



BUHLE POWER

High-voltage solar-powered container for airport use in Saudi Arabia





Overview

Why is Saudi Arabia interested in solar energy?

Saudi Arabia, the epicenter of global oil industry, has been showing keen interest in solar energy in recent years. Saudi Arabia has one of the world's highest solar irradiation in the world, estimated at approximately 2,200 thermal kWh of solar radiation per m².

Is concentrated solar power a viable option for Saudi Arabia?

In addition to solar PV, concentrated solar power (CSP) is an interesting option for Saudi Arabia due to its strong dependence on desalination plants to meet its water requirement. Waste heat of a CSP plant can be used to power seawater desalination projects.

What are the major solar projects in Riyadh?

Looking ahead, several major solar projects are in the planning stages, such as Al-Sadawi Independent Power Producer Solar Power Plant, set to have a capacity of 2,000 MW. Sudair Solar PV Project has a planned capacity of 1,500 MW in Riyadh.

What are the environmental benefits of Saudi Arabia's solar energy push?

The environmental benefits of Saudi Arabia's push for solar energy are significant. Salvador calculates that generating 4 TWh of energy from solar could potentially avoid 2.8 million tons of CO₂ emissions annually, equivalent to the greenhouse gas emissions from approximately 6.5 million barrels of oil.



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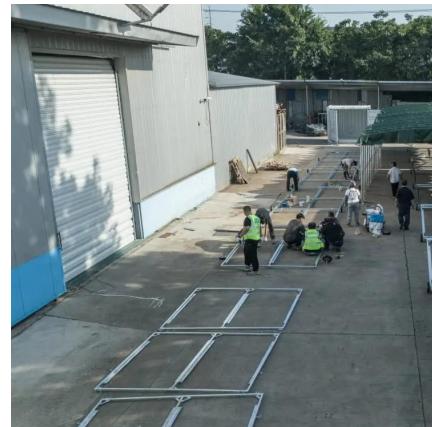
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