



ELENA Completed Project Factsheet

Development of Smart-Grid Infrastructure in Autonomous Islands on The Aegean Sea

Location	Greece: Lesvos, Limnos, Milos, Kythnos and Santorini
Beneficiary	DAFNI-Network of Sustainable Aegean Islands
CoM signatory	Yes
Sector	Local Infrastructure, RES
Total PDS costs	EUR 736 945
ELENA contribution	EUR 626 403
Project development services financed by ELENA	The ELENA assistance supported the development of the investment programme in smart grids infrastructure, and to a lesser extent in photovoltaic systems and charging stations for electric vehicles in the 5 islands.
Description of ELENA operation	<p>A project team was established at the DAFNI to manage the whole investment programme in cooperation with their partners:</p> <ul style="list-style-type: none"> • Monitoring and commissioning of the project and on-site support • Detailed analysis of the 5 islands' electricity systems: general island information, generation system data (conventional and renewables), load demand and network information. • Study, preparation and launch of a tender process for smart metering and AMR(Automated Meter Reading) • Implementation of recharging stations for electric cars in the five islands • Upgrade of Energy Efficiency in Street Lighting <p>External experts were also contracted for legal support and technical studies.</p>
Timeframe	September 2011– August 2014
Basis for investment identification	The proposed investment project built on the knowledge acquired in a pilot project that was implemented in the island of Kythnos in 2007 (micro-grid) Sustainable Energy Action Plans in 20 Aegean Islands
Investment programme description	<p>The implemented investments include:</p> <ul style="list-style-type: none"> • The design, engineering, and construction of the entire Metering Data Telemetering and Processing System; • The procurement, installation and integration into the System of electricity meters with communication devices, of the metering devices (initially 170 000), and the provision of all relevant services for the Project's sound construction.
Investment in implementation phase	EUR 27 260 000
Expected results	<ul style="list-style-type: none"> • Energy savings: 28.68 GWh/y • CO₂ reduction: 22 370 t/y
Leverage factor	44

Lessons learnt	<p>The main lesson learnt during the course of the technical assistance provision include:</p> <ul style="list-style-type: none">• Close cooperation between the applicant and the investor and /or guarantor of the proposed investment programme is a prerequisite for the successful implementation of the contract. More specifically, the establishment of working groups with the participation of all key persons involved who will closely follow-up, discuss and resolve all issues that may arise is of outstanding importance;• A parameter that was not foreseen and had an important impact on the time schedule for the launch of the tender for smart meters, was the high number of comments received by the interested companies during the public consultation, which required important resources and time to be evaluated and to revise the tender documents accordingly.
Further information sources	Not available
Contact person at Beneficiary	http://www.dafni.net.gr/en/contact.htm