

The image features a vast, hazy mountain range under a soft, golden-yellow sky. In the foreground, a dense, lush green forest covers a hillside. Overlaid on the center of the image is a large, semi-transparent graphic consisting of two overlapping circles. Within the intersection of these circles is a dark purple rectangular box. The word "ECONWARD" is written in large, white, sans-serif capital letters inside this box. To the right of "ECONWARD", the word "TECH" is written in smaller, green, sans-serif capital letters, positioned vertically.

ECONWARD TECH

Who is ECONWARD?

ECONWARD

ECONWARD

We are a global technology company with offices, labs and R&D Department in **Madrid** and **California**.

- Over 15 years of expertise developing equipment and processes.
- Fully backed by a Family Owned Investment Group with a long term commitment to the business and the industry who have invested over €40M in the technology development for the last 4 years.
- We have an industrial plant set up in Madrid which receives and processes various waste streams provided by Municipalities and private companies.

We are certified



ISO 9001



ISO 14001



ISO 45001



Members of

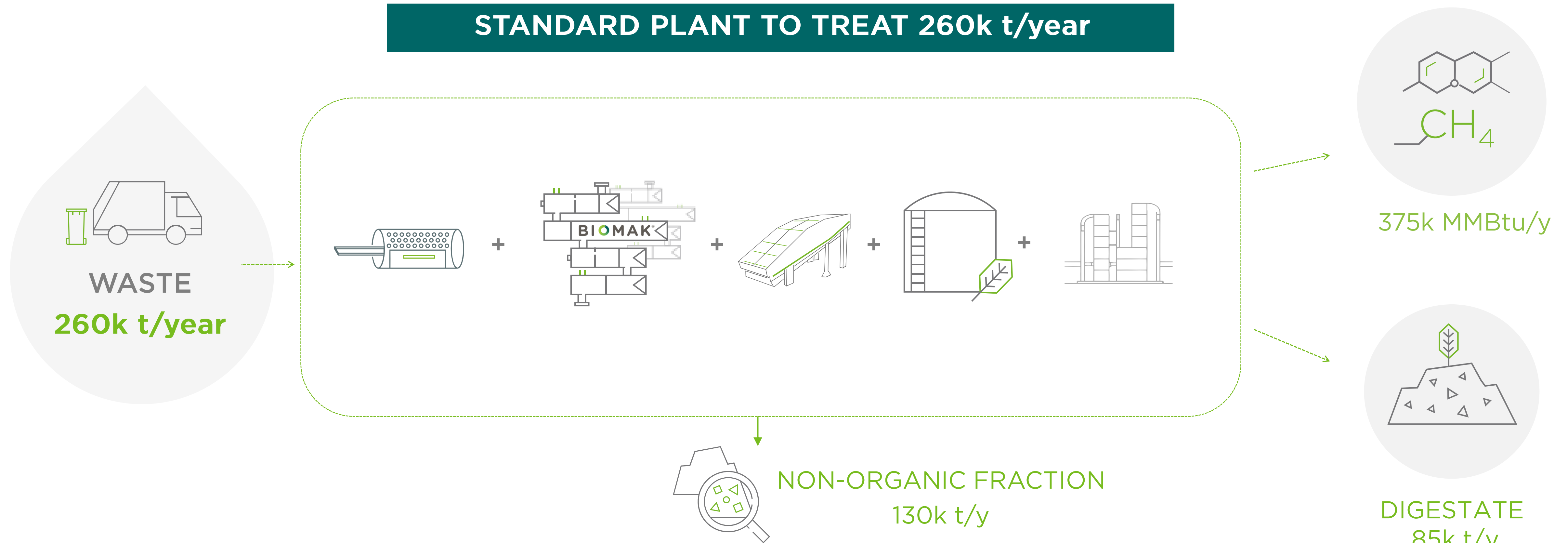


R&D Projects



- Our technology adds innovative value to landfill projects creating a profitable business model building a sustainable bridge between the waste and energy sectors.

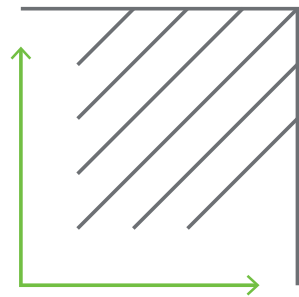
STANDARD PLANT TO TREAT 260k t/year



- ▼ By integrating a Biomak[®] in waste treatment plants, we contribute to achieving the objectives of reducing landfill disposal and emissions, increasing recycling rates and renewable energy production. In addition, we optimize the operation performance, providing a profitable business model.



+ 90%
of Organic Matter Recovery



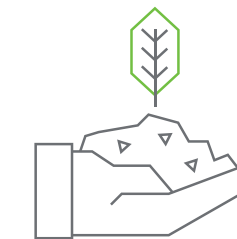
+ 30%
increased landfill capacity



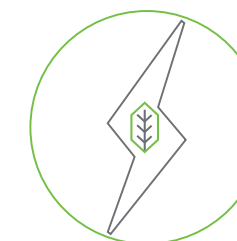
Increased biomethane revenue



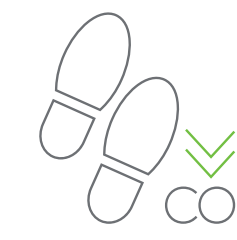
Greater efficiency in organics separation Excellent quality substrate that favours the stability of complementary processes.



Excellent quality digestate
Free of pathogens. Class B compost.



Energy efficiency
Enough energy produced for internal consumption or grid injection.

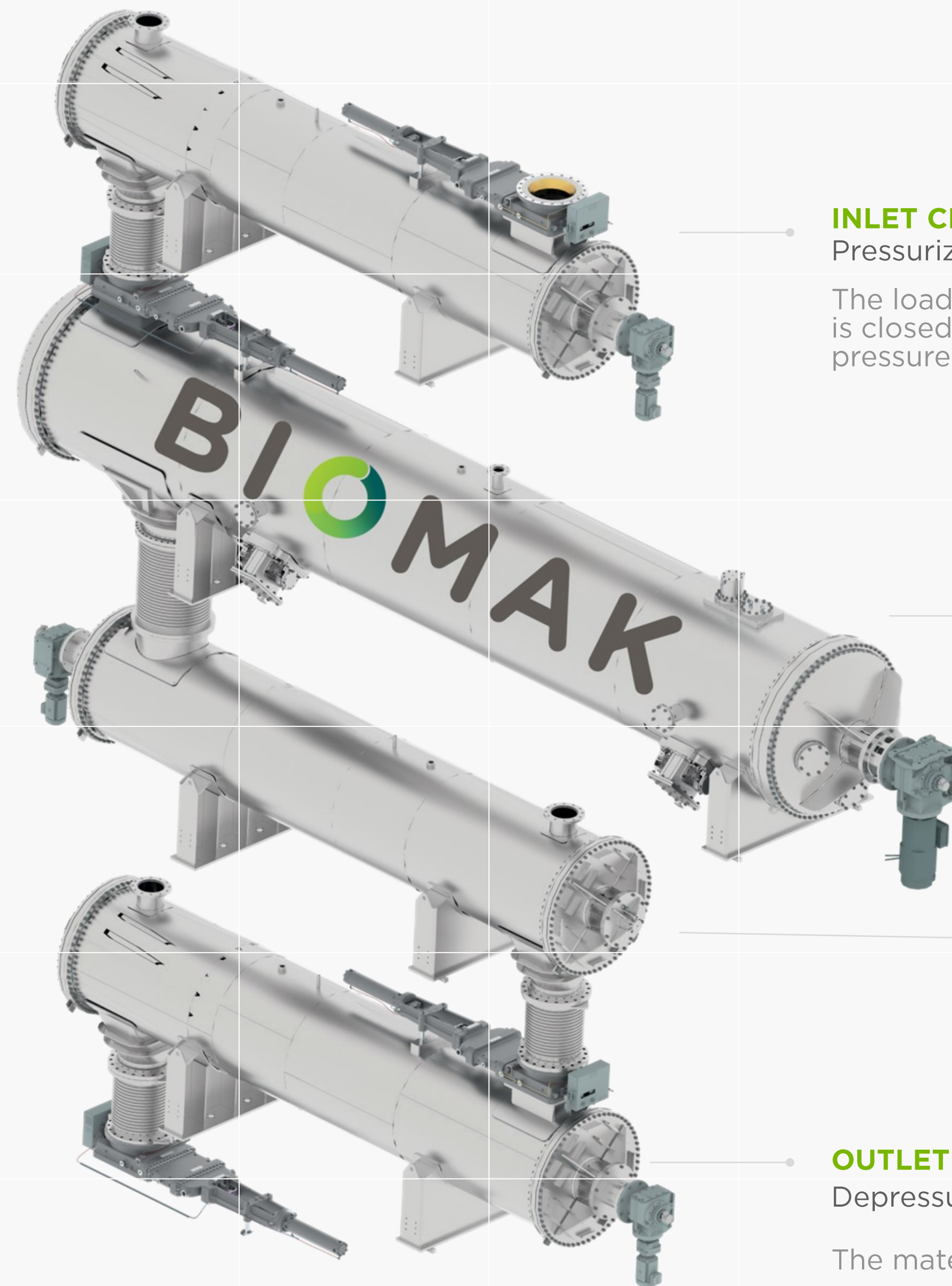


GHG emissions savings
Each Biomak[®] produces savings of 40,000 t/CO₂eq per year compared to a landfill with gas extraction.

THERMAL HYDROLYSIS

Our patented technology

Autoclave system for solid waste treatment using a **thermal hydrolysis process** in continuous operation

**INLET CHAMBER**

Pressurization.

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

Pressure-temperature stability.

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

TRANSIT CHAMBER

The material keeps flowing.

An effective and efficient thermal hydrolysis is guaranteed.

OUTLET CHAMBER

Depressurization.

The material is unloaded at atmospheric pressure.

The system is synchronized to reuse the steam from the depressurization for a new inlet chamber pressurization process.

Our patented technology transforms organic waste into a high-quality BIOMASS



▼ We help avoid landfill disposal of organics

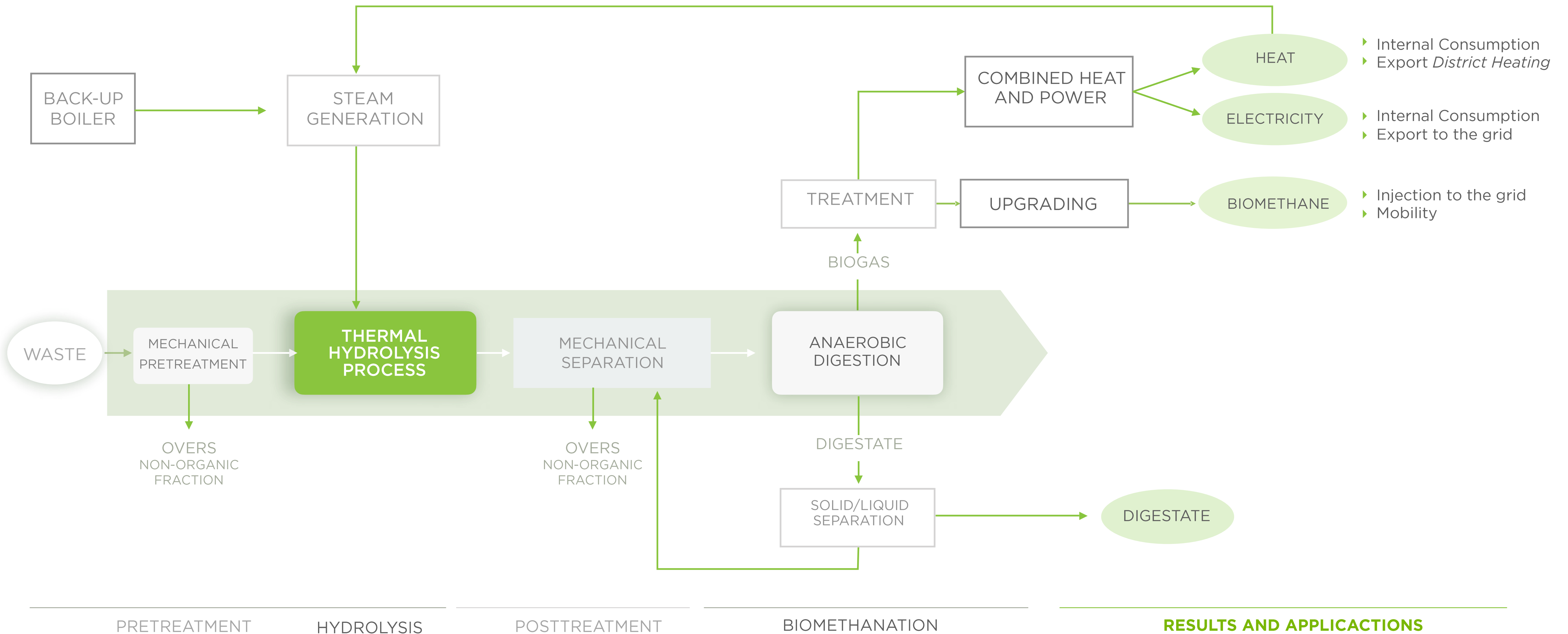
▼ We innovate to decarbonize the waste sector

▼ We produce a high-quality biomass

We provide a homogeneous, degraded and pathogen-free biomass
IDEAL FOR ANAEROBIC DIGESTION PROCESSES

APPLICATION

NOWON's plant design

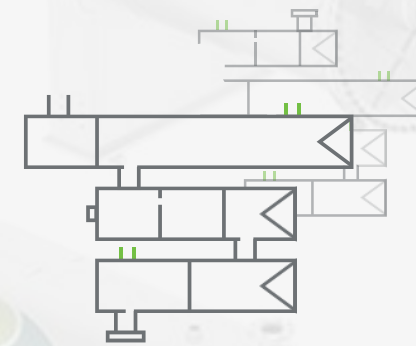


Key features



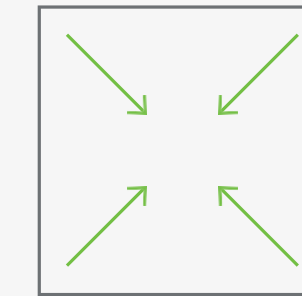
High treatment capacity

260,000 t/year



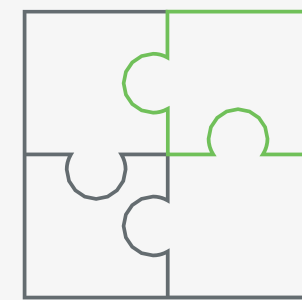
Scalable and modular

Adaptable, easy integration



Small footprint

4 acres of area required



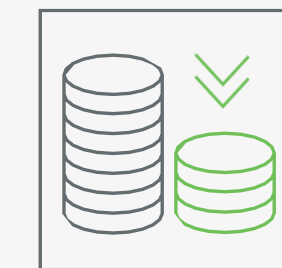
Optimized and compatible

With existing technologies



Fully automated

In-house software development


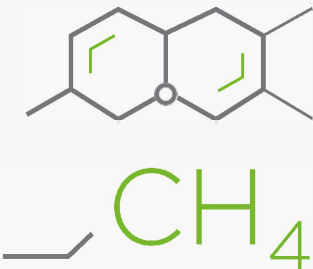
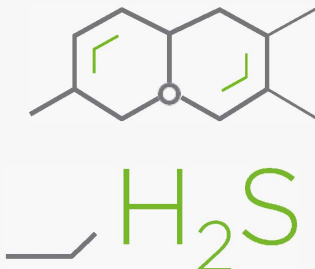


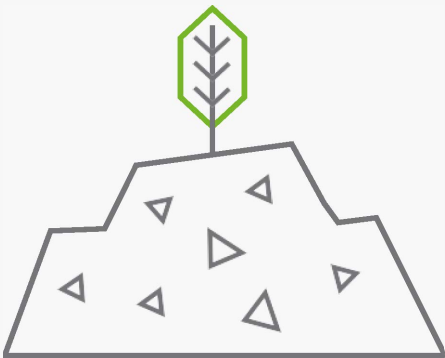
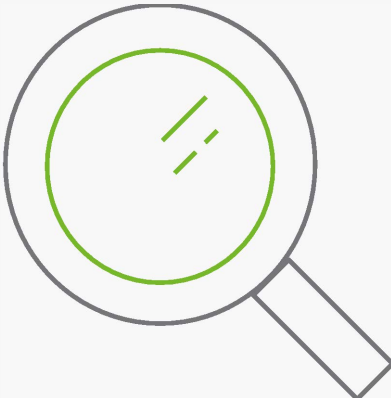


Low operating costs

Rapid Return on Investment

- ▼ Process stability produces an increase in quality and quantity of the biogas obtained.
This is translated into a reduction in operating costs and greater mechanical simplicity of the plant.

BIOGAS PROPERTIES

We produce 98 Nm3 methane per tonne of organic waste received in pit						
						
147 Nm3 Biogas	67%	200-1500 ppm	15 days	5-7 kg COD/m³ per day	86-91% COD 87-91% TS	Absence of inhibitory or toxic compounds
PER TONNE OF ORGANIC WASTE RECEIVED IN PIT	METHANE	HYDROGEN SULPHIDE	HYDRAULIC RETENTION TIME	ORGANIC LOADING RATE	BIODEGRADABILITY	MATERIAL CLEANING

Let's lead the change!

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**WINNER OF NATIONAL
ENERGY AWARD
SPAIN, 2022**