

## ContainerPower Energy Solutions

# Mozambique Communication Base Station Wind and Solar Complementary Construction Project



## Overview

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What is the optimal power system expansion plan for Mozambique?

The optimal power system expansion plan if wind and solar capacity are allowed to triple to reach almost 3 GW by 2032. Currently, the power system of Mozambique is separated into two transmission networks isolated from one another: the Central-Northern and Southern systems. Over 50% of the annual power demand is seen in the Southern system.

How will Mozambique's power plant's strategic location affect the grid?

The project's strategic location will reduce energy transmission losses and improve the security of energy supply in northern Mozambique and stabilize the grid. It is estimated that the power plant's connection to the EDM grid will result in a seven percent improvement in the network default level.

Why is Mozambique launching a low-carbon energy project?

AfDB's Vice President for Power, Energy, Climate, and Green Growth, Kevin Kariuki, said the project is a major step forward in Mozambique's transition to a low-carbon energy future. "It will deliver affordable electricity, support local industry, and improve livelihoods," he said.

How can Mozambique achieve its electrification goal?

A power mix that takes advantage of its vast energy resources in a cost-effective way and provides a solid foundation for the long-term development of its power system. The use of proven power generation technologies coupled with a well-structured and realistic data-driven plan will enable Mozambique to reach its electrification goal.

Why is Mozambique focusing on hydropower projects?

Since Mozambique has high hydro power potential, the country is focusing on developing large hydro projects that aim to be operational at the beginning of 2030's. Hydropower projects play an important role in decarbonizing the

power sector in Mozambique.

Where is Mozambique's first utility-scale wind farm located?

Globeleq and its partner, Source Energia, are in the final stages of developing Mozambique's first utility-scale wind farm project. Namaacha is a 120MW wind project located on 855 hectares close to the town of Namaacha in southern Mozambique, approximately 50 kms west of Maputo.

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