



# The Role of Biorefining in a Future BioEconomy

## *Austrian Stakeholder Workshop of IEA Bioenergy Task 42 “Biorefining”*

**Time:** October 24, 2013 from 9:00 – 17:00

**Place:** JOANNEUM RESEARCH Forschungsgesellschaft mbH,  
Leonhardstrasse 56, 8010 Graz/Austria

### **Local organiser and Registration**

Gerfried Jungmeier, JOANNEUM RESEARCH

gerfried.jungmeier@joanneum.at

***To register please send a mail to Gerfried Jungmeier:  
gerfried.jungmeier@joanneum.at***

## Draft Program

Thursday October 24, 2013

### Welcome and Introduction (9:00 – 10:30)

- ✓ Welcome&Introducton: local/task leader/ExCo member/ministry
- ✓ **Achievements of IEA Bioenergy Task 42 “Biorefining”**, Rene van Ree, Task 42 Leader, Wageningen UR, The Netherlands
- ✓ **Update on the German Biorefinery Road Map**, Heinz Stichnothe, Johann Heinrich von Thünen Institute (vti), Federal Research Institute for Rural Areas, Forestry and Fisheries, Germany

*10:30 – 11:00 refreshment break*

### International Perspectives of Biorefining in a BioEconomy (11:00 – 12:30)

- ✓ **Using Straw and MSW for Biorefineries in Denmark – Technical Developments and Demonstration Activities**, Henning Jørgensen, University of Copenhagen, Denmark
- ✓ **Biorefinery Demonstration Activities for Transportation Fuels and Biomaterials&Biochemicals in North America**, N.N.
- ✓ **Biorefinery Pischelsdorf – From Starch to Products for Food, Feed, Transport and Industry Markets**, Lukas Maier, AGRANA, Vienna, Austria

*12:30 – 14:00 lunch break*

### Austrian Industry Perspectives of Biorefining in a BioEconomy (14:00 – 15:30)

- ✓ **The BioCRACK Demo Plant – Liquid Phase Pyrolyses of Lignocellulose Integrated in an Oil Refinery**, Peter Bucher, BDI – BioEnergy International, Graz, Austria
- ✓ **Biorefineries and the Austrian Pulp and Paper Industry – Challenges for the BioEconomy**, Yvonne Groiss, Austropapier, Vienna, Austria
- ✓ **Algae Demo Plant to Produce Food, Fuel and Fertilizer in Bruck/Leitha**, Martin Mohr, ecoduna, Bruck/Leitha, Austria (tbc)

*15:30 – 16:00 refreshment break*

### Austrian Research Perspectives of Biorefining in a BioEconomy (16:00 – 16:30)

- ✓ **Austrian Research Agenda for Biobased Industry**, Andreas Windsperger, Institute for Industrial Ecology, St. Pölten, Austria
- ✓ **The Possible Role of Biogas in a BioEconomy**, Bernhard DROSG, IFA-Tulln, Institute for Environmental Biotechnology, BOKU - University of Natural Resources and Life Sciences, Vienna, Austria

### Summary and Outlook (16:30 – 17:00)

- ✓ **International Perspectives of Biorefining in a BioEconomy**, Rene van Ree (NL), Task Leader of IEA Bioenergy Task 42 “Biorefining”
- ✓ **Austrian Perspectives of Biorefining in a BioEconomy**, Gerfried Jungmeier, National Team Leader of IEA Bioenergy Task 42 “Biorefining”

**17:00 End of Workshop**

## Logistic information

The meeting takes place at JOANNEUM RESEARCH, Leonhardstrasse 56, 8010 Graz. The location can be reached from the train station within 15 min by tram 1 (direction "Maria Trost") or tram 7 (direction "St. Leonhard") to "Merangasse".

**The Austrian participation in Tasks 42 of IEA Bioenergy is financed by the Federal Ministry for Transport, Innovation and Technology / Department for Energy and Environmental Technologies**



### Task Leader

René van Ree  
Wageningen UR – Food and Biobased Research  
WUR Biobased Products  
P.O. Box 17  
6700 AA Wageningen  
The Netherlands  
+31-317-480710  
[rene.vanree@wur.nl](mailto:rene.vanree@wur.nl)

### National Team Leader

Gerfried Jungmeier  
JOANNEUM RESEARCH Forschungsgesellschaft mbH  
RESOURCES - Institute for Water, Energy and Environment  
Elisabethstraße 18/II, A-8010 Graz, Austria  
+43 316 876 1313, mob +43 664 602 876 1313  
[gerfried.jungmeier@joanneum.at](mailto:gerfried.jungmeier@joanneum.at); [www.joanneum.at](http://www.joanneum.at)

## ***The Austrian Participation (2013 - 2015) in IEA Bioenergy Task 42 “Biorefining”***

### Introduction

Since Austria joined the IEA Austrian research projects contribute actively to the generation of new knowledge. These research projects play an important role in Austrian energy research. The international research activities in the IEA framework are reflected in the national activities and key aspects. Therefore the focus of this program is to enable the Austrian participation in research activities of the IEA and to ensure the distribution of newly developed results, flow of information and networking activities. The IEA Task 42 “Biorefining” deals with the analysis and distribution of strategic relevant information of value chains of biorefineries. Based on this information the implementation of a BioEconomy should be supported. The cooperation with Task 42 is highly relevant for Austria, to be able to comprehend complex biorefinery concepts and their potential for Austria and to analyze the role of national projects compared to the ongoing international activities. Therefore cooperation with Task 42 is sought for the next working period.

### Goal and methods

The goal is to cooperate with the IEA Bioenergy Task 42 “Biorefining” (currently 11 participating countries – AUS, A, CA, DK, F, G, IR, I, NL, T, USA) as Austrian representative for the working period 2013 – 2015. The main focus is to bring in the Austrian contributions to the international agreed key aspects on biorefining. This also includes national distribution and networking tasks, e.g. extension of the existing network of Austrian activities in the field of biorefineries to intensify the national and international information flow. The work is carried out in close cooperation with the international partners of the IEA Bioenergy Task 42. Task 42 will provide a major contribution in tackling technical and non-technical critical success factors by:

1. Assessing the major market deployment aspects for integrated biorefineries
2. Supporting industrial/SME stakeholders finding their position in a future BioEconomy
3. Analyzing optimal sustainable biomass valorization approaches for Food and Non-food (incl. Energy/Fuels) applications within a market-pull approach
4. Preparing policy advice on further needs (regulation, research, ...)
5. Organizing knowledge dissemination activities
6. Developing and organizing training activities

Synergetic international co-operation within the IEA Bioenergy framework will potentially decrease the time-to-market for high-efficient integrated biorefineries by tackling major success factors at the right international level.

Expected results

To the following international Task 42 results Austrian contributions are planned:

- Two reports (critical success factors, game changing technologies) tackling major market deployment aspects to improve biorefinery market implementation (industry/SMEs, GOs, knowledge partners).
- An international workshop and report on best-practices and policy recommendations concerning decentral biorefineries (industry/SMEs, regional and national GOs, knowledge partners).
- An international workshop (and report) on
  - best-practices for co-operation of stakeholders from different market sectors of the BioEconomy (all stakeholders covering the full value chain, incl. GOs) and
  - upgrading of existing industrial infrastructures to biorefineries.
- A report and five glossy leaflets on upgrading strategies of existing power plant, biofuel, oil refinery, pulp/paper and food industry facilities (industry/SMEs, knowledge partners, GOs).
- An update of the report Bio-based Chemicals, and potentially a new report on Bio-based Materials (industry, GOs).
- Joint Tasks desk-study and modeling activities, including an international seminar and workshop, concerning the analysis of sustainable biomass valorization approaches for Food and Non-food within a market pull approach.
- Up to six industrial stakeholder meetings in different participating countries (industry/SMEs).
- Annual national Task meetings in the participating countries.
- Task website, regularly electronic Task newsletters, a glossy Task brochure.
- Biorefinery Training School that will be organized annually in one of the partnering countries.

National Team Leader: Gerfried Jungmeier, JOANNEUM RESEARCH, Austria

<http://www.iea-bioenergy.task42-biorefineries.com/>