



MODERNIZATION SOLAR

350kW Smart Photovoltaic Energy Storage Container for Oil Refineries





Overview

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. A validated ASPEN HYSYS model w.

Can solar energy systems decarbonize oil refineries?

Other studies in the literature considered coupling solar energy systems to oil refineries to decarbonize their operation. 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.

What is a 350 MW thermal solar receiver and heliostat field?

A 350 MW thermal solar receiver, tower, and heliostat field are designed for a case study in Yanbu, KSA (24.1° N, 38.1° E), an industrial site relevant to crude oil refining.

Can solar catalytic chemical looping Biomass Refinery produce high purity hydrogen?

A techno-economic analysis of solar catalytic chemical looping biomass refinery for sustainable production of high purity hydrogen. Energy Convers. Manage. 243, 114341 (2021) Mohammed, S.A.; Al-Azawiey, S.S.; Ali, A.H.: Treatment of organic compounds resulting from oil refineries under solar light and reuse it for industrial purpose.

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350kW Smart Photovoltaic Energy Storage Container for Oil Refiner



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Intech Energy Container

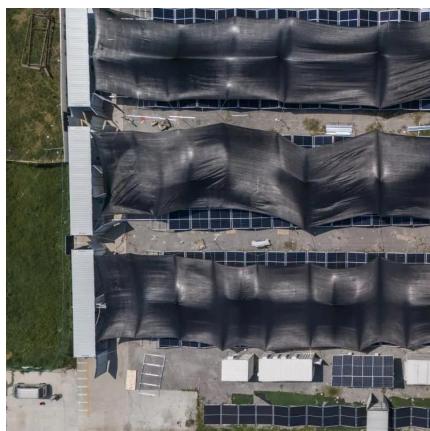
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