

Bio-Terre Systems *inc.*

Low-temperature anaerobic treatment of hog manure
and transformation of biogas into green energy.



M. Ali St-Hilaire :
Pork producer...
Energy producer

Green energy
beyond your demand

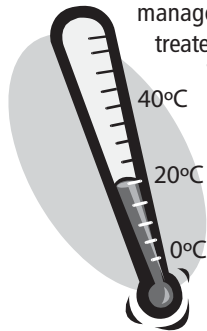
Low-temperature anaerobic treatment of hog manure and transformation of biogas into green energy.

With a desire to implement sustainable practices, Mr. Ali St-Hilaire chose Bio-Terre Systems as a manure treatment process for his swine farm producing 10,000 hogs per year. This innovative system produces green energy, generating significant operating revenues for the farm.

PROCESS

Bio-Terre Systems is commercialising a low-temperature anaerobic digestion technology for animal waste treatment developed and patented by Agriculture and Agri-Food Canada. The system operates at temperatures between 15-25°C allowing, excellent energy utilization through combustion of biogas, and optimal nutrient management by the spreading of treated manure on agricultural lands.

The process is simple, effective and adapted to operation on farms.



RENEWABLE ENERGY

- Potential of 200 000 m³ CH₄ per year
- Possibility of generating 60 kW of electricity and 120 kW of thermal energy
- 80% of the energy produced is available for the farm

MANURE ENHANCEMENT

The treated manure, with added agronomic value and free of odour and pathogens, is an excellent substitute to mineral fertilizer.

The N, P, K content is balanced to match crop needs.

NET GREEN HOUSE GAS REDUCTION

Parameters	Tons of CO ₂ Equivalent
Net decrease of CH ₄ atmospheric emissions	Up to 770 tons
Net decrease of N ₂ O atmospheric emissions	Up to 165 tons
Fossil fuel replacement	Up to 165 tons
Mineral fertilizer (N,P ₂ O ₅ ,K ₂ O) substitution	Up to 330 tons



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