

ITALIAN ELECTROCHEMICAL ENERGY STORAGE APPOINTMENT CONSULTATION



Why is Italy an attractive market for energy storage systems? To meet such requirements, the storage facilities will have to be realized with a power in both absorption and release equal to at least 9 GW. This makes Italy a particularly attractive market for energy storage systems. 1.

MACSE: first consultation conducted by Terna



Will Italy deploy 71 GWh of energy storage in 2033? Sphera Energy applauds the announcement on the 21st December of the approval by the EU Commission for the upcoming state support and auctions mechanism (managed by TSO Terna) for the deployment of 71 GWh of utility scale Energy Storage in Italy between now and 2033.



How does Italy guarantee a long-term supply system of new storage capacity? The Italian legislator has acted to guarantee a long-term supply system of new storage capacity by introducing a mechanism based on competitive, transparent and non-discriminatory auctions. The system recognises the right to an annual remuneration, in exchange for the provision of the awarded capacity as part of the national energy market.



What is the RES scheme in Italy? The Italian scheme The scheme notified by Italy will support the construction of electricity storage facilities with a joint capacity of more than 9 GW/71 GWh. The scheme will run until 31 December 2033. The measure aims to facilitate the integration of renewable energy sources ('RES') in the Italian electricity system.



How much does EU Commission approve for a centralised electricity storage system? EU Commission approves 17.7 billion Italian scheme to EU Commission approves 17.7 billion Italian scheme to support development of centralised electricity storage system.

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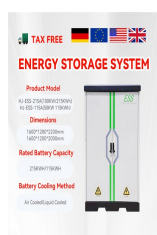
What challenges will Italy face in the energy transition? Energy transition ??? the need to achieve progressive and complete decarbonisation by 2050 ??? presents Italy with important challenges in increasing energy production from renewable resources on the one hand, and the necessary progressive increase in the availability of utility-scale energy storage capacity on the other.



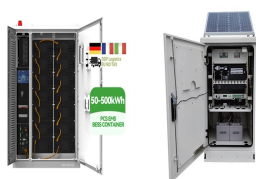
Redox flow batteries (RFB) are a type of electrochemical energy storage device where electrical energy is stored via chemical "reduction and oxidation" reactions in a liquid electrolyte. Read ???



This paper offers a wide overview on the large-scale electrochemical energy projects installed in the high voltage Italian grid. Detailed descriptions of energy (charge/discharge times of about ???

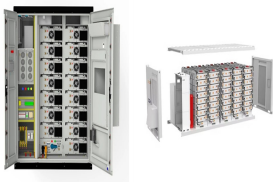


Killengray confirmed MACSE is an Italian tool to drive long-duration battery energy storage and also discussed project oversizing, internal rates of return, and the lifespan of ???



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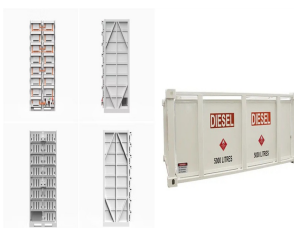
The - - Electrochemical storage (WP1) - 4.0 M ??? Thermal storage (WP2) - 1.2 M ??? Electrochemical - Power to Gas (WP3) - 7.8 M ??? - Production of H₂ from renewables (WP4) - ???



The activities of the Center will be able to provide a significant impulse to the electrochemical energy storage sector, both as regards the production of innovative materials, with higher ???



In addition to the energy-intensive and the power-intensive projects, other small-sized electrochemical energy storage projects were developed in Italy, for several applications. ???



OUR ACTIVITIES. Development, testing and characterization of electrochemical systems for the storage and conversion of electrical energy: redox flow batteries (RFBs), fuel cells and hydrogen and electric propulsion systems (powertrains) ???



Currently, eligible technologies include electrochemical lithium-ion storage, as well as hydro pumped storage plants. As part of the measure, a new "time-shifting trading platform" will be set-up. Through this platform, storage capacity will be ???

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? 1/4 ? ,GW?h,,??? ???