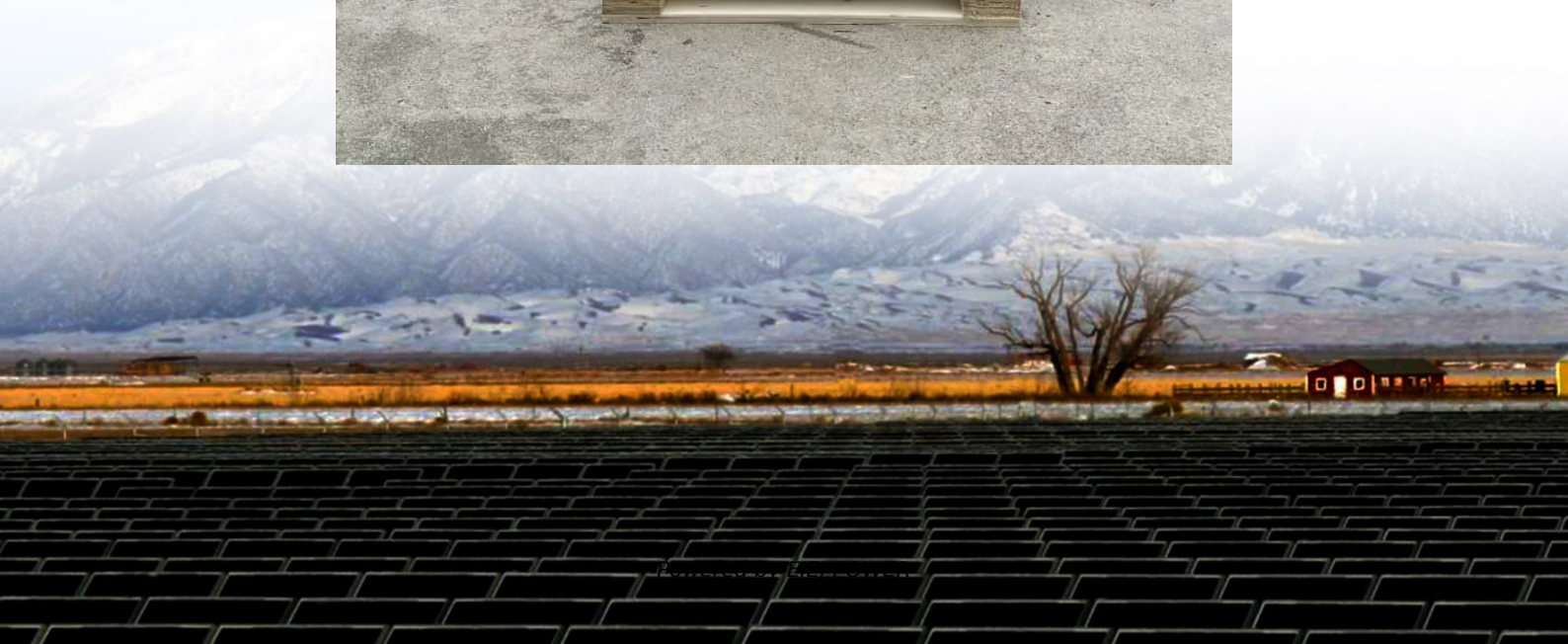


Bidirectional charging of mobile energy storage containers for data centers





Overview

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.

Why should we invest in bidirectional charging systems?

Investing in bidirectional charging systems, intelligent control and sustainable building integration will help to make mobility fit for the future and adapt the electricity grid to the growing number of electric vehicles. Refines texts, makes connections and is always looking for new topics. Bidirectional charging makes it possible!.

What data can be collected from a charging system?

With this setup, not only can charging-related data be collected (e.g., cell and battery voltages, current, SoC, and state of health) but also driving data (e.g., speed, acceleration, steering angle, energy consumption, and power).



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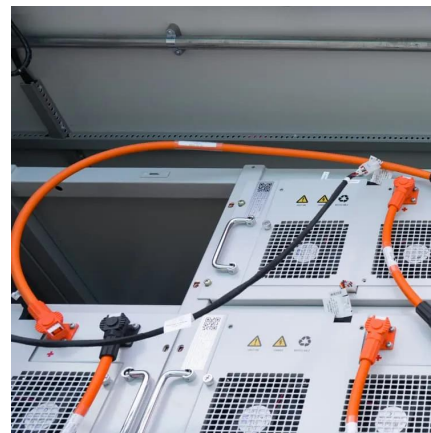
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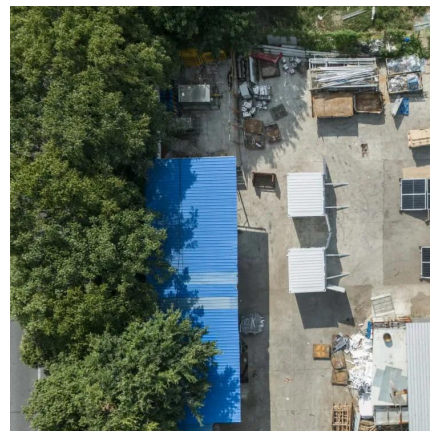


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