

School energy storage rome

A complete energy storage system with metal hydrides MyH2 series, MyH2 SLIM and fuel-cell 12-100-300 W was provided to the school as an upgrade for the hydrogen laboratory and fuel cells for students and teachers. Together a refresher course was created thanks to the staff of engineers of H2planet for the duration of 4h including a part of training for equipment.

Rome is a city full of history. Its heritage buildings are a true treasure for art lovers and tourists alike, but not so much for students. Many young learners in Rome attend schools in buildings that date back to the nineteenth century. Some of these old schools are rundown, badly insulated, and poorly equipped to face the threats of a changing climate.

This is why the city is embarking on its biggest investment in education renovation for decades, aimed at making over 200 schools more energy-efficient and sustainable. But renovations on the oldest building stock are much harder to do.

"Complex upgrades are particularly difficult" says Linda D'Amico, an architect in the City of Rome Public Works and Infrastructure Office, because antique buildings need to be protected and preserved.

These schools are by far the biggest energy consumers among Rome's public buildings, accounting for as much as 95% of total municipal energy consumption. An effective energy efficiency programme could save money and cut carbon emissions. "School buildings are voracious energy consumers," says D'Amico. "Energy-saving measures can reduce pollution and have an important impact on public budget, thanks to reduced costs for heating and lighting."

The renovation is supported by grants from the Italian government, European Union funds under the Italian national plan for metropolitan cities, which is called PON Metro, and a EUR150 million credit line approved by the European Investment Bank in February 2023.

"Our comprehensive set of technical, financial and methodological advisory services will help the City of Rome implement and monitor this project in a timely manner," says Alexander Linke, a senior advisor at the EIB who worked on the project.

"The cooperation with EIB Advisory colleagues has helped the City of Rome face its challenges," says D'Amico. "Their technical assistance has been crucial in translating even smaller building upgrades into lasting improvements to energy consumption, to the environment, and to the welfare of children."

The City of Rome has worked hand in hand with local districts to identify priority buildings with existing energy audits and accessible full information. This way, they can focus on buildings that can be quickly



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updated, with little disruption to school attendance.

Like many young learners getting new clothing at the beginning of the school year, some of the schools in Rome will get new thermal insulation coats, with high energy efficiency. All the selected schools will get new windows, doors, lighting, updated heating systems. Newer builds will also be equipped with photovoltaics and heat pumps.

"This is the biggest investment in educational builds in decades. Our partnership with the EU Bank helps the City of Rome step up its climate action for the sake of a green transition that heralds fresh opportunities for cities", says Roberto Gualtieri, the mayor of Rome.

"We are proud to support the City of Rome in this energy transition project through financing and technical assistance," says Andrea Durante, who worked on the credit line for the European Investment Bank. "The investment will not only have a strong environmental impact, but also a tangible social impact, improving schools from the suburbs to the heart of the city."

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