

# **Solar power generation systems in East Africa**





## Overview

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Can solar power meet energy needs in East Africa?

The unrealised capacity for PV technologies to meet energy needs in East Africa is enormous: the region receives an average of 4.0–6.9 kWh/m<sup>2</sup>/day of solar insolation, which could deliver universal electricity access, yet solar electricity accounts for less than one percent of the electricity generation mix.

Is Africa transforming its energy landscape by harnessing solar power?

As solar technology continues to evolve and costs decline, Africa's journey toward a brighter, solar-powered future is poised to accelerate, illuminating millions of lives across the continent. Discover how Africa is transforming its energy landscape by harnessing solar power.

Does Africa have solar power?

Africa holds vast solar potential, with 60% of the world's best solar resources, yet solar PV currently accounts for only 3% of the continent's electricity generation. As global efforts intensify to triple renewable energy capacity by 2030, Africa's role in achieving this target is more critical than ever.

What role does solar play in Africa's growing electricity demand?

As a low-cost, flexible and localized energy source, solar will need to play an important role in powering the continent's growing electricity demand. With new electricity-intensive industries such as renewable hydrogen and e-mobility on the rise in Africa, the demand for solar will also rise.



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## Africa

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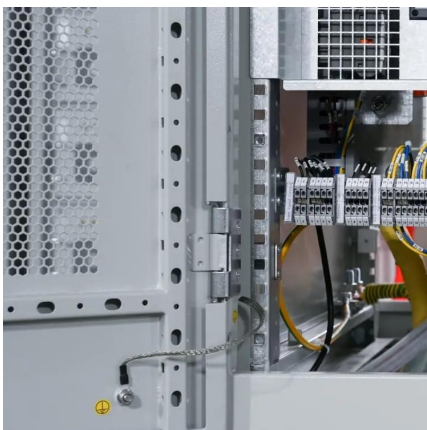


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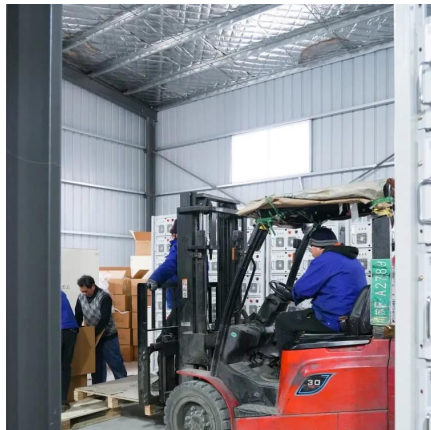
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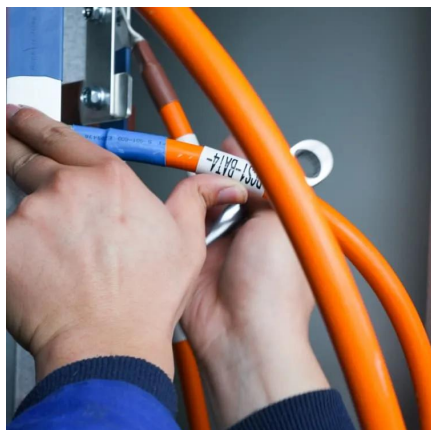
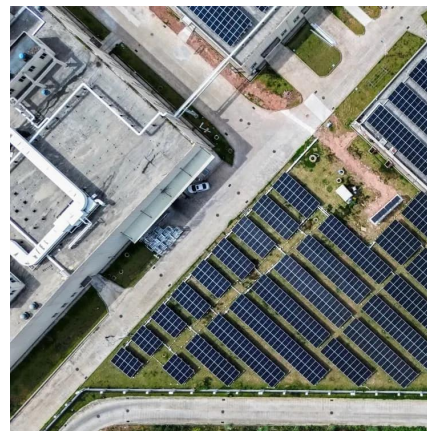


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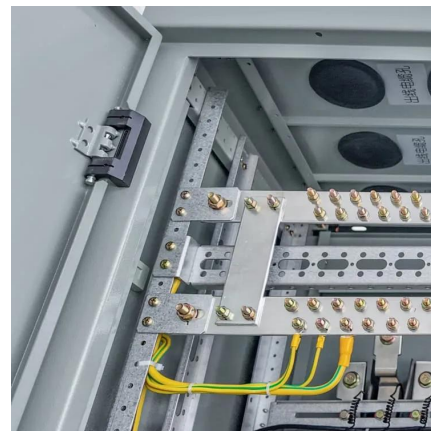


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