Sustainable Energy and Agro-Processing Hubs in Kamwenge district

Uganda

Pamoja Cleantech AB
About Pamoja Cleantech AB

**AFFORDABLE** and **CLEAN** Energy for All

- Provide Energy Services to rural communities
- Operate decentralised renewable energy units based on biomass and solar
- Develop Productive Use through Entrepreneurial and Agroprocessing Hubs

Swedish for-profit social enterprise funded in 2010 with operations in Uganda, Mozambique and India.
Basis of the business model

- **Two 32 kW Micro-grids set up in Uganda**
  - Connecting 250 customers
  - Lack of profitability due to domestic usage

- **New site selection**
  - Isolated Trading center in Kamwenge district
  - 562 households
  - 3237 people

- **60 kW biomass gasification system**
  - Runs on maize residues (cobs)
  - 5 trained Operators and a Site Manager

- **Electricity tariff**
  - Single-phase customers
  - Industrial customers (3-phase)
  - No Connection fee
  - Basic Internal wiring provided
Basis of the business model

• **End users:**
  - Agro-processing hub: aggregation, cleaning, drying and storage (>20 kW)
  - Entrepreneurial activities (<15 kW)
    - Local Agro-processors
    - Food preservation
    - Irrigation
  - Domestic users (~0.3 kWh/day)

• **Promotion of Productive Use**
  - Business Incubation Program
  - Revolving Fund for Electric Appliances
  - Fair Price Policy
LESSONS LEARNED & EXPECTATIONS

• **Success factors**
  - Identification of Productive use activities relevant in the local context
  - Partner engaged in the maize value chain for Market knowledge
  - Early identification of product off-takers

• **Expected results**
  - High quality maize and possibility of harvesting earlier for higher price
  - Processing of 1000 tons of maize per season
  - Storage of 300 tons of grain

• **Lessons learnt**
  - Site-dependant Concept
  - Access to Finance and Business development skills for Economic impact
  - New Partnerships for PU
Thank You

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