

Technical Assistance – Project description

Municipality of Ringkøbing-Skjern



<i>Location</i>	Midtjylland, Denmark
<i>Beneficiary</i>	Municipality of Ringkøbing-Skjern
<i>Member of Covenant of Mayors Initiative</i>	✓
<i>Contribution</i>	EUR 1,917,500
<i>Project development services financed by eeef</i>	<ul style="list-style-type: none"> • Approval of actions and implementation with in the municipal legislation frame, contracts, tenders etc. • Tenders: biogas plants, gas grid, services etc. • Data collection, financial prospect preparation, approval of accounting data, business model: for gas sale, biomass purchase platform, analysis and evaluations etc. • Data collection, tech analysis of biogas plants, grid, grid components, data evaluation etc. • Environmental, technical, municipal energy planning, visualization, infrastructure, transport etc.
<i>Timeframe for TA</i>	Expected by December 2016
<i>Description of the envisaged investment program</i>	<p>Ringkøbing-Skjern launched a Sustainable Energy Action Plan under the Covenants of Mayors to become 100% self sufficient with renewable energy by 2020. The municipality has the highest density of animals in Denmark, using animal manure to produce biogas in decentralised plants with a biogas grid should help the municipality to achieve its goal. A challenge for the biogas developments is to avoid extensive road transportations of manure and to ensure that the biogas is utilised efficiently. The core of the project is ca 42 km biogas grids that should enable the transmission of biogas from smaller biogas plants with minor transport of manure to consumers. The project will cover construction of 3 new biogas plants which will be connected with 2 existing plants in a biogas grid. This is the first stage of the project, in the long term it is intended to build 8-12 biogas plants connected into a further grid extension.</p>
<i>Investment required</i>	<p>Planned investment of EUR 173.3m is for the full implementation of the Ringkøbing-Skjern Model, consisting:</p> <ul style="list-style-type: none"> • 46 biogas plants (construction, land purchase, piping etc.) • 50km connection pipes • 110km piping to biogas grid • 4 central storage facilities etc.
<i>Expected results</i>	<p>Results of the fully implemented Ringkøbing-Skjern Model:</p> <ul style="list-style-type: none"> • Energy savings to be achieved (kWh) : <p style="text-align: right;">Total: 89,730,000 kWh</p>

Technical Assistance – Project description

	<ul style="list-style-type: none"> • Renewable energy production: 8.6m m³ CH₄ per year • Greenhouse gas emissions reduced/avoided in CO₂eq: Total: 17,663 t eq CO₂ /year • Jobs created/sustained: - First stage: 283 FTEs - Full implementation (15 years): 1500 FTEs
<i>eeef's support for the investment program</i>	<p>eeef funding is thought for the 1st stage of the project after completion of the TA work to be provided for the first 3 biogas plants and biogas grid in total of EUR 14.6m, which is split in EUR 9.7m for the three biogas plants and EUR 4.9m for the biogas grid.</p>