



ELENA Project Factsheet
District 6 Energy Efficiency for Public Buildings
(D6EEPB)

Location	District 6 of the Municipality of Bucharest, Romania
Beneficiary	Sectorul 6 al Municipiului Bucuresti
CoM signatory	District 6 is not a CoM signatory, but the City of Bucharest is
Sector	Energy efficient building retrofits, built-in small-scale renewable energy projects and nearly zero-energy buildings (NZEBs)
Total PDS cost	EUR 1 283 300
ELENA contribution	EUR 1 154 970
Project Development Services (PDS) financed by ELENA	<p>The Project Development Services (PDS) financed by ELENA will provide support to District 6 municipality in acceleration of the implementation of the energy efficiency (EE) investment programme for deep energy retrofit of 11 existing buildings, such as schools managed by the Municipality, and to provide support to a construction of 8 NZEB (nearly zero-energy buildings), designed for kindergartens and after-school programs, in existing school courtyards.</p> <p>The ELENA TA will contribute substantially to the implementation of the investment programme by bringing in missing resources and external expertise, since District 6 municipality has limited experience in energy efficiency projects for public buildings.</p> <p>The ELENA TA will strengthen the resources and capacities of the General Investment Department, within District 6 municipality, with external experts. ELENA TA will bring the know-how and manpower that will accelerate the investments, reaching a high level of energy efficiency improvements and renewable energy installations.</p>
PDS Timeframe	February 2018 – January 2021

Investment programme description	<p>The investments are in the public sector buildings and include two components:</p> <ul style="list-style-type: none"> • Energy retrofit of 11 existing buildings such as schools and kindergartens managed by the Municipality, and • Extensions in existing school courtyards as a construction of 8 NZEB designed for kindergartens and after-school programs <p>The specific measures for the first component of the programme include insulation of walls, roofs, floors and pipes, replacing windows, optimized control and regulation of technical installations, ventilation and heating systems, replacement of inefficient installations (e.g. lighting).</p> <p>The achievement of the nearly zero-energy building standards of the second investment component, renewables (non-fossil) resources will cover at least 10% of the total calculated primary energy of the buildings, primarily in the form of PV. Other measures will include thermal insulation of building envelope, including high-performance windows, automatic blinds for windows, local regulation of heating systems, intelligent architectural design, high-performance mechanical ventilation systems for increased air quality and decreased heating and cooling demand, heat recovery systems, low energy hot water systems, low electricity consumption systems. The ELENA D6EEPB project targets for 2021 115 kWh/m²/year, according with Romanian legislation (transposing EU applicable directives) and will make the best efforts to go around 20% beyond this legal target.</p>
Investment to be mobilized	EUR 24m
Description of the approach to implement the Investment Programme	District 6 Municipality will be responsible for the preparation and implementation of the entire programme as a central purchasing body and will take the final investment decisions, based on the specialized opinion provided by the ELENA TA.
Expected results	<ul style="list-style-type: none"> • RE generation – annual total renewable energy generation 218 MWh_{el} and 476 MWh_{th} • Energy efficiency – annual total savings in the final energy consumption of 5.3 GWh • CO₂ reductions – annual total emission reductions of 1 370 t CO₂ eq
Leverage factor (Minimum 20)	21
Market replication potential	There is a high market replication for this ELENA supported investment programme by other municipalities in Romania. District 6 municipality of Bucharest will share its experience and results via press releases, website and articles in professional media. The project is aiming at the extensive promotion of the obtained results through replication at the level of other institutions.
Status	Contract signed on 16/02/2018
Contact person at Beneficiary	Iulian Gheorghe, iulian.gheorghe@primarie6.ro