Bidirectional charging of photovoltaic containers from Uzbekistan at power stations

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This paper presents the design and simulation of a bi-directional battery charging and discharging converter capable of interacting with the grid.

This research presents a detailed analysis of a PV-battery-based EV charging system incorporating both Vehicle-to-Grid (V2G) and Grid-to-Vehicle (G2V) functionalities using ...

In this paper, the technical issues of the bidirectional EV charging system have been addressed, and the power quality, transient performance, and the ability to meet the ...

This study examines the large-scale adoption of EVs and its implications for the power grid, with a focus on State of Charge (SOC) estimation, charging times, station ...

The paper suggests a novel approach for PV-powered electric vehicle charging stations, proposing a combined converter that enhances bidirectional system feasibility ...

In this study, a novel multi-port bi-directional converter is proposed to be utilized as an off-board EV charging station. Four modes of operation, high gain, and three input/output ...

This paper presents the design and simulation of a bi-directional battery charging and discharging converter capable of ...

The We Drive Solar project in Utrecht integrated V2G technology with solar energy, allowing EVs to store and discharge excess power to the grid. It aimed to enhance energy self-suficiency, ...

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This paper presents a novel PV-tied Adaptable Z-Source Inverter (AZSI) for multiport EV charging. The modified split capacitor Z-source impedance networks ensure ...

This study examines the large-scale adoption of EVs and its implications for the power grid, with a focus on State of Charge (SOC) ...

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

Novel Bidirectional Charging/Discharging Schemes in PV Supported EV-Battery Charging Station in a Hybrid AC/DC

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