



## A new, interactive and informative series of events around topical issues of the bio-based and CO<sub>2</sub>-based economy organised by nova-Institute.

Interested experts from industry, associations, policy and civil society will get together with leading nova experts at one-day workshops to get up-to-date, stay informed and discuss different topics.

**Location: Cologne Airport, Germany**

**Participation fee: 575 € per participant (ask us for special arrangements for groups)**

**Timing: To be decided among the interested experts**

If you are interested in joining one or several of the following events, please indicate your choices at **[www.bio-based.eu/sessions](http://www.bio-based.eu/sessions)**. Your indication is non-binding and only serves to determine the general level of interest. We will then find a suitable date with all interested parties and send out invitations soon after.

### 1 nova Session on biomass: Supply and demand scenarios until 2050

- Understand how biomass supply and demand are balanced in the world and in Europe today.
- Learn and discuss about biomass potentials for Europe and the world by 2050.
- Get maximum transparency on underlying assumptions and scenarios.
- Understand how to use these scenarios for your company, association or NGO.

The workshop will be based on nova-Paper #7 on bio-based economy: "Global bioeconomy in the conflict between biomass supply and demand" ([www.bio-based.eu/nova-papers](http://www.bio-based.eu/nova-papers)). Experts: Dr. Stephan Piotrowski, Michael Carus, Roland Essel.

### 2 nova Session on market data: Bio-based polymers and biocomposites

- Get insights into the latest market data.
- Understand trends and developments.
- Discuss with the leading experts of bio-based polymer markets.

Based on the latest comprehensive market studies by nova and partners "Bio-based Building Blocks and Polymers in the World - Capacities, Production and Applications: Status Quo and Trends Towards 2020" ([www.bio-based.eu/markets](http://www.bio-based.eu/markets)). Participants will receive a discount on the study. Experts: Florence Aeschelmann, Dr. Asta Partanen, Michael Carus and in addition one or two of: Jan Ravenstijn (MSc), Wolfgang Baltus (PhD), Harald Käß (PhD), Howard Blum (MBA).

### 3 nova Session on new quantification systems: Efficiency of biomass use in materials (BUE) and the Biomass Utilization Factor (BUF) for cascading use and co-production

- Understand two new and down-to-earth quantification systems developed by nova to bring scientific evidence to hotly discussed political topics.
- See how these systems can be applied to your processes or your branch to substantiate efficiency and sustainability claims.

Based on nova-Papers #8 and #9 on BUE and BUF ([www.bio-based.eu/nova-papers](http://www.bio-based.eu/nova-papers)). Experts: Michael Carus, Roland Essel, Elke Breitmayer, Kerstin Iffland.



## 4 nova Session on technology of the future: Carbon Capture and Utilization (CCU)

- Learn about fascinating new options to produce all kinds of organic materials, using only renewable energy, water and CO<sub>2</sub>: Chemicals, polymers and fuels.
- Find out about on-going projects and applications all over the world.
- Hear about the different technologies that can be used for CO<sub>2</sub> utilization: Biotechnology as well as pure chemical processes such as electrolysis, catalysis and Fischer-Tropsch.
- Discover the economic, environmental and political potential of CCU.

Based on the organisation of four leading conferences on CCU from 2012 to 2015 and projects in this field.  
Experts: Achim Raschka, Barbara Dommermuth, Michael Carus.

## 5 nova Session on Life Cycle Assessment: LCA for bio-based products

- Understand the life cycle thinking and LCA approach.
- Learn about the methodological challenges for bio-based products.
- Improve the footprint of your products and services with the sustainability integrated technology development process (SUITE).

Experts: Roland Essel, Dr. Christin Liptow.

## 6 nova Session on certification and labelling: Bio-based feedstocks and products

- Get an overview of existing sustainability certification schemes for agricultural and woody biomass.
- Find out about existing labels for bio-based carbon content in products.
- Hear about the latest developments in CEN and ASTM on standards and norms for bio-based products.
- Get insight into biodegradation standards and test methods for bio-based plastics in different environments.

Experts: Lara Dammer, Dr. Asta Partanen, Michael Carus.

If interested, please indicate your choices at [www.bio-based.eu/sessions](http://www.bio-based.eu/sessions)

**Michael Carus**  
Dipl.-Phys.  
Founder &  
Managing Director



**Roland Essel**  
Dipl. Env. Sc.  
Deputy Director &  
Sustainability Dept. Head



**Elke Breitmayer**  
M.Sc. agr. econ.  
Life Cycle Assessment &  
Economics



**Christin Liptow**  
PhD  
Life Cycle Assessment



**Achim Raschka**  
Dipl.-Biol.  
Technology & Markets  
Department Head



**Florence Aeschelmann**  
Dipl.-Ing. Mat. Sc.  
Bio-based Plastics &  
Composites



**Barbara Dommermuth**  
B.Sc. Geogr.  
Carbon Capture & Util.,  
Editor Bio-based News



**Kerstin Iffland**  
M.Sc. Neurosc.  
Bio-based Chemistry &  
Industrial Biotechnology



**Lara Dammer**  
M.A. Pol.  
Economy & Policy  
Department Head



**Asta Partanen**  
Dr. rer. nat.  
Wood & Bio-based  
Materials, Labelling



**Stephan Piotrowski**  
Dr. Sc. agr.  
Economics & Resources

