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# Juba solar Power Generation System





## 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. 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.

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.

Does jedco need a solar plant?

The solar plant is set to contribute 19% of the total energy distributed by JEDCO, complementing existing thermal power plants. However, to ensure reliability and long-term sustainability, additional renewable energy sources, such as the government-owned Nisitu Solar Plant, will be crucial in supplementing the thermal output, said the Group.

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.



## Juba solar Power Generation System



### [Ministry targets 3000MW solar plant to combat pollution](#)

Jan 21, 2025 · By Kei Emmanuel Duku Ministry of Environment and Forestry welcomes the launch of a 20-megawatt solar power plant and 14-megawatt-hour battery system in Juba. Joseph

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### [Aptech Africa successfully installs a solar power plant in Juba...](#)

Sep 21, 2023 · On average, the solar system has been generating between 90 MWh and 120 MWh of power per day. As a result, the 26 MW solar power plant has successfully reduced the ...



### [Aptech Africa completes installation of a 26MW solar power ...](#)

Aug 29, 2023 · This power plant is now benefiting the entire city by reducing power interruptions and lowering the cost of energy per unit for consumers. This system will provide much needed ...

### [South Sudan launches first solar plant with battery storage](#)

Feb 5, 2025 · Ezra Group, a South Sudanese family-run conglomerate, last month announced the launch of South Sudan's first major renewable energy project. The 20 MW solar PV



plant, ...



### [Feasibility study of a standalone hybrid energy system to ...](#)

Jul 1, 2022 · Until recently, only a few small standalone solar photovoltaic installations have been installed in South Sudan, mostly in urban areas to power radio stations and water pumps. One ...



### [South Sudan shifts to clean energy as Ezra Group launches a ...](#)

Jan 27, 2025 · Ezra Group launches a 20-megawatt solar power plant and a 14-megawatt-hour Battery Energy Storage System in South Sudan. The project developed and run by the Ezra ...



### [Investigation challenges facing the integration of the 33 MW ...](#)

Jul 22, 2025 · Investigation challenges facing the integration of the 33 MW Ezra diesel power plant and two 20 MW solar photovoltaic (PV) generation into the distribution system in Juba city



## Solar park of 20 MW plus battery opens in South Sudan

Jan 27, 2025 · The solar plant will account for 19% of the total energy distributed by Juba Electricity Distribution Company (JEDCO), a public-private partnership between Ezra Group ...



## 10.11648.j.epes.20200903.12

Sep 3, 2020 · This study explored the available electricity generation options in Juba, quantified the off-grid electricity, and assessed the electricity market system dynamics through a survey ...

## South Sudan 30 kW solar power generation

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## [South Sudan: First major solar energy, BESS plant launched](#)

Jan 27, 2025 · 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 ...



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