



Transforming waste into circular methanol

June 2022

Ecoplanta –located in El Morell, Tarragona– will be the first plant in Spain to produce circular methanol from treated urban waste, mainly from the surrounding eco-parks.



With its emphasis on maximizing carbon recycling from residual waste materials, Ecoplanta will contribute to the Waste Framework Directive target for which municipal waste recycling and reuse must reach 65% in Europe by 2035, as well as contributing to Catalan and Spanish waste programs and circular economy strategies.

Ecoplanta shareholders

A successful partnership



Agbar

Leader in
environmental services



REPSOL

Global multi-energy
company

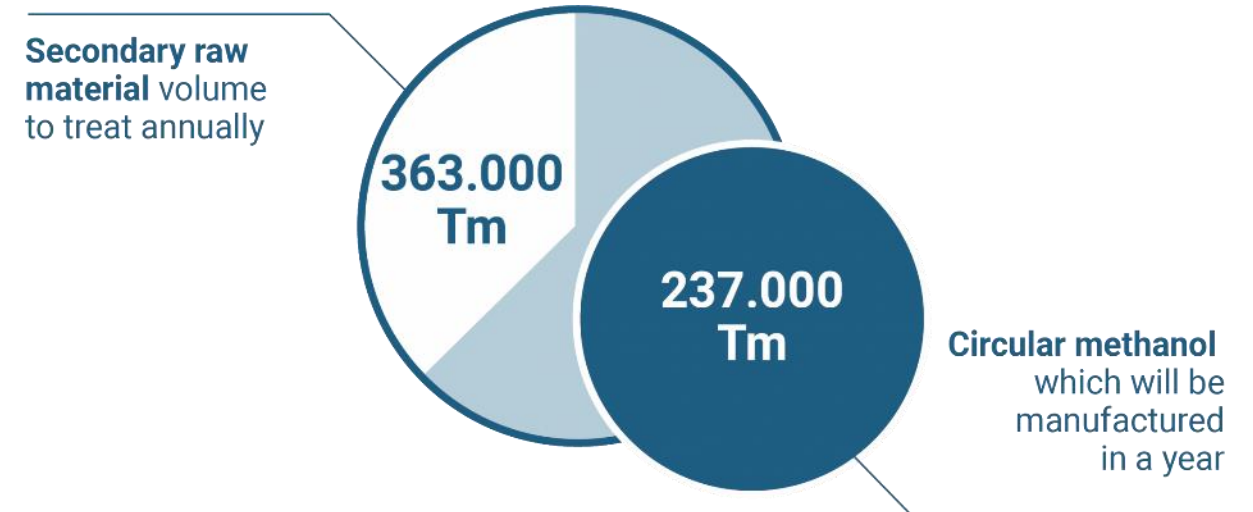


Pioneer in
molecular recycling

Innovative process

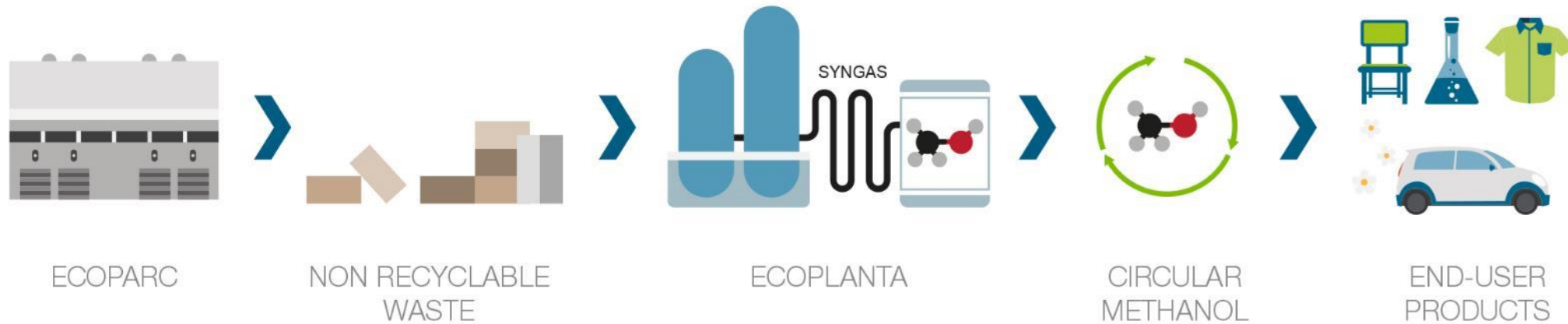
A tangible contribution to a circular economy

In its essence, the project will accelerate the transition from a linear resource-based economy to a circular economy, which is one of the most pressing economic, political, and social challenges of our time.



Innovative process

Waste to circular methanol



Subjecting non-recyclable municipal solid waste to specific pressure and temperature conditions, we break its molecules into its essential compounds. This process transforms it into a synthetic gas (syngas) that, once cleaned, can be separated and reorganized into its basic molecules to transform them into circular methanol. As a result, there is no combustion, and it takes place in a closed circuit, so emissions are minimized.

Innovative process

Main figures



Innovative process Calendar



Urban planning
report

Presentation of IEA
(Integrated
Environmental
Authorization)

Administrative
authorization

Works and
construction

Commissioning

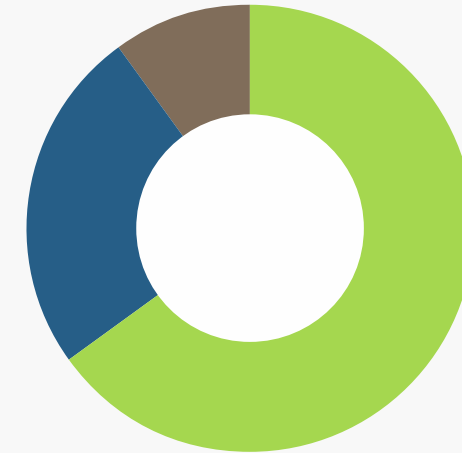
Non-recyclable waste solution

We contribute to meeting waste management challenges



Ecoplanta will contribute to improving material valorization

The new Waste Framework Directive, adopted in 2018, sets aggressive objectives for municipal treatment by 2035.



< 10% landfill

< 25% energy valorization

> 65% for recycling and material valorization

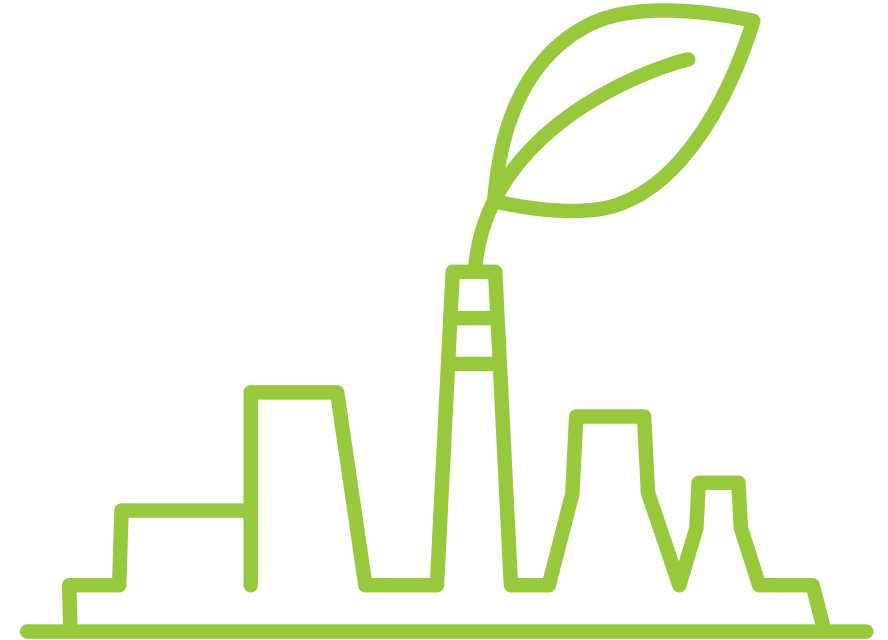
Non-recyclable waste solution

Decarbonization solution

GHG emissions reduction

Achieving 3.4 Mt CO₂eq of greenhouse gas (GHG) emissions reductions over the first ten years of operation.

Recycling over 70% of the carbon present in the residual waste.



EU taxonomy eligibility

Advanced bio methanol production and material recovery of non-hazardous waste are Ecoplanta's eligible activities for climate change mitigation.



Industrial transformation – sustainable value proposal

Ecoplanta integrates the highest environmental standards in process and design, taking a first step towards a sustainable industry in the Tarragona area.

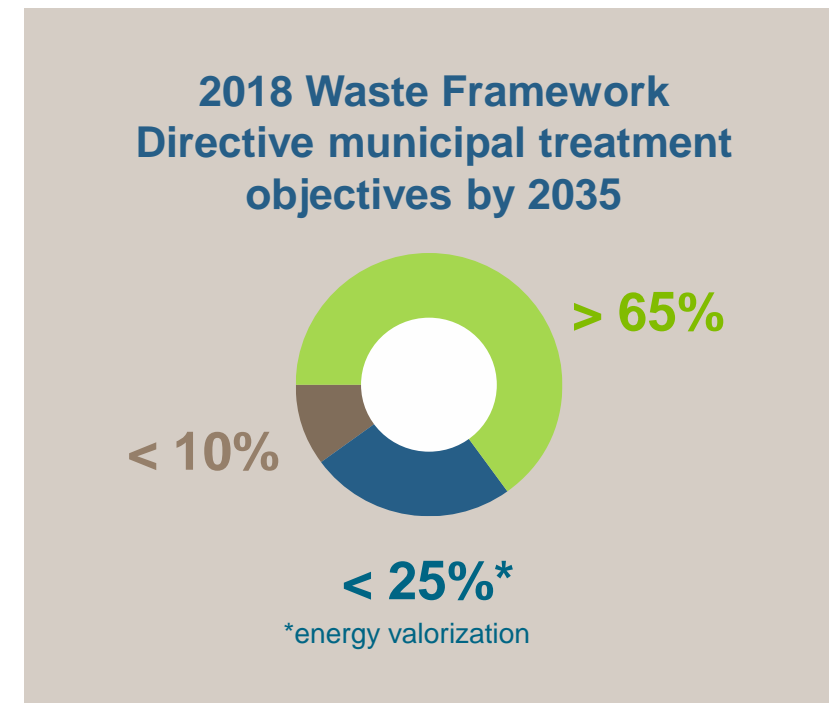
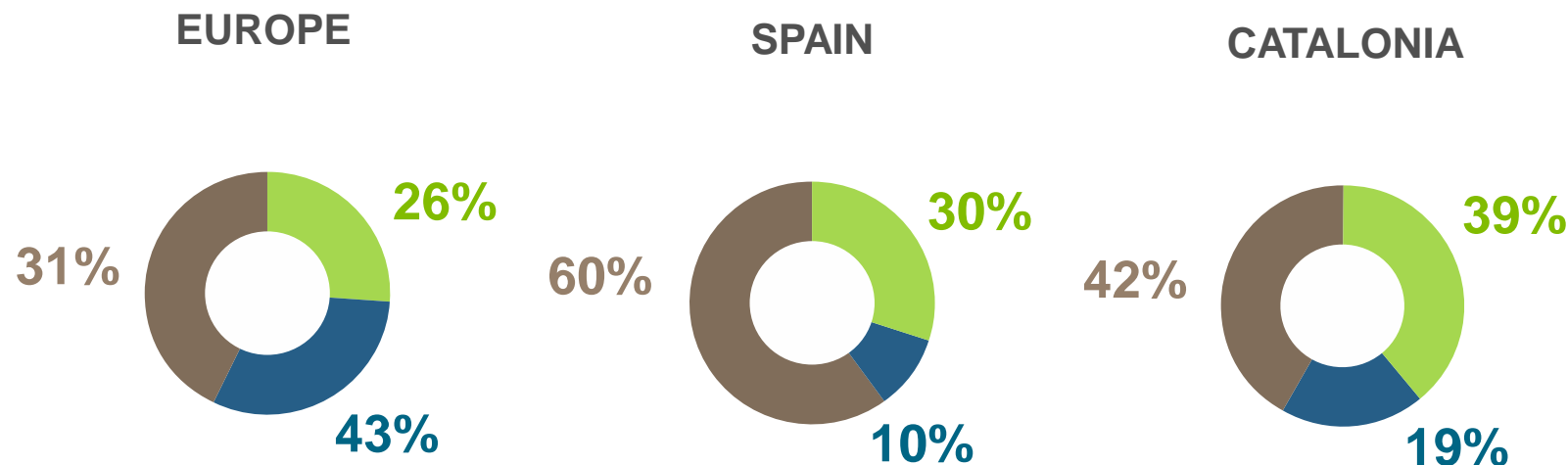
Circular impact in methanol consumers' industries

Circular methanol, a building block for numerous industries, can become a lever to promote circularity within other sectors.



EU green deal alignment & main objectives

Material valorization complements mechanical recycling and is an alternative to landfill



EU green deal alignment & main objectives

EU Innovation Fund



- One of the seven awarded from the over 310 large-scale projects submitted.
- The only large-scale project awarded in Spain.
- It offers a waste treatment solution unique in the EU.
- The gasification technology was recognized for its innovation, reduction of carbon emissions, and scalability.



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