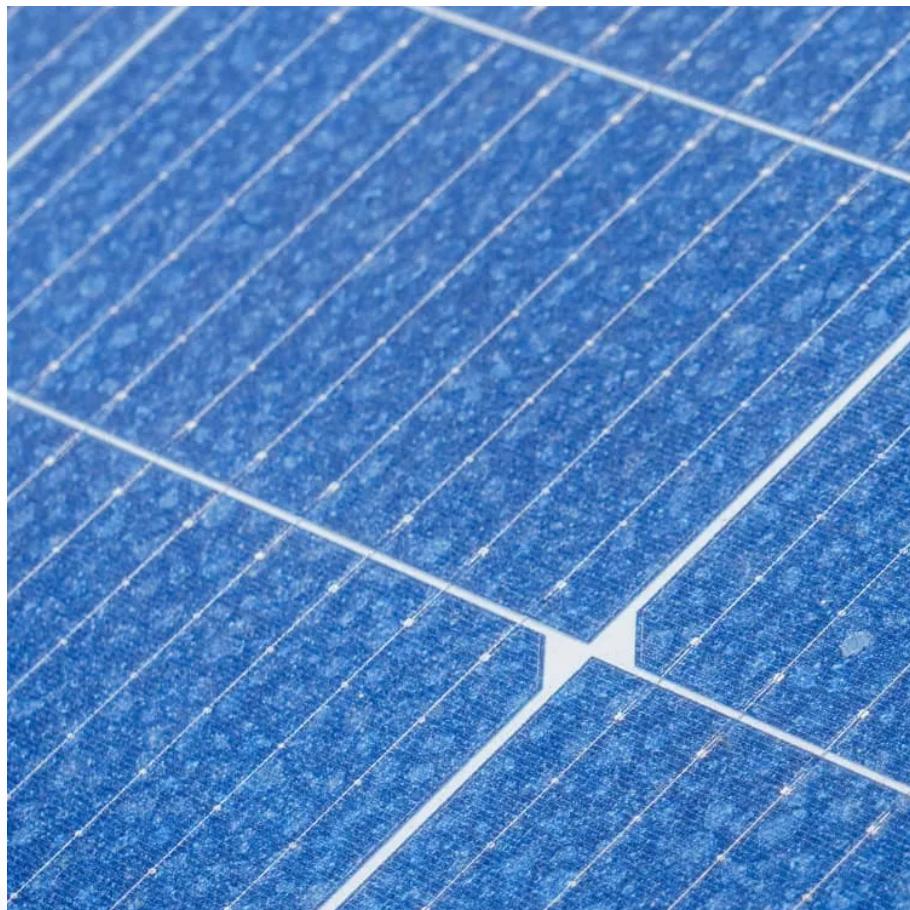




BUHLE POWER

Benin's main solar modules for export





Overview

Is solar energy a viable investment in Benin?

Based on Benin's estimated grid emission factor and the electricity available for grid export, about 8170 tonnes of CO₂ emissions could be saved every year after installation. Investing in utility-scale solar PV systems can be more economically viable with government support and infrastructure development.

How can government support the development of solar PV systems in Benin?

Investing in utility-scale solar PV systems can be more economically viable with government support and infrastructure development. In addition, government support for capacity building in solar PV technologies (from design to production, utilising local resources) can expedite the commercialisation of solar PV technologies in Benin.

Does Benin have solar power?

Despite the country's abundant solar resources, only 8.0 MW of solar capacity had been installed by 2017 (Mensah et al., 2022). The cities in the northern parts of Benin have the highest solar energy potential. However, these cities have the lowest access rates to electricity (Odou et al., 2020).

How much does a photovoltaic power plant cost in Benin?

Photovoltaic power plants' levelized cost of energy ranges from 0.11 USD/kWh to 0.125 USD/kWh. Incentives and subsidies could lower the levelized cost of energy and increase solar photovoltaic investment in Benin. About 60.0% of Benin's population currently lacks access to reliable electricity to perform their daily activities.



Benin's main solar modules for export

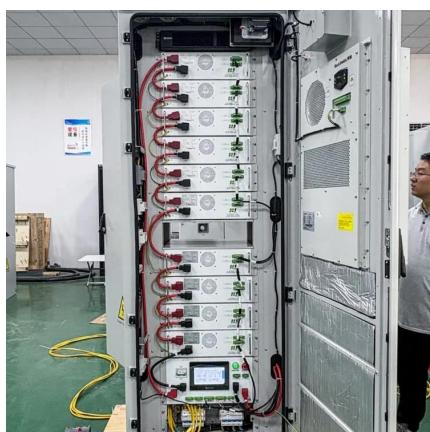


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