

Juba Rural Solar Power Generation System





Overview

How will a 20MW solar plant benefit Juba?

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. The BESS will store energy from the solar plant, providing on-demand power, stabilizing the grid, and ensuring consistent renewable energy reliability.

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.

Are hybrid energy systems a viable option for remote locations in Africa?

Numerous studies on hybrid energy systems have been conducted using the HOMER tool for various remote locations in Africa. The majority of earlier studies on rural hybrid energy systems were primarily focused on technical, economic, and feasibility studies.



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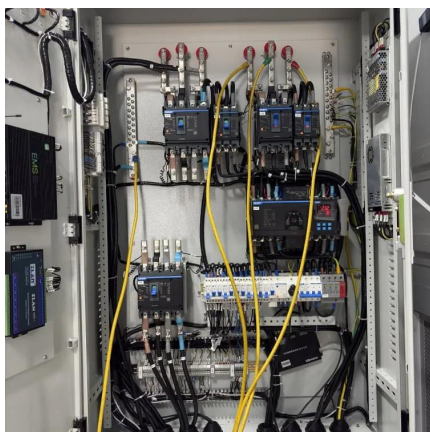
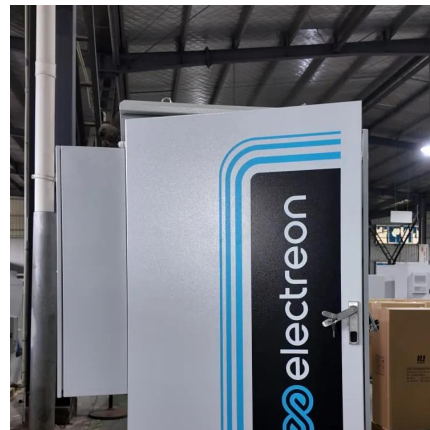


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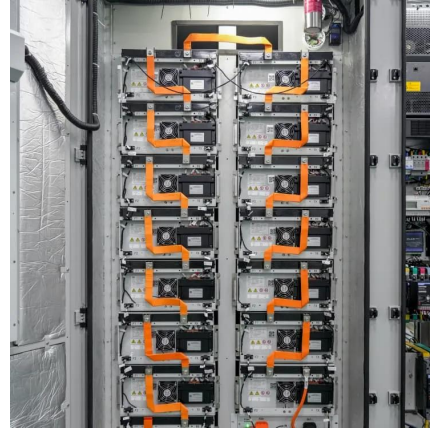
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to an average of more than 10 hours of ...

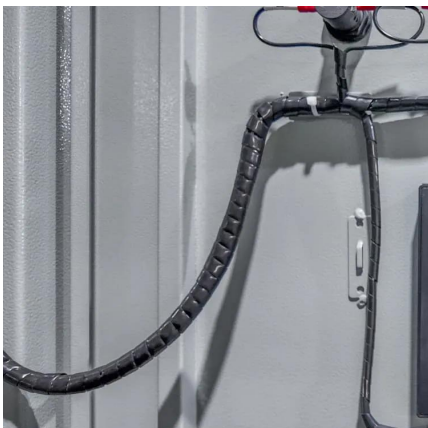


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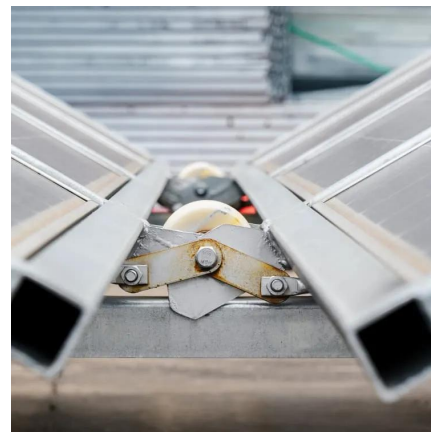


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