

How does South Sudan get its energy from unreliable sources?

Abstract: South Sudan gets most of its energy from unreliable sources such as diesel generators, fuelwood, crop residue, and charcoal, all of which emit CO<sub>2</sub>. Fuelwood and charcoal use have resulted in the loss of trees and plants, which could lead to desertification, soil erosion, global warming, and the extinction of species habitats.

How much does electricity cost in Sudan?

As for Ethiopia, Sudan imports electricity at a price of 4.5 cents/kilowatt. In August 2021, the Minister of Energy and Petroleum declared that the Sudanese energy sector needed urgent maintenance and restructuring at a cost of \$3 billion, another indicator of the dire financial needs of the sector.

Why is South Sudan facing a serious energy crisis?

South Sudan faces a serious energy crisis due to a number of factors, including devastating conflicts (e.g. 1955-1972, 1983-2005 & 2013-present) and reliance on the fossil fuel source. The country has the lowest energy consumption rate in Africa and the highest cost of producing energy (World Bank, 2016).

How can Sudan achieve energy self-sufficiency?

Encouraging solar and wind power in the country's energy portfolio could 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.

Why is energy infrastructure underdeveloped in South Sudan?

Partly due to the civil wars (e.g., 1955-1972, 1983-2005 & 2013-present), energy infrastructure remains very underdeveloped in South Sudan. Despite a peace agreement in 2015, which has been revitalized recently, conflict has impeded the country's effort in transitioning to renewable energy.

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 policies to 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.

**Energy efficiency** Problems relating to energy access in South Sudan mean that any sustainable energy policy should not only focus on generation but also efficiency, as this will lower consumption and maintain sustainability in line with societal values and the pastoralism.

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Off-grid expansion could be a major step towards increasing access to and awareness of renewable energy in South Sudan. Distributed renewable energy, or decentralized energy access, brings power directly to rural and underserved communities without relying on a centralized grid.

Nhial Tiitmamer [19], a researcher on energy and environmental issues in South Sudan and a current policy analyst for SUDD Institute, concludes that solar energy has the greatest potential to be South Sudan's immediate and most affordable energy transition path towards a sustainable energy transition and even job creation. Given that hydropower ...

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.

Abstract: South Sudan ranks the least electrified country in Sub-Saharan Africa. Reliable and affordable power supply is essential for socio-economic development. The existing electricity grid in South Sudan is in the state cities and is not capable of extending to most customers in towns and the rural areas due to its dilapidated state.

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It estimates the potential of South Sudan's renewable energy, as well as its electricity sector and potential energy efficient measures which could serve to improve quality of life.

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The aim of this policy brief is to examine the key factors delaying the development of renewable energy in South Sudan and to propose recommendations for improvement through exploitation of renewable energy resources.

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