

Bidirectional Charging of Jordanian Photovoltaic Energy Storage Containers for Ships

Are bidirectional EVS a viable option in Jordan?

While bidirectional EV setups enhance self-consumption and reduce dependence on the external grid, they face financial challenges, including higher initial costs and a lower net present value (NPV) due to maintenance expenses. In Jordan the time-of-use (TOU) pricing system has applied for EVs charging.

How can bidirectional charging/discharging a battery achieve maximum PV power utilization?

In addition, with the proposed strategies, the bidirectional charging/discharging capability of the battery is able to achieve the maximum PV power utilization. All the proposed strategies can be realized by the digital signal processor without adding any additional circuit, component, and communication mechanism.

Why is EV charging a dynamic pricing system implemented in Jordan?

The dynamic pricing system implemented in Jordan emphasizes the importance of incorporating local economic considerations when evaluating EV charging technologies.

Are unidirectional and bidirectional electric vehicle chargers profitable in Amman?

The results of the profitability study comparing unidirectional and bidirectional electric vehicle (EV) chargers in Amman are presented in Table 5. In general, the investment costs of the unidirectional EV system are lower than the initial investment costs of the bidirectional system (7,480 USD vs. 8,880 USD).

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The study evaluates photovoltaic (PV) charging stations for electric vehicles in Jordan's climate. Economic feasibility shows electric vehicles are environmentally friendly and cost-effective compared ...

Unidirectional chargers, valued for their simplicity and cost-effectiveness, are widely deployed. In contrast, bidirectional chargers enable advanced functionalities such as Vehicle-to-Grid ...

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. In order to optimize the ...

In addition, with the proposed strategies, the bidirectional charging/discharging capability of the battery is able to achieve the maximum PV power utilization. All the proposed strategies can be realized by ...

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

In order to facilitate the further expansion of electric ships, the advancement of electric ship technology must develop strategies for the rational utilization of the power grid in inland river ...

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