clues to work on when they will be back in their realities.

After this useful preparatory presentation, the consortium was divided in 3 groups of work, that had to work together asking all partners to actively participate to debates on:

- Availability of data on heat, electricity and water consumption in their public buildings
 - Saving potential on public buildings stock
 - Targeting Energy Savings
 - EEI Measure
 - Availability of founding (European, national, regional, local...)
 - Public Document for ESCO
- Study Tour at the Nursing Center for Elderly People - Photovoltaic and Solar System on public buildings (Municipality of Alba Iulia), lead by Nicolaie Moldovan.
 - During the study tour the Director of the Public Transportation of Alba Iulia, Mr. Andres Dan Darja, presented the peculiarities of this system of transportation, i.e. a special filter invented by a Romanian scientist that reduce consumes of these buses.
 - Mr. George Lorincz had the chance to show the photovoltaic system installed in this center, that is similar to other photovoltaic systems installed in other public buildings in Alba Iulia. It was showed the simplified scheme of the installation for the electric energy generation and their benefits for the management of the consumptions of the Center.

- At the end of the tour the Director of ALEA (Mr. Florin Andronescu) explain to the consortium the experience of a small city in creating a sustainable energy action plan, hoping that this example could be a spur for the small conurbation towns attending the tour.

A satisfaction evaluation of the training seminar lead by ALBEA took place at the end of the meeting. More than 85 % of the consortium participants were satisfied with the content of the seminar and the way it was organized.

THIRD TRAINING SEMINAR (LIMASSOL)

The third training seminar was held in Limassol (Cyprus) between 4th – 5th October 2012. Training seminar has started after project management meeting and discussions over the interim progress of the project and reporting tools accordingly with the Contract conditions and IEE guides.

- TIMISOARA presented to the consortium its participation to the IEE contractors meeting, sharing with the consortium the experience and the following expectations.
- In the first day, a very important and fruitful part of the training seminar in Limassol was the part dedicated to tutoring cities at work. This session divided the consortium in 2 working groups in which Padova and Alba Iulia (the experienced / tutoring cities) worked with their group of four trainee Municipalities on their needs and expectations regarding the elaboration of BEIs and SEAPs.
- In this working session, the twin cities worked together to organize their peer-to-peer activities and visits and following the monitoring of their tutoring partners.
- In the second part of the seminar -“Thinking how the forums will be organized in partners’ areas”, were discussed:
 - how to organize local forums,
 - what topics will be discussed;
 - who will discuss;
 - who will be invited.
- It was a very interactive session due to the fact that after a technical/theoretical presentation of EKODOMA regarding the content and the structure of an ideal forum, all the participants were divided in groups that worked together in order to simulate a debate in a forum dedicated to energy policy/environment problems, policies, actions.
- This proactive manner of organizing the session accommodate all the participants with a very good understanding of what is a forum dedicated to policy energy issues and why is important to have all the key role players involved in the process of SEAPs elaboration.

In the second part of the seminar, took place a workshop focused on the development of SEAP. The workshop was entitled: “Talking about SEAP creation” and mainly addressed to the following issues:

- Thinking about actions: “soft actions”, set of “conurbation” actions; passive actions;
- How to consider the participative processes to focus on SEAP;
- Joint SEAPs and new CoMO guidelines: is it possible to apply them to the Conurbant project?
- Presenting some case studies of SEAP writing: Padova, Timisoara.

A satisfaction evaluation of the training seminar lead by ALBEA took place at the end of the meeting. More than 85 % of the consortium participants were satisfied with the content of the seminar and the way it was organized.