

Rome PV Off-Grid Energy Storage Project





Overview

Why is a grid-scale battery energy storage system important in Italy?

As the penetration of solar power increases, grid stability has become a critical issue. In response, Italy is prioritizing the development of grid-scale battery energy storage systems (BESS Italy) alongside new industrial and commercial energy storage projects.

How will a new energy storage and management system help the airport?

The introduction of these new energy storage and management systems will allow the maximum use of renewable energy from the solar PV array, to provide balancing services to the National Grid and to reduce the CO2 emissions of the airport, in line with its targets towards “Zero Net Carbon”.

How will Italy's solar power impact grid stability?

This rapid expansion in Italy's solar is fueling the country's drive to have renewables contribute to 65% of electricity consumption by 2030. As the penetration of solar power increases, grid stability has become a critical issue.

How is Italy transforming its energy system?

Italy, like much of Europe, is undergoing a rapid transformation in how it generates and distributes energy. With solar PV and wind power ramping up quickly, grid operators are increasingly reliant on energy storage systems to manage variability and avoid curtailment of renewable energy during periods of oversupply.



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Italy Approves 361 MW of Battery Energy Storage Systems to Boost Grid

Aug 8, 2025 · Italy has approved 361 MW of battery energy storage systems to support renewable energy and grid stability across Lazio, Puglia, and Sardinia.

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