

# ITALIAN ENERGY STORAGE STANDS ON FIRE



Is there a real energy transition in Italy? There can be no real energy transition in Italy without electricity storage systems. And here Enel Green Power is also playing a leading role, particularly in battery energy storage systems (BESS), which are increasingly efficient and competitive, thanks to technological innovation.



What happened at a hydroelectric power plant in northern Italy? Three people have died and four are missing following an explosion at a hydroelectric power plant in northern Italy. The blast occurred underwater at the plant on Lake Suviana, 70km (43 miles) from the city of Bologna on Tuesday.



What happened at a sheet metal plant in Italy? It's a complicated situation, Luca Cari, a spokesman for Italy's firefighters, said. The explosion took place at a level of the plant that was underwater, and Mr. Cari said divers on Wednesday worked in conditions of zero visibility, as they searched among the rubble and debris of the explosion, moving sheet metal by hand with difficulty.



Why did the Italian fire brigades collapse? Italian Fire Brigades, via Associated Press The explosion on Tuesday caused part of the 10-story underground structure to collapse, flooding several levels, which restricted rescue efforts.



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).

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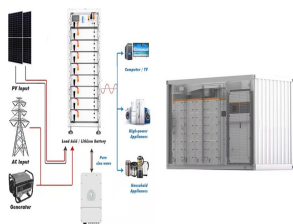
The results of Italy's main grid capacity market auction for 2025, published by Terna, show energy storage represented 51.1% of the 174 MW of new capacity assigned.. Thermoelectric plants made up the balance, with the new capacity secured for ???67,500 (\$72,900) per megawatt per year, for a total cost of ???11.75 million.



The developer for all projects will be an undisclosed Italian developer specialising in battery storage systems. The project will use Alfen's The Battery Elements battery storage system built in a modular design, capable of storing 41MWh of energy. Construction on the first projects in the portfolio is planned to begin in Q4 2026.



Israeli energy solution company Brenmiller Energy has taken that idea and run with it, resulting in its development of advanced, highly-efficient thermal energy storage (TES) units. This week, Brenmiller Energy announced that it has partnered with Italian energy company The Enel Group to implement a heat-based energy storage system in Enel's power plant in Santa Barbara, ???



While fires at energy storage facilities are exceedingly rare, Governor Hochul has directed the Division of Homeland Security and Emergency Services (DHSES) Office of Fire Prevention and Control, New York State Energy Research and Development Authority (NYSERDA), New York State Department of Environmental Conservation, Department of ???

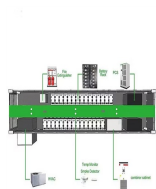


Cease Fire: Your Source for Advanced Fire Suppression Technology . At Cease Fire, we believe in creating powerful, advanced solutions that allow businesses and organizations to mitigate major fire-related risks and threats so they can focus on the things that truly matter. This includes fire suppression systems for battery energy storage systems.

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Suntech C54 module series obtains Italian Class 1 fire certification. By Suntech . February 25, 2024. Facebook Energy Storage Awards 2024. Solar Media Events. November 21, 2024. London, UK. About;



: To capture renewable energy gains, Africa must invest in battery storage. 11 Oct 2024: The crucial role of battery storage in Europe's energy grid. 8 Oct 2024: Germany could fall behind on battery research ??? industry and researchers. 4 Oct 2024: Large-scale battery storage in Germany set to increase five-fold within 2 years



We have been working on an Italian BESS pipeline in excess of 1GW and the Maddaloni project is the first to achieve Ready-to-build status ??? A grid connection from Terna was secured in June 2018 and the project was called up to the Regione by the Ministry of the Environment and Energy Security after the Conferenzi di Servizi was issued.



This partnership is Exus's maiden foray into the Italian energy-storage market. For Nuveen Infrastructure, "As Italy continues its renewable-energy transition, battery technology stands to play a hugely important role in supporting established clean-energy generators, through its ability to manage intermittency issues and associated



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 ???

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China is targeting for almost 100 GHW of lithium battery energy storage by 2027. Asia.Nikkei wrote recently about China's energy storage boom: By 2027, China is expected to have a total new energy storage capacity of 97 GW. New energy storage systems in China are largely based on lithium-ion battery technology, according to the



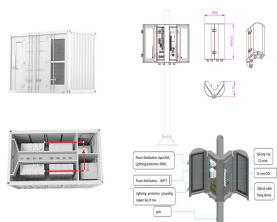
As consumers continue expanding use of the batteries and systems and sales of electrification increase for: electric vehicles (EVs), mobility devices, home energy storage systems (ESS), the fire service must continue to modify our tactics to ???



Last week, UK battery storage developer Field announced it would enter Italy, while Innovo Group and Aquila Capital made similar moves last year. The residential energy storage market in Italy is already very strong, with the second-highest (321MWh) deployments in 2022 after Germany according to figures from trade body SolarPower Europe. This



energies Review Large-Scale Electrochemical Energy Storage in High Voltage Grids: Overview of the Italian Experience Roberto Benato 1,\*, Gianluca Bruno 2, Francesco Palone 2, Rosario M. Polito 2 and Massimo Rebolini 2 1 Department of Industrial Engineering, University of Padova, 35100 Padova, Italy 2 Terna Rete Italia, 00156 Rome, Italy; gianluca.uno@terna (G.B.); ???



Search and rescue operations were still under way on Wednesday morning at a decades-old hydroelectric plant close to the northern Italian city of Bologna, after a devastating ???

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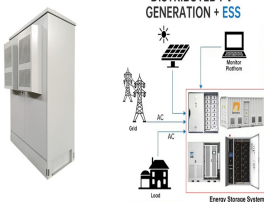


CEILING LIMIT. The maximum concentration of an airborne contaminant to which one may be exposed. The ceiling limits utilized are those published in DOL 29 CFR Part 1910.1000. The ceiling Recommended Exposure Limit (REL-C) concentrations published by the US National Institute for Occupational Safety and Health (NIOSH), Threshold Limit Value-Ceiling (TLV-C) ???

FLEXIBLE SETTING OF  
MULTIPLE WORKING MODES



Upon activation, the condensed aerosol forming compound transforms from a solid state into a rapidly expanding two-phased fire suppression agent; consisting of Potassium Carbonate solid particles  $K_2CO_3$  (the active agent) suspended in a carrier gas. When the condensed aerosol reaches and reacts with the flame, the Potassium radicals ( $K^*$ ) are formed mainly from the ???



The fire occurred when a battery storage unit caught fire, according to Terra-Gen, owner of the energy storage facility. The Valley Center Energy Storage Facility is a stand-alone 139 MW energy storage project located on a 7-acre property within a commercial-industrial zone. Homes and businesses within a quarter mile of the site were evacuated



PV & Energy Storage Market Opportunities in Italy: Overview and Future Scenarios Riccardo Sorichetti ???Italia Solare IBESA ITALIAN STORAGE DAY ???28th October 2021 . Index ??? Italia Solare ??? Ecological transition, who "sgot the ball? ??? Stand-alone installations (third party operator) 8 ???Users oriented applications



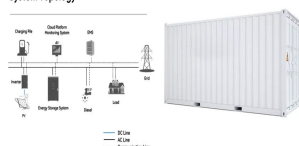
Legislative Decree 210/21 has introduced the MACSE, a new mechanism to efficiently integrate #renewables into the electrical system, especially during times of overgeneration allowing the system to acquire new storage capacity, fostering a more robust energy market ecosystem?????. In this context, #Terna rolls out a consultation for the electricity storage capacity procurement ???

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Last week, three different developers announced separate large-scale battery energy storage (BESS) projects collocated with solar farms in Chile.. Enel Chile, the local subsidiary of Italian energy company Enel, said it will deploy a 67 MW/134 MWh battery at the El Manzano solar power plant. The solar project with a capacity of 99 MW is located in the town of ???

System Topology



Witnesses have reported loud bangs, "multicoloured" flames and a plastic smell after a Tesla battery caught fire at one of Queensland's first large-scale renewable energy storage sites.



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 ???



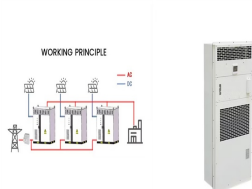
Italy's energy mix is increasingly composed of variable renewable energy sources. Electricity storage is needed to integrate renewables into the grid. many of these distributed energy storage systems are also already in place) and 11GW of stand-alone utility scale storage facilities (which need to be developed). To develop utility



A photograph released by Italian Fire Brigades on Tuesday shows the rescue operations inside the Enel Green Power hydroelectric plant. Credit Italian Fire Brigades, via ???



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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.



The International Association of Fire Fighters (IAFF), in partnership with UL Solutions and the Underwriters Laboratory's Fire Safety Research Institute, released "Considerations for Fire Service Response to Residential Battery Energy Storage System Incidents." PDF The report, based on 4 large-scale tests sponsored by the U.S. Department of ???



Glennmont Partners from Nuveen ("Glennmont"), one of the world's largest fund managers investing in clean energy, and Exus Renewables ("Exus"), independent renewables asset management and development firm, have agreed to co-develop c.800MW of battery storage projects in southern Italy, with each company co-developing a portfolio of c.400MW of projects.



Durante l'Italian Energy Summit 2024, giunto alla sua 24ª edizione e unico nel panorama italiano, verrà data risposta a queste domande alla presenza delle istituzioni politiche e dei principali operatori del settore dell'energia in Italia e all'estero. Scarica il materiale delle aziende partner.