Off-grid solar-powered containerized smart oil refinery

The applicability and feasibility of introducing a concentrated solar power (CSP) system to reduce partial reliance on process heaters of a crude oil refinery was studied by Danish et al.

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.

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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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.

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Nuevo Sistema Propio, que mejora la calidad y homogeneización del Petróleo Crudo, previo al ingreso a las torres de destilación atmosférica (Topping Unit).- "CONNECTED" Refinery.

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