

## Kongres Container

# Central African Republic Portable Energy Storage Power Supply Customized Factory



## Overview

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How many people in Africa have electricity access?

Currently, around 60 million people in Africa have electricity access through off-grid solutions, with 15 countries having electrification plans incorporating distributed renewables<sup>11</sup>. Energy access would promote agricultural productivity, modern health services and education, and industrial development.

Are renewables a solution to Africa's energy crisis?

Renewables provide a potential solution to meet much of this demand growth: Africa has almost unlimited potential for solar capacity (10 TW) and abundant hydro (350 GW), wind (110 GW), and geothermal energy sources (15 GW)<sup>2</sup>.

How can Africa make a significant impact on renewables energy manufacturing?

Significant impact in renewables energy manufacturing in Africa could be achieved through four programs. Africa has many of the right ingredients to build a globally-competitive renewable energy ecosystem—it has the demand, the natural resources, the trade partnerships, and many supporting tools and incentives.

Does South Africa have a battery-energy-storage-system (BESS) opportunity?

South Africa emerges as the only country with a credible battery-energy-storage-system (BESS) packaging opportunity, given that its projected demand is the highest on the continent. However, the near- and intermediate-term opportunity remains limited given the scale of demand in the next 5-10 years.

Can China build a solar plant in South Africa?

In manufacturing industries, Chinese companies have built factories in several sectors, including automotive, cement, and appliances. However, at the time of

this report, the only three projects in the renewables space are facilities in South Africa operated separately by Jinko, Seraphim and Talesun—all for solar module assembly.

Which countries ranked favorably in renewables manufacturing in Africa?

Ultimately, ten countries ranked favorably in this analysis: Morocco, South Africa, Egypt, Ghana, Algeria, Tunisia, Nigeria, Namibia, Kenya and Tanzania.  
5 We looked at renewables manufacturing in Africa from the perspective of the Chinese renewables industry players.

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