

SolarInnovate Energy Solutions

South Sudan Electrochemical Energy Storage System Project



Overview

What is a solar power plant in South Sudan?

Image: The recently launched 20MW solar energy plant in South Sudan.

Credit: Ezra Group A public-private partnership in South Sudan has launched the country's first major solar power plant and Battery Energy Storage System (BESS) in the capital Juba, where it is expected to provide electricity to thousands of homes.

Where does Sudan's electricity come from?

About half of Sudan's electricity comes from burning fuel and half from hydropower. This year the government reduced subsidies for higher energy consumption levels as part of economic reforms monitored by the International Monetary Fund.

Why is South Sudan struggling to provide electricity to its citizens?

According to a 2024 sciencedirect.com report, South Sudan struggles to provide its citizens access to electricity despite having abundant energy resources, particularly fossil fuels.

Why is SSEC a success in South Sudan?

The success of this project is largely due to the strategic collaboration with key partners, including the South Sudan Electricity Corporation (SSEC) and the Ministry of Energy and Dams, which oversee electricity generation, transmission, and distribution across the country.

How much power can a 20MW solar plant produce in Juba?

The 20MW solar plant can generate sufficient power to supply electricity to up to 16,000 households in Juba, significantly reducing energy costs and bolstering grid reliability, said the project's developer.

Why is Juba launching a 20MW solar project?

The project contributes not only to the country's environmental targets but also to improving energy accessibility and affordability for local communities. The 20MW solar facility is capable of supplying power to approximately 16,000 households in Juba, offering a significant reduction in energy prices and enhancing grid stability.

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South Sudan: First major solar energy, BESS plant launched

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