CBE JU IN YOUR COUNTRY

The numbers behind the CBE JU’s support for the circular bio-based economy in Europe
**Austria**

- **Demonstration plant**

**Opportunities for the bioeconomy**

- Socio-economic benefits
- Innovation
- Job creation

**Main resources in CBE JU projects**

- Forestry residues
- Agro residues
- Municipal waste

**SUSFERT**

- **Company**: RTDS Group
- **Products**: Sustainable and multi-functional fertilisers.
- **Resource**: Residues from agriculture and forestry
- **Benefit**: The SUSFERT project will help Europe reduce rock phosphate imports for fertilisers and strengthen Europe’s circular economy.

**CBE JU funding in Austria**

- **€19 million**
- **€4M** SME funding
- **€12M** SME funding
- **€3M** SME funding

- **16 SME participants**
- **€6M** SME funding

- **26 beneficiaries**
- **40 beneficiaries**
- **3 coordinated projects**

**Check all the projects in the country**

**Private companies**

**Universities & research centres**

**Other**

---

**Co-funded by the European Union**

**Biobased Industries Consortium**
Belgium

Opportunities for the bioeconomy

Socio-economic benefits

Check all the projects in the country

Main resources in CBE JU projects

Innovation

Job creation

Private companies

Universities & research centres

Other

SME funding

36 million

SME participants

33

72 beneficiaries

9 coordinated projects

Demonstration plant

CBE JU funding in Belgium

63 million

22M

17M

24M

Belgium

EUROPEAN PARTNERSHIP

Bio-based Industries Consortium

Co-funded by the European Union

Coordinated projects

9

Universities & research centres

Other

Private companies

INNOVATION

FORESTRY RESIDUES

AGRO RESIDUES

INDUSTRIAL SIDESTREAMS

17
Bulgaria

Opportunities for the bioeconomy

- Socio-economic benefits
  - Rural Development
  - Job Creation

- Main resources in CBE JU projects
  - Agro residues

€451 thousand
CBE JU funding in Bulgaria

- €326K SME funding
- €10K
- €115K

2 SME participants

5 beneficiaries

Check all the projects in the country

Private companies
Universities & research centres
Other
Croatia

Opportunities for the bioeconomy

Socio-economic benefits

Main resources in CBE JU projects

CBE JU funding in Croatia

€6 million

3 SME participants

€5 million SME funding

7 beneficiaries

5 beneficiaries

Universities & research centres

Private companies

Check all the projects in the country

RURAL DEVELOPMENT

INNOVATION

FORESTRY RESIDUES

AGRO RESIDUES

MUNICIPAL WASTE

Demonstration plant

Croatia

Biobased Industries Consortium

EUROPEAN PARTNERSHIP

Co-funded by the European Union
Cyprus

Opportunities for the bioeconomy

Socio-economic benefits

RURAL DEVELOPMENT
JOB CREATION

Main resources in CBE JU projects

AGRO RESIDUES
AQUATIC ALGAE

100% SME funding

3 beneficiaries

100% private companies

Check all the projects in the country

CBE JU funding in Cyprus

€1 million

Co-funded by the European Union
Czechia

Opportunities for the bioeconomy

- Socio-economic benefits
  - Rural Development
  - Income Diversification
  - Job Creation

- Main resources in CBE JU projects
  - Forestry
  - Agro residues
  - Municipal Waste

$/2 million SME funding

$/3.8 million CBE JU funding in Czechia

- €1.7M
- €1.8M
- €278K

5 SME participants

10 beneficiaries

Check all the projects in the country

- Private companies
- Universities & research centres
- Other
Denmark

Opportunities for the bioeconomy

Socio-economic benefits
- Innovation
- Job creation

Main resources in CBE JU projects
- Forestry residues
- Agro residues
- Municipal waste

MACRO CASCADE

Company: Petferm
Product: Algae-based feed that boosts animal health.
Resource: Algae
Benefit: This Danish-led project has developed a sustainable & circular production process to improve animal health. Seaweed cultivation can address global challenges like population growth, resource depletion and climate change.

EUROPEAN PARTNERSHIP

€17 million CBE JU funding in Denmark

- SME funding: €10 million
  - 17 SME participants
  - 21 beneficiaries
  - 5 coordinated projects

Private companies
Universities & research centres
Other

Check all the projects in the country
### SWEETWOODS

**Biorefinery**
- **Location**: Imavere, Järva County
- **Company**: Fibenol
- **Resource**: Wood residues

**Products**
Novel chemicals that can be used to create sustainable bio-based products like insulation foams, burial urns, and protein-rich ingredients for food.

**Benefit**
The SWEETWOODS industrial biorefinery replaces fossil-based chemicals, revolutionising manufacturing practices and leading the way towards a greener future in Europe.

### Opportunities for the bioeconomy

- **Socio-economic benefits**
- **Main resources in CBE JU projects**

### Estonia

- **First-of-its-kind industrial biorefinery**
- **CBE JU funding in Estonia**
  - **SME funding**
    - **€561K**
    - **2 SME participants**
    - **2 coordinated projects**
  - **Total**: **€20 million**
    - **€19.5M**
    - **€676K**
    - **€41K**

- **6 beneficiaries**
- **2 coordinated projects**
- **1**

### Other

- **Universities & research centres**
- **Private companies**
- **Other**

*Check all the projects in the country*
Faroe Islands

Opportunities for the bioeconomy

- Socio-economic benefits
- Main resources in CBE JU projects

Socio-economic benefits

Main resources in CBE JU projects

Check all the projects in the country

SME funding

1 SME participant

1 beneficiary

€544K

CBE JU funding in Faroe Islands

€544 thousand

Private companies
Finland

Opportunities for the bioeconomy

Socio-economic benefits
- INNOVATION
- JOB CREATION

Main resources in CBE JU projects
- AGRO RESIDUES
- FORESTRY RESIDUES

Check all the projects in the country

Demonstration plant

€33 million CBE JU funding in Finland

- €13M
- €19M
- €1M

6 SME participants

€10 million SME funding

25 beneficiaries
- 10 coordinated project

36 beneficiaries

Private companies

Universities & research centres

Other

EUROPEAN PARTNERSHIP

Co-funded by the European Union
**EUROPEAN PARTNERSHIP**

€117 million
CBE JU funding in France

€97M
SME funding

FARMÝNG

46
SME participants

92
beneficiaries

119
14 coordinated projects

**Opportunities for the bioeconomy**

- **Socio-economic benefits**
  - INNOVATION
  - JOB CREATION

- **Main resources in CBE JU projects**
  - FORESTRY RESIDUES
  - AGRO RESIDUES
  - AQUATIC: ALGAE AND FISHERY RESIDUES

**FARMÝNG**

- **Biorefinery location**
  - Poulainville, Hauts-de-France

- **Company**
  - YNSECT

- **Resource**
  - Mealworms

**Products**
100% bio-based proteins for animal feed & food.

**Benefit**
The FARMÝNG project uses mealworms to create sustainable proteins with minimal environmental impact. This approach reduces Europe’s over-reliance on protein imports. YNSECT plans to expand the biorefinery concept to other locations.

**OPPORTUNITIES**

- First-of-its-kind industrial biorefinery
- Demonstration plant

**FIRST-OF-ITS-KIND**

**Demonstration plant**

**France**

**Checking the projects in the country**
Germany

Opportunities for the bioeconomy

Socio-economic benefits

• INNOVATION
• JOB CREATION

Main resources in CBE JU projects

• AGRO RESIDUES
• FORESTRY RESIDUES
• INDUSTRIAL SIDESTREAMS

Chances for the bioeconomy

• INNOVATION
• JOB CREATION

Main resources in CBE JU projects

• AGRO RESIDUES
• FORESTRY RESIDUES
• INDUSTRIAL SIDESTREAMS

BIOSMART

Resource
Crop residues

Products
Bio-based packaging with an oxygen sensor

Benefit
Compostable and recyclable BIOSMART packaging solutions aim to extend food shelf life and reduce packaging waste.

Check all the projects in the country

Co-funded by the European Union

EUROPEAN PARTNERSHIP
Greece

Opportunities for the bioeconomy

Socio-economic benefits
- Rural Development
- Job Creation

Main resources in CBE JU projects
- Agro residues
- Forestry residues
- Aquatic algae and fishery residues

SME funding
- €7 million

SME participants
- 11

CBE JU funding in Greece
- €11 million
  - €6M
  - €4M
  - €1M

19 beneficiaries
- 2 coordinated project

Check all the projects in the country

- Private companies
- Universities & research centres
- Other
EUROPEAN PARTNERSHIP

CBE JU funding in Hungary

€788 thousand

SME funding

5 SME participants

€786K

1 beneficiary

Universities & research centres

Private companies

Opportunities for the bioeconomy

Socio-economic benefits

RURAL DEVELOPMENT

JOB CREATION

Main resources in CBE JU projects

FORESTRY RESIDUES

AGRO RESIDUES

Check all the projects in the country

Hungary
Iceland

opportunities for the bioeconomy

socio-economic benefits

Main resources in CBE JU projects

INNOVATION

forestry residues

agro residues

aquatic algae

€2.2 million
CBE JU funding in Iceland

€2.1M
Universities & research centres

€73K
Private companies

4 beneficiaries

1 coordinated project

check all the projects in the country
Ireland

Opportunities for the bioeconomy

Socio-economic benefits
- JOB CREATION
- INNOVATION

Main resources in CBE JU projects
- AGRO RESIDUES
- MUNICIPAL WASTE
- AQUATIC ALGAE

Check all the projects in the country

EUROPEAN PARTNERSHIP

First-of-its-kind industrial biorefinery
Demonstration plant

CBE JU funding in Ireland

€27 million

€19M
€7M
€1M

11 SME participants

SME funding
€5 million

21 beneficiaries
3 coordinated projects

12

Private companies
Universities & research centres
Other
Opportunities for the bioeconomy

Socio-economic benefits

Main resources in CBE JU projects

5 SME participants

5 beneficiaries

EUROPEAN PARTNERSHIP

CBE JU funding in Israel

€3 million

SME funding

€3M

Check all the projects in the country

Private companies

INNOVATION
EUROPEAN PARTNERSHIP

€93 million
CBE JU funding in Italy

54 SME participants

€67M €23M €3M

€21 million
SME funding

83 beneficiaries

127 beneficiaries

10 coordinated projects

FIRST2RUN

Biorefinery
location
Porto Torres, Sardinia

Company
Novamont

Resource
Cardoons grown on marginal lands

Products
Bio-based compostable coffee pods.

Benefit
This Italian-led company developed bio-based solutions by collaborating with local farmers in Sardinia. Together, they turned cardoon plant oil into bio-based materials and products in this industrial biorefinery showing Italy’s leadership in the bio-based sector.

Opportunities for the bioeconomy

Socio-economic benefits
- REINDUSTRIALISATION
- RURAL DEVELOPMENT
- JOB CREATION

Main resources in CBE JU projects
- FORESTRY RESIDUES
- AGRO RESIDUES
- MUNICIPAL WASTE

Italy

FIRST2RUN

First-of-its-kind industrial biorefinery

Demonstration plant

Check all the projects in the country

Private companies

Universities & research centres

Other

Co-funded by the European Union
Overview of Latvia's CBE JU funding and VIOBOND project:

- **€9 million** in total CBE JU funding in Latvia, with:
  - **€8M** SME funding
  - **€1M** for universities & research centres

- **1 SME participant**

**VIOBOND**

- **Location**: Riga
- **Company**: Latvijas Finieris
- **Resource**: Wood residues (lignin)
- **Products**: Bio-based resins
- **Benefit**: This industrial biorefinery showcases the feasibility and market potential of bio-based resins for eco-friendly wood panels and construction materials. The project could be replicated across Europe, highlighting Latvia’s leadership in promoting greener construction materials.
Lithuania

Opportunities for the bioeconomy

Socio-economic benefits
- Innovation
- Income diversification

Main resources in CBE JU projects
- Forestry residues
- Agro residues

€368 thousand
CBE JU funding in Lithuania

1 beneficiary
100% private companies
100% SME funding

Check all the projects in the country
Opportunities for the bioeconomy

- Socio-economic benefits
- Main resources in CBE JU projects

INNOVATION

FORESTRY

RESIDUES

Check all the projects in the country

Luxembourg

€632 thousand

CBE JU funding in Luxembourg

1 beneficiary

100% universities & research centres

Bio-based Industries Consortium

EUROPEAN PARTNERSHIP

Co-funded by the European Union
The Netherlands

**First-of-its-kind industrial biorefinery**
**Demonstration plant**

**The Netherlands**

**EUROPEAN PARTNERSHIP**

**€86 million**

CBE JU funding in the Netherlands

**€61M**
**€21M**
**€4M**

**€32 million**

SME funding

**103 beneficiaries**

15 coordinated projects

**40 SME participants**

**79**

PEFERENCE

**Biorefinery**

**location**
Delfzijl, Groningen

**Company**
Avantium

**Resource**
Crop residues

**Products**
Bio-based & recyclable material for beer bottles.

**Benefit**
The Netherlands produces a sustainable material to make beer bottles with a lower carbon footprint, while maintaining the beer quality. Carlsberg has successfully tested a prototype bottle developed in the PEFerence project, which is supporting the transition to sustainable solutions for the beverage and other industries.

**Opportunities for the bioeconomy**

**Socio-economic benefits**

**INNOVATION**

**Main resources in CBE JU projects**

- Forestry residues
- Agro residues
- Aquatic: algae and fishery residues

**Check all the projects in the country**

**Co-funded by the European Union**
North Macedonia

Opportunities for the bioeconomy

Socio-economic benefits

Main resources in CBE JU projects

RURAL DEVELOPMENT

AGRO RESIDUES | MUNICIPAL WASTE

Check all the projects in the country

Private companies

€182 thousand
CBE JU funding in North Macedonia

€182K
SME funding

1 SME participant

1 beneficiary

Biobased Industries Consortium

EUROPEAN PARTNERSHIP

Co-funded by the European Union
First-of-its-kind industrial biorefinery

Demonstration plant

Norway

Opportunities for the bioeconomy

Socio-economic benefits

Main resources in CBE JU projects

Forestry residues
Agro residues
Aquatic algae

INNOVATION

Main resources in CBE JU projects

Forestry residues
Agro residues
Aquatic algae

INNOVATION

CBE JU funding in Norway

€42 million

€32M

€10M

€150K

SME funding

€6 million

SME participants

11

Beneficiaries

30

7 coordinated project

Check all the projects in the country

Private companies
Universities & research centres
Other

11

18

1

1

Norway

Opportunities for the bioeconomy

Socio-economic benefits

Main resources in CBE JU projects

Forestry residues
Agro residues
Aquatic algae

INNOVATION

CBE JU funding in Norway

€42 million

€32M

€10M

€150K

SME funding

€6 million

SME participants

11

Beneficiaries

30

7 coordinated project

Check all the projects in the country

Private companies
Universities & research centres
Other

11

18

1

1

EUROPEAN PARTNERSHIP

Co-funded by the European Union

First-of-its-kind industrial biorefinery

Demonstration plant

Norway

Opportunities for the bioeconomy

Socio-economic benefits

Main resources in CBE JU projects

Forestry residues
Agro residues
Aquatic algae

INNOVATION

CBE JU funding in Norway

€42 million

€32M

€10M

€150K

SME funding

€6 million

SME participants

11

Beneficiaries

30

7 coordinated project

Check all the projects in the country

Private companies
Universities & research centres
Other

11

18

1

1

EUROPEAN PARTNERSHIP

Co-funded by the European Union
Poland

Opportunities for the bioeconomy

- Socio-economic benefits
  - INCOME DIVERSIFICATION
  - RURAL DEVELOPMENT
  - JOB CREATION

- Main resources in CBE JU projects
  - FORESTRY RESIDUES
  - AGRO RESIDUES

SME funding

- €4M
- 8 SME participants

CBE JU funding in Poland

- €9 million
- €6M
- €2M
- €1M

26 beneficiaries

- 1 coordinated project

Check all the projects in the country

Private companies

Universities & research centres

Other

Co-funded by the European Union
Portugal

Opportunities for the bioeconomy

- Socio-economic benefits
  - Rural Development
  - Job Creation
  - Innovation

Main resources in CBE JU projects
- Agro residues
- Forestry residues
- Aquatic algae

CBE JU funding in Portugal

- €9 million SME funding
- 12 SME participants
- 15 beneficiaries
- 17 opportunities

Main resources in CBE JU projects

Check all the projects in the country

Private companies
Universities & research centres

Co-funded by the European Union
LIGNOFLAG

**Biorefinery location**: Podari, Dolj County

**Company**: Clariant

**Resource**: Straw

**Products**: Bio-based ethanol & fertilisers.

**Benefit**: LIGNOFLAG has established the world's first industrial biorefinery to produce bio-based ethanol from non-food resources. The project is making ethanol from straw and reducing its carbon footprint by up to 95%. This contributes to cutting the EU's dependence on oil imports.

**CBE JU funding in Romania**
- **€21 million**
- **€20M**
- **€1M**

**Opportunities for the bioeconomy**

- Socio-economic benefits: INCOME DIVERSIFICATION, RURAL DEVELOPMENT, JOB CREATION
- Main resources in CBE JU projects: FORESTRY RESIDUES, AGRO RESIDUES

**Romania**

First-of-its-kind industrial biorefinery

**Romania**

- **Universities & research centres**: 5
- **Private companies**: 4
- **SME participants**: 4
- **beneficiaries**: 8

Check all the projects in the country
Serbia

€691 thousand
CBE JU funding in Serbia

- €258K
- €246K
- €187K

2 SME participants

€301K
SME funding

4 beneficiaries

Check all the projects in the country

Opportunities for the bioeconomy

Socio-economic benefits
- RURAL DEVELOPMENT
- JOB CREATION

Main resources in CBE JU projects
- FORESTRY RESIDUES
- AGRO RESIDUES

Private companies
Universities & research centres
Other
Slovakia

Opportunities for the bioeconomy

Socio-economic benefits
- INCOME DIVERSIFICATION
- RURAL DEVELOPMENT
- JOB CREATION

Main resources in CBE JU projects
- FORESTRY RESIDUES
- AGRO RESIDUES

Check all the projects in the country

EUROPEAN PARTNERSHIP

CBE JU funding in Slovakia

€2 million

€1,4M
€603K

3 SME participants

€398K
SME funding

10 beneficiaries

Private companies

Universities & research centres

Main resources in CBE JU projects

FORESTRY
AGRO
RESIDUES
RESIDUES

Co-funded by the European Union
**EFFECTIVE**

**Biorefinery**
- **location**: Ljubljana

**Company**
- Aquafil

**Resource**
- Waste from sugar production and sustainably sourced vegetable oils

**Products**
- Bio-based nylon.

**Benefit**
- Aquafil leads the way in sustainable textiles; its bio-based nylon reduces CO₂ emissions by over 20% and can be used in different applications, such as carpets and sportswear. The material is versatile and has a sustainable end-of-life while maintaining high textile quality. The project strongly focused on circularity, recycling and composting of the developed bio-based materials.

**Opportunities for the bioeconomy**

**Socio-economic benefits**
- **INNOVATION**
- **JOB CREATION**

**Main resources in CBE JU projects**
- Forestry residues
- Agro residues
- Aquatic

**Slovenia**

- Demonstration plant
- €2 million SME funding
- €3M €2M €240K SME funding
- 5 beneficiaries
- 1 coordinated project
- 4 SME participants

**CBE JU funding in Slovenia**
- €5 million
- €2 million SME funding

**Private companies**

**Universities & research centres**

**Other**

**Check all the projects in the country**
Spain

First-of-its-kind industrial biorefinery

Demonstration plant

97 SME participants

97 SME participants

197 beneficiaries

197 beneficiaries

53 coordinated projects

53 coordinated projects

€65 million

SME funding

€65 million

SME funding

€149 million

CBE JU funding in Spain

€149 million

CBE JU funding in Spain

€68M

€74M

€7M

€68M

€74M

€7M

CIRCULAR BIOCARBON

Biorefinery location
Zaragoza, Aragon

Company
Urbaser

Resource
Organic fraction of municipal solid waste

Products
Bio-based materials for use in night vision cameras and telecommunication devices, among other applications.

Benefit
These sustainable materials will not only offer cutting-edge technology, but they will also contribute to reducing waste going to landfill and waste incineration.

Opportunities for the bioeconomy

Socio-economic benefits

RURAL DEVELOPMENT

JOB CREATION

INNOVATION

Main resources in CBE JU projects

AGRO RESIDUES

FORESTRY RESIDUES

AQUATIC

Check all the projects in the country

Universities & research centres

Private companies

Other

Bio-based Industries Consortium

EUROPEAN PARTNERSHIP

Co-funded by the European Union
Opportunities for the bioeconomy

**Company**
IKEA

**Products**
Innovative bio-based binders.

**Resource**
Crop residues

**Benefit**
IKEA in Sweden has successfully produced furniture with innovative and sustainable bio-based glues. These adhesives have a lower carbon footprint and improved performance properties, highlighting Sweden’s commitment to a circular bio-based economy and sustainable innovation.
Switzerland

Opportunities for the bioeconomy

Socio-economic benefits

Main resources in CBE JU projects

AGRO RESIDUES
FORESTRY RESIDUES
INDUSTRIAL SIDESTREAMS

Check all the projects in the country

EUROPEAN PARTNERSHIP

CBE JU funding in Switzerland

€6 million

€5M

€1M

5 SME participants

17 beneficiaries

1 coordinated project

1 Universities & research centres

14 Private companies

2 Other

5 SME funding

€3 million
Turkey

Opportunities for the bioeconomy

Socio-economic benefits

Main resources in CBE JU projects

RURAL DEVELOPMENT

Check all the projects in the country

3 SME participants

€423K SME funding

9 beneficiaries

€845K

CBE JU funding in Turkey

Private companies

Forestry residues

Agro residues

Co-funded by the European Union

Bio-based Industries Consortium

EUROPEAN PARTNERSHIP
United Kingdom

Opportunities for the bioeconomy

- Socio-economic benefits
- Main resources in CBE JU projects

SME funding

- €15M

CBE JU funding in United Kingdom

- €35 million
  - €22M
  - €12M
  - €1M

65 beneficiaries

- 5 coordinated projects

30 SME participants

Demonstration plant

Check all the projects in the country

Private companies
Universities & research centres
Other