

ITALIAN SOYING ENERGY STORAGE



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.



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 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.



Could Italy's grid-scale battery storage market see a massive expansion? Grid-scale battery storage |Cameron Murray writes about the nascent market for large-scale battery storage in Italy, which could see a massive expansion in the short term. Italy's grid-scale energy storage market: a sleeping dragon Render of a co-located battery storage project in Italy from Innovo Group. Credit: Innovo Storage smart power



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.

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Does Italy have a national energy and Climate Plan? To meet the European Union (EU)'s energy and climate greenhouse gas emissions targets by 2030, EU countries need to establish a 10-year integrated national energy and climate plan between 2021 and 2030. Italy has one in place called PNIEC.



ENERGY S.p.A.: leader in Italy in integrated energy storage systems
Energy S.p.A., founded in 2013 by Davide Tinazzi, Andrea Taffurelli and Massimiliano Ghirlanda is a successful Italian company offering energy storage systems (ESS, Energy Storage System), for residential and, to a greater extent, commercial and industrial uses.



In addition, electricity storage is critical to avoid congestion in the power grid since most of the renewable production originates in Southern Italy but is consumed mostly in the north. Therefore, PNIEC also provides for the installation of new energy storage infrastructure with the aim of reaching 22.5 GW of installed storage capacity by 2030.



Italian energy storage company NHOA is under government scrutiny after its leading shareholder Taiwan Cement Corp (TCC) announced a buyout offer to take the Paris-listed company private, two



Consultancy Clean Horizon contacted Energy-Storage.news to offer its take and breakdown of the results. Head analyst Corentin Baschet said the weighted average price was a?€29,500 (US\$35,814) / MW / year across the three tranches of awards and most of the awarded projects are expected to be batteries.



The grid-scale Italian energy storage market has been kickstarted from two different directions. The first was big wins for battery storage projects in ancillary service and capacity market a?|

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La vasta gamma dei sistemi di accumulo "all in one" Energy Storage puo soddisfare le esigenze per la seguente tipologia di impianti: a?c nuovi impianti - Energy Storage Hybrid monofase 3Kw, 4Kw, 5Kw e 6Kw a?c nuovi impianti - Energy Storage Hybrid trifase 5Kw, 8Kw e 10Kw a?c impianti esistenti - Energy Storage Retrofit lato AC 3Kw, 4Kw e 5Kw mono



The new market rules will allow grid operator Terna to run large-scale energy storage auctions. Terna will now run a consultation with the industry on the proposed new auction system and the first auctions should take place in late 2023/early 2024, two developers interviewed for a special feature in PV Tech Power (Vol.35) (Premium access) recently told a?|



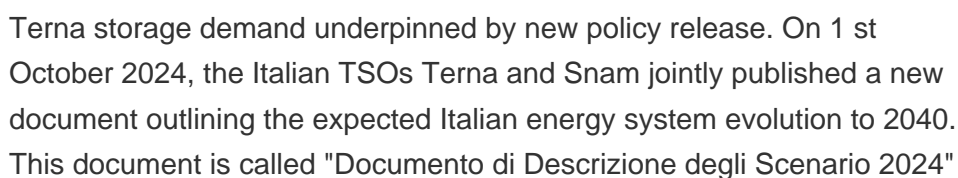
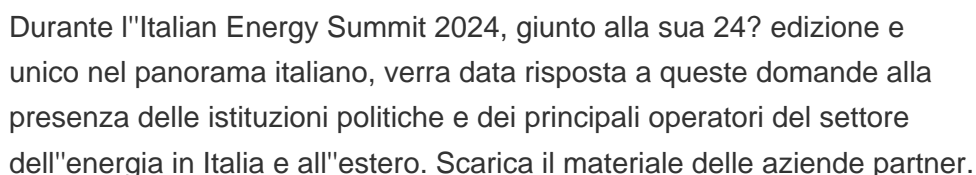
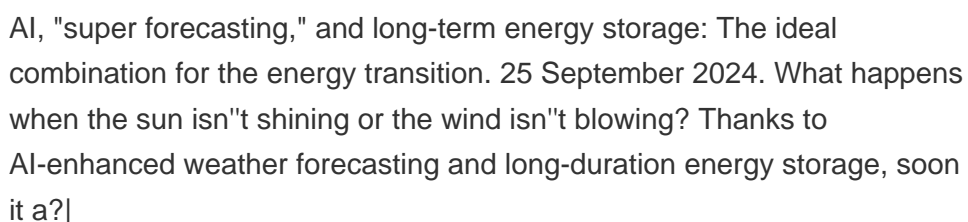
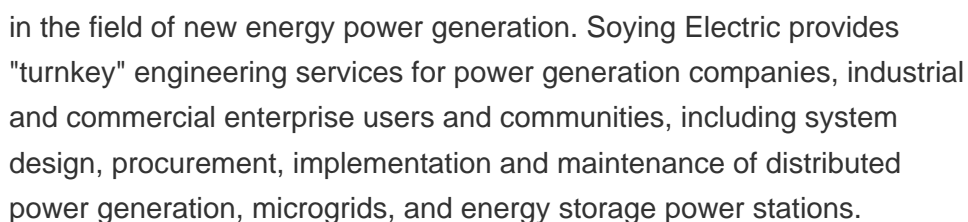
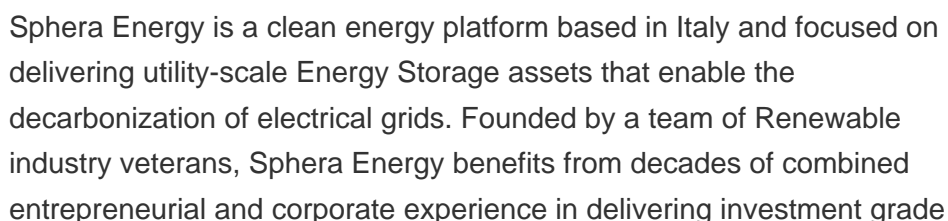
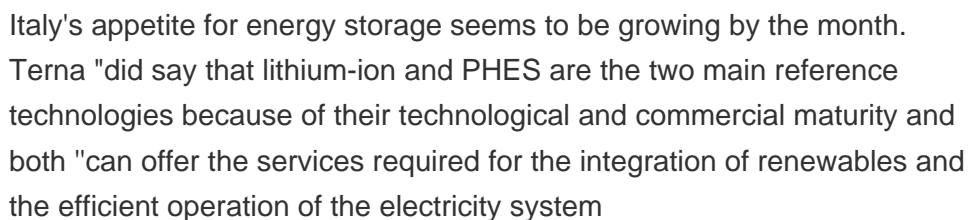
In December 2023, the EU greenlit Italy's energy storage program, earmarking a hefty investment of a?!17.7 billion. This initiative is anticipated to facilitate the construction of a?|



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



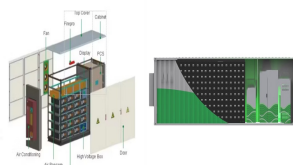
Policy changes in Italy are expected to have a significant impact on the European energy storage market, potentially leading to changes in local energy storage installations in 2024. Firstly, the decline in subsidies under the Superbonus policy has resulted in reduced purchasing power among Italian residents, dampening the outlook for



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(DDS2024) and represents an updated Italian TSO long-term view

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Italian Translation of "STORAGE" | The official Collins English-Italian Dictionary online. Data storage has become more energy efficient over recent years. The Guardian (2016) It is not a storage device. The Guardian (2018) Submit new words and phrases to the dictionary. Benefit from an increased character limit in our Translator tool.



F& F, the Italian newco for Energy Storage systems, has officially been launched. The company, 60% owned by FIB S.p.A and 40% by FRIEM S.p.A, will produce Battery Energy Storage Systems. These systems will be proposed on the global market to serve the power plants for energy production from renewable sources, for the stabilization of networks a?|



This is the second deep dive in our four-part series that explores why battery-based energy storage is key to addressing Southern Europe's grid flexibility challenges. This article delves into the intricacies of the Italian energy market and how the current high reliance on gas-fired power generation puts the country's decarbonization targets at risk and impacts a?|



The second edition of RENMAD Storage Italia (April 2-3, 2025) will bring together leading experts and industry leaders to discuss the evolving energy storage landscape, exploring both the opportunities and challenges ahead. Be part of this gathering of 300 innovative executives, as they discuss strategies to develop, finance, build, and operate

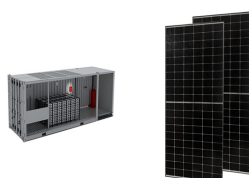


Storage in Italy: "private installations" (1) Source: elaboration of Italia Solare from Terna data at 30th June 2021 11 N. of storage systems connected (2021) Storage systems capacity [MWh] connected (2021) Storage systems power [MW] connected (2021) Storage systems capacity range [kWh] Number Storage systems Power [MW] Capacity [MWh]

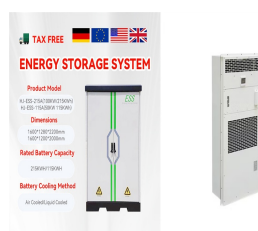
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Source: Australia Government a?? AusTrade 16 May 2023 Energy storage specialist NHOA Energy will play a vital role in helping Australia transition to net zero. The Italian company will be a part of a consortium delivering a 400MWh battery storage project near Blyth in South Australia. NHOA Energy will work with Spain's Elecnor to deliver storage for the Goyder a?|



As the European Union races to meet ambitious green goals, industry analysts say Energy Dome's technology could be one way to increase storage of intermittent wind and solar electricity so it is available when required. The Milan-based company's storage system is based on turning carbon dioxide (CO2) gas into a liquid and vice versa, which it says is cost a?|



Italian energy storage company, Energy Dome, has raised \$44 million in Series B round, totalling to \$60 million in all, while enabling its patented storage solution to commercially scale up globally. In June last year, the startup launched the first CO2 battery in the world saying that it can be used quickly around the globe. The battery

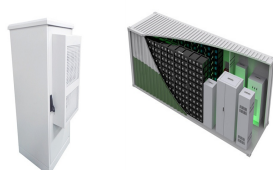


Chart 1 highlights Terna's view that most of Italy's new storage projects being delivered under the tender mechanism going forward, particularly in Southern Italy and the Islands (where renewable deployment is expected to be highest).



According to data released last week by Italian solar energy association Italia Solare, Italy's independent energy storage installations surged in the first half of 2024, with a connected capacity of approximately 650MW, almost 10 times that of the same period in 2023.

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It is not a bold statement to say that 2024 will be the year of Renewable Energy Communities in Italy. The introduction of Renewable Energy Communities into the Italian regulatory process dates back to "Milleproroghe" Decree 162/2019, (converted by Law No. 8/2020 of Feb. 28, 2020), which transposes the European RED II Directive (2018/2001/EU)..The a?|



Italian transmission system operator Terna has awarded MYTILINEOS S.A. a tender to develop 26MW of battery energy storage capacity. MYTILINEOS has been awarded two contracts for the development of two battery energy storage systems in Southern Italy, of which 20MW will be developed in Brindisi and 6MW in Sardinia.



Energy-Storage.news" publisher Solar Media will host the 9th annual Energy Storage Summit EU in London, 20-21 February 2024. This year it is moving to a larger venue, bringing together Europe's leading investors, policymakers, developers, utilities, energy buyers and service providers all in one place. Visit the official site for more info.