



ELENA Completed Project Factsheet

KaposGrid Smart Urban Energy Project

Location of planned investments	The investment programme was implemented in Hungary.
Final Beneficiary	Municipality of Kaposvár, Hungary
Final Beneficiary's address	Kossuth tér 1 7400 Kaposvár Hungary
CoM signatory	The Municipality of Kaposvár is a member of the Covenant of Mayors since December 2015.
Sector	Energy efficiency and renewable energy in public buildings
Total PDS costs	EUR 1 942 475.47
ELENA contribution	EUR 1 748 227.92
Project development services financed by ELENA	<p>The Project Development Services (PDS) supported the preparation of public procurement process for a Service Provider Company to implement and manage renewable energy (RE) and energy efficiency (EE) investments refurbishment of public lighting and energy storage facilities in the public sector of six municipalities: Kaposvár Dunaújváros, Szombathely, Tatabánya, Veszprém, and Zalaegerszeg.</p> <p>The ELENA facility has been used by the consortium to prepare and implement Project Development Services (PDS) for the preparation of public procurement process for an ESCO service contract to install and manage the components of the KaposGrid project.</p>
Description of ELENA operation	<p>With the support of ELENA a Project Co-ordination and Management company (PCM) including internal and external staff was set up to prepare a detailed business plan and a project feasibility study. The PCM was also responsible for managing the hiring of external technical, legal and procurement external experts.</p> <p>External experts provided technical, economic, and financial expertise, quality assurance, legal and public procurement services to prepare the tender documentation for the public procurement of ESCO services.</p>
Timeframe	01/01/2019-30/06/2023
Investment programme description	<p>The ELENA PDS supported the public procurement for an ESCO service contract for energy efficiency and renewable energy (PV) related investments in public buildings in the six municipalities involved in the project.</p> <p>Investments to be implemented under the ESCO contract include: Energy renovation of 108 public buildings, installation of solar panels on 112 buildings (with a total output of 9.2 MWp), renovation of public lighting with replacement of 26 679 light fixtures, of which it is planned to have implementation of an intelligent control system for at least 20 000 LED light points. Establishment of electricity storage in 4 municipalities with a capacity of 14 MW.</p>

Investment in implementation phase	EUR 53 329 067.01
Results expected to be achieved	The expected contributions: EE measures: 7.76 GWh/y. Electricity Savings: 7.54 GWh/y. RES production: 10.9 GWh/y. Installation and operation of an energy storage system with a capacity of 14 MW and 28 MWh. CO ₂ reductions: 5 331 CO ₂ eqt.
Leverage factor achieved	30.5
Lessons learnt	<p>The complexity of projects should be kept to a minimum - in this case the overall complexity was high due to including many components and multiple stakeholders, which led to difficulties in planning and execution. The onset of the COVID-19 pandemic resulted in further delays and disruptions.</p> <p>Organizational structures need to have clear roles for ownership stakes and clear responsibilities, to maximise effective administrative and project management tasks.</p> <p>A stable regulatory framework is essential as regulatory uncertainties can cause delays.</p>
Further information sources	N/A
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