NIRSAL-ASTEVEN EE/RE Climate Smart Agriculture Initiative: BIOGAS

Expected project CAPEX: 59'944'000 €

Mandating Authority:
Nigerian Incentive Based Risk Sharing System for Agricultural Lending (NIRSAL)

Project Type: Waste-to-Energy

Summary
NIRSAL has engaged ASTEVEN GROUP to consult them on Renewable Energy and Energy Efficiency, and has proposed to the government to submit this biogas program. Through this program in multiple Nigerian states, an entire value chain will be kick-started with the deployment of high technology slaughter house models, bio-gas collection and power generation.

Location and population
Nationwide
Nigeria

Social and environmental impact
Creation of massive job opportunities in both the agricultural and clean energy sectors; reduction of fossil fuel use and reduction in use of generators; reduction of GHGs; contribution to SDG 2, 6, 7, and 13.

Main stakeholders
Nigerian Incentive Based Risk Sharing System for Agricultural Lending (NIRSAL) / ASTEVEN Group and Partners / 36 State Governments
**Project maturity (IFC / World Bank Categories)**

**STAGE 1 : Concept Development, Site identification**

Expected capacity (Input-Output)
26 MW (Total expected capacity for 24 locations)

Land identified
Yes

Site access:
- ✓ Adequate road
- Rail access
- Port facilities

Technology:
Waste (abattoir, manure, agricultural) to Energy (Biogas-digestor)

Waste stream data
To be confirmed by prefeasibility and feasibility study

**STAGE 2 : Pre-Feasibility Studies**

Pre-feasibility study: No

**STAGE 3 : Feasibility Studies**

Feasibility study: No

**STAGE 4 : Permitting / Financing / Contracts**

Land concession signed
Under negotiation

Building permits signed
?

Environmental impact study
Compulsory: the procedure is clear and will be done in due course as the studies will be site-specific

Identified sources of fundings
To be determined

**STAGE 5 : Engineering / Construction / Commercial Operation**

Engineering, Procurement and Construction Contractor
ASTEVEN GROUP and Partners, BG Ingenieurs Conseil S.A.

Operation and Maintenance Contractor
ASTEVEN GROUP and Partners.

Comments
NIRSAL is an SPV of the Central Bank of Nigeria’s agricultural sector financial intervention up to 500 million USD.