

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.

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.

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.

How many geothermal projects are planned in Sudan?

However, 54 MW of geothermal projects are planned by 2030. Additionally, Sudan's nuclear energy program targets two 600-MW reactors by 2030, while tidal energy projects could contribute 1.2 TWh annually to the grid. These initiatives aim to diversify Sudan's energy mix and enhance the country's sustainability.

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.

How much did the UN invest in solar power in Sudan?

The United Nations Development Programme (UNDP), the Korean International Cooperation Agency (KOICA), the African Development Bank, and the Global Environment Facility collectively invested a total of \$12 million for the installation of 1919 solar pumps across Sudan.

Feb 1, 2022 – These recommendations hover around the issuance of country-level PV energy policies and are categorized into financial, policy, social, and technical.

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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].

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