

# BIOREFINERY OF BAZANCOURT

## EUROPEAN INSTITUTE OF BIOREFINERY



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**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)**

### SHARED SERVICES/UTILITIES

STEAM	
ELECTRICITY	Extra high-voltage station nearby
INDUSTRIAL FLUIDS	Industrial water / demineralized water
INDUSTRIAL GASES	Natural gas / CO <sub>2</sub>
TREATMENT OF EFFLUENTS	Wastewater treatment plant
POSSIBLE CONNECTION TO	The treatment plant
SAFETY/SECURITY	Medical care service / employees are trained in first aid
TELECOM & DATA	Plug&Play connection / optical fiber / high-speed internet / telephone network
TECHNICAL SUPPORT FUNCTIONS	Administrative and technical support in obtaining authorizations
INFRASTRUCTURE MANAGEMENT	Rental of buildings, meeting rooms

### OPERATIONS / PRODUCTS

- One of the largest biorefinery in the world
- + 4 million tons of biomass (3 million tons of sugarbeet + 1 million tons of wheat + 400,000 tons 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



## CHEMICAL PARK SPECIFICATIONS

- **8 companies on site:**
  - ADM (France)
  - Air Liquide (France)
  - A.R.D. (France)
  - Cristal Union (France)
  - Cristanol (France)
  - Givaudan (France - Switzerland)
  - Procethol 2G - Futurol project (France)
  - Vivescia (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
- **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.



## SPECIFIC 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

## 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**

## NETWORK: INNOVATION AND POTENTIAL PARTNERS

<b>LOCAL INNOVATION CLUSTERS</b>	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
<b>UNIVERSITY</b>	CEBB	Engineering schools (CENTRALE SUPELEC, AGROPARISTECH, NEOMA, URCA) in bioeconomy, green chemistry, biorefinery
<b>POTENTIAL PARTNERS</b>	ADM	An important company in the transformation of cereals into starch-based products (processing of 450 kt/yr of wheat)
	AIR LIQUIDE	Industrial production of 'green' carbon dioxide
	CRISTANOL	The largest ethanol plant in Europe, with two production lines (sugar-beet and wheat) and a total output of 3.5 Mhl/yr
	CRISTAL UNION	Production plant of sugar from sugar-beet (production: 250 kt/yr of sugar and 130kt/yr of dehydrated beet pulp and alfalfa)
	GIVAUDAN	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