Mozambique Off-Grid Energy Investment Pipeline

Partnering with Europe to Accelerate Mozambique's Energy Transition

RENMOZ UE – Brussels
17 March 2026

About Us

Who We Are

The **Energy Fund (FUNAE)** is Mozambique's national public institution responsible for expanding access to modern energy in rural and off-grid areas.

Established in **1997**, FUNAE operates with administrative and financial autonomy under the **Ministry of Mineral Resources and Energy (MIREME)** giving it the mandate and flexibility to drive impactful, on-the-ground change.

Energy Fund (FUNAE)

Our Mandate

Universal Access

- Promoting universal access to modern, affordable, and sustainable energy services.

Off-Grid Solutions

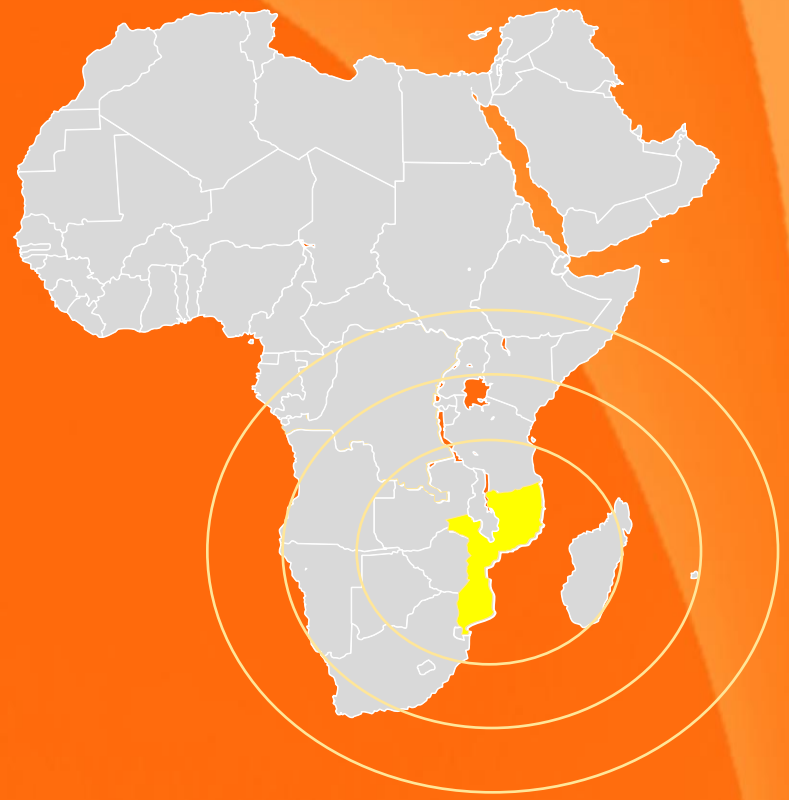
- Develop and deploy decentralised electrification solutions — mini-grids, solar home systems, and stand-alone units.

Productive Use

- Promote energy as a driver of local economic activity, supporting agriculture, health, education, and enterprises.

Finance Mobilisation

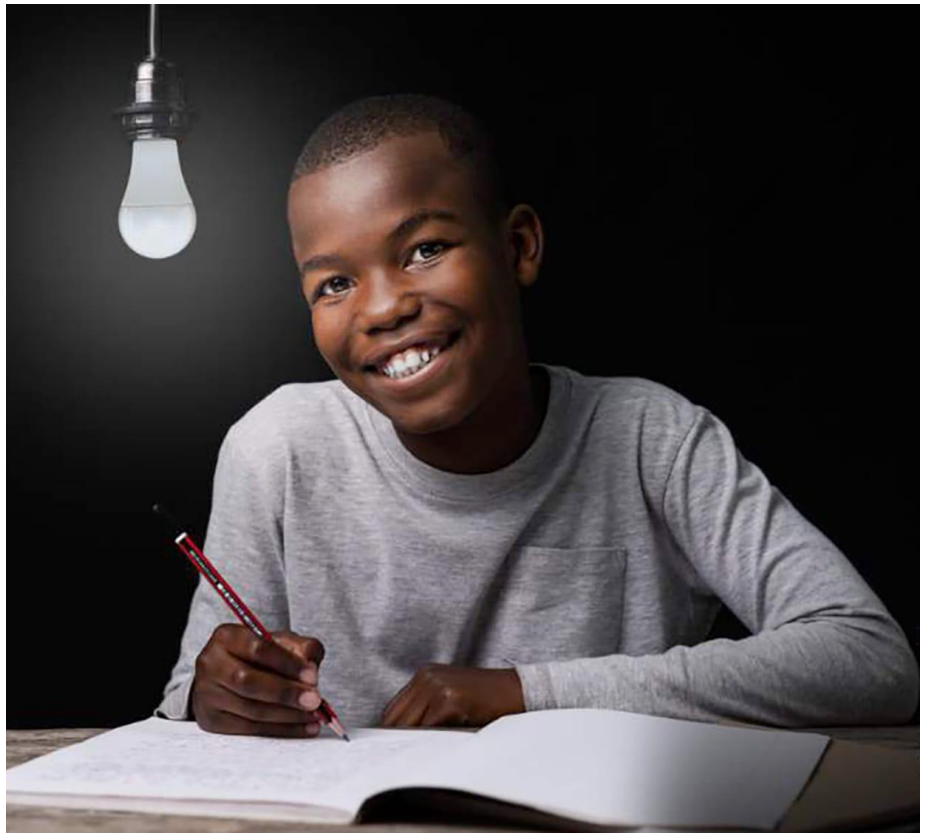
- Mobilise and manage financing for decentralised renewable energy projects across the country.



Mozambique

Energy Access Context

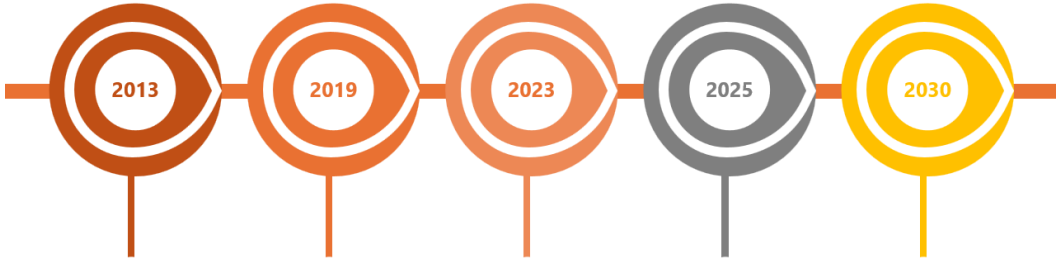
Current Off-Grid Energy Context



Population

- **32.4 million people**
  - **34.7 % Urban areas**
  - **65.3 % Rural areas**

30% of 2030 access expected from off-grid solutions.



	2013	2019	2023	2025	2030
Electrification Rate	24%	35%	52%	64%	100%
Off Grid Access Rate	1%	3%	7%	11%	30%

Current Off-Grid Energy Context

Country Profile

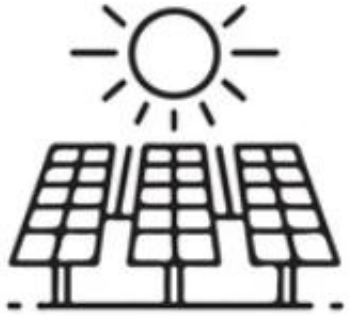
- Regulatory Framework
- 100+ existing FUNAE mini-grids
- Growing number of private operators
- Private developed and owned mini-grid approved
- and in operation since 2025
- On-going RFQ for mini-grids in Nampula province

Mozambique OFF-GRID – *Market Opportunity*

Integrated Energy Access Plan Based on Least Cost Electrification Approach

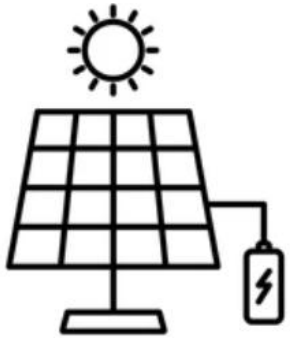
~ 363 News Mini Grids

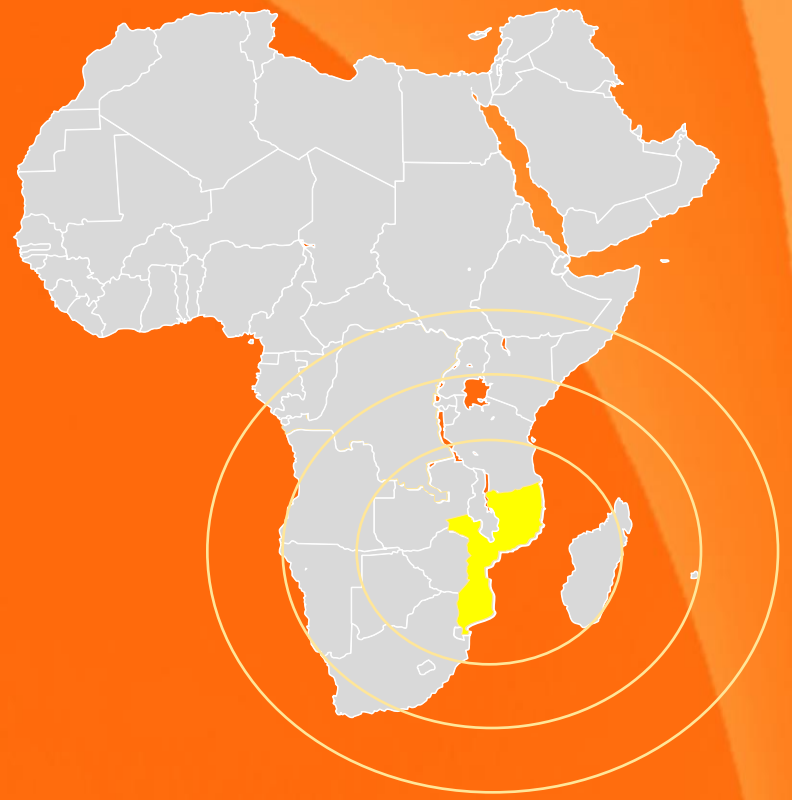
- Capacity: 16.7 MW
- **Investment: > US$100 Million**



2.403.718 SHS

- Capacity: 102.8 MW
- **Investment: US$869 Million**





National Mini-Grid Government

Investment Program

Mini Grid Investment *Snapshot*

Selected sites for Mini-grids projects

Promote participation of the private sector in the electrification process and accelerate universal access

Pre-selected sites for *mini-grids clusters* in **Tete, Zambezia, Nampula, Niassa, Manica e Sofala.**

Main characteristics:

- **Low electrification rate**
- **High Population density**
- **Productive use approach**

Accelerating Private Sector Participation

100+

Solar Mini-Grids

Concession Model – BUILD – OWN- OPERATE -TRANSFER

Design & Build & Own

Private sector Led

Financial Incentives

Government and Partners backed support included

Technical Support

Project Preparation Support

Coordinated Under Mozambique's Country Platform

Site Selection Methodology

Sites are being identified per province based on:

Distance from the Grid

At least **30 km away** from existing or planned grid infrastructure

Demographic and Demand Data

Analysis of **population distribution** and **energy demand** across provinces

Economic and Social Activities

Presence of **economic and social activities** within the settlement

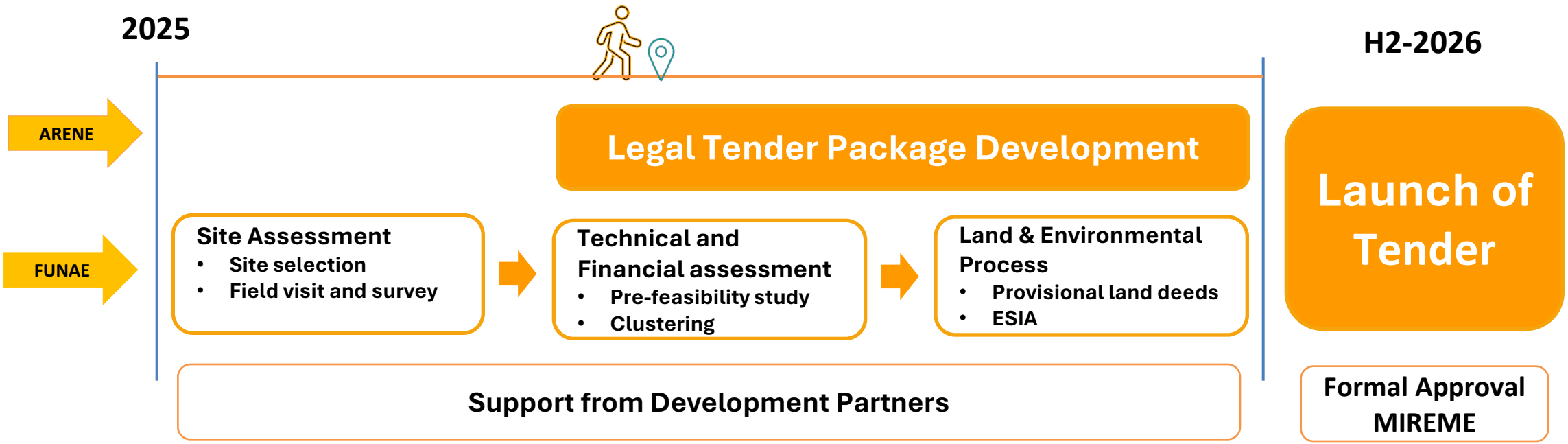
Minimum Settlement Size

Minimum of 250 buildings per settlement

National Energy Planning

Alignment with **national energy planning frameworks**

TENDER PREPARATION PROCESS



During the tender, applicants will be provided with:

- List of clustered sites per province.
- Pre - assessment studies per site.
- Provisional land securitization.
- Input assumptions for financial modelling.
- Support for Environmental and social licensing.

Location

Tete

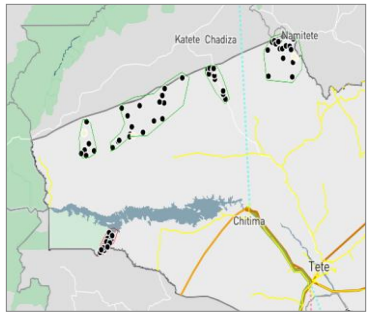
Mini-Grids Investment Pitch

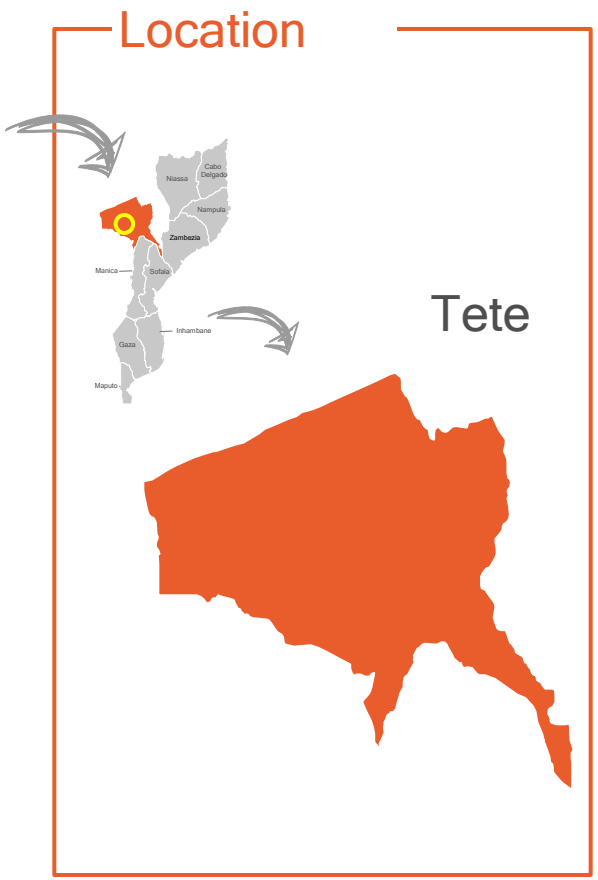
Tete Province Example

Example Mini Grid Pre-Cluster – *Tete Province*

Cluster #1: Districts of Maravia

BORDER WITH ZAMBIA





~17.5M€

Estimated CAPEX

26,000+

Potential Connections

1.8+

MWp Installed Capacity

72+

Sites

300+

Connections per Site

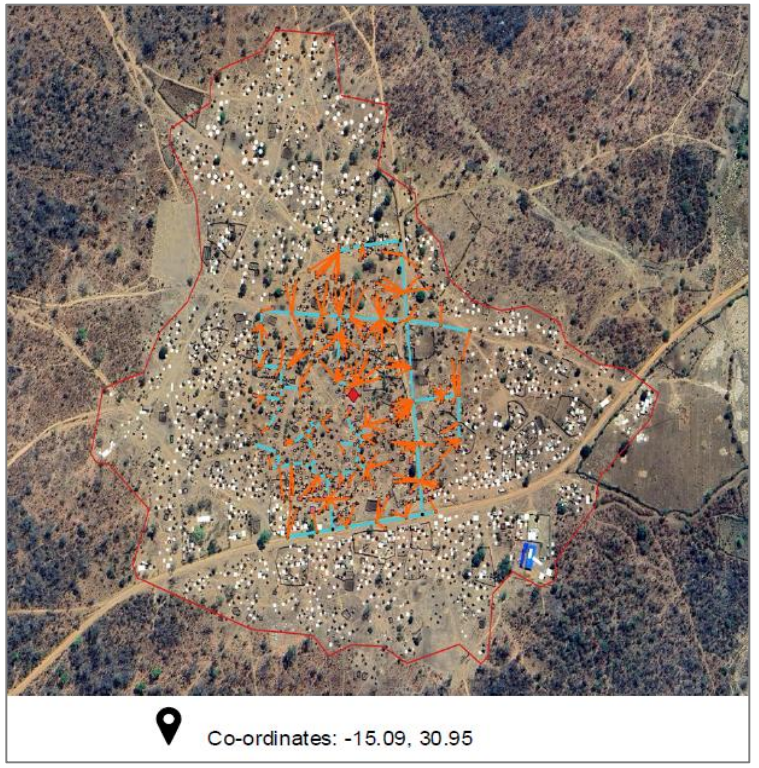
Mini Grid Cluster - *Tete Province*

Location Characteristics	
Province	Tete
District	Maravia
Locality	Metico
Village Name	Uncanha

Accessibility and Demand Characteristics	
Distance to the grid (km)	147.43
Residential demand (kWh/day)	82.19
Commercial demand (kWh/day)	21.6

Connection Characteristics	
Residential connections	500
Commercial connections	41
Public infrastructure	4

Generation Components	
Solar PV size (kWp)	50
Battery size (kWh)	105
Inverter size (kW)	25



Tete Province Cluster – *PURE Opportunities*

Agro-processing Centres

Milling, drying and pressing

Livestock and Fisheries Value Chains

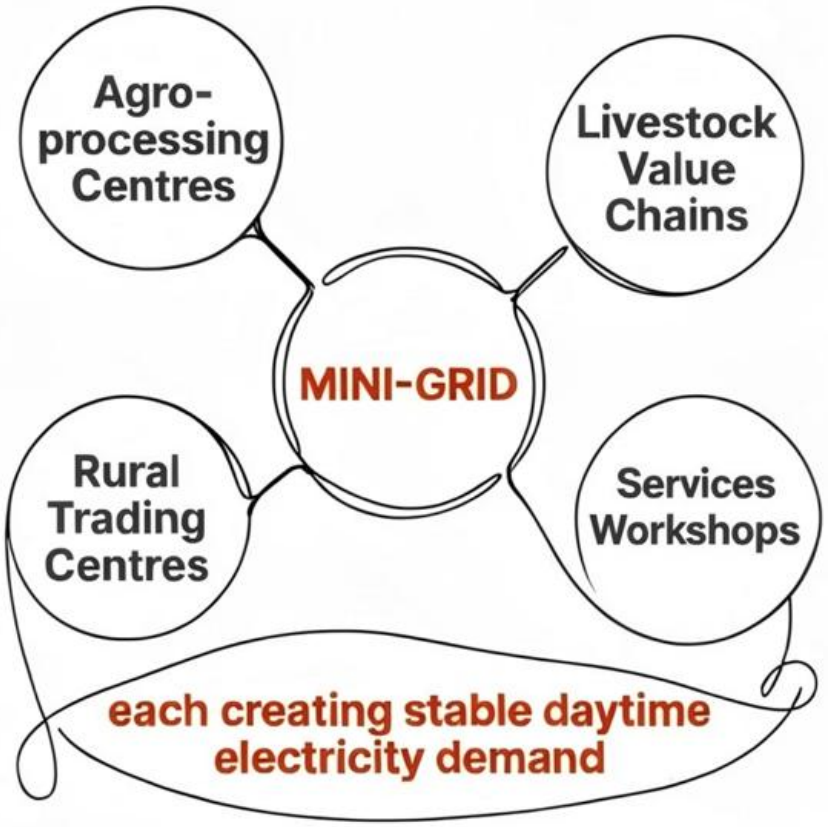
Cold storage, processing and market linkages driving demand

Service Workshops

Welding, fabrication and equipment servicing for local mining and SMEs activities

Rural Trading Centres

Commercial hubs serving cross-border and agro commodities export trade and local retail



Provincial One Pagers

TO ACCESS MOZAMBIQUE

PROVINCIAL

Relevant Information

SCAN HERE

Location

Niassa

Produtive Use of Energy (PURE)

Niassa Macadamia Case Study

PURE Case Study - *Niassa Province*

Macadamia Farm

A 10,000-ha macadamia plantation with on-site processing — drying, shelling, and packing — located in a rural area of Niassa, Mozambique.

Location of NML Farm and the Village

PURE Case Study - *Niassa Province*

Macadamia Farm

Energy Project Profile

High Daytime Baseline Load

Processing and refrigeration demand is concentrated during daylight hours, currently met by **diesel generators** — driving high OPEX and supply risk.

Location of NML Farm and the Village

Catalyst for Local Electrification

The farm acts as an **anchor load**, enabling extension of electricity to surrounding community users in the region.

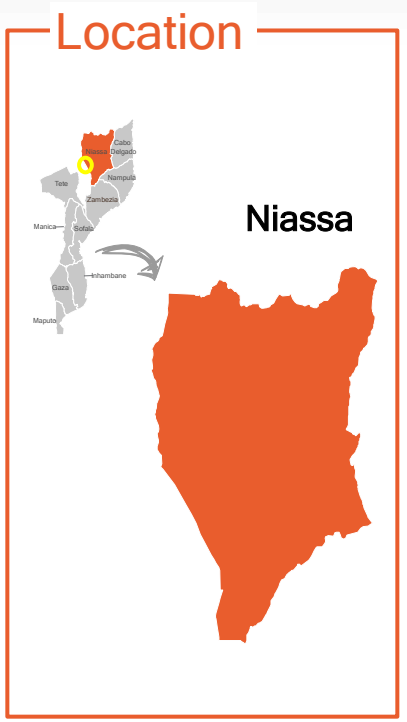
PURE Case Study - *Niassa Province*

Location Characteristics	
Province	Niassa
District	Chimbonila
Locality	Chimbonila
Village Name	Macadamia Site

Demand Characteristics	
Processing Plant demand (kWh/day)	214
Residential demand (kWh/day)	82
Commercial demand (kWh/day)	39

Connection Characteristics	
Residential connections	401
Commercial connections	34
Public Infrastructure	2

Generation Components	
Solar PV size (kWp)	130
Battery size (kWh)	120
Inverter size (kWp)	50



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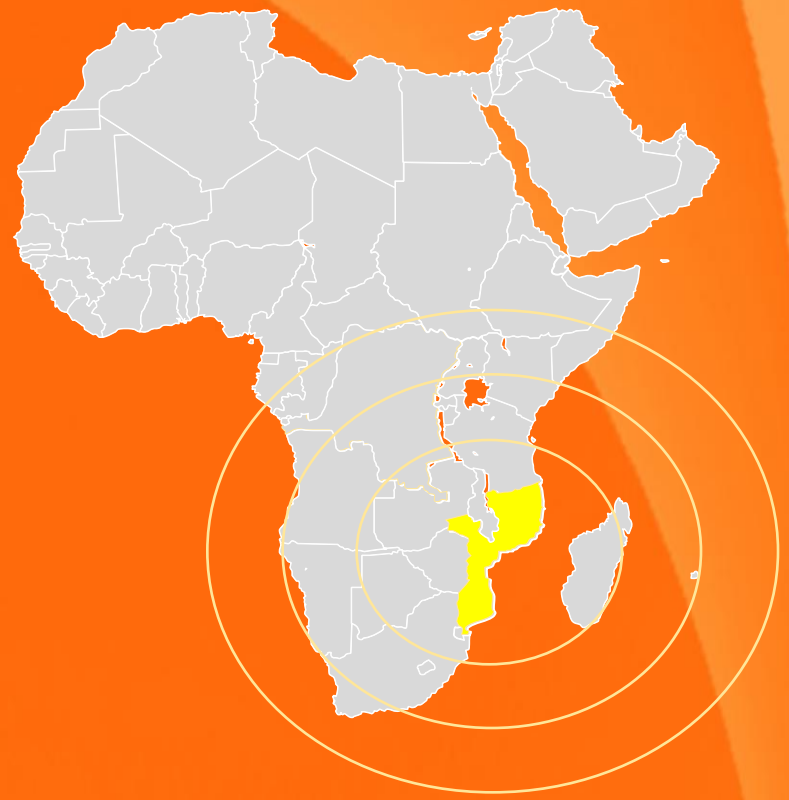

The Future Pathway of Off-Grid Energy in Mozambique

A structured, scalable mini-grid market — ready for investment.

A Market Ready for Investment

Regulatory Framework

Clear rules enabling private sector participation.

Coordination Platform

Government-led alignment of institutions and partners.

Blended Finance

Architecture designed to de-risk investment.

Investment-Ready Pipeline

Clustered mini-grid sites with strong productive use demand.

FUNAE
FUNDO DE ENERGIA, FP

THANK YOU

OBRIGADO