NOWON WASTE-TO-VALUE SYSTEM

Organics Recovery & Clean Energy

ECONWARD TECH

UNITED STATES

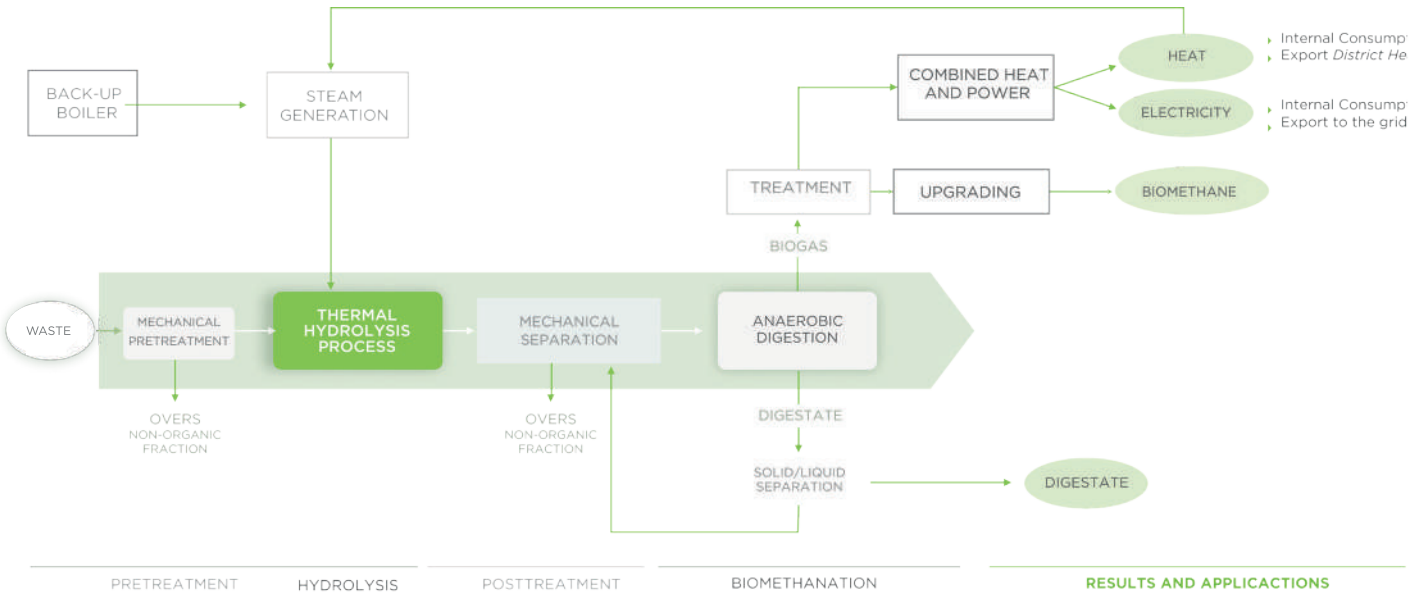
401 Wilshire Blvd. 12th Floor,
Santa Monica, CA 90401, USA
+1 (844) 669 6610
info@econward.com

SPAIN

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

We transform organic wasted into a high-quality biomass with various certified applications

Homogeneous, free of pathogens and chemically degraded.



SSO

Organics 77%
Heavy Residuals 13%
Light Residuals 10%

98 Nm³ CH_4/tonne of organic waste received in pit

147 Nm³ Biogas/tonne of organic waste received in pit

CH_4: 67%

H_2S: 200-1,500 ppm

HRT: 15 days

Organic Loading Rate

5-7 kg COD/m³ per day

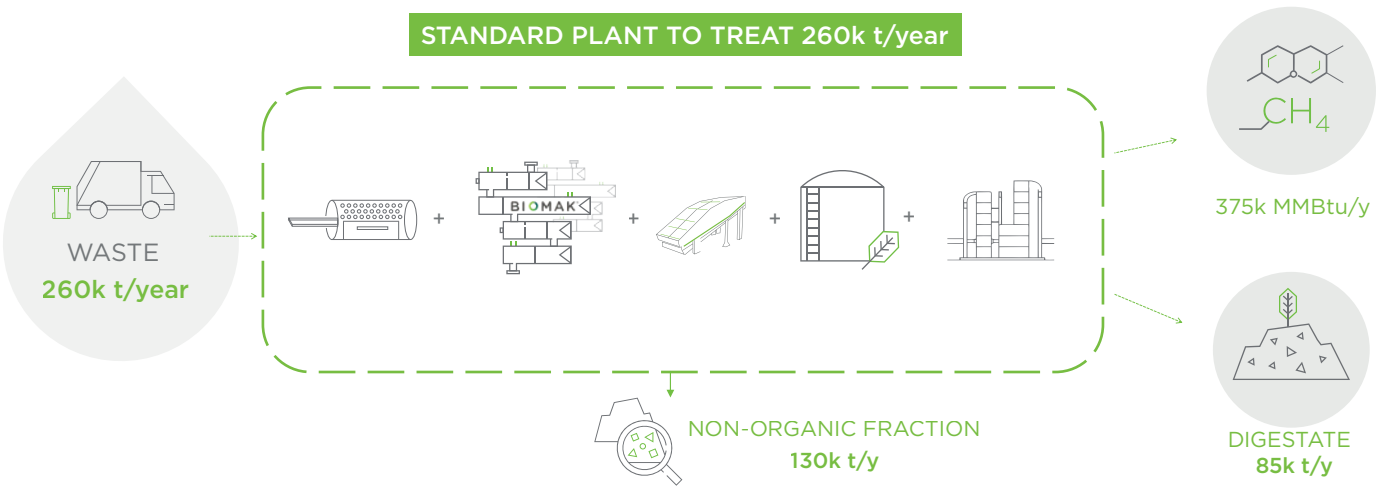
Material Biodegradability

86-91% COD
90-92% VS

Absence of inhibitory or toxic compounds

Certified results from our biomethanation project carried out at our Industrial Plan in Madrid.

STANDARD PLANT TO TREAT 260k t/year



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

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

High treatment capacity

150,000 t/year

Scalable and modular

Adaptable, easy integration

Small footprint

4 acres of area required

Optimised and compatible

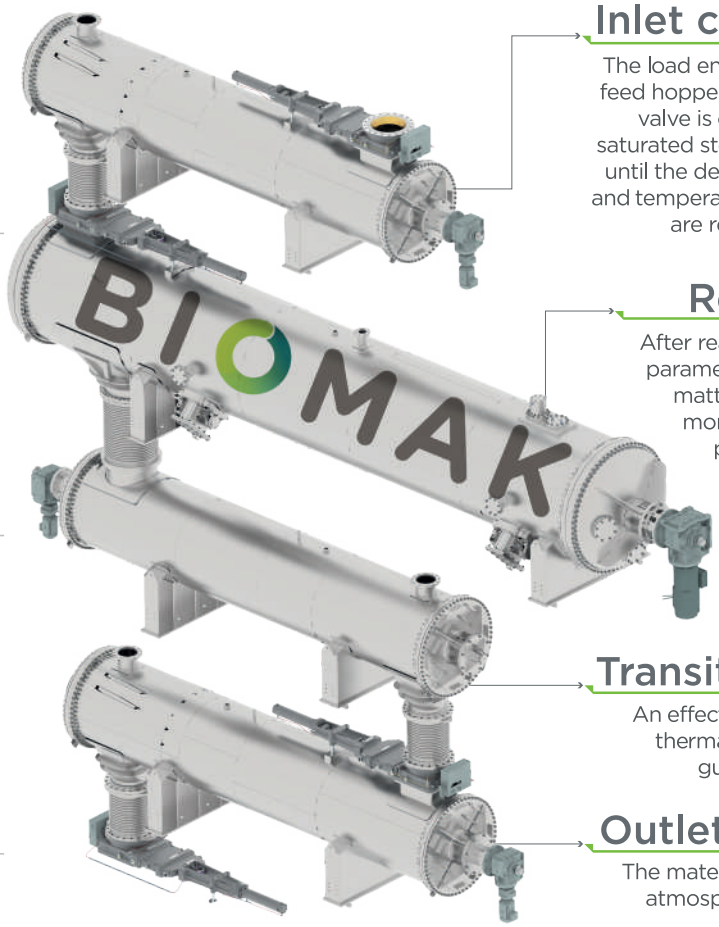
With existing technologies

Automated

In-house software development

Low operating costs

Rapid Return on Investment



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 depressurization for a new inlet chamber pressurization process.

BOOSTING AD PERFORMANCE

+25%

Increase in specific biogas production

+20% CH_4

Better quality biogas with a higher methane content

+30%

Increased treatment capacity

+90%

Greater recovery of organic matter
Efficiency in residuals separation

High process stability

Accurate estimation in biomethane production

Energy efficiency

Internal consumption or export to grid

Excellent quality digestate

Hygenised and free of pathogens

Class B compost

ECONWARD TECH

NOWON
WASTE-TO-VALUE SYSTEM

We are certified

ISO 9001 BUREAU VERITAS Certification

ISO 9001

ISO 14001 BUREAU VERITAS Certification

ISO 14001

ISO 45001 BUREAU VERITAS Certification

ISO 45001

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

Our commitment to the Sustainable Development Goals

3 GOOD HEALTH AND WELL BEING
4 QUALITY EDUCATION
7 AFFORDABLE AND CLEAN ENERGY
9 INDUSTRY, INNOVATION AND INFRASTRUCTURE
11 SUSTAINABLE CITIES AND COMMUNITIES
12 RESPONSIBLE CONSUMPTION AND PRODUCTION
13 CLIMATE ACTION
15 LIFE ON LAND
17 PARTNERSHIPS FOR THE GOALS
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.

Members of:

SPAIN

ategrus · ISWA International Solid Waste Association · ADBA · REA The Association for Renewable Energy & Clean Technology · anese

UNITED STATES

SWANA Solid Waste Association of North America · Bioenergy Association of California · CRRA Ending waste. · Californians Against Waste · Canadian Biogas Association

R&D Activities:

FLEDGED · European Commission Horizon 2020 European Union funding for Research & Innovation · FUAM Fundación Universidad Autónoma de Madrid · CSIC Consejo Superior de Investigaciones Científicas · CLaMber