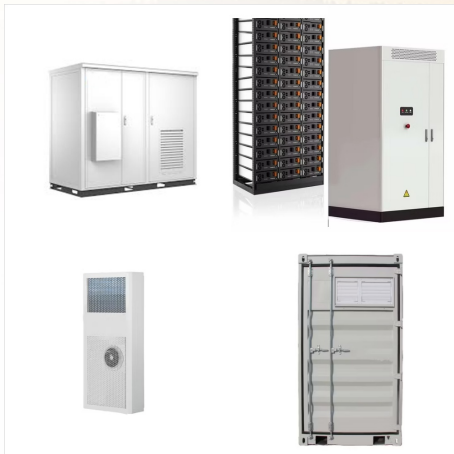
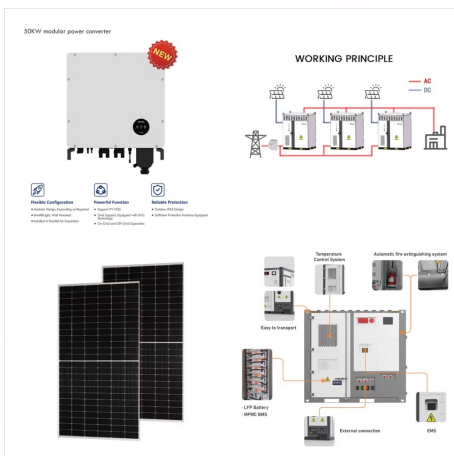


Toyota City, Japan, October 27, 2022???JERA Co., Inc. (JERA) and Toyota Motor Corporation (Toyota) announce the construction and launch of the world's first (as of writing, according to Toyota's investigations) large-capacity Sweep Energy Storage System. The system was built using batteries reclaimed from electrified vehicles (HEV, PHEV, BEV, FCEV) and is connected ???



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.



In response, JERA and Toyota began discussions in 2018 to establish battery reuse technologies, which eventually led to this large-capacity, grid-connected Sweep Energy Storage System. Toyota's new storage system is equipped with a function called sweep, which allows the use of reclaimed vehicle batteries, which have significant differences in

# ITALY SWEEP ENERGY STORAGE SYSTEM



Italy commissioned 1,468 MW/2,058 MWh of distributed energy storage systems linked to renewable power plants in the first half of 2023, data by national renewables association ANIE Rinnovabili shows. Italy had 386,039 energy storage systems totalling 3,045 MW/4,893 MWh in operation at the end of June, up from 1,530 MW/2,752 MWh at the end

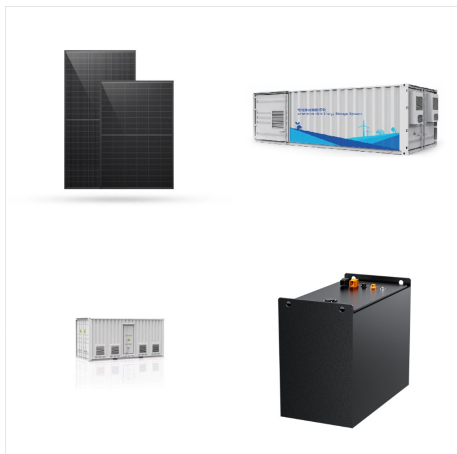


SAET has been a pioneer in the provision of energy storage solutions. Thanks to its strong expertise in grid and electrical systems, it was selected as early as 2012 as a supplier in the first Italian experimentations with storage systems for the electricity grid by ENEL and TERN. SAET presented itself as EPC Contractor for the supply of turnkey plants, or as a system integrator in



3 ? As of Sep. 30, 2024, Italy had a cumulative 692,386 energy storage systems, with a total rated power of 5,034 MW and an energy storage capacity of 11,388 MWh. Almost all of the systems ??? 92% ??? had a capacity of less than ???

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BESS, or battery energy storage systems, are an essential element of the energy transition: the Enel Group is playing an important role in the growth of the sector, in Italy and in the other countries where it is present. Media Enel Green Power is a key player in the growth of battery storage systems in Italy. 12 July 2024. Enel Green Power



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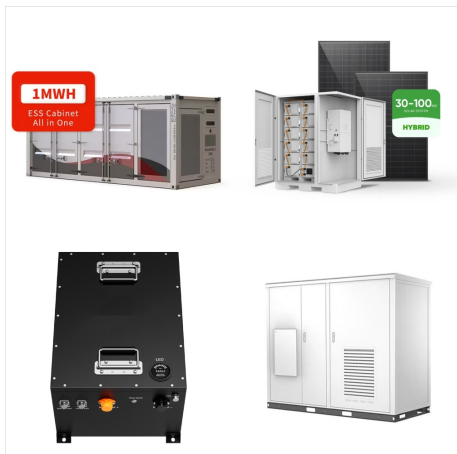


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# ITALY SWEEP ENERGY STORAGE SYSTEM



1027,JERA? 1/4 ?50:50? 1/4 ?Sweep Energy Storage System???,???



Italian grid operator Terna, in its monthly electricity demand update for November 2024, revealed the country added 1.74 GW of energy storage systems between Jan. 1 and Oct. 31, 2024.. Publishing storage system data for the first time, Terna reported Italy had around 707,000 installations at the end of October, corresponding to 11,783 MWh of capacity ???



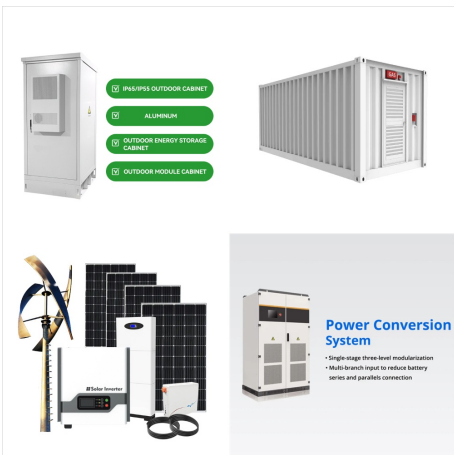
Therefore, battery energy storage systems (BESS) are needed in Italy. The Italian market for BESS is growing rapidly and currently amounts to 2.3 GW but it almost exclusively consists of residential scale systems, associated with small scale solar plants, having an average capacity of less than 20 kWh.



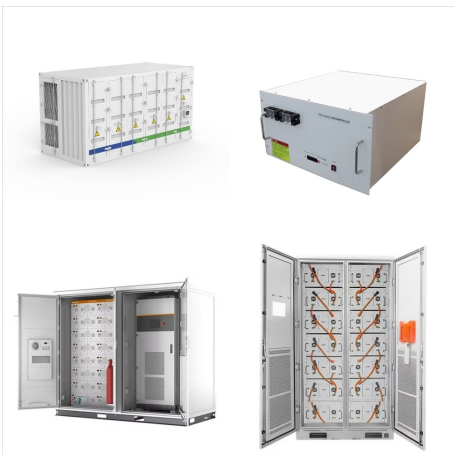
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Minister of the environment and energy security Gilberto Pichetto has signed a decree allowing Italy to proceed with its energy storage capacity auction, known as MACSE, in the first half of 2025. The first phase of the scheme is specifically targeting lithium-ion battery energy storage system (BESS) projects while a second auction will be



In 2023, residential energy storage continued to dominate Italy's energy storage landscape, representing the largest application scenario for newly added installations. Residential PV systems retained their prominence, accounting for 82% and 73% of new installations, followed by utility-scale storage and commercial & industrial (C& I) energy

# ITALY SWEEP ENERGY STORAGE SYSTEM



Italy is launching a state aid package of EUR 17.7 billion for the establishment of a centralized electricity storage system. The scheme is for developers of eligible projects to receive annual payments for investments and operating costs over the next ten years.



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. a tax credit for home energy improvements which covers residential energy storage systems and has fostered the



,1027,JeraSweep? 1/4 ?Sweep Energy Storage System? 1/4 ???? 1027,,???

# ITALY SWEEP ENERGY STORAGE SYSTEM



In a world first, the two companies launched a demonstration of an energy storage system that deploys a wide range of old EV batteries which can connect to the grid. This development holds potential to extend the life of batteries, and as a result can help to partly insulate Japan from disruptions in international supply chains.



3 ? As of Sep. 30, 2024, Italy had a cumulative 692,386 energy storage systems, with a total rated power of 5,034 MW and an energy storage capacity of 11,388 MWh. Almost all of the systems ??? 92% ??? had a capacity of less than 20 kWh, 99.9% were twinned with solar panels, and 99.1% were home installations.



This mechanism would allow the national energy system to acquire new storage capacity, by means of multi-year supply contracts to be awarded to subjects in the availability of storage systems



# ITALY SWEEP ENERGY STORAGE SYSTEM



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



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Construction and Launch of a Large-capacity Sweep Energy Storage System from Reused Electrified Vehicle Batteries Connected to the Electrical Power Grid, Toyota City, Japan, October 27, 2022. Battery Storage JERA Toyota.

# ITALY SWEEP ENERGY STORAGE SYSTEM



Toyota stellt zusammen mit dem japanischen Energieversorger Jera einen stationären Energiespeicher für das japanische Stromnetz vor. Das sogenannte Sweep Energy Storage System nutzt die Altbatterien elektrifizierter Toyota-Modelle ??? also vor allem Akkus von Hybridautos, daneben aber auch von Plug-in-Hybridfahrzeugen, Brennstoffzellen-Modellen ???



Pumped storage: Planning for 1.5 GW in Scotland, new alliance for 500 MW in Italy, progress on 600 MW Scottish project Scottish energy storage company ILI Group has lodged plans for a major pumped hydro facility at a famous Scottish loch. Meanwhile, renewable energy developer Drax has appointed engineering firm Voith Hydro to move forward its



Toyota Motor Corporation and JERA Co., Inc. have announced that they are working on the first large-scale Sweep Energy Storage System in the world. This installation was created with the use of batteries from electrified vehicles. It was connected to the power grid and started operations on the 8th of November 2022. Projections say that the demand for storage ???