

# INVESTMENT SCALE OF ENERGY STORAGE POWER STATION IN NORTHERN ITALY



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.



How will Italy develop utility-scale electricity storage facilities? To develop utility-scale electricity storage facilities, the Italian Government set up a scheme that was approved by the European Commission at the end of 2023. 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.



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.



How much will Italy's energy storage program cost in 2023? In December 2023, the EU greenlit Italy's energy storage program, earmarking a hefty investment of 17.7 billion. This initiative is anticipated to facilitate the construction of over 9GW/71GWh of energy storage systems (ESS).



Does Italy need electricity storage? As Italy's energy mix is increasingly composed of variable renewable energy sources, electricity storage will be needed to integrate power generated by renewables into the national grid and make it available when sun and wind energy are not accessible.

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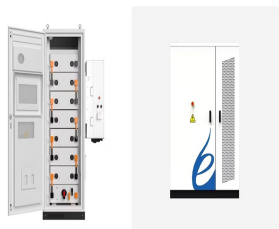
What is Italy's energy storage structure? Italy's energy storage structure is also dominated by residential storage, which accounts for more than 80% of new installations. In December 2023, the EU greenlit Italy's energy storage program, earmarking a hefty investment of €17.7 billion.



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 €17.7 billion (US\$19.5 billion) will provide annual €???



Figure: SGIP's Installed Capacity of Energy Storage in California (MW/MWh) U.S. Energy Storage The installed capacity of energy storage in the first quarter of 2023 surged to an impressive 792.3 MW/2144.5 MWh



The Italian transmission network consists of power stations with voltages of 150 kV, 220 kV and 400 kV with a total line length of 74 711 km. Storage . Italy has an increasing electricity storage capacity, mainly consisting of pumped storage



Towards the end of 2023, power company Suomen Voima, which already owns five hydropower plants in Norway, announced its intention to develop a new energy storage project: Noste, in Northern Finland. They will invest €1.2 billion

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Mark Saunders, Co-Head of Energy Storage, spent three years at Goldman Sachs Renewable Power Group, led the formulation of an investment strategy for stand-alone storage assets and executed on ~255MW of energy ???



The hybrid energy storage system will be deployed in 500-meter-deep mine shafts at a former coal mine. In another development, Renewable Power Capital and Altea Green Power had entered into a partnership to ???



: Europe is on the brink of a significant surge in grid-scale battery energy storage with a sevenfold increase in capacity projected by 2030, according to analysis published on February 13 by Aurora Energy Research. ???

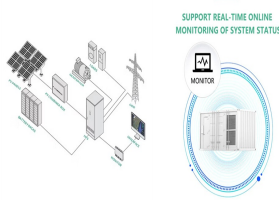


Europe's utility-scale energy storage installations are primarily propelled by market dynamics, with power stations generating revenue mainly through auxiliary services and peak ???

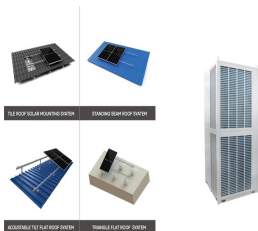


A total of 71GWh of new grid-scale energy storage needs to be deployed in Italy by 2030 for it to decarbonise its energy system in line with the EU targets. The report is a deep-dive into the suitability of different ???

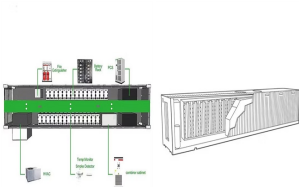
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A render of a battery storage project from Innovo Group, which has teamed up with Iberdrola to deploy large-scale solar, wind and storage in Italy. Image: Innovo Group. The grid-scale energy storage market in Italy is set to ???



Italy's Anie said the boost for small-scale energy storage systems provided by the country's renovation "superbonus" is over. The tax credit, which initially offered a 110% rebate for the cost of qualifying energy efficiency ???



This research gains significance due to the diverse energy generation mix among EU countries, with Italy heavily relying on gas-fired plants and, to a lesser extent, on coal and ???



Be part of this gathering of 200 innovative executives, as they discuss strategies to develop, finance, build, and operate profitable utility-scale storage projects in Italy. Join us to explore a fast-growing market and learn how your investments ???



Italy is the most interesting European battery market, followed by Great Britain and Germany, according to a report released earlier this week by UK-based analyst Aurora Energy Research which examined 28 European ???

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Research firm LCP Delta recently forecast that after annual grid-scale deployments of just 20MW in the last few years, Italy would deploy 800-900MW in 2023/2024, second in scale only to the UK. In this piece, we ???



Aurora estimates European batteries could constitute a EUR 100 billion (\$105 billion) investment opportunity through 2050, including repowering projects, which involve upgrading existing energy generation and storage ???



The panel discussion on Day 1 of the Energy Storage Summit EU in London last week. Image: Solar Media. Italy's grid-scale energy storage market opportunities are unlike anywhere else, but many challenges and uncertainties ???



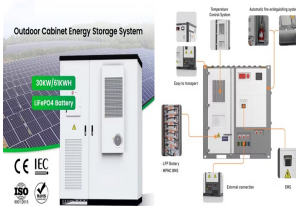
Enel said that special attention is being paid to the end-of-life for those cells, highlighting its recent commissioning of a 4MW/1.7MWh second life system using EV batteries on the north coast of Africa. The grid-scale energy ???



Fluence Energy, a U.S.-based company, has introduced its latest grid-scale battery energy storage system (BESS) called Smartstack. This innovative platform offers 7.5 MWh of energy storage and features a modular design that ???



New Aurora Energy Research report details Italy's path to 72 GWh energy storage capacity by 2030. ROME, ITALY (AURORA ENERGY RESEARCH)???A new report published by Aurora Energy Research, the global ???



The renewable unit of energy group Enel has started up a solar plant with an installed capacity of around 87 megawatt (MW), making it the biggest in northern Italy, the company said on Tuesday.