



Province of Modena

Location	Province of Modena						
Beneficiary	Agenzia per l'Energia e lo Sviluppo Sostenibile di Modena (AESS)						
CoM signatory	Yes, as technical supporting structure of the Modena Province, CoM local coordinator.						
Sector	Energy efficiency, renewable energy						
ELENA contribution	EUR 1,316,700						
Project development services (PDS) financed by ELENA	<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"> • Providing assistance for the preparation of calls for tender without using funds from municipal budgets; • Pooling municipalities' projects through joint calls, thus improving efficiency and realising economies of scale; • Supporting the municipalities in the use of innovative financing schemes like leasing or energy performance contracts. 						
Description of ELENA operation	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.						
Timeframe	2011-2014						
Basis for investment identification	<ul style="list-style-type: none"> • 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; • preparation of the regional investment programme "Minimum 500 toe". 						
Investment programme description	<ul style="list-style-type: none"> • PV: installation of a capacity of 5.5 MWp; • 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 m²), including 2.5 MWth of biomass boilers, 2,000 m² of solar thermal systems and 1.9 MWth of geothermal heat pump systems; • Energy performance contracts for approximately 27,000 light spots. 						
Investment to be mobilized	EUR 54 million						
Expected results	<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>CO₂ reduced:</td> <td>9,900 tCO₂/y</td> </tr> </table>	Energy savings:	17,200 MWh	Energy produced by renewable sources	12,200 MWh	CO ₂ reduced:	9,900 tCO ₂ /y
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Leverage factor	41						
Market replication potential	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.						
Project status	Signed on 17 August 2011						
Contact at Beneficiary	Marcello Antinucci, Director AESS; mantinucci@aess-modena.it						