

# South Sudan 30 kW solar power generation





## Overview

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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. Does South Sudan have a large-scale solar power project?

South Sudan has taken a significant step toward renewable energy with the launch of its first large-scale solar power project. The Ezra Group, a prominent business conglomerate, has successfully developed and financed a 20-megawatt (MW) solar power plant, complemented by a 14-megawatt-hour (MWh) Battery Energy Storage System (BESS).

Why should South Sudan invest in solar power?

By investing in solar power and battery storage technology, the country is making a decisive move toward energy independence, economic growth, and a sustainable future for its people. South Sudan has taken a significant step toward renewable energy with the launch of its first large-scale solar power project.

Can solar power solve energy poverty in South Sudan?

Because South Sudan is still in the beginning stages of their infrastructural development, there is a rare opportunity to move forward and address the issue of energy poverty by building sustainable models of electrification, like solar power, without having to dismantle an already existing energy foundation.

How does South Sudan produce energy?

Most of the country's current energy production comes from generators that burn imported diesel, a costly method both economically and environmentally. According to the World Bank, only 8.4% of the population had reliable access to power and electricity in 2022, leaving the door wide open to produce much-needed renewable energy in South Sudan.



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### Solar Project Brings Power to South Sudan

Jan 28, 2025 · Insights: South Sudan's solar-BESS project is designed to address its status as one of the least electrified countries globally. The initiative is expected to significantly expand ...

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### South Sudan's Milestone in Renewable ...

Feb 12, 2025 · South Sudan has taken a significant step toward renewable energy with the launch of its first large-scale solar power project. The ...

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### South Sudan: First major solar energy, BESS ...

Jan 27, 2025 · South Sudan Electricity Corporation (SSEC) and Ministry of Energy and Dams: These regulatory bodies oversee the generation, ...

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### Sudd Green Energy

Sudd Green Energy (SGE) aims to revolutionize the way rural communities and individuals in South Sudan achieve energy independence through sustainable solar energy, solar hydro ...

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### South Sudan Renewable Energy Potentials

Solar PV Systems South Sudan is endowed with high solar PV potential boasting more than 10 hours of daily sunshine - approximately solar ...

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### Pv solar power plant South Sudan

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 ...

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### South Sudan: First major solar energy, BESS plant launched

Jan 27, 2025 · South Sudan Electricity Corporation (SSEC) and Ministry of Energy and Dams: These regulatory bodies oversee the generation, transmission and distribution of electricity in ...

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### South Sudan Renewable Energy Potentials

Solar PV Systems South Sudan is endowed with high solar PV potential boasting more than 10 hours of daily sunshine - approximately solar radiation of 5.5 - 6.0 Kwh/m<sup>2</sup> /day year-round. ...

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### South Sudan 30 kW solar power generation

Concentrating solar thermal power generation in Sudan: Concentrating solar thermal power generation in Sudan: potential and challenges Ahmed Gamil a,\* , Sudan lost three-quarters of ...

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### A Bright Future for Renewable Energy in South Sudan

Dec 4, 2024 · Furthermore, in 2016, ApTech Africa marked a significant milestone in increasing renewable energy in South Sudan by commissioning photovoltaic (PV) systems for teaching ...

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### South Sudan's Milestone in Renewable Energy: First Major Solar ...

Feb 12, 2025 · South Sudan has taken a significant step toward renewable energy with the launch of its first large-scale solar power project. The Ezra Group, a prominent business ...

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### ENERGY PROFILE South Sudan

Indicators of renewable resource potential Solar PV: Solar resource potential has been divided into seven classes, each representing a range of annual PV output per unit of capacity ...

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### South Sudan launches solar energy

Jan 28, 2025 · Partnerships driving progress The success of this project is largely due to the strategic collaboration with key partners, including the South Sudan Electricity Corporation ...

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