



Exhibition Catalogue

ONLINE | 26 April – 29 April 2021



EUBCE

29th European Biomass
Conference & Exhibition

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Companies | Organisations Research Institutes

A ELÉCTRICA LDA

ANCRE

BlueSens gas sensor GmbH

BPC Instruments AB

Dr. Ritter Apparatebau

European Sustainable Phosphorus Platform (ESPP)

ETA Florence

EUBIA

EUBCE

Fachagentur Nachwachsende Rohstoffe e.V. (FNR)

IEA Bioenergy

Innovarum

Hasle Refractories A/S

LECO Europe BV

LSB

SUBERBINDER

Umwelt- und Ingenieurtechnik GmbH Dresden

Wageningen University & Research, Knowledge base programme Circular and Climate Neutral

WIP Renewable Energies

EU Projects

BECOOOL

BioMates / Imperial College

BIKE

BIO4A

EBIO

ETIP Bioenergy

FlexJET

NEGEM

NextGenRoadFuels

Phy2Climate

Pulp&Fuel

SET4BIO

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will make in EUBCE the first presentation worldwide
of this new revolutionary machine

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www.aelectrica.pt





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something
important?

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continuously!



Learn more about
BlueSens



ANCRE

Alliance Nationale de Coordination de la Recherche pour l'Énergie
<https://www.allianceenergie.fr/>



Created on July 17, 2009, the French National Alliance for the Coordination of Energy Research brings together 19 French research organizations, and conferences of higher education institutions in the field of energy.

OUR MISSIONS

Strengthen synergies and partnerships between research organizations, universities and companies involved in the energy sector

Contribute to the development of the national energy research strategy as well as the programming of funding agencies in this area.

Identify the scientific and technical barriers that limit industrial developments

Propose research and innovation programs, and the modalities of their implementation

Funding and Associate members: CEA, CNRS, CPU, IFPEN - Andra, BRGM, CDEFI, Cerema, Cirad, CSTB, Ifremer, Ineris, INRAE, Inria, IRD, IRSN, LNE, Onera, Université Gustave Eiffel



We believe that having the right tools is essential to optimise the production of biogas. We have therefore developed a unique lineup of award-winning, easy-to-use products that save time and provide the accurate data you need for the best results in your field.

Bioprocess Control's flagship product the **Automatic Methane Potential Test System II (AMPTS II)** has quickly become the preferred analytical instrument around the world for conducting biochemical methane potential (BMP) tests. It is used by both academic and industrial actors in the biogas industry.

Bioprocess Control also offers a portfolio of exciting products in the areas of **substrate analysis, process simulation, gas flow measurement**, as well as a series of **bioreactors**.

www.bioprocesscontrol.com



The new RITTER Biogas Batch Fermentation System



with automatic data logging in real time

- > Batches of up to **18 fermentation bottles (0.5 ltr / 1 ltr / 2 ltrs)** in all new and redesigned heating oven
- > Up to **18 RITTER MilliGascounters** with individual calibration certificate
- > Automated data acquisition of gas volume and flow rate through real time data logging with Windows® software »**RIGAMO**«
- > Optional **CO2 absorption system** with absorption rate better than 99%
- > No absorption limit indicator necessary

„Worldwide - with the precision of the original!“



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THE MOST ADVANCED
LABORATORY BIOGAS
BATCH-FERMENTATION
SYSTEM AT
E-EUBCE 2021

Incl.
magnetic
coupling for
absolute gas
tightness of
fermentation
bottle

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FNR | Agency for Renewable Resources: Supporting partner in R&D project funding, information and public relations

The Agency for Renewable Resources (Fachagentur Nachwachsende Rohstoffe e.V., FNR) was founded in 1993 as a government initiative to support research and development projects in the area of renewable resources. As a project management organisation of the Federal Ministry of Food and Agriculture (BMEL), FNR supervises BMEL's funding programme 'Renewable Resources'. FNR also manages measures within the Energy and Climate Fund. These include the Forest Climate Funds for the Adaptation of Forests to Climate Change supported by BMEL and the Federal Ministry for Environment (BMU).

International activities in both bioenergy and bioeconomy sectors are covered by the Department for EU and International collaborations. In this context, FNR is involved in panel work, e.g. IEA Bioenergy, IEA AMF TCP, GBEP. Further, FNR provides information about renewable resources at trade fairs, exhibitions and is represented in social media: Follow FNR on e.g. **Twitter, Instagram and LinkedIn**.

For further information, visit our websites www.fnr.de or international.fnr.de and **get in touch** with us - also here at EUBCE.

With support from



by decision of the
German Bundestag



European Sustainable Phosphorus Platform



Events

ESPP



Research & Regulatory Activities



Information

ESPP ensures knowledge sharing, experience transfer and networking for opportunities in the field of phosphorus management, facilitates discussion between the market, stakeholders and regulators, addresses regulatory obstacles, contributes to policy proposals, circulates information by newsletters, website, conferences and publications, promotes Platform Members' activities, and contributes to define a long-term vision for phosphorus sustainability in Europe.

info@phosphorusplatform.eu - www.phosphorusplatform.eu

ETA Florence Renewable Energies has been envisioning, transforming and accelerating green innovations for over 26 years.

ETA's core services support the development, execution, and exploitation of renewable energy projects, by providing project and stakeholder management, technical input, as well as, communication services.



Strategic
consulting



Communication
&
dissemination



Publications



Events
organising

ETA has a 5-star rating for leading and coordinating the communication and dissemination activities of EU funded projects.



Discover more @
www.etaflorence.it

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EUBCE

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FUTURE
SCENARIOS
TOGETHER**

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European Biomass Industry Association



www.eubia.org



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Follow us #EUBIA



Policy monitoring and outreach
EUBIA closely monitors and informs its members on the evolution of EU policy. We actively support initiatives to promote the development of the biomass sector.

EU Projects

EUBIA is actively involved in several EU projects promoting sustainable use of biomass in the bio-based economy, including agri-food and bioenergy sectors.



Communication and events
EUBIA disseminates all the relevant information about the biomass sector in the EU. We support and co-organize networking events and workshops in our meeting rooms in Brussels, always at the disposal of our members.

STOP BY OUR VIRTUAL EXHIBITION BOOTH

WE PROTECT YOUR PROCESS



OUR SERVICES

Castables
Pre-cast elements
Gunning materials
Modular Lining
Ceramic Vortex Finder
Technical Design Service
Installation supervision
Refractory Commodities

ONE-STOP-SHOPPING FOR ALL YOUR REFRACTORY NEEDS

HASLE Refractories develops, manufactures, and supplies unique refractory materials for high temperature industries. We serve the cement, power, waste, biomass, steel, glass and paper industries. Build-up, alkali attack, abrasion, thermal shock and energy consumption are challenges that can be minimized by using the right castable or precast solution. We help companies in high temperature industries increase their process performance and profitability, with reduced downtime and lower operational costs.

We have over 175 years of experience in refractories, and our work is based on our own secret recipes. We use solely virgin materials and test them at our plant to secure a consistent high quality.

Are you dealing with coating or chemical challenges in your process? Just stop by our virtual Exhibition Booth to talk to our experienced sales representatives and learn about our many refractory solutions.



www.hasle-refractories.com

Follow us on LinkedIn or Facebook to see weekly case stories and updates



An International Collaboration in Bioenergy

IEA Bioenergy is a Technology Collaboration Programme (TCP), functioning within a framework created by the International Energy Agency (IEA).

Goals:

- to stimulate international collaboration and info exchange on bioenergy research, technology development, demonstration, and policy analysis;
- to facilitate the commercialization and market deployment of environmentally sound, socially acceptable and cost-competitive bioenergy systems.

Our work programme is updated every 3 years and is carried out through Tasks and Special Projects, covering the full value chain from feedstock to final energy product.

We currently have 26 members: 15 European countries + the European Commission, the United States, Canada, Brazil, China, India, Japan, Korea, Australia, New Zealand and South Africa.

Further information: <https://www.ieabioenergy.com/>

Successful projects

6 EIC Accelerator / SME Instrument Phase 2

7 Collaborative projects (4 H2020, 3 BBI).

1 LIFE project with 5 partners

2 EMFF DEMO Project with 4 partners

3 Fast Track to Innovation with 4 partners each
+ FIWARE, Activatte, CAPINFO...

Study on the participation of the Agricultural Sector in the BBI JU: [link](#).

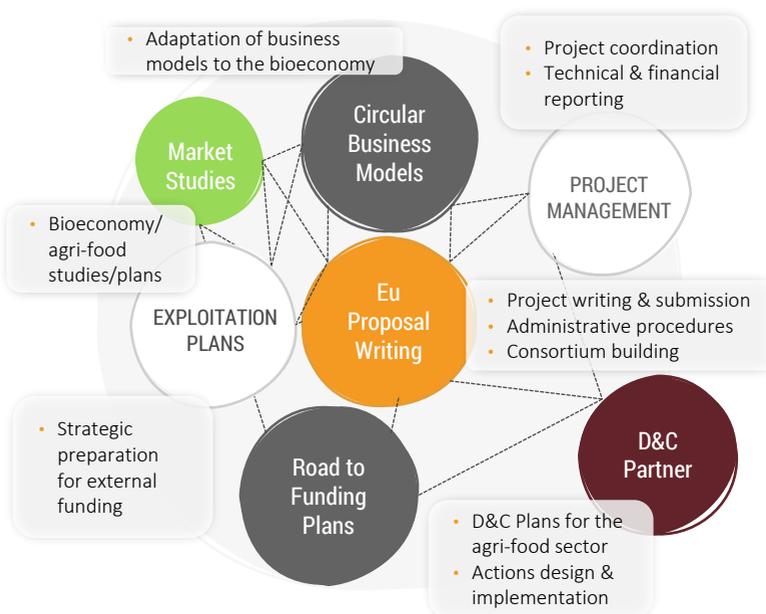
Let's work together in Horizon Europe!

We are a highly professional 8 people team. For Horizon Europe, we will work for Calls for Cluster 4, 5, 6 and for the EIC Accelerator and EIC Pathfinder.

CONTACT US!

Joining our technical background in the agri-food sector and our experience in innovation we support entities as **Innovation Agents**.

We are a Spanish SME specialised in the agri-food and the bioeconomy sector. We work to support companies, universities and Technological Centres (among other organisations) in the EU to develop, scale-up, communicate and release to the market their innovative technologies, processes or services through **a set of comprehensive services**:



Innovarum has an active role in collaborative projects



BioFruitNET
H2020-CSA, ESR: 15/15



GreenProtein
BBI-JU IA, ESR: 15/15



ValueWaste
H2020-IA



BIOCHAMP
H2020-IA



COOPID
H2020-CSA

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PERFECT SOLUTIONS FOR BIOFUELS

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CHNOS ELEMENTAL ANALYSIS
ASH FUSION, CALORIMETRY



PROFESSIONALS IN FUELS ANALYSIS

We are proud to be at the eEUBCE 2021 and present our product portfolio.

EU.LECO.COM

SEE US AT eEUBCE 2021

Advanced Biofuels Coalition

Promoting advanced biofuels in the EU



Photo credit: UPM

LSB is a coalition of leading advanced biofuels producers and technology providers committed to making a strong contribution to meet the EU ambitions of reducing transport emissions. LSB is working closely with the EU institutions and the Member States and promote the use of advanced biofuels in the European Union.

Our vision

Making advanced biofuels from niche to norm.

By 2050 all transport modes will use energy modes that will result in net zero emissions.

Our mission

A strong contribution to meet EU ambition for reducing transport emissions.

Promote advanced biofuels use in the EU.

Member Companies



For more information please visit: <https://www.advancedbiofuelscoalition.eu/>



THE MOST UNIQUE PRODUCT IN THE WORLD



Birch outer bark suberinic acids binder

BINDER PROPERTIES

- Environmentally friendly**
It is obtained from renewable resources and is completely ecological
- Health friendly**
The binder does not contain phenol formaldehyde resins or other substances harmful to human health
- Efficiency**
Much more expedient use of wood resources to produce widely used products
- Moisture resistance**
Suberinic acids are hydrophobic substances, so they are suitable for use in moist outdoor conditions
- Innovative material**
Innovation in the industry with new and simple manufacturing technology.
- Good mechanical properties**
Wood-based panels glued with the suberinic acids binder are characterized by high bending strength, strength of internal bonds and form stability.

APPLICATION

- For obtaining of different moisture resistant wood-based panels (plywood, particleboards etc.)
- For binding of bulk materials (sand, glass, polymers etc.)
- For moisture resistant coatings
- For the obtaining of bio-polyols (polyurethanes etc.)
- As an additive to improve moisture resistance
- As a thermosetting binder for other purposes



ADVANTAGES OF THE SUBERINIC ACIDS BINDER

Moisture resistance

Efficiency

Environmentally friendly

WE OFFER

- License to implement the technology in your factory
- Technical solution for your plant adaptation
- Adaptation of the product to your needs
- Product and technology development research



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UMWELTLEISTUNGEN

Umwelt- und Ingenieurtechnik GmbH Dresden

„Technology pro Environment“



Innovative Bioreactors and Biogas Test Equipment

Umwelt- und Ingenieurtechnik GmbH Dresden (UIT) is a German manufacturer and supplier of Bioreactors and Biogas Test Equipment with an expertise ranging from lab scale over technical scale to fermentation systems under sterile conditions.

As a classic engineering company with production facilities, UIT is capable of providing high quality, turnkey *standard products* as well as *customer specific solutions* on request.



From 2,5 to 60 L standard sizes, modular reactor systems can be equipped with a variety of *sensors and measurement technology*.

Up to 10 Reactors of different sizes can be connected to one high resolution gas analyzer. Classic biogas application can be upgraded with hydrogen sensors for full range, high resolution measurement, suited for hydrogen production, methanization as well as aerobic fermentation processes.

Visit our website at: www.uit-gmbh.de

Or contact us via info@uit-gmbh.de

A company of General Atomics Europa



OUR MISSION

IS TO FACILITATE THE TRANSITION TO A SUSTAINABLE ENERGY FUTURE



THEMATIC AREAS

Renewable Energy Technologies

- Solar energy
- Bioenergy & bioeconomy
- Wind energy
- Hydropower

Energy System Integration

- Energy storage and grid integration
- Energy efficiency
- Smart cities and networks
- Hybrid systems
- Sector coupling

Market Uptake

- Innovative financing
- Policy development
- Sustainability analysis
- International cooperation
- Training and capacity building



SERVICES

Project Management and Implementation

- Identification of project and funding opportunities
- Assembly of strong project consortia
- Preparation of effective grant applications
- Coordination and management of projects

Research and Consultancy

- Economic assessments
- Market research
- Policy analysis
- Life cycle assessments

Communication and Exploitation

- Communication campaigns
- Stakeholder workshops
- Exploitation strategies for R&I projects
- Organisation of Scientific Events
- Research Workshops
- Scientific Conferences

Contact

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Circular and Climate Neutral



Wageningen University & Research is working on solutions to make the circular, biobased economy a reality.

Come and visit our booth and learn more about research in Wageningen. We will show you what projects we do within the research program 'Towards a circular and climate-positive society'.

You will also get an overview of EU research projects with

Wageningen participation in the field of biobased economy and circularity.



Illustration: Natasha Sena

EU Projects



'We want our research to contribute to an environmentally friendly society in 2030, founded on closed-cycle biobased systems that are beneficial to humans, animals and the world. Translating research to practice, that is what drives me.'

Saskia Visser
programme manager 'Circular and climate-neutral society'

SUSTAINABLE VALUE CHAINS FOR LIGNOCELLULOSIC ADVANCED BIOFUELS



www.becoolproject.eu

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THE PROJECT

BIKE – Biofuels Production at low – ILUC Risk for European Sustainable Bioeconomy, is a Horizon 2020 Coordination and Support Action started on 1 September 2020, that will continue through 31 August 2023



COORDINATOR



PARTNERS



This project has received funding from the European Union's Horizon 2020 Research and Innovation Programme under grant agreement No. 744821.



This project has received funding from the European Union's Horizon 2020 Research and Innovation Programme under Grant Agreement No. 952872.



Bio4A

Advanced Sustainable Biofuels for Aviation

BIO4A is a Horizon 2020 project that will scale up the industrial production and the market uptake of sustainable aviation fuel, made from residual lipids. The project will enable the large-scale pre-commercial production of ASTM-certified sustainable aviation fuel in the EU.

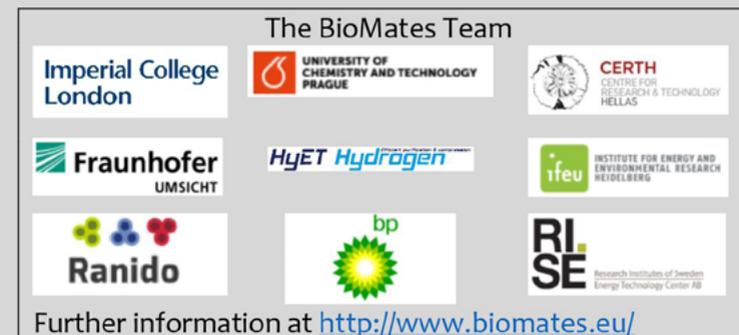
It will also investigate the alternative supply of sustainable feedstocks by recovering EU MED marginal land for drought resistant crop production.

The project will test the entire value chain and logistic at industrial scale and it will assess the environmental performance of the overall process.



BioMates combines novel technologies for the cost-effective conversion of biomass into bio-based intermediate products. The main processes are ablative fast pyrolysis (AFP) and single-stage mild catalytic hydro-processing (mild-HDT). These are complemented by further steps, including: fractional condensation, electrochemical hydrogen compression with state-of-the-art renewable hydrogen production, fine tuning of BioMates properties and optimal energy integration. Together, these processes will help ensure the quality, reliability, competitiveness, and efficiency of BioMates technology.

BioMates enables the conversion of residues and second-generation biomass (straw, miscanthus) into high-quality bio-based intermediates that can be co-processed with petroleum streams in conventional refineries to produce hybrid fuels ready to be used for road, air, and water transportation. BioMates technology will thus help improve fuel sustainability and reduce dependence on fossil fuels.



BioMates has received funding from the EU's Horizon 2020 Research and Innovation Programme (Grant Agreement No 727463)



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 789562.



Biofuels through Electrochemical transformation of intermediate BIO-liquids

 www.ebio-h2020.eu

 @EBIO_H2020  @EBIO H2020 Project  info@ebio-h2020.eu



This project has received funding from the European Union's Horizon 2020 Research and Innovation Programme under Grant Agreement No. 101006612.



RISING AWARENESS, DELIVERING SOLUTIONS



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 825179.



Sustainable Jet Fuel from Flexible Waste Biomass



NextGenRoadFuels is an **Horizon 2020** project to develop a competitive European technology platform for **sustainable drop-in transport fuel production** from low value urban feedstocks.

The project will prove the Hydrothermal Liquefaction pathway (HTL) as an efficient route to produce high-volume, cost-competitive, drop-in synthetic gasoline and diesel fuels, as well as other hydrocarbon compounds. The process consists of different combinations of thermo-catalytic, electro-catalytic and biochemical technologies, for a full scalable and flexible model.

NextGenRoadFuels partners



www.nextgenroadfuels.eu
info@nextgenroadfuels.eu



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 792216.



This project has received funding from the European Union's Horizon 2020 Research and Innovation Programme under Grant Agreement No. 818413

Quantifying
and Deploying
**Responsible
Negative Emissions**



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  @negemproject

COORDINATOR



PARTNERS



Imperial College
London



ETH zürich



etaflorence
renewable
energies



 university of
 groningen



stockholm
exergi



sappi

Clean biofuel production and phytoremediation solutions from contaminated lands worldwide

A global approach for recovery of arable land through improved phytoremediation coupled with advanced liquid biofuel production and climate friendly copper smelting process



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Creator of Solutions,
to Address Climate, Energy & Environmental Issues



Grenoble
GIANT Campus

WEBSITE : www.liten.cea.fr

Chambéry
INES Campus

CONTACT : info.liten@cea.fr

GLOBAL PRESENTATION

CEA-Liten is member of «Institut Carnot Énergies du Futur ». Based on CEA Grenoble and INES (Chambéry) centers, he is dedicated to the energy transition. Its activities focus on several key areas: solar energy, smart grid management, batteries and hydrogen with the view to improving energy efficiency and circular economy approach. CEA-Liten covers a wide range of applications in energy production and distribution, transportation, industrial processes, and environment markets.

STRATEGIC RESEARCH AXES



LOW-CARBON POWER GENERATION

Renewable Energy Production

- Utility Scale Production
- High added-value PV Solutions

MANAGEMENT OF ENERGY GRIDS

Components & Digital Tools for a « Smart Energy Grid » with Demand Management

Solutions for Flexibility

- Storage (thermal, electrochemical)
- Hydrogen Vector
- Sector Coupling



IMPROVE ENERGY EFFICIENCY

Material & Energy Efficiency

- Additive Manufacturing
- Structural Electronics

Reducing the Environmental Footprint

- Life-Cycle Analysis & Tech-Eco
- Recycling

Closing the Carbon Cycle



Mobilizing resources, enabling policies and investments for
COST-COMPETITIVE AND EFFICIENT RENEWABLE FUELS AND BIOENERGY IN EUROPE



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 884524

THE DEMONSTRATION OF WASTE BIOMASS TO SYNTHETIC FUELS AND GREEN HYDROGEN

2synfuel

www.tosynfuel.eu

 @TOSYNFUEL



This project has received funding from the European Union's Horizon 2020 research and innovation programme under Grant agreement No 745749.