



Universität
Münster



AKADEMIE
FRANZ HITZE HAUS
KATHOLISCHE KIRCHE
BISTUM MÜNSTER

BIOSTORE

BIOSTORE Workshop

Sustainable Battery Systems: Bridging Technology, Policy, and Governance Dynamics for a Renewable Future

14./15. November 2024, Akademie Franz Hitze Haus, Münster

The interdisciplinary research project “BIOSTORE / Biologization of Batteries and Materials: Developing the Battery of the Future”, located at the University of Münster, addresses the pivotal challenge of sustainability in the battery sector. BIOSTORE investigates the potential of the so-called biologization of batteries – a technique through which some commonly used battery components are replaced by bio-based alternatives. This process potentially enables the development of more sustainable energy storage devices while ensuring comparable performance. This research project, funded by the Ministry of Culture and Science of the State of North Rhine-Westphalia (MKW NRW), brings together experts from a wide range of disciplines, including biology, chemistry, engineering, political science, economics, and law.

Against this background, the BIOSTORE Workshop “Sustainable Battery Systems: Bridging Technology, Policy, and Governance Dynamics for a Renewable Future” brings together experts from academia, government, NGOs, industry and the interested public to discuss the opportunities and challenges in bridging innovation policies and regulation in the transition towards more sustainable battery systems. In addition to identifying and discussing scientifically and socially relevant research questions, the workshop aims to facilitate knowledge transfer between different stakeholders.

Program

Thursday, 14. November 2024

19:00 – 19:30: Welcome & Introduction:

“The BIOSTORE Project – an interdisciplinary research project at the interface between science, technology, business and politics”

Prof. Dr. Jochen **Schmid**, University of Münster, Institute of Molecular Microbiology and Biotechnology, BIOSTORE-Spokesperson

Prof. Dr. Thomas **Dietz** & Prof. Dr. Antonia **Graf**, University of Münster, Institute of Political Science

Prof. Dr. Monika **Stoll**, University of Münster, Prorektorin/Vice-Rector for Research

19:30 – 20:15: Keynote-Lecture:

“Sustainable batteries and where to find them”

Dr. Johannes **Klinge**, Senior Researcher Resources & Transport, Öko-Institut e.V./Institute for Applied Ecology, Darmstadt

Moderator: Dr. Adrienne **Hammerschmidt**, Universität Münster, MEET

20:15 – 20:45: Questions & Answers

Reception

Friday, 15. November 2024

09:00 – 09:15: Introduction

Prof. Dr. Thomas **Dietz** & Prof. Dr. Antonia **Graf**, University of Münster, BIOSTORE

Dr. Christian **Müller**, Katholisch-soziale Akademie Franz Hitze Haus, Münster

09:15 – 10:45: Panel 1: Sustainability Challenges and Technological Innovation in the Battery Sector

Moderator: Prof. Dr. Antonia **Graf**, University of Münster, BIOSTORE

- *“Life Cycle Assessment of Batteries: An Overview”*
Dr. Moritz **Gutsch**, Postdoctoral Researcher, University of Münster, BIOSTORE
- *“Environmental Assessment of Recycling Methods for Lithium-Ion Batteries”*
Luca **Stegemann**, Doctoral Researcher, University of Münster, Institute of Business Administration at the Department of Chemistry and Pharmacy
- *“Environmentally Responsible Battery Production in Europe”*
Dr. Esther **Laabs**, Project Manager Raw Materials & Batteries, WWF Germany, Berlin

10:45 – 11:15: Coffee Break

11:15 – 12:45: Panel 2: Governance in Energy Storage: Crafting Policies for a Sustainable Future

Moderator: Dr. Giorgia **Carratta**, University of Münster, BIOSTORE

- *“Towards Sustainable Battery Systems? A Degrowth-Based Critical Appraisal of EU and Spanish Legal Regimes for Batteries”*
Dr. Romain **Mauger**, Head of Legal Research Unit, Iberian Centre for Research in Energy Storage (CIIAE), Spain
- *“How the EU Can Secure a Sustainable Supply of Critical Minerals?”*
Johanna **Sydow**, Head International Environmental Policy, Heinrich-Böll-Stiftung e.V., Berlin
- *“Renewable Energy Communities: driving decentralization and the energy transition through community involvement & local storage”*
Grazia **Greco**, PhD Candidate, University of Milan, Italy

12:45 – 14:00: Group Photo & Lunch Break

14:00 – 15:30: Panel 3: States & Markets: Green Industrial Policy and the Battery Industry

Moderator: Prof. Dr. Thomas **Dietz**, University of Münster, BIOSTORE

- *“Green Industrial Policy and the Battery Industry”*
Dr. Karsten **Mause**, Postdoctoral Researcher, University of Münster, BIOSTORE
- *“EU Industrial Policy: The Case of the Battery IPCEIs”*
Helena **Gräf**, Research Associate and PhD Candidate, Hochschule für Wirtschaft und Recht Berlin & University of Erfurt
- *“Electrification of the Powertrain: The Transformation of Research and Production in the Automotive Industry”*
Thomas **Puls**, Senior Economist for Transport and Infrastructure, Institut der deutschen Wirtschaft e.V., Köln

15:30 – 16:00: Closing Remarks

Prof. Dr. Thomas **Dietz** & Prof. Dr. Antonia **Graf**, University of Münster, BIOSTORE

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Organizational Information

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Bitte kontaktieren Sie uns bei Fragen zur Barrierefreiheit.