

Does solar energy have potential in Sudan?

According to the study, solar energy has a huge potential in Sudan for contributing to the energy sector and development of the country. However, this potential is being challenged by the country's lack of incentives and current policies.

Will South Sudan host a new grid-connected solar plant?

The capital of South Sudan is set to host a new 12 MWp grid-connected solar plant. The nation had just 1 MW of grid solar at the end of 2021, according to the International Renewable Energy Agency (IRENA), but that figure could be set to leap thanks to a project under development in Juba by Ugandan company Aptech Africa.

How can South Sudan's energy sector support peacebuilding?

One possibility for South Sudan's electricity sector is to work with the energy transition objectives of the United Nations (UN) Secretariat, which present new and unique opportunities to unlock a series of clean energy projects across the country. This approach is also a creative way to support peacebuilding.

Will South Sudan build a 12 MWp solar plant in Juba?

Kampala-based developer Aptech Africa says it plans to build a 12 MWp solar plant in Juba. The capital of South Sudan is set to host a new 12 MWp grid-connected solar plant.

How does South Sudan's energy sector affect conflict dynamics?

South Sudan's energy sector is deeply embedded in the country's conflict dynamics, from the economy's near total dependence on oil production and the accompanying patronage systems to the reliance on imported diesel for access to electricity.

Does South Sudan have a refining capacity?

Despite being an oil-producing state, South Sudan has no domestic refining capacity. Virtually all access to electricity comes from generators that rely on imported diesel. This energy dependence requires hard currency, which is a drain on the government's limited cash reserves.

Spark's Plan for African Energy 2023 is now underway, and at Spark it's set to be a bright year. Building on the company's successes and partnerships in 2022, we're looking to scale, innovate and bring more partners into our truly modular ecosystem.

This report looks at the question of electricity access in relationship to South Sudan's conflict and the unique options to help harness renewable energy as a tool for peace and development across the country.

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This report explores the potential for renewable energy to support local energy access and peacebuilding in South Sudan, the newest and least electrified country in the world, by leveraging the renewable energy transition of the UN peacekeeping mission (UNMISS) - the single largest generator and consumer of electricity in the country.

South Sudan is endowed with high solar PV potential boasting more than 10 hours of daily sunshine - approximately solar radiation of 5.5 - 6.0 Kwh/m²/day year-round. Such abundant sunshine is ubiquitous in the ten states of South Sudan and thus presents a shared clean energy future that when exploited would build a renewable-based economy ...

To tackle energy poverty in South Sudan, SunGate Solar pioneered the deployment of a solar micro-grid to provide reliable 24-hour power to off-grid communities. To test its performance as a localized power generation and distribution network, SunGate Solar installed South Sudan's first solar microgrid to deliver clean, reliable, and ...

"South Sudan receives very high levels of solar irradiation of 5.7 kWh/m²/day and a specific yield of 4.5 kWh/kWp/day indicating a very strong technical feasibility for solar in the country.⁶ "Variable Renewable Electricity (VRE) plus-storage projects are in the planning phase in South Sudan including a 20 MW

