Solar-powered mobile cabine refinery applications

Learn how Solar could incorporate CHP (Combined Heat and Power or Cogeneration) Gas Turbine in a Refinery, comparing our Titan 130 to a steam boiler and condensing steam turbine.

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 ...

The system uses an ultra-mobile, containerized solar solution to power mobile accommodation camps, traditionally powered by conventional diesel generators. Since November ...

Solar and wind energy are emerging as viable options to power refinery operations, reducing reliance on fossil fuels and cutting operational costs.

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...

In the proposed hybrid heating system, the yearly solar fraction is determined to be 26.99% and the payback period is 8.77 years with the average solar irradiance of 900 W/m2. In addition, the system ...

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.

Owing to the simultaneous applications of solar heat, solar electricity, and the relevant chemical reactions, the system can significantly improve solar utilization efficiency, the cracking rate ...

Our collaboration with Pure Power, a key stakeholder experienced in PVsyst, allowed us to leverage this expertise to generate reliable solar energy models tailored for refinery applications.

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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 despatching from ...

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