ECONWARD TECH

BIOMAK®

THERMAL HYDROLYSIS PRETREATMENT TECHNOLOGY FOR ORGANIC SOLID WASTE

ECONWARD TECH , SLU
C/ Alcalá 21, 10º Dcha.
28014 – Madrid, Spain
+34 911 441 324
info@econward.com

ECONWARD TECH , LLC
401 Wilshire Blvd. 12th Floor,
Santa Monica, CA 90401, USA
+1 (844) 669 6610
info@econward.com

The most efficient, frontier technology for sustainable Municipal Solid Waste management

We are a global technology company that has developed an innovative solution for treating, recycling and recovering the organic fraction of solid waste and residuals

8 t/h

65,000 t/year
per module

Scalable and modular

Adaptable, easy integration

Small footprint

270 m² of area required
per module

Residence Time

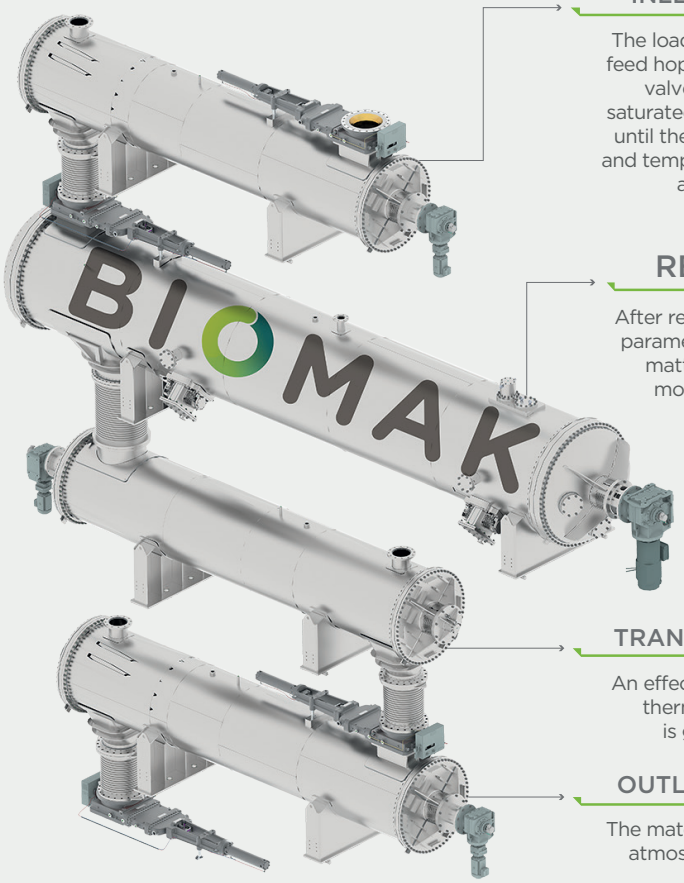
20 minutes

Automated

in-house
software development

Continuity

High energy efficiency



INLET CHAMBER

The load enters through a feed hopper, the hydraulic valve is closed and saturated steam is injected until the desired pressure and temperature conditions are reached.

REACTOR

After reaching the preset parameters, the organic matter changes its morphology and properties.

TRANSIT CHAMBER

An effective and efficient thermal hydrolysis is guaranteed.

OUTLET CHAMBER

The material is unloaded at atmospheric pressure.

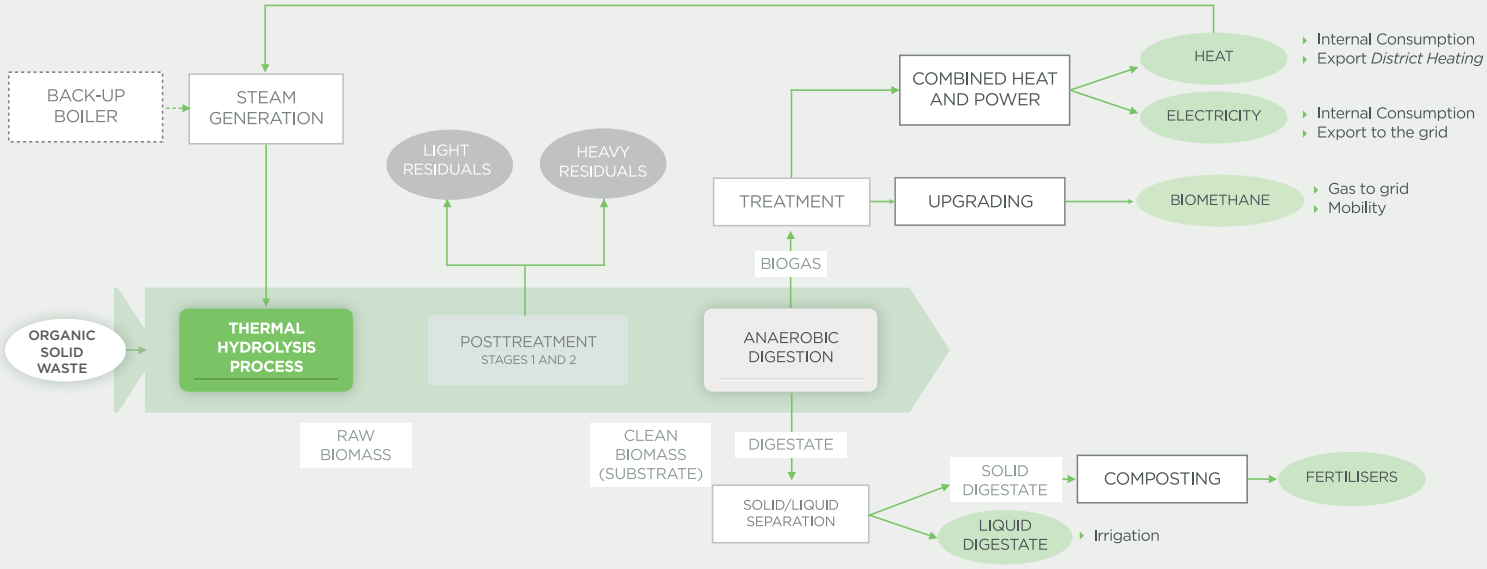
The system is synchronised to reuse the steam from the depressurisation for a new inlet chamber pressurisation process.

We transform organic waste into a biomass with various certified applications

Hygienised, homogeneous, biothermally stabilised, free of pathogens and chemically degraded.

Biomak® is easy to integrate at the front end of a full Anaerobic Digestion plant

High efficiency in the separation of organics and increased biogas production



+25%

Increase in specific biogas production

+30%

Increased treatment capacity

+90%

Greater recovery of organic matter
Efficiency in residuals separation

Biomak® technology complements the current operations making them more economically and environmentally efficient

OUR CONTRIBUTION

ANAEROBIC DIGESTION FROM FOOD WASTE

Optimised operation performance

WASTEWATER TREATMENT WITH ANAEROBIC DIGESTION

Increased biomethane production by 2-4 times

CONTROLLED AND UNCONTROLLED LANDFILLS

Organic waste diversion

WASTE TO ENERGY PLANTS

Biomethane production from organics that are no longer incinerated

NOWON PLANT

Waste-to-Value System

A **NOWON PLANT** treats 120K t/year – Approximate population of 250K inhab

Screening

Thermal Hydrolysis

Mechanical Separation

Anaerobic Digestion

Upgrading System

65K t/y
ORGANIC WASTE RECOVERY

146K t CO_2e/y
EMISSIONS AVOIDANCE

9 MM Nm^3
BIOMETHANE FOR GRID INJECTION

We are certified

ISO**9001**

ISO **14001**

ISO **45001**

We invest over **80%** of our resources in **R&D**

Our commitment to the Sustainable Development Goals

We contribute to achieving European and International targets for increasing recycling rates, the importance of renewable energies and the rapid decarbonization of waste treatment sector.