



CONFERÊNCIA ALER

**RENOVÁVEIS NA
ELECTRIFICAÇÃO
DE MOÇAMBIQUE**

ALER CONFERENCE
RENEWABLES IN THE
ELECTRIFICATION OF MOZAMBIQUE

Mini-grids & Feed-in Tariffs in Mozambique

Sustainable Energy Fund for Africa (SEFA) - Technical Assistance

**Promotion of Renewable Energy
in Mozambique**



African Development Bank

Andrew Muguwa – Principal Power
Engineer



Universal Access to “Lighting!” — World Energy Outlook 2017



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Modalities of connection & supply

Connection Strategies

- On-grid: Urban Areas
- Mini-grid: Scattered but cocentrated settlements
- Off-grid (mainly Solar home systems): A stand-alone house

Supply Strategies

- Large-scale generation
- Small to medium generation
- Mini-grids, stand-alone, etc

Public Vs Private: Compare Banking & Mobile phones

See AfDDB Report on Green Mini Grid Market Development Programme Provided. The report provides an overview of off-grid opportunities and challenges in Mozambique

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What is SEFA

Sustainable Energy Fund for Africa: A multi-donor trust fund administered by AfDB to support small to medium scale renewable energy and energy efficiency projects in Africa.

These are small but clean energy projects that are potentially commercially viable but initial development costs are hinder the projects from accessing financing. The development objective is to support sustainable private-sector led economic growth in Africa through efficient utilisation of presently untapped clean energy resources.

SEFA operates under three windows namely:

- **Project Preparation:** Grants for development activities from feasibility studies up to financial closure;
- **Equity Investments:** Provides access to early stage capital
- **Enabling Environment:** Provides grants to public sector activities aimed at creating/improving the enabling environment for private sector investments.

SEFA is also aligned with the SE4ALL Africa Hub which includes support to High Impact Opportunities for Green Mini-Grids

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SEFA Windows



- ❖ Access to Finance
- ❖ Technical Assistance



- ❖ Policy and Regulatory Development
- ❖ Public Sector Support
- ❖ Capacity Building and Advisory
- ❖ Market Development and Preparation



- ❖ Private Equity Capital
- ❖ Technical Assistance

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SEFA in Mozambique

A) Promotion of Renewable Energy in Mozambique (under the Enabling Environment Window)

- **Standard Power Purchase Agreements:** Reduction in transaction period
- **Guidelines for grid connection of small RE and Guidelines for Investing in RE:** What happens when the grid arrives; ownership model; feed-in tariff vs net metering
- **Tariff Structure and Design for Mini-grids and Technical Regulations for mini-grids:** Co-operative model, light-handed regulation, etc.
- **Environmental Regulations & Standards for Mini-grids:** biomass-based fuels & disposal of solar panels & batteries; impact on flora/fauna for small micro/pico generation plants.
- **Capacity Building:** Usually the private sector is “more informed”

B) Considering a Preparation Grant for a Wind Project

Expected to reach financial closure in last quarter of 2018

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Q & A.