Cost-effectiveness of solar-powered containerized oil refineries with grid connection

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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 connection to ...

581 Table 4. Summary of WTW decarbonization cost for U.S. refineries (in $) achieved by combining all 582 approaches: electricity switching, steam switching, H2 switching, CCS, and crude switching to ...

Integrating solar energy with the storage and transportation of crude oil is a crucial approach to reducing energy consumption and environmental pollution. A better understanding of solar...

This analysis examines decarbonization opportunities for U.S. refineries and the cost to achieve both refinery-level and complete life-cycle CO ...

Due to the low cost of industrial rate grid electricity in Louisiana, no solar PV, wind turbines, or battery energy storage was recommended by REopt on a cost basis at the Louisiana renery.

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: Al_Qayarahand the Baiji ...

However, the higher cost of grid electricity in California, combined with a stronger solar resource, make solar PV and battery cost-effective at the case study refinery in California.

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 chemistry and concept of solar reforming, suggestions of key metrics and proposed directions to realize

solar-powered refineries for a future ...

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.

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