

# **Which solar energy system is best in Sudan**





## Overview

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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.

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 .

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.

Who supports a solar guide in Sudan?

The Guide is also supported by 249Startups, Haggar Group, The Sudanese Researchers Foundation, and leading solar companies in Sudan: Tekno Consultancy, Empower Renewable Energy, Al Rasikh Solar, Navitas Engineering & Contracting Solutions, SDC for Solar Energy Solutions, Votec Engineering, Maaz Innovation, and Ak Solar Pro.



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### SUDAN: PROMOTING SOLAR PHOTOVOLTAIC SYSTEMS

Feb 28, 2024 · THE GEF SOLAR PHOTOVOLTAIC PROJECT In 2000, the Global Environment Facility (GEF) launched a project to create a sustainable techni-cal, institutional, and financial ...

### Determination of the optimal solar photovoltaic (PV) system for Sudan

Sep 15, 2020 · The identified optimal solar PV system was then simulated operating in 21 diverse locations in Sudan to discover which location would most efficiently yield the best amount of ...



### ANALYSIS OF SOLAR RADIATION IN SUDAN AND ...

Dec 12, 2022 · In term of solar energy Sudan is regarded as one of the best countries for exploiting it. As indicated in Table 1 and Fig. 1, the daily sunshine duration ranges from 8.5 to ...



### Introducing the "Guide to Solar Energy in Sudan"

Mar 31, 2022 · A technical guide for solar energy systems in homes and farms (in a simplified language), which includes: energy conservation & efficiency, how to select appropriate ...



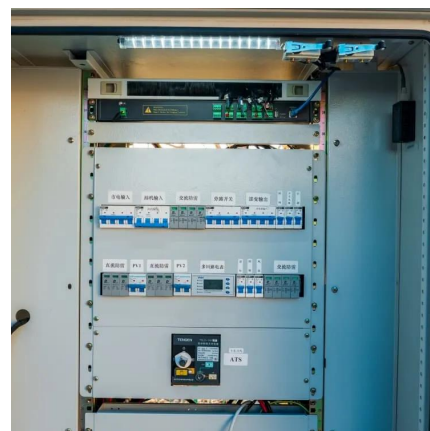
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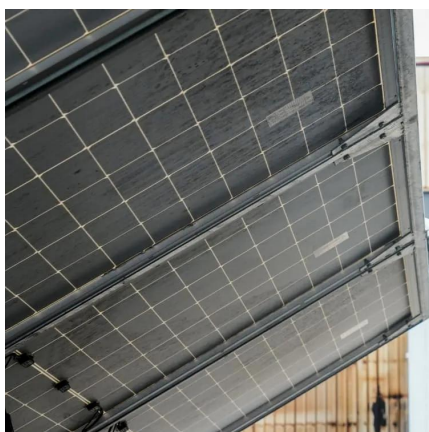
### The Future of Solar Energy in Sudan: Opportunities and ...

Mar 15, 2025 · This article highlights the potential applications of solar energy and its role in enhancing economic development in Sudan. Empirical data gathered from various focus group ...



### Determination of the optimal solar photovoltaic (PV) system for Sudan

The objectives of this research were firstly to investigate the best solar photovoltaic technology available, using HOMER software. The second objective was to determine the best location for ...

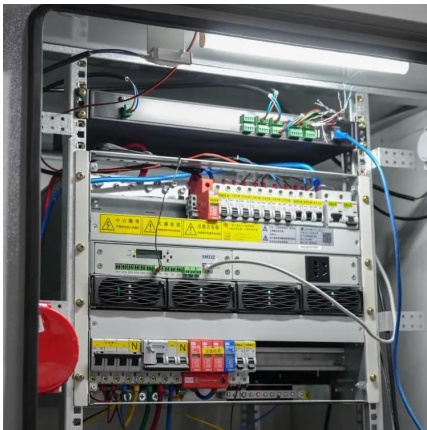






## [An analysis of Sudan's energy sector and its renewable energy ...](#)

Feb 14, 2023 · The article highlights energy policies in other African countries that Sudan could adopt to expand RE generation. The analysis reveals promising indicators of Sudan's ability to ...



## [Sudan solar and generator hybrid systems](#)

Which type of solar PV system is best for Sudan? Studer VarioTrack VT-65with Generic PV. The utilization of a solar PV system will avoid the production of approximately 27 million kg/year of ...

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