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This research presents a comprehensive strategy for the location and capacity determination of off-grid wind-solar storage charging stations, addressing the challenges of EV ...

To address the challenges of cross-city travel for different types of electric vehicles (EV) and to tackle the issue of rapid charging in regions with weak power grids, this paper ...

The use of electric vehicles is increasing to reduce significant concerns regarding the environment like emissions of carbon dioxide, changes in the climate, and worldwide warming. Grid ...

This study aims to design an efficient hybrid solar-wind fast charging station with an energy storage system (ESS) to maximize station efficiency and reduce grid dependence.

Nowadays Electric Vehicles (EVs) are increasing in day-to-day life. To charge those vehicles electricity is required. While the vehicles are at home, they can be charged by using the AC ...

Abstract- This paper delineates a Solar and Wind Energy-based Charging Mechanism (SWCM) designed to power the battery packs of electric vehicles (EVs). The renewable charging station ...

This work focuses on a grid-connected solar-wind hybrid system with a charging station for electric vehicles. The charging system is powered by a combination of solar, wind, and grid ...

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