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Why ECONWARD

- R&D
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- We are ready



Find it out

O1 WHO WE ARE





Innovation at the service of Circular Economy

We provide an alternative solution that reduces organic waste disposal to landfills and generates economic and social values.

Efficient use of resources

WHO WE ARE

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

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





Our technology transforms waste into a versatile biomass that provides environmental, economic and social value.

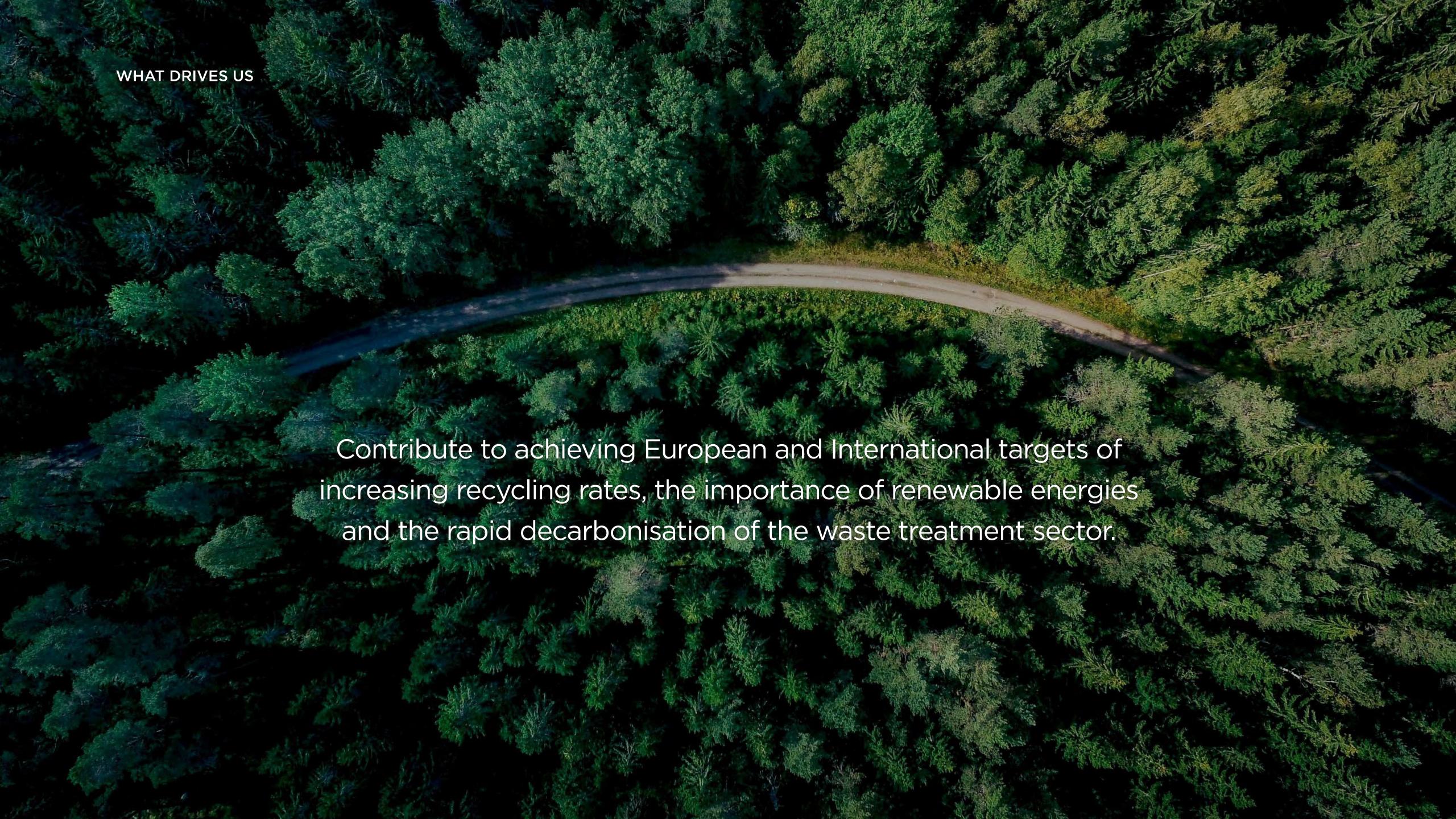


We have offices, labs and R&D Department in Madrid and California.

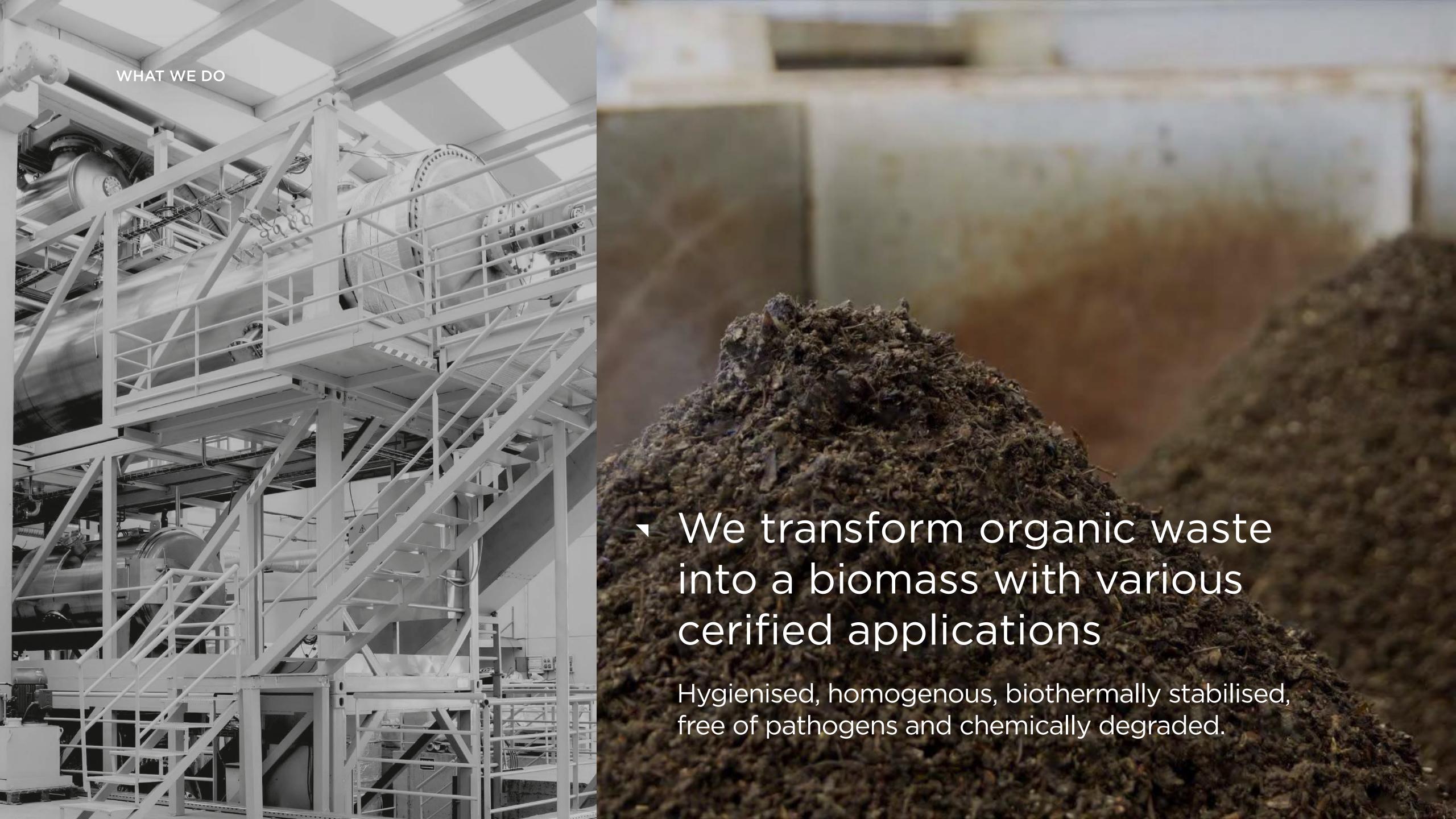


 We provide a solution to the global waste challenge









Why our technology works

02 HOW WE DO IT

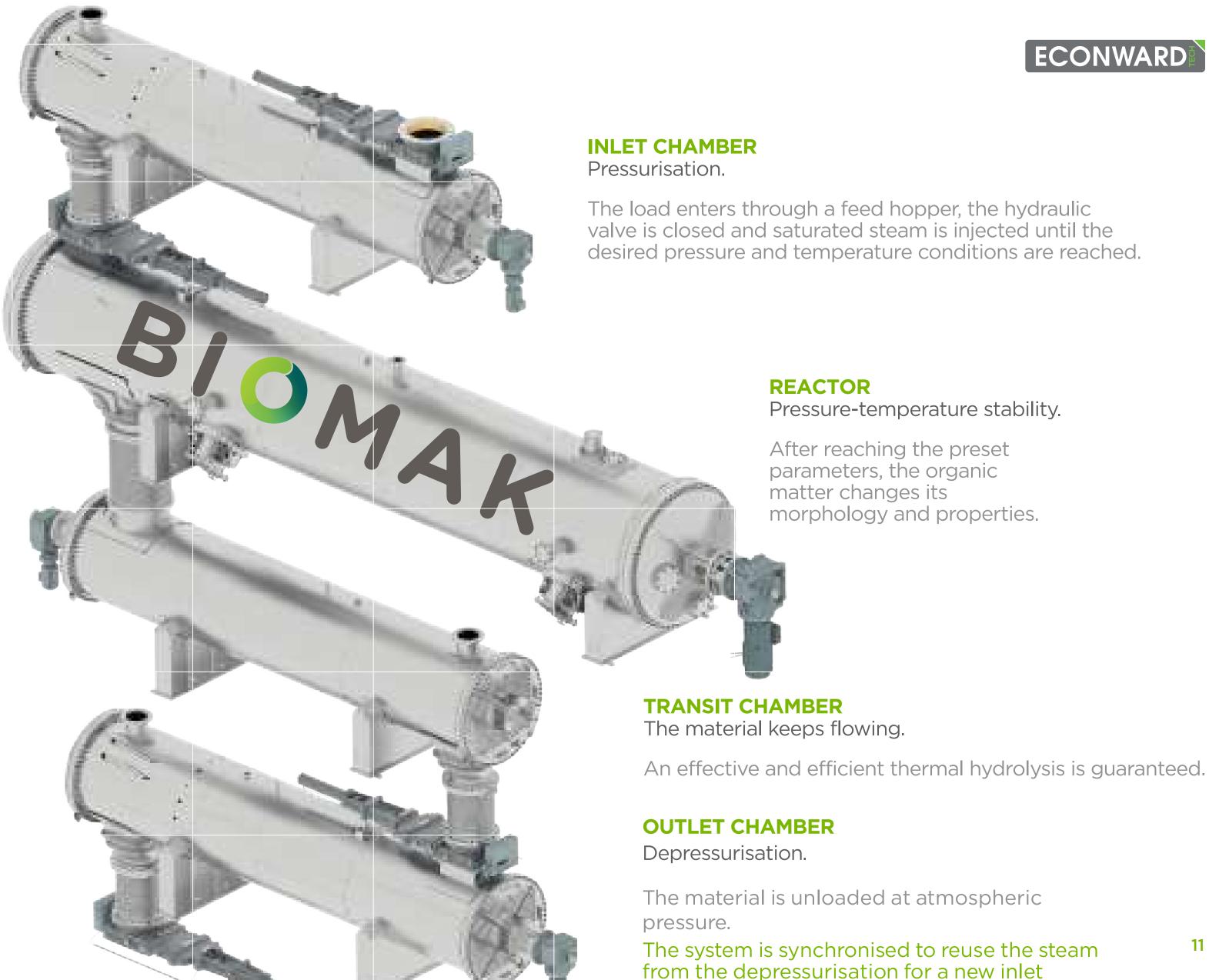


ECONWARD

Our Solution

Fully-automated autoclave system

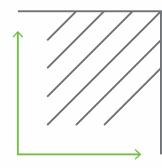
for organic waste treatment using a thermal hydrolysis process in semicontinuous operation



chamber pressurisation process.

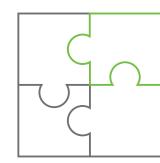


Key features



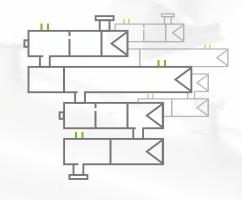
High treatment capacity

65,000 t/year per module



Optimised and compatible

With existing technologies



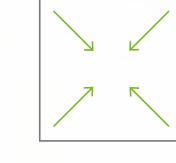
Scalable and modular

Adaptable, easy integration



Automated

In-house software development



Small footprint

270 m² of area required per module



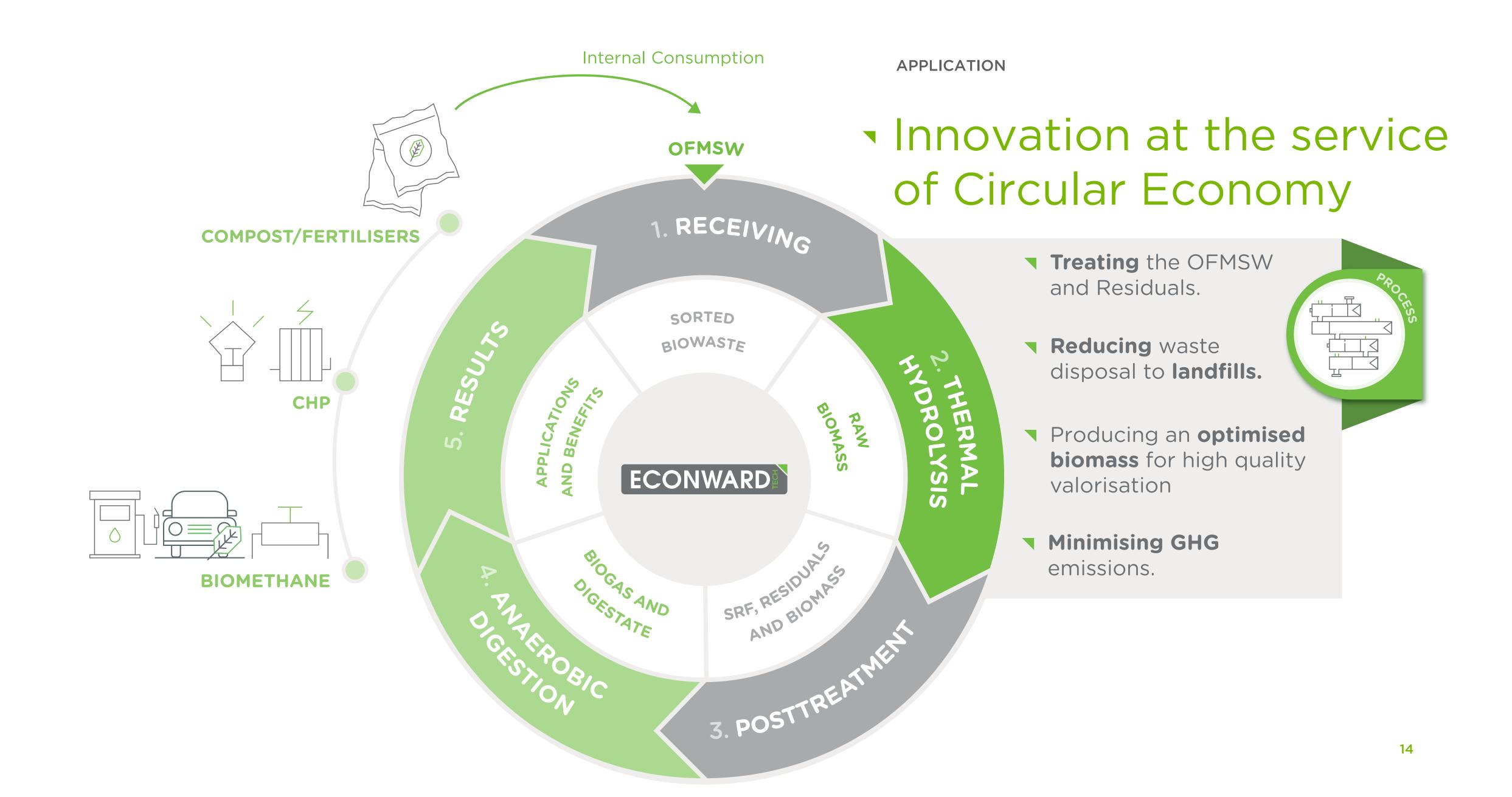
Low operating costs

Rapid Return on Investment

The most efficient biowaste and biomass valorisation

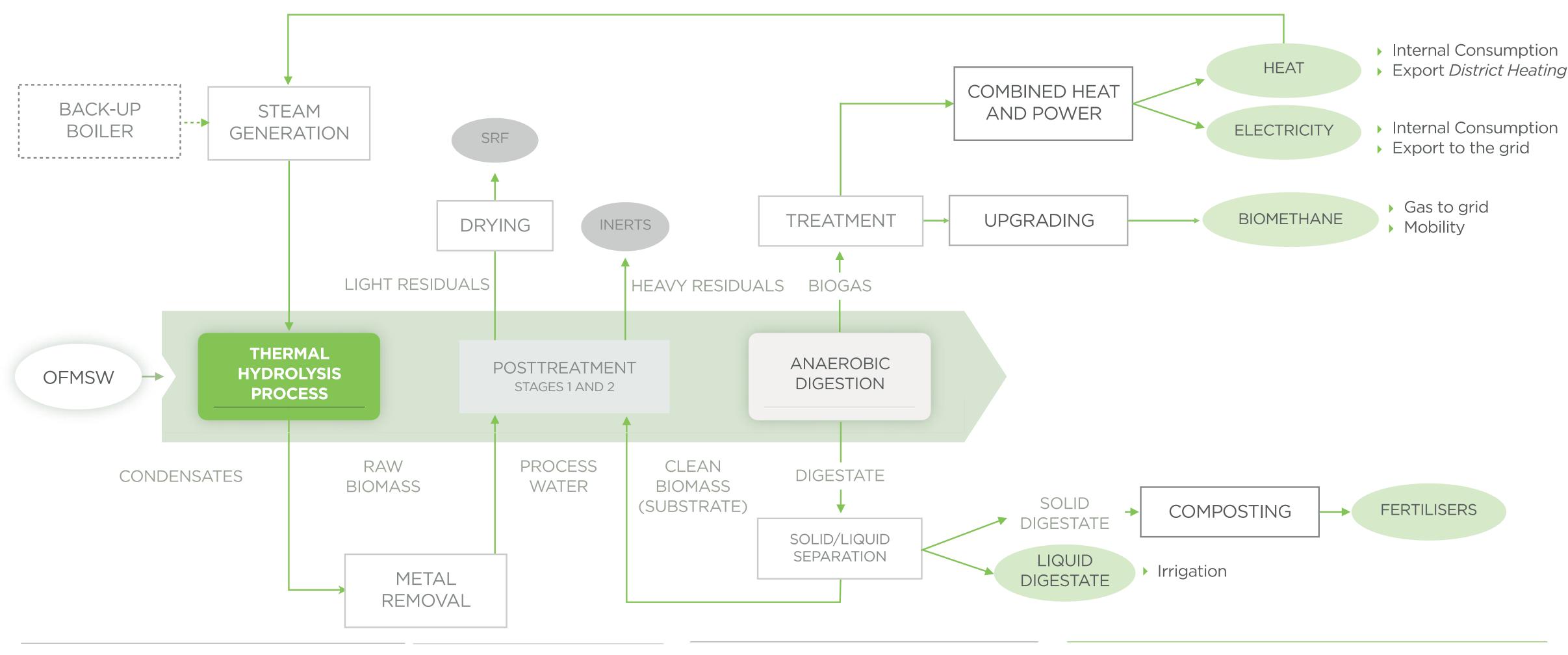
O S APPLICATION





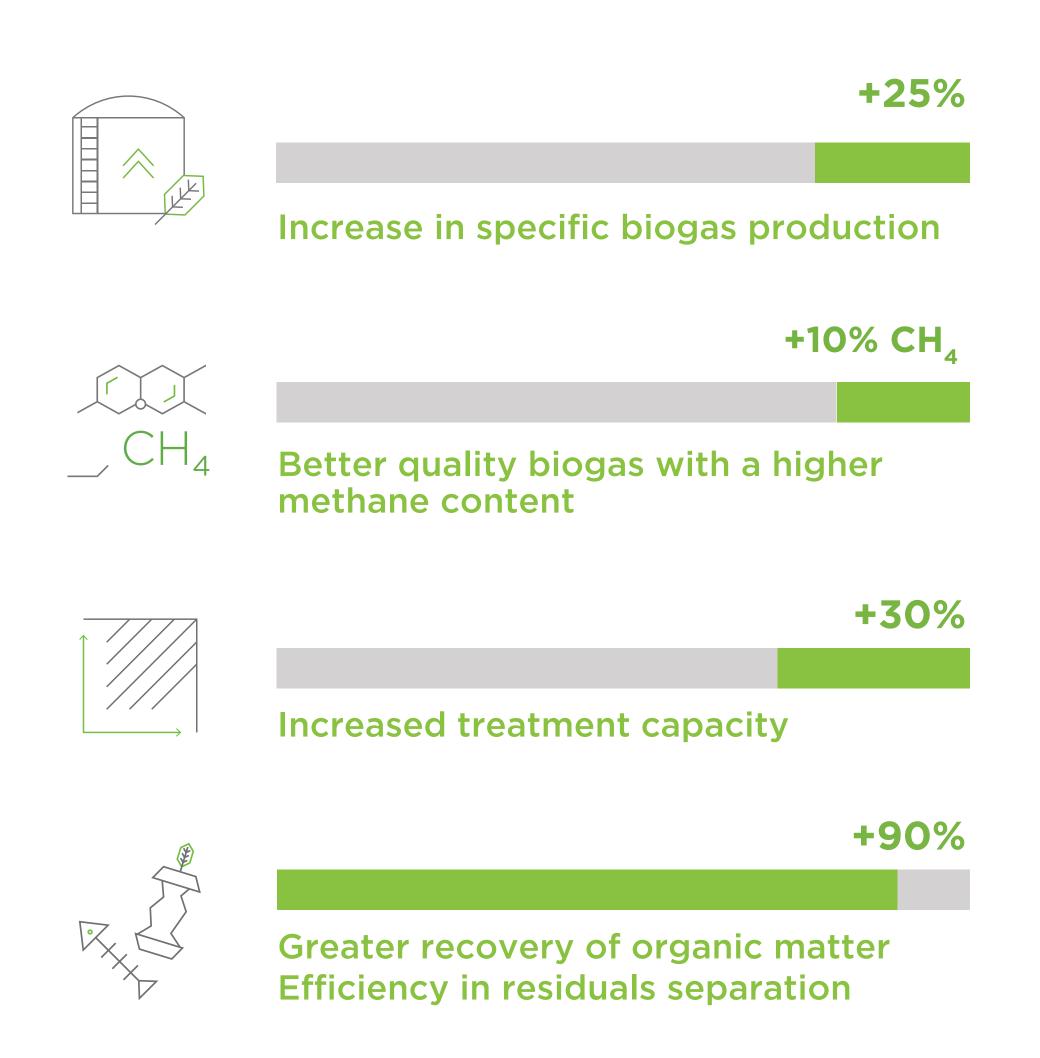


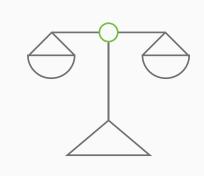
▼ ECONWARD's plant design





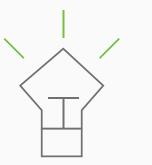
An integration model which optimises AD plants' operation





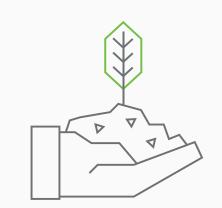
High process stability

Accurate estimation in biomethane production



Energy efficiency

Internal consumption or export to grid



Excellent quality digestate

Hygenised and free of pathogens

Class B compost

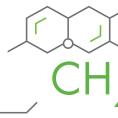


A greater process stability generates an increase in biogas quality and quantity. These benefits are translated into greater mechanical simplicity and lower operating costs of the facility

We produce 98 Nm³ of methane per tonne of organic waste received in pit



147 Nm³ Biogas/tonne of organic waste received in pit



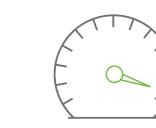
CH: 67%



H_,S: 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

Some good reasons

04 WHY ECONWARD





R&D Activities

We research and invest in developing different applications for our biomass due to its significant potential uses.

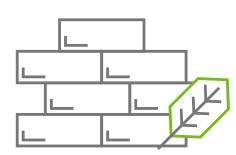
The known versatility of ECONWARD's biomass ensures

better use and valorisation.



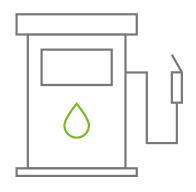
Green Chemistry

Extraction process to obtain high added-value compounds.



Bioconstruction

Biomaterials for infrastructure and building.



Biofuels

Renewable energy and mobility solutions.





Sustainable Development Goals

We clearly contribute to protecting the environment to make the world a better place for all.





















We are certified



ISO 9001



ISO **14001**



ISO **45001**

ECONWARD

Strategic alliances

Members of:





















R&D Activities:











We foster the Circular **Economy Principles**

Signatories of 'Pact for a circular economy: The commitment of the economic and social agents 2018-2020' to promote the transition to the Circular Economy in Spain.



Let's lead the change!

Contact us for a custom case study

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