Cost-effectiveness of fast charging for photovoltaic containers in oil refineries

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This paper proposes a solar-assisted method for a petrochemical refinery, considering hydrogen production deployed in Yanbu, Saudi Arabia, as a case study to greenize oil refineries.

The proposed optimization framework is applied to a study case and the results prove that PV and ESS could lead to a significant reduction of both the annualized cost and the pollutant ...

This study presents a comprehensive optimization framework for integrating photovoltaic (PV) and battery energy storage systems (BESS) into ...

The capacity optimization model of the integrated photovoltaic- energy storage-charging station was built. The case study bases on the data of 21 charging stations in Beijing.

Mobile 20ft and 40ft BESS containers now provide flexible, scalable energy storage with deployment times reduced by 80% compared to traditional stationary installations. Advanced lithium-ion ...

In this study, an evaluation approach for a photovoltaic (PV) and storage-integrated fast charging station is established.

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 ...

Optimizing the energy storage charging and discharging strategy is conducive to improving the economy of the integrated operation of photovoltaic-storage charging.

Scholars have conducted extensive research on PV-ESS-FCS, aiming to coordinate PV power generation, battery charging and discharging, charging patterns, and grid interaction.

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In this article, a multi-objective optimal scheduling model of the integrated PV storage and charging system with the objectives of system operation cost and environmental protection cost ...

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