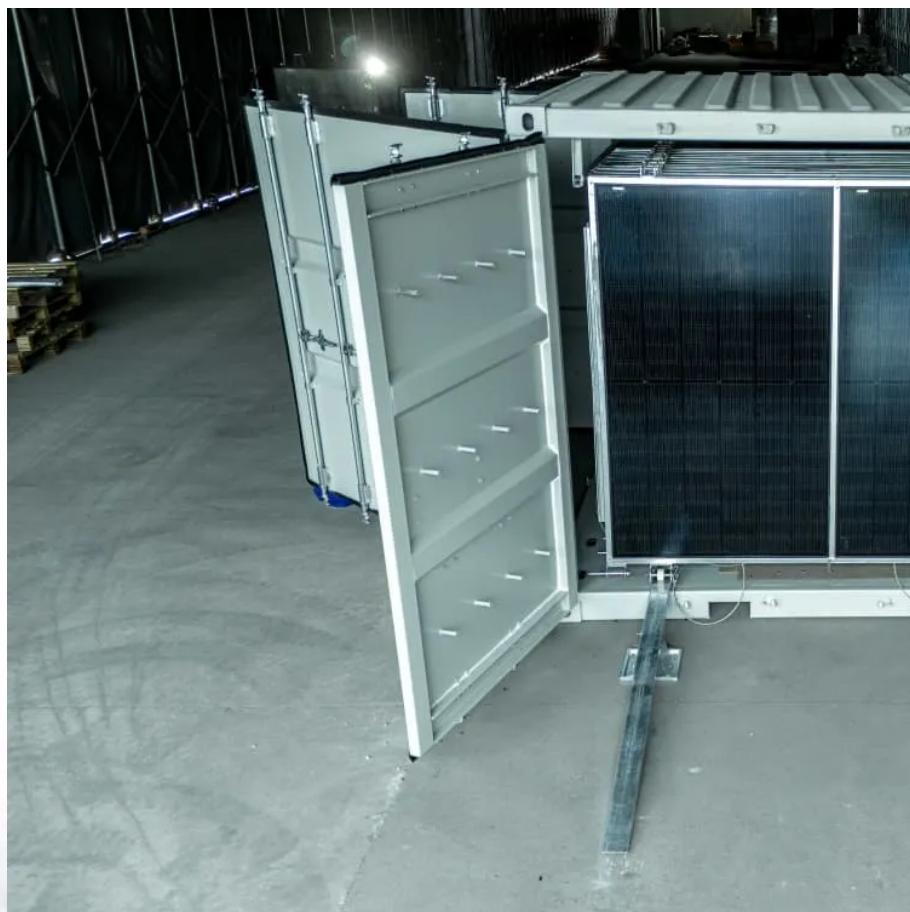




LLSE CONTAINERS

# **Single-phase trading conditions for mobile energy storage containers**





## Overview

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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 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.

Which market model is best suited for energy storage?

In terms of market design, we consider three market models: Multi: the energy storage is not constrained by the market bidding model and can freely make charge and discharge decisions to arbitrage price differences. This case represents the best possible arbitrage results and adopts the optimization multi-period dispatch model (1).

Can biological phase-change materials be used in chilled thermal energy systems?

Fragnito et al. explored the performance of heat exchangers with biological phase-change materials in chilled thermal energy systems through research experiments and numerical modelling, revealing that the design limits the thermal storage potential of the phase-change materials.



## Single-phase trading conditions for mobile energy storage container



### Numerical Simulation and Optimization of a Phase-Change Energy Storage

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...

The M- -TES is enhanced by the utilization of Phase Change Materials (PCMs), which have a high capacity to absorb or release thermal energy in the form of latent heat, differentiating them ...



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