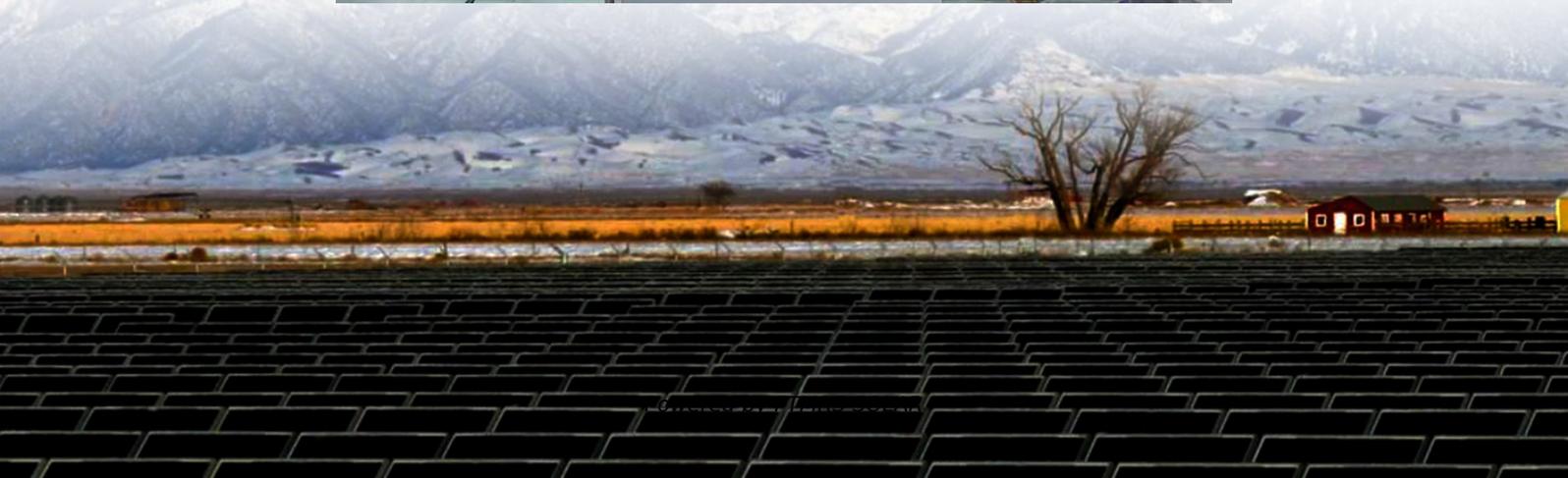


Cost Analysis of Two-Way Charging for Mobile Energy Storage Containers





Overview

How a mobile application is used for energy consumption and generation analysis?

And also, a mobile application was designed for the energy consumption and generation analysis based on the sample data collected from a 24-hour MATLAB Simulation and gave the results of time at which the charging cost of an Electric vehicle is minimum or minimum on that particular day based on the obtained data.

Can stationary and mobile storage reduce energy costs?

By integrating stationary and mobile storage systems into the energy infrastructure of factories, the potential for reducing energy costs and increasing sustainability is massively increased. As different storage technologies have their own unique advantages and disadvantages, the former of each can be leveraged by intelligent operating strategies.

What data can be collected from a charging system?

With this setup, not only can charging-related data be collected (e.g., cell and battery voltages, current, SoC, and state of health) but also driving data (e.g., speed, acceleration, steering angle, energy consumption, and power).

Can a centralized charging strategy improve battery swapping stations?

The authors in developed a centralized charging strategy for battery swapping stations (BSSs) using an improved population-based heuristic algorithm. It took into account the optimal charging priority and locations of EVs based on spot pricing and minimized the total charging cost and impacts on power quality.



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