



MODERNIZATION SOLAR

# Juba distributed energy storage inquiry





## Overview

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Who distributes electricity in Juba?

The Juba Electricity Distribution Company (JEDCO), a public-private partnership between Ezra Group and SSEC, is responsible for distributing electricity to the public in Juba. JEDCO receives bulk energy from Ezra Construction & Development Group and distributes it across the region.

How will a 20 MW solar plant benefit Juba?

The 20 MW solar plant will generate enough electricity to power approximately 16,000 households in Juba. It will also enhance grid stability and reduce energy costs for consumers.

How many energy meters will be installed in Juba?

In the existing supply centers, 40 km of 33/11 kV line, 70 km of 11 kV line, 60 transformer stations (10 of 33/11 kV and 50 of 11/0.415/0.230 kV transformers), 130 km of 0.415/0.230 kV line, and 22,000 pre-paid energy meters will be installed (Juba, Malakal and Wau). (Interviewee 2 & ).

Where does jedco get its energy?

JEDCO receives bulk energy from Ezra Construction & Development Group and distributes it across the region. The new solar plant now accounts for 19% of JEDCO's total electricity distribution, complementing existing thermal power plants.



## Juba distributed energy storage inquiry



### [Comprehensive review of energy storage systems ...](#)

Jul 1, 2024 · Battery, flywheel energy storage, super capacitor, and superconducting magnetic energy storage are technically feasible for use in distribution networks. With an energy density ...

### [Juba latest energy storage policy news video](#)

The Juba Power Distribution System Rehabilitation and Expansion Project is the Bank's first energy operation in South Sudan and follows years of conflict in the country.



### [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

### [Juba Solar Cell Energy Storage Enterprise](#)

5 days ago · 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 ...



## Overview and Prospect of distributed energy storage ...

Then, it introduces the energy storage technologies represented by the "ubiquitous power Internet of things" in the new stage of power industry, such as virtual power plant, smart micro grid and ...



## **Strategic options for building a new electricity grid in South ...**

Mar 1, 2024 · This article presents a case study of the struggles of South Sudan, the newest country to develop a new electricity grid, and the strategic choices it faces in a post-conflict ...



## IMPLEMENTATION PROGRESS AND RESULTS REPORT (IPR)

Nov 27, 2025 · B. Results reporting and assessment Progress towards development objective (project purpose) he Results-based Logframe) and assess progr To satisfy electricity demand ...



## Review on distributed energy storage systems for utility ...

Oct 22, 2025 · Abstract: Energy storage systems (ESSs) can improve the grid's power quality, flexibility and reliability by providing grid support functions. This paper presents a review of ...



## Ezra Group Launches 20 MW Solar Power

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Feb 10, 2025 · The Juba Electricity Distribution Company (JEDCO), a public-private partnership between Ezra Group and SSEC, is responsible for

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## 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 ...



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

Jan 27, 2025 · A public-private partnership in South Sudan has launched the country's first major solar power plant and Battery Energy Storage ...



## Juba electric energy storage charging pile developer

Hierarchical energy storage configuration method for pure electric Aiming at short-term high charging power, low load rate and other problems in the fast charging station for pure electric ...



## South Sudan energy storage and distribution

Republic of South Sudan DILSS is involved in the procurement of a wide range of petroleum products including Jet A1, gasoil, gasoline, and Lubricants from major international oil markets,

...



## Investigation challenges facing the integration of the 33 MW ...

Jun 4, 2025 · Solar photovoltaic (PV) generation is significant in sustainability and transitioning from diesel to clean energy. Integrating solar photovoltaic (PV) generation into the distributed

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## South Sudan Distributed Solar Power Generation System

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 ...



## South Sudan shifts to clean energy as Ezra ...

Jan 27, 2025 · The South Sudan's solar power project reportedly marks a milestone in Juba's transition to sustainable power. The Ezra Group, a ...



## Investigation challenges facing the ...

Jul 22, 2025 · Investigation challenges facing the integration of the 33 MW Ezra diesel power plant and two 20 MW solar photovoltaic (PV) ...



## Ezra Group Launches 20 MW Solar Power Project With 14 ...

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## South Sudan shifts to clean energy as Ezra Group launches a ...

Jan 27, 2025 · The South Sudan's solar power project reportedly marks a milestone in Juba's transition to sustainable power. The Ezra Group, a leading business conglomerate, announced ...



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

Jan 27, 2025 · 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 ...

## Juba Energy Storage Technology

Juba Solar Power Station The Juba Solar Power Station is a proposed 20 MW (27,000 hp) solar power plant in South Sudan. The solar farm is under development by a consortium comprising

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## Solar park of 20 MW plus battery opens in ...

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



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