Bidirectional charging of pv distributions for sports stadiums

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This paper presents bidirectional power flow between the power grid and EVs through on-board charging to address this issue. The bidirectional power flow is here assisted by a control ...

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

This paper designs a bidirectional control technique that provides efficient operation during the charging and discharging of EV batteries. The Photovoltaic (PV) array is integrated with the system to charge ...

The aim of this work is to assess the economic investment of photovoltaics (PVs) on a sport center microgrid using different charging methods and by efficiently exploiting the PV generation.

The authors present the estimation of current harmonic injection of EVs charging with different voltage distortions and examine the impact of EVs charging on the distribution transformer ...

To avoid the added space, weight, and cost a true bi-directional charger uses bi-directional switching topologies with complex digital controls to allow each power conversion stage to transfer power in ...

In simpler terms, it shows how solar power and the electric grid work together using a special circuit to efficiently charge electric vehicles in both directions.

To address this, optimal charge/discharge scheduling of EVs becomes crucial. This paper introduces an innovative Opposition-based Competitive Swarm Optimization (OCSO) ...

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

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Bidirectional charging describes the technology of not only charging an electric vehicle from the grid, but also feeding electricity back into the grid or to consumers. This is often referred to as Vehicle-2-Grid ...

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