





Our unique TERMIX™ process



[TERIX-Envirogaz's TERMIX™ biomethanization process](#) is a unique three-step approach. The process, proprietary to TERIX-Envirogaz in North America, has shown, through its various installations, a level of performance, ruggedness, and efficiency that is second to none.

The TERMIX™ process produces up to 30% more biomethane than the normal process, allows for a greater variety of inputs, and all this with a very short retention time (10-15 days).

The TERMIX™ process ensures the disposal of all pathogenic bacteria. It also makes solid waste extracted from this process ready for land farming. Moreover, TERIX-Envirogaz's modular systems and equipments shorten delivery lead time during component implementation in a biomethane production plant. All this results in lower on-site manpower needs and improved plant quality and efficiency.

Benefits

- **Performance**
 - Produces more biomethane per ton of input
 - Process produces up to 30% more biomethane

- **Flexibility**
 - Variable quality and quantity of inputs
 - Digester design allows for a 300% annual tonnage variation

- **Ruggedness**
 - Ensures complete digestion and hygienization
 - Eliminates all risks of contamination or odour production

- **Simplicity**
- Industrial modular sub-assembly approach
- Sub-assemblies designed and manufactured in modular containers

TERMIX® PROCESS

More than 20 installations in 5 countries.

Organic Cracking

Bio-Reaction

Bio-Digestion



Organic Cracking

- Breaks long-chain proteins, greases and lipids.
- Acid environment using thermophilic bacteria*.
- 70 or 55°C temperature.

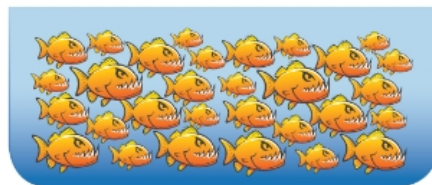
Bio-Reaction

- Intense thermophilic bacteria that transforms organic material in methane and carbon dioxide.
- 70 or 55°C temperature.

Bio-Digestion

- Mesophilic bacteria that completes the non-digestion from the last process in methane and carbon dioxide.
- 37°C temperature.

* Thermophilic bacteria are 4 times more intense than mesophilic bacteria.



Thermophilic Bacteria



Mesophilic Bacteria