

Project Duration:

51 Months

from October 2020
to December 2024

€11,6 M

Funding from the European Union's
Horizon 2020 research and innovation
programme and the Bio-based Industries
Consortium (BIC)

€55 M

Total budget

11 partners

from 6 European countries:

4 SMEs (Circa, Will & Co, Talga Advanced
Materials and Vitis Regulatory Ltd)

4 large companies (Merck, Coal Products
Limited, PNO Consultants and Huntsman
Advanced Materials)

2 academics (University of York
and AgroParisTech Innovation)

1 innovation cluster (Bioeconomy For
Change)

ReSolute

#ReSolute #Flagship
#Biorefinery #LGO
#Levoglucofenone #Biosolvent
#Cyrene #Furacell #biodegradable
#recyclable #sustainable
#zerowaste



www.resolute-project.eu



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ReSolute Project

ReSolute

The BBI JU flagship project
to build a first-of-its-
kind industrial plant and
sustainable value chain for
the production of a novel,
safer and high performing
biosolvent Cyrene™



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CONTEXT & CONCEPT

INDUSTRIAL PRODUCTION OF NEW BIO-BASED PRODUCTS

The chemical sector today faces several challenges that are driving demand for higher performance and safer biomass-derived chemicals. The transition from fossil fuels demands the use of renewable sources to meet future energy and chemical needs. Net zero drivers combined with increasing regulatory pressure mean that companies using fossil-based hazardous chemicals require sustainable alternatives.

ReSolute offers the global opportunity to build, at industrial scale, factories to convert cellulosic biomass into safer and environmentally friendly chemicals with applications across diverse industrial sectors as a key part of the circular economy.

OBJECTIVES

- To build and operate in France the first-of-its-kind integrated biorefinery producing Cyrene™, a high-performance solvent
- To bring to market new products with better environmental performance that are safer for human health
- To reduce dependence on non-renewable resources
- To apply a circular approach to Cyrene™ by-products

Contribution to sustainable development goals



EXPECTED IMPACTS



ECONOMICAL

- Create new bio-based value chains
- Create a new source of growth for the pulp and paper sector and the chemicals sector
- Create new bio-based applications that meet market requirements



ENVIRONMENTAL

- Reduce dependence of solvent-using industries on non-renewable resources
- Optimise resources efficiency
- Increase the protection of the environment



SOCIAL

- Increase the protection of human health
- Create 40+ direct jobs and 120+ indirect jobs
- Equal employment opportunity for the local community

A multi-stakeholders project contributing to the European Green Deal and the EU Chemicals Strategy for Sustainability

APPLICATION FIELDS



Electronics and batteries



Pharmaceuticals



Polymers and biopolymers



Flavours and fragrance



Graphene



Agrochemicals



Textiles recycling



Coatings and adhesives



Membrane manufacturing