

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.

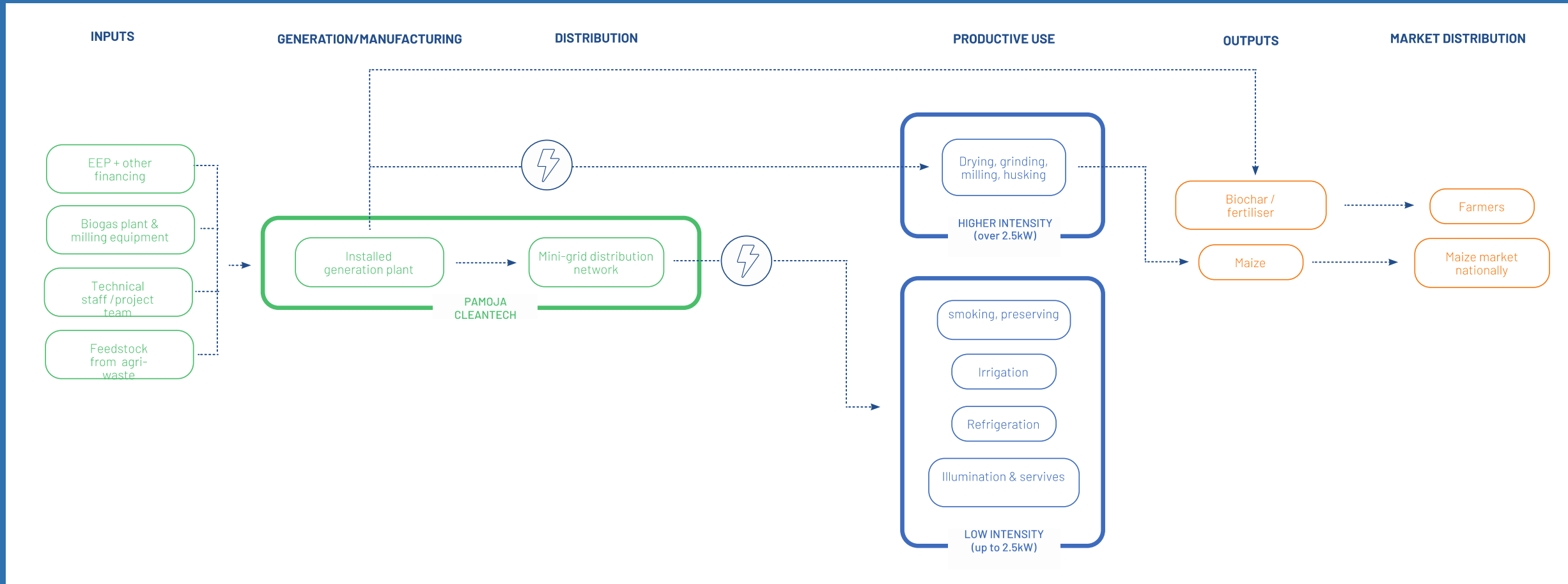


Basis of the business model

- **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



The Pamoja Cleantech value chain



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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