

## SolarTech Power Solutions

# South Sudan mobile power station power generation



## Overview

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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 situation. In addition to the energy tri.

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 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.

What is the demand for electricity in South Sudan?

There is also significant demand for electricity in the rural areas with only about 1 % of the population connected to the grid. According to recent projections, in the long term, the demand for electricity in South Sudan could grow to 1400 MW by 2030.

Does South Sudan have a decentralized power system?

Most decentralized power systems in South Sudan are operated by private companies, NGOs and humanitarian organizations in South Sudan. In assessing the capacity of the off-grid electricity in terms of Megawatt (MW), the kVA rating of the generators and the power factor were taken into consideration.

How many South Sudanese have access to electricity?

According to the study, only 5.4% of the South Sudanese population have

access to electricity, slightly higher than the access rate of 4.2% reported in 2017.

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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