

Northern cyprus school energy storage

Procurement category: Energy efficiency

Environmental impacts targeted: The project aims to transform 25 school buildings across Cyprus into Nearly-Zero Energy Buildings.

Relevant EU legislation/policy/guidance: Energy Performance of Buildings Directive (EU/2024/1275)

In 2020, the Cyprus Energy Agency, in collaboration with the Education Unit for the Environment and Sustainable Development of the Ministry of Education, Sports and Youth, initiated the "Promoting Energy Efficiency & Developing Innovative Approaches in Schools" (PEDIA) project with an aim to transform at least 25 public school buildings across Cyprus into Nearly-Zero Energy Buildings (NZEB) and contribute to the fulfilment of the European and National goals of Cyprus for energy and climate. NZEBs are buildings with high-energy performance and low-energy needs, covered largely by onsite and nearby renewable energy sources.

The PEDIA project is the only project in Cyprus that was selected for a grant for technical assistance under the Project Development Assistance (PDA) funding from the EU Horizon 2020 funds. The work's implementation and construction are co-financed through the Cohesion Policy Programme, "THALIA 2021-2027". PEDIA introduces a procedural framework for the energy upgrade in schools to meet NZEB levels by integrating a selection ranking system into existing renovation practices, energy audits, green public procurement, and an Innovative Financing Solution.

PEDIA's procurement process bundles 25 selected schools from across the country into groups of one, two or three buildings, considering the total estimated budget of each procurement as well as the geographic location of the buildings. Notably, these upgrades are delivering the very first NZEB schools in the country.

The first two procurements within the PEDIA project framework were launched in 2022 (Procurement A) and 2023 (Procurement B) respectively.

The explicit objective of the PEDIA procurements is to transform the selected school buildings into NZEBs. The subjects of the procurements were for (Procurement A) the energy upgrade of three existing schools and (Procurement B) the energy upgrade of two existing schools.

The energy upgrade of these schools included the following tasks:

The estimated values of the procurements were EUR724,500.00 (Procurement A) and EUR655,500.00 (Procurement B) respectively.

The table below highlights the most notable sustainable criteria used in the tendering process. These criteria were based on the EU/31/2010 - Energy Performance of Buildings Directive (revised in 2018) which stipulates that all new buildings from 2020 onward must be NZEB and Member States must implement policies that support and stimulate the refurbishment of existing building stocks toward NZEB levels. Other standards and regulations that must be adhered to include:

In cases where the existing frames are aluminium or metal, they are to be replaced with new energy-efficient aluminium frames.

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