



SolarTech Power Solutions

South Sudan Outdoor Power Supply



Overview

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. What is South Sudan's role as a power utility?

Its role as a power utility is expected to intensify as programmes to increase electricity access in South Sudan are implemented. It is proposed under the Electricity Bill 2015 as the regulatory entity for the electricity sector in South Sudan. It would function as the energy regulator whose functions would include the creation of regulations.

Does South Sudan have electricity?

As a result, the majority of the nation's electricity is produced by thermal sources, and supply is only available in a few urban centers, notably the capital Juba, Wau, and Malakal. Compared to neighboring countries, South Sudan has the lowest access to electricity (% of population) with only 7.7 % as of 2021 .

Is biomass a source of electricity in South Sudan?

Traditional biomass – the burning of charcoal, crop waste, and other organic matter – is not included. This can be an important source in lower-income settings. South Sudan: How much of the country's electricity comes from nuclear power?

Nuclear power – alongside renewables – is a low-carbon source of electricity.

What is the grid-based electricity situation in South Sudan?

At present, the grid-based electricity situation in South Sudan is characterized by routine power outages and lack of efficiency in the distribution system . In fact, in 2020, 580 GWh or nearly 100 % of electricity was produced from oil and gas, and just 1 GWh from renewable sources .

What are the main energy sources in South Sudan?

The most commonly-used energy sources are biomass and petroleum products. Forests, animal wastes, agricultural residues, and sugar cane are all biomass resources in South Sudan. The country's reliance on oil pervades all aspects of the economy, accounting for roughly 72 % of the 700 Ktoe total primary energy supply.

Why is South Sudan struggling to get electricity?

Despite having an abundance of energy resources, particularly fossil fuels, South Sudan struggles to give its citizens access to electricity. The long period of historical neglect of the region by the Sudanese government before independence and the recent conflict, is the primary cause of the current energy challenges.

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