

OnePower Lesotho

- Solar startup based in Lesotho
- Mini-grids as well as industrial scale solar projects
- Focus on rural electrification



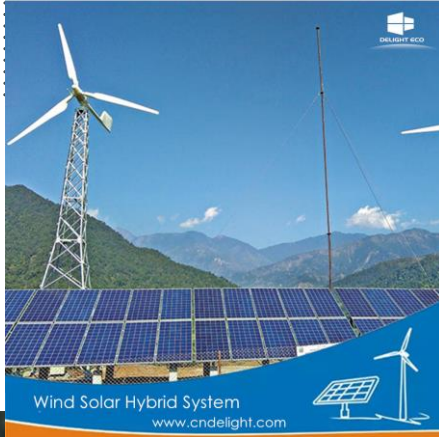
Electricity in Lesotho

- 71% rural population
- Energy in urban areas subsidized by semi-state owned utility
- Rural electrification extremely expensive
- Power mostly all from South Africa
- Rarely expands the grid



Alternative Resources

Building mini-grid simulations with different resources for future one power projects



- Wind mini-grid simulations using hypothetical wind data
- Hydro mini-grid simulations using hypothetical stream data
- Goal of toggling all three resources



..... My work on mini-grid models



Solar Availability

Determine solar availability throughout the year



Mini-grid Composition

Determining petrol vs solar generation capacity



Project Finance

Minimizing loan principal required for projects



Accounting for Price Elasticity

Ensuring changes in tariffs are reflected in demand simulations

**Thank you to the Energy Access
Project!**