

WASTEWATER AND BIOGAS TECHNOLOGIES IN RURAL UGANDA

PROMOTE

- Renewable Energy
- Skills Transfer
- Biogas technology
- Local Jobs

FIGHT

- Climate Change
- Fossil Fuel Dependence
- Island Disaster Risks
- Chemical fertilizers

KEY FACTS

160 k tonnes of CO₂ avoided until 2017

1,800 growers benefit natural fertilizers

25 local permanent jobs created

- Carbon program operational since 2013
- Registered under CDM and VCS standards
- Verified by Carbon Check auditors
- APX registry ID number 1393
- CDM registry ID number 9620
- Located in Lugazi, Uganda.



SUPPORTING BIOGAS ENERGY AND WASTEWATER TREATMENT TECHNOLOGIES IN EASTERN AFRICA

First ever wastewater treatment plant set up by sugar factory in rural Uganda.

Sugar Corporation of Uganda's Anaerobic digestion and heat generation project is an Effluent Treatment Plant (ETP) processing vinasse waste generated by its new distillery. Anaerobic digestion avoids methane emissions due to the vinasse decomposition. The biogas collected is combusted into a boiler to produce heat. Sludge surplus from the digestion process are used as manure for sugarcane fields.

Industry, innovation and infrastructure. A first in Uganda, this project avoids fossil-fuel for boiler's operation and chemical fertilization of sugarcane fields thanks to state-of-the-art circular recycling. **Ensure sustainable consumption and production** patterns through biogas recovery for fossil-free heat production & reduction of chemical inputs thanks to the production of natural fertilizers using bagasse. **Climate action.** Emission reductions arise primarily from methane avoidance thanks to chemical activity reduction effect on CH₄ intensity of the wastewater reactor, and secondarily from heat generation based on the recovered biogas instead of fossil fuel CO₂ emissions.

UN SUSTAINABLE DEVELOPMENT GOALS

Decent work and economic growth for 25 permanent full time staff at above-law wage levels and social benefits (free housing and medical facilities, covered/subsidized tuition fees children).