



## South Sudan power group

Will South Sudan benefit from Ethiopia's diversified off-grid power system?

As a member of the Eastern Africa Power Pool - a collaborative effort by 13 east African countries to interconnect their power grids and facilitate efficient trade of electricity among its member states - South Sudan will benefit from co-member Ethiopia's diversified, off-grid power systems.

What is the South Sudanese electricity corporation (SSEC)?

The SSEC was established in 2012 under the Ministry of Energy and Mining of South Sudan, following the split from Sudan and gaining independence the year before. At this point the country was only producing 25 MW of installed electricity generation capacity with only 1% of the country's nine-million people having access to electricity.

How many people in South Sudan have electricity?

Today, only about 1 percent of South Sudan's 12.5 million people can access the electric grid, according to the state-run utility. Many people use rooftop solar arrays or noisy, polluting diesel generators to keep the lights on; still many more are left in the dark.

Is South Sudan adding its own generation?

At the same time, the young country is adding its own generation. Late last year, Ezra Group opened a 33-megawatt oil-fired power plant, which will use scrubbers to reduce air pollution. The Eritrean firm says it plans to build 100 total megawatts of fossil fuel capacity in South Sudan by 2021, at a cost of nearly \$290 million.

Will Ethiopia provide electricity to South Sudan?

Ethiopia is currently targeting an electricity transmission and distribution capacity of more than 70,000 GW, offering scope to supply much-needed electricity to South Sudan, whose electrification rates are amongst the lowest on the African continent.

Will South Sudan build a hydropower project near Juba?

The utility is looking for investors to build a 120-megawatt hydropower project near Juba, which could cost \$490 million to construct over five years. South Sudan's government says it also plans to invest in the 1,080-megawatt Grand Fula project proposed near the Ugandan border, though how and when it would do so is unclear.

South Sudan suffers from a debilitated power network. Already lacking in capacity before independence, the national grid suffered further damages during the civil war and today is very limited in its ability to distribute power. The country has about 131.4 MW of mostly diesel-based power generation capacity.

As South Sudan emerges from the wreckage of civil war, its leaders are beginning to build the nation's electric



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sector from the ground up.

South Sudan has the lowest electricity consumption per capita in sub-Saharan Africa, due in part to its underdeveloped energy infrastructure, which has been severely impacted by decades of conflict.

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the only three isolated distribution systems in South Sudan. Per capita electricity consumption in South Sudan is about 1 to 3 kWh, compared to 80 kWh in Sub-Saharan African, and is the lowest in the region. The Power Distribution System Rehabilitation and Expansion Project (PDSRE) aims at

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The South Sudan Electricity Corporation (SSEC) is a parastatal company whose primary purpose is to generate electric power for use in South Sudan and for sale to neighboring countries.

The group employs over 700 staff in South Sudan, of which 60% are local. ECDG plays a crucial role in the electrification of the country, specifically its capital, Juba. It is the first privately owned company to sign a Power Purchase Agreement (PPA) without sovereign guarantee from the South Sudan government.

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