

# **Bidding Price for Mobile Energy Storage Container with Two-Way Charging**





## Overview

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The combination of wireless charging roads and energy storage systems is a promising option for electric vehicle charging because of their capabilities in mitigating range anxiety of electric vehicle drivers.

What is a two-layer bid quantity model?

2) A two-layer bid quantity model for DESS joint users to participate in the SM has been proposed, where the optimal trading strategy has been devised to maximize the daily revenue of the DESSs in the upper layer, while the clearing model guides the bid quantity strategy of the upper-layer DESSs through market price signals.

Is there an operational price-taker bidding strategy?

Therefore, an operational price-taker bidding strategy of the DESSs, combined with users that participate in the SM, has been proposed in the present study.

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.

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).



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Bidding strategy for wireless charging roads with energy storage ...

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Jan 1, 2021 · When the load of a distribution system approaches its limit, additional EV charging demand is met by the BES, and the price is determined in an automated two-way bidding ...

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Day-Ahead Two-Stage Bidding Strategy for Multi-Photovoltaic Storage

Jan 14, 2025 · Against the backdrop of a "dual-carbon" strategy, the use of photovoltaic storage charging stations (PSCSs), as an effective way to aggregate and manage electric vehicles, ...

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Optimal price-taker bidding strategy of ...

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Energy storage container bidding

Is energy storage the answer to time-shifting arbitrage? But these companies are coming to realize that with the limited merchant risk they carry, energy storage combined with automated ...

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Resilient market bidding strategy for Mobile energy storage ...

A market equilibrium model with joint consideration on energy and TGC is proposed, which includes two-stages of day-ahead and real-time analysis, to formulate the complex decision ...

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Optimal price-taker bidding strategy of distributed energy storage

Sep 13, 2024 · 2) A two-layer bid quantity model for DESS joint users to participate in the SM has been proposed, where the optimal trading strategy has been devised to maximize the daily ...

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