

# Industrial power storage cooperation model





## Overview

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How do we integrate storage sharing into the design phase of energy systems?

We adopt a cooperative game approach to incorporate storage sharing into the design phase of energy systems. To ensure a fair distribution of cooperative benefits, we introduce a benefit allocation mechanism based on contributions to energy storage sharing.

What is shared energy storage?

Shared energy storage embodies sharing economy principles within the storage industry. This approach allows storage facilities to monetize unused capacity by offering it to users, generating additional revenue for providers, and supporting renewable energy prosumers' growth.

How can shared storage improve energy systems?

By integrating shared storage into these projects, system operators can better manage their energy resources, improve grid stability, and support the transition to renewable energy sources. This model fosters participants cooperation and investment, leading to more sustainable and resilient energy systems. 6. Conclusions.

What is shared energy storage mode?

The SO invests in and operates the shared storage. The shared energy storage mode is characterized by the following key features. (a) Contractual agreement: The SO and prosumers enter into a contractual arrangement wherein prosumers purchase capacities from the SO.



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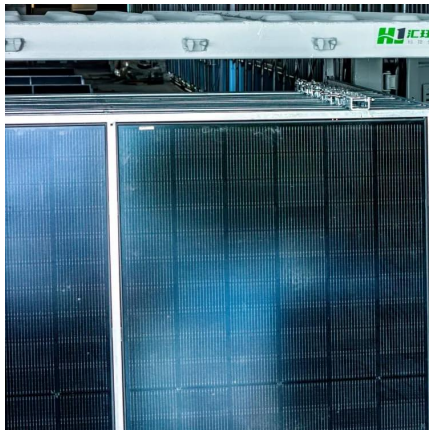


coordination, poses significant challenges for fair ...



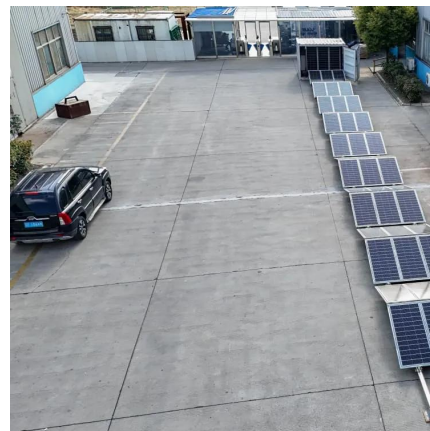
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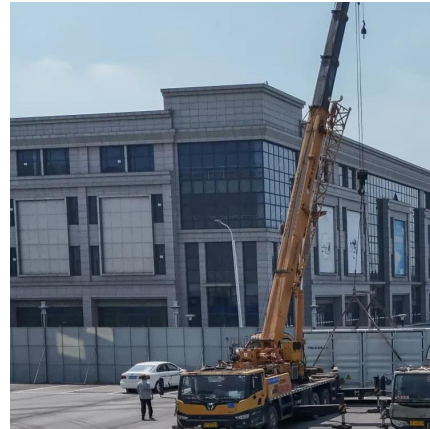






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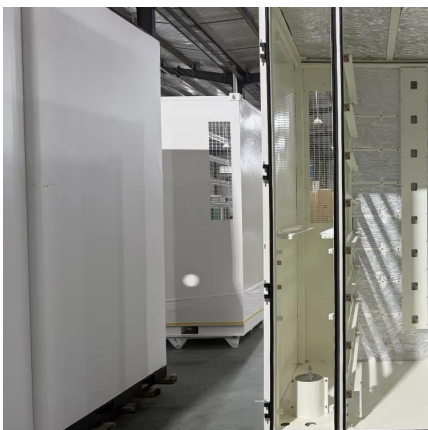


## Markov Model and Game of Cooperation- based Storage ...

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