

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).

Do health institutions in South Sudan have access to electricity?

About 30% of South Sudan health institutions do not have access to electricity. However, there were disparities where 15.0% of health institutions in urban areas lacked access to electricity compared to 33.2% of health institutions in rural areas reported lacking electricity access.

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.

What is South Sudan's role as a power utility?

Its role as a power utility is expected to intensify as programmes to increase electricity access in South Sudan are implemented. It is proposed under the Electricity Bill 2015 as the regulatory entity for the electricity sector in South Sudan. It would function as the energy regulator whose functions would include the creation of regulations.

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.

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 of-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.

South Sudan's GDP is about US\$ 10 billion with a population of 8.3 million. A large country of 647,095 sq km, South Sudan possesses considerable natural resources (oil and gas, hydropower, etc.). To promote growth and prosperity through efficient use of resources, the Government of Republic of South Sudan (GRSS) announced the

The Peace Accords Matrix (PAM) is home to the largest existing collection of implementation data on intrastate peace agreements. Working at the nexus between research and practice, PAM is comprised of researchers and practitioners seeking to promote and facilitate a higher order of integration between these

domains. PAM team members regularly provide ...

In this selection of articles on the Future and Implementation of the R-ARCSS in South Sudan scholars/experts including Christopher Zambakari, Remember Miamingi, Peter Adwok Nyaba and Jok Madut Jok explore the R-ARCSS and its implementation by focusing on different issues such as the delays in the implementation of the agreement, the security sector ...

In recent years, there has been a growing interest in exploring the operational mechanisms of future smart grids [1]. While many studies have focused on technological advancements to improve grid ...

Smart Grid Study: Renewable energy grid integration, Grid defense scheme and stability system, DC House for rural electrification, Wide Area Monitoring Control Distributed energy resources etc. 2.

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.

Initiative (SASGI) policy workgroup to create a national framework and to guide the national approach to smart grid implementation in South Africa. South African National Energy Development Institute 2013/05/30 3 Foreword Adequate electricity availability is a fundamental requirement for supporting South Africa's economic growth and ...

Judge et al. (2022) provided an overview of smart grid implementation, highlighting frameworks, impacts, performance, and challenges associated with enhancing grid resilience [3]. Wang et al ...

South Sudan Electricity Corporation plans to install a 33 kV distribution network to increase network capacity, allowing it to supply more customers, including those located far ...

Firstly, the partners would like to establish a private owned solar power plant and private grid in Juba, the capital of South Sudan. Secondly, they would like to start up a countrywide dealership of small stand-alone solar solutions.

in South Sudan have turned to off-grid solutions, predominantly diesel generators in urban areas and solar products in rural areas. According to the government estimate, electricity demand (including unserved demand) in South Sudan

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Publication Summary Based on interviews with various informants, this paper attempts to evaluate the implementation status of the security arrangement provisions of the Agreement on the Resolution of Conflict in South Sudan (ARCSS), as well as its future implications for the Security Sector Reforms (SSR) endeavor in South Sudan. Most of the ...

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South Sudan Electricity Corporation plans to install a 33 kV distribution network to increase network capacity, allowing it to supply more customers, including those located far from generation centers, while also reducing network losses.

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 ...

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