

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.

Is finance a barrier to developing a mini-grid supply chain in South Sudan?

The lack of access to finance was identified as a critical barrier to developing the off-grid and mini-grid supply chain in South Sudan. One of the respondents in the study reported that financial institutions charge high interest rates, up to 22%, thus making it unattractive to borrow money to expand business activities.

What is the governance of the energy sector in South Sudan?

The institutional and regulatory governance of the off-grid energy sector in South Sudan is still nascent. Table 2 below lists the major players participating in the governance of the energy industry and their positions as defined by applicable laws.

What percentage of solar lighting products are sold in South Sudan?

Over 85% of these sales have been quality-verified products primarily sold to the humanitarian sector. For the general market, an estimated 80-90% of solar lighting products are sold in Juba (Altai Consulting, 2014). Data on micro and mini-grid development in South Sudan is scarce.

The UN Sustainable Development Cooperation Framework (UNSDCF) 2023-2025 is the embodiment of this commitment. Created in collaboration with representatives of the Government, civil society (including NGOs, CSOs, academia and media), the private sector as well as development partners, it is designed to address the national priorities of today as well ...

Capgemini has 75 smart energy clients worldwide and in the field of advanced metering infrastructure alone, is responsible for seven out of ten of the world's largest implementations, is delivering smart energy projects involving 170 million ...

Solar PVs are gaining considerable acceptance because of their ability to convert sunlight directly into electric power. Nevertheless, photovoltaic-generated electricity may fail to satisfy the ever-increasing energy demand because it does not provide a consistent supply that aligns with the needs of consumers. Energy storage has recently gained importance in grid ...

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The 100% renewable energy solutions will be provided by Clear Blue Technologies, a smart off-grid energy systems company. Rik Wuts, Head of Telecom Solutions at CrossBoundary Energy, said "Digital infrastructure is a cornerstone of economic growth and an essential enabler of social progress in communities across the continent.

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A grid-tied 229.9kWp solar energy rooftop system has been designed, supplied, installed and commissioned in Juba, the capital of South Sudan. The system comprises 415 panels of 550Wp with inverters of 100kW.

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Table 2: Current hydropower plants in Sudan Source: Study of "Sustainable Energy Potential in Sudan". Small and micro-scale hydropower and run-of-river technologies also offer significant potential. Sudan accounts for ...

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With support from Creating Hope in Conflict, a Humanitarian Grand Challenge, EarthSpark helped SunGate take a critical step towards addressing this challenge by launching South Sudan's first solar microgrid in September 2022 in Wanyjok. Now, with over nine months of successful operation, the SunGate grid is delivering reliable, affordable, 24/7 electricity to 131 ...

South Sudan's Ministry of Energy and Dams and Ezra Power in Juba have developed a thermal and solar power plant that will add 100 MW to the grid when fully completed. Project completion is expected by March 2020, ...

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LHE12D intended to measure grid parameters, e.g. active energy, reactive energy, voltage, current, power, power factor and frequency. The RS485 interface provides power monitoring data for inverters and other devices to realize fast response control.

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