



Project Partners Summary feeding the subsequent report of the Expert Panel – July 2012

The aim of this questionnaire is to map the state of progress of the pilots based on the feedbacks of partners responsible for each pilot implementation. This will provide a major input for the 2nd report of the Expert Panel of GovernEE, which, among others, will evaluate the latest project outputs, the revised outputs, as well, as the state of progress of the pilots. By doing so, the report shall have a clear, objective, and useful evaluation on the project’s development.

Project partners responsible for the certain pilots are kindly asked to fill in the table below and send back to the Expert Panel Coordinator at hengerritse@eu-liaison.eu till **13 July, 2012** to facilitate the external evaluation of the project results made by the Expert Panel.

Number and Name of the Pilot	Pilot 2: Efficient use of renewable energy sources in heating historic buildings (Activity 4.3) – Quedlinburg
Responsible Project Partner	Bologna & Quedlinburg
Partners in the cluster	CETA & CERE
Short description of the pilot as stated in the AF	The pilot will consist of the installation of a specific kind of photovoltaic panel on the roof of a historic building under monumental protection. Due to the fact that the status of the City as UNESCO world heritage even bring about more sever protection obligations than the regular monumental protection already does, the city cannot install the usual type of photovoltaic panels. Therefore a new type of photovoltaic panels will be tested which are able to adapt the color of the surrounding rooftop and will have a much lower degree of reflexion. Once being approved, the technique could offer an option for a sustainable future development of the historic buildings stocks in Quedlinburg and all over Europe.
Timeline as described in AF (and original implementation plan)	<ul style="list-style-type: none"> • 4.1.8 Pre-feasibility study for Quedlinburg of local potentials regarding improving EE in historic buildings: Nov 2010 (Month 6) – Aug 2011 (Month 15) • 4.1.4 Preparation of action plans and timelines for pilot implementation: March 2011 (Month 10) – Aug 2011 (Month 15) • 4.3.2 Testing photovoltaic panels in historic buildings to boost energy efficiency : Oct 2011 (Month 17) – Sept 2012 (Month 28) • 4.3.4 Tailor-made energetic plans at partner level: identification and evaluation of availability of renewable energy sources and their most efficient utilization in heating systems of historic building stocks: Dec 2011

(Month 19) – Nov 2012 (Nov 30)	
<p>Description of the pilot as it is being implemented.</p> <p>Should there be any deviations compared to the pilot described in the AF, please explain the reasons.</p>	<p>Our aim: The pilot action in Quedlinburg will consist of the installation of a specific kind of photovoltaic panel on the roof top of a historic building under monumental protection. Due to the fact that the status of the City as UNESCO world heritage even brings about more severe protection obligations than the regular monumental protection already does, we cannot install the usual type of photovoltaic panels. Their high degree of reflexion would destroy the protected view from the castle hill down on the cities’ rooftops. For this reason the City of Quedlinburg will test a new type of photo voltaic panels which is able to be adapted to the colour of the surrounding rooftops and will have a much lower degree of reflexion. This shall be tested against the protection regulations of historic buildings in general and against the special regulations in Quedlinburg. Once being approved, this technique could offer an option for a sustainable future development of the historic building stock in Quedlinburg and all over Europe.</p> <p>Part 1: The project will be implemented on the monumental administrative building “Halberstädter Straße 45”. On a part of the roof surface the selected PV modules will be installed.</p> <p>Part 2: The Fraunhofer Institute in Freiburg is with a company in the process of the development for production of tiles in combination with PV modules. We want to show this on example on a in Quedlinburg frequently used roofing tile. On the basis of the latest scientific knowledge we well show that in various roofing tiles it is possible to integration PV modules</p>
<p>Actual timeline and action plan (Should there be any deviations compared to the original timeline, please briefly explain the reasons!)</p>	<p>01 / 2011 - 09 / 2011: Search for companies and appropriate photovoltaic panels</p> <p>08./09.06.2011: Visit the world's largest trade fair for the solar industry in Munich in search of suitable modules and business contacts</p> <p>2/2012: Inquiry of all PP for suitable modules, companies and academic institutions that work on this topic</p> <p>3/2012 - 4/2012: - Evaluation of the inquires and collection of appropriate modules and listing of companies / academic institutions, which work the issue</p> <p>04/2012: Contracting an external specialist expertise to a company with the following tasks: - Provide technical evaluation of the results of inquire to the project partners - Compilation of modules suitable for a wide variety of roof structures of historic buildings</p>

	<ul style="list-style-type: none"> - Summary of advantages and disadvantages of different modules - Selection of a suitable photovoltaic panels for a concrete to even be named Public heritage building the City of Quedlinburg - Provide technical support in the practical implementation of the construction of the photovoltaic panels - Report on the state of the practical implementation of the pilot project - Identify the advantages and disadvantages of using photovoltaic panels on historic buildings and highlighting the current state of available modules at the appropriate market and current state of research <p>05/2012: Selecting a module for Quedlinburg, public procurement</p> <p>06/2012 - 12/12: Practical implementation i.e., planning procedures, approval procedures, installation of the module, test phase</p> <p>11/2012: Presentation under the Milestone 2 study visit</p> <p>01/2013 - 02/2013: Evaluation of the test phase- Final Report</p> <ul style="list-style-type: none"> - Presentation for the Final Conference in Hungary
<p>Short summary of what is the present status of the pilot? What has happened so far?</p>	<ul style="list-style-type: none"> - Search for companies and appropriate photovoltaic panels - Visit the world's largest trade fair for the solar industry in Munich - Evaluation of the inquires and collection of appropriate modules and listing of companies / academic institutions, which work the issue - Contracting an external specialist - Selection of a suitable photovoltaic panels for a concrete to even be named Public heritage building the City of Quedlinburg - Public procurement was held - today we are in practical implementation
<p>What kind of deviations in time did you meet compared to the Action Plan and timeline?</p> <p><i>(bullet points and explanation)</i></p>	<ul style="list-style-type: none"> - We have delay compared to the original Action Plan and timeline - (public procurement was finished later than originally planned,

<p>What kind of difficulties have you faced during the implementation? <i>(bullet points and explanation)</i></p>	<ul style="list-style-type: none"> - The selection of the object and the PV modules and companies was very difficult - The votes and the approval process with the conservation authorities is very complex
<p>How is transnational cooperation working during the realization of the pilot? How will it be done in the future? <i>(few sentences)</i></p>	<p>The international cooperation and exchange of experiences supports strongly one of the most important energetic development directions within the European Union. In the context of transnational cooperation is an exchange of experience in many areas around the topic EE. Many specifications and Examples from the other partner countries are useful for working in our city</p>
<p>How do you organize the transfer of know-how between the cluster members?</p>	<p>The topics were discussed through e-mails, phone calls and personal partner meetings In the future we plan to use:</p> <ul style="list-style-type: none"> - online Competence Center of GovernEE - partner meetings
<p>How do you benefit from the know-how of PPs in your cluster / in the project? <i>(few sentences)</i></p>	<p>Use of experiences and best practices in the study and the report of the project</p>
<p>What do you consider important from the lessons already learnt to transfer to project partners? <i>(3-5 sentences)</i></p>	<ul style="list-style-type: none"> - Selection of objects to plan carefully - each listed building requires an individual decision - Energy use in listed buildings should only be made for individual supply of the building - Large and highly disruptive systems are to be avoided - intensive consultation process between experts and conservation authorities to lead - developments in the market can be observed constantly on the lookout for more and better systems
<p>How do you want to transfer the knowhow within the project? What kind of means do you want to use (workshop, oCC, toolkit, etc.)? <i>(bullet points)</i></p>	<ul style="list-style-type: none"> - oCC - partner meetings and study visit in Quedlinburg - Study about the implementation for all partners



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<p>How do you plan to disseminate the results outside the project? What kind of means do you want to use (workshop, media, non-media communication, toolkit, etc.)? <i>(bullet points)</i></p>	<ul style="list-style-type: none"> - workshops - meetings with other municipalities - Energy Day - conferences (e.g. Final Conference of the project, other conferences) - declaration of mayors - media communication - local action plan - Participation in a trade fair in Leipzig, November 2012 - global communications by the company which implements the pilot project
<p>How do you benefit from the realization of the pilot? <i>(few sentences)</i></p>	<p>The partners can gain experience in the communication process with the conservation authorities. New developments which are to be presented can be followed up. By sharing experiences is a brain gain for the partners</p>
<p>What do you consider the transnational added value of your pilot? <i>(few sentences)</i></p>	<p>Experience in the implementation of the project can be used transnational. Actual findings of research can be used Best practice can be used</p>