

Global PV Storage Insights

Expected ROI of portable ESS system project in Italy 2025



Overview

How much Bess capacity does Italy have in 2025?

As of March 2025, Italy has got 1GW of grid-scale BESS capacity online, placing the country in third place in Europe (shared with Ireland) in terms of installed capacity, behind Germany (1.6GW) and the UK (5.6GW). Another 1.75GW is under construction, projects totaling 230MW have obtained permits, and 1.2GW of new BESS capacity has been announced.

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.

How is the Italian government aiming for 15GW of Bess capacity?

The Italian government is aiming for 15GW of BESS capacity by 2030 to maintain security of supply. The Italian government, regulator, and Transmission Service Operator (TSO) are creating an attractive regulatory environment for BESS by offering multiple incentive schemes and updating the grid code.

What is BW ESS & ACL energy doing in Italy?

In one of the most recent developments, it was announced last week that BW ESS and ACL Energy have expanded their joint project development pipeline for standalone, utility-scale battery energy storage systems (BESS) in Italy to 2.9GW, with a total of 14 projects to be developed across Italy's North and South electricity zones.

What is the business case for Bess in Italy?

Revenue Streams for BESS: The business case for BESS in Italy is underpinned

by four main revenue streams: wholesale trading, the Ancillary Services Market (MSD), the Capacity Market (MC), and the new energy storage subsidy scheme (MACSE).

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.

Expected ROI of portable ESS system project in Italy 2025



Enel inaugurates 10 MWh second-life battery project at ...

...

Enel's Pioneer project is expected to last 10 to 15 years and has been integrated with Rome-Fiumicino airport's Solar Farm, self-consumption PV system.

The Italian battery playbook 2025: How to make money with storage

6 ???· The Italian battery playbook 2025: How to make money with storage Mauro Moroni offers a quick guide to revenue streams for Italian battery energy storage systems (BESS), ...



Utility-scale batteries show exponential growth in Italy

The development of bigger battery energy storage systems (BESS) is booming in Italy, but deployment of residential and commercial and industrial (C& I) equipment fell in 2024.



Italy's Terna expects 758 MW of energy storage, ...

Electricity transmission system operator (TSO) Terna expects 224 MW of clean energy and storage sites in the northern region of its grid but

only 22 MW in the southern, Calabria section of the network.



Italian PV & ESS Market: Key Insights for Businesses and Investors

The 18th KEY The Energy Transition Expo will be held in Romini, Italy from 5 to 7 March, 2025. The Italian photovoltaic and energy storage markets deserve special attention ...

Germany: 'Europe's hottest energy storage market for ...

BW ESS and MIRAI Power's joint development agreement signed last week will target 1GW of projects in southern Germany. Image: BW ESS. Germany is currently the "hottest market in Europe today from a ...



Italian PV & ESS Market: Key Insights for Businesses and Investors

In January 2025, the European Investment Bank (BEI) invested 100 million euros in Iberdrola's photovoltaic project in Sicily, which is located between Enna and Catania.

Italy solar photovoltaic industry

Italy is one of the leading solar photovoltaic electricity markets in the European Union. In 2024, it had one of the largest cumulated solar PV capacities in the region, where it ...



BW ESS Celebrates Inauguration of the UK's Largest Battery ...

About BW ESS BW ESS is a global energy storage owner-operator, moving with speed to develop and build market-leading energy storage projects across multiple countries. ...



ContourGlobal announces 9.5 GWh BESS acquisitions in Italy

ContourGlobal has announced that it has acquired 1.6 GW of battery energy storage system (BESS) projects in Italy with up to 9.5 GWh of energy storage capacity ahead ...

Lithium Solar Generator: \$150



ContourGlobal announces 9.5 GWh BESS ...

ContourGlobal has announced that it has acquired 1.6 GW of battery energy storage system (BESS) projects in Italy with up to 9.5 GWh of energy storage capacity ahead of the MACSE auctions. The entire portfolio is ...

Italy approves 648 MW of new battery projects in Central and ...

...

Between August 7 and 11, 2025, Italy's Ministry of Environment and Energy Security (MASE) gave the green light to six large-scale battery storage projects located in Lazio, Campania, ...

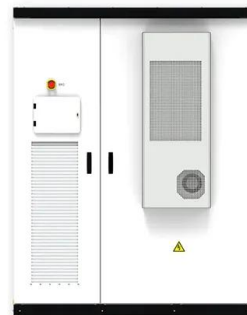


MACSE auction: A game changer for Italy's energy ...

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 ...

Global energy storage market: review and outlook

By country, Italy is expected to maintain its position as Europe's largest energy storage market, with Germany ranking second and the FTM market in Germany likely to ...



Italian 2027 Capacity Market Auction: MACSE's impact & the ...

...

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 ...

Latest Grid-scale/Utility Scale Energy Storage System (ESS) Projects ...

Italy Grid-scale/Utility Scale Energy Storage System (ESS) Industry Analysis The Grid-scale/Utility Scale Energy Storage Systems (ESS) industry in Italy is currently experiencing a surge in ...



Italy's Terna expects 758 MW of energy storage, renewables in ...

Electricity transmission system operator (TSO) Terna expects 224 MW of clean energy and storage sites in the northern region of its grid but only 22 MW in the southern, ...



Jinko ESS Secures Grid-Scale Energy Storage ...

The projects will deploy Jinko ESS's G2 5MWh liquid-cooled containerized systems in October 2025 and in March 2026 respectively, providing frequency regulation and renewable energy integration services for Italy's ...



The Real Cost of Commercial Battery Energy Storage in 2025

Discover the true cost of commercial battery energy storage systems (ESS) in 2025. GSL Energy breaks down average prices, key cost factors, and why now is the best time ...



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.



BESS Investment in Italy: Which Market Option is Best?

Think of it as a stable, long-term partnership: projects get high revenue certainty (over 90%) through fixed capacity payments from Terna, Italy's trusted grid operator.

ESS Technologies: Recent advances and policy ...

While the ESO was mandated by the MoP, the ministry recently issued an advisory notice on co-locating ESS with solar power projects, advising all renewable energy implementing agencies and state utilities to integrate two ...



Energy Storage Systems (ESS) Projects and Tenders

Content Owned by MINISTRY OF NEW AND RENEWABLE ENERGY Developed and hosted by National Informatics Centre, Ministry of Electronics & Information Technology, ...

Energy Storage Systems Market Size, 2025-2034 ...

The energy storage systems market size exceeded USD 668.7 billion in 2024 and is expected to grow at a CAGR of 21.7% from 2025 to 2034, driven by the rising demand for grid stabilization and energy efficiency.



Utility-scale leads as Italy adds 4.4 GWh of energy ...

Utility-scale leads as Italy adds 4.4 GWh of energy storage in nine months 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 ...

Latest Energy Storage & Battery Technology Updates ...

The Italian battery playbook 2025: How to make money with storage Mauro Moroni offers a quick guide to revenue streams for Italian battery energy storage systems (BESS), including the MACSE procurement, the Testo ...



Europe Energy Storage System Market Size, Report 2025 to 2034

The Europe energy storage system market size is expected to be worth around USD 421 billion by 2034 and is growing at a CAGR of 14.68% from 2025 to 2034.

SMM: Global ESS market demand may reach around 470 Gwh ...

The growth rate of the global ESS market from 2025 to 2030 is expected to be approximately 10%, and the global ESS market demand may reach around 477 Gwh by 2030.



Italy approves 648 MW of new battery projects

From ESS News A decree issued on Aug. 7, 2025, authorized a 120 MW battery energy storage system (BESS) developed by BESS Sessa Aurunca S.r.l. The facility will be ...

BESS in Italy: Huge growth market faces CE mark ...

On average, the time to complete the entire process takes from six to twelve months." The final considerations emphasize that, despite the need to overcome several obstacles for the installation of an energy storage system, ...



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