

Monitoring the Bioeconomy

Performance, implications and the
further development of analytical tools

3 - 4 December 2024, Berlin

***Findings from:**

- Consolidation of systemic monitoring and modelling of the German bioeconomy (SYMObIO 2.0) (symobio.de)
- Establishment of systematic monitoring of the bioeconomy - consolidation phase (MoBi II) (thuenen.de)

Location

Palisa.de - Conference and event center
Palisadenstr. 48
10243 Berlin

Aims

Building on the results of two research projects* the conference addresses the state and progress of the German bioeconomy, the capacities of monitoring from a systemic perspective and the implications for policy makers aiming to steer the bioeconomy in a sustainable direction. It is intended to promote the exchange of knowledge at the national and the international level.

Contact and further information

Hanna Helander, Conference organization, Center for Environmental Systems Research (CESR), Universität Kassel, hanna.helander@uni-kassel.de

Meghan Beck-O'Brien, SYMOBIO Project Coordinator, Center for Environmental Systems Research (CESR), Universität Kassel, meghan.beck-obrien@uni-kassel.de

Program

Day 1

13:30 **Registration**

14:00 **Opening**

- Welcome, conference aims and organization (Moderator Stefan Bringezu)
- Welcome by Christina de Wit, German Federal Ministry of Education and Research (BMBF)
- Welcome by Andreas Täuber, German Federal Ministry of Food and Agriculture (BMEL)

14:15 **From tools to indicators: Gaps, needs and achievements for bioeconomy monitoring**

- **Launch of the Bioeconomy Monitoring Report** (20 min. presentation, 10 min. questions), Meghan Beck-O'Brien
- **Keynote: Prerequisites for a Sustainable Bioeconomy** (20 min. presentation, 10 min. questions), Felix zu Löwenstein
- **Keynote: EU's monitoring of the bioeconomy in a dynamic context** (20 min. presentation, 10 min. questions), Robert M'Barek

15:45 Break

16:15 **Socio-economic relevance**

- Economic performance of Germany's bioeconomy: Gross value added and employment (Susanne Iost and Jörg Schweinle, TI) (11 min. presentation, 6 min. questions)
- Biomass for Energy and Material purposes in Germany (René Backes, DBFZ) (11 min. presentation, 6 min. questions)
- Diets in Germany and abroad (Hanna Helander, CESR) (11 min. presentation, 6 min. questions)
- **Expectations by conference participants - survey with Mentimeter.** What do participants expect the monitoring system to provide? (15 minutes)
- The bioeconomy transformation: Stakeholder perceptions on the reality, vision and risks of change (Walther Zeug, UFZ) (11 min. presentation, 6 min. questions)
- Innovations in the Bioeconomy: State, potentials and monitoring challenges (Sven Wydra, ISI) (11 min. presentation, 6 min. questions)

18:00 **End of the first day**

18:30 Dinner (pre-registration only)

Day 2

08:30 **Biomass flows and uses**

- Total biomass flows (Martin Banse, TI) (11 min. presentation, 6 min. questions)
- Agricultural biomass (Martin Banse, TI) (11 min. presentation, 6 min. questions)
- Forestry biomass, tracing wood flows (Holger Weimar, TI) (11 min. presentation, 6 min. questions)
- Aquatic biomass (Simone Brüning, TI) (11 min. presentation, 6 min. questions)
- Secondary biomass resources (Burkhard Wilske, DBFZ) (11 min. presentation, 6 min. questions)

10:00 Break

10:30 **Monitoring across scales**

- Monitoring the performance and potential of agriculture in Germany (Margarethe Scheffler, Öko) (11 min. presentation, 6 min. questions)
- Monitoring bioeconomy impacts using remote sensing: The case of land use and biodiversity change driven by biogas demand in Lower Saxony (Ilze Dzene and Jayan Wijesingha, GNR) (11 min. presentation, 6 min. questions)
- Remote sensing approach for global crop-driven deforestation monitoring (Ana Cabezas, GRAS) (11 min. presentation, 6 min. questions)
- Monitoring the performance and potential of forestry in Germany (Mirjam Pfeiffer, Öko) (11 min. presentation, 6 min. questions)
- Biomass substitution potential in products: Opportunities and limitation of LCA (Horst Fehrenbach, Ifeu) (11 min. presentation, 6 min. questions)

12:00 Lunch

13:15 **Footprints, scenarios and levers for a sustainable bioeconomy transition**

- Agricultural and forestry biomass footprints (Christian Lutz, GWS) (11 min. presentation, 6 min. questions)
- Agricultural land footprint (Rüdiger Schaldach, CESR) (15 min. presentation, 6 min. questions)
- Biodiversity Footprint (Carsten Meyer, iDiv) (11 min. presentation, 6 min. questions)
- Climate footprint (Christian Lutz, GWS) (11 min. presentation, 6 min. questions)

14:30 **Next steps towards implementation of a bioeconomy monitoring system in Germany: Needs, priorities and gaps**

Panel discussion chaired by Stefan Rauschen, PtJ.

- Dietmar Walter, BMBF
- Tilman Schachtsiek, BMEL
- Katharina Schwarz, BMUV
- Peter Gerhardt, denkhausbremen e.V.

15:15 **Closing**

15:30 End of conference

Presenters

- Dr. René Backes, DBFZ Deutsches Biomasseforschungszentrum gemeinnützige GmbH
- Prof. Dr. Martin Banse, Thünen-Institut für Marktanalyse
- Dr. Meghan Beck-O'Brien, Center for Environmental Systems Research (CESR), University of Kassel
- Prof. Dr. Stefan Bringezu, Policy and Research Advisor - Sustainable Resources
- Dr. Simone Brüning, Thünen-Institut für Seefischerei
- Ana Cabezas, GRAS Global Risk Assessment Services GmbH
- Dr. Ilze Dzene, University of Kassel
- Horst Fehrenbach, Institut für Energie- und Umweltforschung GmbH (Ifeu)
- Peter Gerhardt, denkhausbremen e.V.
- Dr. Hanna Helander, Center for Environmental Systems Research (CESR), University of Kassel
- Dr. Susanne Iost, Thünen-Institut für Waldwirtschaft
- Dr. Felix Prinz zu Löwenstein, Hofgut Habitzheim
- Dr. Christian Lutz, Gesellschaft für Wirtschaftliche Strukturforschung mbH (GWS)
- Dr. Carsten Meyer, German Centre for Integrative Biodiversity Research (iDiv)
- Dr. Robert M'Barek, European Commission, Joint Research Centre (JRC), Italy
- Dr. Mirjam Pfeiffer, Öko-Institut e.V. (Öko)
- Dr. Stefan Rauschen, Projektträger Jülich (PtJ)
- Apl. Prof. Dr. Rüdiger Schaldach, Center for Environmental Systems Research (CESR), University of Kassel
- Margarethe Scheffler, Öko-Institut e.V. (Öko)
- Dr. Tilman Schachtsiek, German Federal Ministry of Food and Agriculture (BMEL)
- Katharina Schwarz, German Federal Ministry for the Environment, Nature Conservation, Nuclear Safety and Consumer Protection (BMUV)
- Dr. Jörg Schweinle, Thünen-Institut für Waldwirtschaft
- Dr. Andreas Täuber, German Federal Ministry of Food and Agriculture (BMEL)
- Dr. Dietmar Walter, German Federal Ministry of Education and Research (BMBF)
- Dr. Holger Weimar, Thünen-Institut für Waldwirtschaft
- Dr. Christina de Wit, German Federal Ministry of Education and Research (BMBF)
- Dr. Jayan Wijesingha, University of Kassel
- Dr. Burkhard Wilske, DBFZ Deutsches Biomasseforschungszentrum gemeinnützige GmbH
- Dr. Sven Wydra, Fraunhofer-Institut für System- und Innovationsforschung (ISI)
- Dr. Walther Zeug, Helmholtz Centre for Environmental Research, UFZ