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# 500MW of solar energy in Khartoum





## Overview

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Is Khartoum a good place to invest in solar energy?

The capital, Khartoum, has also garnered significant attention for future solar energy projects due to its high solar potential and its status as the city with the highest urbanization rate. Ismail and Hashim observed that a 5-kW PV solar system installed in a residential home in Khartoum could generate 20.71 MWh annually.

Will solar power meet Khartoum's electricity demand by 2030?

Ahmed et al. projected that installing 4-kW rooftop PV systems in 420500 homes could meet the city's entire electricity demand by 2030. Taha designed a 25-kW solar-powered farm to meet the annual demand for 66,000 kg of Yellow Potato and 79200 heads of Rocket Arugula for Al-Anfal Supermarket in Khartoum.

How much energy does Khartoum produce a year?

The capital city, Khartoum, produces approximately 7 million tons of combustible and putrescible (wet organic) waste annually, with the potential to generate 64212 TJ of energy .

Can solar thermal energy be used in Sudan?

Beyond power generation, several studies have assessed the feasibility of using solar thermal energy for domestic applications in Sudan, including water distillation [172 - 174], crops drying , and water heating .



## 500MW of solar energy in Khartoum



### [Concentrating solar thermal power ...](#)

Jun 1, 2022 · Concentrating solar power (CSP) technologies are proven renewable energy (RE) systems to generate electricity in neighboring ...

### [Renewable Energy in Sudan: Current Status ...](#)

The capital, Khartoum, has also garnered significant attention for future solar energy projects due to its high solar potential [127] and its status as the ...



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### [Aktina Solar Power Project, Wharton County, ...](#)

Jul 8, 2021 · Aktina Solar Power Project The Aktina project is a 500MW photovoltaic (PV) solar power facility under construction in Wharton ...



### [The potential for rooftop solar photovoltaics to meet future](#)

Jul 1, 2022 · Many sub-Saharan African cities, such as Khartoum - the capital of Sudan, suffer from frequent power outage due to insufficient power capacity. However, the electricity ...



### [Dominion Energy Proposes 500MW of New ...](#)

Nov 4, 2020 · Dominion Energy has submitted proposals for nine new solar projects in Virginia with a combined capacity of nearly 500MW as the ...



### [Khartoum Solar Power Project](#)

Aug 15, 2025 · Articles and Resources Additional data To access additional data, including an interactive map of global solar farms, a downloadable dataset, and summary data, please visit ...



## [Zimbabwe Tenders for 500MW Solar Power Plants in Renewable Energy ...](#)

May 18, 2020 · Zimbabwe's state power transmission company has invited bids for the construction of 500 megawatts (MW) of solar power plants as part of a drive to increase its use

...

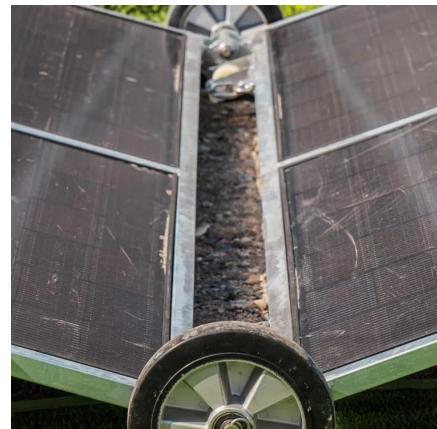


## [Khartoum Solar Power Project , WattsUp Africa](#)

Jul 1, 2025 · A solar renewable energy project with a capacity of 10 MW. Located in Khartoum, Sudan. Current status: shelved - inferred 2 y.

## [The potential for rooftop solar photovoltaics ...](#)

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## [Concentrating solar thermal power generation in Sudan: ...](#)

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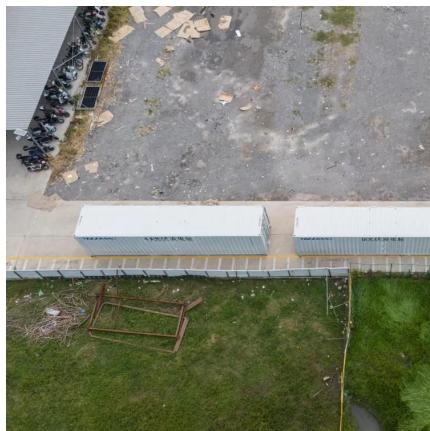
### [WBS Power forms JV with Prime Capital to develop 500MW ...](#)

Dec 4, 2025 · European renewable energy developer WBS Power has established a joint venture with Prime Capital to construct a 500MW hyperscale data center at a former military airfield in ...



### [Germany Roundup: 500MW BESS and Data Centre ...](#)

4 days ago · WBS Power sells solar-plus-storage project, plans data centre; Alpiq secures 370MW Germany pipeline; Shell and EQT companies agree Germany BESS toll.



### [Tunisia awards over 500MW of solar capacity ...](#)

Dec 31, 2024 · Tunisia has announced the winners of tenders for over 500MW of solar capacity, including Qair International and Voltalia.



### [UK-Iraq Solar Energy Partnership Advances ...](#)

Jun 20, 2025 · Iraq's Minister of Electricity, Ziyad Ali Fadhil, met with UK Ambassador Irfan Siddiq and a high-level delegation to discuss British ...



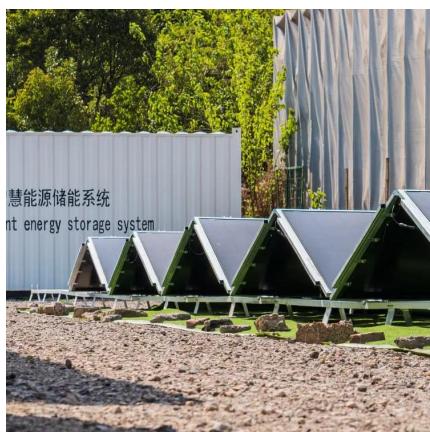
## Renewable Energy in Sudan: Current Status and Future ...

The capital, Khartoum, has also garnered significant attention for future solar energy projects due to its high solar potential [127] and its status as the city with the highest urbanization rate [159].



## Cost to Build a Solar Factory in Khartoum: 20-50 MW Model

Oct 21, 2025 · Thinking of investing in Sudan's solar market? Get a complete cost breakdown for a 20-50 MW solar module factory in Khartoum, from land to operations.



## Khartoum fangxi energy storage power station

They play a crucial role in balancing supply and demand in the khartoum new energy storage project bidding Bidding took place last week in a reverse auction to contract for ...



## Solar PV Analysis of Khartoum, Sudan

Seasonal solar PV output for Latitude: 15.5006544, Longitude: 32.5598994 (Khartoum, Sudan), based on our analysis of 8760 hourly intervals of solar and meteorological data (one whole ...



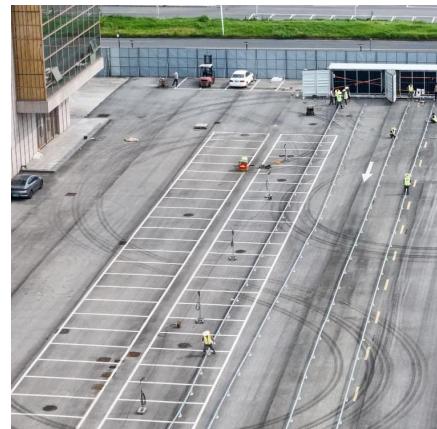
### [Trina Solar Partners With Al-Raebi for the Supply of 500MW Solar](#)

Apr 10, 2023 · Trina Solar, a leading provider of solar energy solutions, has signed a 5-year partnership agreement with Al-Raebi for Trading (Al-Raebi) to supply 500MW of module ...



### [Trinasolar collaborates with Energy China ...](#)

Dec 23, 2024 · Developed by AMEA Power, the Abydos Solar PV Project is a transformative expansion of the existing 500MW Abydos Solar PV power ...



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