

# Expected ROI of lithium ion storage project in Italy 2030

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.

Does Italy need a new energy storage system?

Italy and its nearby major islands. Italy's National Energy and Climate Plan (NECP) policy, which brings the country in line with European Union climate and clean energy targets for 2030, calls for around 40GW of renewable energy capacity and some experts have said this would require at least 5GW of new energy storage to support

Does Italy have a battery energy storage system?

Italy's grid in Italy. Image: Terna. Battery energy storage system (BESS) capacity in Italy reached 587MW/1,227MWh in the first three months of 2022, of which 977MWh is distributed energy storage, according to the national renewable association, ANIE Rinnovabili. In December 2023, the EU greenlit Italy's energy storage program, earmarking a hefty

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.

Are battery storage projects a good investment?

Battery storage projects have a wealth of opportunities to target, from ancillary services to capacity markets to energy trading, and developers are now positioning projects to best take advantage of these. The grid-scale energy storage market in Italy is set to become one of the most active in Europe having been close to non-existent until now.

Will a BESS project use lithium-ion technology?

Despite the quicker move to medium or longer discharge durations, all interviewees say that initial projects would use lithium-ion technology. Girolami highlights Fluence, the largest battery storage system integrator in the world, as a potential big player in providing BESS technology for projects in Italy.



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