

## SolarInnovate Energy Solutions

# Mozambique Energy Storage Power Generation



## Overview

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How much power does Mozambique have?

The country's biggest power plant, Cahora Bassa hydro plant, has an installed capacity of 2,075 MW. Currently, over 75% of the electricity generated from the hydropower plant is exported to South Africa. The remaining capacity, around 1,300 MW, is utilised to meet local electricity demand in Mozambique.

How much electricity does Mozambique have in 2021?

Despite this huge generation potential only 38.6%<sup>1)</sup> of its population had access to electricity in 2021. The total installed power capacity in Mozambique stood at around 2,800 MW in the year 2021 whereas the peak demand reported by the state-owned energy utility Electricidade de Moçambique (EDM) was at 1,035 MW.

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 a major energy exporter?

Mozambique is a net exporter of energy to countries in the Southern African Power Pool (SAPP) – South Africa being the largest importer. The government view energy exports as a key driver of the Mozambican economy, having passed a new electricity law that simplifies permitting and encourages IPPs activities.

Why should Mozambique be a regional power supplier?

First, to ensure that Mozambique has reliable and cost-effective power generation capable of meeting its 2030 electrification goals. Second, to

establish Mozambique as a regional power supplier of choice. South Africa has a critical shortage of electricity, and Zambia and Zimbabwe also require power.

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.

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### **Comprehensive Analysis of the Energy Transition in Mozambique**

May 31, 2024 · This paper presents a comprehensive analysis of Mozambique's energy transition, focusing on integrating a hybrid solar-wind system with green hydrogen storage. It discusses ...

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