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With the particular emphasis put on introducing green electricity into the high-temperature processes, this document offers the means of doing so by decarbonizing oil refineries.

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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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.

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.

They concluded that solar thermal-based or supplemented steam systems for oil recovery appear to be a preferred choice, or complement, to completely conventional natural gas-based ...

High-Temperature Resistant Solar Container for Oil Refineries in Jakarta

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