European Investment Bank
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Location	Municipalities of Sittard-Geleen, Beek and Stein, The Netherlands	
Beneficiary	Municipality of Sittard-Geleen	
CoM signatory	Decision taken to sign the Covenant	
Sector	Renewable energies, district heating	
Total PDS cost	EUR 923 000	
Elena contribution	EUR 668 000	
Project	<ul> <li>Initial choice to set up a public private partnership for the implementation of</li> </ul>	
development	the district heating network	
services (PDS)	<ul> <li>Preparation and process of the tender procedure following the competitive diale area mater.</li> </ul>	
financed by ELENA	<ul> <li>dialogue rules</li> <li>Continued acquisition of potential district heating customers</li> </ul>	
ELENA	<ul> <li>Continued acquisition of potential district heating customers</li> <li>Legal and financial structuring of the project</li> </ul>	
	<ul> <li>Preparation of investment decision for the involved municipalities</li> </ul>	
Description of	<ul> <li>Set up of a dedicated project implementation unit with additional and internal</li> </ul>	
ELENA operation	staff in charge of preparing and implementing the complete investment	
	programme	
	<ul> <li>External advice for project management and implementation</li> </ul>	
	<ul> <li>Legal and financial design of contracts for heat producers and costumers</li> </ul>	
	<ul> <li>Technical study validating technical concept proposed by private bidders</li> </ul>	
	<ul> <li>Legal, financial expertise for preparation of tender documents and for the set</li> </ul>	
	up of the public private partnership vehicle	
Timeframe	2012-2014	
Basis for	<ul> <li>City development strategy to increase energy efficiency through residual heat</li> </ul>	
investment	use, increase RE and avoid $CO_2$ emissions	
identification	<ul> <li>Preliminary studies concerning district heating potential, heat master plan set up, preliminary business plan elaboration,</li> </ul>	
	<ul> <li>Project development in close cooperation with all the key partners (e.g. heat</li> </ul>	
	supplier, large potential heat customers, local authorities etc.) to increase	
	acceptability of investment project and involvement of clients	
Investment	<ul> <li>Construction of a complete district heating network (DHN) on the territory of</li> </ul>	
programme	the three municipalities	
description	<ul> <li>Heat to the DHN supplied by an existing biomass cogeneration plant and</li> </ul>	
	residual heat from an industrial park utility producing steam for industrial	
	customers	
	<ul> <li>During ELENA project duration DHN will be able to deliver an estimated 95.5</li> </ul>	
	GWh to different kind of customers including decentralised production of cold	
	<ul> <li>water for cooling purposes</li> <li>District heating parameters planned 95-65°C</li> </ul>	
	<ul> <li>At final development stage the primary network expected length 30 km and</li> </ul>	
	building connections 17 km for a heat capacity demand of 85 MW th	
Investment to be	Expected investment amount: EUR 55.4m	
mobilized		
Expected results	<ul> <li>Estimated heat supply for DHN implemented during ELENA duration: 95.5</li> </ul>	
-	GWh, at final stage estimated supply of 232 GWh	
	<ul> <li>CO<sub>2</sub> reduction: 19 300 tons</li> </ul>	
Leverage factor	83	
(Minimum 25)		
Market replication	Special replicable features of this project:	
potential	<ul> <li>Cooperation of several municipalities to create a district heating network in a competitive baset market.</li> </ul>	
	competitive heat market	
	<ul> <li>Synergies through use of existing heat supply facilities: biomass cogeneration and industrial zone utility; combination of heating and cooling</li> </ul>	
	supply	
	<ul> <li>Concerted action involving key stakeholders and use of public private</li> </ul>	
	partnership tool	
Project status	ELENA contract signed on 29 <sup>th</sup> December 2011	
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