

Mozambique europe renewable energy

Mozambique possesses a wide range of renewable energy resources, which could not only allow the country to meet its own domestic electricity needs, but may also allow Mozambique to turn into an electricity hub within the Southern Africa region.

A Mozambique Renewable Energy Atlas was published in 2014 in order to map the potential of the renewable resources in Mozambique, namely hydropower, solar, wind, biomass, wave energy and geothermal. The total potential for generating electricity from renewable resources is over 23,000GW, most of which comes from solar energy.

The total electrification rate was about 40% in 2021. Mozambique's installed capacity stands at 2,905MW and is determined by the Cahora Bassa hydroelectric plant, which has an installed capacity of 2,075MW. Based on Sustainable Development Goal 7, which aims to ensure access to affordable, reliable, sustainable and modern energy for all, the Government's goal is to achieve 100% universal access to electricity by 2030. In the short term, it is also committed to ensuring the electrification of all Administrative Areas of the country (Postos Administrativos) by 2024.

With this aim, the Government has launched the 'Energy for All' ('Energia para Todos' or 'ProEnergia') Program, coordinated by the Ministry of Mineral Resources and Energy and financed by the World Bank and a Multi-Donor Trust Fund. This Program should contribute to the Peri-urban and Rural Electrification as well as to the Off-grid Electrification.

The Government is keen for the electricity sector to contribute to the mitigation of the impact of climate change by having renewable energy make up 20% of the national electricity grid. The main contribution to off-grid electrification is expected to come from solar home systems and mini-grids.

In recent years Mozambique have made efforts to improve the legal and regulatory framework for the electricity sector to create an enabling environment to attract private investment in renewable energy and off-grid projects.

As a result, an Energy Regulatory Authority ('ARENE') was created in 2017. ARENE has powers for supervision, regulation, inspection and sanctions in the field of production, transmission, distribution, commercialisation of electricity.

A new Electricity Law was entered into force in October 2022 (Law 12/2022 of July 11th) in order to adapt the legal framework of the electricity sector to the current social, technical and financial dynamics of Mozambique, as well as looking to maximise all of its renewable energy sources and reduce the use of fossil sources. The regulations of this law are still in preparation.

The Electricity Law created a new entity, the Manager of the National Electricity System, who shall assume the functions of System Operation and Market Operation, with support from the National Dispatch Center. The new entity will focus on the performance of functions of planning and development of the National Electricity System.

Another feature of the new law is the creation of an Energy Register, which will contain the records of energy supply activities or provision of energy services, as well as the respective suspension, modification, extension and extinction of a facility.

In December 2022, the Government published the Regulation on the Tariff System for the Supply of Energy through the National Electric Network, which establishes the methodology that will allow the Regulatory Authority to approve tariffs and prices.

Regarding the Off-grid area, a Regulations for Energy Access in Off-grid Areas entered into force in January 2022. It establishes the principles and rules applicable to supply activities for access to energy in off-grid areas, through mini-grids of up to 10MW and energy services (defined as services for energy consumers, preferably renewable, such as supply, financing, installation, operation, maintenance of electrical equipment and installations, including autonomous systems).

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