

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.

How much solar power will Sudan have by 2035?

Plans are underway to deploy 1200 solar pumps in West and North Kordofan. By 2035, the government also plans to establish 190 MW of solar PV home systems, 400 MW of solar pumping, 250 MW of rooftop PV systems, and 27 MW of PV-diesel hybrid systems. In wind energy, Sudan aims to achieve a total installed capacity of 1550 MW by 2035.

Is Sudan a good country for solar power?

As one of the 148 Sunbelt countries near the equator, Sudan benefits from excellent solar radiation metrics, making it highly suitable for electricity generation using photovoltaic (PV) systems or concentrating solar power (CSP) technologies.

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Hybrid systems, which integrate renewable energy with traditional grids or backup systems, play a pivotal role in enhancing energy reliability [18, 19]. These systems can efficiently support both on-grid ...

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