

How is Bess used in Italy?

How BESS are used Currently, the main possible sources of revenues for BESS in Italy are the following: specific auctions and the capacity market (BESS facilities participated in the 2022, 2023 and 2024 capacity market auctions).

When will a Bess plant be built in Italy?

Between April and June 2023, we started the construction of new BESS plants in several Italian regions, with a total capacity of 1.6 GW expected by the end of 2024. Many of these plants are located on the sites of old thermal power plants, and this is a virtuous example of the circular economy. Nor does innovation stop here.

How long will Bess projects take in Italy?

By 2026, in Italy, we aim to reach 5.5GW by making available all our engineering know-how gained over the years, thus consolidating our role as a reference player". BESS projects in Italy are likely to have a 4-5 hour duration as most of their activity will be energy-intensive activities like load shifting or capacity market provision.

Why are battery energy storage systems not being developed in Italy?

The development of Battery Energy Storage Systems (hereinafter "BESS") in Italy has been limited by the fact that the spread of renewable sources is not such as to produce significant price differences during the hours of the day yet. An unfavourable legal and regulatory framework has also contributed to the low diffusion of BESS.

Which Bess companies are coming to Italy?

Girolami also highlights the China-based BESS providers Sungrow, Huawei and CATL. Last year, competitor Nidec ASI announced orders from Italy of 1.35GW/5.4GWh by an unnamed company. Interestingly, the details and timeline closely match up with the projects being deployed by Enel.

Should Bess be a stand-alone energy source?

One aspect is important to highlight: although stand-alone BESS will be immediately adjacent to renewable energy plants (preferably in the same area), the energy fed into the grid by standalone BESS will not benefit from guarantees of origin or be considered green. c) Renewable Energy Communities (CERs) and collective self-consumption.

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The four sites in central-southern Italy are being called the "Black BESS" project and will be completed by the first half of 2024. Alongside three other groups of projects, called Green, Blue and Yellow BESS, the project will contribute to Altea Green Power's 2GW BESS portfolio in Italy.

System operator backed tenders could see Italy deploying BESS capacity faster than all other European markets across the next 5 years. As the new Italian mechanism becomes a reality, with first tenders likely in Dec 2024, we take ...

BESS investment model structures in Italy. We discuss the challenges facing investors as they look to build bankable BESS investment cases via (i) MACSE and (ii) ...

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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 an average capacity of less than 20 kWh.

Featuring a built-in AI-driven Energy Management System (EMS), our BESS optimizes auto-consumption and facilitates trading on the energy market. By intelligently buying and selling energy at the best prices, these systems maximize financial returns and ensure efficient energy use, turning energy storage into a strategic economic advantage.

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The new tender mechanism is likely to replace the Italian capacity market (the main support mechanism to date) as the primary source of BESS support; Investment in merchant BESS capacity is set to be more focused in the north of Italy or as merchant tranches of projects covered under long term contracts in the South and Islands.

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BESS investment model structures in Italy. We discuss the challenges facing investors as they look to build bankable BESS investment cases via (i) MACSE and (ii) Capacity Market routes, including: 4 key BESS investment models; Targeting risk/return profiles; The importance of merchant tranches to support a viable return

Matrix Renewables, a TPG Rise-backed global renewable energy platform, 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 ...

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