

Expected ROI of household energy storage project in Italy 2025





Overview

With the first auctions for procuring new storage capacity in Italy expected in the second quarter of 2025, Aurora Energy Research has analyzed the internal rate of return for projects supported by the Energy Storage Capacity Procurement Mechanism (MACSE) and found that in certain cases expected returns exceed 9%, providing a high level of revenue security. How much will Italy's energy storage program cost in 2023?

In December 2023, the EU greenlit Italy's energy storage program, earmarking a hefty investment of €17.7 billion. This initiative is anticipated to facilitate the construction of over 9GW/71GWh of energy storage systems (ESS).

How much energy storage capacity does Italy have?

As of November 2024 Italy had 5.1 GW / 11.7 GWh of energy storage capacity. This is almost exclusively small-scale residential system, with utility-scale storage systems providing just 864 MW. To help achieve the target for utility-scale storage build-out, the Italian government has implemented the MACSE subsidy scheme as supporting legislation.

What are Italy's energy storage goals?

Energy Storage Goals: To balance the grid with increased renewable energy, Italy targets 11 GW / 58 GWh of grid-scale energy storage capacity by 2030, requiring substantial investment and development.

How will the energy storage and hydrogen sector perform in Italy?

Mauro Moroni, co-coordinator of the Energy Storage and Hydrogen Working Group at ITALIA SOLARE, foresees a significant acceleration in the sector driven by decreasing module and battery costs, anticipating an increase in sales, especially in the commercial and industrial segments.

Could Italy's grid-scale battery storage market see a massive expansion?



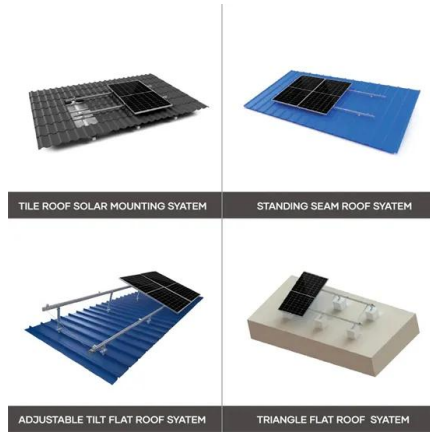
Grid-scale battery storage | Cameron Murray writes about the nascent market for large-scale battery storage in Italy, which could see a massive expansion in the short term. Italy's grid-scale energy storage market: a sleeping dragon
Render of a co-located battery storage project in Italy from Innovo Group.
Credit: Innovo Storage smart power.

How much ESS capacity has been installed in Italy in 2023?

According to ANIE data, as of 30 June 2023, a total of 3,045MW/ 4,893MWh of ESS capacity were installed in Italy, of which 776MWh of residential storage capacity were installed in Q2 of 2023, a 13% decline from the previous year. The reduction is mainly due to the retreat of Superbonus subsidy policy.



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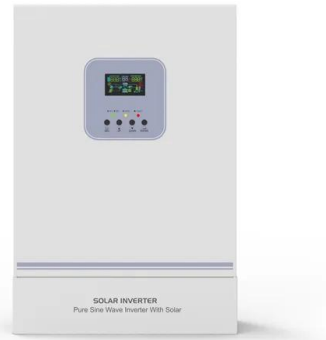


Energy Storage Rides a Wave of Growth but Uncertainty ...

The energy storage sector maintained its upward trajectory in 2024, with estimates indicating that global energy storage installations rose by more than 75%, measured by megawatt-hours ...

Italy Energy Growth in Renewables

However, it is hoped that a concerted, joint effort from the national and local governments and authorities will lead to the authorization of more renewable energy projects. ...



BESS in North America_Whitepaper_Final Draft

Introduction Battery energy storage presents a USD 24 billion investment opportunity in the United States and Canada through 2025. More than half of US states have adopted renewable energy ...



Italy energy storage projects 2025

Does Italy need a long-duration energy storage system? duration energy-storage solutions. As of April 2023,Italy had more than 300,000 storage systems,with a total power of about 2,350 MW ...

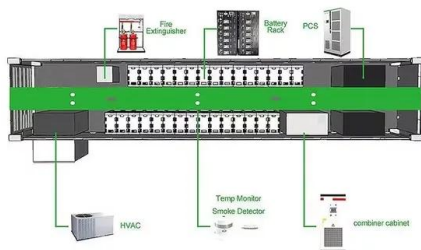


Solar and Battery Storage Expected to Lead New ...

In total, new solar projects in 2025 are expected to make up more than 50% of the planned added utility-scale electric generation for 2025. Combined with planned battery storage capacity, the share is 81% of total ...

MACSE auction: A game changer for Italy's energy ...

With the first auctions for procuring new storage capacity in Italy expected in the second quarter of 2025, Aurora Energy Research has analyzed the internal rate of return for projects supported



Europe's renewables market powers battery storage boom

Europe's battery storage capacity is expected to grow around five-fold by 2030, bringing with it increasing returns for energy majors, project developers and traders, as the ...



How Italy is Driving BESS Investment

Conclusion The build-out of renewable energy storage is a fundamental step for Italy to achieve its 2030 decarbonisation targets. This build-out presents a challenge in the form of higher variable renewable electricity on ...



Italy's MACSE auction will reshape the Italian storage market

First up is the lithium-ion battery energy storage systems (BESS) phase, launching in early 2025, with pumped hydro energy storage (PHES) projects following in a ...

Italy 2025 energy storage projects

The Nardo storage project, located near the municipality of Nardo in the Puglia region of Italy, is expected to be one of the largest battery energy storage systems in the country with a capacity ...



LFP 12V 100Ah

How Italy is Driving BESS Investment

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CIP Partners with GC Storage Services for 2.3 GW ...

Partnering with such an experienced investor like CIP allows us to deliver projects that set new standards for energy storage in Italy." CIP's fifth flagship fund, CI V, held its final close in March 2025 and exceeded the target ...



How Afore's Energy Storage Inverter Transformed a Home in ...

12 ????. The energy storage inverter is compatible with low-voltage (40-60V) lithium-ion and lead-acid batteries, making it versatile and adaptable to evolving storage technologies. In this ...



2025 Predictions for the Energy Storage Sector ...

Energy storage deployment across North America broke records in 2024, driven by falling battery prices, increased system efficiencies, and growing market opportunities. Globally, energy storage deployment increased ...



Energy Storage Rides a Wave of Growth but Uncertainty Looms: ...

This report comes to you at the turning of the tide for energy storage: after two years of rising prices and supply chain disruptions, the energy storage industry is starting to see price ...



European Market Outlook for Battery Storage 2025-2029

The European Market Outlook for Battery Storage 2025-2029 analyses the state of battery energy storage systems (BESS) across Europe, based on data up to 2024 and ...



Italy to hold first energy storage capacity auctions in ...

Much larger projects are expected to come online in the next few years, driven by MACSE. Image: Trina Solar. Minister of the environment and energy security Gilberto Pichetto has signed a decree allowing Italy to proceed ...

Energy Storage in Italy 2025: Trends, Challenges, and the Road ...

Italy's energy mix is like a well-crafted risotto--complex but delicious. With 55% of electricity already coming from renewables (hello, hydro and solar!), the country's next ...



Solar panels in Italy: how much you could save in 2025

Solar panels have become a popular and reliable energy solution in Italy, offering homeowners the opportunity to significantly reduce energy costs while contributing to a more ...



MACSE auction: A game changer for Italy's energy storage sector

With the first auctions for procuring new storage capacity in Italy expected in the second quarter of 2025, Aurora Energy Research has analyzed the internal rate of return for ...



[How Italy is Driving BESS Investment](#)

While Northern Italy currently has the largest installed BESS capacity in the country, a build-out of RES in the South is increasing energy price volatility, creating a more compelling investment case for BESS in this region.

Italy Accelerates Solar Energy and Industrial Energy Storage ...

Rome, April 2025 - In a bold move to meet its EU-mandated greenhouse gas emissions targets, Italy is accelerating its renewable energy strategy under the Integrated National Energy and ...



Stora Italy's grid-scale energy storage market: a sleeping drag

All interviewed agreed that battery storage projects located in the South, where the bulk of Italy's solar PV pipeline is located, would focus on time shifting, while the North might be more ...



The latest developments in the Spanish energy ...

Driven by the goal of energy transformation, Spain's energy storage industry is full of potential, with continuous technological innovation and progress. The government has given strong support in terms of funds and policies, and the ...



Energy storage safety and growth outlook in 2025

Looking ahead: Keys to success Several factors will define the energy storage market in 2025: the continued dominance of LFP chemistry and its downward impact on pricing, increased utility demand for integrated ...

European Market Outlook for Battery EU solar Storage 2025 ...

Welcome to our European Market Outlook for Battery Storage 2025-2029 Though the battery energy storage revolution continued to unfold across Europe in 2024, setting yet another ...



[RENMAD STORAGE ITALIA 2026](#)

Join us on April 15-16, 2026 for the 3rd edition of Italy's leading event on energy storage. The 2025 edition confirmed that energy storage is steadily advancing, with important regulatory updates, stronger public support at both EU and ...



Italy: BESS wins nearly 600MW in 2027 capacity market

The BESS figure is a big jump on the CM auctions for 2025 and 2026 delivery years, which saw 80-90MW of BESS capacity awarded contracts in each. The CM and a new ...



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