

## PDEOZE PowerContainer

# South Sudan Power Generation Kilowatt Exchange Station



## Overview

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What is the energy access rate in South Sudan?

South Sudan has one of the lowest energy access rates in Sub-Saharan Africa and in the world. While 46 percent of Sub-Saharan Africa's population now has access to electricity, the energy access rate in South Sudan is estimated to be only 5.3 percent based on recent World Bank-funded primary research.

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 .

How does South Sudan import electricity from Sudan?

South Sudan imports a small amount of electricity from Sudan through a 32 MW/220 kV interconnector in Upper Nile State that distributes power to local customers through the Renk substation, but the supply from this line has been unreliable due to the power shortage in Sudan.

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.

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.

How much electricity does Sudan have in 2021?

Transmission and distribution of electricity is limited, particularly in the rural areas in western Sudan.<sup>12</sup> Although power generation has continued to grow in the post-independence era, only about 62% of Sudan's population had access to electricity in 2021, according to the latest estimates from the World Bank.

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