



Small solar power generation system in Sudan





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.

What can Solar do for Sudanese communities?

We design, install and maintain solar systems that empower Sudanese communities and businesses. Reliable off-grid systems for hospitals and clinics; powering critical equipment, lighting and vaccine fridges. Solar water pumping and irrigation for farms; solar cooling for storage; reliable power for agro-processing.

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.



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[The Future of Solar Energy in Sudan: Opportunities and ...](#)

This section illustrates and explains the different solar system configurations methods, including grid-connected solar systems, solar micro-grid, and standalone system connected to customer.

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Renewable Energy in Sudan: Current Status and Future Prospects

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[\(PDF\) Study on Solar Potential in Sudan](#)

With the implementation of appropriate policies and regulatory framework, Sudan can foster solar energy and eradicate the need for people to burn fuel and wood for power ...

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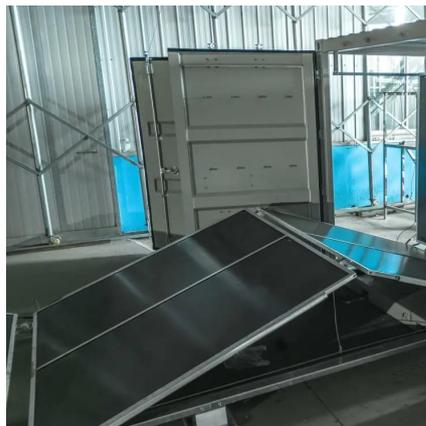
[Solar for agriculture: Empowering farmers](#)



[in Sudan](#)

Coupled with lower costs from fuel savings, around 960 litres (\$108) of subsidised diesel per acre per season, and minimal solar-system maintenance, the response from ...

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[Local Solar Manufacturing in Sudan: Powering Agriculture](#)

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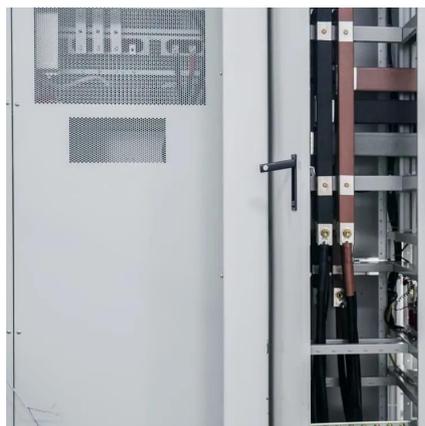


UTILITY



Al Fashir solar plant is the first of its kind in Sudan and marks a milestone for the Sudan renewable energy and power industries. There are numerous lessons learned from this project ...

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