

# Italy energy storage projects 2025

Does Italy need a long-duration energy storage system?

Local industry contacts and U.S. companies in the sector have indicated to CS Italy a need for long-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 and a maximum capacity of about 4,000 MWh.

How many GWh of energy storage is needed in 2025?

To maintain grid stability, TERNA forecasts the need for 71 GWh of storage, equivalent to about 20 GW of capacity by 2030. The second edition of RENMAD Storage Italia (April 2-3, 2025) will bring together leading experts and industry leaders to discuss the evolving energy storage landscape, exploring both the opportunities and challenges ahead.

Could Italy's grid-scale battery storage market see a massive expansion?

Grid-scale battery storage | Cameron Murray writes about the nascent market for large-scale battery storage in Italy, which could see a massive expansion in the short term. Italy's grid-scale energy storage market: a sleeping dragon. Render of a co-located battery storage project in Italy from Innovo Group. Credit: Innovo Storage smart power

How many projects did EP Produzione win in the 2025 capacity market auction?

EP Produzione was awarded a total of five projects in the 2025 capacity market auction, each with a 15-year off-take contract. To continue reading, please visit our ESS News website. This content is protected by copyright and may not be reused.

Where will EP Produzione build a battery energy storage system?

EP Produzione will build 170 MW of battery energy storage systems with a two-hour storage duration at two sites. One project will be located at the company's Fiume Santo coal-fired power plant in Sardinia, originally set up in the 1960s.

The transaction will see through the construction, ownership and operation of a portfolio comprising 23 battery energy storage system (BESS) projects as well as three renovations of open cycle gas turbine (OCGT) plants totalling 0.9 GW. The deal is part of Enel's partnership business model outlined in its business plan for 2024-26. Enel has been a first ...

Now is the right time: Italy needs to build new energy storage systems with a capacity of at least 15 gigawatts by 2030 to meet the targets of the national energy strategy", says Giacchetti. In Italy, last spring, the KGAL ESPF 5 renewable energy fund successfully advanced its first asset from project development to grid connection.

All data and analysis in this article refers to the Republic of Ireland, and comes from our in-house market

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research at Solar Media, specifically our Republic of Ireland Battery Storage Project Database Report. Size of energy storage projects . With at least 720MWh of energy storage deployed - and 1GWh in construction - the growth of the ...

Tom Harries investigates Spain and Italy as emerging BESS markets. The IEA expects global installed energy storage capacity to expand to over 200 GW by 2030. 1 - equating to a 23% compound annual growth rate. 2 This rapid level of growth is more comparable to that of big tech in the 2010s than traditional classes of energy infrastructure assets. 3 In the EU, ...

The Generali Group company has signed an agreement to acquire a minority share of Enel Libra Flexsys, which aims to rollout 1.7 GW of battery energy storage projects in Italy. "Revenues are fully contracted for 15 years through capacity agreements with Enel as well as capacity payments from Enel that are backed by Terna, Italy's transmission system ...

Italy's latest capacity market auction has catalyzed 233 MW of new capacity with the lion's share of projects secured by EP Produzione across two battery storage developments.

Italy's National Energy and Climate Plan (NECP) includes specific targets for storage technologies Italy's storage targets Italy's target for the share of renewable electricity by 2030 55% Utility-scale 3-4 GW Customer-sited 4.5 GW Italy's NECP targets between 7.5 GW and 8.5 GW of energy storage by 2030, of which 4.5 GW is expected

Following the launch of the first round of energy storage project bidding in 2023, Greece announced the winning list of the second round of energy storage project bidding in February this year, which included 11 BESS projects with a total scale of nearly 300 MW. These projects are required to be put into operation no later than December 31, 2025.

Specifically, Italy plans to eliminate coal by 2025 and to bring renewables' share of final gross electricity production to 72% by 2030 and 95-100% by 2050. ... joint effort from the national and local governments and authorities will lead to the authorization of more renewable energy projects. This is needed due to the conflict in the ...

Fill out the form to be the first to receive all the details about RENMAD Storage Italy 2025, including webinars, agendas, speaker line-ups, and exclusive discounts. ... Unlock different investment opportunities by making your energy storage projects financially viable, with a focus on securing long-term funding ...

Terna has until March 31, 2025, to submit a proposal to the ministry to amend energy market regulations to enable hydroelectric energy storage to be part of the procurement program. From pv magazine Italia articles about the decree and its detail.

Energy Vault Holdings, a developer of sustainable grid-scale energy storage solutions, and Carbosulcis, a coal

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mining company owned by the Autonomous Region of Sardinia, Italy, plan to develop a 100 MW hybrid gravity energy storage system (GESS) for underground mines, pairing their modular gravity storage and batteries.

They added that the projects are expected to reach ready-to-build (RTB) stage in early 2025. Developers Energy-Storage.news interviewed for a recent feature on Italy's burgeoning grid-scale energy storage market for Solar Media's quarterly journal PV Tech Power suggested durations would be around 4-5 hours, potentially up to 8.

Welcome to the Renewable Energy Conference (GRCREN - 2025), set to take place from June 25 to 27, 2025, in the historic city of Rome, Italy. Conference Theme: "Renewable Energy: Shaping a Sustainable Future" At the Renewable Energy Summit, we are dedicated to exploring practical solutions and strategies to maximize the accessibility and ...

2 #0183; Pumped storage: Planning for 1.5 GW in Scotland, new alliance for 500 MW in Italy, progress on 600 MW Scottish project Scottish energy storage company ILI Group has lodged plans for a major pumped hydro facility at a famous Scottish loch. Meanwhile, renewable energy developer Drax has appointed engineering firm Voith Hydro to move forward its ...

The Whole European Value Chain. This is an event where you are guaranteed to meet over 2000 delegates from across Europe's energy storage value chain.. With 44 countries represented in 2024, the Summit brings together investors, developers, IPPs, banks, government and policy-makers, TSOs and DSOs, EPCs, optimisers, manufacturers, data and analytics providers, ...

It recognises the pivotal role of BESS and Pumped Hydro Storage (PHS) in Italy's energy future given what is set to be a very high penetration of intermittent solar capacity. While there is broad enthusiasm for MACSE and electricity storage investments in Italy, some industry participants are expressing concerns over the perceived "over ...

HYPE - Hydrogen Power Expo. At KEY 2025 for the first time much more than just an area dedicated to hydrogen and projects for its production and storage: a real Exhibition with the new name HYPE - Hydrogen Power Expo supported by Hydrogen & Fuel Cells, jointly organised by the Italian Exhibition Group and Hannover Fairs International GmbH (HFI), the Italian branch ...

Spain-based Powertis partnered with German investment firm Aquila Capital to co-develop 421MW solar PV and 90MW energy storage projects in Italy in January 2022 (PV Tech, 2022). ... Coal-based generation capacity in Italy is scheduled to be retired in 2025. It is estimated that 3GW of new gas generation capacity and 3GW of new energy storage ...

In November, Altea Green Power began construction of a 1GW battery energy storage system project in Italy, called "Black Bess". The project, which will consist of four sites located in central-southern Italy, will be

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completed by the first half of 2024. ... The projects will begin their 35-year operating life in late 2025. Key figure: Scott ...

Italy's energy system has changed notably since 2010 and today the country's energy mix includes more natural gas and renewable energies and less coal and oil. ... Italy is committed to phasing out the dependence of Russian gas by 2025. Over the last decade, Italy has diversified its gas supply routes and sources and increased the flows ...

Italy has set its objectives in the energy national plan (PNIEC) pushing to a high integration of the renewable power generation (55% of renewable share in the electric sector by 2030).. In the generation mix, an increment of renewable installed capacity by 2030 of around 40 GW with respect to today is expected, mainly consisting of wind and photovoltaic plants, in parallel with ...

Energy-Storage.news provided a detailed look at where winning projects were located within Spain in our coverage of the auction results. Some 186MWh of the energy storage projects awarded funding are located in the Canary Islands. Iberdrola didn't reveal which company would provide the lithium-ion BESS units for the six projects.

The market in Italy is currently gearing up to launch construction on projects, with some players waiting for the rules around large-scale storage auctions by TSO Terna to be finalised, expected late this year. Energy-Storage.news did a deep dive into the Italian market for the most recent edition of PV Tech Power (Vol.35).

"We remain on track with our energy storage growth targets, with plans to bring online two additional assets in 2023 and make further progress towards achieving between 500 to 530MW and over 1GWh in total capacity by the end of 2025," Blachar said following the announcement of the New Jersey and Texas projects coming online.

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