
Syrian oil refinery uses ultra-large capacity solar-powered containers

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.

Can a TRNSYS solar heating system be used in a refinery?

Using TRNSYS software, the proposed Parabolic Trough Collector (PTC)-based solar heating system paired with the boiler is modelled. Sensible thermal energy storage (TES) system is integrated into the refinery's process heating to handle the intermittent nature of solar energy.

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. .

How much oil did Syria import from Iraq?

Furthermore, Syria imported an estimated 120,000 barrels of crude oil per day from Iraq. The cooperation between Iran and Syria was also expressed in agreements to build a new refinery in the Homs area, capable of producing approximately 140,000 barrels per day, and in the renovation of the refinery in Banias.

The present study investigates the feasibility of solar hybrid system to generate steam in the oil refinery to maintain the temperature of heavy crude oil products before ...

Syria's largest refinery expects to secure oil feedstock shortly amid ongoing efforts to conclude supply contracts, Banias Refinery Co.'s general manager told Energy Intelligence.

Syria's largest oil refinery, the Baniyas refinery, has ceased operations after it stopped receiving crude oil from Iran, its primary supplier for nearly a decade.

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 ...

Syria resumed fuel shipments from its largest refinery, Banias, for the first time in over six months on June 16, its authorities announced, in a sign of further normalization for the ...

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. ...

Syria's largest oil refinery has halted operations after ceasing to receive the crude from Iran that previously made up the vast majority of the country's input, its general manager told the ...

SEATTLE (Oil Monster): Baniyas oil refinery- the largest oil refinery in Syria, announced that it has halted operations following stoppage of crude supply from Iran, which ...

The American "Caesar Act" (2020), which expanded the circle of sanctions, further strengthened these sanctions. As a result, international companies halted their operations in ...

