Sudan smart grid operations

How can Sudan achieve energy self-sufficiency?
Encouraging solar and wind power in the country's energy portfoliocould help Sudan achieve its goal of energy self-sufficiency. Egyptian policies such as nurturing and promoting renewable technologies and scientific research,feed-in tariffs,and tax exemptions could help Sudan achieve its objectives.

How can Sudan restructure its energy sector from Morocco?
One of the most useful strategies Sudan can adopt from Morocco is the use of new legislation and new policiesto restructure the energy sector. This recommended adjustment could encourage future investments targeting renewable production and attract more foreign and local investors to participate in renewable production projects.

What are the challenges facing Sudan's energy sector?
Sudan's energy sector is facing numerous challenges: persistent blackouts, an inadequate energy infrastructure, and a poor and scattered government response .

Why is energy use growing in Sudan?
Energy use is growing rapidly in Sudan. Traditional biomassprovides most of the energy needs of the local population,especially those who live in the countryside with no access to electricity.

Is Sudan's Energy Sector Sustainable?
Further, Sudan's energy sector is currently subsidised by the government. Government subsidies to the sector totalled $667 million in 2019. This represents 13.5% of total government expenditures . Financial sustainability could be achieved by introducing gradual tariff adjustments.

Can geothermal energy be exploited in Sudan?
Some of the few available studies have revealed such potential. Geothermal energy has been discovered in the Suwakin area,the Jebel Marra volcanic mountains,and other remote areas . Geothermal data collected from oil wells reveals huge potentialfor exploiting geothermal energy in many areas of Sudan.

Smart Grid 18 Smart grid domains: operations Smart grid operations require communication interface with the bulk generating facilities, transmission system, substation automation, distribution automation, DMS, consumers, and the market. Metering, recording, and controlling operations come under the purview of the smart grid operations.

Co-supplying the National Grid: An Assessment of Private Off-grid Electricity Generation in Juba-South Sudan, a 2020 study by Lemi and La Belle, states that the electrical sector is vertically integrated, with SSEC in charge of all aspects, including grid administration, transmission, distribution, tariff setting, and power purchase from IPPs ...

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About the laboratory Smart Grid Operation and Optimization Laboratory (SGOOL) led by Prof. Yonghua Song (FREng, FIEEE) was established in Department of Electrical Engineering, Tsinghua University, and College of Electrical Engineering, Zhejiang University, in 2009 and 2013 respectively, with a vision to facilitate the development of renewable energy and smart grid in ...

The integration of sensors and monitoring devices across the grid infrastructure is central to smart grid systems. These sensors continuously collect data on various parameters such as temperature, humidity, wind speed and power flow. This real-time information enables the smart grid to anticipate and respond swiftly to weather-related challenges.

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As part of African Development Bank supported project in South Sudan, 20,000 prepay meters will be supplied to new customers in the country"s capital, ... Smart Energy International is the leading authority on the smart meter, smart grid and smart energy markets, providing up-to-the-minute global news, incisive comment and professional ...

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Why Focus on Smart Grid Operations. The Smart Grid is a relatively new technological concept for the energy sector. The changes in the paradigm can be summed up very simply: Obviously, the operational needs of Non-Smart and Smart Grids are very different. Applying the systems, information, processes, staffing and skills required to run a Non ...

How Smart Grid Operations, aligned to ITIL, can enable the Smart Energy Transition. In the past, the grid was not smart. Equipment was either unmanaged or managed through highly bespoke, isolated and dedicated systems. Equipment was only able to perform the task it was deployed to do and required a manual intervention to change the ...

Issues such as interoperability, scalability, security and data privacy risks must be addressed to ensure the maximization of smart-grid potential [7]. This paper aims to explore the most recent developments in smart grid management for a better understanding of how AI, ML, IoT and optimization techniques can increase energy efficiency.

In the past few years, blockchain technology has emerged in numerous smart grid applications, enabling the

construction of systems without the need for a trusted third party.

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To put it another way, the smart grid has the ability to integrate networks and operations to enable the power grid to be smart and autonomous . In the past few years, there has been a strong push in AI research to develop effective methods for the Power Grid, the foreseeable new generation of power generation (mainly power) infrastructures ...

To this end, this article presents a comprehensive literature survey on DRL and its applications in smart grid operations. First, a detailed overview of DRL, from fundamental concepts to advanced ...

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