

Refinery uses 30kWh of photovoltaic containerized electricity from Rome

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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.

By integrating novel combination methods into traditional crude oil heating systems, a versatile and efficient crude oil heating system has been formed. The system was implemented in a refinery...

Malta develops, implements, and operates an innovative, utility-scale Pumped Heat Energy Storage (PHES) plant that, when coupled with photovoltaic (PV) solar energy generation, can reshape solar ...

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

The large amount of power used by refineries drastically exposes the sector to fluctuations in energy prices and increasing environmental regulations. On-site renewables can play a strategic ...

On an industrial scale, one can visualize a solar refinery (see Figure 1) that converts readily available sources of carbon and hydrogen, in the form of CO₂ and water, to useful fuels, ...

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.

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