

ARTOIS MÉTHANISATION, Graincourt-les-Havrincourt (62)

Territorial project – Reuse of organic waste as energy

Customers

Since January 2012, “the major waste producers are required to sort and reuse organic waste”.

Located in the heart of an agricultural region looking towards the agri-food industry, the Artois Méthanisation site is an environmentally responsible proximity and reuse site for:

- the agri-food industry,
- towns and activity areas,
- supermarket distribution.



Requirements

- To process highly diverse flows of bio-waste.
- To propose both agronomic reuse of and energy recovery from waste.
- To create a positive environmental footprint and to ensure durable operation.

Solution: Biomet™

Biomet™ guarantees energy and environmental performance by combining, within two separate structures:



- **hydrolysis:** breaking down the mixture with hydrolytic bacteria so as to obtain greater availability from the organic matter;
- **anaerobic digestion:** producing biogas through the action of methanogenic bacteria.

Advantages

Performance

- Ensures the production of 10 - 20% more biogas than conventional digestion processes.

Flexibility

- Capable of processing all types of waste.
- Can be adapted to future changes in waste sources.

Ease of operation

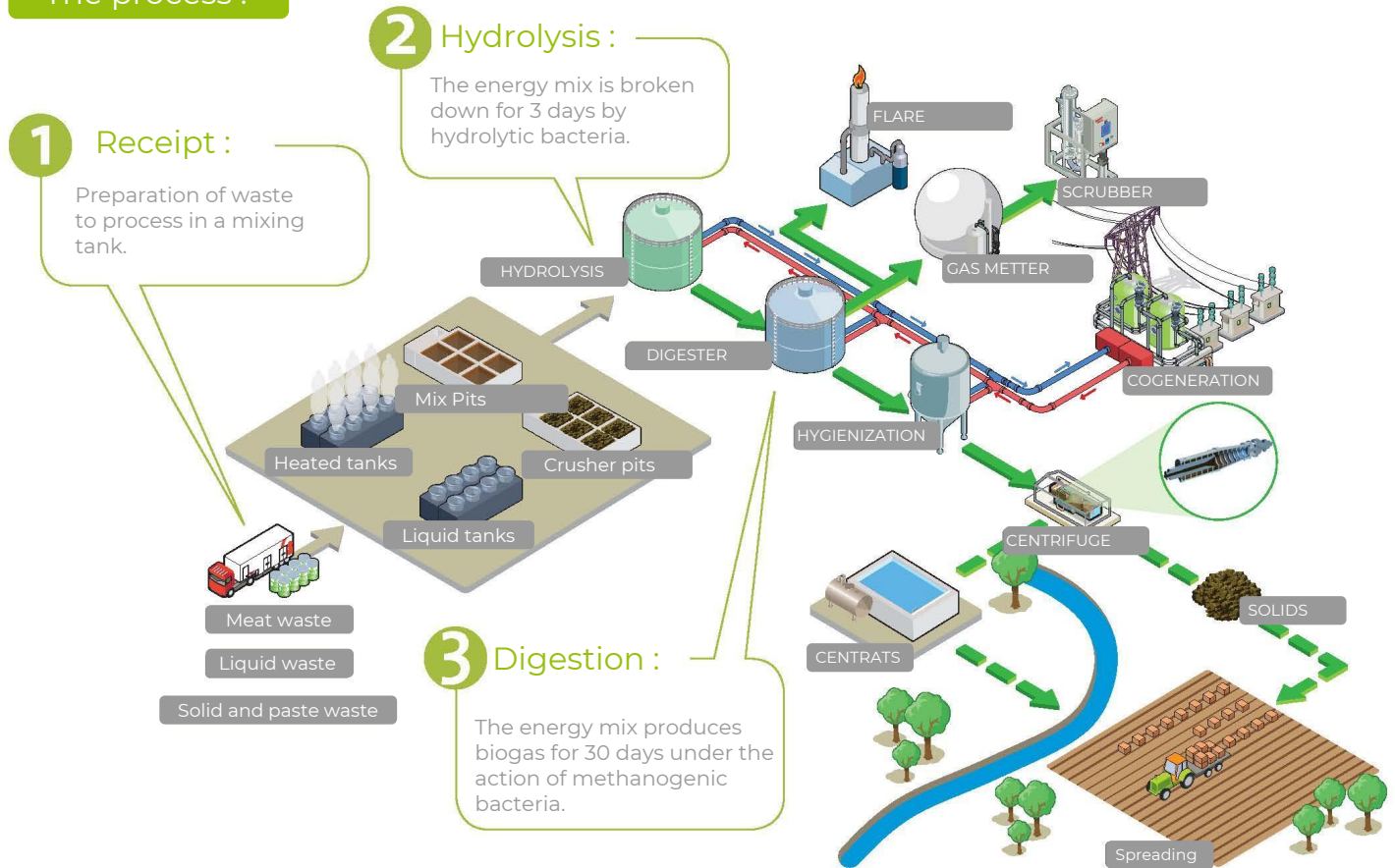
- Remains stable when faced with variations in the loads to process thanks to the hydrolysis stage.
- Facilitates maintenance thanks to mixing and heating systems outside of the works.

Compactness

- Reduces stay times and therefore the size and amount of ground space taken up by the works (by 25 to 50%).

Plant operation

The process :



- Hydrolysis and digestion are performed in two separate tanks
- No risk of imbalance between the various methanation steps



Key figures

- Quantity of waste processed
32,000 tons/year
- Electric power produced
8,000 MWh/year

- Digestate production
7,000 tons/year
- Duration of work
1 year
- Commissioning
April 2012