

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 .

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.

Where can solar energy be used in Sudan?

The optimal locations found in Sudan for utilizing solar energy were Wawa, followed by Kutum, Wadi Halfa, Dongola and Al-Goled due to their low costs of electricity, high clearness index and high levels of solar radiation.

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.

What is the best solar PV system in Sudan?

The optimal solar PV was determined to be Studer VarioTrack VT-65 with generic PV. The optimal location for the employment of solar energy in Sudan is Wawa. Electricity access in Africa is a major challenge in rural areas.

Is solar energy feasible in Sudan?

Situated in the sunbelt, Sudan is one of the largest countries in Africa endowed with an extremely high solar irradiation potential. However, no work has been done in the literature with a strategic context to study specifically the feasibility of renewable energy systems in Sudan despite the abundance of solar resource.

This article examines the reality of the RE sector in Sudan and argues that diversifying the range of energy resources exploited will solve Sudan's current energy sector ...

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