

# Italy releases energy storage plan

Does Italy need 9gw/71gwh of energy storage?

Italy's TSO Terna says it needs 9GW/71GWh of energy storage by 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 Italy's state aid scheme?

REUTERS/Yara Nardi/File Photo Purchase Licensing Rights BRUSSELS, Dec 21 (Reuters) - The European Commission on Thursday said it had approved a 17.7 billion-euro (\$19.4 billion) Italian state aid scheme to support the development of a centralised system to store electricity from renewable sources.

How has Italy's energy system changed since 2010?

Italy's energy system has changed notably since 2010 and today the country's energy mix includes more natural gas and renewable energies and less coal and oil.

Does Italy have a target for reducing oil consumption?

However, Italy does not have specific targets for reducing oil consumption. In 2022, the government introduced a discount on the excise duty of gasoline and diesel to mitigate the impact of rising fuel prices on consumers caused by Russia's invasion of Ukraine.

Does Italy need a smart grid?

Italy has already made substantial progress in the development and deployment of system flexibility and smart grid solutions, including the installation of smart meters, but a higher penetration of renewables will require greater transmission, distribution and storage capacity.

Why does Italy need liquefied natural gas?

Over the last decade, Italy has diversified its gas supply routes and sources and increased the flows through the existing liquefied natural gas (LNG) and pipeline import infrastructure. This now helps ease the country's high dependence on Russian gas, which was reduced to around 3% of total gas imports by November 2022.

Energy storage systems play a crucial role in Italy's decarbonisation and energy security. On 21 January 2020, the Ministry of Economic Development published the Integrated National Energy and Climate Plan, setting targets for energy efficiency, development of renewable sources, and CO2 emissions reduction.

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. 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 ...



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STAMFORD, Conn., Nov. 9, 2023 /PRNewswire/ -- Emeren Group Ltd (&quot;Emeren&quot; or the &quot;Company&quot;) () (NYSE: SOL), a leading global solar project developer, owner, and operator, today announced the successful sale of a state-of-the-art portfolio comprising five Battery Energy Storage Systems (BESS) in Italy to Matrix Renewables (&quot;Matrix&quot;). This ...

The owner of the project is Trinasolar's International System Business Unit (ISBU), its global project development. The standalone BESS will support grid stability and also do wholesale energy trading. The project has a contract with Italian transmission system operator (TSO) Terna to provide the Fast Reserve ancillary service for 1,000 annual operation hours, ...

STAMFORD, Conn., Dec. 29, 2023 /PRNewswire/ -- Emeren Group Ltd (&quot;Emeren&quot; or the &quot;Company&quot;) () (NYSE: SOL), a leading global solar project developer, owner, and operator, today announced the successful sale of additional two Battery Energy Storage Systems (&quot;BESS&quot;) in Italy to Matrix Renewables (&quot;Matrix&quot;). This transaction demonstrates the ...

Italy's energy future gets a 1.1 GW boost! ... RPC and Altea Joint Venture to Develop 1 GW Battery Energy Storage Facility in Italy. Last Updated on 26 th March 2024 Renewable ... or when renewable sources aren't producing (cloudy days or calm winds), the BESS releases the stored energy back into the grid, helping to maintain a stable and ...

Energy Vault Holdings, a grid-scale energy storage solution provider, and by the Autonomous Region of Sardinia-owned coal mining company Carbosulcis are set to develop a 100MW Hybrid Gravity Energy Storage System. This solution, designed by Energy Vault for underground mines, combines their modular gravity storage technology with batteries.

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