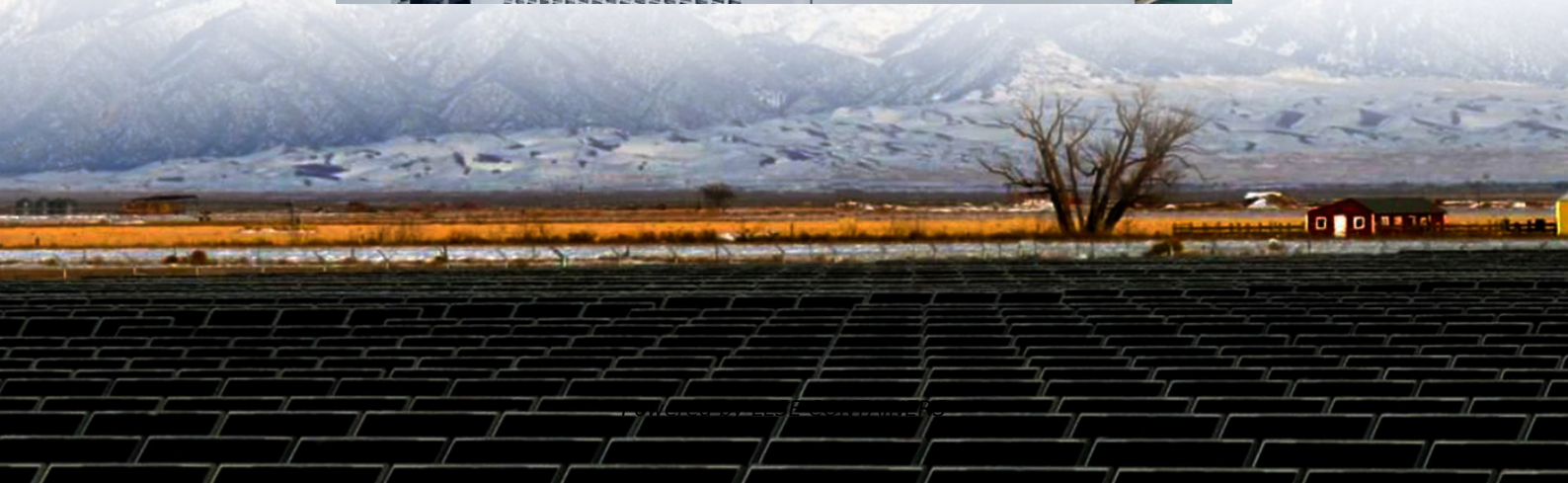


# Payment Method for 120kW Photovoltaic Container Used in Oil Refineries





## Overview

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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.

Can solar-assisted petrochemical refineries greenize oil refineries?

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.

Can solar energy be used in oil refineries?

Hydrogen is a significant raw material in petrochemical hydrogenation process (e.g., hydrocracking, hydrotreating), whereas steam has multiple uses within a refinery. Other studies on solar-thermal-assisted refineries are summarized here as follows. In Absi Halabi et al. , the application of solar energy in the oil industry is reviewed.

Can a solar heliostat field support a crude oil refinery decarbonization?

A hybrid energy system is proposed and analyzed thermodynamically with a solar heliostat field, tower, and receiver integrated to support the decarbonization of a crude oil refinery for the city of Yanbu, Saudi Arabia, as a case study. The solar plant was optimized, and the contour plot for the heliostat field is simulated.



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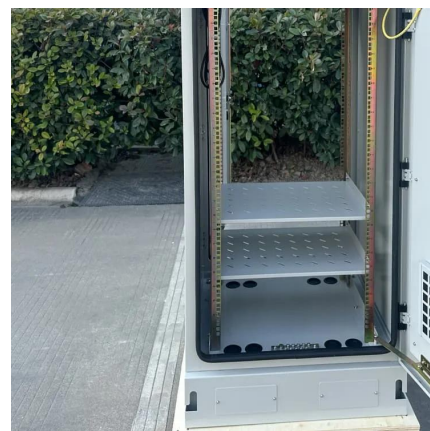
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