



LLSE CONTAINERS

# Mobile energy storage containers are most suitable for bidirectional charging in the catering industry





## Overview

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••Mobile energy storage technologies are summarized.••.

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.

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.

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.

Does bidirectional storage reduce energy supply costs in Europe?

The bidirectional development of the existing storage capacity in electric vehicles for the energy system reduces the energy supply costs in Europe compared to a scenario without bidirectional electric vehicles. The use as daily storage improves the system integration of renewable energies and PV energy in particular.



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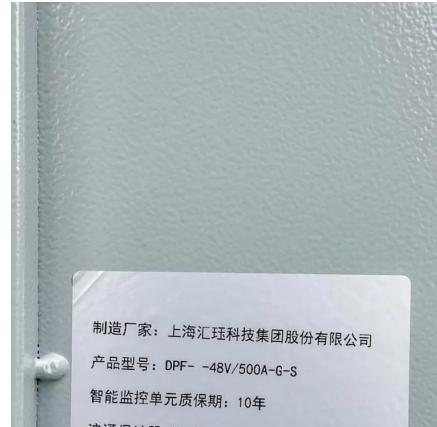
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