

Pilot Waste-to-Energy Project in the Biogas Sector



Haiti / Latin America and the Caribbean

PROJECT DESCRIPTION

- Biothermica Technologies Inc. used an innovative waste-to-energy technology in Haiti to convert municipal solid waste (MSW) into renewable biogas, significantly reducing methane emissions.
- The project prioritized mangrove preservation, empowering communities, fostering sustainable development, and gender equality.
- Since 2017, a unique public-community-private partnership, led by Bioénergie Haïti, has been collecting MSW in Gonaïves, Haiti and protecting the mangroves.
- Plans are underway for an engineered sanitary landfill with biomethane production technology that will be used as fuel by waste collection vehicles and as bottled gas in substitution of propane and wood/mangrove for local biodiversity conservation.



ANTICIPATED RESULTS

- Anticipated reduction of 6 million tons of equivalent CO₂ emissions, cumulatively, mitigated over 30 years.
- Reduction of the reliance on imported fossil fuels in Haiti by providing 450,000 people with affordable access to clean biogas for cooking and fuel.
- Preservation and revitalization of the mangrove, safeguarding its ecosystems and biodiversity.
- Improvement of public health, sustainable development and the local population's resilience to climate change.

PARTNERS INVOLVED IN PROJECT

- Biothermica Technologies Inc.
- Terre des Jeunes Transnational
- Bioénergie Haïti



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