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Title: Wind solar and energy storage configuration

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Using the HOMER hybrid renewable energy simulation and optimization platform, we constructed various hybrid energy systems for a specific region and considered multiple power ...

In this paper, the capacity optimization model of the complementary energy storage system is established based on the analysis of the wind-solar energy storage principle and the energy...

In this paper, we propose a source-load matching strategy based on wind-solar complementarity and the "one source with multiple loads" concept. We prioritize the more stable low ...

To address the inherent challenges of intermittent renewable energy generation, this paper proposes a comprehensive energy optimization strategy that integrates coordinated ...

To make full use of the electric power system based on energy storage in a wind-solar microgrid, it is necessary to optimize the configuration of energy storage to ensure the stability of a ...

This paper takes wind resources, solar energy, hydraulic resources and storage power sources as the research object to allocate the optimal capacity of wind resources, solar energy and storage power ...

This study proposes a collaborative optimization configuration scheme of wind-solar ratio and energy storage based on the complementary characteristics of wind

This study uses the Parzen window estimation method to extract features from historical data, obtaining distributions of typical weekly wind power, solar power, and load.

This paper presents a comprehensive multi-objective planning framework for the optimal configuration of wind, solar, and energy storage systems within interconnected microgrid groups.

Wind-solar hybrid power generation systems are widely used in areas rich in wind and solar energy. However, because of the instability, intermittent and volatile of wind and light, it is ...

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