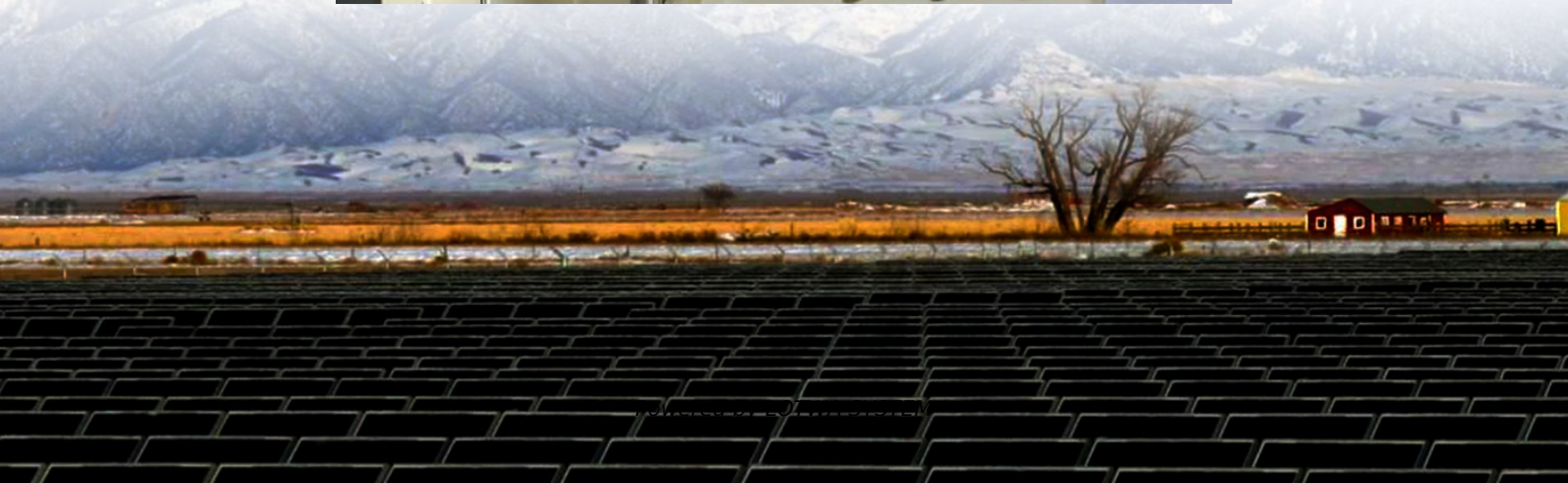


Non-base charging and discharging power of energy storage power station





Overview

What is a photovoltaic charging station?

Photovoltaic charging stations are usually equipped with energy storage equipment to realize energy storage and regulation, improve photovoltaic consumption rate, and obtain economic profits through “low storage and high power generation” .

What is the scheduling strategy of photovoltaic charging station?

There have been some research results in the scheduling strategy of the energy storage system of the photovoltaic charging station. It copes with the uncertainty of electric vehicle charging load by optimizing the active and reactive power of energy storage .

When does the energy storage system choose not to discharge?

When the grid price is in the valley period, such as 15:00–18:00, the energy storage system chooses not to discharge regardless of the power shortage. Thereafter, the energy storage system initiates the discharging mechanism when the grid price is in the peak period starting period of 18:00.

How is the energy storage charging and discharging strategy optimized?

The model is trained by the actual historical data, and the energy storage charging and discharging strategy is optimized in real time based on the current period status. Finally, the proposed method and model are tested, and the proposed method is compared with the traditional model-driven method.



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