

**ECONWARD** TECH



# NOWON WASTE-TO-VALUE SYSTEM

Organics Recovery & Clean Energy

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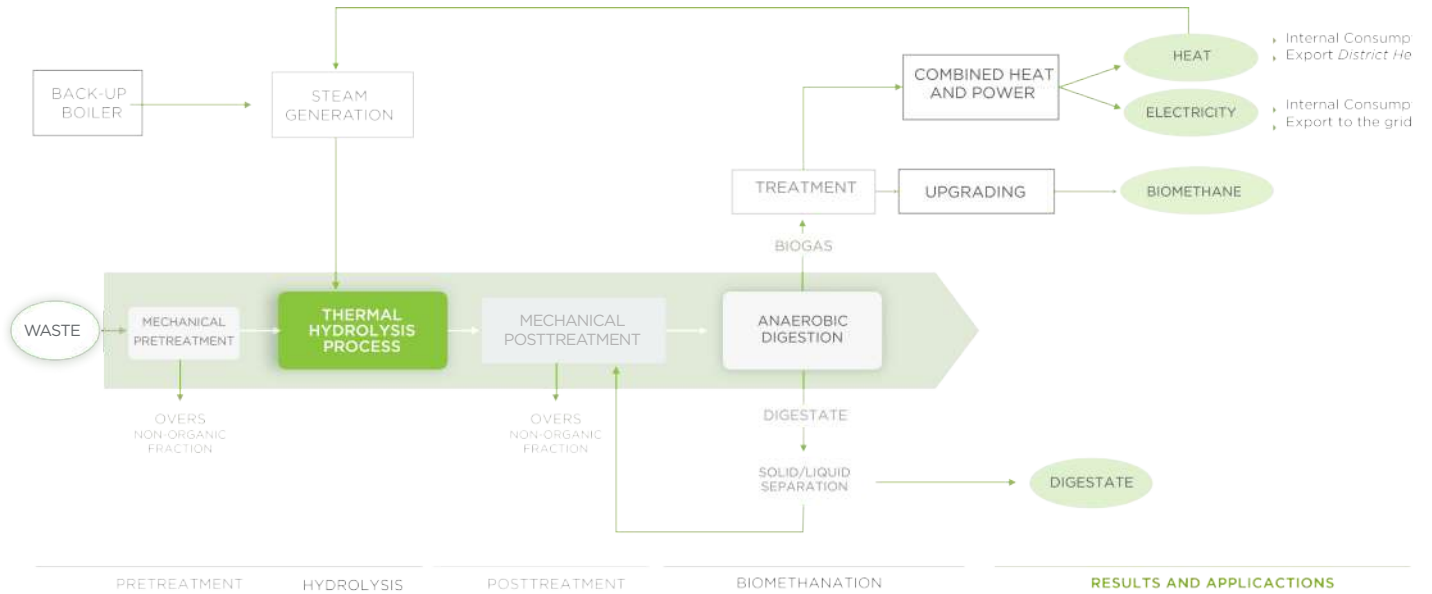
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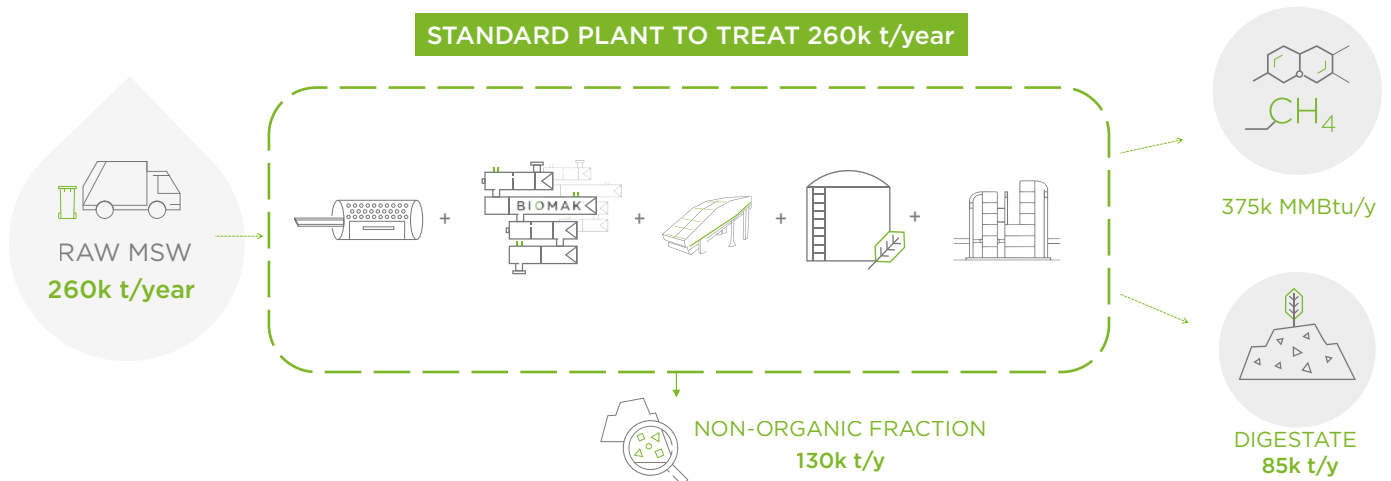
**SPAIN**

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# We transform waste into biogas and compostable digestate



<p><b>SSO</b></p> <p>Organics 77% Heavy Residuals 13% Light Residuals 10%</p>	<p><b>98 Nm<sup>3</sup> CH<sub>4</sub>/tonne</b> of organic waste received in pit</p>	<p><b>147 Nm<sup>3</sup> Biogas/tonne</b> of organic waste received in pit</p>	<p><b>CH<sub>4</sub>: 67%</b></p>	<p><b>H<sub>2</sub>S: 200-1,500 ppm</b></p>
<p><b>HRT: 15 days</b></p>	<p><b>Organic Loading Rate</b> 5-7 kg COD/m<sup>3</sup> per day</p>	<p><b>Material Biodegradability</b> 86-91% COD 90-92% VS</p>	<p><b>Absence of inhibitory or toxic compounds</b></p>	<p><b>Certified results from our biome- thanation project carried out at our Industrial Plan in Madrid.</b></p>



# 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



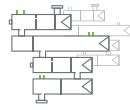
## Small footprint

4 acres of area required



## Automated

In-house software development



## Scalable and modular

Adaptable, easy integration



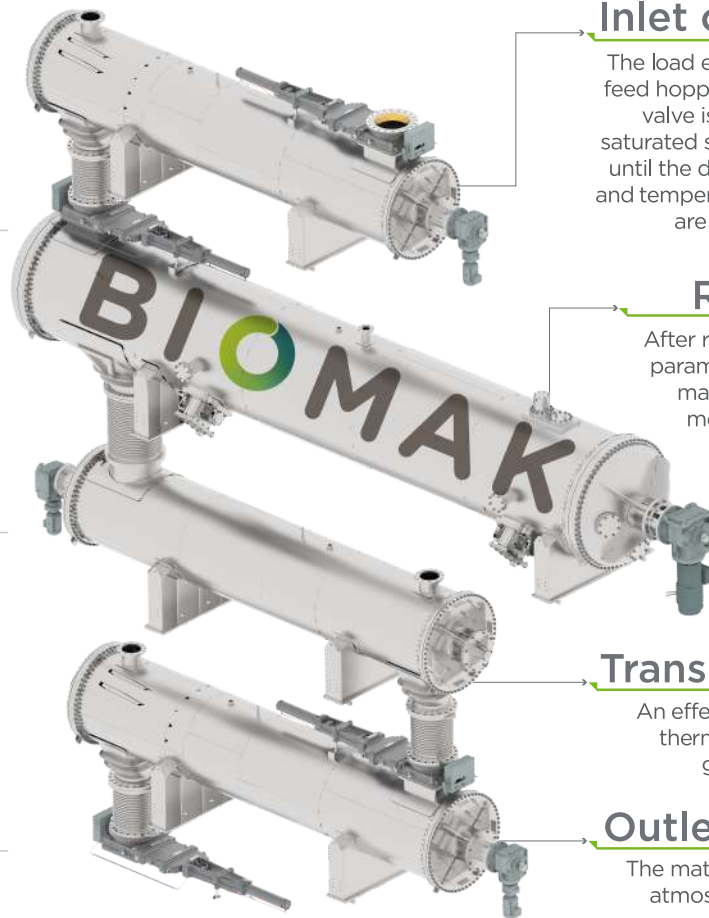
## Optimised and compatible

With existing technologies



## 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.





# NOWON

# ECONWARD TECH

## 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.



## Members of:

ECONWARD



NOWON



## R&D Activities:

