



ENERGY EFFICIENCY THROUGH INNOVATION PROCUREMENT

Foresighting Roadmaps

Overview and Synthesis Report (D2.2)

By John Taylor (Optimat), November 2017

Objectives of Foresighting Roadmaps

1. Provide a context to identify the potential role of City authorities in addressing City energy system challenges
2. Provide evidence to support the case for action by Cities
3. Identify state of the art technical and financial innovations
4. Identify how City authorities can use their own and wider City stakeholder's procurement to drive demand for innovation
5. Provide a flexible framework as a tool to enable City authorities to make more effective use of Public Procurement of Innovation
6. Develop City-specific Foresighting Roadmaps with objectives and actions that go to the end of the CEPPI project and beyond

Delivering the Foresighting Roadmaps

- Objectives 1 to 5 were delivered via a publicly available Foresighting Report – now available via the CEPPI website:
[http://www.ceppi.eu/fileadmin/user_upload/CEPPI Foresighting Report.pdf](http://www.ceppi.eu/fileadmin/user_upload/CEPPI_Foresighting_Report.pdf)



Delivering the Foresighting Roadmaps

- Objective 6 (City-specific Foresighting Roadmaps) was delivered via confidential Roadmaps prepared by each City Partner
- This document provides an overview of the process of developing the City-specific Foresighting Roadmaps and a Synthesis of their contents

Overview of the Road-mapping process

- A Guidance and Road-mapping template was prepared for City Partners. The key elements of this included:
 - The scope of the objectives and actions were for the City Partners involved in CEPPI + other stakeholders
 - Based on what each viewed as practical and achievable
 - Included questions to consider and example areas for objectives and actions
 - Timescale is to the end of the CEPPI project and beyond
 - Scope for sharing and learning from peers to further develop roadmaps
 - Template will be uploaded to CEPPI website

Overview of the Road-mapping process

- Supported by and builds upon previous CEPPI work and outputs:
 - Flexible framework for energy innovation procurement
 - Energy Opportunities Reports
 - City Energy Flow Reports
 - Foresighting Report

Overview of the Road-mapping process

- Structured into four key areas:
 - Flexible framework for energy innovation procurement
 - Hot-spot and renewable energy action plans
 - City energy strategy and engagement with wider stakeholders
 - Strategic procurement opportunities

Overview of the Road-mapping process

Flexible framework for energy innovation procurement

Developed through insights from the CEPPI project and partners previous experience, this new framework provides a structured way to analyse and progress City authority performance in various indicators. The level of performance against each of these indicators influences the effectiveness with which PPI can be used to address City energy system challenges. City partners can use this as a framework to engage with City authority colleagues and wider stakeholders.

The flexible framework will be further developed during WP5.

Overview of the Road-mapping process

Hot-spot and renewable energy action plans

This refers to the most significant energy using systems of the City authority (including separate companies where the City authority has significant ownership and/or control). Earlier work to produce the Energy Opportunity Reports for each City identified the energy hot-spots. The potential for generation of renewable energy has also been considered during the project. The technical and financial state of the art examples identified in the Foresighting Report were also used to stimulate the definition of objectives and actions.

Overview of the Road-mapping process

City energy strategy and engagement with wider stakeholders

Typically the direct energy use of a City authority is no more than 5% of the overall energy use of a City (often significantly less).

Therefore, a key area to develop objections and actions around is how the City authority can engage with and support wider energy using stakeholders on PPI. The role of the City authority is particularly important in the case where their are targets related to energy such as via the Covenant of Mayors and/or City low carbon strategies.

Overview of the Road-mapping process

Strategic procurement opportunities

In addition to the energy hot-spots related to direct energy use of the City authority there are a range of ongoing direct procurement contracts that have some influence over total energy use. It is important to be aware of these and consider the opportunities for PPI in a systematic way.

In addition to this the portfolio of current and planned European Structural Funded projects are a potential source of opportunities to use PPI to achieve better energy outcomes.

Finally, awareness and engagement with project managers of significant new developments/ refurbishments involving the private sector in the City offer potential opportunities for PPI

Synthesis of the City-specific Foresighting Roadmaps

- Each of the City-specific Foresighting Roadmaps prepared by the City Partners have been analysed and a synthesis of the key elements of these roadmaps are now presented:

Synthesis of the City-specific Foresighting Roadmaps

Key objectives and actions for the flexible framework

- Engaging with operational and policy representatives to raise awareness and benefits of using the flexible framework
- Working with policy representatives to define goals for the City authority to improve performance in the flexible framework
- Working with operational representatives to create roadmaps to achieve these goals
- Working to include the use of PPI in City authority policies and strategies
- Aligning PPI with other procurement initiatives such as socially responsible procurement and sustainable public procurement

Synthesis of the City-specific Foresighting Roadmaps

Key objectives and actions for direct energy hot-spots

- Involvement of citizens/citizen groups as third party advocates, as energy users and as potential sources of finance (e.g. Connecta Energia in Valencia)
- Creating and/or engaging with existing internal energy efficiency related groups within City authorities
- Creating a map of local renewable energy opportunities
- Creating action plans for specific energy hotspots (street lighting, school buildings, etc.)
- Identification and use of case studies of other City authorities successfully using PPI to achieve better energy outcomes
- Identification and exploration of alternative financing options

Synthesis of the City-specific Foresighting Roadmaps

Key objectives and actions for wider energy-using stakeholders

- Engaging with colleagues responsible for Covenant of Mayors and/or City low carbon strategies to understand implementation plans and identify potential PPI opportunities
- Participating in multi-stakeholder networks with a focus on energy (e.g. Climate Change Platform of Budapest)
- Mainstreaming CEPPI project outputs to target certain sectors with evidence of the benefits of using PPI to achieve improved energy outcomes (e.g. Fire stations, Hospitals, etc)
- Going beyond the City authority boundaries to spread good practice with other City authorities

Synthesis of the City-specific Foresighting Roadmaps

Key objectives and actions for strategic procurement opportunities

- Further analysis of City authority procurement plans for ongoing contracts (non hot-spot)
- Raise awareness about PPI benefits with different units/ departments with an involvement in procurement decisions
- Link awareness raising of PPI to other more established procurement practices such as Sustainable Public Procurement and/or Socially Responsible Public Procurement
- Engagement with European Structural Fund managers to identify current and future projects and opportunities for PPI
- Engage in PPI training of relevant key staff

For more information about CEPPI and the resource available to support the creation of City-specific Foresighting Roadmaps please visit:

www.ceppi.eu

Thank You