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Solar power generation at Sudan base stations





Overview

Can solar energy be used in Sudan?

Research and projects on solar energy in Sudan have primarily concentrated on solar PV systems, with relatively limited focus on solar thermal energy. Nevertheless, there are some studies that have explored power generation using CSP technologies.

What is the energy supply in Sudan?

The energy supply in Sudan is primarily derived from crude oil, hydroelectricity, biomass, and renewable energy sources such as wind, solar, and geothermal energy. As illustrated in Figure 2a, biomass is the largest contributor, accounting for 52% of Sudan's total energy consumption.

Should Sudan transition to alternative energy sources?

However, with current consumption rates, these resources are projected to be depleted within the next 20 years, making the transition to alternative energy sources essential. Sudan possesses significant renewable energy potential across various resources, including hydro, solar, wind, biomass, and geothermal energy.

Is nuclear energy a potential source of energy in Sudan?

This initiative was informed by an energy forecasting study conducted with the assistance of the IAEA under the Technical Cooperation Project SUD/0/008, which aimed to determine Sudan's optimal energy generation mix up to 2030, including nuclear energy as a potential source .



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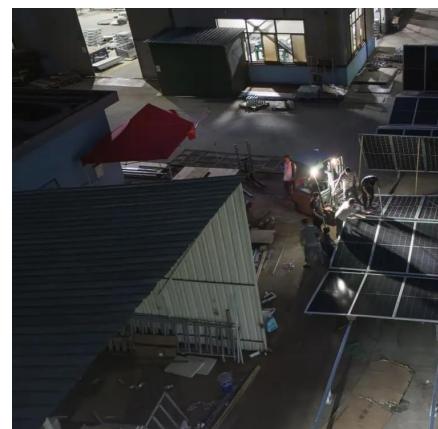


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