

Is solar power a good idea for South Sudan?

He used to have to walk far, down a very steep hill to fetch water, and could only make the trip two or three times a day. South Sudan is the world's least electrified country, and solar power is a great solution. The solar-powered water systems are easy for communities to maintain, rarely break down and don't require expensive fuel supply.

How can humanitarian agencies contribute to solar energy in South Sudan?

Refugee contexts in countries such as Jordan have also led to the increased transition to solar energy through donor-led initiatives. Humanitarian agencies can also play a critical role in generating demand for solar systems in South Sudan refugee settlements, where biomass is predominantly used as energy source (Lemi & La Belle, 2020).

Are there mini-grids in South Sudan?

Several companies have developed and operate mini-grids in South Sudan, as summarised in Annex 4. Data on type, number of end users, and retail tariffs were unavailable for all companies apart from SunGate Solar.

How do solar companies work in South Sudan?

Of-grid solar companies in South Sudan focus on serving large institutions and commercial customers, who make up over 80% of their sales. They prefer serving international NGOs and aid organisations operating in the country since these organisations can readily pay, unlike households. This leaves the household market underserved.

What are the barriers to developing the solar sector in South Sudan?

Another impediment to developing the of-grid solar sector in South Sudan is the limited capacity of technicians to install, maintain and repair the solar systems (Mozersky & Kammen, 2018).

What is the South Sudan off-grid market?

Developing the of-grid products supply chain and product line The South Sudan off-grid market is dominated by non-specialised vendors and retailers who sell other products, including off-grid products. Most of the products are not quality-verified, nor do they receive any incentives to target end-users who cannot afford a one-time upfront payment.

ApTech Africa, established in South Sudan in 2011, specializes in delivering off-grid solar solutions and home energy systems tailored to meet the needs of underserved communities. By installing reliable and sustainable solar ...

Aptech Africa recently commissioned an off-grid solar system in Upper Nile State in South Sudan. The system is comprised of a 2.72 kWp solar system with a 14.4 kWh battery bank of 200Ah Soleil Power Lead

Acid AGM ...

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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 ...

A solar-powered water system in Yambio has transformed water access for children and families in the remote town. By using solar energy, the system pumps treated water from a borehole to ...

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"Variable Renewable Electricity (VRE) plus-storage projects are in the planning phase in South Sudan including a 20 MW solar park coupled with a 35 MWh storage system. 78 "In 2021, South Sudan installed a solar rooftop-diesel system for the Upper Nile University of ...

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