



Iranian oil refinery uses 100kW solar-powered container

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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.

Why did Iran add a crude oil distillation unit?

Iran added a 210,000-b/d crude oil distillation unit to its existing Abadan refinery in March 2023 to be able to eventually replace one of the older units and alleviate some of the demand for lighter oil products. Operations will continue at the old unit at Abadan while sanctions remain in place.

Will Iran refinery capacity expand by 45 KB/d in 2024?

23 Facts Global Energy, Iran Alert, "Isfahan refinery capacity to expand by 45 kb/d in 2024," November 16, 2023. 24 Facts Global Energy, Iran's Oil and Gas Annual Report 2023, (December 2023), page 60.

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. .

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The study explores the feasibility of incorporating solar, wind, and biomass energy sources alongside the existing Natural Gas Combined Cycle (NGCC) power plant and grid ...

Iran has set ambitious targets to enhance its renewable energy capacity. aiming to reach 20 GW of total renewable capacity by 2027 and ...

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