

Kongres Container

Sudan outdoor solar panels



Overview

Why should you choose a solar energy system in Sudan?

We focus on underserved and conflict-affected regions across Sudan, striving to foster long-term growth and stability. Tailored solar energy systems provide reliable power, reduce electricity costs, and promote environmental sustainability, designed for homeowners seeking stable and independent energy solutions.

Which solar energy options are available in Sudan?

In Sudan, three solar energy options are available: 1. Solar PV energy: 1000 MW (on- and off-grid) will be applicable in different states within Sudan. 2. Solar CSP technology: 100 MW (grid connected) will be applicable, especially in the northern part of Sudan. 3. Waste to Energy: 80 MW (grid connected) will be applicable in several intended sites.

What is the solar energy potential of Sudan?

The African Development Bank (AFDB) has another project in the west and north Kordofan states. Sudan possesses a relatively high amount of solar energy, the annual global horizontal irradiation (GHI) varies between 2118-2483 kWh/m²/year [7]. Sudan photovoltaic electricity potential is shown in Fig. 1.

Will Sudan scale up solar power projects?

Sudan is also contemplating scaling up projects on solar power in the coming years. Most of Sudan's electricity generation comes from hydropower, and more than half of the Eastern African region's total oil-based capacity is located in the country. Sudan is also contemplating scaling up projects on solar power in the coming years.

Can South Sudan generate solar power?

South Sudan's rural electrification plans include large-scale solar thermal and

small-scale solar photovoltaic power generation given its access to an average of more than 10 hours of sunshine per day year round, with radiation on the horizontal surface of about 5 – 6 kWh/m²/day.

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