SOLAR PRO.

Plasma and Energy Storage Container Hybrid Type for Oil Refineries

This article reviews the recent research advances in the application of plasma technology for the processing of heavy oil and its model compounds. A systematic overview and comparison of ...

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.

Production, refining, and distribution of petroleum products require many different types and sizes of storage tanks. Small bolted or welded tanks might be ideal for production fields while ...

This paper evaluates the energy requirements, associated greenhouse gas emissions, and energy economics of using plasma processing technology for heavy oil upgrading in refineries by replacing ...

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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The demand for sustainable and efficient energy solutions has led to the rise of hybrid container systems, which seamlessly integrate storage and renewable energy.

Plasma-assisted oil refining is a new approach that increases the efficiency and selectivity of crude oil upgrading. Traditional refining methods are thermal and catalytic, are energy ...

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 ...

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