

# Italy develops new energy storage projects

How will Italy support energy storage?

Italy is one of Europe's fastest growing energy storage markets and recently introduced mechanisms to support this nascent sector. To meet its decarbonisation goals, it set out the need to build 9 GW of new grid-scale energy storage and upped its renewables targets with the aim of having 65% of electricity from green energy by 2030\*.

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.

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.

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.

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.

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.

Installations of new renewable energy plants in Italy almost doubled from 2022 to 2023, from 3 to about 6 GW, mostly in the photovoltaic sector. ... 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 ...

Eni New Energy US has bought a large-scale battery storage project in development in Texas from developer

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Baywa r.e., along with a utility-scale solar PV plant nearby. The 200MW/400MWh battery energy storage system (BESS) project is at a late stage of development and scheduled to go into operation before the end of next year.

Cubico Sustainable Investments has formed a joint venture (JV) with a local developer in Italy to develop 1GW-plus of battery energy storage system (BESS) projects. London-headquartered independent power producer (IPP) Cubico has entered into a JV with local developer and consultancy Storatil, with an initial four projects totalling 150MW ...

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 ...

The development of the energy storage market in Italy has diverged from that of its British or German counterparts. ... 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). ... It is estimated that 3GW of new gas ...

A total of 311 applications were received for clean energy or decarbonisation projects after the call for submissions opened last summer. Of these, seven were selected to receive direct funding from a EUR1.1 billion budget and include hydrogen, carbon capture and storage, advanced solar cell manufacturing and other technologies.

However, it added the figures may change: "The actual needs for new storage capacity (GWh) to be procured by the new mechanism will have to be re-evaluated over time, taking into account the actual development and geographical location of renewable energy sources in Italy." The TSO said that energy storage will provide time-shifting and ...

Emeren Group Ltd (&quot;Emeren&quot; or the &quot;Company&quot;) () (NYSE: SOL), a leading global solar project developer, owner, and operator, today announced a co-development agreement with Arpinge, a ...

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.

MILAN, July 10 (Reuters) - Edison, opens new tab and Webuild, opens new tab have signed an industrial partnership to develop hydroelectric storage projects, the Italian utility and the ...



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Enel is active in BESS globally, with a portfolio that includes the Azure Sky solar and storage project in Texas (pictured). Image: Enel Green Power . 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.

The energy storage market in Italy doubled in capacity in the first half of the year, though Q2 saw the first slowdown in nine quarters and that could be repeated in H2, according to the country's renewable energy trade body. ... Capacity market (CM) auctions have concluded in Italy and Belgium and battery energy storage system (BESS) ...

Telis Energy, a European renewables development platform backed by private equity major Carlyle (), has set foot in the Italian market by launching a local unit that will seek to develop 3 GW of battery storage and hybrid renewable energy projects. Telis Energy Italy, as the new subsidiary is called, will focus on the development of solar and other renewable energy ...

The new investment commitments total EUR60 million (US\$65.37 million) and will be used towards Energy Dome's first 10-hour duration commercial project, which will be 20MW output with 200MWh storage capacity in Sardinia, Italy.

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

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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