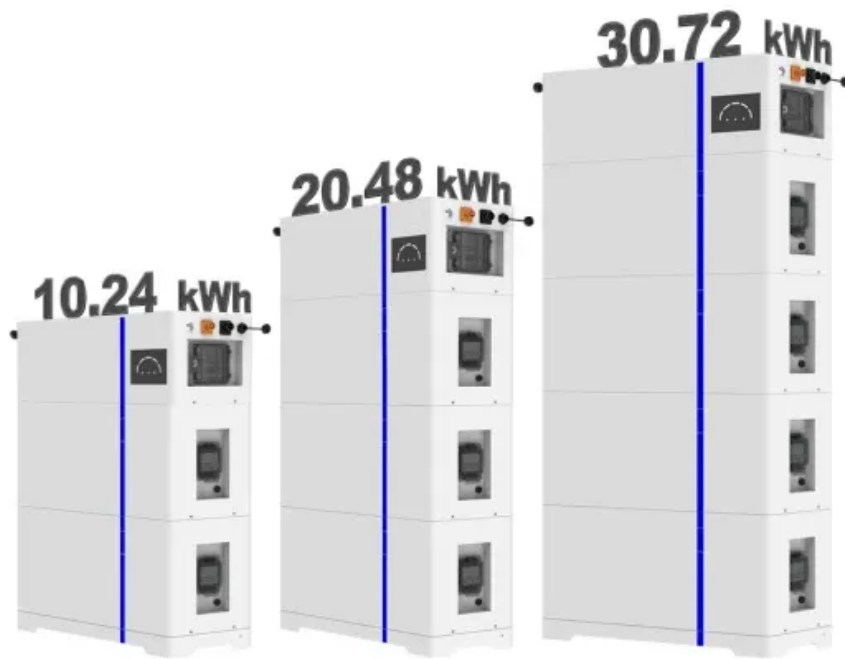


Global PV Storage Insights

Business energy storage tender price in Italy 2030

ESS



Overview

The grid-scale energy storage market in Italy holds much promise with very ambitious deployment targets for 2030, but it may be difficult for the industry to deliver on those targets.

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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 storage market in Italy holds much promise with very ambitious deployment targets for 2030, but it may be difficult for the.

Underpinning MACSE, or Meccanismo di Assegnazione Centralizzata per la Sostenibilità Energetica, is an ambitious plan to boost renewable energy integration and support up to 50GWh of energy storage by 2030 – a move to ensure Italy's energy security and sustainability. First up is the lithium-ion.

Renewable Energy Targets: Italy aims for renewables to contribute over 40% of gross final energy consumption and 65% of electricity consumption by 2030, driving significant growth in renewable energy installations. Energy Storage Goals: To balance the grid with increased renewable energy, Italy.

However, Terna still has a substantial procurement target of 50 GWh of storage capacity by 2030 under the MACSE scheme. In Diagram 1 we summarise how storage flexibility will be key to support RES deployment (top panel) & Terna's target storage capacity volumes (bottom panel). This takes into.

Energy market analytics specialist Aurora Energy Research has published a new report focusing on the auction system of the Electricity Storage Capacity Procurement Mechanism (MACSE) which aims to provide the Italian electricity system with the storage capacity it needs to support achievement of.

Italy is accelerating its energy transition with ambitious targets and a robust

policy framework, aiming to deploy 71.5 GWh of energy storage capacity by 2030. A central element of this strategy is the MACSE mechanism, whose first auction is expected soon. This upcoming tender has already attracted. 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.

Are battery energy storage systems needed in Italy?

Therefore, battery energy storage systems (BESS) are needed in Italy. The Italian market for BESS is growing rapidly and currently amounts to 2.3 GW but it almost exclusively consists of residential scale systems, associated with small scale solar plants, having a capacity of less than 20 kWh.

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.

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.

Is Bess a good investment in northern Italy?

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.

What is the largest energy storage system in Italy?

The ESS is the largest in Italy and one of the largest in Europe since it can store two-megawatt hours (2MWh) of renewable energy for release into the

grid as needed.

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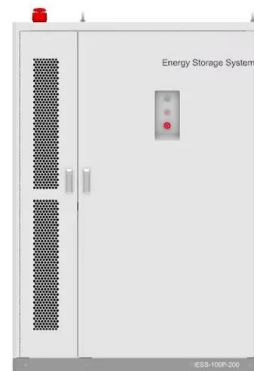


How Italy is Driving BESS Investment

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 approves 10 GWh quota for first MACSE storage ...

Terna calculated Italy will need 10 GWh of energy storage capacity to maintain reliable grid electricity supply in 2028. That figure, or slightly less, will be the amount available to developers who participate in the country's ...



Italian grid company Terna fields 100 GW+ requests ...

A spokesperson for the electricity transmission system operator (TSO) Terna has revealed huge interest in the energy storage-specific Centralized Allocation Mechanism for Energy Sustainability (MACSE) tender ...

Revolutionizing Italy's Energy Storage Scene: The MACSE Auction

The MACSE auction in Italy is poised to bring about a complete overhaul of the country's

energy storage scenario according to a report from Aurora Energy Research. By ...



Italy's MACSE auction will reshape the Italian storage market

At stake is Italy's ability to hit its 2030 renewable targets while boosting grid capacity and potentially bringing down electricity costs for consumers. It's Italy's chance to step ...

EU approves Italy EUR17.7 billion state aid for energy ...

The European Union (EU) Commission has approved a state aid scheme aiming to fund the rollout of over 9GW/71GWh of energy storage in Italy. The scheme totalling EUR17.7 billion (US\$19.5 billion) will provide annual ...



Unlocking Opportunity

Analysing Spain's battery storage landscape LCP Delta and Santander Corporate & Investment Banking Providing insight, analysis and finance to support the global energy transition LCP ...

Energy Storage Systems in Italy: a new mechanism for the

This mechanism would allow the national energy system to acquire new storage capacity, by means of multi-year supply contracts to be awarded to subjects in the availability ...



Update on Italian BESS investment case & MACSE ...

The Diagram illustrates how storage is particularly key in the Southern & Island regions which will soon face a critical flexibility deficit due to lack of storage and interconnection capacity.

Batteries awarded five-year grid services

Italy's transmission system operator Terna has awarded five-year contracts for battery energy storage systems (BESS) to provide Fast Reserve grid services in an oversubscribed pilot auction. After Terna rolled out ...



Planning issues to hold back Italian energy storage growth

Italian transmission system operator (TSO) Terna said that 1GW of storage linked to solar farms will be needed by 2025 to help maintain system adequacy, with additional ...

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 ...

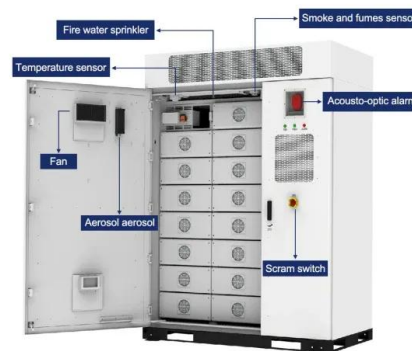


BESS dominate new wins in capacity markets in Italy and Belgium

A render of Engie's Kallo BESS in Belgium which won a contract. Image: Engie. Capacity market auctions have concluded in Italy and Belgium and battery energy storage ...

Italian energy storage auction MACSE postponed until ...

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



Overflooded Italy battery tenders raise remuneration worries

Through these tenders - known as Macse auctions - Terna is looking to assign 71 GWh of new grid-scale energy storage by 2030. Such storage not only provides grid ...

Energy storage market analysis in 14 European ...

The European Energy Storage Market Monitor (EMMES) updates the analysis of the European energy storage market (including household storage, industrial storage and pre-metre storage) and forecasts until 2030. The report covers ...



Italy: BESS wins nearly 600MW in 2027 capacity market

The CM and a new energy storage-only auction scheme called MACSE are set to form the bedrock of the business case for grid-scale storage in Italy, something that ...

Italy Energy Storage Market 2024-2030

Rock-based Energy Storage Facility was introduced by Enel and Brenmiller in Italy. The majority of renewable energy sources are seasonal and rely on a natural energy source.



Italian 2027 Capacity Market Auction: MACSE's

On 26 th February 2025, Terna held Italy's Capacity Market (CM) auction for the 2027 delivery year, assigning 38 GW of derated capacity (CDP) in 1-year contracts and almost ...

Energy storage to soar in Spain and Italy but questions remain

Energy storage is set to soar in Spain and Italy in the coming years but there are question marks around the regulatory frameworks in each.



How Batteries benefit from Terna's tender process

Europe's battery energy storage system market, long dominated by the UK, is set to welcome a new leadership contender in 2024. Italy's transmission system operator, ...

Italy needs 71GWh of new grid-scale energy storage ...

An operational PV plant in Italy. Image: NextEnergy Capital. A total of 71GWh of new grid-scale energy storage needs to be deployed in Italy by 2030 for it to decarbonise its energy system in line with the EU targets. ...



CIP enters Italian market with 2.3 GW BESS pipeline

The Danish infrastructure investor has joined hands with GCSS to develop the pipeline of large-scale, standalone battery energy storage projects across both northern and southern Italy.

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



The Evolving Energy Storage Market in Italy

THE EVOLVING ENERGY STORAGE MARKET IN ITALY Introduction The Italian energy storage market is a subject of increasing importance within the European Union's renewable energy ...

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

The grid-scale energy storage market in Italy holds much promise with very ambitious deployment targets for 2030, but it may be difficult for the industry to deliver on those ...



Marketwatch: Italy 'most vibrant' European storage ...

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 have made moves in Italian market in last year ...

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.

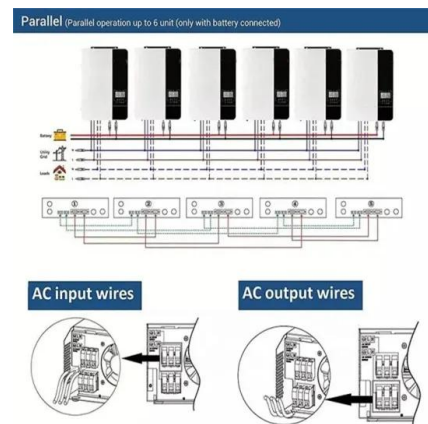


Italy's energy storage market is growing explosively, with ...

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, Great Britain and Germany most attractive ...

Ambitious capacity targets and diverse revenue opportunities support case for battery energy storage system (BESS) investment in key European markets, new report from Aurora Energy Research finds. The fourth ...



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