

Delivery period for bidirectional charging of solar-powered containers used in ports

Aiming at energy-efficient charging for reefer containers, this paper proposes two smart charging planning methods for reefers under energy demand response and peak shaving: flexible ...

They exchange information about charging speed, battery charge and the optimal time to charge or discharge. Based on tariffs, grid capacity and user requirements, the software determines when ...

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

The objective of this article is to propose a photovoltaic (PV) power and energy storage system with bidirectional power flow control and hybrid charging strategies.

To improve energy efficiency and reduce pollution emissions of ports with electricity and hydrogen substitution, this paper proposes a collaborative scheduling method of ...

To enhance the logistics scheduling efficiency of automated guided vehicles (AGVs) in automated ports and achieve the orderly charging and battery swapping of AGVs as well as self ...

Explore how Battery Energy Storage Systems (BESS) and Bidirectional Charging (BDC) are transforming energy storage, improving efficiency, and maximizing renewable energy.

Different bidirectional charging types (V2B, V2H, V2M, V2G, etc.) have implications for the charging system's configuration and ultimately the system's interaction with the grid. Utilities ...

Fellten says that it can be operational within two hours of delivery without any major infrastructure upgrades and features roof-mounted solar panels and a wind turbine generator to ...

As the federal government moves toward fleet electrification, site decarbonization, and deployment of local distributed energy resources (DERs), agencies should consider both managed and bidirectional ...

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