



ELENA Completed Project Factsheet

Energy Renovation of the Buildings of Aarhus Municipality

Location	Aarhus Municipality, Denmark.
Beneficiary	Aarhus Municipality
CoM signatory	Yes
Sector	EE non-residential buildings
Total PDS costs (Project Development Services) accepted	EUR 1,795,766
Elena contribution	EUR 1,616,190 (90%)
Project development services financed by ELENA	<p>The ELENA support included the following activities:</p> <ul style="list-style-type: none"> • Preparation of building energy audits and • Development of tender documents <p>At project completion, the total cost for external technical assistance (TA) was lower than the maximum possible contribution stated in the contract between EIB and AaM (EUR 2.3m). One of the reasons was that the consultant companies used were less expensive than anticipated (hourly rate and/or time spent) plus the fact that some of the services were provided directly from the Aa+ staff.</p>
Description of ELENA operation	<p>The ELENA support was initially designed to provide external support to the Final Beneficiary in order to carry out energy analysis in Aarhus municipal buildings. However, and due to the challenges faced by the project in regards to the limited availability of subcontractors, AA+ staff also provided technical support to as to achieve the targets. Aa+ staff concentrated on providing services to small-scale buildings (<1,000m²).</p>
Timeframe	October 2014 - December 2019
Basis for investment identification	The investment programme has been prepared on the basis of information provided by the municipalities.
Investment programme description	<p>The program originally targeted PV initiatives, but due to changes on regulation, these were largely removed from the Aa+ Programme.</p> <p>The total investment volume does not meet the initial objective (EUR 53,5m). However, it exceeds the expectation for EE initiatives, since more than 300 municipal buildings implemented EE measures, including improvement in envelopes such as roof & windows installation/replacement, installation of efficient lighting systems and pumps, installation of building heating system/controls and ventilation services.</p>
Investment in implementation phase	EUR 38.4m
Results expected to be achieved	<ul style="list-style-type: none"> ▪ Energy savings: 19 GWh/y ▪ CO₂ reduction: 6,019 tCO₂ eq/y
Leverage factor achieved	23.8

Lessons learnt	<p>During the implementation, the project faced some challenges:</p> <ul style="list-style-type: none">• it proved more difficult and time consuming than expected to select the buildings : Different legal restrictions, rented buildings, several owners/different legal setups concerning ownership of the buildings including housing associations, self-owning institutions etc.• limited availability of qualified firms, which delay the procurement and implementation phase.• Additionally the project also faced problems due to changes in the regulation, which reduced the attractiveness of the introduction of renewable energies in the buildings (e.g. PV).
Further information sources	www.aarhus.dk
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