Single-phase photovoltaic container used in Rome oil refinery

The innovative and mobile solar container contains 200 photovoltaic modules with a maximum nominal output of 134 kWp and, thanks to the lightweight and environmentally friendly aluminum rail system, ...

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 ...

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 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.

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: ...

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.

The solar utility, optimized to collect and concentrate solar energy and/or convert solar energy to electricity or heat, can be used to drive the electrocatalytic, photoelectrochemical (PEC), or ...

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.

In the present case, a loop consists of 6 parabolic solar collectors of 100m and thus a total length of 600m. A larger number of loops means a larger collector area and a larger solar ...

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