

In this study a comprehensive analysis for wind power in Sudan was done to verify the wind power potential in Sudan.

Finding the ideal wind turbine system and sites for exploiting wind energy in Sudan.

Different hybridization cases of solar photovoltaic, wind turbine and battery storage at 12 different sites in Sudan are simulated, evaluated, and compared, considering the crop water ...

Consequently, for the first time, the main aim of the present study is to assess the potential of wind energy as an alternative means of electricity supply in 60 selected locations ...

Wind Energy: The northeastern regions of Sudan are favorable for wind energy production due to their advantageous wind speeds. These areas offer the potential for significant wind...

A wind measurement campaign in year 2002 investigated and identified the feasibility of electrical power generation by wind energy. Subsequent wind measurements have concluded that ...

The potential for wind energy in Sudan is immense, thanks to the country's unique geographical features. Situated in the Saharan and Sahelian zones, Sudan is characterized by vast ...

This article investigates Sudan's renewable energy policies and the country's potential to maximize renewable energy production. It argues that Sudan has great potential to secure a ...

Wind energy remains underutilized, with a single 0.8-MW wind turbine connected to the grid, although a 100-MW wind power plant is under construction. The government envisions 1550 MW of wind ...

Fossil fuels account for 52% of Sudan's primary energy consumption, while hydropower contributes approximately 42%. As part of its energy strategy, the country.

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