



BUHLE POWER

Cooperation model of distributed energy storage cabinets in Eastern Europe





Overview

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.

Can cooperative game theory be used to plan shared energy storage?

(2) Application of cooperative game theory to the planning of shared energy storage, with the introduction of the Shapley value and Banzhaf value to evaluate each participant's contribution to storage sharing. The proposed approach ensures a realistic and cost-effective maximization of resource utilization.

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.

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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