

Solar energy storage cabinetized hybrid type for oil refineries

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A hybrid energy system is proposed and analyzed thermodynamically with a solar heliostat field, tower, and receiver integrated to support the decarbonization of a crude oil refinery for the city ...

One of the routes to achieve this goal is sustainable hybrid energy systems involving renewable energy sources integrated with conventional energy systems.

Semantic Scholar extracted view of "Solar-assisted hybrid oil heating system for heavy refinery product storage"; by Naseer Ahmad Khan et al.

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 despatching from ...

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.

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They explored an integrated system of various components into the entire plant, included solar energy in heating applications, and evaluated the major performance parameters of a crude oil ...

ABSTRACT 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. A validated...

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