



ELENA Project Factsheet
Renewable Energy For Emission Reduction
in Central Denmark Region - (REFER-CDR)

Location	The Project Development Services will be performed and the Investment Programme will be realised in the Central Denmark Region, Denmark.
Beneficiary	Central Denmark Region (CDR) ¹ .
CoM signatory	no
Sector	Energy Efficiency and Renewable Energies in DH sector
Total PDS cost	EUR 3 209 484
ELENA contribution	EUR 2 888 536
Project Development Services (PDS) financed by ELENA	The Project Development Services (PDS) financed by ELENA will provide support to implement the District Heating (DH) Investment Programme in the Central Denmark Region. This Investment Programme will support District Heating (DH) Energy Supply Companies that utilize natural gas for combined heat and power (CHP) production for their DH networks in the transition to renewable resources.
PDS Timeframe	May 2017 – April 2020
Investment programme description	The aim of the REFER-CDR project is to ensure acceptable and low consumer prices for energy and to ensure a production capacity that is not vulnerable to changing policies and energy taxation. Therefore, the DH Energy Supply Companies participating in the REFER-CDR project have decided to initiate EE-RES investments. The goals of the planned Investment Programme are: 1. A 50% CO ₂ reduction in the energy companies 2. An 80% increase in the DH production from RES 3. A 30% fuel saving due to implementation of EE technologies 4. Responding to the increasing consumer prices
Investment to be mobilized	The expected investment in energy efficiency measures in DH and RES generation for DH are estimated with a total investment of up to EUR 73m.

¹ Legal text of establishment (in Danish) <https://www.retsinformation.dk/forms/r0710.aspx?id=170461>

Description of the approach to implement the Investment Programme	The REFER-CDR project is based on the approach that its outcomes should benefit society as a whole; people, growth, and the climate. Other than receiving ELENA TA to equip the partners to make long-term and CO ₂ mitigating investments, there is a shared expectation that the project will bring added value in terms of knowledge sharing and best practice.
Expected results	The total estimated contributions are: <ul style="list-style-type: none"> • RE generation – Annual total renewable energy generation by 304 GWhth. • Energy Efficiency – Annual total savings in the final energy consumption of 460 GWh. • CO₂ reductions – Annual total emission reductions of 124,930 t CO₂ eq.
Leverage factor (Minimum 20)	25
Market replication potential	The project has a high replication potential, especially in Denmark, where such a structure of DH Energy Supply Companies is common in many regions. The ELENA support contributes to a significant increase in expenditure in the priority activities of energy efficiency and renewable energies in the district heating area and thus contributes to implementing regional and national objectives in this sector.
Status	Contract signed on 01/05/2017
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