

ROLES OF BIOENERGY TECHNOLOGIES IN ENERGY SYSTEM PATHWAYS TOWARDS A WB2/SDG WORLD

Workshop Announcement

IEA **Bioenergy Workshop** at **25 November 2019** in **Berlin**, Germany

Workshop summary

As part of an inter-task project involving IEA Bioenergy Tasks 40, 43, 44 and 45, we are launching an initiative to involve experts in the assessment of the possible roles of bioenergy in well below 2°C (WB2) and Sustainable Development Goals (SDG) scenarios. Information on results and findings from recent studies examining how bioenergy and related technologies contribute to reducing the greenhouse gas emissions necessary to achieve the WB2 target will be discussed. Studies that are specific to a region or nation or of global importance are all of interest. The studies may cover several energy sectors or focus on a single sector. The initiative focuses on the use of biomass for heat, electricity and transport. In addition, we will also investigate how such biomass use can interact with other land-based mitigation options, such as afforestation, reforestation and biochar production and use to improve carbon storage in vegetation and soils.

The Inter-Task project will assess the role of bioenergy in WB2/SDG scenarios, with the aim of identifying and disseminating strategies for the implementation of bioenergy that contribute positively to a societal transition towards the WB2 objective and at the same time contribute to other SDG objectives.

Aims and objective of the workshop

- Provide an overview and update of studies assessing the roles of bioenergy in energy system pathways toward a WB2/SDG world.
- Identification of possible knowledge gaps.
- Develop ideas, actions and products for the future including multi-national initiatives in short presentations and in a plenary discussion.

A report synthesising the submitted studies and workshop discussions will be published and disseminated by IEA Bioenergy.

Workshop timeline and format

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| 8:00 – 9:00 | Registration | |
| Introduction | | |
| 9:00 – 10:15 | V. Niendieker (BMEL) | Welcome from the German Federal Ministry of Food and Agriculture |
| | N. Gorißen (BMU) | German Federal Ministry for Environment views on climate change mitigation & the role of bioenergy |
| | A. Cowie, D. Thrän, G. Berndes | Scope of the workshop |
| | V. Daioglou | Sensitivities and uncertainties of bioenergy strategies in a WB2 world: Integrated Assessment Models perspective |
| | F. Creutzig & F. Johnsson | Can we stay well below 2 degree warming without relying on biomass based options? A Dialogue |
| Megaregions | | |
| 10:30 – 12:30 | J. Portugal | Biomass use in pathways towards a WB2/SDG future in Brazil (LAM?) |
| | M. Langholtz | Economic accessibility of bioenergy with carbon capture and sequestration (BECCS) in the US |
| | F. Schipfer | Sustainable and optimal use of biomass for energy in the EU beyond 2020 |
| | S. Leduc | Optimal biomass use for energy and transport in Europe |
| | U. Fritsche (mod.) | Plenary discussion with previous speakers |
| Country level: National Bioenergy Plans and Studies | | |
| 13:30 – 15:10 | M. Lehtveer | Regions in Europe |
| | A. Brown | United Kingdom |
| | T. J. Lindroos | Finland |
| | M. Millinger | Germany |
| | B. Yuwono | Indonesia |
| | D. Thrän (mod.) | Discussion |
| Discussion on synthesis report & dissemination activities | | |
| 15:30 – 17:00 | all | Group discussion/world café on content and structure of the synthesis report + dissemination activities |
| | A. Cowie, D. Thrän, G. Berndes | Summary and conclusions |

To stimulate active dialogue among the participants, the workshop will include blocks of short presentations interspersed with open debate to address such questions as:

- How does countries/regions move towards achievement of a WB2/SDG world?
- What are recommendations for specific measures aimed at the WB2/SDG target?

The workshop will start at 9am with presentations of the studies moving from global to national perspective and will close with a group discussion/world café.

Workshop venue

Federal Ministry of Food and Agriculture (BMEL)
Wilhelmstraße 54, Berlin-Mitte
10117 Berlin
Tel. +49 30 185290

Contact information and registration

If you wish to register your interest for attending the workshop, please contact us at workshopWB2@ufz.de. Participation is free of charge, but registration is mandatory. If you have any questions about the event, please do not hesitate to contact us as well: Daniela Thrän (daniela.thraen@ufz.de), Annette Cowie (annette.cowie@dpi.nsw.gov.au) and Göran Berndes (goran.berndes@chalmers.se).