Photovoltaic container hybrid type for oil refineries

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In conclusion, this study presents a detailed techno-economic analysis and optimal design of a hybrid renewable energy system integrated with grid connection, with a specific ...

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.

Siemens Solar has pioneered this unexpected yet transformative application, deploying photovoltaic (PV) systems to power remote oil fields, pipelines, and refineries.

This study aims to evaluate a proposed hybrid heating system for heavier refinery products in storage tanks, coupled with TES, including energy, cost, and GHG emission analysis.

The purpose of this study is to investigate the potential use of solar energy within an oil refinery to reduce its fossil fuel consumption and greenhouse gas emissions.

The present study investigates the feasibility of solar hybrid system to generate steam in the oil refinery to maintain the temperature of heavy crude oil products before ...

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Herein, a solar multi-energies-driven hybrid chemical oil refining system, exemplified by residual oil cracking, has been successfully developed and formulated in solar ...

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