

# **Expected ROI of PV energy storage project in Italy 2025**





## Overview

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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 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.

Will Italy lead Europe's energy transition?

Italy's solar market has grown from 4,000 MW in 2005 to over 26 GW in 2023, driven by strong policies and cutting-edge technologies like bifacial panels and agrivoltaics. With ambitious goals of 52 GW by 2030 and 74.6% renewable electricity by 2050, the report examines Italy's plans to lead Europe's energy transition.

Is Italy a leader in industrial energy storage and commercial energy storage?

Accordingly, there is a growing market for industrial energy storage and commercial energy storage projects, positioning Italy as a leader in advanced Italy storage solutions and renewable energy Italy initiatives.

How much will Italy invest in utility-scale storage?

In support of these ambitious objectives, the Italian government recently received approval from the EU Commission for investment schemes aimed at developing at least 70 GWh of utility-scale storage—an initiative projected to attract over €17 billion in investments over the next decade.

How can I get involved in the Italian solar market?



Get involved in the Italian solar market by attending the debut edition of Solar & Storage Italia – taking place 8-9 October. Italy’s solar market has grown from 4,000 MW in 2005 to over 26 GW in 2023, driven by strong policies and cutting-edge technologies.

What will PNIEC Italy do in 2030?

PNIEC Italy envisions a robust energy storage landscape by 2030, targeting a total installation of 22.5 GW. This portfolio includes 8 GW of pumped hydro systems (largely already in place), 4 GW of distributed storage systems connected to residential solar projects, and a significant 11 GW commitment for new utility-scale facilities.



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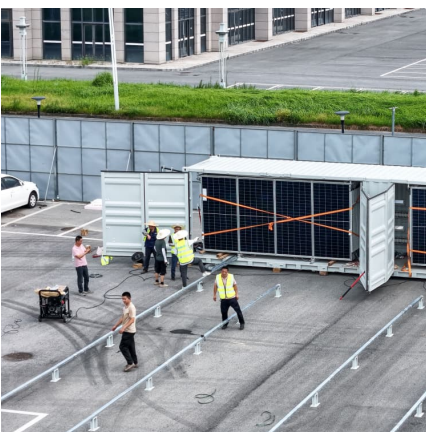


### Italy Solar Market Report 2025

Italy's solar market has grown from 4,000 MW in 2005 to over 26 GW in 2023, driven by strong policies and cutting-edge technologies like bifacial panels and agrivoltaics. ...

### Italy Solar Market Report 2025

With ambitious goals of 52 GW by 2030 and 74.6% renewable electricity by 2050, the report examines Italy's plans to lead Europe's energy transition. It also addresses ...



### [The latest developments in the Spanish energy](#) ...

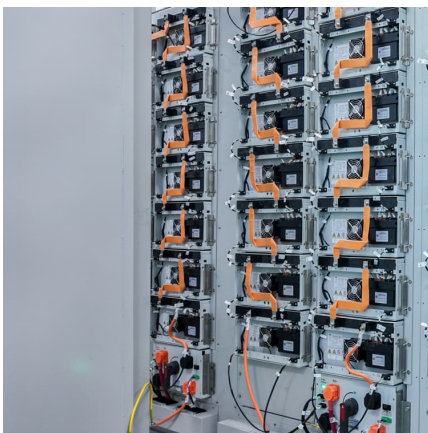
Development trend of energy storage in Spain  
Trend of PV Energy Storage Installed Capacity  
According to forecasts, Spain will generate more than half of its electricity from renewable sources this year, the first of the five European ...

### Italy's MACSE auction will reshape the Italian storage ...

Italy accelerates the transition to renewable energy Italy is stepping into a new energy era with the MACSE auction in early 2025.



Underpinning MACSE, or Meccanismo di Assegnazione Centralizzata per la ...



[Altea selling 2GW of BESS projects in Italy with Q2...](#)

The sales will be facilitated by LevelTen Energy, an international renewable energy asset M&A platform. Image: LevelTen Energy. Developer Altea Green Power is selling 2GW of battery storage projects in Italy with expected ...

[BESS Investment in Italy: Which Market Option is Best?](#)

Market Options Italy's ambitious drive towards renewable energy integration, targeting 50 GW solar and 28.1 GW wind capacity by 2030, has created distinct pathways for Battery Energy Storage System (BESS) ...



**Solar Panel ROI in Italy - Payback, Incentives & Regional Stats**

Discover how fast solar panels pay off in Italy. See ROI timelines, regional case studies, and incentive impact. Calculate your break-even in minutes.



### [Solar Installed System Cost Analysis](#)

Solar Installed System Cost Analysis NREL analyzes the total costs associated with installing photovoltaic (PV) systems for residential rooftop, commercial rooftop, and utility-scale ground-mount systems. This work has ...



### [The Evolving Energy Storage Market in Italy](#)

Poised to overtake Germany in newly installed BESS systems by the end of 2024, Italy's progress is fueled by significant photovoltaic (PV) installations -- 3.3 GW in H1 2024 alone -- and the ...

### **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 ...



### **Italy's Superbonus 110% Explained: Solar Incentives & ROI in 2025**

Discover how Italy's Superbonus 110% transformed solar adoption. Learn about updated 2025 rates, eligibility, ROI, and how to apply before time runs out.



### The Italian energy storage market will enter the peak ...

Due to the imminent delivery of the large-scale storage project in the capacity auction and the launch of the MACSE auction mechanism, Italy's energy storage has strong growth potential. It is expected that the installed ...

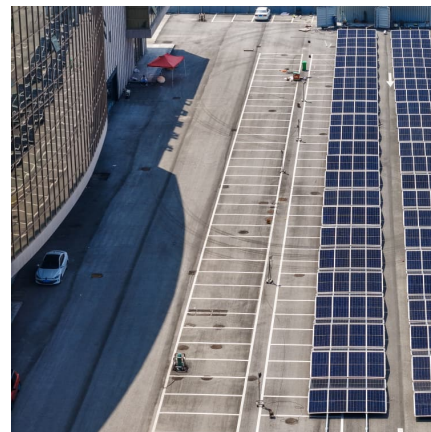


### Marketwatch: Italy 'most vibrant' European storage market

Italy forecast to deploy more storage capacity than any other European nation in 2024 BW ESS, Emeren, Nuveen, Energy Vault, Octopus & Pacific Green among players to ...

### 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 ...



### [Energy Storage in 2025: What's Hot and What's Next?](#)

The energy storage landscape is changing quickly as scientists work to create better and longer-lasting storage solutions. Experts are focused on improving smart grids to ...



### [POWER: Italy Sets 2025 Energy Priorities on Storage](#)

The government aims to accelerate permitting for renewable projects and simplify environmental approvals while boosting storage deployment to support the integration of solar and wind power.



### [Solar and BESS projects in Italy reach ready-to-build](#)

Three Korkia's solar power plant projects and a Battery Energy Storage System (BESS) have successfully reached the ready-to-build phase (RTB) in Italy.

### **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 ...





### Italy Accelerates Solar Energy and Industrial Energy Storage ...

The government has set ambitious goals for increasing renewable energy on the national grid, with a particular focus on bolstering both solar energy and energy storage ...

### [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 by the Energy Storage ...



### Italy's energy storage market is growing explosively, with ...

According to data released last week by Italian solar energy association Italia Solare, Italy's independent energy storage installations surged in the first half of 2024, with a ...

### Italy - pv magazine International

Italy approves 648 MW of new battery projects  
Italy's environment and energy ministry has approved six utility-scale battery storage projects in Lazio, Campania, Basilicata and Puglia.



### Italy's EUR9.7 billion plan to boost renewables and reach ...

With these mechanisms, Italy aims to accelerate its clean energy transition while maintaining financial stability. How will the scheme help Italy expand its renewable energy capacity? The EUR9.7 billion state aid scheme ...



### billyprim

ASEAN (Bangkok) Solar PV & Energy Storage Expo 2025 is a premier event dedicated to the advancement of solar photovoltaic (PV) technology and energy storage solutions in Southeast ...



### 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 Outlook 2025: Energy Storage

IRENA also released an Innovation Outlook on Thermal Energy Storage, further supporting advancements in this critical area. A strong outlook for 2025 In summary, the energy storage market in 2025 will be shaped by ...



### [Energy storage market analysis in 14 European ...](#)

Volatile energy prices and the popularity of photovoltaic self-use have driven demand for residential energy storage, which is expected to continue to grow through 2030. In addition, Germany plans to hold its first capacity market ...

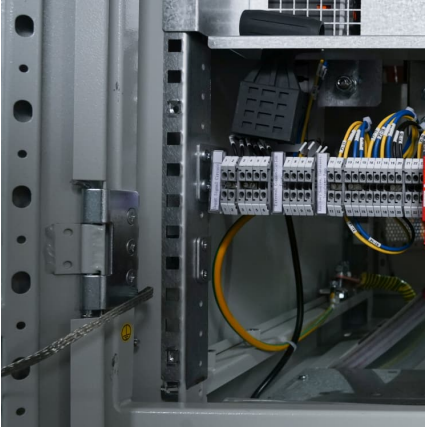
### ContourGlobal acquires energy storage projects in Italy ahead of ...

This transaction is complemented by the acquisition of a 98 MW project, in Southern Italy, from a pan-European renewable energy investment and development platform. ...



### 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 ...



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