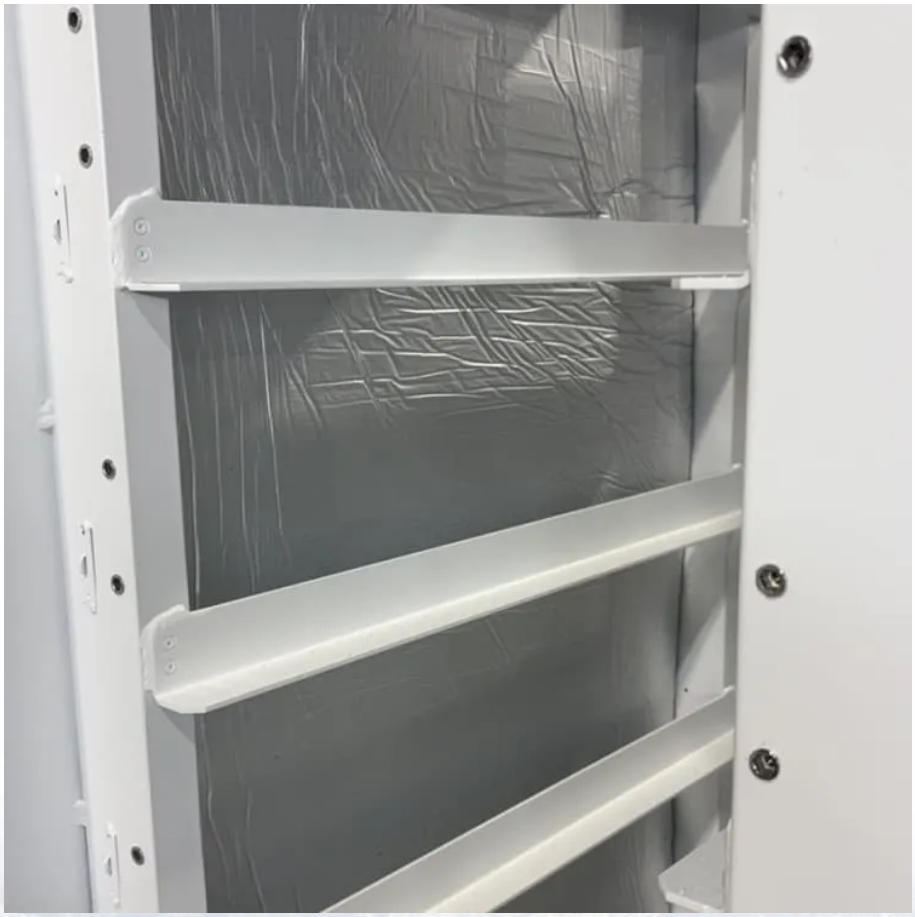
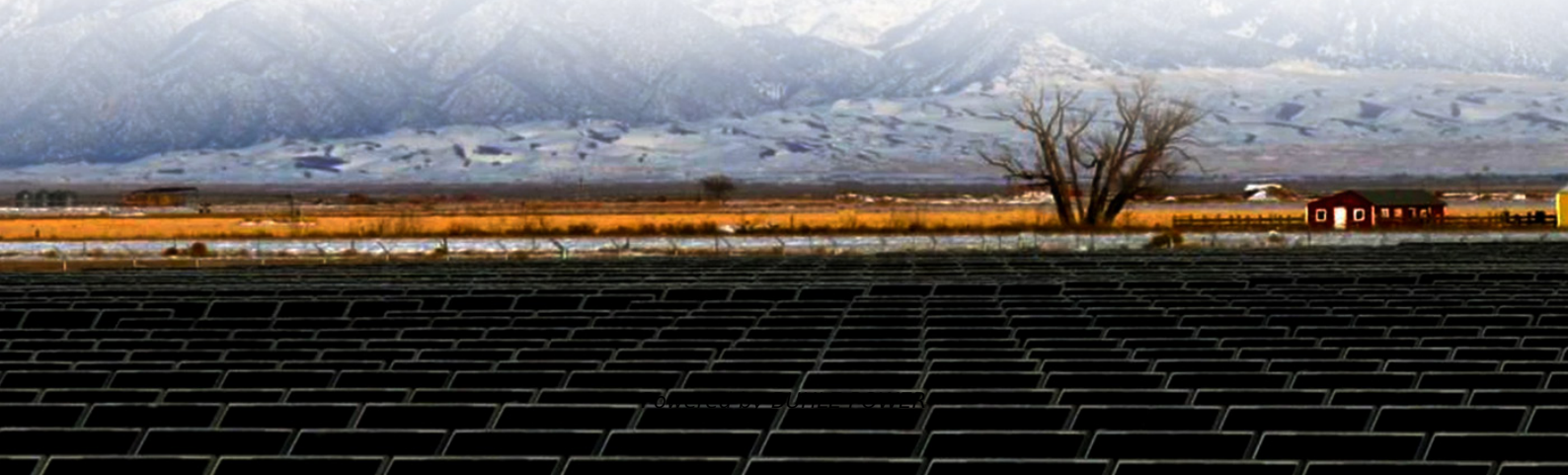
BUHLE POWER

Bern Mobile Energy Storage Container Single-Phase Trading Conditions





Overview

What is a new model for bidding and clearing energy storage resources?

Abstract: This paper introduces and rationalizes a new model for bidding and clearing energy storage resources in wholesale energy markets. Charge and discharge bids in this model depend on the storage state-of-charge (SoC). In this setting, storage participants submit different bids for each SoC segment.

How can a SoC segment market model reduce energy storage costs?

Using SoC segment market models which is 5% more compared to the current storage model. The more effective at reducing system price v olatilities. costs of energy storage. It also allows storage participants to economically manage their SoC through bid parameters. This tions. The first is to incorporate the SoC segment market model.

Can energy storage change bids based on price/opportunity?

The energy storage cannot change bids according to price/opportunity cost variation within hours and submits averaged bids to the system operator instead. The single-period model with 1-segment bids (RTD-1) loses 9.6% more profit than RTD-5.

How can modular storage and transportation improve energy transfer for mobile heating?

To heighten the efficiency of energy transfer for mobile heating, this research introduces the innovative concept of modular storage and transportation. This concept is brought to life through the development of a meticulously designed modular mobile phase-change energy storage compartment system.

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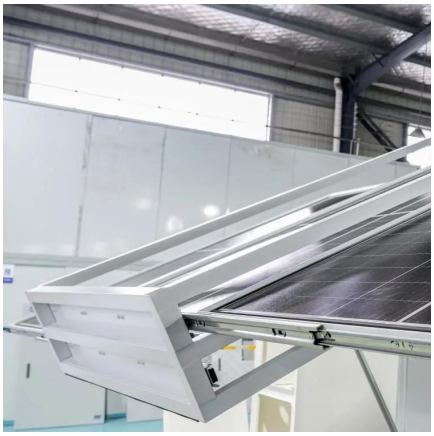

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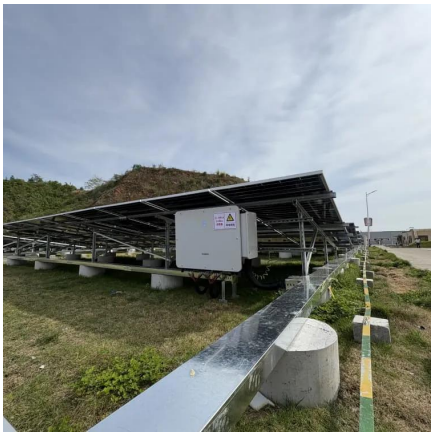

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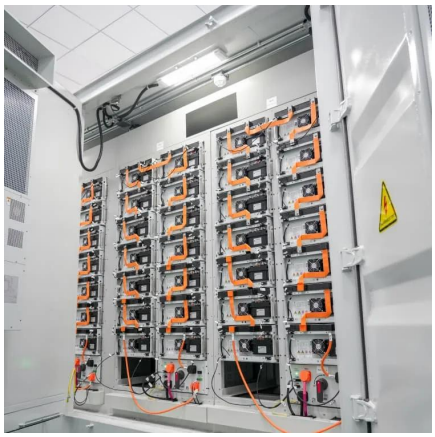

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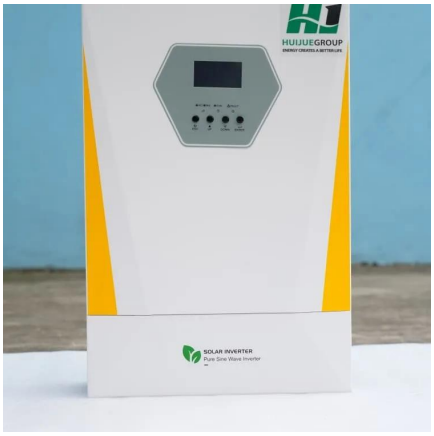

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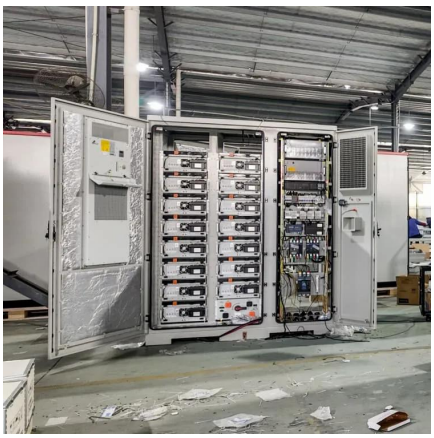

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