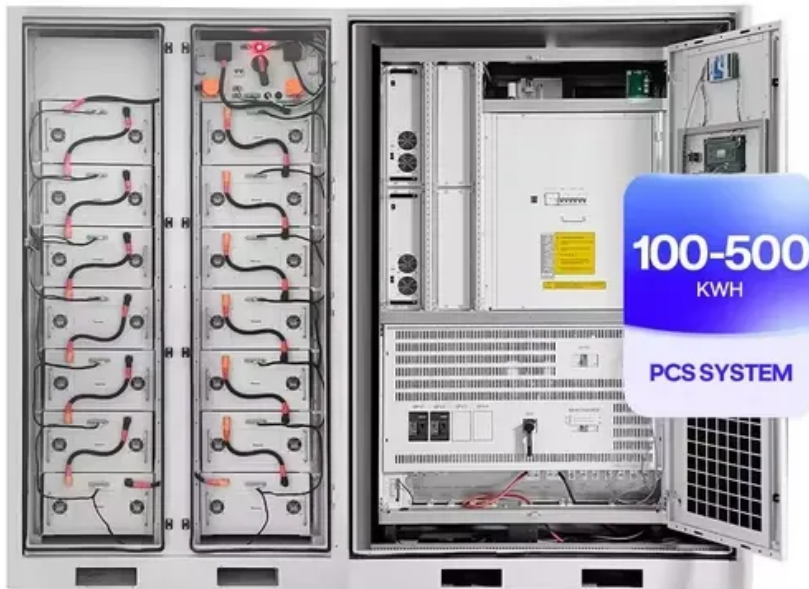


ContainerPower Energy Solutions

Italian microgrid energy storage power generation system



Overview

The aim of this study is to investigate the long-term planning of the Italian power sector from 2021 to 2050. The key role of photovoltaic and wind technologies in combination with power-to-power systems base.

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.

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.

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.

Is there a need for energy storage solutions in Italy?

Local industry contacts, as well as U.S. sector firms, have also indicated to Post that there is a need for energy storage solutions in Italy.

Are batteries and Hy-Drogen promoting a progressive decarbonization of the Italian power sector?

Both batteries and hydrogen are introduced as electrical energy storage systems. The role of VRES and storage facilities (batteries and hy-drogen) in promoting a progressive decarbonization of the Italian power sector is then explored from an economic and environmental perspective.

How is Italy transforming its energy system?

Italy, like much of Europe, is undergoing a rapid transformation in how it generates and distributes energy. With solar PV and wind power ramping up quickly, grid operators are increasingly reliant on energy storage systems to manage variability and avoid curtailment of renewable energy during periods of oversupply.

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