

Bidirectional charging of photovoltaic containers used in Mongolian chemical plant

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

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.

This paper investigates how various patented innovations in PV storage-integrated devices, charging piles, and intelligent control cabinets can be synergized to create a more resilient and ...

Beside of the negative aspects of grid overload in time slots with charging power peaks, we also see a great positive aspect in the opportunities of an intelligent controlled ...

This proposed work presents three-phase grid integration with solar energy (PV array) with a bidirectional buck-boost converter topology. The PV array output is

In this paper, the proposed model is discussed, and on-board charging is suggested as a bidirectional charging infrastructure to assist EV owners with proper scheduled ...

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

The diagram in Figure 1 illustrates the architecture of a grid-integrated photovoltaic (PV) system with electric vehicle (EV) charging. The key feature is the integration of the PV array with the ...

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Advanced conversion technologies, such as high-power DC-DC converters and smart charging systems, are necessary to mitigate these issues, ensuring seamless and ...

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, ...

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