

Project Developer
Mandulis Energy

Mandulis Energy is a Ugandan-founded company that develops renewable energy projects in emerging economies and deploys new technologies and approaches to address the energy access 'trilemma'.



BIOENERGY POWERING AGRICULTURE AND RURAL LIVELIHOODS (BEPeARL)



MANDULIS ENERGY

Total Project Budget
EUR 1 675 900

EEP Africa Financing
EUR 500 000

Project Partners
REPARLE Ltd.,
HoST-BV

Type
Demonstration project
Mini-grid stand-alone

Project Code
UGA16793



Technology
Waste-to-energy

Location
Uganda



This project aims to demonstrate an innovative technology and business model for converting agricultural waste into electricity and biogas for households and small businesses. A Ugandan aggregator and processor of farm produce will provide feedstock and serve as the anchor client. The electricity generated by the installed biodigester will power grain mills at the agro-processing facility, as well as a microgrid for local households. The biogas will be stored in pressurised gas cylinders and sold to schools, hospitals, businesses and households for cooking. EEP Africa financing will enable Mandulis Energy to cover the high capital expenditure required for the digester and mini-grid.



Outcome and Impact

This project will demonstrate a circular economy model that improves the income of 4,000 small farmers, of which 50% are women. Affordable electricity will be provided to 75 households, public entities and C&I clients and cooking gas will be sold to 550 customers. By displacing diesel, wood and charcoal, the project expects to reduce 4,555 tonnes of CO_{2e} emissions per year and generate significant savings on energy-related costs.

EEP Africa is a financing facility for early-stage clean energy projects in Southern and East Africa. It is hosted and managed by the Nordic Development Fund (NDF) with funding from Austria, Finland and NDF.