Data Portal for Rural Electrification in Namibia

Sarat Buasai, Benen ElShahks, Brian Kelsey, Leigh Whitehorn
Overview

- Background
- Needs Statement
- Methodology
- Deliverables
- Impact
“Having access to electricity creates and unlocks potential... It equips us to excel in terms of the business opportunities and subsequent economic growth it opens up for us.”

Former Honorable Minister of Mines and Energy, Mr. Isak Katali
Benefits of Electricity

- Internet connection
- Availability of x-rays machine in hospitals
- Radios and TVs
- Microwave
- Fans
- Hot Water
- Light to study at night
- Charging a cellphone
- Preserving food
Vision 2030

“A document that clearly spells out the country’s development programs and strategies to achieve its national objectives.”
Vision 2030: Electrification Plans

Only 9% of rural communities had electricity in 1997.

Rural Electrification Master Plan: electrify all schools.

By 2018, 19% of rural communities have electricity.

The goal is to electrify all schools by 2030.
There is a need for a method of data sharing and communicating future plans with other organizations involved in rural electrification efforts.
Data Portal

PAST EFFORTS + CURRENT PROGRESS + FUTURE PLANS = EFFICIENT ELECTRIFICATION IN NAMIBIA
Methodology

Interviews

Data Gathering Process

Survey
Data Gathering Process

Discussion

Data Request

Consolidate
Survey

Gather

Analyze

Improve
Deliverables

DATA PORTAL

MANUALS

RECOMMENDATIONS
5 Main Concepts and Capabilities
Electrification Status

With Colors and Shapes
Satellite View
Zoom into specific locations and buildings to visualize the layout.
Socio-economic understanding will assist in making future electrification plans.
Deliverables

DATA PORTAL

MANUALS

RECOMMENDATIONS
User Manual

To provide instructions of how to use different features

To ensure users know how to update data
To provide instructions for the moderator regarding upkeep and additions to dashboards

To promote sustainability for the system created
Deliverables

- DATA PORTAL
- MANUALS
- RECOMMENDATIONS
Recommendations

- A DATA STORAGE SYSTEM
- AGREEMENT TO MAKE REGULAR UPDATES
- REGULAR MEETINGS BETWEEN STAKEHOLDERS
Limitations

VALIDITY OF THE DATA

TIMELINESS OF RECEIVING DATA
Impact

“This will help to provide instant information... on the go.”
Ministry of Education, Arts and Culture

“This is a huge opportunity for strategic planning.”
Dr. Clemens von Doderer, Country Director of Namibia from the HSF

“A [heck] of a contribution to rural electrification.”
Dr. Clemens von Doderer, Country Director of Namibia from the HSF

“the best method for those categories of institutions to coordinate what they are doing.”
Lahja Amaambo from Laci Lahja Amaambo Consulting
Acknowledgement

Advisors: Professor Joseph Doiron and Professor Bethel Eddy

Sponsor: Hanns Seidel Foundation

Interview and Survey coordinator: Mr. Rodney Seibeb from HSF and Mr. Leonard Nekwaya from Ministry of Mines and Energy

Key stakeholders who participated in our interviews and provided data portal survey feedback

Colleagues: Treasure Pelepele from HSF and the Namibia D19 IQP team
Questions?
Citations

