

DRAFT

Monitoring
Bioeconomy

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 will explore 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

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Program

Day 1

13:30 **Registration**

14:00 **Opening**

- Welcome, conference aims and organization (Moderator Stefan Bringezu)
- Welcome by representatives of the German Federal Ministry of Education and Research (BMBF) and the 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 (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**

Day 2

08:30 **Biomass flows and uses**

- Total biomass flows (TI) (11 min. presentation, 6 min. questions)
- Agricultural biomass (TI) (11 min. presentation, 6 min. questions)
- Forestry biomass, tracing wood flows (TI) (11 min. presentation, 6 min. questions)
- Aquatic biomass (TI) (11 min. presentation, 6 min. questions)
- Secondary biomass, cascading use, by-product utilization and circular economy (DBFZ, TI) (11 min. presentation, 6 min. questions)

10:00 Break

10:30 **Footprints, scenarios and levers for a sustainable bioeconomy transition**

- Biomass and climate footprints (Christian Lutz, GWS) (16 min. presentation, 6 min. questions)
- Agricultural land footprint (Rüdiger Schaldach, CESR) (12 min. presentation, 6 min. questions)
- Water footprint (Anna Schomberg, CESR) (12 min. presentation, 6 min. questions)
- Biodiversity Footprint (Carsten Meyer, iDiv) (12 min. presentation, 6 min. questions)

12:00 Lunch

13:00 **Monitoring across scales**

- Monitoring the performance and potential of agriculture in Germany (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)
- Crop-driven deforestation abroad: Remote sensing toward sustainable supply chain monitoring (GRAS) (11 min. presentation, 6 min. questions)
- Monitoring the performance and potential of forestry in Germany (Öko - different presenter as above) (11 min. presentation, 6 min. questions)
- Biomass substitution potential in products: Opportunities and limitation of LCA (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 with representatives from ministries, agencies, NGOs, industry and international experts.

- Name TBD, BMBF
- Name TBD, BMEL

15:15 **Closing**

15:30 End of conference

Presenters

- Dr. René Backes, DBFZ Deutsches Biomasseforschungszentrum gemeinnützige GmbH
- Dr. Meghan Beck-O'Brien, Center for Environmental Systems Research (CESR), University of Kassel
- Prof. Dr. Stefan Bringezu, Center for Environmental Systems Research (CESR), University of Kassel
- Dr. Ilze Dzene, University of Kassel
- Dr. Hanna Helander, Center for Environmental Systems Research (CESR), University of Kassel
- 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)
- Robert M'Barek, European Commission, Joint Research Centre (JRC), Italy
- Apl. Prof. Dr. Rüdiger Schaldach, Center for Environmental Systems Research (CESR), University of Kassel
- Dr. Anna Schomberg, University of Kassel
- Dr. Jayan Wijesingha, University of Kassel
- Dr. Sven Wydra, Fraunhofer-Institut für System- und Innovationsforschung (ISI)
- Walther Zeug, Helmholtz Centre for Environmental Research, UFZ