



**MICROENERGY**  
CONSULT

## Africa

Mozambique



## Hybridization (Solar/Diesel) of Two Mini Grid Systems



Services

Technical Assistance



Topics

Clean Energy Technologies



Date

February – July 2014



Partners

Inensus



Clients

Fundo de Energía (FUNAE),  
Belgian Technical Corporation  
(BTC)



Beneficiaries

Remote off-grid  
communities,  
households and SMEs

### Project Description:

MEI was commissioned to conduct a pre-feasibility of hybridization of two mini-grid systems operated by diesel generators, carry out an in-depth feasibility study in one location and provide a design of a solar/diesel hybrid mini-grid electrification system, considering the state of the art technology as well as a sustainable management model.

### Services Provided:

- Pre-feasibility study for the hybridization of the mini-grid including expected viability of a hybrid system implementation and long-term sustainable operation
- Preliminary hybrid system design and sustainable management structure
- Preparation of all documentation needed for the implementation of the hybrid solar-diesel system in the villages fulfilling all necessary and recommended international standards
- Technical Design Package for the hybrid system including design of changes required to the existing electric system; technical Terms of Reference of components; design of infrastructure required to operate the system (buildings, fencing, support structures, etc.), and guidelines for an appropriate energy delivery model



7 AFFORDABLE AND CLEAN ENERGY



11 SUSTAINABLE CITIES AND COMMUNITIES



12 RESPONSIBLE CONSUMPTION AND PRODUCTION



13 CLIMATE ACTION



Energy technologies & energy uses:



Solar



Mini Grid

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