

Expected ROI of utility scale ESS project in Italy 2025



Overview

Is Italy's energy storage landscape undergoing a major shift in 2024?

Italy's energy storage landscape is undergoing a major shift, with utility-scale battery energy storage systems (BESS) experiencing exponential growth in 2024, even as residential and commercial & industrial (C&I) installations decline, according to a new report by industry group Anie. Utility-Scale BESS Dominates Market.

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 did Italy achieve a milestone in its energy infrastructure?

Italy achieved a milestone in its energy infrastructure with nearly 520 thousand installations connected, increasing by 67% in energy storage systems and reaching.

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.

Why did Italy expand its energy storage capacity last year?

Italy significantly expanded its energy storage capacity last year, driven by large-scale projects exceeding 1 MWh. Anie, a division of national business organization Confindustria, reported that installed storage capacity surged from 507 MWh in 2023 to 3,359 MWh in 2024, while installed power capacity jumped from 222 MW to 851 MW.

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.

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ACL Energy, BW ESS and Penso Power form Italian ...

BW ESS and Penso Power were advised by the law firm Bird & Bird. - END - About ACL Energy ACL Energy is an independent energy infrastructure development company focused on utility-scale battery energy ...

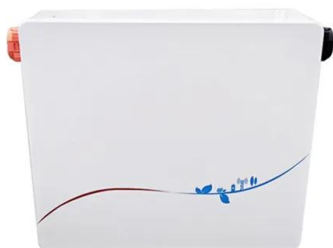
BW ESS and ACL Energy expand Italian BESS ...

BW ESS and ACL Energy have announced a significant expansion of their joint project development pipeline for stand-alone, utility-scale battery energy storage systems (BESS) in Italy. Building on their initial ...



Update on Italian BESS investment case & MACSE ...

2025 is set to see the start of a surge in Italian storage asset investment, led by BESS. The catalyst for this is the implementation of the new MACSE policy support mechanism, offering 15 year indexed contracts on up to ...



Utility-scale batteries show exponential growth in Italy

Utility-scale batteries show exponential growth in

Italy While the development of bigger battery energy storage systems (BESS) is booming, deployment of residential and ...



2025 to be record year for U.S. big batteries, EIA says

The U.S. Energy Information Administration (EIA) expects utility-scale solar and battery storage to lead new generating capacity additions in 2025. Following a record growth in utility-scale battery storage in 2024, which saw ...

BW ESS and Zelos advance 1.5GW BESS project pipeline in ...

BW ESS and Zelos Energy Developments are working on a 1.5GW portfolio of utility-scale battery energy storage system (BESS) projects in the northeastern federal German ...



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.

BW ESS, Penso Power to set foot in Italy via 395-MW ...

ACL Energy is focused on utility-scale BESS projects in Italy, with a pipeline totalling around 5 GW. Penso and BW ESS have a well-established partnership. In mid-2023, for instance, the companies tapped ...

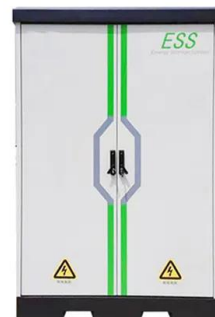


BW ESS and Zelos advance a 1.5 GW BESS project ...

16 April 2025, Zürich / Berlin - BW ESS and Zelos Energy Developments today announce that they are working on advancing a 1.5 GW portfolio of utility-scale battery energy storage system (BESS) projects in the federal states of ...

BW ESS, Penso Power to set foot in Italy via 395-MW battery JV

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

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 ...



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 ...



Jinko ESS Secures Two Major Grid-Scale Energy Storage ...

Recently, Jinko ESS has successfully won two 5MWh grid-scale energy storage projects in Italy, marking its official entry into the Italian large-scale storage market.

Egypt's first utility-scale battery, Africa's biggest solar-plus

Two major announcements within just five days signal the rapid acceleration of ...



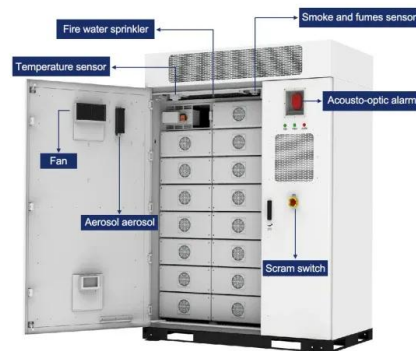
Germany, Italy, UK, Netherlands, Spain to lead ...

Germany, Italy, the United Kingdom, the Netherlands, and Spain will lead a market dominated by large-scale batteries, with hybrid renewables-plus-storage sites becoming the norm, helped by regulatory support and ...



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.



More than \$600m for four US utility-scale batteries

More than \$600m for four US utility-scale batteries Recurrent Energy, Jupiter Power and Peregrine Energy Solutions have secured finance for a cumulative 550 MW of utility ...



SOUTHEAST ASIA'S LARGEST ENERGY STORAGE ...

Based on independent assurance provider DNV's global database of 4,210 ESS projects totalling 32GWh and publicly available information as of January 5, 2023 for a comparable size utility ...



Europe Sparks Change with Electricity Market Reform

Italy and Greece are poised for explosive growth in utility-scale installations between 2023-2025, thanks to supportive policies. Meanwhile, short-term installation growth in ...

List of Upcoming Grid-scale/Utility Scale Energy Storage System (ESS)

Search all the announced and upcoming GUSESS projects, bids, RFPs, ICBs, tenders, government contracts, and awards in Italy with our comprehensive online database.



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

At the show, Del Pizzo said Terna expects Italy will have installed around 7.5 GW of renewables plants during 2024, with 8 GW or 9 GW expected in 2025. The manager said a flood of utility-scale sites is on the way ...

Home Energy Storage (Stackble system)



BW ESS and Zelos advance a 1.5 GW BESS project pipeline

BW ESS and Zelos Energy Developments today announce that they are working on advancing a 1.5 GW portfolio of utility-scale battery energy storage system (BESS) projects ...



[Grid-Scale Projects News , ESS News](#)

Italy approves 648 MW of new battery projects in Central and Southern regions Between August 7 and 11, 2025, Italy's Ministry of Environment and Energy Security (MASE) gave the green light ...

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

Meanwhile, as utility-scale storage projects in Spain, Belgium, and other countries, gradually come online in 2025, the European market will shift from being dominated ...





Jinko ESS secures grid-scale energy storage projects in Italy

Jinko ESS has announced that it has secured 5MWh grid-scale energy storage projects in Italy, marking its official entry into the country's utility-scale storage market. The ...

Powering Ahead: 2024 Projections for Growth in the European ...

Among these, utility-scale ESS installations accounted for 2GW, representing 44% of the total power. EASE predicts that in 2023, new European energy storage installations ...



BW ESS and ACL Energy expand Italian BESS partnership

Partners' pipeline of mid-stage BESS projects in Italy now stands at 14 projects and 2.9 GW 21st November 2024, ZÜRICH/MILAN -- BW ESS and ACL Energy have ...

BESS in Germany 2025 and Beyond: Use Cases, Business ...

BESS Capacity across Germany and Projected Growth By mid-2024, Germany's total BESS capacity reached 16 GWh, which included: 13 GWh residential 1.1 GWh ...



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

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Jinko ESS secures grid-scale energy storage projects in Italy

Jinko ESS has announced that it has secured 5MWh grid-scale energy storage projects in Italy, marking its official entry into the country's utility-scale storage market. The projects will deploy ...



Energy S.p.A plans 8 GWh battery production site in Italy

"For utility-scale [energy storage], growth will depend on public support mechanisms but we expect a major increase from 2024." *This article was updated on April 23 to reflect the fact that Phase 2 involving the construction of ...



Italy: BESS wins nearly 600MW in 2027 capacity market

Utility Enel is the only company actively in construction on a substantial BESS portfolio in Italy. In 2023, it started building 1.6GW of projects, mainly in Sardinia, after big ...



Redox recap: New flow battery JV in US, Japanese utility adds ...

...

A new joint venture (JV) aims to establish domestic vanadium electrolyte production for flow batteries, while a new Japanese redox flow project has been announced in ...

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