



## Purmerend

<b>Location</b>	<b>Purmerend, The Netherlands</b>
<b>Beneficiary</b>	District heating company of Purmerend (SVP)
<b>CoM signatory</b>	NO
<b>Sector</b>	Energy efficiency, renewable energies, district heating
<b>ELENA contribution</b>	EUR 1 791 900
<b>Project development services (PDS) financed by ELENA</b>	<ul style="list-style-type: none"> <li>• Preparation of tender documents for the energy retrofitting of the district heating network</li> <li>• Elaboration of a business plan of a geothermal and a biomass new RE heat production facilities</li> <li>• Design and realization of the legal and financial set up for a special project vehicle (SPV) to be in charge of investment</li> <li>• Contracting of investment partners for the SPV and preparation of long term biomass supply contract</li> </ul>
<b>Description of ELENA operation</b>	<ul style="list-style-type: none"> <li>• Set up of a dedicated project implementation unit with additional and internal staff in charge of preparing and implementing the complete investment programme (network and RE plants)</li> <li>• External experts will be hired for the preparation of the construction of the RE plants</li> <li>• Legal, financial expertise for preparation of tender documents and for the set up of the SPV will be externalised</li> </ul>
<b>Timeframe</b>	2010 – 2013
<b>Basis for investment identification</b>	Development vision of the district heating company to reduce losses and switch to RE supply; linked to the action plan of the City of Purmerend having signed the Dutch "Climate Agreement"; plans to become member of CoM
<b>Investment programme description</b>	Improvement of district heating network: replacement of substations, elimination of unnecessary loops, improve "just in time" heat production Construction of a geothermal heat plant (18 MWth) and of a biomass heat plant (26 MWth, if financially viable upgraded to a cogeneration plant) including all the connection work to the heat grid and the necessary logistic components
<b>Investment to be mobilized</b>	The expected investments amount to EUR 80 million
<b>Expected results</b>	<ul style="list-style-type: none"> <li>• Energy savings: 50 GWh/y</li> <li>• RE heat generation: 264 GWh/y</li> <li>• CO<sub>2</sub> reduction: 56 500 t/y</li> </ul>
<b>Leverage factor</b>	45
<b>Market replication potential</b>	Significant for other aging district heating networks and especially for substituting in existing networks fossil based heat generation through large scale RE heat generation
<b>Project status</b>	ELENA contract signed on 30 September 2010
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