



Lao oil refinery uses 60kWh solar-powered container

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The study explores the feasibility of incorporating solar, wind, and biomass energy sources alongside the existing Natural Gas Combined Cycle (NGCC) power plant and grid ...

The paper has presented a noble solution that will allow the integration of parabolic trough collectors into oil refinery facilities by reducing the use of crude oil heaters.

Solar and wind energy are emerging as viable options to power refinery operations, reducing reliance on fossil fuels and cutting ...

Thermodynamic and exergoeconomic analyses and performance assessment of a new configuration of a combined cooling ...

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

Thermodynamic and exergoeconomic analyses and performance assessment of a new configuration of a combined cooling and power generation system based on ORC-VCR

Solar and wind energy are emerging as viable options to power refinery operations, reducing reliance on fossil fuels and cutting operational costs.

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

An oil refinery case study is used to demonstrate the effectiveness of the developed model. The developed model is expected to propose an optimal renewable energy ...

In an unusual merger of renewable energy and fossil fuels, solar energy is being tapped to power an existing oil refinery.



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