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Title: Solar-powered containerized oil refineries

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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.

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.

Concentrated Solar Thermal offers a pathway to decarbonising oil refining by replacing fossil-fuelled steam with solar-powered alternatives.

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

The study investigated the feasibility of a solar hybrid system in an oil refinery. The system integrated with a sensible heat storage tank can decrease the energy required from the boiler to produce steam.

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Employing solar energy to drive crude oil refineries is one of the investigated pathways for using renewable energy sources to support lowering the carbon emissions and environmental impact of ...

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municipal solid waste-to-energy, solar steam for process heat, combined heat and power, and electrolyzers for hydrogen production at two hypothetical refineries, one located in Louisiana and the ...



**Solar-powered
refineries**

containerized

oil

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