

Can solar power irrigation pumps in Sudan?

Solar panels power irrigation pumpson a farm in Northern State (UNDP Sudan/Muhanad Sameer)  
KHARTOUM (Sudanow) - Sudan was one of the first nations to understand the importance of renewable energy. In this bid,the country took good steps in early 1980s for the development of rural areas via the technologies of solar and wind energies.

Does Sudan support solar energy?

State Minister of the Ministry of Finance Dr. Mosllem Ahmed Alamir Ahmed further stated that the "The Government of Sudan is committed to expanding the application of solar energy in all sectors including agriculture , health , education and is willing to financially support the Solar for Agriculture initiative all across Sudan."

Is solar energy making a comeback in Sudan?

Fortunately,the country is now witnessing a comeback to solar energyas it is an effective tool to drive development,employment,and stability - particularly in rural and agriculture-focused communities. &quot;In Sudan,access to energy is a critical tool,and solar is an effective way to achieve this.

Are solar photovoltaic systems viable in Sudan?

Most of the attention is given to solar photovoltaic (PV) systems; no thorough techno-economic study has been carried out to evaluate the potential for CSP technologies in Sudan. The main aim of this paper is to encourage Sudan's authorities to pursue CSP technologies and overcome the associated challenges.

How much sunlight does Sudan get a day?

Sudan's location allows it to receive up to 11 hoursof direct sunlight daily,equivalent to 436-639 W/m2 of solar energy density. This equips the country with the necessary resources to leap in the renewable energy sector.

Is Sudan a Sunbelt country?

Sudan is a sunbelt countrythat has abundant solar resources and large wasteland areas,especially in the northern and western portions.



However, many places around the world, like region of Northern Sudan, have no measurement for this solar radiation component. In this study, seven new empirical models have been developed for estimation of monthly average daily diffuse solar radiation on a horizontal surface in the region of Northern Sudan.



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This paper investigated the potential and economic validity of wind and solar energy at 17 selected locations in the Red Sea state, Sudan, for the first time. To this aim, the NASA database was utilized. The results demonstrated that vertical axis wind turbines would be a good solution for electricity generation for building in the selected locations. Additionally, it is ???



UNDP and Ministry of Water Resources, Irrigation and Electricity Initiate Solar for Agriculture in Northern State. Northern State, Sudan, 26 November 2018 - UNDP Country Director Dr. Selva Ramachandran accompanied by H.E. State Minister of the Ministry of Water Resources Irrigation and Electricity Mr. Ibrahim Hamad Ali Eltom, State Minister of Ministry of ???



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Sudan is a sunbelt country that has abundant solar resources and large wasteland areas, especially in the northern and western portions. Concentrating solar power (CSP) technologies are proven renewable energy (RE) systems to generate electricity in



This study investigates the possibility of establishing monthly-specific equations for estimating global solar radiation across Sudan. Using data from 16 stations, stretching along sub-humid, semi-arid, arid and hyper-arid zones, the derived equations embrace the dependence of global solar radiation on a single or a group of parameters, namely latitude, altitude and ratio ???



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To demonstrate the potential of renewables in Sudan, a \$4.4 million Global Environmental Facility (GEF) grant allowed UNDP to trial 29 solar-pumped farms in the Sahara-encompassed Northern State. This provided two years (four seasons) of crucial data and experience for farmers before rolling out an additional 1,440 pumps by 2022.





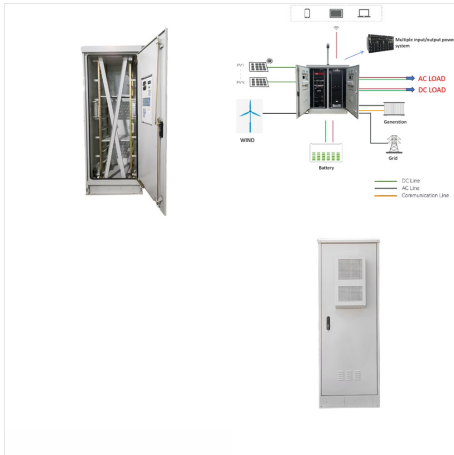
Our solar-powered irrigated agriculture pilot in Sudan's Sahara-encompassed Northern State underscored this ??? productivity and land use increased by almost 50 percent, higher value crops like



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For simulation of the daily R d in northern Sudan, Mohammed et al. [9] used the sunshine hours and solar radiation values recorded by two observation stations to establish seven new empirical



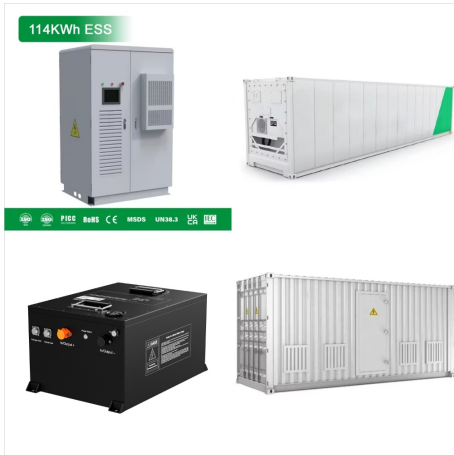
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O.W. Mohammed and G. Yanling / International Energy Journal 16 (2016) 163-172 163 Abstract ???  
Information of diffuse solar radiation at a given location is essential for study and designing solar energy systems. However, many places around the world, like region of Northern Sudan, have no measurement for this solar



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This article discussed present and future situation of solar energy; with special concern to PV technologies, in Northern State (Sudan) as an essential element for the sustainable development of the State. Also, the article identified the constraints that faced the large-scale penetration of solar energy into the energy market of the State, and draw conclusion and ???



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Sudan is a sunbelt country that has abundant solar resources and large wasteland areas, especially in the northern and western portions. Concentrating solar power (CSP) technologies are proven renewable energy (RE) systems to generate electricity in neighboring countries from solar radiation and have the potential to become cost-effective in the future.





The Future of Solar Irrigation in Sudan. The Global Environmental Facility granted 4.89 million U.S. dollars to install 1,440 solar-powered water pumps throughout the Northern State between 2016-2021. The statistics make it clear that the farmers involved in pilot programs experienced notable benefits by utilizing solar pumps.



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The article highlights energy policies in other African  
countries that Sudan could adopt to expand RE  
generation. The analysis reveals promising  
indicators of Sudan's ability to maximize its solar,  
wind, and geothermal energy ???