

# Italian energy storage project

What's going on with battery energy storage in Italy?

Since it went to press, regulators in Italy approved new auction rules for grid-scale storage and gave the green light to a 200MW/800MWh battery energy storage system (BESS) project from UK developer Aura Power, while Eni Plenitude brought a 15MW BESS online.

How many battery energy storage systems does Enel Green Power have in Italy?

To date, Enel Green Power has three battery energy storage systems in operation in Italy, with a total capacity of 133 MW. And the prospects for growth are excellent: at the Capacity Market 2024 auction, we were awarded another 19 systems with a total capacity of about 1.6 GW.

Is there a real energy transition in Italy?

There can be no real energy transition in Italy without electricity storage systems. And here Enel Green Power is also playing a leading role, particularly in battery energy storage systems (BESS), which are increasingly efficient and competitive, thanks to technological innovation.

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

Does Italy need 9GW/71GWh of energy storage?

Italy's TSO Terna says it needs 9GW/71GWh of energy storage to integrate its renewables pipeline. Image: Terna. 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.

What is the EU state aid scheme for energy storage in Italy?

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 payments covering investment and operating costs for those developing, building and operating large-scale energy storage in Italy.

The developer for all projects will be an undisclosed Italian developer specialising in battery storage systems. The project will use Alfen's The Battery Elements battery storage system built in a modular design, capable of storing 41MWh of energy. Construction on the first projects in the portfolio is planned to begin in Q4 2026.

But, many more are coming, as Energy-Storage.news explored in a special feature for Vol.35 of PV Tech Power, Solar Media's quarterly technical journal for the downstream solar and storage industries. While the

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first half was one of growth, the second quarter saw the first sequential fall in deployments in nine quarters.

Italian Energy Storage. In order to meet the European Union's energy and climate greenhouse gas emissions targets by 2030, EU countries need to establish a 10-year integrated national energy and climate plan to cover the period between 2021 and 2030. ... a declaration with a detailed report signed by a qualified project manager and with the ...

The European Commission has approved a EUR17.7 billion (\$19.5 billion) Italian scheme to support the construction and operation of a centralised electricity storage system to integrate renewable energy sources into the country's electricity system.

Sand-based energy storage was in the news recently with the inauguration of an 8MWh project in Finland that stores heated sand in a cylindrical tower to be used for district heating, through tech startup Polar Night Energy. Brenmiller to have thermal storage "gigafactory" this ...

The 111MW project in Lombardia and the 97MW project in Puglia have been submitted to the Italian Ministry of Energy for approval. ... ACL Energy is an independent energy infrastructure developer focused on utility-scale battery energy storage projects in Italy. The company is developing a sizeable and diversified pipeline totalling around 5GW ...

RomeFlex launches flexibility services in Italy's capital. The announcement is the latest to come from Italy, which Aurora Energy named as one of the top three markets for ...

Utility and IPP Enel has sold a 49% stake in its subsidiary that will own and operate 1.7GW of battery energy storage system (BESS) projects in Italy, to investor Sosteneo. Sosteneo will take a 49% stake in Enel Libra Flexsys with parent company Enel Italia S.p.A holding the remaining 51%, retaining control over the company. The deal, which ...

Last week, UK battery storage developer Field announced it would enter Italy, while Innovo Group and Aquila Capital made similar moves last year. The residential energy storage market in Italy is already very strong, with the second-highest (321MWh) deployments in 2022 after Germany according to figures from trade body SolarPower Europe. This ...

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. Firstly, the decline in subsidies under the Superbonus policy has resulted in reduced purchasing power among Italian residents, dampening the outlook for ...

The companies revealed the deal in an Italian stock exchange announcement this morning (11 January), though it did not provide much detail about the acquired project, which would be one of the largest projects in the state. The largest operational system is a 260MW/260MWh one from utility Vistra.. Redelfi and Altea are

both listed on the Euronext ...

Iberdrola seals 12-MW solar PPA with Italian steelmaker ... Energy Storage: Emeren teams up with Arpinge on 300-MW Italian battery portfolio 12:01 / 04 November 2024 Energy/Utilities ... EU allocates EUR 4.8bn among 85 innovative net-zero projects 17:12 / 18 October 2024 Renewable Energy: Weekly renewables M&A round-up (Oct 14-Oct 18) ...

Rome - July 4, 2023 - Matrix Renewables ("Matrix"), the TPG Rise-backed global renewable energy platform, today announced that it has started a partnership with Gravel A through a ...

As reported by Energy-Storage.news in December 2020 after tender results were announced, the Fast Reserve bi-directional service sees power go onto the grid or be drawn from it to balance the supply and demand of electricity.. Helping to maintain the network's stable operation within boundaries of operating frequency limits, service providers need to be able to ...

Italy's grid operator, Terna, has awarded around 250 MW of capacity in its energy storage auction, held last week. The auction is part of the company's Fast Reserve pilot project, dedicated to the ...

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 ...

Following the 70MW being delivered by NHOA Energy in the context of the Fast Reserve Units, the award of this project confirms NHOA Energy's capability to design systems able to provide all the different energy storage services in the Italian market and paves the road for additional deployments in sight of the future storage auctions to reach the 2030 ...

Located in Avetrana in the Province of Taranto, Italy, Torre di Pierri is a 9.3 MWh standalone system that supports grid stability and arbitrage. Trina Storage was contracted by Trinasolar ISBU for the provision of the battery energy storage system, representing the first time the former has delivered a utility-scale energy storage project in ...

Axpo acquires 20MW/20MWh battery energy storage project from RES and SCR, due to become operational in 2024. RES to deliver construction management, asset management and O& M services and applies its proprietary RESolve system First energy large-scale storage project for Landskrona Energi London, 10 March, 2023 - Global renewable energy ...

The project will test a new long-duration storage concept pioneered by Italian startup Energy Dome that involves using compressed carbon dioxide to drive an otherwise conventional turbine. The ...

This latest move in energy storage for Nuveen Infrastructure comes after their entry into the market in 2023 with the announcement of the construction of a 30 MW BESS project in Finland. This project will use Alfen's



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top of the line The Battery Elements battery storage system built in a modular design, and capable of storing 41 MWh of energy.

Glennmont Partners from Nuveen ("Glennmont"), one of the world's largest fund managers investing in clean energy, and Exus Renewables ("Exus"), independent renewables asset management and development firm, have agreed to co-develop c.800MW of battery storage projects in southern Italy, with each company co-developing a portfolio of c.400MW of projects.

Final approval has been granted for construction on our 200MW / 800MWh battery energy storage system just outside of Maddaloni, Italy. ... We have been working on an Italian BESS pipeline in excess of 1GW and the Maddaloni project is the first to achieve Ready-to-build status ... Aura Power has over 20GW of solar and battery energy storage ...

The grid-scale Italian energy storage market has been kickstarted from two different directions. The first was big wins for battery storage projects in ancillary service and capacity market ...

ACL Energy has recently announced a joint venture partnership with large-scale operator BW ESS and Penso Power, a London-based developer of grid-scale battery storage assets, for developing storage projects in Italy.

Enel Green Power will start building 1.6GW of battery storage projects in Italy this quarter, with the country's utility-scale market expected to soar in the next three years. ...

The battery project acquisition marks a big step up for Eni New Energy US. The only operational battery project in its portfolio so far is a 6.6MWh system in Massachusetts. That project was acquired from another Italian company, Falck Renewables, with which Eni New Energy US formed a joint renewable energy and storage development platform in ...

To maintain grid stability, Terna forecasts the need for 71GWh of storage, equivalent to about 20GW 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 ...

Enel Libra Flexsys is set to manage a portfolio of energy transition projects in Italy, comprising 23 battery energy storage system (BESS) projects with a total capacity of 1.7GW and three open-cycle gas turbine (OCGT) projects with a total capacity of 0.9GW.

Rome - July 4, 2023 - Matrix Renewables ("Matrix"), the TPG Rise-backed global renewable energy platform, today announced that it has started a partnership with Gravel A through a proprietary Development Service Agreement (DSA) for the development of up to 1.5 GW of standalone Battery Energy Storage Systems (BESS) in Italy. The first stage of this partnership ...



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Transmission system operator (TSO) Terna estimates Italy will need 9GW/71GWh of new energy storage to integrate its growing renewables pipeline, an average duration of just under 8 hours. That duration will be split between battery energy storage system (BESS) and select pumped hydro energy storage (PHES) projects, though even on the BESS ...

Italian startup Energy Dome has launched the first demonstrator project of its carbon dioxide-based energy storage solution, a 4MWh system in Sardinia, Italy, while also revealing Series B plans. The 2.5MW/4MWh CO2 Battery facility is now fully operational after an initial phase of operations to test its performance.

Italian transmission grid operator Terna said the Italian energy sector generated record-breaking volumes of both solar PV and wind power in 2023, producing 30.6TWh and 23.4TWh of electricity ...

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