
Collaboration on 80kWh of Foldable Containers for Oil Refineries

How important is decarbonisation of oil refineries?

The oil refinery sector stands as one of the major consumers of energy and contributes significantly to GHG emissions (Nurdiawati and Urban 2022). Most refineries generate their energy on-site, using energy systems fuelled by fossil fuels. The decarbonisation of refineries is, therefore, vital for addressing its emissions concerns.

Can a refinery be used for co-processing?

Existing units can be converted for co-processing, or standalone refineries can be purpose-built. The primary feedstock for refineries is crude oil, useful for its complex mix of chemical compounds that produce high energy density products such as gasoline, diesel and lubricants.

Can oil refineries redefine their narrative?

As global industries are urged to adopt more sustainable practices, oil refineries, often considered energy-intensive and environmentally burdensome, have the potential to redefine their narrative through innovative energy solutions.

Why do we choose an oil refinery plant as a case study?

By emphasizing the rationale behind selecting an oil refinery plant as the case study, the aim is to highlight the broader implications of the findings for enhancing the efficiency, sustainability, and resilience of energy systems in dynamic operational environments. 2. Materials and methods 2.1. The refinery and its location

Indonesia is utilizing modular oil refineries to enhance its domestic petroleum supply and decrease its reliance on imports. With an ...

In an oil market where capital prudence, emissions scrutiny and demand uncertainty now eclipse economies of scale, modular refineries offer a repeatable playbook: ...

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LZY mobile solar systems integrate foldable, high-efficiency panels into standard shipping containers to generate electricity through rapid deployment generating 20-200 kWp ...

In particular, the viability of foldable containers as an instrument of carbon offsetting for the shipping industry is explored. A shadow pricing approach has been adopted to predict ...

Enabling AI and data-led refineries Against the backdrop of ongoing research into primary refining processes, GlobalData has ...

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KBR, Financial). This collaboration involves the engineering, procurement, and construction of 17 modular oil refineries. This pivotal deal marks a significant step within a U.S. ...

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