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Title: Bidirectional charging of photovoltaic folding containers at port terminals

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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.

New Opportunities: Introducing clean and efficient autonomous charging may open new opportunities for partnerships between port terminals and companies looking to reduce their ...

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 ...

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Our study focuses on leveraging the integration of AGV charging and dispatching to improve port throughput and better understand the interactions between recharging and task ...

Utilizing an MDC is a sustainable way to meet the load demands in some applications that need the combination of multiple input energy sources (Qin et al., 2014).

A recent study led by Yongsheng Yang from the Institute of Logistics Science and Engineering at Shanghai Maritime University has unveiled a groundbreaking approach to ...

At the Port Newark Container Terminal in New Jersey, solar panels have been shoehorned into a tightly packed, high-traffic shipping facility, without disrupting operations or ...

To enhance the logistics scheduling efficiency of automated guided vehicles (AGVs) in automated ports and

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achieve the orderly ...

The charging optimisation and temperature control mechanism requires each reefer to have seamless communication with other reefers ...

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To enhance the charging efficiency of a battery-powered intelligent guide vehicle (B-IGV) at an automated container terminal (ACT), a dynamic charging scheduling strategy ...

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