PLEEC

PLANNING FOR ENERGY EFFICIENT CITIES

SEVENTH FRAMEWORK PROGRAMME

This project is financed by the European Union

Background

Energy efficiency is high on the European agenda. One of the goals of the European Union's 20-20-20 plan is to improve energy efficiency by 20% in 2020.

However, holistic knowledge about energy efficiency potentials in cities is far from complete. Currently, a variety of individual strategies and approaches by different stakeholders tackling separate key aspects hinders strategic energy efficiency planning.

For this reason, **PLEEC** project – "Planning for Energy Efficient Cities" – funded by the EU Seventh Framework Programme uses an integrative approach to achieve the sustainable, energy–efficient, smart city. By coordinating strategies and combining best practices, **PLEEC** will develop a general model for energy efficiency and sustainable city planning.

By connecting scientific excellence and innovative enterprises in the energy sector with ambitious and well-organized cities, the project aims to reduce energy use in Europe in the near future and will therefore be an important tool contributing to the EU's 20-20-20 targets.

Objectives

The main objectives of the project are:

- To assess the energy-saving solutions and potentials to be integrated in a comprehensive city planning
- To demonstrate how integrative planning is more efficient than separate measures
- To develop a synergized model for energy efficiency planning by considering the energy efficiency potential of city key aspects
- To create Action Plans to be presented to decision-makers in the cities
- To identify the future research agenda on the issue of energy-smart cities

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Work Packages - Activities

In order to have efficient, effective, high quality management, **Work Package (WP) 1** is dedicated to the coordination and management of the project consortium throughout the whole project life cycle.

In **WP2** the performance of six model mid-sized cities on key aspects – such as renovation of building stock, energy systems, smart heating/cooling grids, smart electricity grids, water networks, efficient waste collection and treatment, recycling and energy use, efficient transportation and mobility systems – will be analysed. These city profiles will reveal the specific opportunities and threats that will confront cities on their innovation journey towards an energy-efficient development. In the next step, three parallel work packages will elaborate energy efficiency recommendations from the three key perspectives:

WP3 – Technology-driven energy efficiency
WP4 – Structure-driven energy efficiency
WP5 – Behaviour-driven efficiency

Finally, in **WP6** the results from WP2, WP3, WP4 and WP5 will be integrated in the model of sustainable city planning and a summary of the best matching recommendations which will be provided for the cities as "**Action Plan for the Energy-Smart City**".

WP7 will ensure proper dissemination of the project's results at the local, national and EU levels.

Partnership

The partner consortium consists of 18 partners from 13 different European countries representing six mid-sized cities, nine universities and three industry partners.

Eskilstuna Energy and Environment (SE)

Eskilstuna City (SE)

Mälardalen University (SE)

Turku City (FI)

Turku University of Applied Sciences (FI)

Tartu City (EE)

Stoke-on-Trent City (UK)

Hamburg University of Applied Sciences (DE)

Vienna University of Technology (AT)

University of Copenhagen (DK)

Delft University of Technology (NL)

University of Rousse (BG)

LMS IMAGINE (FR)

Smart Technologies Association SMARTTA (LT)

Santiago de Compostela City (ES)

Santiago de Compostela University (ES)

Jyväskylä City (FI)

University of Ljubljana (SI)

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