



ELENA Project Factsheet

The Capital Region Energy Investment Programme (RHEIP)

Location	The Capital Region of Denmark
Beneficiary	The Capital Region of Denmark – Centre for Real Estate
CoM signatory	No
Sector	Energy efficiency and integrated renewables in buildings
Total PDS cost	EUR 3 416 913
ELENA contribution	EUR 3 075 222
Project Development Services (PDS) financed by ELENA	<p>The Project Support Unit (PSU) financed by ELENA will provide support to implement substantial investments in energy efficiency in the building portfolio of the Capital Region (hospitals and other buildings owned by the region) and investments to increase the use of renewable energy at these sites.</p> <p>The ELENA Programme and Support Unit will be integrated in the Centre for Real Estate department of the Region in the Unit for Energy and Environment and will consist of existing (working part time) and new hired staff (working full time). In addition, the ELENA PSU will be supported by external consultants.</p> <p>The ELENA PSU will:</p> <ul style="list-style-type: none"> - advise the Centre for Real Estate (preparation and implementation of tenders, contracts, workshops quality assurance etc...) - provide tender implementation and evaluation support throughout the project (tenders for energy audits, tenders for technical support to define the general requirements for the investments in energy efficiency measures and tenders for the ESCOs) - carry out energy audits and define energy efficiency investments requirements
PDS Timeframe	Q2 2018 - Q2 2021
Investment programme description	<p>The investment programme consists of investments in energy efficiency (EE) in and around buildings and in building-integrated renewable energy (RE) technologies. The building portfolio in question consists of hospitals, and other buildings owned by the region. The investment programme will be carried out on 18 locations for a total of 261 buildings and a total floor area to be retrofitted of 1 298 554 m².</p> <p>The investments will be of the following type: electricity production via PV systems investments, energy efficiency investments in lighting, heating, cooling, ventilation, building management systems</p>

	<p>and medico-technical equipment and investments to improve the building envelope.</p> <p>ESCOs will implement the majority of the investments. They will verify the energy audit performed by the ELENA PSU staff, and complete the catalogue using their specific solutions and competencies. They will commit in the end to the savings and investments. The ESCOs will finally carry out detailed project planning and start implementation</p>
Investment to be mobilized	EUR 97 500 000
Description of the approach to implement the Investment Programme	<p>The Centre for Real Estate will set up the required technical and contractual Support Unit and advisory system, in order to support the hospitals and other regional buildings in establishing the framework and conditions for the implementation of the energy efficiency investments.</p> <p>The overall plan consists of 5 phases including the following key tasks: Phase 1 - Preparation, Phase 2 – Tenders, Phase 3 - Energy Audit and General Requirements and Phase 4 – Implementation. The first three phases are part of the ELENA TA activities. The investments implementation activities start at phase 4.</p> <p>Phase 4 – Implementation: The selected ESCOs will verify the energy audit performed and prepared by the ELENA TA, and complete the investment catalogue using their specific solutions and competencies. They will commit to the savings and investments then carry out detailed project planning and start implementation. The key tasks will be: verify and amend the energy project catalogue, prioritize initiatives, develop implementation roadmaps, implement the prioritized initiatives, including training, support and continuous monitoring of investments and results.</p> <p>Phase 5 - Evaluation and follow-up, corrective actions, knowledge sharing in Denmark and abroad.</p>
Expected results	<p>The estimated contributions of the investment programme to the national and regional targets are as follows:</p> <ul style="list-style-type: none"> • Energy Efficiency: annual savings of 61 (GWh/year) • RE generation: 4.7 (GWh/year) • CO2 reductions: 12 301 (t CO2eq/year)
Leverage factor (Minimum 20)	32
Market replication potential	<p>This project supported by ELENA contributes to an increased use of renewable energies and greater energy efficiency in buildings and thus contributes to regional and national objectives in these sectors. The market replication potential of the project is significant. It is expected that lessons learnt from carrying out the RHEIP project will allow other Danish regions as well as other European countries to follow a similar way.</p>
Status	Contract signed on 09/07/2018
Contact person at Beneficiary	Mr Heine Knudsen