## ELENA Project Factsheet

### Energy Renovation of the Buildings of Aarhus Municipality

<table>
<thead>
<tr>
<th>Location</th>
<th>Aarhus Municipality, Denmark</th>
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</thead>
<tbody>
<tr>
<td>Beneficiary</td>
<td>Aarhus Municipality</td>
</tr>
<tr>
<td>CoM signatory</td>
<td>Yes</td>
</tr>
<tr>
<td>Sector</td>
<td>Energy efficiency in public buildings</td>
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<tr>
<td>Total PDS cost</td>
<td>EUR 2,643,800</td>
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<tr>
<td>Elena contribution</td>
<td>EUR 2,379,400</td>
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#### Project development services (PDS) financed by ELENA

The support will concern external counselling on: a) energy efficiency projects and b) PV projects. It is expected that external experts will analyse some 437 buildings for energy efficiency projects and some 650 buildings for PV projects.

#### Description of ELENA operation

The ELENA assistance will focus on providing external expert support to the project that is required for carrying out energy analyses of municipal buildings. These energy analyses will allow defining the detailed scope of works required for each building.

The municipality will not require direct staff support for this project, however, it is expected that with the support of the external experts, the technical capacity of the municipal staff and the pool of knowledge within the organisation will highly increase.

#### Timeframe

2014-2017

#### Basis for investment identification

- Study on energy savings potential in municipal buildings.
  In December 2011, the municipality launched a comprehensive study of the potential for energy optimisation of the municipal building portfolio.
- Study on the implementation plan.
  In March 2012, another survey was conducted in order to support and supplement the results in the first study. This lead to the report "Implementation Plan for energy optimisation and green investments – Aarhus" with a desire to develop a plan for implementation, which focuses on internal resources, organization, project plan, procurement methods and operating conditions.
- Energy analyses of 12 buildings.
  To substantiate the data, the municipality conducted thorough energy analysis of a total of 12 buildings (representative buildings from 6 building segments).

#### Investment programme description

The project aims at carrying out energy efficiency and renewable energy investments (PV) in public buildings owned and rented by the Municipality of Aarhus. The overall objective of the project is to cut the CO₂ emissions related to buildings operation by 40%.

Some 650 buildings owned and rented by the municipality with the total floor surface of 1.3 million m² will be addressed by the project. All 650 buildings are expected to have the PV systems installed on their roofs, while 437 out of these buildings (representing 1.1 million m²) will undergo energy efficiency renovation as well.

#### Investment to be mobilised

EUR 53,500,000
**Expected results**

- Energy savings of 32,100 MWh/a
- Renewable energy generation of 13,700 MWh/a
- GHG emission reduction of 17,300 tCO₂eq/a.

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<thead>
<tr>
<th>Leverage factor (Minimum 20)</th>
<th>22.5</th>
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**Market replication potential**

The market replication potential that the project is bringing is considered high. Firstly, it is expected that project success will trigger similar initiatives on other buildings located in Aarhus, notably private buildings. Moreover, the municipality expects that the implementation model developed will be flexible enough to be used by other public or private organisations.

**Project status**

Contract signed 20.10.2014

**Contact person at Beneficiary**

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