

BIOKET 27

STRASBOURG 

Get ready to take your **bio-based endeavors** to new heights

CALL FOR PAPERS

Submission Deadline: October 31st, 2026

9-11 | MARCH | 2027

Strasbourg, France 

Organized by:
 **BIOECONOMY
FOR CHANGE**

In partnership with:

 **EFIB**
by EuropaBio

With the support of:

 **La Région
Grand Est**

About Us

BIOKET27
STRASBOURG 






BIOKET is the leading international conference dedicated to Key Enabling Technologies and innovations applied to biomass valorization and the circular bioeconomy. As a premier annual meeting point, it brings together the entire innovation and value chain—from feedstock owners, technology providers and biorefineries to chemical, materials, food, feed, cosmetics, healthcare and bioenergy industries, as well as engineering companies, scale-up facilities, investors and policymakers.

The event fosters collaboration, knowledge exchange and business opportunities to accelerate the development, scale-up and commercialization of high-value bio-based products. Through a unique combination of technical content, networking and innovation showcases, BIOKET promotes the adoption of sustainable and cutting-edge technologies that contribute to the transition toward a more competitive, circular and resource-efficient bioeconomy.



Facts and Figures | From BIOKET 2022 to BIOKET 2026

Today, BIOKET delivers value through a combination of:

-  High-level conferences and exhibitions
-  Masterclasses and executive training programs
-  International learning expeditions
-  Business intelligence and market insights
-  Strategic matchmaking and partnerships

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Key Highlights | A unique experience designed for impact

- **Keynote Sessions:** Strategic insights from global leaders shaping the future of the bioeconomy.
- **Technical Sessions (KETs):** Deep dives into breakthrough technologies, from lab to industrial scale.
- **Workshops:** Practical, hands-on sessions led by industry experts.
- **Startup Program:** Startup Village, Pitch Sessions, and dedicated workshops connecting innovators with investors and industry leaders.
- **Exhibition Area:** A curated space to showcase technologies, solutions, and services.
- **B2B Meetings:** Structured networking to foster partnerships and business opportunities.
- **Innovation Tours:** Exclusive visits to leading industrial and innovation sites.

Why Attend **BIOKET 2027**



Inspiring Talks



Innovation Tours



Global Networking



B2B Meetings



High-level Audience



Unique Experience

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About Us



BIOKET is dedicated to advancing bio-based solutions and processes, addressing the technological, economic, and environmental challenges of the Bioeconomy. The organization focuses on process innovations for biomass conversion, leveraging emerging technologies to minimize waste production and optimize overall operational expenditures (OPEX).

Key Areas of Focus

Process Innovations: Developing and implementing new technologies for efficient biomass conversion.

Waste Minimization: Reducing waste production through innovative processes.

Economic Optimization: Enhancing the economic viability of bio-based solutions by optimizing OPEX.

Key Enabling Technologies (KETs)

KETs are crucial in driving innovation across the circular bioeconomy, promoting industry leadership in value chains such as:

FOOD & FEED

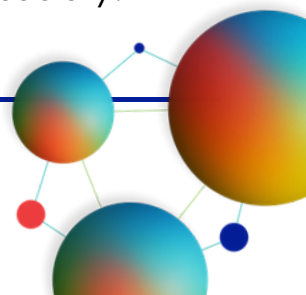
BIOENERGIES

BIOCHEMICALS

BIOMATERIALS

These technologies support the convergence and integration across industries, with the potential to significantly improve health and safety, as well as mitigate climate change impacts.

BIOKET's commitment to KETs fosters a circular bioeconomy, enhancing sustainability and resilience in various sectors, ultimately contributing to a healthier planet and society.



General Rules CALL FOR PAPERS

BIOKET 2027 invites technology developers, industrial end-users, RTOs, research centres, start-ups, scale-ups, CDMOs, equipment manufacturers, engineering companies, investors and public innovation actors to submit applied contributions that demonstrate how biomass, biogenic carbon and biological systems can be converted into high-value products, industrial processes and resilient value chains.

At a time when Europe is accelerating the deployment of biotechnology, biomanufacturing, circular carbon solutions and sustainable materials, BIOKET 2027 will focus on the technologies that move the bioeconomy from pilot to plant, from molecule to market, and from promise to measurable impact.

We are looking for contributions that show not only what is scientifically possible, but what is technically, economically, environmentally and industrially credible.

Why submit to BIOKET 2027?

BIOKET 2027 will give selected speakers the opportunity to:

- present validated technologies to a high-level international audience;
- meet future industrial, scientific, financial and commercial partners;
- benchmark their solutions against emerging market and regulatory expectations;
- showcase pilot, demonstration or first industrial results;
- contribute to Europe's transition toward competitive, circular and low-carbon industries.

The 2027 edition will put particular emphasis on **applied research, industrialization, scale-up, performance data, sustainability-by-design and market readiness.**



General Rules CALL FOR PAPERS

Scope of the Call

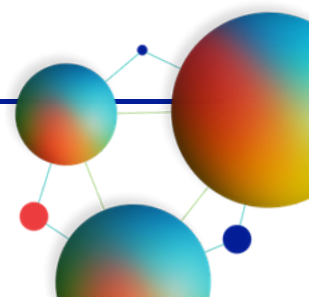
BIOKET addresses applied research and innovation, not fundamental research.

Submissions should normally address technologies at TRL 4 to TRL 8/9. Exceptionally, TRL 3 contributions may be considered when the technology is genuinely disruptive and supported by a clear industrialization pathway, credible proof-of-concept data and a realistic route toward scale-up.

Submissions must be connected to at least one of the following:

- biomass conversion, fractionation or valorization;
- biogenic carbon, renewable carbon or bio-based value chains;
- industrial biotechnology or biomanufacturing;
- bio-based chemicals, materials, ingredients, fuels or products;
- circular, low-carbon or regenerative industrial processes;
- enabling technologies that improve the performance, scalability, safety or sustainability of bio-based production.

Submissions should **not** be purely academic, fundamental or descriptive. They should also not be company sales pitches, product catalogues or general corporate presentations.



General Rules CALL FOR PAPERS

1. Submission Guidelines

- **Format:** Submissions must be made via form [[LINK TO FORM](#)]
- **Length:** Abstracts should be a maximum of 500 words, excluding tables, figures, equations, and references.
- **Language:** Submissions should be in English.
- **Content:** Papers must be original and/or unpublished work
- **Structure:** Abstracts should include the presentation title, company's name, speaker's name and job title, short biography of the speaker (150 characters without spaces), and can include a process concept figure, TRL, pilot or demonstrator pictures, and a comparative table positioning the technology against existing ones.

When submitting your abstract, you must indicate whether you wish to make an oral presentation or a poster presentation. Papers accepted for oral presentation will be given 15 minutes presentation time.

By submitting a paper, you agree to make yourself available for a presentation anytime during the conference from March 9 to 11, 2027 in Strasbourg, France.

2. Submission Process

- **Online Portal:** Submit through the designated online submission system via [[LINK TO FORM](#)]
- **Deadline:** **Submit by October 31, 2026 Midnight CET. Late submissions will not be accepted.**
- **Contact Information:** Provide accurate contact details, including email, the presentation title, company's name, speaker's name and job title, short biography of the speaker (150 characters without spaces).



General Rules CALL FOR PAPERS

3. Review Process

The BIOKET Advisory Board and Programming Committee will review submissions according to the following criteria:

- relevance to BIOKET's scope: biomass, biogenic carbon, biotechnology, bio-based products, biomanufacturing or enabling technologies;
- applied nature of the work and TRL maturity;
- originality and industrial relevance;
- quality and credibility of technical data;
- evidence of scale-up potential;
- sustainability and circularity performance;
- techno-economic credibility;
- clarity of the industrial or market application;
- contribution to European and international bioeconomy deployment;
- absence of purely commercial or corporate promotional content.

Submissions that are mainly fundamental research, literature reviews, corporate presentations, service catalogues or product sales pitches will not be prioritized.



General Rules CALL FOR PAPERS

4. Main topics for BIOKET 2027

4.1 Securing, diversifying and valorizing biomass and biogenic carbon feedstocks

BIOKET 2027 welcomes contributions that address the challenge of accessing sustainable, traceable and economically viable biomass resources.

Topics may include agricultural residues, forestry residues, side streams from food, wine, starch, sugar, oilseed or pulp industries, urban biowaste, lignocellulosic biomass, algae, marine biomass, microbial biomass, organic waste, gaseous feedstocks, syngas, methane and biogenic CO₂.

Priority will be given to approaches that demonstrate feedstock flexibility, resilience to variability, contamination management, logistics optimization, traceability, cascading use and integration with regional value chains.

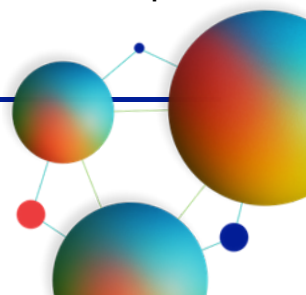
Examples of expected contributions: biomass mapping and qualification tools, flexible feedstock platforms, valorization of difficult or underused residues, hybrid biomass/CO₂ value chains, regional biorefinery feedstock models, and quality-control methods for variable biomass streams.

4.2 Pretreatment, fractionation and integrated biorefineries

BIOKET has historically addressed biomass pretreatment and fractionation, but 2027 should push this theme toward **industrial integration and performance**.

Relevant topics include mechanical, physical, chemical, enzymatic, thermochemical and hybrid pretreatments; lignocellulosic fractionation; lignin, cellulose and hemicellulose valorization; solvent systems; extraction of non-cellulosic carbohydrate fractions; biomass densification; cascading biorefineries; retrofit of existing industrial plants; and integration of biorefineries into agro-industrial, forestry, chemical or municipal infrastructures.

Special attention should be given to low-water, low-energy, low-waste and cost-competitive processes.



General Rules CALL FOR PAPERS

4.3 Industrial biotechnology and next-generation biomanufacturing

The 2027 edition should strongly highlight biomanufacturing technologies that are ready to move beyond the lab.

Topics may include precision fermentation, gas fermentation, mixed-culture fermentation, solid-state fermentation, plant cell culture, hairy root systems, fungal and mycelium platforms, microalgae production, microbial proteins, enzyme-based production, robust host development, strain engineering, adaptive laboratory evolution, and feedstock-flexible microbial platforms.

Contributions are encouraged on contamination-resilient processes, media optimization, low-cost substrates, continuous fermentation, scale-up of non-conventional organisms, food-grade and GMP-compatible biomanufacturing, and industrial lessons learned from pilot or demonstration campaigns.

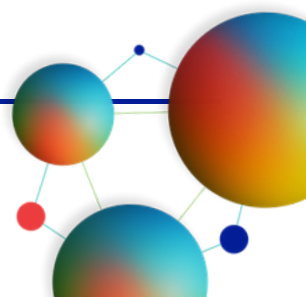
This theme is well aligned with the European Commission's identification of biotechnology and biomanufacturing as strategically important areas, while also recognising current barriers around technology transfer, regulation, finance, skills and value chains.

4.4 AI, automation, digital twins and real-time process control

BIOKET 2027 should clearly call for contributions at the interface of biotechnology, data and industrial process control.

Topics may include process analytical technologies, online sensors, spectroscopy, soft sensors, digital twins, model-based control, autonomous fermentation, self-driving labs, high-throughput screening, robotics, AI-assisted strain design, AI-assisted enzyme engineering, GenAI for genome-to-process development, predictive maintenance, cyber-physical pilot plants, data interoperability and secure data spaces for biomanufacturing.

Submissions should show how digital tools improve productivity, reproducibility, scale-up, quality, energy use, resource efficiency or decision-making.



General Rules CALL FOR PAPERS

4.5 Biocatalysis, catalysis and hybrid conversion routes

BIOKET 2027 should continue to address the convergence of chemistry and biology, with emphasis on deployable catalytic systems.

Topics may include enzyme discovery and engineering, immobilized enzymes, cofactor recycling, whole-cell biocatalysis, chemo-enzymatic cascades, hybrid catalysis, electrocatalysis, electrofermentation, photobiocatalysis, green solvents, reactive extraction, process intensification, and catalytic conversion of sugars, lignin, oils, proteins or other biomass-derived intermediates.

Priority should be given to examples with productivity, selectivity, catalyst lifetime, downstream compatibility and industrial cost data.

4.6 Smarter downstream processing, separation and purification

Downstream processing remains one of the biggest cost and scale-up bottlenecks in industrial biotechnology and biomass valorization.

BIOKET 2027 should welcome contributions on membranes, chromatography, electrodialysis, adsorption, crystallization, centrifugation, filtration, distillation alternatives, solvent recovery, integrated upstream/downstream processes, in-line purification, continuous downstream processing, low-energy separation, water reuse and purification from complex matrices.

Contributions should ideally include performance data such as yield, purity, throughput, energy consumption, solvent use, water use, consumables lifetime, OPEX reduction or integration into existing plants.



General Rules CALL FOR PAPERS

4.7 Bio-based chemicals, building blocks and performance materials

The 2027 call should strongly target the transition from promising molecules to scalable applications.

Topics may include HMF, FDCA, furanics, organic acids, alcohols, esters, aromatics, biosurfactants, solvents, biolubricants, monomers, oligomers, resins, coatings, adhesives, elastomers, rubbers, foams, fibres, textiles, packaging materials, composites and construction materials.

BIOKET 2027 should particularly encourage technologies that address high-performance applications, drop-in or smart drop-in molecules, circular-by-design materials, recyclable and biodegradable polymers, microplastic alternatives, PFAS alternatives, bio-based textiles and fibre-based packaging. These topics are in line with CBE JU's recent funding priorities, including bio-based platform chemicals, fibre-based packaging, SSbD textiles and polymers, forest biomass, alternative biomanufacturing routes for rubber, and biodegradable delivery systems.

4.8 Food, feed, nutrition and functional ingredients

BIOKET 2027 should continue to attract contributions on sustainable food and feed technologies, with a stronger emphasis on scalability, affordability, safety and consumer relevance.

Topics may include alternative proteins from microbes, fungi, mycelium, algae, insects or plant side streams; fermentation-derived ingredients; functional fibres; nutraceuticals; flavours and fragrances; vitamins; lipids; prebiotics; postbiotics; amino acids; food-grade cell biomass; valorization of food-processing co-products; and technologies that improve taste, texture, nutrition and digestibility.

Submissions should address scale-up, cost, regulatory pathway, food safety, sensory performance, downstream processing and market integration.



General Rules CALL FOR PAPERS

4.9 Cosmetics, detergents, personal care, healthcare and pharma ingredients

BIOKET 2027 should further develop the high-value ingredient track, as this is one of the most attractive routes to market for bio-based processes.

Topics may include bioactives, natural compounds, biosurfactants, amino acid derivatives, biopolymers, fragrances, flavours, pigments, antioxidants, antimicrobial ingredients, cosmetic actives, healthcare ingredients, pharmaceutical intermediates and bio-based excipients.

Contributions are encouraged on sustainable extraction, fermentation, biotransformation, plant cell culture, hairy root systems, synthetic biology, purification, green solvents, regulatory readiness, quality control, and replacement of hazardous or fossil-based ingredients.

4.10 Bioenergy and renewable fuels for hard-to-abate sectors

BIOKET 2027 should keep bioenergy in scope, but position it where biomass has the greatest strategic value: hard-to-abate sectors and integrated biorefineries.

Topics may include sustainable aviation fuels, maritime fuels, alcohol-to-jet, gasification/Fischer-Tropsch, HVO, renewable diesel, pyrolysis oils, hydrothermal liquefaction, biogas, renewable natural gas, biohydrogen, e-fuels using biogenic CO₂, and co-production of fuels with chemicals, materials, proteins or fertilizers.

Priority should be given to pathways that diversify feedstocks, reduce carbon intensity, improve economics and integrate high-value co-products. This is particularly relevant because current biofuel and SAF deployment still faces feedstock, margin and scale-up challenges, according to recent IEA analysis.



General Rules CALL FOR PAPERS

4.11 Circular carbon, biogenic CO₂ and carbon removals

BIOKET 2027 should add a stronger carbon management track, especially around **biogenic CO₂, carbon utilization and verified carbon storage in bio-based products**.

Topics may include biogenic CO₂ capture and utilization, gas fermentation, CO₂-to-chemicals, CO₂-to-proteins, CO₂-to-fuels, biochar, BioCCS, bio-based construction products storing carbon, carbon accounting, MRV systems, certification, and integration of CCU/CDR with biorefineries.

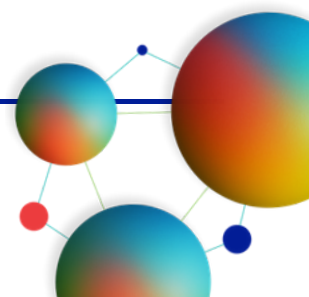
This is timely because the EU is building an industrial carbon management framework and a CO₂ market, and the Carbon Removal Certification Framework now creates EU-wide rules for permanent carbon removals, carbon farming and carbon storage in products.

4.12 Sustainability, Safe and Sustainable by Design, techno-economics and market readiness

BIOKET 2027 should make sustainability assessment a cross-cutting requirement rather than a separate academic exercise.

Topics may include LCA, prospective LCA, LCC, TEA, LCSA, social LCA, circularity indicators, Safe and Sustainable by Design, sustainability-by-design, eco-design, water footprint, land-use impacts, biodiversity impacts, carbon accounting, regulatory readiness, standards, certification, supply-chain traceability, offtake strategies, investment readiness and public acceptance.

The revised EU Safe and Sustainable by Design framework makes this particularly relevant for chemicals and materials innovation, especially for value chains such as packaging, textiles, construction, automotive, energy, electronics and pharmaceuticals.



General Rules CALL FOR PAPERS

Cross-cutting topics especially encouraged for 2027

BIOKET 2027 will give particular visibility to contributions that address one or more of the following cross-cutting challenges:

- **Scale-up reality:** Lessons learned from moving from lab to pilot, pilot to demo, or demo to first-of-a-kind industrial deployment and de-risking stories are strongly encouraged.
- **Industrial retrofitting:** using existing chemical, food, agro-industrial, fermentation or energy assets for bio-based production.
- **Regional and cross-border industrial symbiosis:** especially relevant to Strasbourg, the Rhine area, Grand Est, Baden-Württemberg, Switzerland, Belgium and wider European value chains.
- **Feedstock flexibility:** technologies able to handle variable, mixed or contaminated biomass streams.
- **Energy and water efficiency:** processes that reduce heat, water, solvent, electricity or consumables demand.
- **Regulation-by-design:** building regulatory, safety and market requirements into the technology development pathway from the beginning.
- **Business and offtake readiness:** evidence that a technology has a route to market, not only a technical proof of concept.
- **Strategic autonomy:** bio-based routes to molecules, materials, ingredients and inputs currently dependent on fossil or imported supply chains.
- **Skills and talent:** training, digital tools, pilot facilities and knowledge-transfer models that help Europe industrialize the bioeconomy faster.



General Rules CALL FOR PAPERS

5. Acceptance

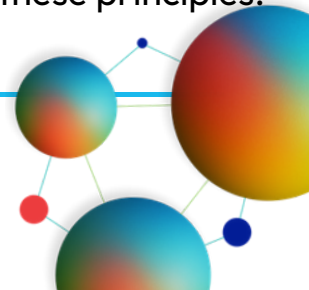
- **Notification:** Authors will be notified of acceptance, rejection, or need for revisions by January, 2027.
- **Presentation:** Accepted papers must have at least one author available for presentation anytime during the conference from March 9 to 11, 2027 in Strasbourg, France.

6. Presentation Requirements

- **Time Allotment:** Accepted oral presentations will be allocated 15 minutes, followed by questions according to the final program structure.
- **Format:** Presentations may be delivered in PPT or PDF format.
- **Language:** Presentations should be in English.
- **Availability:** At least one author of each accepted contribution must register for the conference and attend BIOKET 2027 in person.

7. Ethical Considerations

- Submissions must be original and free from plagiarism.
- Authors must disclose any potential conflict of interest.
- Authors are responsible for ensuring they have the necessary rights and permissions for all submitted content.
- By submitting a contribution, authors authorize BIOKET to use the title, speaker name, company affiliation, abstract and presentation summary in conference communication materials.
- By presenting at BIOKET 2027, authors authorize BIOKET to share a PDF version of their presentation with registered participants after the event, unless otherwise agreed with the organizers.
- BIOKET reserves the right to reject submissions that do not comply with these principles.



General Rules CALL FOR PAPERS

8. Conference Registration

- **Fees:** Authors of accepted papers must register for the conference and pay the applicable fees. **In case your paper is accepted for oral presentation, the registration fee is 600 EUR VAT excl. (includes full access to the 3 days, gala dinner not included). In case the paper is accepted for poster presentation, the registration fee is 800 EUR VAT excl. (includes full access to the 3 days, gala dinner not included)**
- Discounts: Check for any additional discounts or special rates at bioket.tech

9. Authorization

- **Presentation Sharing:** By submitting a paper, authors authorize BIOKET to share their presentation in a PDF version with all conference participants after the event.
- **Use of Voice and Image:** Authors also authorize the use of their voice and image during the conference for promotional and educational purposes.

10. Additional Information

- **Special Sessions:** Authors can submit a full session (i.e., 4 speakers on the same topic). Ensure the session is international, with at least 2 different countries represented and a maximum of 2 speakers from the same country.
- **Equipment:** Inform organizers of any special equipment needs for the presentation.
- **Networking:** Take advantage of networking opportunities and events.

Following these rules will ensure a smooth submission process and enhance the chances of acceptance for your paper at BIOKET 2027. Always refer to the specific call for papers for detailed instructions and requirements.

General Rules CALL FOR PAPERS

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