

## SolarTech Power Solutions

# Mozambique s solar and energy storage ratio



## Overview

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Renewable energy supply in 2021 . RENEWABLE RESOURCE POTENTIAL  
Distribution of solar potential.

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of capacity (kWh/kWp/yr). The bar chart shows the proportion of a country's land area in each of these classes and the global distribution of land area across the ured at a height of 100m. The bar chart shows the distribution of the country's land area in each of these classes compared to the.

Mozambique has significant solar energy potential due to its geographical location. The country receives high solar irradiation levels, averaging around 5-6 kWh/m<sup>2</sup>/day. This makes solar energy an attractive and feasible option for expanding electricity generation, particularly in remote and rural.

The Renewable Energy Atlas (RENMOZ-2025), a strategic and informative tool that consolidates the main data, trends and projects underway in the country's renewable energy sector, was launched on Wednesday 23 April in Maputo. Produced by the Mozambican Renewable Energy Association (AMER), the atlas.

Hydropower currently makes up 95% of Mozambique's renewable energy mix, though the country also has a small installed capacity of wind and solar power. Building on this foundation, Mozambique plans to leverage its abundant natural resources to significantly increase its renewable energy capacity.

Mozambique has the largest power generation potential in the entire Southern African region thanks to its vast and largely untapped gas, hydro, wind and solar resources. Despite this huge generation potential only 38.6%1) of its population had access to electricity in 2021. The total installed.

The PV power potential map developed by the World Bank shows the potential for PV power projects in Mozambique on a scale of a yearly total specific PV

power output of 1,534 to 1,753 kWh/kWp. The zones marked in the darkest shade show the highest potential. Is Mozambique a good place to invest in. How much solar energy does Mozambique have?

Mozambique has a potential solar energy yield estimated between 1,785 and 2,206 kWh/m<sup>2</sup>/year, resulting in a solar energy potential of 23,000GWh/year. In August 2019, the first grid-ready solar power station, the 40 megawatts Mocuba Solar Power Station, in Mocuba District, Zambezia Province, achieved commercial commissioning.

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 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.

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 much gas will Mozambique need in 2024?

In addition to the planned generation capacity that is likely to be commissioned by 2024, the modelling results indicate that Mozambique will need 1.5 GW of new base load gas projects and 230 MW of new flexible gas projects from 2025 to 2032.

When will domestic gas be available in Mozambique?

Domestic gas from the Northern coast of Mozambique is expected to be

available by 2026. The pressing challenge for Mozambique's energy authorities is to ensure that the entire population gets affordable and uninterrupted access to electricity over the next decade.

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