



# Solar thermal energy madagascar





## Overview

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Madagascar is a prime candidate for solar energy development, with excellent sunlight, low energy access, and increasing government and donor commitment to clean energy. Solar offers a fast, flexible solution for electrifying villages, farms, clinics, and rural businesses. Global South Utilities (GSU) has secured agreements with Madagascar to develop a 50 MW solar plant and a 25 MWh battery energy storage system (BESS) in the island nation. Photo: World Bank

With only a 15% connection rate, Madagascar faces a chronic lack of access to electricity, which hampers its economic and social development. However, there is tremendous potential in terms of solar power, estimated at 2,000 kWh/m<sup>2</sup>/year as a result of the 2, a potential capacity of 2,000 kWh/m<sup>2</sup>/ 5% of the population has access to electricity. During the Council of Ministers meeting on February 5, 2025, several strategic projects were approved. The goal is to strengthen access to electricity and modernize the national energy grid.

- Solar irradiation : an average of more than 2800 hours of sunshine per year, with peak levels reaching 5 to 6 kWh/m<sup>2</sup>/day in some regions
- Extreme heat : temperatures can exceed 35°C in the central and coastal areas, which can affect the efficiency of solar panels and the lifespan of batteries.
- Speaking at the Abu Dhabi-hosted International Renewable Energy Agency (IRENA) Assembly on January 12, Director-General Francesco La Camera spotlighted the expanding inequalities in global renewable energy investments amid the sector's rapid development in recent years. While Asia, Europe, and



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### Madagascar solar thermal energy storage project

These projects include installing solar cold storage units in rural areas, solarising healthcare facilities to ensure uninterrupted power supply, and implementing solar water

### [Madagascar: Solar powered rural electrification program](#)

Madagascar is one of the sunniest countries in the world with more than 3,000 hours of sunshine per year, so decentralised solar power supply to rural areas is not only easier but also cheaper.



### [Energy Transition: Madagascar invests in solar power](#)

The aim is to double renewable energy production and achieve an electrification rate of 75% by 2030. Several infrastructures are under construction, including a 100 MW plant in ...



### [Madagascar signs deal to develop 50 MW of solar with 25 MWh of ...](#)

Global South Utilities (GSU) has secured agreements with Madagascar to develop a 50 MW solar plant and a 25 MWh battery energy storage system (BESS) in the island nation.



### [Madagascar: Andry Rajoelina's Solar Energy Drive Paving Way for ...](#)

Indeed, with over 2800 hours of annual sunshine, high wind speeds, and massive hydropower potential, Madagascar represents one of Africa's most promising sources of renewable ...



### [The Force of the Sun: Madagascar Embarks on Renewable Energy ...](#)

In Madagascar, only 15% of the population has access to electricity. In 2017, the country had just 570 MW of mainly thermal (60%) and hydroelectric (40%) installed production capacity.



### **Solar thermal energy storage in madagascar**

Madagascar published its new energy policy in 2015 which stated that the country aims to attain 85% of renewable energy in the energy mix by 2030, according to the Solarize Africa Market Report.



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### [Balglobal & Mytilneos Launch 5MW](#)



## Madagascar Solar Plant Project

Balglobal partners with Mytilineos on a pioneering 5MW solar plant in Madagascar. The project will power mining operations, cut 8,000 tonnes of CO<sub>2</sub>, and boost clean energy.



## **Madagascar Embraces Solar as Key Energy Source**

At Solarvance, we design resilient, weatherproof, and island-optimized solar systems for regions like Madagascar. Whether for a fishing village near Tuléar, a school in Fianarantsoa, or a clinic in the

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## **Madagascar Country Profile: Energy and Solarisation**

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