Project Anwu

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Executive Summary

Aspire Power Solutions

Situation

Complication

Recommendation

Aspire Power Solutions

• Started in 2016 by Duke MEM/MBA & 2 co-founders
• Retail (< 50 kW) and Project Development Ventures (> 50 kW)
• Providing Nigerians a better energy experience

• Initial call notes
• First rural electrification project
• 6 communities located in SE Nigeria

• Invest with the community, not in the community
• Lack of Data
• Financially Feasibility

• Utilize programs for electricity subsidization
• Solidify Partnerships
• Use financial tools at disposal
Project Background

Project Anwu was broken into 3 steps

1. Community Surveying & Data Collection
2. Data Analysis & Energy Load Profiling

Executive Summary

Project Background

Data Collection Methodology

Results

Recommendation
Survey Data Collection

150 Households & 81 Businesses in SE Nigeria Surveyed in June 2020

- Four Community Surveyors
- 5 Days
- 800 Pages of Data
- Rural Nigeria → Durham, NC, USA
Mapping Data Collection

Every structure was tagged and a representative sample for each community was measured

3,700 Structures Tagged

1,465 Structures Measured

Top & Bottom 5% Eliminated as Outliers
Results – Community Load Profile

Community uses 43,752 kWh of energy each month with a peak daily load of 123 kW

- Average household uses approx. 35.6 kWh/month
- Average household spends approx. ₦ 8,277/month
- Average business uses approx. 119.1 kWh/month
- Average business spends approx. ₦ 37,359/month
Aspire remains the on-ground developer but uses key technology partner

Remote Pod:
- Remote Monitoring
- PAYGO Operations
- Power Sharing
Recommendation

Aspire Power Solutions should proceed with the development of Project Anwu if the following three factors are met:

1) A subsidization of $350 per connection through the Rural Electrification Agency is granted

2) Aspire will need signed contracts from several partners:
   a) Partner A
   b) Partner B
   c) Partner C

3) A special purpose vehicle (SPV) be created and placed under the Aspire Power Solutions Holding umbrella.
Thank you