

Solar-powered containerized type for oil refineries with grid connection

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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 ...

In an unusual merger of renewable energy and fossil fuels, solar energy is being tapped to power an existing oil refinery. The Rodeo, California, facility operated by Phillips 66 ...

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 ...

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

Oil and gas operations often occur in remote locations where grid access is limited, relying heavily on diesel generators for power. These generators are expensive, noisy, and ...

Kialashaki et al. (2016) describe a technical assessment of a "solar jack," a solar PV-powered pump with variable speed drive for extraction at three case study oil wells in the ...

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An artist's rendering of the solar array. The project is believed to be the second-largest utility scale solar

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complex in the Corpus Christi area and the first solar project in Texas ...

The goal of this research is to study the technical and economic feasibility of the integration of photovoltaic solar power systems in two of the biggest Iraqi 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 ...

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.

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