

# **Montenegrin oil refinery uses photovoltaic containers for bidirectional charging**





## Overview

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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. A validated ASPEN HYSYS model w.

What are the different types of energy transformation in Montenegro?

One of the most important types of transformation for the energy system is the refining of crude oil into oil products, such as the fuels that power automobiles, ships and planes. No data for Montenegro for 2022. Another important form of transformation is the generation of electricity.

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 the energy development strategy of Montenegro?

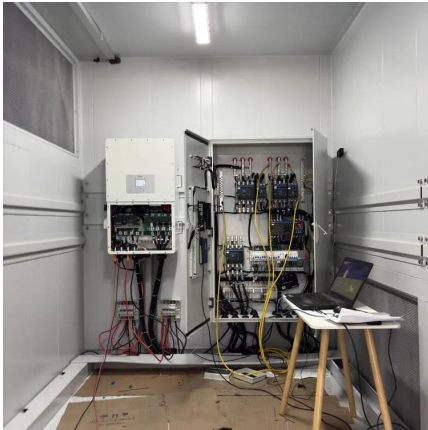
The Energy Development Strategy of Montenegro sets out objectives and defines mechanisms for the transition from the current energy system to a safe, competitive and environmentally acceptable energy paradigm by 2025. It also provides guidelines for.

Can solar energy drive crude oil refineries?

Employing solar energy to drive crude oil refineries is one of the investigated pathways for using renewable energy sources to support lowering the carbon emissions and environmental impact of operating the processing of fossil-based fuels.



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### [Montenegro's Jugopetrol to install PV panels on fuel stations](#)

June 19 (SeeNews) - Montenegrin oil products distributor Jugopetrol [MNG:JGPK] said it plans to install photovoltaic panels on the rooftops of seven fuel stations in 2025, aiming to cut ...

### [Analysis and assessment of using an integrated solar energy ...](#)

Aug 1, 2019 · In large crude oil refineries, keeping emission levels low and minimizing energy losses can primarily be controlled by performing thermo-economic and environmental ...



### [Analysis of a Solar-Assisted Crude Oil Refinery System](#)

Jun 6, 2024 · With the growing urge to decarbonize the energy sector, actions toward reducing emissions of the oil and gas sector can contribute to bringing large cuts to carbon emissions. ...

### [Solar oil refinery: Solar-driven hybrid chemical cracking of ...](#)

Jan 15, 2024 · Herein, a solar multi-energies-driven hybrid chemical oil refining system, exemplified by residual oil cracking, has been successfully developed and formulated in solar ...





### Planning and Optimisation of Renewable Energy Systems for ...

Nov 12, 2024 · Given the urgency to transition to low carbon future, oil refineries need to identify feasible strategies for decarbonisation. One way to address this is by integrating renewable ...



### Solar-assisted hybrid oil heating system for heavy refinery ...

Sep 1, 2023 · The purpose of this study is to evaluate the proposed hybrid heating system for heavier refinery products in the storage tank, coupled with TES. Moreover, the study presents ...



### **Solar Refinery**

2 days ago · 1. description The purpose of a solar refinery is to enable an energy transition from today's 'fossil fuel economy' with its associated risks of climate change caused by CO 2 ...



## From challenge to opportunity: Enhancing oil refinery plants ...

Apr 1, 2024 · This significantly enhances the economic viability and environmental sustainability of the oil refinery plant, contributing valuable insights into the optimal configuration of hybrid ...



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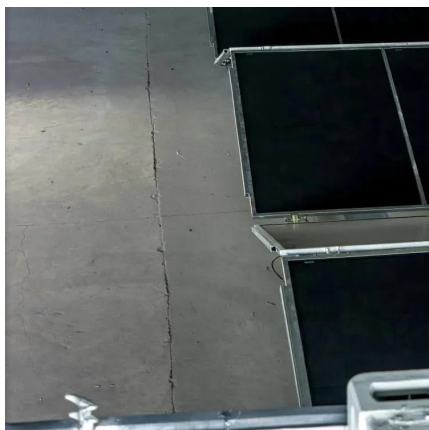
## **Montenegro**

Dec 5, 2025 · Oil refining One of the most important types of transformation for the energy system is the refining of crude oil into oil products, such as the fuels that power automobiles, ships and ...



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Mar 17, 2025 · The Montenegrin transmission system operator has so far signed seven contracts on building grid connection infrastructure, and ...





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