

Why is solar energy important in South Sudan?

As characterised by ample sunshine with strong solar power potential, South Sudan remains as one of key destinations on African continent for solar energy investment. In addition to this, it has been documented that evolution of solar PV is of great significance in South Sudan.

How long does solar energy last in South Sudan?

Proponents of solar energy argue that a solar system can produce reliable electricity for about 25 years. Having recognised solar energy potential, South Sudan is expected to put more emphasis on development of solar energy sector as part of its fight against energy poverty and economic diversification.

How solar energy can transform South Sudan's economy?

A solar energy can also be transformative to South Sudan's economy. For example, solar energy is affordable, cleaner and last longer as compared to energy from diesel-powered generators because generators need diesel to burn and they also need to be replaced after few years.

Can South Sudan develop a solar power plant?

Results show that 99% of locations receive annual average global irradiation above 5.0 kWh/m<sup>2</sup>. The solar resource in South Sudan is considered favorable for the development of photovoltaic solar power plants. However, it might not be economically viable or only marginally so for concentrated solar systems.

Where is Sungate solar based in South Sudan?

In 2013, with seed funding from IEEE and clean energy investors, he founded SunGate Solar, which is headquartered in the South - Western city of Wau and has more than 30 employees with offices across the country, making it the largest solar power company in South Sudan. Mr. Riiny is married and lives with his wife and two sons in Wau.

Does South Sudan have a fight against energy poverty?

The good news is that South Sudan has already started its fight against energy poverty and one evidence for that is the ongoing construction of Nesitu 20MWp PV Solar +35MWh BESS power plant at Nesitu, Juba.

Years of violent conflict, population displacement and trade disruption have resulted in extreme levels of food insecurity in South Sudan. More than 7 million people - roughly two-thirds of the population - struggle to get enough food to meet their daily needs.

"South Sudan receives very high levels of solar irradiation of 5.7 kWh/m<sup>2</sup>/day and a specific yield of 4.5 kWh/kWp/day indicating a very strong technical feasibility for solar in the country.<sup>6</sup> "Variable Renewable Electricity (VRE) plus-storage projects are in the planning phase in South Sudan including a 20 MW



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Clean, accessible water in South Sudan means more than just hydration - it's a safeguard against disease, a key to food security, and a foundation for development. Over 41,000 people are now benefiting from these solar-powered water systems, which serve both human consumption and agricultural needs.

2.2. North Kordofan State (NKS) lies in the dry zone of central Sudan between latitudes 15-11 and 45-16 north. It is bordered by six states; Northern state from the north, Khartoum state and White Nile from the east, South Kordofan in the south, South Darfur from the south-west and North Darfur in the west.

While concluding, Legge outlines the government's vision for immunization in South Sudan, "Our goal is for every facility, even in the most remote areas, to have a cold chain equipment, protecting every child and mother from vaccine-preventable diseases and safeguarding the country's future".

South Sudan is highly dependent on oil, which provides 98% of public sector revenue, almost all foreign exchange earnings, and 60% of the total gross domestic product (GDP) (GOSS, 2011). It is projected that oil

A plane surveys animals while flying over national parks and the surrounding areas in South Sudan, Wednesday, June 19, 2024. South Sudan's most comprehensive aerial wildlife survey found about 6 million antelope. They used spotters in airplanes, analysis of nearly 60,000 photos and tracking of more than a hundred collared animals.

South Sudan is endowed with high solar PV potential boasting more than 10 hours of daily sunshine - approximately solar radiation of 5.5 - 6.0 Kwh/m<sup>2</sup> /day year-round. Such abundant sunshine is ubiquitous in the ten states of South ...

The South Sudan Environment and Social Management Framework for the Emergency Food Crisis Response Project of 2013 states that the country's wealth of biodiversity constitutes the foundation of South ...

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Sungate Solar offers reliable and sustainable solar solutions in South Sudan. Our innovative products and services provide access to clean energy, powering homes, businesses, and ...

Biome Solar Industry & BSI est une entreprise tunisienne spécialisée dans la conception, la production et l'approvisionnement de produits solaires offrant le meilleur de la technologie en matière de capteurs thermiques conçus par notre partenaire allemand KBB. Tous nos chauffe-eau solaires commercialisés présentent les performances thermiques et mécaniques exigées ...

Kuacjok, Warrap, South Sudan, situated at latitude 8.3028 and longitude 27.98, presents a promising location

for solar energy generation throughout the year. This tropical region experiences consistent sunlight and is characterized more by wet and dry seasons rather than traditional four-season cycles.

The research work presented in this paper aims at investigating solar energy resource potential in South Sudan, to help identify potential sites for future solar power plants. Radiation data for 20 ...

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Deforestation in South Sudan INTRODUCTION 1 BACKGROUND 3 Legislation, Policies and Guiding Frameworks 5 National Environmental Policy 2015-2025 5 Forest Policy 6 Land Act 6 National Adaptation Programmes of Action (NAPA) to Climate Change (2016) 7 National Biodiversity Strategy and Action Plan (2018-2027) 7 ...

Forest Resources of South Sudan South Sudan is well endowed with diverse natural forests and Woodlands which shows that out of South Sudan land area (approx. 664,000 Km<sup>2</sup>) some 208,157 Km<sup>2</sup> (33%) is covered by trees and another 257,236 Km<sup>2</sup> (40%) of land area is covered by shrubs. The combination of forest reserves, protected areas, national parks

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Specifically for South Sudan, country factsheet has been elaborated, including the information on solar resource and PV power potential country statistics, seasonal electricity generation variations, LCOE estimates and cross-correlation with ...

The Global Solar and Water Initiative team undertook a visit to South Sudan in order to assess selected existing solar pumping schemes, evaluate the feasibility to solarize water supply ...

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 ...

South Sudan is at risk to several natural hazards, including floods, droughts, and climate-related epidemics. This section provides a summary of key natural hazards and their associated socioeconomic impacts in a given country. It allows for a quick assessment of most vulnerable areas through the spatial comparison of natural hazard data with ...

South Sudan faces significant poverty-related challenges, with more than 82% of the population living in multidimensional poverty. This includes limited access to basic ...



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The Global Solar Atlas provides a summary of solar power potential and solar resources globally. It is provided by the World Bank Group as a free service to governments, developers and the general public, and allows users to quickly obtain data and carry out a simple electricity output calculation for any location covered by the solar resource database.

Solar energy has vast potential for South Sudan, but there are challenges to implementing it. How can students and others, such as technicians, learn about the context of

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