

A solar photovoltaic (PV)-battery energy storage-based microgrid with a multifunctional voltage source converter (VSC) is presented in this article. The maximum power extraction from a PV ...

Alternatively, excessive renewable electricity from photovoltaic systems and wind power plants can be converted into storable thermal energy through the joule heating ...

Abstract. The energy dispatching and distribution ability is improved by optimizing the configuration of hybrid energy storage capacity of multi-energy system in low ...

This article proposes a generic multifunctional control strategy for battery energy storage system (BESS), aiming at achieving multiple objectives, such as, controlling the ...

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Thermal energy storage technology has the advantages of low cost, high technical maturity, and easy large-scale application, providing a highly competitive solution to ...

The vigorous deployment of clean and low-carbon renewable energy has become a vital way to deepen the decarbonization of the world's energy industry under the global goal of carbon ...

As a key link of energy inputs and demands in the RIES, energy storage system (ESS) [10] can effectively smooth the randomness of renewable energy, reduce the ...

Biomimetic rapid large-capacity solar/electro-thermal charger (A) Dynamic harvesting of renewable solar/electro-thermal energy. (B) Schematic structure of the solar/electro-thermal ...

Request PDF | On Oct 1, 2023, Xiaoxiang Li and others published Rapid large-capacity storage of renewable solar-/electro-thermal energy within phase-change materials by bioinspired ...

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