

# **Alternative Solution for Two-Way Charging of Mobile Energy Storage Containers**





## Overview

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Can unidirectional and bidirectional charging be integrated into a hybrid energy storage system?

In the case of bidirectional charging, EVs can even function as mobile, flexible storage systems that can be integrated into the grid. This paper introduces a novel testing environment that integrates unidirectional and bidirectional charging infrastructures into an existing hybrid energy storage system.

What are the different types of energy storage options?

Scalable, Modular Energy Storage: Configurations range from 150kWh to 450kWh, with daisy-chaining options for extended capacity. Energy Storage Only – Providing flexible, off-grid power solutions. CCS DC Fast Charging – Featuring dual 150kW CCS chargers, suitable for high-speed public and commercial EV charging.

Can stationary and mobile storage reduce energy costs?

By integrating stationary and mobile storage systems into the energy infrastructure of factories, the potential for reducing energy costs and increasing sustainability is massively increased. As different storage technologies have their own unique advantages and disadvantages, the former of each can be leveraged by intelligent operating strategies.

Can a stationary hybrid storage system provide unidirectional and bidirectional charging infrastructures?

This work presents a combination of a stationary hybrid storage system with unidirectional and bidirectional charging infrastructures for electric vehicles.



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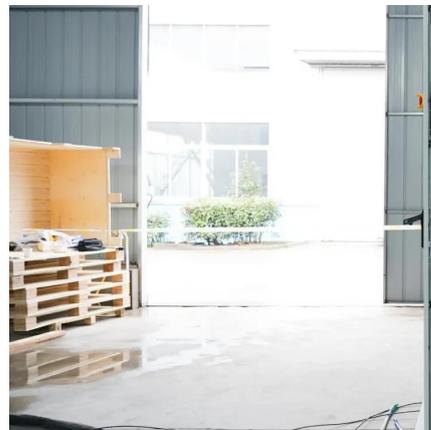
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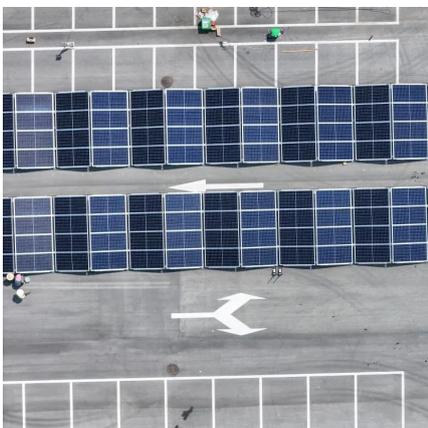


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