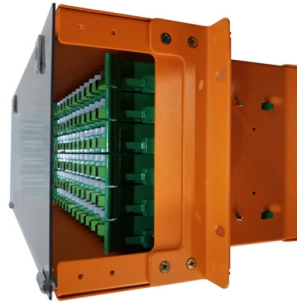


Energy in Sudan



Article Overview

Sudan's energy resources include oil, hydropower, solar, wind, and biomass, with oil and hydropower being the dominant sources for electricity generation.

Fossil Fuels

Oil is Sudan's primary fossil fuel resource, with reserves estimated at 1.25 billion barrels as of 2024. Crude oil production has fluctuated over the years, reaching about 57,000 barrels per day in 2023, while domestic consumption was around 128,900 barrels per day. Sudan also exports crude oil, mainly to the United Arab Emirates and Malaysia. Natural gas reserves are estimated at 3 trillion cubic feet, but the country neither produces nor consumes gas commercially, and associated petroleum gas is mostly flared or reinjected. Sudan does not produce or consume coal .

Renewable Energy

Hydropower is the most significant renewable energy source in Sudan, historically contributing a high share of electricity generation. In 2023, about 68.7% of electricity was generated from hydropower, with a gross theoretical potential of 19 GWh/year . Solar energy has high potential due to strong solar radiation across the country, ranging from 5.5 to 6.8 kWh/m²/day, particularly in the northwestern regions near Egypt, Libya, and Chad. Solar systems are increasingly adopted for public facilities, water supply, and residential use, especially in western and northern regions . Wind energy is also promising, with average wind speeds of 5-7 m/s in most areas and over 8 m/s along the Red Sea coast in the northeast . Biomass remains an important energy source, particularly in rural areas, where traditional fuels such as wood and...

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ENERGY PROFILE Sudan

e resource potential Solar PV: Solar resource potential has been divided into seven classes, each representing a range of annual PV

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Energy in Sudan

Energy in Sudan Electricity generation in Sudan in terawatt-hours Energy in Sudan describes energy and electricity production,

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Sudan is an agricultural country with fertile land, plenty of water resources, livestock, forestry resources, and

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An analysis of Sudan's energy sector and its renewable energy

Thus, developing a sustainable energy policy will be an essential element of economic growth and development. This article

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