

**JH Solar**

# Italian energy storage industry



## Overview

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Italy is expanding its energy storage sector in order to achieve its goal of 70% renewable electricity by 2030. Storage has become indispensable for the purpose of regulating volatility and guaranteeing a resilient grid, as solar and wind output has increased. The investment in battery storage and.

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Trade body Italia Solare has processed data from electricity transmission system operator (TSO) Terna which shows standalone storage is the biggest new market development. From ESS News Italy had 650,007 grid-connected energy storage systems at the end of June 2024, according to Italian PV.

The Italian energy storage market is a subject of increasing importance within the European Union's renewable energy agenda. As one of the continent's leading markets for battery energy storage systems (BESS), Italy's progress offers a wealth of opportunities and insights. This relevance stems not.

To meet the European Union (EU)'s energy and climate greenhouse gas emissions targets by 2030, EU countries need to establish a 10-year integrated national energy and climate plan between 2021 and 2030. Italy has one in place called PNIEC. PNIEC aims for renewables to contribute to 40% of gross.

Top 3 European Markets for Battery Storage Installations in 2023 Germany, the U.K., and Italy emerged as the leading markets for battery storage installations in Europe during 2023. According to TrendForce statistics, Germany, the U.K., and Italy added capacities of 6.1GWh, 4.0GWh, and 3.9GWh.

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 Climate Plan (PNIEC Italy). The

government has set ambitious goals for increasing renewable energy on the national.

Italy's cumulative 692,386 energy storage systems, installed by Sep. 30, 2024, had a total power output of 5,034 MW and storage capacity of 11,388 MWh, according to the National Federation of Electronic and Electrotechnical Companies (Anie). Italy's Anie said the boost for small-scale energy. 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 many energy storage systems are there in Italy?

As of Sep. 30, 2024, Italy had a cumulative 692,386 energy storage systems, with a total rated power of 5,034 MW and an energy storage capacity of 11,388 MWh. Almost all of the systems - 92% - had a capacity of less than 20 kWh, 99.9% were twinned with solar panels, and 99.1% were home installations.

Why is energy storage important in Italy?

In addition, electricity storage is critical to avoid congestion in the power grid since most of the renewable production originates in Southern Italy but is consumed mostly in the north. Therefore, PNIEC also provides for the installation of new energy storage infrastructure with the aim of reaching 22.5 GW of installed storage capacity by 2030.

Does Italy need electricity storage?

As Italy's energy mix is increasingly composed of variable renewable energy sources, electricity storage will be needed to integrate power generated by renewables into the national grid and make it available when sun and wind energy are not accessible.

How will Italy invest in electricity storage?

Italy will promote investments in utility scale electricity storage to reach at least 70 GWh, and worth over Euro 17 bn, in the next ten years. The new storage capacity will be acquired through tenders published by Terna, the manager of Italy's high voltage grid. The next tender will be released in 2024.

How many energy storage units did Italy add in 2024?

Anie reported Italy added 168,550 energy storage units from January to the end of September 2024, with a total rated power of 1,591 MW and a capacity of 4,387 MWh.

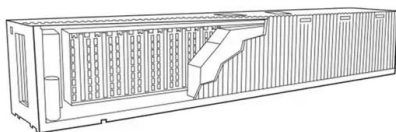
## Italian energy storage industry

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### Italy Energy Storage

Italy will promote investments in utility scale electricity storage to reach at least 70 GWh, and worth over Euro 17 bn, in the next ten years. The new storage capacity will be ...



### **Global energy storage market: review and outlook-Industry ...**

The global energy storage market added 175.4 GWh of installed capacity in 2024, with the three major regional markets--China, the Americas, and Europe--continuing to ...

### **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



### **Sungrow contracts 140 MW of batteries under ...**

The Italian energy storage market is developing rapidly, with a focus on utility-scale sites, as project prices have stabilized at around EUR110 (\$125) per kilowatt of rated power. "The C& I [commercial and ...

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 FLEXIBLE DEPLOYMENT



## The Evolving Energy Storage Market in Italy

This whitepaper explores the Italian energy storage market at three levels: macro-level analysis, micro-level insights, and market forecasts, providing a comprehensive understanding of this ...

## Italy signs EUR320 million in energy subsidies, energy storage ...

In January-October 2024, Italy added 6,042 MW of installed renewable energy capacity, including 5,482 MW of photovoltaic, an increase of more than 30% year-on-year ...



## Italy Battery Energy Storage Market (2022-2031) , Size & Value

Italy Battery Energy Storage Market Size Growth Rate The Italy Battery Energy Storage Market may undergo a gradual slowdown in growth rates between 2025 and 2029. Starting high at ...

## Italy leads the energy storage technology industry

Executive summary - Italy 2023 - Analysis Executive summary. Italy's energy system has changed notably since 2010 and today the country's energy mix includes more natural gas and ...

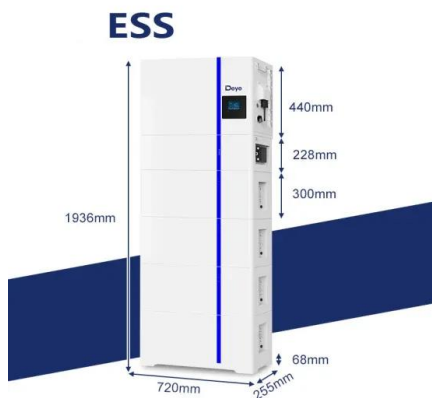


## report on the development of Italian energy storage industry

Energy Storage , Department of Energy Energy Storage. The Office of Electricity's (OE) Energy Storage Division accelerates bi-directional electrical energy storage technologies as a key ...

## Italy added 25% more energy storage systems in Q2

Italy had 650,007 grid-connected energy storage systems at the end of June 2024, according to Italian PV association Italia Solare, with a total of 4.5 GW of rated power. "During the first half



## Energy in Italy: Trends and opportunities , Herbert ...

The energy sector continues to be a cornerstone of Italy's economic and environmental strategy, driving resilience and innovation amidst global market challenges. As the country aligns with European ...

## Energy-Storage.News

Global energy storage technology and energy software services provider Fluence and ACE Engineering have opened a new automated battery storage manufacturing facility in Vietnam's Bac Giang Province.



## **Energy S.p.A plans 8 GWh battery production site ...**

Incentive payments, and a need for businesses to stabilize energy costs, on the other hand, prompted the Energy S.p.A. chief executive to predict an expansion in Italy's commercial and industrial energy storage ...

## **Italian energy storage auction MACSE postponed ...**

Italian transmission system operator (TSO) Terna said that Italy's first energy storage capacity procurement mechanism (MACSE) will be postponed until September 2025.



## **Energy in Italy: Trends and opportunities**

The energy sector continues to be a cornerstone of Italy's economic and environmental strategy, driving resilience and innovation amidst global market ...

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

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 ...



## Forecasting the Development of Italy's Energy ...

Policy changes in Italy are expected to have a significant impact on the European energy storage market, potentially leading to changes in local energy storage installations in 2024.

## Italian Energy Storage Company Profile 2024: Valuation, Funding

Information on valuation, funding, acquisitions, investors, and executives for Italian Energy Storage. Use the PitchBook Platform to explore the full profile.



## ITALY

Italy's battery storage market has become one of the largest and most dynamic in Europe. Italy has both a rapidly growing utility-scale market as well as a flourishing customer-sited battery ...

## BESS industry gears up for Italy kick-off with first MACSE auction

Terna is the Italian TSO and is driving the grid-scale storage market in Italy by opening up business opportunities for the technology.  
Image: Terna. The grid-scale energy ...



## Top 10 Energy Storage Companies in Italy , PF Nexus

This article highlights the most prominent developers, EPCs, and solution providers in the Italian energy storage market, presenting the top 10 companies. These actors ...

## 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 ...



## Italy to hold first energy storage capacity auctions in H1 2025

The energy minister of Italy has signed a decree paving the way for an energy storage capacity auction to kick off in the first half of 2025.

## Italian battery investment is about to surge

Timera Energy look at implementation of a new long term contract support mechanism for storage in Italy that is set to drive a surge in battery investment.



## Innovative energy storage auction and renewables-friendly policy ...

London-based investor Bluefield says Italy's cautious, 'stop-start' approach to clean energy and energy storage procurement is less catastrophic than Spain's boom-bust ...

## Italy energy storage market doubles in size in first ...

Most of Italy's battery energy storage deployments to-date have been in the residential sector, but large-scale systems connected to the country's grid, operated by Terna, are set to come online in the next few ...



## 2025 Italian Energy Storage Industry Expo: Trends, Innovations, ...

A country that gave us Renaissance art and espresso machines is now leading Europe's energy storage revolution. The 2025 Italian Energy Storage Industry Exhibition ...

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

The energy minister of Italy has signed a decree paving the way for an energy storage capacity auction to kick off in the first half of 2025.



## Italy's grid-scale energy storage market: a sleeping dragon

The Italian grid-scale energy storage market is set to become one of the most active in Europe in the next few years, having been close to non-existent until now. While the residential sector ...

## Italian Energy Storage Mica: The Secret Sauce Behind Europe's ...

A sun-drenched Italian vineyard where solar panels and battery systems work like nonna's kitchen - quietly efficient and bursting with potential. Welcome to Italy's energy ...



## Italian Power Storage Applications: A Surge Fueled by Policy and

But why should you care? Whether you're a solar developer, grid operator, or sustainability enthusiast, Italy's blueprint offers actionable insights into policy-driven growth and ...

## Terna allocates 43 GW in Italian capacity market auction for 2027

On Feb. 26 Terna announced the results of its capacity market auction, allocating 43 GW for the delivery year 2027, for more than EUR1.847 billion. Industry insiders ...



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