

REGIONAL BIOECONOMY PROFILE

PICARDIE (FR)



POLICY

Structure of the Bioeconomy Institutional system

Responsible Regional
Authorities / Agencies

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Regional Council of Picardie
www.picardie.fr

List of " bioeconomy-relevant" regional policy initiatives

Regional Bioeconomy
Smart Specialisation Strategy
(if applicable)

Region Picardie – Smart specialisation strategy 2014-2020

Bioeconomy and plant refining are at the heart of the smart specialisation strategy built by Picardie for 2014-2020.

<http://www.picardie.fr/Strategie-de-specialisation>

http://www.picardie.fr/IMG/pdf/8/d/8/ris3_picardie.pdf

REGIONAL BIOECONOMY RELATED POLICY INITIATIVES

BIOMASS PRODUCTION (Agriculture, Forestry, Marine, Aquaculture, and Waste) **TBC**

BIOMASS CONVERSION (Food/feed, Energy, and Industry uses) **TBC**

ADDITIONAL REGIONAL POLICY INFORMATION

- ✓ **Support to Industries & Agro-Ressources Cluster (IAR)**, focused on two priority issues:
 - becoming the European benchmark for agro-resources and their industrial transformation,
 - being recognised as the 'showcase' region for biorefining and the use of agro-resources.

www.iar-pole.com
- ✓ **Support to 2 open innovative platforms for biomass valorization :**
 - **P.I.V.E.R.T** : centre for research, innovation, experimentation and training in oilseed biomass-based plant chemistry.

www.picardie.fr/pivert



- **IMPROVE** : R&D institute dedicated to vegetal proteins valorisation
<http://www.improve-innov.com/>
- ✓ **Support to Agro-Transfert Ressources et Territoires** which leads multi-partner projects designed to help agricultural and agro-industrial stakeholders work towards durable development
www.agro-transfert-rt.org
- ✓ **Support to Centre de Valorisation des Glucides**, an agro-industrial technical institute for products and processes development from plant green chemistry.
www.cvgpn.com
- ✓ **Support to CODEM Picardie**, a transfer of technology centre devoted to eco-materials and sustainable construction.
www.codempicardie.com
- ✓ **Support of universities & research centres**



RESEARCH

R&D Investments (public and private sector)

REGIONAL PUBLIC R&D INVESTMENT in Bioeconomy (2006-2014)

Info source: Region

Since 2006, the Regional Council of Picardie has invested over **45 million €** in research & innovation for new uses of agro-resources,

- supporting clusters (especially Industries & Agro-Ressources), universities, institutes of research and technical/technological centres ;
- supporting collaborative R&D projects ;
- supporting the creation of open innovative platforms for biomass valorization.

PRIVATE R&D INVESTMENT in Bioeconomy

Info source: Region/Industry

3 examples of strategic industrial investment in bioeconomy in Picardie (**TBC**) :

- Tereos/Dupont : http://www.tereos.com/upload/pdf/CP_Inauguration_Betaine_fr.pdf
- Oleon-Novance : development of the R&D centre - <http://www.novance.com/recherche-innovation.html>
- Bostik : construction of a new R&D centre – 10 M€ - <http://www.usinenouvelle.com/article/bostik-lance-la-construction-de-son-centre-de-r-d-de-compiegne.N200152>

R&D Programmes in Bioeconomy

EUROPEAN R&D ACTIVITIES in Bioeconomy

Listing of Regional Participation in EU bioeconomy R&D projects (TBC)

Examples of EU bioeconomy R&D projects

- ✓ **FP 7 - STAR COLIBRI** : <http://www.star-colibri.eu/>

The Star-COLIBRI project (Strategic Research Targets for 2020 – Collaboration Initiative on Biorefineries) is a Coordination and Support Action funded by the European Commission's 7th Framework Programme for 2 years starting on November 1st 2009. The project involves 5 European Technology Platforms and 5 major European Research organisations. **IAR cluster was WP3 leader.**

Project cost : 2.41 M€ / EC Funding : 1.95 M€

- ✓ **H2020 – JTI Bio-Based Industries Initiative** : <http://bbi-europe.eu/>
<http://biconsortium.eu>



The Bio-Based Industries Joint Undertaking is a new €3.7 billion Public-Private Partnership between the EU and the Bio-based Industries Consortium. Operating under Horizon 2020, it is driven by the Vision and Strategic Innovation and Research Agenda (SIRA) developed by the industry.

Many regional stakeholders joined the partnership including IAR Cluster.

IAR is one of the 40 industrial founding partners of the Bio-based Industries Consortium (BIC). BIC is an association established in 2012 to represent collectively the partners of the private sector

- ✓ **BIOTFUEL** (development of second-generation biofuels)
Project cost : 113 M€ / ERDF : 1.6 M€ / ADEME : 30 M€ / Picardie Region : 1.6 M€
- ✓ **BIOREFINERY EUROVIEW** : IAR cluster coordinated the EU project **Biorefinery Euroview**:
 - Mapping of industrial biorefineries in Europe
 - Identification of hurdles and enablers of European biorefinery development.
- ✓ **TRANSVAL**, INTERREG IV project, had for ambition to create partnerships between scientists and industrials across the border (France/Belgium).

Participation in other EU bioeconomy R&D projects:

EU R&D funding projects (FP7 or H2020)	EC Contribution	N.A. M EUR
EU regional development funding (ERDF)	EC Contribution	N.A. M EUR
EU rural development funding	EC Contribution	N.A. M EUR

NATIONAL/REGIONAL R&D Activities in Bioeconomy

Info: Regional Activities funded by MS or Region (no EC funds)

Listing of Regional Bioeconomy Research Programmes

TBC

Examples of Regional Bioeconomy Research Projects

- ✓ **POLYOL VERT (2006-2012)** :
<http://www.picardie.fr/Des-mousses-polyurethanes-plus>
<http://www.agrobiobase.com/en/database/suppliers/chemistry-formulation-synthesis/novance-oleon>
TBC



MARKETS

References to existing Market Studies/Forecasts about Bioeconomy

See below examples of "some" quantitative data that may possibly be available for "some" bioeconomy sectors

Biomass production sectors	Enterprises number	Employment number	Turnover M EUR	Value added M EUR
Agriculture	13 700	6 400	N.A.	1 564
Forestry, Marine, Aquaculture	4 100	2 416	N.A.	N.A.

Source : Atlas du système productif en Picardie - Octobre 2013 - Insee Picardie

Biomass conversion sectors	Enterprises number	Employment number	Turnover M EUR	Value added M EUR
Food/Feed	196	12 000	N.A.	N.A.
Energy	N.A.	N.A.	N.A.	N.A.
Industrial incl. - Paper - Wood - Chemicals -	N.A.	N.A.	N.A.	N.A.

i GENERAL INFORMATION

Main/Regional economic and social indicators (source Eurostat/DG REGIO)

Info source: Eurostat

REGIONAL DEMOGRAPHY (2013)

Number of inhabitants	people	1 924 737p
Population by age group	Share of total population (%)	31.9 % (<25) 52.2 % (25-64) 28.8 % (>64)

REGIONAL ECONOMY (2011)

GDP	M EUR	44 932 M EUR
GDP per head	Euro per inhabitant	23 400
GDP per head	Euro per inhabitant in percentage of the EU average	93
GDP PPS	Euro per inhabitant	20 800
GDP PPS	Euro per inhabitant in percentage of the EU average	83

REGIONAL ECONOMY STRUCTURE

Agriculture weight in the economy	% of GVA % of employment	N.A. % N.A. %
Industry & construction weight in the economy	% of GVA % of employment	N.A. % N.A. %
Services weight in the economy	% of GVA % of employment	N.A. % N.A. %

REGIONAL SOCIAL (2013)

Employment rate, aged 20-64	% of population, aged 20-64	65.0 %
Unemployment rate	% of the active population	29.4 %
Unemployment rate of young people	% of the active population less than 25 years	10.8 %

Symbols, Units, Acronyms used

%	Percentage
N.A.	Not Available
T.B.C.	To Be Confirmed
p	People
EUR	Euro
Bn	Billion
M EUR	Million Euros
FP6	Sixth Framework Programme
FP7	Seventh Framework Programme
H2020	Horizon 2020
R&D	Research and Development
KBBE	
ERDF	EU regional development funding
GDP	Gross Domestic Product
GDP PPS	Gross Domestic Product in Purchasing Power Standards
GVA	Gross Value Added

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