

REPÚBLICA DE MOÇAMBIQUE MINISTÉRIO DA EDUCAÇÃO

Green Skills Development in Africa Experiences from Mozambique





Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH

Challenges and Oportunities for Clean Energy

- Energy is a priority area for economic development;
- Current energy production (by EDM): 18 000 MW/year;
- Access to electricity supplying system:
 - ✓ 23% of the Mozambican population;
 - ✓ extended to all the country's 128 districts.
- Renewable energies placed second priority development area within the National Energy Strategy;
- National and Foreign Investments mobilized for REdevelopment (biomass, hydro, solar, wind, ocean and geothermal energies);
- Development of "Feed-in-tariff" for renewable energies;
- FUNAE (National Energy Fund) for production and supply of energy at lower cost;

Mozambique Energy Sector: Overall Potential

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Table 1: Types, location and potentials of energy resources

Resources	Sites	Potential
Coal	Zambezi basin	20 billion tons
Natural Gas	Offshore & On Shore	127 billion m3
Biomass	Countrywide	8.9 million ha
Hydro	Zambezi Valley & other sites	12 000 MW (small Hydro >1 000 MW)
Solar	Countrywide	1.49 million GWh (5.2 kWh/m2/day)
Wind	Coast & Niassa Provinces	Speed 5 m/s(> 6 m/s in some areas)
Geothermal	Tete, Manica &	Conservative estimate of 25 MW
	Niassa Provinces	

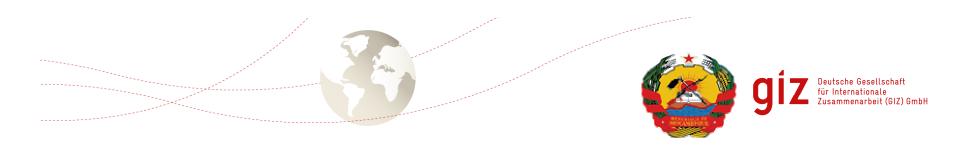




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Qualification and Training Approaches

- Skilled worker demand study in the Energy area;
- Integration of RE-technologies in the National Qualifications Framework;
- Energy Qualifications developed for all the three levels of TVET;
- MSc and PhD training programs in RE-Sciences and Technologies in Mozambican Universities promoted by MCT;
- Reference training laboratory for RE (IIM) and ICT (IICB) installed;
- **RE-Training of trainers (and others) in Germany and Mozambique;**
- NEER (Electronic Nucleus for RE) at Pedagogic University: offers research and training of the Trainers,
- Institute for Physical Planning and Environment: promotes clean energy in economic sector.



TVET – Steps Forwards and Challenges on RE

- Greening of Curricula and Schools;
- Identification of Green Skills on existing occupations and specializations;
- Increase training of Teachers, Tecnicians and Communties,
- Develop short-term occupational training for entrepreneurs and others;
- Develop institutional capacities for specification, maintenance and reparation of energy equipment and systems.





Thank you very much for your attention.