

Sudan solar container communication station hybrid energy is placed indoors





Overview

Does Sudan have solar power?

While hydropower generates approximately 54.6% of Sudan's electricity, other renewable sources contribute only 0.78% to the national grid. Sudan's hydropower capacity stands at 1907 MW, with plans to add 2197 MW. As a Sunbelt country, Sudan has immense solar energy potential, yet it has only constructed a 10-MW solar PV plant (5 MW on-grid).

Should Sudan transition to alternative energy sources?

However, with current consumption rates, these resources are projected to be depleted within the next 20 years, making the transition to alternative energy sources essential. Sudan possesses significant renewable energy potential across various resources, including hydro, solar, wind, biomass, and geothermal energy.

What is the energy supply in Sudan?

The energy supply in Sudan is primarily derived from crude oil, hydroelectricity, biomass, and renewable energy sources such as wind, solar, and geothermal energy. As illustrated in Figure 2a, biomass is the largest contributor, accounting for 52% of Sudan's total energy consumption.

How much of Sudan's electricity is derived from hydropower?

While 54.6% of the country's electricity is derived from hydropower, other renewable sources collectively contribute a mere 0.78% to the national grid. To address this disparity, collaborative efforts between public and private sectors are imperative to advance renewable energy development and utilization in Sudan.



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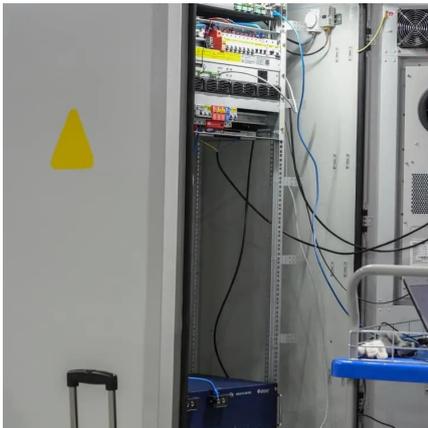
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