

**24-27 June** Conference & Exhibition Marseille, France

# **Call for Papers**

#### Submission deadline extended to 24 November 2023

# **Biomass: answers for the green transition**

Dear Member of Biomass Community,

I am pleased to to invite you to the 32nd edition of the European Biomass Conference and Exhibition, EUBCE 2024, in Marseille, France, between 24th and 27th June 2014. The European Commission's Joint Research Centre continues to provide scientific support to this event and its scientific programme coordination.

Under the European Green Deal, renewable energy is a central pillar of the clean energy transition. The European Union is already a global leader on renewables when it comes to technology development and deployment. Toward the goal of achieving carbon neutrality by 2050, three important steps forward have been made recently through the adoption of the revised Renewable Energy Directive, the ReFuelEU Aviation Regulation and the FuelEU Maritime Regulation, putting EU on track to achieve the 2050 goals. With the adoption of these legal acts, the EU now has legally binding climate targets covering all key sectors of the economy.

As we phase out fossil fuels, biomass will also have a role to play in the decarbonisation of the economy. Solutions are available for biomass to produce energy, sustainable fuels and biobased materials and chemicals. Industry reports that several technologies have reached maturity and are ready to prove commercial viability. EUBCE will provide again the occasion to show now the best solutions that can contribute to our societal needs and address the major challenges.

The 2024 programme is structured in horizontal themes dealing with resources; sustainability, impacts and policies and biomass integration, as well as vertical themes addressing technologies for biomass conversion to bioenergy, sustainable biofuels; and biobased products and chemicals. EUBCE hosts a variety of Plenary, Oral, Visual Presentation Sessions and Parallel Events and Industry Sessions, designed to give a holistic overview on international developments from all dimensions. As usual, scientific work will receive recognition through the Linneborn Prize, as well as the excellence in biomass industrial deployment through Giuliano Grassi Prize and young scientists for exceptional work.

We aim to further increase the number of conference papers that may be put forward for publication in special issues of peer-reviewed journals. We continue with the agreements in place to facilitate publishing a selection of our best papers in special issues in Energy Sustainability, Biomass and Bioenergy and BioFPR-Biofuels, Bioproducts & Biorefining.

We encourage you all, working in the broad range of fields covered by our technical programme from all around the globe, to be part of this Conference and take advantage of this truly global setting in Marseille. Your work is absolutely important to help Europe and the world to achieve climate-neutrality in the long-term, while respecting the principles of environmental, social and economic sustainability in the widest sense.

Join us in Marseille at EUBCE 2024!



Nicolae Scarlat European Commission, Joint Research Centre, EUBCE Technical Programme Chair



# Welcome on Marseille Planet Earth

France is very pleased and honoured to be hosting the EUBCE 2024 and would like to welcome you to the radiant city of Marseille. In Europe and in France, bioenergy is the most widely used renewable energy. It makes a significant contribution to defossilising the energy mix. Although it is mainly used to produce heat and electricity, biomass has great potential for other applications such as biofuels, biogas and biomolecules.

European policies and those of a number of countries, including France, are showing that there is a great deal in the field of biomass, both for its uses and for its carbon storage properties: food, materials, molecules, energy and negative emissions.

Call it 'Biomass', 'Biomass and Waste' or 'Bioresources'! Whether it is lignocellulosic, agricultural, residues or waste, or whether it's dry or wet, it remains an energy and carbon resource with a strong potential for carbon neutrality.

At a time when a greater number of technologies have reached technological maturity and industrial and demonstration projects have demonstrated the feasibility of the processes, new questions are arising: political, regulatory and economic.

- How can we develop the best uses for biomass in sectors that need to be decarbonised, but are difficult or impossible to do so?
- How can we harmonise the approaches and interests of the various research, industrial and economic communities at European and national level?
- What legislation should be put in place to ensure that the increase in future uses will respect ecosystems and biodiversity and comply with LULUCF issues?

It's time to show clearly that biomass has its place in Europe's energy future, even if it's not enough to cover all needs.It's time to show that biomass can be advantageously combined with other decarbonised energy sources and vectors (electricity, heat, hydrogen). It's time to show that the circular carbon economy is a concept for the future, applicable to the uses of biomass, as it is to those of CO2.

Biomass is an important issue in France, just as it is at European level. It is an ambitious part of the National Low Carbon Strategy and the National Biomass Mobilisation Strategy. It is also the subject of a number of national programmes and public-private partnerships for the energy transition. The largescale deployment of bio-energy, while respecting the environment, is being stimulated by proactive policies. In short: biomaterials and bioenergy are here to stay and flourish.

The Marseille region is in a special position in this context. The major port of Marseille is a driving force

behind the economy, and is destined to become a circular region serving the energy sector. Sites such as Gardanne and La Mède are in a position to demonstrate the applications underway. The universities and research centres in the south of France are making a contribution in the technical and environmental fields, both on land and at sea. Finally, the connection with the Rhône valley takes us to Lyon via a natural, industrial and economic route.

In today's tense energy context, France wants to have a global vision of the scientific, technical, societal and environmental challenges, commercial opportunities and future markets. In particular, we hope that EUBCE 2024 will be an opportunity to show that carbon is still a friend, if it's used properly!

Therefore we look forward to sharing exciting developments in biomass and related topics with stakeholders from around the world. Let's learn from each other and inspire each other.

On behalf of all the French partners, from the south and from Marseille, I hope to see you in France from 24 July 2024.



**Guillaume Boissonnet** CEA/I-Tésé, Member of the EUBCE Executive Committee



# Will SAF fly and maritime biofuels sail? The time is ripe for investments in advanced biofuel facilities

#### Dear Biomass Stakeholder,

Since the EUBCE at Marseille key legislative actions have been adopted by the European Institutions in the Framework of Fit for 55 package.

In particular the **RefuelEU aviation** initiative rests the obligation on the aviation fuel suppliers to ensure that all fuel made available to aircraft operators at EU airports contains a minimum share of SAF from 2025 and, from 2030, a minimum share of synthetic fuels, with both shares increasing progressively until 2050. Fuel suppliers will have to incorporate 2% SAF in 2025, 6% in 2030 and 70% in 2050. From 2030, 1,2% of fuels must also be synthetic fuels, rising to 35% in 2050. The targets are very ambitious especially for 2025 which is just one year and a half away.

To achieve these targets, and other such as those of RED III, the onus is placed on the industry to deliver huge volumes of advanced biofuels and synthetic fuels in an unprecedented manner and speed. The size of the required investments entailed in such accelerated deployment is equally unheard of while at the same time investors are shy due to the everchanging legislative European landscape. Innovative value chains will have to be established to provide the biomass resources needed in a reliable manner.

During the 32nd EUBCE, the **Industry Track** will focus in particular in the above topics aiming to bring to the forefront the hurdles that the industry will have to address to deliver the required volumes and how these can be overcome in such a relative very short time.

If you wish to stay well informed on how the industry will respond to this extraordinary challenge, join us in Marseille where you can follow the Industry Track sessions and panel discussions and engage with senior representatives of the industry.

The EUBCE 2024 is the place to be!

Engage with your peers and showcase your own innovative technologies and stay abreast of the developments in the exploding deployment arena of advanced biofuels and synthetic fuels.



**Kyriakos Maniatis** PhD, EUBCE Industry Track Coordinator



# **Abstract Submission**

Authors wishing to contribute to the Conference Programme should submit the abstract latest by **24 November 2023.** 

#### Abstract format & content

- Language: English
- Length: Four A4 pages max. (main page + 3 explanatory pages). We recommend a minimum of 2 pages in total to ensure a comprehensive evaluation of your work. We encourage authors to provide enough information to be evaluated correctly.
- Structure:
- » Aim and approach used
- » Scientific innovation and relevance
- » Results or preliminary results and conclusions.
- Note: This structure provides the basis for the evaluation.
- Authors need to provide:
- » Applicable topic number and sub-topic number (e.g. 1.1) (see Annex 1 for the full list of 2024 conference topics and subtopics)
- » Full paper title
- » Full name, affiliation, address, e-mail and phone of one author for all correspondence
- » Full name, affiliation, phone/e-mail for all additional authors.

Note: Industry-oriented abstracts must include at least one co-author from the industry.

#### Using the online portal

1. Register for the online portal [https://ssl.conference-biomass.com] Note 1: The person registered in the User Area is automatically set as the primary author and contact person for the submission.

Note 2: Modifications to the submission in the online system are possible at any time until the submission deadline. Please avoid double submissions.

Specify the most relevant EUBCE 2024 conference topic and sub-topic. (see Annex 1 for the full list of 2024 conference topics).

Upload your abstract in PDF format. Note: Please make sure that your abstract.pdf is not password protected.

- 2. Receive an automatic email notification after successful submission. If you do not receive this email within 24 hours of submission, please write to papers@etaflorence.it.
- 3. If you would like to withdraw your abstract after the submission deadline, please contact papers@etaflorence.it.

#### **Evaluation criteria**

Each submission will be reviewed by 3 members of the EUBCE International Programme Committee, which is composed of a scientific-oriented and an industry-oriented subcommittee. The International Programme Committee is composed of +150 leading scientific and industry experts from the global biomass community, and under the coordination of Dr. Nicolae Scarlat, European Commission's Joint Research Centre's Directorate for Energy, Transport and Climate, with the support of the Members of the Executive Committee.

The main selection criteria are:

#### Content

- Relevance to the selected conference topic and subtopic specified
- Relevance for stakeholders active in biomass

Clarity of key messages & substance

#### Innovation

• Extent to which the key messages & content will advance the understanding, sustainability, applicability, and marketability of biomass.

#### Quality

- Scientific rigor
- Probability of an engaging conference presentation

Positively evaluated abstracts will be selected for a plenary, oral, or visual presentation.

- **Plenary and oral** presentations are reserved for contributions: (1) covering a wider scope, (2) with substance of interest to a broader audience, and (3) highlighting progress and novelties within that topic and subtopic. The plenary and oral presentations will be performed in person.
- **Visual** presentations are predominantly dedicated to submissions of interest to specialists in a particular field. The visual presentations will be performed in person during a moderated visual session.

For questions please contact: +39 055 5002174 papers@etaflorence.it

# **Publications**

#### Scopus

The world's largest abstract and citation database of peer-reviewed research literature.

#### Proceedings

All submitted contributions of plenary, oral and mini-oralwith-visual presentations will be published online on the EUBCE Proceedings website. Full papers will be indexed by SCOPUS. The conference proceedings reflect the latest science and technology for biomass & bioenergy. The proceedings have a full free access policy and are searchable online as soon as published.

#### Biomass & Bioenergy Special Issue of EUBCE

Impact Factor: 6 CiteScore: 10.8

Biomass and Bioenergy is an international journal publishing original research papers and short communications, review articles and case studies on biological resources, chemical and biological processes, and biomass products for new renewable sources of energy, food and materials.

The scope of the journal extends to the environmental, management and economic aspects of biomass and bioenergy.

Our publishing partnership, established in 2012, gives a

prestigious opportunity to the authors of abstracts submitted for EUBCE: each year a selected number of the highest scored abstracts is invited to be peer reviewed and published in a recurring special issue of Biomass & Bioenergy.

#### Energies

Impact Factor: 3.2 CiteScore: 5.5

A peer-reviewed open access journal of related scientific research, technology development, engineering, and the studies in policy and management and is published semi-monthly online by MDPI. Many presenters from previous editions of EUBCE have been featured in Energies.

#### Sustainability

Impact Factor: 3.9 CiteScore: 5.8

#### Sustainability is an

international, cross-disciplinary, scholarly, peer-reviewed and open access journal of environmental, cultural, economic, and social sustainability of human beings. It provides an advanced forum for studies related to sustainability and sustainable development, and is published semimonthly online by MDPI. The Canadian Urban Transit Research & Innovation Consortium (CUTRIC) and International Council for Research and Innovation in Building and Construction (CIB) are affiliated with Sustainability and their members receive discounts of the article processing charge.

# BIOFPR Impact Factor: 5.2

Biofuels, Bioproducts and Biorefining is a vital source of information on sustainable products, fuels and energy. Examining the spectrum of international scientific research and industrial development along the entire supply chain, The journal publishes a balanced mixture of peer-reviewed critical reviews, commentary, and policy updates. Biofuels, Bioproducts and Biorefining is dedicated to fostering growth in the biorenewables sector and serving its growing interdisciplinary community by providing a unique, systems-based insight into technologies in these fields as well as their industrial development.

# Full List of EUBCE 2024 Topics

Authors are invited to carefully read the topic descriptions and select the subtopic which most closely matches the key novelty of their work.

#### 1. Sustainable resources for decarbonising the economy

# 1.1 Biomass resources and potentials

- Assessments of biomass potentials and land availability at regional, national and international levels;
- Assessment of recoverable biomass potential;
- Biomass mobilisation and logistics;
- Spatial modelling and remote sensing;
- Resources mapping.

#### 1.2 Innovative biomass production for energy integrated into traditional agro-forestry systems

- Innovative agro-forestry systems including biomass production for energy and materials;
- Bioenergy production integrated into agriculture and forestry;
- Biomass plantations increasing sustainability and ecosystem services;

- Novel crops, multi-purpose crops, intercropping and alternative cropping systems;
- Low ILUC impact feedstocks;
- Crops from marginal and degraded lands;
- Soil quality and soil fertility improvement - compost, digestate, biochar;
- Phytoremediation solutions for contaminated lands.

### 1.3 Algae and aquatic biomass production systems

- Identification, assessment and optimisation of algae strains;
- Technologies and systems for algae cultivation, nutrition and harvesting;
- Integration of wastewater treatment into algae systems;
- Algae production systems, marine farming systems;
- Aquatic waste streams;
- Aquaculture and aquatic waste streams;
- Algae harvesting, drying, oil and chemical extraction.

#### 1.4 Agroforestry residues and by-products

- Supply of biomass and biomass by-products and residues from agriculture and forestry;
- Biomass mobilisation: characterisation, harvest technologies, logistics and storage;
- Resource efficient agriculture and

forestry;

- Agro-food waste;
- Agro-industrial feedstocks and side streams.

### 1.5 Municipal and industrial wastes

- Potential of Municipal Solid Waste (MSW) for bioenergy, biofuels and bioproducts;
- Availability of biowaste from MSW;
- Techniques for source separation;
- Industrial wastes;
- Downstream use of pulp and paper waste;
- Sewage sludge, slaughterhouse waste;
- Integrated waste management systems.

# 2. Sustainability, impacts and policies

#### 2.1 Sustainability, socio-economic impacts and public acceptance

- Sustainability aspects of biomass production and use;
- Sustainability schemes, sustainability standards and products certification;
- Socio-economic aspects, benefits and socio-economic opportunities;
- Competition and risk mitigation of the increased use of biomass;
- Bioenergy, food security and local, traditional use of biomass;
- Actions for sustainable economic growth;

- Bioenergy contribution to the Sustainable Development Goals (SDG);
- Improving citizen awareness and acceptance;
- Promoting good practices for bioenergy.

#### 2.2 Environmental impacts

- Biomass and land use, agricultural intensification, water and air emissions from biomass production and conversion;
- Biomass production preserving biodiversity and ecosystem services;
- Land use change impacts, monitoring and addressing indirect land use changes;
- Land use and land governance;
- Biomass production and water use, energy, land and water interactions;
- Trade-offs between different impacts;
- Environmental Life Cycle Assessments.

# 2.3 Climate impacts and GHG performance

- Climate impacts of biomass, biofuels, bioenergy and bio-based products production;
- Assessment of climate change mitigation potential;
- GHG emissions, LULUCF and sustainable forest management;
- Assessing direct and indirect land use change impacts;
- Carbon storage on land and materials;
- Innovative carbon utilisation options;
- Assessing GHG of biomass pathways;
- GHG Life Cycle Assessment.

#### 2.4 Biomass strategies and policies

- Policies for the sustainable and circular economy;
- Agriculture, forestry and rural development;
- Bioenergy policies and targets for 2030 and beyond;
- Bioenergy and bio-based products contribution to a low carbon economy; LULUCF emissions and Emissions Trading Scheme;
- The role of bio-based products for the 2030 and 2050 targets;
- Biomass and rural development, opportunities in the sustainable and circular economy;
- International cooperation for a bioeconomy;
- Strategies for the integration of bioenergy into a low –carbon economy;
- Strategies for the integration of biobased products into the chemical industry.

#### 3. Biomass, bio-based products and bioenergy integration

#### 3.1 Biomass integration into energy systems

- Innovative solutions for small communities, integrating bioenergy and other renewables;
- Integrated bioenergy RES hybrid systems and technologies;
- Bioenergy for electricity grid stability and gas grid balancing concepts;

- Bioenergy in renewable energy communities and buildings;
- Bioenergy solutions for rural electrification concepts and off-grid systems;
- Biomass in district heating and cooling, poly-generation energy networks;
- Greening the gas grids (biomethane, hydrogen etc.).

#### 3.2 Biomass use in biorefineries

- Biorefinery platforms for bio-based products, energy and fuels;
- Integrated and innovative biorefineries concepts;
- Process design and business development;
- Integration of biochemical and thermochemical processes into biorefineries;
- Biochemical and thermochemical conversion processes of biomass to fuels, energy, bio-based products;
- Multi-purpose and versatile schemes;
- Renewable energy utilisation;
- Assessment tools for biorefineries.

#### 3.3 Resource efficient bioeconomy

- Approaches for efficient management of natural resources (land and water);
- Promoting resource efficient value chains;
- Sustainable circular economy and cascading use of biomass;
- Competition and risks of the increased use of biomass;
- Opportunities of biomass use for food, feed, fuels, bio-based products;
- Innovation, growth and job creation;
- Exploiting the value of co-products;

• Cross-sectorial synergies to avoid over-exploitation.

# 3.4 Market implementation, investments & financing

- Initiatives and policies for market uptake;
- Initiatives for decarbonisation of the economy;
- Scale-up and market implementation of new technologies;
- Support schemes for bio-based economy;
- Economics and financing of bioenergy projects;
- Economics and financing of biobased projects;
- Risk assessment of financing;
- Global bioenergy and bio-based products markets;
- Biomass trade, contracting and logistics;
- Innovative business models.

#### 4. Biomass conversion for bioenergy

#### 4.1 Biomass pre-treatment and production of intermediates

- Biomass pretreatment and densification;
- Physical, chemical, physico-chemical and biological methods for biomass pretreatment;
- Process development and optimisation;
- Characterisation and utilisation of

solid fuels and intermediates;

Logistics, storage and distribution.

# 4.2 Advanced biomass combustion

- Innovative concepts for small scale and medium scale combustion;
- Advanced and innovative small scale and medium scale systems;
- Large scale advanced combustion systems;
- Process modelling and monitoring;
- Advanced process and emission control systems;
- Tri-generation (power, heat and cooling);
- Innovative concepts and thermodynamic cycles;
- High efficiency, increased steam parameters plants;
- Bioenergy and Carbon Capture and Storage (BECCS) enabling negative GHG emissions.

# 4.3 Gasification for power, CHP and polygeneration

- Fundamental studies;
- Technology development;
- Process modelling and monitoring;
- Gas cleaning and upgrading;
- Syngas utilisation in engines, turbines and fuel cells;
- Advanced process control systems;
- By-products utilisation.

#### 4.4 Gasification for synthesis gas production

- Fundamental studies;
- Technology development;
- Advanced gasification systems;

- Gas cleaning, reforming and upgrading for BTL and SNG applications;
- Bio-Synthetic Natural Gas (Bio-SNG);
- Process control systems;
- By-products utilisation.

#### 4.5 Anaerobic digestion for biogas and biomethane production

- Anaerobic digestion process Anaerobic digestion process improvement;
- Advanced plant and fermenter concepts;
- Optimising conversion, improving design and process integration;
- Dry fermentation and thermophilic processes;
- Anaerobic digestion of innovative feedstocks (straw, waste, algae, etc.);
- Biogas utilisation for power, CHP and poly-generation;
- Biogas upgrading to biomethane;

#### 5. Biomass conversion to intermediate bioenergy carriers and sustainable biofuels

#### 5.1 Pyrolysis

- Production of liquid bioenergy carriers from solid biomass;
- Fundamental studies;
- Technology advances;
- Process modelling, improvement and optimisation;
- Bio-oil purification, upgrading and utilisation (combustion, chemical extraction, gasification, etc.);

- By-product utilisation;
- Wastewater treatment;
- Energy balance and techno-economic analysis.

#### 5.2 Hydrothermal processing

- Advances in hydrothermal liquefaction, gasification and hydrothermal carbonisation;
- Process fundamentals and studies;
- Technology and process improvement;
- Biocrude production, purification, upgrading;
- Value-added compounds extraction;
- Energy balance and techno-economic analysis.

#### 5.3 Biofuels and renewable hydrocarbon biofuels

- Biochemical routes for alcohols, pretreatment of lignocellulosic biomass, enzymatic hydrolysis and novel C6 and C5 fermentation techniques into alcohols;
- Oil-based fuels and renewable hydrocarbon biofuels from lipids and lignocellulosic biomass;
- Biofuels production from algae, technology advances;
- Bioprocesses for microbial oils production;
- Co-processing biomass feedstock with fossil fuels in common processes;
- Technology and process improvements;
- Downstream wastewater treatment;
- Energy balance and techno-economic analysis.

#### 5.4 Synthetic fuels from biomass and hydrogen

- Innovative processes for synthetic fuels production from lignocellulosic biomass (biomass based electrofuels);
- Technological innovations of Powerto-gas, Power-to-liquids, etc.;
- Renewable fuels of non-biological origin (RFNBO), Recycled Carbon Fuels (RCF);
- Hydrogen production pathways: thermochemical, electrolytic, photolytic, biological processes;
- Hydrogen for stationary and mobile applications;
- Alternative fuels and hydrogen logistics and infrastructure;
- Techno-economic assessments.

#### 6. Biomass conversion to bio-based products and chemicals

# 6.1 Processes for bio-based chemicals and materials

- Advances in renewable chemicals;
- Production of high-added value organic compounds;
- New products from biomass: biobased chemicals and polymers, bio-catalysts, additives, bioplastics, biomaterials, etc.;
- Production of organic fertilizers, biochar, plant biostimulants and compost;
- Nutrients cycles and recovery

(nitrogen, phosphorus, potassium);

- Assessing most promising value chains, processes and concepts;
- Perspectives for bio-based chemicals and materials and contribution to the climate neutrality goals.

#### 6.2 Biorefinery platforms for biobased chemicals and polymers

- Fuels and chemical building blocks from synthesis gas;
- Production of value added chemicals and macromolecules from lignin;
- Production of fine chemicals from sugar and oil platforms;
- Process development, maximising conversion efficiency;
- Technical and biological barriers and economic considerations.

## 6.3 Co-production of biofuels and biochemicals

- Combined production of fuels, chemicals and materials from biomass;
- Innovative processes integrating fuel production into bio-based refineries;
- Process integration;
- Co-production options and economics;
- Technical and economic assessments.

# Industry topics

#### 7.1 Sustainable biomass production and carbon management for industrial applications

 Examples at commercial or demonstration scale on the sustainable biomass production with attention to carbon management systems. Abstracts may address cover crops, alternative crops such as short rotation coppice and miscanthus, abandoned or degraded lands, soil carbon content, etc. The necessary link between agricultural/forestry sectors and bioenergy/biofuels for large scale development should be addressed.

#### 7.2 Biomethane production

 Industrial scale applications for the production of biomethane from biomass residues, dedicated crops and waste streams for transport applications or injection in the natural gas grid. Industrial scale biogas upgrading or anaerobic digestion process optimization for biomethane rich biogas production and upgrade should be mentioned.

#### 7.3 Advanced biofuels

• Novel conversion technologies to produce advanced biofuels are



needed to address the scarcity of commercially available biofuels for various applications such as heavyduty transport, maritime and inland waterways etc. Abstracts should address the innovative production technologies integrated in the value scale chain at industrial scale, flexible production concepts to serve many transport sectors from the industrial production at one industrial site, as well as any policy related issues in meeting the EU's Fit for 55 targets.

#### 7.4 Advanced biofuels – Aviation

• Abstracts should address the largescale production of sustainable aviation fuels providing information on the complete value chain and analyse the landscape of current and upcoming biojet fuel production in the EU and worldwide. The authors should also address policy issues and market barriers for widespread deployment.

#### 7.5 Coprocessing biomass intermediates in refineries

 Significant advances have been made recently in coprocessing various biomass intermediates such as pyrolysis oils in petroleum refineries providing for reduced cost in producing biofuels. Abstracts should describe the complete value chain with emphasis on the technical aspects of coprocessing, the potential to increase the share of biomass in the co-feeding process and the ways to monitor and record the organic carbon in the resulting products throughout the process.

#### 7.6 Innovative production of bioproducts and biochemicals

 Abstracts should address the production of sustainable bioproducts and biochemicals from various biomass sources such as dedicated crops, residues and algae. Emphasis should be given to the complete value chain as well as the market deployment and the potential in terms of future demand for such products should be addressed.



#### **Supporters**

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Institutional industry cooperation



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