



# Sudan outdoor solar power hub

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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.

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.

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.

Who owns a solar farm in South Sudan?

The solar farm will have an attached battery energy storage system rated at 35MWh. The off-taker is the South Sudanese Ministry of Electricity, Dams, Irrigation and Water Resources, represented by South Sudan Electricity Corporation, the national electric utility parastatal company.

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Sudan - Solar (PV) Powered Pumping System (Desert-to-Power Initiative) - IPR July 2025

Discover practical, cost-effective outdoor power solutions tailored for South Sudan's challenging environment. This guide explores reliable energy alternatives for humanitarian operations, ...

Discover El Barkal's solar energy solutions tailored for Sudan. We provide comprehensive systems, including consultation, installation, and support, addressing blackouts and high costs.



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The ASCENT-Sudan project, spearheaded by the African Centre for a Green Economy, is a transformative initiative aiming to electrify 150 off-grid communities across Sudan.

Discover how a \$1M UNDP and Japan initiative is bringing solar-powered water stations and lighting to Sudan, supporting over 8,600 people affected by conflict.

"Sudan is endowed with abundant resources, particularly solar energy, yet we have only scratched the surface of our potential," Al-Rikabi notes. The country's solar energy potential is ...

Sudan's rural regions face acute challenges in energy access, exacerbated by ongoing conflict that has destroyed major power infrastructure and crippled conventional electricity generation.

This project serves as a model for other homes across Sudan, whether in cities like Omdurman or more isolated communities such as Al-Fashir. The system's flexibility allows it to ...

There are plans to build new generation stations and to import electricity from neighboring Ethiopia, Sudan and Uganda, but the civil war has hindered progress in that direction.

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