

Bidirectional Charging of Smart Photovoltaic Energy Storage Containers for Ships

In this work, a novel energy storage system consisting of a hybrid storage system and an intelligent and bidirectional charging station was shown. The technical properties of the storage ...

We examine pilot projects and business use cases, focusing on Building Integrated Vehicle Energy Solutions (BIVES) and Resilient Energy Storage and Backup (RESB) as stepping stones towards full ...

This study evaluates the long-term environmental effects of a widespread deployment of bidirectional charging in the European energy supply sector using a prospective life cycle assessment (pLCA) ...

Enhancing grid stability and efficiency can be achieved by integrating renewable energy sources (REs), such as solar and wind power (PV), with the electrical sy

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 ...

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

The case study focuses on rural distribution grids in Southern Germany, projecting the repercussions of different charging scenarios by 2040. Besides a Vehicle-to-Grid scenario, a mixed ...

The technology enables charging the batteries of electric vehicles and transferring the stored energy back to the stationary storage system in the building or to the grid when needed.



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