

Energy Refurbishment of Four Health Centers in Lesotho

THE PROJECT

Energy requalification project in the health centers of Sepinare, Palama, Khabo and St. Denis, and in the district of Leribe. Existing systems will be optimized and recovered, (2 of the 4 sites already have photovoltaic systems); new photovoltaic systems will be installed for the production of electricity and for heating water; energy efficiency measures will be implemented, (replacement of doors and windows; replacement of halogen and incandescent lamps with LED lighting; installation of electric heating systems; installation of a control panel which can, in times of electricity shortage, bring together the one that can be used at the points of greatest need within health centers).

CONTRIBUTION TO

➡ [Lesotho NDC](#): increase energy from renewable sources by 200 MW by 2020, (40 MW from solar energy; 35 MW from wind; 125 MW from hydroelectric).

➡ [2030 Agenda](#): Goal 7 - Sustainable energy; Goals 13 - Actions for the climate.

BACKGROUND

Currently, energy demand in Lesotho exceeds production capacity by about 50%, making the country dependent on imported fuels, mainly from Mozambique and South Africa. However, the country has significant potential in terms of renewable energy which, if properly exploited, could guarantee energy independence.

OBJECTIVE

Increase the use of renewable energies and energy efficiency.

PLANNED ACTIVITIES

- Assessment of the energy situation in the 4 health centers and recovery of existing systems, where possible.
- Call for tenders for the implementation of energy efficiency measures and for the maintenance of installed systems.
- Tenders for the supply and installation of photovoltaic systems and related commissioning.
- Training of state officials and local technicians for the use of new technologies and dissemination of results.

SUBJECTS

Promoters:

- Italian Ministry of the Environment, Land and Sea
- Ministry of Energy and Meteorology of the Kingdom of Lesotho

Actuators:

RINA

DURATION

24 months

(Project not started yet, dates to be defined)

TOTAL COST OF THE INITIATIVE

€ 730,000

Lender: MATTM

Other lenders: ---

OUTPUT

- Energy analysis carried out on the systems present in the health centers of Sepinare, Palama, Khabo and St. Denis, and systems recovered, (where possible). ✓
- Energy efficiency interventions carried out. ✓
- Photovoltaic systems installed in the 4 health centers, (37 MWh/year of self-produced electricity in the centers of Sepinare, Palama, Khabo, and 40 MWh/year in the center of St. Denis). ✓
- 30 state officials and 15 local technicians trained.
- 2 dissemination events of the achieved results.

PROJECT STATUS

✓ realized to ✓ in progress

