Comparison of bidirectional charging of photovoltaic energy storage containers used in oil refineries

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By synthesizing these advancements, we propose a strategic direction for the advancement of integrated PV storage and charging solutions, paving the way for scalable ...

In this work, a novel energy storage system consisting of a hybrid storage system and an intelligent and bidirectional charging station ...

To this end, an intelligent bidirectional charging management system and the associated components of EVs were developed and tested in a real environment to be able to ...

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 ...

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 ...

This paper presents a novel integrated Green Building Energy System (GBES) by integrating photovoltaic-energy storage electric vehicle charging station (PV-ES EVCS) and ...

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

This paper presents a novel integrated Green Building Energy System (GBES) by integrating photovoltaic-energy storage electric ...

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In this paper, a nonisolated bi-directional DC-DC converter is designed and simulated for energy storage in the battery and interfacing it with the DC grid.

Adjacent to the PV subsystem is the energy storage unit, serving as a buffer between energy generation and consumption. The ...

The novelty lies in the environmental assessment and comparison of these effects to the consequences of bidirectional charging on the footprint of required ICT and changing ...

The technology enables charging the batteries of electric vehicles and transferring the stored energy back to the stationary storage ...

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