
Solar power storage solutions in Sudan

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.

Is biomass a viable source of energy in Sudan?

Biomass--primarily derived from corn and sugarcane--serves as another critical energy source, poised to play a significant role in Sudan's energy mix. Furthermore, nearly half of Sudan's land area holds strong potential for wind energy development, positioning it as a viable contributor to future energy infrastructure.

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.

The adoption of renewable energy is crucial for both developed and developing countries to address environmental challenges, reduce dependency on fossil fuels, and achieve sustainable development goals ...

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