

A-Core Container

South Sudan Station Communication Base Station Hybrid Energy



Overview

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 the future of electricity in South Sudan?

According to recent projections, in the long term, the demand for electricity in South Sudan could grow to 1400 MW by 2030. In sum, the fundamental challenge for South Sudan is to build new public service infrastructure and refurbish depleted water, energy, transportation, and communication systems.

Does South Sudan need a 33 kV distribution network?

South Sudan Electricity Corporation plans to install a 33 kV distribution network to increase network capacity, allowing it to supply more customers, including those located far from generation centers, while also reducing network losses.

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.

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.

Does South Sudan have a real energy infrastructure?

The situation in South Sudan, the world's newest country, is unique. It does not have any real existing energy infrastructure.

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