

Sociedade Salesiana Moçambique

Rural Capacity-Development Program Moatize



Use of Renewable Energies, a Challenge!

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apoiado pela

Cooperação Austríaca

para o Desenvolvimento



JUGEND EINE WELT

Total Primary Energy Demand

- Total Primary Energy Supply (TPES) is 408.9 Peta Joules (PJ);
- Needs met by
Biomass: 78%,
Hydro: 13%,
Fossile: 7%
other resources: 2%



Situation

- 80% of the district is not electrified
- Government promotes the use of renewable energy through isolated systems in rural areas

Needs

Agricultural Center

- Keep vaccines cool
- Store seeds
- Train farmers
- It would be ideal to open a hole for water abstraction at the Center for Agricultural
- The center should be equipped with a solar system that will allow to power a laptop and a data show.



Electrification of stables of goats



Solar water pumping system

This system
require much effort
to have water



This system does not
require effort
to have water

Use of wells



Water for cattle Challenge



Watering with buckets and watering can

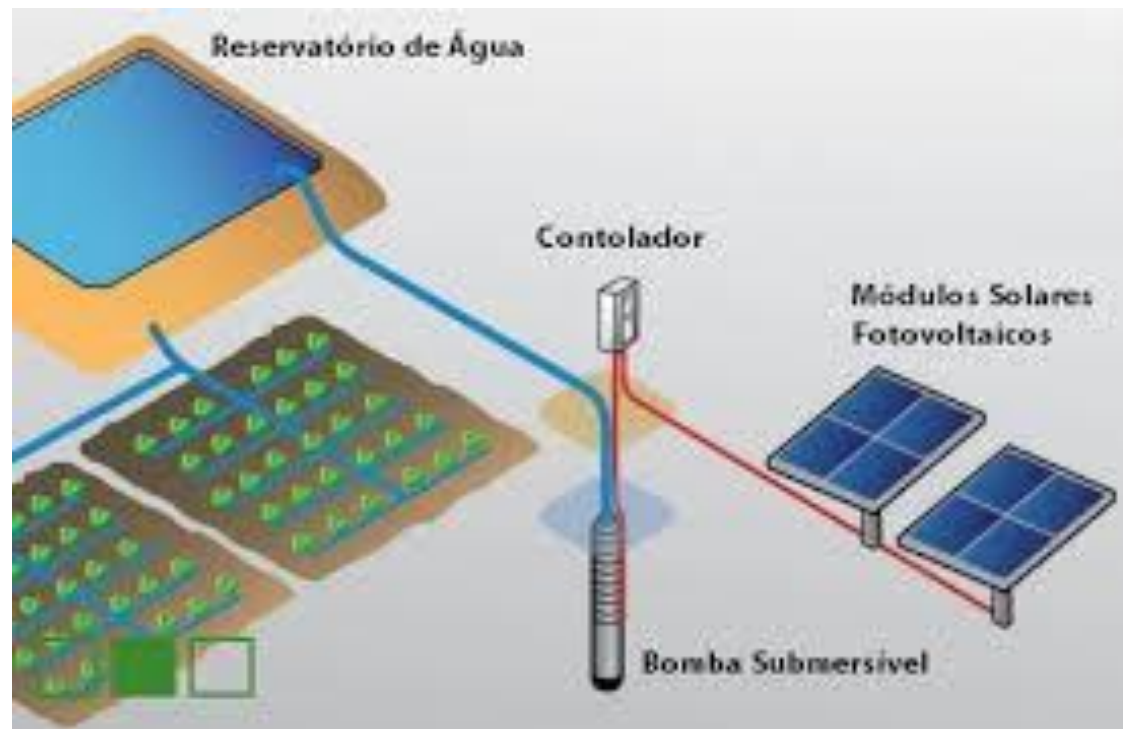


Treadle pumps



Diesel Pump





Electrification of Rural Institutions

- Rural institutions, like schools, health centres, shops, among others can benefit from electrification using renewable energies

Cachoeira Primary School



Electrification of Rural Institutions



Household electrification

- Most households use kerosene and candles for lighting
- Solar panels improve the lighting and can also be used for charging the cellphones

house - Real situation



Example of Households Electrification in Rural area



Business - mobile recharge



Maintenance strategy for sustainability

- Formation and training of management of photovoltaic system for management and control committees. These are within an agro-livestock association.
- Train young Vocational in Matundo Technical School for repair and maintenance
- Small contribution to be managed by the association

Conclusions and Recommendations

- Renewable energies have huge potential, but are not yet well known
- Need for comprehensive programs of awareness raising, with focus on pilot/demonstration projects with a very strong component of training
- Replication of successful experiences has to be promoted
- Sharing of information and experiences among the different actors is essential

Tatenda Kweni-kwini

Zikomo-Kambiri

Thank you

Danke