

**PIENAAR ENERGY (PTY) LTD**

# **Analysis of the current status of solar power generation in Africa**



## Overview

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Africa's solar energy market continues to grow significantly. In 2025, the continent added more than 5,000 MW solar power capacity. The Africa Solar Outlook is designed precisely to respond to this need, offering a concise and pragmatic overview of the realities shaping the solar sector across the African continent. At the same time, for readers wishing to explore specific topics in greater depth, the. 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. The meeting used the latest figures from African Energy Live Data to analyse the state of the solar power generation sector and examine the. In 2024, 21 African countries generated at least 5% of their electricity from solar, with 7 countries surpassing the 10% mark. The global solar energy market achieved a historic milestone in 2024, adding an estimated 503 gigawatts (GW) of new capacity, bringing the total installed capacity to over 2.

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### **A Green Energy Revolution: The Sun Is Shining On Africa's Solar Sector**

In a continent where more than half the population--some 600 million people--live without electricity, it seems painfully ironic that Africa is also one of the sunniest places on Earth. The ...

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### **Solar PV potential in Africa for three generational time-scales**

As rooftop solar PV is already in use in Africa, the PESTLE (Political, Economic, Social, Technical, Legal, and Environmental) framework was considered to evaluate the current and ...



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### **Africa: Solar market surges on back of distributed power**

Floating solar panels on the reservoir at Bui Power Station. Image Source: ESI Africa. The renewable energy transition in Africa is entering a faster and more complex phase, with solar PV ...

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## AFRICA SOLAR OUTLOOK 2026

Building on the updated capacity assessment introduced above with the introduction of a new data source, the analysis of solar generation has also been revisited, resulting in several notable shifts:

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## African solar power trends , African Energy

The meeting used the latest figures from African Energy Live Data to analyse the state of the solar power generation sector and examine the trajectory of the industry and emerging trends.

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## African Power Platform

Next to highlighting the most notable projects and trends, the Africa Solar Outlook 2025 report also provides a unique overview of the status of solar in each African country.

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## Africa Market Outlook for Solar PV: 2026-2029

The Africa Market Outlook for Solar PV: 2026-2029 is the Global Solar Council's flagship annual analysis of solar and

storage deployment across the African continent. Building on the latest market

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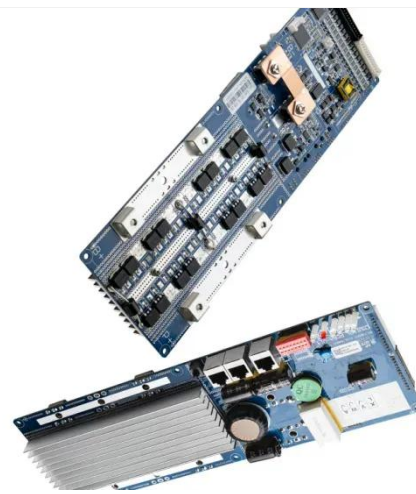


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## Africa Solar Outlook 2025 Launch

In Africa, the growth is more modest but new installations maintain a solid level at 2.5 GWp after 2022 and 2023 being record years for solar in Africa. Thanks to new solar installations, ...

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## Africa's Solar Energy Expansion: From Ambition to Action

Discover how Africa is transforming its energy landscape by harnessing solar power. Despite challenges, the continent's growing commitment to solar energy is paving the way for ...

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

Africa's solar energy market continues to grow significantly. In 2025, the continent added more than 5,000 MW solar power capacity. In this article, we breakdown countries leading this drive.

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