

Lesotho microgrid benefits

Solar PV mini-grid technology is a suitable option for rural electrification in Lesotho due to the country's abundant solar energy resources. Lesotho relies heavily on biomass and imported fossil fuels for energy. Switching to solar PV can significantly reduce the carbon footprint.

OnePower, founded by MIT alumni Matt Orosz and Amy Mueller, is building minigrids in rural regions of Lesotho to provide reliable electricity to thousands for the first time.

The project aims to pilot Independent Power Producer (IPP) mini-grid technology in Lesotho, and demonstrate that they can be a superior sustainable solution for rural energy access. The successful mini-grid model that project partner Gram Oorja has applied in over 60 remote rural communities in India will be adapted to create an innovative ...

National University of Lesotho Modelling and optimization of micro grids for rural areas in Lesotho (component sizes for technical and economic feasibility) ... Fig 2.1 Micro grid development cost sharing in USA.....16 Fig 2.2 Global investment in renewable power from ...

Unlike its African neighbours, Lesotho has no minigrids installed. This project aims to introduce minigrid technology into Lesotho, and demonstrate that they can be a superior sustainable solution for rural energy access.

"Before OnePower electrified the clinic, we were not able to use the baby-warmer machine as it required more energy. It was a challenge for us and the mothers who came here to deliver their babies. Sometimes we had to tend deliveries at night and one was obliged to go outside to start the generator first and then come back to the delivery room to be able to use the baby-warmer.", laments Lekhanya.

"We are now able to use all medical equipment because we have more electricity at the health center." explains Lekhanya happily. She further explains that they also use the surplus electricity to light the nursing staff and patients' houses at the clinic including using electric appliances such as kettles and irons



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