



ELENA Completed Project Factsheet

ECO.AP- Programa de Efficiencia Energetica na Administracao Publica

Location	Portugal
Beneficiary	ADENE - Agência para a Energia
CoM signatory	No
Sector	Energy efficiency in buildings, public lighting, and building-integrated renewables
Total PDS costs	EUR 340 477
ELENA contribution	EUR 306 429
Project development services financed by ELENA	<p>The technical assistance developed by ADENE under the ELENA project consisted of four main pillars:</p> <ul style="list-style-type: none"> • Energy audits: preliminary analyses, walkthrough audits, detailed energy audits. • Tender process: necessary adaptations of tender documents specific for each building and each organization, defining the documents necessary to launch the tender process, support during the tender process and evaluation of proposals, in particular in Energy Performance Contract (EPC). • Direct contact with the energy managers and decision-makers of entities involved, central and local public administration, with the purpose of a pre-selection of buildings and other installations with energy performance improvement potential. • Dissemination sessions on the scope of intervention of ADENE within ELENA programme, explaining the objectives of the programme: energy efficiency and renewable energy gains for the entities involved.
Description of ELENA operation	<p>Through the ELENA project, the final beneficiaries were provided technical assistance to support investments in energy efficiency in buildings, public lighting, and building-integrated renewable energy.</p> <p>Part of the investments were implemented using the EPC model. ELENA supported activities aimed at raising awareness and know-how of EPCs among the public sector. ELENA project can be considered a catalyst for the EPC investment implementation model in Portugal, mostly in public lighting installations.</p>
Timeframe	mid-October 2013 – mid-October 2017
Basis for investment identification	<p>The investments were identified proactively by ADENE by approaching local and central public administration entities which manage the following types of facilities:</p> <ul style="list-style-type: none"> • Hospitals and other health facilities, • Schools, universities and training centres, • Swimming pools, • Public lighting systems, • Public lighting, • Other administrative public buildings.
Investment programme description	<p>The investment programme consisted of installation of EE and RES measures in public buildings and lighting, including:</p> <ul style="list-style-type: none"> • Solar thermal systems, • Solar photovoltaic systems, • Replacement of windows, • Thermal insulation (walls and roofs),

	<ul style="list-style-type: none"> • Replacement of lighting systems (internal and external), • Replacement of HVAC systems, • Replacement of hot water system, • Installation of building management systems, • Public street and traffic lighting.
Investment in implementation phase	<p>EUR 45m, including:</p> <ul style="list-style-type: none"> • EE in buildings: EUR 24m, • Public lighting: EUR 18m, • RES in buildings: EUR 3m.
Results expected to be achieved	<p>Energy saving - 56.3 GWh/y RE production - 2.8 GWh/y GHG reduction - 25,874 t CO2 eq/y</p>
Leverage factor achieved	147
Lessons learnt	<ul style="list-style-type: none"> • One of the difficulties, which the beneficiary faced during the project, was limited expertise on energy efficiency within public entities and lack of understanding on energy performance contracts. More time than initially expected was necessary to explain the EPC model to decision makers. • Not all facilities, particularly in public buildings, have a proper scope and size to attract the interest of ESCOs. Sometimes complexity and uncertainty discourage private investors and public entities need to finance projects through other mechanisms. • Due to internal processes or due to political changes, the beneficiary found it difficult to target the appropriate decision makers, causing delays to the programme.
Further information sources	https://www.adene.pt/
Contact person at Beneficiary	Gorete Soares