Bidirectional charging of photovoltaic energy storage containers for highways

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The aim of the project was to optimise the geographical and temporal distribution of surplus energy from renewable energy systems (RE ...

The duty cycle of the converter controls charging and discharging based on the state of charge of the battery and direction of the current. In this paper, a nonisolated bi-directional DC-DC ...

This paper introduces a novel testing environment that integrates unidirectional and bidirectional charging infrastructures into an existing hybrid energy storage system.

This paper introduces a new bidirectional vehicle-to-grid (V2G) control strategy for energy management of V2G charging points ...

The aim of the project was to optimise the geographical and temporal distribution of surplus energy from renewable energy systems (RE systems) using bi-directional electric vehicles ...

Bidirectional charging, such as Vehicle-to-Grid, is increasingly seen as a way to integrate the growing number of battery electric vehicles into the energy system. The electrical ...

The objective of this article is to propose a photovoltaic (PV) power and energy storage system with bidirectional power flow control and hybrid charging strategies.

The Bidirectional Charging project, which began in May 2019, aimed to develop an intelligent bidirectional charging management system and associated EV components to ...

The integrated development path of PV-Storage-Charging transportation and energy integration can consume renewable energy locally, alleviate grid pressure while ...

Hager Group develops and markets innovative solutions that allow electric vehicles to be used as storage for excess solar energy and ...

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