Company / implementer: Grupo Aliar Porcícola

Sector: ISIC 0144 Pig farming

Location: Hacienda Machijure Puerto Gaitán, Meta. N 04° 09' 57", W 72° 08' 08".

Update: 02 Feb. 2018

Results
- Treatment and use of **10,220 m³/year** in pig farm effluents.

Other benefits
- Savings:
  - USD 108,274 in the use of manure for fertilization. In addition, no fertilizers were purchased since manure is added in the appropriate proportions according to the requirements of the soil (720 kg nitrogen/ha per year).
  - Non-monetary savings:
    - Irrigation of 1,656 ha with manure.
    - Reduction of odors and volatile organic compounds.

Supplier References
Supplier: Internal development

Implementing Company
Company in charge of implementing the solution: Grupo Aliar Porcícola.

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Description
The biodigestion process consists in the digestion of manure from pig farms. This process produces methane gas, carbon dioxide, and manure. The gas is used to generate electricity.

Manure is an organic fertilizer rich in nitrogen (1.2 kg/m³), phosphorus (0.24 kg/m³) and potassium (0.85 kg/m³), which is added to the soil used for livestock farming.

These values lead to savings in energy and fertilizer consumption.

Investment and Operating Costs
- Implementation Costs: **470,846 USD** in the construction and commissioning of biodigesters.
- Operating Costs: **53251 USD**.
- Life span: Approximately 20 years.

Cases of Application
- N/A

References
- Good practices and technology sheet:
  - Generation of energy through biogas at pig farms.

SDG: 6.3 Improvement in water quality