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Title: German oil refinery uses 15kW photovoltaic container

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What is Germany's oil refinery output?

Germany's gross refinery output of 106.5 million tonnes is the highest in the EU. According to the Federal Statistical Office, 16,967 people were directly employed in oil processing in 2015. Most of the refineries are owned by foreign multinational energy companies.

Why is photovoltaic expansion important in Germany?

Germany is leaving the age of fossil fuel behind. In building a sustainable energy future, photovoltaics is going to have an important role. The following summary consists of the most recent facts, figures and findings and shall assist in forming an overall assessment of the photovoltaic expansion in Germany.

Who owns Germany's oil refineries?

Most of the refineries are owned by foreign multinational energy companies. In addition to the refining of crude oil, most of which is imported, into petroleum products, finished products are also traded internationally. Almost 37.7 million tonnes were imported into Germany and about 22 million tonnes exported in 2016.

Can solar hybrid system generate steam in oil refinery?

**Conclusion** 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 despatching from storage tanks. Due to the intermittent behaviour of solar energy, the solar hybrid system is integrated with a sensible heat storage tank.

In an unusual merger of renewable energy and fossil fuels, solar energy is being tapped to power an existing oil refinery.

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 ...

Our analysis goes beyond theory, focusing on the practicality of implementing a hybrid renewable energy system in the complex operational dynamics of an oil refinery, where ...

The Solarfold photovoltaic container can be used anywhere and is characterized by its flexible and lightweight substructure. The semi-automatic electric drive brings the mobile photovoltaic ...

Petroleum is processed in Germany at 13 refineries with a crude oil refining capacity of 104.4 million tonnes. Germany's gross refinery output of 106.5 million tonnes is the highest in the EU.

Solarfold allows you to generate electricity where it's needed, and where it pays to do so. The innovative and mobile solar container contains 196 PV modules with a maximum nominal ...

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This paper proposes a solar-assisted method for a petrochemical refinery, considering hydrogen production deployed in Yanbu, Saudi Arabia, as a case study to ...

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This study aims a techno-economic analysis of a plant that produces methanol by hydrogenating carbon dioxide in the waste gas from an oil refinery using the electricity from ...

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Each container is equipped with a photovoltaic array, a battery bank, and a generator -- all custom-sized to meet the specific needs of the customer. With integrated remote monitoring ...

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