

Title: Two-way charging of solar-powered containers for field research

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In this study, a grid-integrated solar PV-based electric car charging station with battery backup is used to demonstrate a unique hybrid approach for rapid charging electric automobiles.

This work aims to design a robust and compact off-board charging configuration using a Scott transformer connection-based DAB (STC-DAB) converter, which can utilize the full generated ...

This paper proposes the development of a mobile device charging station with solar energy as a source of energy to meet the population's need in a sustainable way.

In this study, an evaluation framework for retrofitting traditional electric vehicle charging stations (EVCSs) into photovoltaic-energy storage-integrated charging stations (PV-ES-I CSs) to improve ...

Recharging batteries with solar energy by means of solar cells can offer a convenient option for smart consumer electronics. Meanwhile, batteries can be used to address the intermittency ...

This review article also provides a detailed overview of recent implementations on solar energy-powered BEV charging stations, pointing out technological gaps and future prospects to ...

This paper proposes the development of a mobile device charging station with solar energy as a source of energy to meet the population's need in ...

To provide a portable charging solution across diverse sectors, this paper proposes an innovative development of a solar-powered multi-functional portable charging device (SPMFPCD) ...

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