

# BIOREFINERY OF BAZANCOURT

## EUROPEAN INSTITUTE OF BIOREFINERY



© Dutartre - Procethol 2g

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## PLATFORM SPECIFICATIONS

■ 8 companies on site

A.R.D.	France	Chamtor	France
Air Liquide	France	Soliance-Givaudan	France - Switzerland
Cristal Union	France	Vivescia	France
Cristanol	France	Procethol 2G - Futurool project	France

- More than 1,200 employees, around 1,000 jobs created indirectly, 200 on-site scientists, 1,000 permanent staff - €800+million in annual turnover
- Total area 693 hectares **of which 396 are available**  
 3 areas = Industrial +R&D: 260 ha (of which 67 ha are free) + Bioeconomy Park: 193 ha (of which 147 ha are free) + Experimental Farm: 240 ha (of which 155 ha are free)
- **Security:** Seveso-certified site (high level of security)
- **Originality of the site:** Single site for industrial companies, scientists, engineering schools, all with unique resources (laboratories, pilot, demonstration, industrial facilities), and a strong vision of the green chemistry. A circular economy by nature, combining developments in the field and consumer trends, offering opportunities for synergies between stakeholders at the site. Flows and interconnections made possible through locations upstream or downstream of existing facilities.

## OPERATIONS/PRODUCTS

- **One of the largest biorefinery in the world**
- 4 million tons of biomass (2.6 million tonnes of sugarbeet + 1million tonnes of wheat + 400,000 tonnes of other biomasses (alfalfa, etc.) are processed every year to **create sugar, glucose, starch, food or pharmaceutical alcohol, ethanol fuel, cosmetics actives, etc.**
- **Main market:** Human food, animal nutrition, energy (biofuel), cosmetics, chemical & technical applications

## INFRASTRUCTURE

- ✈ 30 mins from Paris-Charles de Gaulle Airport
- 🚗 Direct connections to motorways (A34/A4+RN51/A26)
- 🚄 15 mins from high speed train station: Paris (45 mins), Brussels (3hrs), London (3hrs 40mins)  
5 mins from the regional train station
- 🚂 Connected to the rail network with an industrial hub

## SHARED SERVICES/UTILITIES

Industrial water, demineralized water	Steam	
	Electricity	Extra high-voltage station nearby
	Industrial fluids	
Wastewater treatment plant	Industrial gas	Natural gas, CO <sub>2</sub>
	Treatment of effluents	
To the treatment plant	Possible connection to existing network	Plug&Play connection, optical fiber, high-speed internet, telephone network
	Safety/security	
Administrative and technical support in obtaining authorizations	Full service possible	Medical care service Employees are trained in first aid
	Technical support functions	
	Infrastructure management	Rental of buildings, meeting rooms

## OTHERS SERVICES/UTILITIES

- Bioeconomy park
  - Exclusively for industrial facilities and high-tech/middle tech companies
  - Tax exemptions and financial support
- Experimental farm
  - Center of Excellence for upstream resource management
  - Focused on research and innovation to support farmers in alternative production systems
  - A key point for innovation in biomass for biorefineries and green chemistry
  - Part of network of other experimental platforms in France

## NETWORK PLATFORM

Local Innovation clusters	A.R.D. (Agro-industry R&D)	R&D company dedicated for biorefining White Biotechnology, green chemistry and environment.
	B.R.I. (Biorefinery Research & Innovation)	Opened Innovation Platform in Bioeconomy, including ARD, BIODEMO & CEBB
	BIODEMO	Demonstration plant for designing and scaling up bioprocesses
	FUTUROL PROJECT	The only project on cellulosic ethanol with a taskforce of more 100 scientists, a pilot, and a demonstration plant
	GLOBAL BIOENERGY	A project in partnership with ARD to develop a process to transform renewable resources (sugar, crops, agricultural and forestry waste) into isobutene
University	CEBB	Engineering schools (CENTRALE SUPELEC, AGROPARISTECH, NEOMA, URCA) in bioeconomy, green chemistry, biorefinery
Potential partners	AIR LIQUIDE	Industrial production of 'green' carbon dioxide
	CRISTAL UNION	Production plant of sugar from sugar-beet (production: 250 kt/yr of sugar and 130kt/yr of dehydrated beet pulp and alfalfa)
	CRISTANOL	The largest ethanol plant in Europe, with two production lines (sugar-beet and wheat) and a total output of 3.5 Mhl/yr
	CHAMTOR	An important company in the transformation of cereals into starch-based products (processing of 450 kt/yr of wheat)
	SOLIANCE	Specializing in developing high added-value ingredients, derived from vegetable sources, micro-organisms and micro-algae, for active ingredients in the cosmetics industry
	VIVESCIA	This agricultural and agri-food group ensures the supply and the storage of transformed wheat on the IEB platform