Compact power solutions Sudan

What is power in Sudan?

Power in Sudan Sudan is a country with immense renewable energy potential,possessing a high hydropowerpotential based totally on its location on the river Nile and other watersheds,a high wind speed mainly in its northern and western region,and high solar radiation throughout the country.

Will Sudan face an energy problem in the future?

In December 2014,the United Nations Development Programme (UNDP) warned that Sudan could face an energy problem in the future,if it does not set up alternative power solutions,mainly because of the rapid growth in energy demand .

Why is solar energy important in Sudan?

Solar energy is highly attractive as a primary renewable energy source that can contribute immensely to increasing energy accessin Sudan. The location of Sudan as part of sub-Saharan Africa enriches the solar potential. The average temperature ranges from 28 to 39°C.

Does Sudan have a problem with electricity supply?

Sudan is currently facing a major problemwith electricity supply. According to the report " Tracking SDG 7: The Energy Progress Report (2021) ",only 54% of the population in Sudan have access to electricity; this indicates more than 20 million people aren't connected to the national electricity grid .

Does Sudan have a low electricity access rate?

Even though the energy access rate is low; Sudan is making progress in electrification with annual growth over more than 3 percentage points after 2010; more than 70% of Sudan's population was lacking access to electricity at that time . Table 1 below represents statistical facts about Sudan's electricity access rate from (2000 - 2019).

What is the average solar insolation in Sudan?

The average solar insolation is 6.1 kWh/m2/day,indicating a high potential for solar energy use . The Northern State has been considered as one of the best parts of Sudan for exploiting solar energy. The climate in the Northern state is a typical desert where rain is infrequent and annual.

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Speaking today at the virtual launch of a UNDP report, Empowering Sudan: Renewable energy addressing

poverty & development, the Acting Minister highlighted the report"s suggested policies and actions, which ...

The study used techno-economic analysis for two of the most mature CSP technologies - solar power tower (SPT) and parabolic trough (PT) technology - to produce electricity in Sudan. Two commercial CSP plants, ...

There are numerous types of renewable energy technologies that Sudan has large potential in, including hydropower, wind power, and solar power. Hydropower generation is the largest in terms of generation.

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