
Scalable Spot Trading of Energy Storage Containers

Can the spot market restore the commodity attributes of electricity?

Under the influence of recent power system reforms, the spot market (SM) can fully restore the commodity attributes of electricity, effectively fac...

Do large-scale energy storage systems operate independently in the SM?

Currently, large-scale energy storage systems mainly operate independently in the SM, both on the generation (Gao et al., 2021; Gu and Sioshansi, 2022) and grid sides (Jiang et al., 2020; Abdelghany et al., 2024).

Do distributed energy storage systems play a dual role of generation and consumption?

As an emerging flexible resource in the power market, distributed energy storage systems (DESSs) play the dual roles of generation and consumption (Kalantar-Neyestanaki and Cherkaoui, 2021; Li et al., 2021), thereby complicating the market dynamics for energy storage users.

How is the spot spread arbitrage model based on tdeps?

It is calculated by using the PTC, which is based on the bidding information that is reported by the supply and demand participants rather than being based on the final settlement price for end-users. Therefore, the spot spread arbitrage model for DESS considering TDEPs is shown in Equation 21.

In the context of the construction of a new power system, the coordinated development of industrial and commercial energy storage containers and virtual power plants ...

In this paper, we propose an electricity spot market trading model that considers the trading preferences of energy storage to incentivize energy storage to participate more ...

Keywords: bidding mode, energy storage, market clearing, renewable energy, spot market

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As the global energy transition accelerates, modular and mobile renewable energy solutions are gaining significant attention. Among them, Solar Power Containers have ...

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