



MODERNIZATION SOLAR

Construction of wind solar and energy storage projects in North Africa





Overview

Why are solar and wind projects growing in Africa?

Several key factors are fueling the rise of utility-scale solar and wind projects:

1. **Rising Energy Demand and Electrification Goals** Africa's population is expected to reach 2.5 billion by 2050, driving massive increases in energy consumption.

Are solar and wind projects a viable solution to Africa's energy crisis?

Over 600 million people in Sub-Saharan Africa still lack access to electricity, creating a significant demand for new energy infrastructure. Utility-scale solar and wind projects offer a scalable solution to this challenge, enabling governments and utilities to increase grid capacity and improve energy access on a large scale. 2.

How much does a solar PV project cost in North Africa?

The NPC for the PV-based solar schemes planned to be founded in Libya, Tunisia, Algeria and Morocco were determined to be about US\$3.14B, US\$16.8B, US\$13.9B and US\$13.1B, respectively. The COE and unmet electric loads of the examined twelve PVs across the four remaining North African countries are depicted in Fig. 5, Fig. 6.

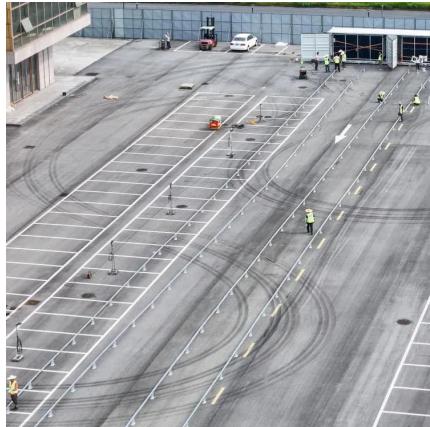
Which countries use wind power?

Morocco: Over 40% of the country's electricity is now sourced from renewables, with major investments in utility-scale solar and wind farms.

Kenya: The government has streamlined permitting and land acquisition processes for large-scale wind projects, including the Lake Turkana Wind Power Project, the largest wind farm in Africa.



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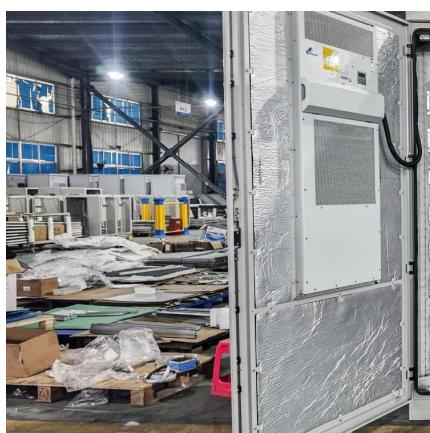


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