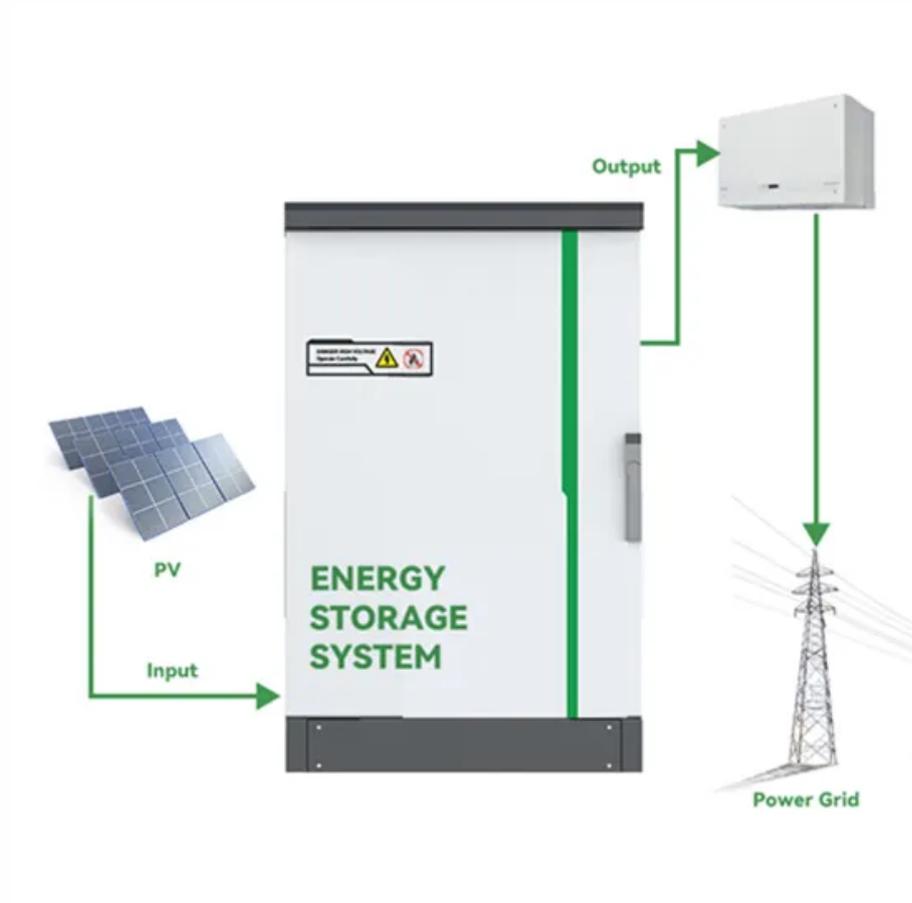


Are solar panels profitable in North Africa



Overview

Utility-scale solar photovoltaic projects across Africa now operate with levelized costs of electricity ranging from \$32 to \$67 per megawatt-hour, making them increasingly competitive against fossil fuel alternatives. Africa added approximately 4.5 GW of new solar PV capacity in 2025, representing a 54% increase from 2024, according to the Global Solar Council. These additions occurred amid ongoing electricity supply challenges. Image: Installed in 2017, the 5,3MWp Karibib Solar PV Park in the Erongo Region of western Namibia, has 19,200 solar modules and spans over an area of 11Ha. Source: Hanspeter Baumeler/Wikimedia Commons

By all measures, Africa's solar photovoltaic (PV) power market is undergoing a transformation. Africa's renewable energy sector is experiencing unprecedented growth, with solar power attracting more than half of clean energy investments on the continent. Yet this expansion sits alongside a stark reality: roughly 600 million Africans still lack access to electricity, exposing a fundamental. New GSC report finds that 23 GW of new solar PV capacity is projected to be installed over next four years in Africa.

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Standard 20ft containers



Standard 40ft containers

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...

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Top ten African nations with the highest solar energy adoption in 2025

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Top 10 African solar markets by new solar installation

The following table highlights the top 10 African solar markets by new solar installations (%) in 2024, reflecting the continent's evolving energy landscape and the growing role of solar

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Global Solar Council , Global Solar Council: Africa's Solar Market set



The Africa Market Outlook for Solar PV 2025-2028 reveals the continent is on the verge of a solar breakthrough - but is held back by high capital costs and insufficient financing.

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