



## Province of Modena

<b>Location</b>	<b>Province of Modena</b>						
<b>Beneficiary</b>	Agenzia per l'Energia e lo Sviluppo Sostenibile di Modena (AESS)						
<b>CoM signatory</b>	Yes, as technical supporting structure of the Modena Province, CoM local coordinator.						
<b>Sector</b>	Energy efficiency, renewable energy						
<b>ELENA contribution</b>	EUR 1,316,700						
<b>Project development services (PDS) financed by ELENA</b>	<p>The ELENA assistance will support an investment programme focusing on PV plants on publicly owned roof tops, energy retrofitting of public buildings to improve the energy efficiency, including also RE, and enhancing the energy efficiency in street lighting within a number of municipalities in the Province of Modena, by:</p> <ul style="list-style-type: none"> <li>• Providing assistance for the preparation of calls for tender without using funds from municipal budgets;</li> <li>• Pooling municipalities' projects through joint calls, thus improving efficiency and realising economies of scale;</li> <li>• Supporting the municipalities in the use of innovative financing schemes like leasing or energy performance contracts.</li> </ul>						
<b>Description of ELENA operation</b>	The management will be composed of 3 dedicated members of staff. They will be assisted by technical experts who will produce the baseline for energy performance contracts/energy service contracts for buildings, the baseline of street lighting systems, and feasibility studies for solar PV roofs.						
<b>Timeframe</b>	2011-2014						
<b>Basis for investment identification</b>	<ul style="list-style-type: none"> <li>• 12 studies for energy efficiency in buildings, for about 30 local administrations, implemented by calls for tender prepared by AESS, all based on Third Party Financing;</li> <li>• preparation of the regional investment programme "Minimum 500 toe".</li> </ul>						
<b>Investment programme description</b>	<ul style="list-style-type: none"> <li>• PV: installation of a capacity of 5.5 MWp;</li> <li>• Mixed energy supply and energy performance contracts including heat generation capacity by around 50 MWth (corresponding indicatively to 130 buildings of an average size of 4000 m<sup>2</sup>), including 2.5 MWth of biomass boilers, 2,000 m<sup>2</sup> of solar thermal systems and 1.9 MWth of geothermal heat pump systems;</li> <li>• Energy performance contracts for approximately 27,000 light spots.</li> </ul>						
<b>Investment to be mobilized</b>	EUR 54 million						
<b>Expected results</b>	<table> <tr> <td>Energy savings:</td> <td>17,200 MWh</td> </tr> <tr> <td>Energy produced by renewable sources</td> <td>12,200 MWh</td> </tr> <tr> <td>CO<sub>2</sub> reduced:</td> <td>9,900 tCO<sub>2</sub>/y</td> </tr> </table>	Energy savings:	17,200 MWh	Energy produced by renewable sources	12,200 MWh	CO <sub>2</sub> reduced:	9,900 tCO <sub>2</sub> /y
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<b>Leverage factor</b>	<b>41</b>						
<b>Market replication potential</b>	The market replication potential for other municipalities is considered high, particularly in Italy and notably the use of ESCOs under a performance contracting scheme is a replication of experiences in other EU member states.						
<b>Project status</b>	Signed on 17 August 2011						
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