

Can Mozambique take full advantage of its solar potential?

In a new monthly column for [pv magazine](#), SolarPower Europe describes how Mozambique may take full advantage of its huge solar potential by implementing its recently launched Renewable Energy Auctions Programme for large-scale projects, while also pushing for more off-grid renewables in remote areas.

What is the market for off-grid solar in Mozambique?

The total estimated addressable market for off-grid solar is currently 173 MW, and is expected to grow in line with the growth of the aforementioned sectors. Recent energy policy reforms are also changing the game for off-grid renewables in Mozambique.

Is Mozambique a good place to invest in solar energy?

Mozambique has an abundant and unexploited solar resource which could be harnessed for utility scale as well as residential PV for both on/off grid electrification. The following map shows the global horizontal irradiation profile of Mozambique which varies between 1,785 and 2,206 kWh/m<sup>2</sup>/year.

Does Mozambique have a solar vision?

However, the Mozambican government has a vision for the country, based on clean electrification for all. The southern African nation possesses serious solar wealth, with 23 TW of its 23,026 GW estimated renewable potential attributed to solar.

Can off-grid solar power help Mozambique achieve SDG 7?

The SDG 7 - universal access to affordable, reliable, and sustainable energy - is central to achieving many of the SDGs under UN's Agenda 2030. Achievement of universal electricity access is a key target under SDG 7. This brief describes the significant role that the off-grid solar power sector could play in meeting Mozambique's universal

Which zone has the highest solar power potential in Mozambique?

The zones marked in the darkest shades show the highest potential. By the end of 2022, there is a total of 125 MW of solar power plants (under a public-private partnership (PPP)) developed in Mozambique, of which 60 MW are already connected to the national grid: Projects Mocuba and Metoro.

The state-owned company Eletricidade de Moçambique plans to invest \$110.6 million (EUR102 million) with private companies to install a 60 MW solar power plant next to the Corumana dam in Maputo province.

Mozambique can meet the off-grid electrification need by utilizing its enormous renewable resources as evidenced by the thousands of identified potential project sites in areas with off-grid population (MIREME,

2014). Both solar and hydropower have significant technical potential estimated at 23 TW and 19 GW respectively.

Mozambique's renewable energy landscape is in its infancy, with 60 MW of installed solar capacity in 2022. However, the Mozambican government have a vision for the country, based on clean ...

African independent power producer Globeleq has finalised its acquisition of a 75% stake in the 41MW Central Solar de Mocuba solar project in Mozambique from Norwegian firm Scatec and...

By 2030, the Government of Mozambique hope to transform this landscape, and achieve universal energy access by the end of the decade. This would require capacity to more than double to almost 6,500 MW. Solar is undeniably the most intuitive renewable technology when it comes to off-grid energy solutions.

Samir Sal&#233;, country and business development director of Globeleq, talks to The Energy Year about fast-tracking renewables projects in Mozambique and the potential of solar generation and battery storage in the country's energy mix.

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This report looks into the investments opportunities for solar deployment in Mozambique. The report focuses on the energy context, relevant actors and the regulatory framework for investments in renewables.

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Center-northern Mozambique suffers from low electricity access due to its isolation from main generation center in the South, significant transmission losses and an overreliance on power supply from the Cahora-Bassa hydropower plant.

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