

To enhance the capability of PV consumption and mitigate the voltage overrun issue stemming from the substantial PV access proportion, this paper presents a multi-objective energy storage optimization ...

This paper studies the capacity optimization allocation of electrochemical energy storage on the new energy side and establishes the capacity optimization allocation model on the basis of fully considering ...

In view of this technical background, this study proposes an optimal configuration method for a multitype energy-storage capacity to enhance the ability of new energy consumption and actively support the ...

In response to the current issues of insufficient security assessment and the difficulty of balancing security and economy, a method for optimizing the configuration of PV-storage systems that ...

In this paper, a method of configuring energy storage capacity is proposed based on the uncertainty of PV power generation. A k-means clustering algorithm is used to classify weather...

This paper analyzes the composition and operation principles of this structure. To assess the economic benefits brought by the integration of photovoltaic and energy storage systems, a bilevel optimization model is ...

An energy storage capacity allocation method is proposed to support primary frequency control of photovoltaic power station, which is difficult to achieve safe and stable operation after a high proportion of ...

Ensuring the economic viability and stability of a PV-storage-charging integrated system hinges on the rational configuration of photovoltaic (PV) capacity, battery energy storage...

This paper introduces the capacity sizing of energy storage system based on reliable output power. The proposed model is formulated to determine the relationship between the power capacity and wind ...

In this work, the grey target decision method based on the entropy weight method (EWM) is used to obtain the optimal compromise solution from the Pareto non-dominated set. Moreover, the proposed ...

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