

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 power improve energy harvesting in Khartoum?

Taha designed a 25-kW solar-powered farm to meet the annual demand for 66,000 kg of Yellow Potato and 79,200 heads of Rocket Arugula for Al-Anfal Supermarket in Khartoum. Ahmed, Demirci, and Tercan further reported that incorporating solar tracking systems into 22-32 kW PV systems in Khartoum could improve energy harvesting by 50%.

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

Ahmed et al. projected that installing 4-kW rooftop PV systems in 420,500 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 79,200 heads of Rocket Arugula for Al-Anfal Supermarket in Khartoum.

Is the electricity sector in Sudan in a crisis?

Over the last few years, the electricity sector in Sudan has been in a state of crisis: 60 per cent of the Sudanese population have been living without electricity. What is the path forward to an urgent, sustainable, and feasible solution?

Gross electricity generation from renewable sources by 2023, TWh (%) Hydropower 11.50 (97.9) Bioenergy 0.11 (0.9) Solar PV energy 0.14 (1.2)

Sudan relies heavily on refined petroleum products for electricity generation, excluding hydropower, contributing to environmental degradation through petroleum combustion. This challenge ...

Summary: The national grid has experienced a significant decrease in electricity demand since the conflict, with Khartoum and Gazira, which previously accounted for 75% of the demand, ...

The Citizen / Minister of Energy, Engineer Al-Mutasim Ibrahim Ahmed, directed the directors of electricity companies to work on increasing electricity generation to meet the growing demand in ...

Amidst these challenges, efforts to optimize power generation plants have emerged as crucial strategies to reduce fuel consumption and minimize environmental impact. This study delves ...

Electricity sector experts have warned that Khartoum was on the verge of a total power blackout due to the ongoing war.

Nearly \$100m is the budget required to purchase no fewer than 14,000 transformers and restore the transmission lines between Khartoum's substations. At the end of September, the ...

Supply Shortages Reflect the Urban-Rural Divide: Disparities in electricity supply between cities and remote areas reflect persistent political exclusion. Greater Khartoum benefits from ...

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On Feb 9, 2026 Khartoum - Sudanhorizon The Minister of Energy, Engineer Al-Mu"tasim Ibrahim Ahmed, has instructed directors of electricity companies to double electricity generation so ...

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