

0.T2.3

Trainings_transnational master scheme

Version 1

Project index number and acronym	CE496 Cities for a Good Energy Governance
Lead partner	SIPRO Development Agency-Ferrara
Output number and title	Output O.T2.3 Training scheme for the Energy Units
Responsible partner (PP name and number)	PP2 - City of Bydgoszcz
Project website	https://www.interregcentral.eu/Content.Node/CitiEnGov.html
Delivery date	12/2018

Summary description of the implemented training measure(s), explaining the specific goal(s) and target groups

The main purpose of the “Training module for competency development of energy units” is the improvement of energy management units by addressing both the technical competences and institutional capacity (for improving the municipal energy planning and increasing political engagement).
The master version of the training module covering, in general, all training needs defined by the PP. Based on this version PP have prepared individual (national) training modules which meet their specific needs and will be coherent with this master version.
Interests of Energy Units concern a very wide range of issues. Main topics and skills identified by project partners focus mostly on technical, analytical, behavioural & educational, financial aspects.
There are differences in training needs defined by the PP. Those differences reflect a different level of advancement of the energy management in public authorities in the regions of Central Europe. This also bases on the state of energy management of the country of the region, as countries like Italy, Germany and Austria have more advanced energy management (i.e. the energy management has been introduced earlier than in post-communist countries). Poland, Slovenia, Croatia and Hungary, which have a shorter history of energy management still lack the capacity for it in public authorities. The role of energy management (in the public authorities policy context) is, for example, higher in Italy and Austria than in Poland and Hungary, where it still plays a minor role for public authorities.

NUTS region(s) where training(s) have been conducted (relevant NUTS level)

ITH56, Ferrara
PL613, Bydgosko-Toruński
AT224, Oststeiermark
HR035, Splitsko-dalmatinska županija
PL12A, Warszawski-zachodni
SI023, Goriška
HU321, Hajdú-Bihar
SI022, Gorenjska
DE115, Ludwigsburg

Expected impact and benefits of the trainings for the concerned territories and target groups

The training schemes implemented have contributed to the enhancement of the institutional know how and the creation of new positions, more skilled and technical, within the involved authorities. In relation to this, the adoption of overall 26 new energy tools (including SEAP, SECAP, Energy Plan) assures a long term approach and a formal commitment for the next years.

Sustainability of the training(s) and developed training material(s) and their transferability to other territories and stakeholders

The training scheme has been defined at transnational and local level.
All partners collaborated on the definition of the topics of the transnational version of the video
<https://www.youtube.com/watch?v=yBWTElqBhfg>

Trainings videos have been implemented by all the PPs: 1 transnational version + 18 national versions

Lessons learned from the development and implementation of training measures and added value of transnational cooperation

Throughout the research and elaboration of the topics identified by all project partners, also taking into account the general requirements of Energy Unit and its role for public administrations, different modules have been comprised. These modules cover similar topics and also form a master training module. The training modules has been set up from more general into more detailed specific contexts (from strategy, through finance and project management into technical issues). Communication is the last module and reflects the need of dissemination of results to a wider public. Transnational cooperation enable all the PPs to see how more or less same challenges are tackled in different parts of Europe.

Based on project partners' input specific differences and similarities have been identified within defined modules:

MODULE 1 - Strategy and planning

This module focuses on energy planning in the city scale including air quality issues.

<u>FIELD</u>	<u>GENERAL TOPICS</u>
<u>Sustainable energy planning</u>	<ol style="list-style-type: none"> 1. <u>SECAP process:</u> <ol style="list-style-type: none"> a. <u>elaboration</u> b. <u>implementation</u> c. <u>reporting</u> 2. <u>Development of other energy strategies incl. energy efficiency.</u> 3. <u>Sustainable mobility planning.</u> 4. <u>Spatial planning in the context of sustainable energy.</u>
<u>Legal framework</u>	<ol style="list-style-type: none"> 1. <u>Energy and climate-related legislation (EU/national).</u> 2. <u>Specific operative regulations (at local level).</u>

MODULE 2 - Finance and project management

This module should give advanced, practical knowledge regarding financing of EE and RES projects as well as improving project management.

<u>FIELD</u>	<u>GENERAL TOPICS</u>
<u>Finance</u>	<ol style="list-style-type: none"> 1. <u>Investment cost estimation.</u> 2. <u>Financial and economic analysis.</u> 3. <u>Financial incentives for energy efficiency and RES.</u> 4. <u>Funding sources for EE & RES including pilot project financing.</u> 5. <u>ESCO and energy performance contracting.</u> 6. <u>Energy purchasing, energy trade.</u> 7. <u>Sustainable procurement.</u>
<u>Project management</u>	<ol style="list-style-type: none"> 1. <u>International project management skills.</u> 2. <u>Project promotion.</u>

MODULE 3 - technical knowledge of energy management

Covers essential technical knowledge needed in the energy unit

<u>FIELD</u>	<u>GENERAL TOPICS</u>
<u>Energy management</u>	<ol style="list-style-type: none"> 1. <u>Energy management systems (e.g. ISO 50001) - concept, implementation, management (incl. Auditing).</u> 2. <u>Energy efficient public utility systems:</u> <ol style="list-style-type: none"> a. <u>Energy efficient street lighting;</u> b. <u>Energy efficiency in water and wastewater facilities;</u> c. <u>Energy efficiency in district heating systems.</u> 3. <u>Energy efficiency in public buildings, incl.:</u> <ol style="list-style-type: none"> a. <u>low energy / passive building construction;</u> b. <u>energy renovation of existing buildings;</u> c. <u>operative energy efficiency of buildings.</u> 4. <u>Energy management in transport, incl.:</u> <ol style="list-style-type: none"> a. <u>ICT traffic management;</u> b. <u>e-mobility infrastructure.</u> 5. <u>Cogeneration and trigeneration.</u>
<u>Energy data management</u>	<ol style="list-style-type: none"> 1. <u>Energy database development.</u> 2. <u>Energy database management.</u> 3. <u>Energy related measurements - metering, temperature control, humidity, ventilation control etc.</u> 4. <u>ICT controlling systems.</u> 5. <u>Data analysis (esp. identification of savings).</u> 6. <u>GIS - databases integration.</u>
<u>Renewable energy sources</u>	<ol style="list-style-type: none"> 1. <u>Units installation and operation (incl. certification)</u> 2. <u>Technologies - including new and developing technologies available.</u> 3. <u>Analysis of RES potential in the city.</u> 4. <u>The inclusion of RES in public and private investments.</u>
<u>Air quality</u>	<ol style="list-style-type: none"> 1. <u>Air pollution - scientific background.</u> 2. <u>Air quality management and monitoring at the local level, emission sources monitoring and management.</u> 5. <u>Air quality information and education.</u>

MODULE 4 - communication and public awareness

This module focuses on increasing competences of energy units regarding interaction with interested public and stakeholders. It deals with public issues, such as citizen engagement (and there lack of) and importance of proper communication with wider public.

<u>FIELD</u>	<u>GENERAL TOPICS</u>
<u>Citizen engagement</u>	<ol style="list-style-type: none"> 1. <u>Awareness raising (esp. in schools).</u> 2. <u>Incentives for behavioural change.</u> 3. <u>Social media.</u>
<u>Communication and soft skills</u>	<ol style="list-style-type: none"> 1. <u>Communication skills (internal/external).</u> 2. <u>Consultation with experts.</u> 3. <u>Intercultural networking skills and knowledge transfer.</u> 4. <u>Problem-solving, solution-oriented thinking.</u>

A transnational training session has been organized and directed by PP9 Dedagroup on 18/01/2019 about energy data management. Several partners and local stakeholders participated to the web seminar.

References to relevant deliverables and web-links If applicable, pictures or images to be provided as annex

Deliverables: D.T.2.2.1, D.T.2.2.2, D.T.2.2.3, D.T.2.2.4
 Weblink: <https://www.youtube.com/watch?v=yBWTEIqBhfg>

O.T2.3

PP2 City of Bydgoszcz

Version 1

Project index number and acronym	CE496 Cities for a Good Energy Governance
Lead partner	SIPRO Development Agency-Ferrara
Output number and title	Output O.T2.3 Training scheme for Energy Units
Responsible partner (PP name and number)	PP2 City of Bydgoszcz
Project website	https://www.interregcentral.eu/Content.Node/CitiEnGov.html
Delivery date	12/2018

Summary description of the implemented training measure(s), explaining the specific goal(s) and target groups

The main purposes of the 3 trainings organized in Bydgoszcz have been to::

- Organize technical training for the certificate of electrical and other qualifications. Staff will get certificate from the Office of Technical Inspection confirming the qualifications to install and diagnose various electric and heat installations. (19/11/2018)
- Present the database which will be implemented in the City of Bydgoszcz for better energy management (Idea and benefits behind energy database implementation based on financial analysis, Overview about existing systems and need of aggregating data regarding energy in City of Bydgoszcz and our units, Workshops and Implementation of database) (26-27.11.2018 and 25.04.2019)
- Increase knowledge about energy accounting, energy usage, energy conservation measures, organisational measures (Energy accounting - usage and application, Energy usage - how energy efficient is their school, Energy conservation measures - what can we do to lower energy consumption, Organisational measures - save energy with no cost) (08-10.05.2019 - 27-28.05.2019)

NUTS region(s) where training(s) have been conducted (relevant NUTS level)

PL613, Bydgosko-Torunski

Expected impact and benefits of the trainings for the concerned territories and target groups

At the end of the first training session (19/11/2018) 4 employees from En4PA have gotten the certificates of electrical and other qualifications
The second training have been organized for accountants and other people working in En4PA of City of Bydgoszcz, responsible for dealing with payments which includes spending on energy.
The third training session was organized to make the public administration aware of issues related to energy data management.

Sustainability of the training(s) and developed training material(s) and their transferability to other territories and stakeholders

City of Bydgoszcz realized 2 national training videos

Lessons learned from the development and implementation of training measures and added value of transnational cooperation

The training sessions have been a great support to local public authorities and technicians in the enhancement of knowledge about energy efficiency

References to relevant deliverables and web-links If applicable, pictures or images to be provided as annex

Deliverables: D.T.2.2.1, D.T.2.2.2, D.T.2.2.3, D.T.2.2.4
Weblink: <https://www.youtube.com/watch?v=ZK1GhB2npF4>
<https://www.youtube.com/watch?v=l41TUiWeojw>





0.T2.3

Trainings_PP6 GOLEA

Version 1

Project index number and acronym	CE496 Cities for a Good Energy Governance
Lead partner	SIPRO Development Agency-Ferrara
Output number and title	Output O.T2.3 Training scheme for Energy Units
Responsible partner (PP name and number)	PP2 City of Bydgoszcz
Project website	https://www.interregcentral.eu/Content.Node/CitiEnGov.html
Delivery date	12/2018

Summary description of the implemented training measure(s), explaining the specific goal(s) and target groups

The scope of the trainings organized in Nova Gorica was:

_to invite representant from Slovenian Ministry which will present to participants the national energy legislation with emphasis on the Decree on energy management in the public sector which was adopted in 2016.

From 31/12/2017 local authorities in Slovenia are obliged to introduce the energy management and to introduce the energy accounting within the public buildings. Energy accounting includes the information on the type, price and quantities of consumed energy (the requested data are filled in national platform by local administrators with support of municipal energy managers).

_to present to the participants the updated energy management system by GOLEA staff

GOLEA has, as an energy manager of 23 Primorska municipalities, in year 2011 introduced the energy management system, which has been updated in 2018. Through this event the updated system sections will be presented in detail as well as new functions/graphics/data that are offered by the updated system. In addition new knowledge in connection to energy management systems and energy data management that was obtained through EUREM training will be also presented.

The scope is to enhance the importance of enriching the existing energy databases, to implement the energy database management, as well as to present the importance of implementation of energy measurements within the buildings, the installation of ICT controlling systems and the elaboration of collected data with the aim to define possible energy savings.

_to present to participants available financial incentives for increasing energy efficiency and RES as well as for implementation of pilot projects, also through private-public partnership.

_to transfer to participants new knowledge and data within the RES and EE field by GOLEA staff (source: EUREM training and other workshops, roundtables, etc.)

The transferred data will include the use of RES within the buildings, energy efficient technologies, introduction of new energy efficient technologies, energy conscious buildings and their renovation.

NUTS region(s) where training(s) have been conducted (relevant NUTS level)

SI0 Slovenia

SI04 Western Slovenia

SI023 - Goriška

The municipalities and institutions/organisations from all Slovenian territory participated at the training event.

Expected impact and benefits of the trainings for the concerned territories and target groups

The training has been organized for: Municipal legal representatives - mayors and other public administration that is working in the field of RES and EE, energy managers

The main benefits of the training were the increase of the competences of energy unit staff in the municipal buildings and other public institutions the field of renewable energy sources and energy efficiency about the following topics:

- national energy legislation with emphasis on the Decree on energy management in the public sector,
- existing financial incentives and funding sources for raising EE and RES in the public buildings, possibilities of financing of pilot projects also through private-public partnership,
- benefits of energy management system and energy data management within the public buildings,
- transferring new knowledge and data about the use of RES within the buildings, EE technologies the renovation of public buildings and their financing.

Sustainability of the training(s) and developed training material(s) and their transferability to other territories and stakeholders

Golea has chosen the following issue between the 4 module defined in the transnational scheme:

MODULE 1 - Strategy and planning

MODULE 2 - Finance and project management

MODULE 3 - Technical knowledge of energy management

The list can be used and the proposed scheme replicated for other training sessions in other regions.

Golea realized a video that is showing that the buildings sector offers sizeable potential for energy savings. In fact introduction of EE technology, well insulated walls and roofs, double or triple glazed windows or more efficient heating/cooling systems can significantly reduce the energy consumption in buildings. It shows that improved energy efficiency can be achieved also through behaviour change of building users and that reducing energy consumption leads to the reduction of greenhouse gas (GHG) emissions.

Lessons learned from the development and implementation of training measures and added value of transnational cooperation

The training involved 37 public administrators, mayors and energy managers and was useful for support to local public authorities, sharing and dissemination of the results, enhancement of knowledge about energy efficiency.

References to relevant deliverables and web-links
If applicable, pictures or images to be provided as annex

Deliverables: D.T.2.2.1, D.T.2.2.2, D.T.2.2.3, D.T.2.2.4

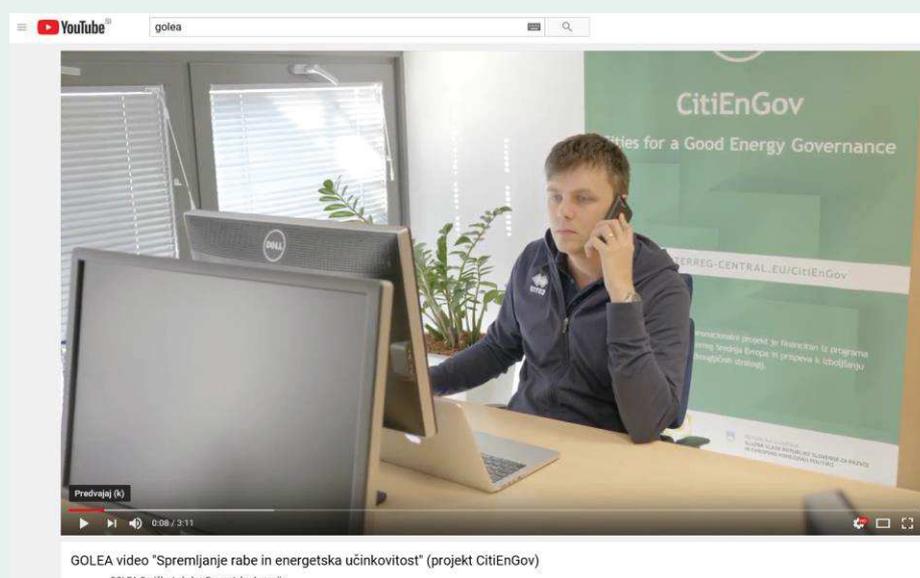
Weblink to training event and ppt presentations of the relators:

<https://www.golea.si/blog/2019/01/31/izjava-za-javnost-3-2-2-2-4/>



Weblink to video:

<https://www.youtube.com/watch?v=zfT-NoHv1hw>



0.T2.3

Trainings_PP5 Grodzisk

Version 1

Project index number and acronym	CE496 Cities for a Good Energy Governance
Lead partner	SIPRO Development Agency-Ferrara
Output number and title	Output O.T2.3 Training scheme for Energy Units
Responsible partner (PP name and number)	PP2 City of Bydgoszcz
Project website	https://www.interregcentral.eu/Content.Node/CitiEnGov.html
Delivery date	12/2018

Summary description of the implemented training measure(s), explaining the specific goal(s) and target groups

The Municipality of Grodzisk organized 3 training sessions for 18 technicians and Municipal Police:

1. Air-pollution and smog-related issues for Municipal Police staff (19-20/05/2018)
2. Clean coal burning in coal heating systems for Municipal staff and police (17/06/2018)
3. Clean Air (Czyste Powietrze) - implementation of Polish National Programme for Air-Pollution Mitigation for Municipal staff and police (11 March and 12 March 2019)

The main purpose of the trainings was to provide Municipal staff and police officers in Grodzisk Mazowiecki with knowledge about:

Training 1

- Role of Municipal Police in execution and application of the Polish Environment Protection Act
- Regulations for quality of fuels used by citizens for heating private properties
- Legal regulations regarding the execution of controlling activities on private properties
- Solution of problems occurring during controlling activities
- Correct protocolling of the above activities

Training 2

- The process of coal burning in typical heating ovens as found in private buildings
- Dependence of smoke production during the process of coal burning and the way of coal burning
- Difference between bottom-up and top-down process of coal burning
- Difference of smoke production during these processes
- Presentation of the 2 burning processes and comparison of the smoke production
- Presentation of proper top-down coal burning
- Test of taking measures of the smoke quality by the Municipal Police drone.

Training 3

- New regulation for the new Clean Air National Programme
- Role of municipalities in the implementation of the programme
- The construction of the programme
- Responsible bodies
- The application form for the programme - correct filling-in etc.
- The programme budget - the estimation of programme spending during the first year of implementation
- Programme website and finding necessary information
- Contact points and information possibilities

NUTS region(s) where training(s) have been conducted (relevant NUTS level)

PL12A, Warszawski-zachodni

Expected impact and benefits of the trainings for the concerned territories and target groups

The training measures are useful for Municipal Police officers, Energy Unit Staff and Environment Protection Department Staff.

Training 1 provided Municipal Police officers with necessary knowledge for executing control activities on private properties regarding correct heating. Dealing with private citizens polluting the air by incorrect burning of solid fuels in private heating systems is a new task for the Municipal Police, thus the officers needed training, which will also allow them to educate citizens during visits on private properties. Thus the knowledge about air-pollution mitigation will be transferred by police officers directly to citizens.

Training 2 provided police officers and Municipal staff with empirical experience on the effects of correct and incorrect use of solid fuel heating systems, including the possibility to identify probable incorrect burners by eyesight. Additionally, the training was open to the public and gained a lot of interest, which gave to it a educational dimension for the general public. Furthermore, during the training Municipal Police practices taking measurements by its air-pollution-measurement-drone purchased before the training. This was also shown to the public, thus spreading the information about the drone being implemented in the Municipality among general public.

Training 3 was theoretical and provided the most up-to-date information about a new national policy and funding scheme called “Clean Air” (“Czyste powietrze”), which includes a number of financial incentives for private buildings to become more energy efficient. This was important, as the Municipal staff and police will help citizens with applying to the scheme.

Sustainability of the training(s) and developed training material(s) and their transferability to other territories and stakeholders

2 of three trainings were documented by means of a video. The demonstration of correct coal burning and taking measurements by the air-pollution-drone was filmed and can be easily shown at various occasions, including schools, public conferences, meetings with citizens etc. The proactive role of Municipal Police and staff in combating air-pollution in the Municipality as well as educating the citizens and helping them with application for funds can be used as a best practice model for other Municipalities in Poland and other CE regions.

Lessons learned from the development and implementation of training measures and added value of transnational cooperation

Lessons learned: The Municipal Police can play a very active and positive role in educating citizens regarding their energy efficiency and air pollution behavior, provided that the police is well trained for this purpose. The Municipal staff can play a very proactive role in changing the habits of the citizens by providing them with correct and state-of-the-art information.

Added value: The awareness of the importance of air pollution was also enhanced among the Municipal staff and police officers, by which the issue gained new advocates.

References to relevant deliverables and web-links If applicable, pictures or images to be provided as annex

Deliverables: D.T.2.2.1, D.T.2.2.2, D.T.2.2.3, D.T.2.2.4

Weblink: <https://www.youtube.com/watch?v=IKMuAOf3s4>

<https://www.youtube.com/watch?v=XPJr3RcsA3M>

0.T2.3

Trainings_PP7 HBMO

Version 1

Project index number and acronym	CE496 Cities for a Good Energy Governance
Lead partner	SIPRO Development Agency-Ferrara
Output number and title	Output O.T2.3 Training scheme for Energy Units
Responsible partner (PP name and number)	PP2 City of Bydgoszcz
Project website	https://www.interregcentral.eu/Content.Node/CitiEnGov.html
Delivery date	12/2018

Summary description of the implemented training measure(s), explaining the specific goal(s) and target groups

The training was designed to provide to 20 technicians of the agency's energy staff a knowledge base that can update current knowledge and training in new areas (communication, problem management). Another important priority of the training was to provide a basic knowledge of energy for new colleagues who are not yet involved in energy management but are aiming to work in this area in the future. The areas provided by the training module cover the basic knowledge requirement that provides a starting point for the task of filling an energetic job.

NUTS region(s) where training(s) have been conducted (relevant NUTS level)

HU321, Hajdú-Bihar

Expected impact and benefits of the trainings for the concerned territories and target groups

The trainings measures were useful for energy managers of the Agency

Sustainability of the training(s) and developed training material(s) and their transferability to other territories and stakeholders

The HBMO County realized a national training video

Lessons learned from the development and implementation of training measures and added value of transnational cooperation

Useful for support to local public authorities, sharing and dissemination of the results, enhancement of knowledge about energy efficiency

References to relevant deliverables and web-links If applicable, pictures or images to be provided as annex

Deliverables: D.T.2.2.1, D.T.2.2.2, D.T.2.2.3, D.T.2.2.4

Weblink: <https://www.youtube.com/watch?v=58jys8Qx3m0>

O.T2.3

Trainings_PP8 Leag

12/2018

Project index number and acronym	CitiEnGov CE496
Lead partner	SIPRO Development Agency-Ferrara
Output number and title	O.T2.3 Training scheme for the Energy Units
Responsible partner (PP name and number)	PP2 - City of Bydgoszcz
Project website	https://www.interreg-central.eu/Content.Node/CitiEnGov.html
Delivery date	12/2018

Summary description of the implemented training measure(s), explaining the specific goal(s) and target groups

We worked on O.T2.2 Training for improving competences of Energy Units and O.T2.3 Training scheme for the Energy Units. We created presentations for municipalities and organized trainings. We were mostly dealing with different municipalities in Gorenjska region. We organized 5 trainings for competency development of energy units in municipalities Jezersko, Jesenice, Tržič, Kamnik and GVP where we presented the CitiEnGov project outputs and tackle same issues in energy fields that are suitable for individual municipality. The goal was to implement unique training for each municipality. Target groups were in most cases employees in municipalities, but in Municipality Jesenice we organize training for teachers and janitors in school. In municipalities we were talking mostly about public tenders, best energy practices, innovative financing of energy related projects, whereas in schools we talked about energy efficient ventilation, heating efficiency, organizational measures etc.

NUTS region(s) where training(s) have been conducted (relevant NUTS level)

LEAG's main activities are dealing with energy management for Municipalities in Gorenjska region, therefore trainings were conducted in municipalities in Gorenjska or that are bordering to Gorenjska (Municipality Kamnik). This area is defined as SI04 (NUTS level 1).

Expected impact and benefits of the trainings for the concerned territories and target groups

Impacts in municipalities were very important. Municipality Kamnik started with new energy management system, that enables to save and analyze data from the cloud. Before the implementation of this system the data was collected in excel. In Municipality Tržič we mostly trained staff in new financial initiatives. We presented the terms of new tender that enabled municipalities to apply for energy refurbishment of municipal building. In municipality Jezersko we presented mostly financial and technical challenges of district heating systems in smaller municipalities where usage of heat in system is small (low energy usage per m of pipes). The goal in Primary School Jesenice was to show employees that savings in energy is also possible without investing costs - only with the change of behavior.

Sustainability of the training(s) and developed training material(s) and their transferability to other territories and stakeholders

Because our stakeholders are mostly connected with municipalities, we could be implementing these trainings also in the future. For example in Municipality Preddvor we organize Energy Café regarding district heating at the beginning of the CitiEnGov project. This knowledge and experiences were later used for training in Municipality Jezersko. We could also transfer this experiences to other stakeholders for example ESCO companies that are dealing with investments in municipalities.

Lessons learned from the development and implementation of training measures and added value of transnational cooperation

What have we learned from trainings and energy Cafes:

- Topics need to deal with municipality's "burnning issues" (that is the reason that some trainings/energy cafes were visited by 50 people and some were only visited by 5 people)
- Advertising only through social media is not enough
- Connectivity between different sectors in municipalities is in some cases on very low level

Transnational cooperation enable us to see how more or less same challenges are tackled in different parts of Europe. We for example realize why district heating system works beautifully in Weiz but the same cannot be said for other district heatings in Slovenia.

References to relevant deliverables and web-links

If applicable, pictures or images to be provided as annex

Deliverables: D.T.2.2.1, D.T.2.2.2, D.T.2.2.3, D.T.2.2.4



0.T2.3

Trainings_PP10 City of Ludwigsburg

Version 1

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Summary description of the implemented training measure(s), explaining the specific goal(s) and target groups

For the training scheme Ludwigsburg chose module 2 - Finance and project management

Field: Finance

General topics: Sustainable procurement

The training took place on 13.06.2018 with 26 participants.

The training scope was to investigate the new guidance for sustainable procurement.

In April 2018 a new guidance for sustainable procurement became effective. The sustainable procurement is inspired by the Cradle-to-Cradle® concept and the target is the preferred procurement of healthy and circular products. In order to raise the awareness and prepare the employees for the application of the new processes a series of education sessions has been conducted. The Energy Unit is the leading unit for this topic.

Main contents of the training scheme:

- What is sustainable procurement about?
- How to implement sustainable procurement in a Public Administration?
- Processes of sustainable procurement

NUTS region(s) where training(s) have been conducted (relevant NUTS level)

DE115, Ludwigsburg

Expected impact and benefits of the trainings for the concerned territories and target groups

The trainings measures are useful for employees of the Public Administration of the City of Ludwigsburg and staff members who are responsible for the general procurement within the Public Administration or for external events organized by the Public Administration. The City of Ludwigsburg expects to have lower CO2 emission by procuring sustainable materials. The PA wants to act as an example, expecting other administrations and companies to follow.

Sustainability of the training(s) and developed training material(s) and their transferability to other territories and stakeholders

The training materials can be used for following trainings within the PA of Ludwigsburg as well as in other administrations/cities. Even companies could follow the example and also use the training materials. The City of Ludwigsburg realized 1 training video about the work of the energy Unit.

Lessons learned from the development and implementation of training measures and added value of transnational cooperation

The basics why sustainable procurement is related to energy savings and the reduction of CO2 emissions are not widespread. This has to be explained in a first step. That's why Ludwigsburg realized the film about the work of the Energy Unit. The training could be useful for supporting local public authorities, sharing and dissemination of the results

References to relevant deliverables and web-links If applicable, pictures or images to be provided as annex

Deliverables: D.T.2.2.1, D.T.2.2.2, D.T.2.2.3, D.T.2.2.4

Weblink: <https://www.youtube.com/watch?v=ywztpYxft0>



Nachhaltige Beschaffung auf Basis der C2C Prinzipien

Informationsveranstaltung
Referent



Beratung für Nachhaltigkeit und Transformation - Jeannette Jäger



0.T2.3

Trainings_LP Sipro

Version 1

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Summary description of the implemented training measure(s), explaining the specific goal(s) and target groups

SIPRO Development Agency organized 4 trainings on different topics:

1. Energy and climate: sustainability in construction (29/10/2018)

Introduction and implementation of the new Energy Efficiency regulations for public buildings that will effect the energy unit:

- what changes come in effect on a national level
- how to implement it on a regional level

How single municipalities can effectively implement the changes.

Changes in the energy certification for public buildings.

New regulations for Renewable energy and thermal installations for public buildings.

2. Minimum energy efficiency requirements for public buildings according to the latest update. (14/11/2018)

Introducing the criteria and the minimum requirements for Energy Efficiency for public buildings including:

- construction of new buildings
- criteria when renovating old buildings

Energy certification aspects in the context of the updated criteria.

Proposal for EE solutions for new and existing buildings.

3. Introduction of the new urban planning regulations updated from the regional urbanistic office of Emilia Romagna in the context of Energy Efficiency. (21/11/2018)

- How energy efficiency can affect urban planning.
- How energy measurement and certification are effected
- Practical implications for a single municipality

Near zero energy buildings in the context of urban planning.

4. The urban micro climate (05/12/2018)

The training presented nature based solutions, resilience and climate change in the urban areas

NUTS region(s) where training(s) have been conducted (relevant NUTS level)

ITH56, Ferrara

Expected impact and benefits of the trainings for the concerned territories and target groups

The trainings measures are useful for the Energy Unit and other technicians of the Municipality of Ferrara and private engineers and architects interested in these topics. About 35 technicians participated to more than 2 of the 4 organized events.

Sustainability of the training(s) and developed training material(s) and their transferability to other territories and stakeholders

Sipro realized a video about the increase of the knowledge of the energy unit.
The training scheme implemented in Ferrara could be replicated in other Regions interested on deepen knowledge about energy efficiency, energy planning and relation between climate change and energy efficiency

Lessons learned from the development and implementation of training measures and added value of transnational cooperation

The training sessions have been a great support to local public authorities and technicians in the enhancement of knowledge about energy efficiency

References to relevant deliverables and web-links If applicable, pictures or images to be provided as annex

Deliverables: D.T.2.2.1, D.T.2.2.2, D.T.2.2.3, D.T.2.2.4

Weblink: <https://www.youtube.com/channel/UCQrCPEIn2nDvgsBAUMyqRcA/videos>





0.T2.3

Trainings_PP4 City of Split

Version 1

Project index number and acronym	CE496 Cities for a Good Energy Governance
Lead partner	SIPRO Development Agency-Ferrara
Output number and title	Output O.T2.3 Training scheme for Energy Units
Responsible partner (PP name and number)	PP2 City of Bydgoszcz
Project website	https://www.interregcentral.eu/Content.Node/CitiEnGov.html
Delivery date	12/2018

Summary description of the implemented training measure(s), explaining the specific goal(s) and target groups

The CitiEnGov project has enabled the City of Split to held training on Energy Efficiency in Public administration. Accordingly from January 28th to 30th 2019. in cooperation of City of Split, Split Energetic Society and Chamber of Commerce Split, education on Energy Efficiency and the use of Renewable Energy Sources in Public administration in Urban Agglomeration Split was carried out. Education for 20 people covered three main themes: Legal framework and financial resources for Energy Efficiency, Energy management and Energy data management. Lecturers were experts in these areas and are all members of the Split Energetic Society. The cooperation of the City of Split with the Society was established by the need for quality education in several areas of Energy Efficiency, and the Society as a branch of the Croatian Energetic Association of Split has long experience in this field.

The Split Energetic Society, in co-operation with the Croatian Energetic Association, regularly organizes preparatory courses for all programs of professional training and assessment of knowledge for the management of Energetic plants. In its membership, it brings together relevant Energy experts and Financial-legal experts in aspect of buildings, heating and public lighting systems as well as IT professionals in terms of processing and use of Energy data. Subdivision of the Croatian Energetic Association Split started work in 1957. and the Split Energetic Society was founded in 1993. for the purpose of gathering Energy experts.

This project has enabled the City of Split to use Energy Efficiency and Renewable Energy Sources as a step towards more efficient management of the Public energy resources that the city of Split has, as well as achieving Energy savings through Energy Efficiency measures. Thus, this education covered the area of public buildings and public lighting with a special scope in the direction of applying Energy Efficiency.

NUTS region(s) where training(s) have been conducted (relevant NUTS level)

HR035, Splitsko-dalmatinska županija

Expected impact and benefits of the trainings for the concerned territories and target groups

The trainings measures are useful for the 20 Representative of City of Split, Split Energetic Society and Chamber of Commerce Split

Sustainability of the training(s) and developed training material(s) and their transferability to other territories and stakeholders

The City of Split realized 1 Training video

Lessons learned from the development and implementation of training measures and added value of transnational cooperation

The possibility of cooperating on a transnational scale is a great added value for the implementation of energy Units and their skills. For each partner it was very important to understand how other subjects had already faced and solved certain problems and above all share the different experiences to work together with the increase of the skills of the energy units.

References to relevant deliverables and web-links If applicable, pictures or images to be provided as annex

Deliverables: D.T.2.2.1, D.T.2.2.2, D.T.2.2.3, D.T.2.2.4
Weblink: https://www.youtube.com/watch?v=J_jJ3KGpg10



0.T2.3

Trainings_PP3 WEIZ

Version 1

Project index number and acronym	CE496 Cities for a Good Energy Governance
Lead partner	SIPRO Development Agency-Ferrara
Output number and title	Output O.T2.3 Training scheme Energy Units
Responsible partner (PP name and number)	PP2 City of Bydgoszcz
Project website	https://www.interregcentral.eu/Content.Node/CitiEnGov.html
Delivery date	12/2018

Summary description of the implemented training measure(s), explaining the specific goal(s) and target groups

Weiz organized 3 training sessions:

1st training model for the Energy Units in Weiz on 21/09/2018 (18 participants).

The training scope was:

- Presentation of the Energy City Tour
- Passive house
- Ice Storage Technology
- Heat pump

2nd training model for the Energy Units in Weiz on 06/12/2018 (15 participants)

The training scope was the presentation of:

- SECAP process
- Energy Cadastre
- Energy Balance
- Energy Spatial Planning

3rd training model for the Energy Units in Weiz on 11/12/2018 (13 participants)

The training scope was the presentation of:

- Electricity balance/requirements, PV systems, blackout protection
- Use of biogas/sewage gas & use of biogas and electricity
- solar hybrid collector
- hydrogen technology
- Boiler systems and district heating network/biomass as a long-term energy store
- District heating feed ORC
- Heat protection, Green gases

NUTS region(s) where training(s) have been conducted (relevant NUTS level)

AT224, Oststeiermark

Expected impact and benefits of the trainings for the concerned territories and target groups

The trainings measures are useful for public authorities and citizens in the city of Weiz and the Associated partners: Stadtgemeinde Weiz;

Sustainability of the training(s) and developed training material(s) and their transferability to other territories and stakeholders

Weiz realized 9 short national training videos

Lessons learned from the development and implementation of training measures and added value of transnational cooperation

Useful for support to local public authorities, sharing and dissemination of the results, enhancement of knowledge about energy efficiency

References to relevant deliverables and web-links
If applicable, pictures or images to be provided as annex

Deliverables: D.T.2.2.1, D.T.2.2.2, D.T.2.2.3, D.T.2.2.4

Weblink: <https://www.youtube.com/channel/UCQrCPEln2nDvgsBAUMyqRcA/videos>

