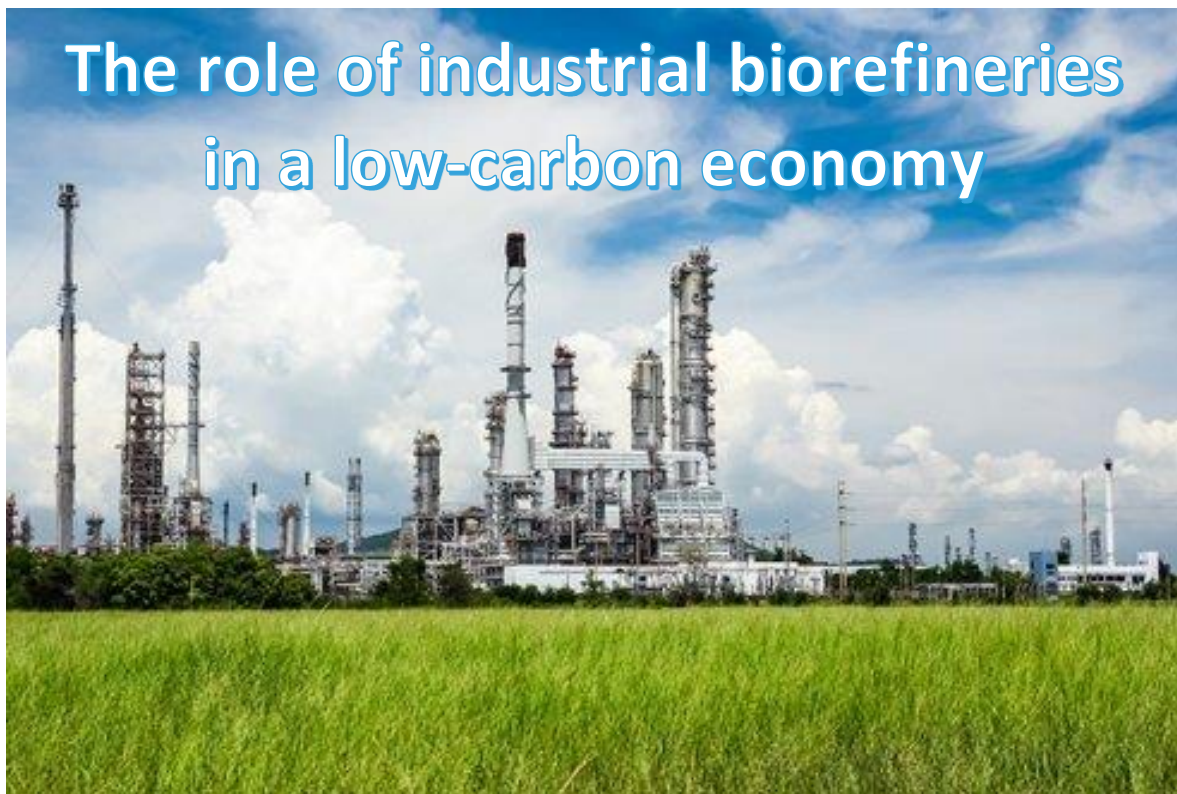


***Interactive workshop*****Tuesday 16 May 2017****The Radisson Blu Scandinavia Hotel, Gothenburg, Sweden**

Workshop organized by the Technology Collaboration Programmes IEA Bioenergy and IEA IETS, and hosted by Chalmers University of Technology and the Swedish Energy Agency

***Introduction/background***

The transformation to a low carbon-economy requires a change in the whole system. An important contribution will be required from industry in terms of energy conservation and shifting to renewable feedstocks. Industrial biorefineries play a central role in this process towards efficient and low-carbon production systems. A clear time perspective is needed, as the societal conditions and surrounding systems for industrial production will also change. The workshop will dig into the role of industrial biorefineries in the transformation to a low-carbon economy, with a number of successful examples and interactive discussions with the audience on how such transition could be realized.

## **Programme** (version 21 April 2017)

8.30 Registration

8.50 **Welcome and Introduction** (5 minutes each)

*Åsa Forsum, Swedish Energy Agency*

*Thore Berntsson, Chair IEA IETS*

*Kees Kwant, Chair IEA Bioenergy*

9.10 **Session 1: Biorefinery developments – plenary presentations**

**Facilitator: Isabel Cabrita, General Directorate of Energy and Geology, Portugal**

- Future biorefinery concepts. *Jussi Manninen, VTT, Finland (20 minutes)*
- Economic and environmental evaluation of large biorefinery concepts. *Andrea Ramirez, TU Delft, the Netherlands (20 minutes)*
- Infrastructure for biorefinery systems – future scenarios in oil refineries and chemical industry, and climate consequences. *Henrik Thunman, Chalmers University, Sweden (20 minutes)*
- Industry view on worldwide biorefinery development. *Johan van Doesum, DSM, the Netherlands (20 minutes)*

Opportunity Scouting by Creative Dialogues - Introduction to the interactive workshop (Session 2). *Erik op ten Berg, PioenConsult (10 minutes)*

10.40 Tea/coffee

11.10 **Session 2: interactive workshop on strategic biorefinery developments** (90 minutes)

**Moderator: Erik op ten Berg, PioenConsult**

The audience will be split up in break-out groups of around 10 people each.

Items to be tackled:

1. Promising concepts for biorefineries and products in different sectors, i.e. pulp and paper industry, food and feed industry, chemical industry, petroleum refineries, energy industry
2. Concrete short and longer term implementation opportunities
3. Business opportunities that can be implemented now. How to organize and set up these value chains?

12.10 Pitch of results per group - plenary

12.40 Lunch

13.40 **Session 3: How to overcome deployment barriers for biorefineries – plenary presentations**

**Facilitator: Rene van Ree, Wageningen UR, the Netherlands**

- Perspectives of industrial biorefineries in the global bioeconomy – role of the policy framework to support implementation. *James Philp, OECD, France (20 minutes)*

- Biofuel driven biorefineries in the US and deployment barriers. *Jim Spaeth, United States Department of Energy (20 minutes)*
- Supporting the transformation of forest industry to biorefineries. *Eric Soucy, National Resources Canada (20 minutes)*
- From innovation to reality: realizing industrial transformation towards the circular economy. *Ed de Jong, Avantium, the Netherlands (20 minutes)*

Introduction to the second interactive workshop (Session 4). *Erik op ten Berg, PioenConsult (10 minutes)*

15.10 Tea/coffee

15.40 **Session 4: interactive workshop on deployment barriers and actions (80 minutes)**  
**Moderator: Erik op ten Berg, PioenConsult**

The audience will be split up in break-out groups of around 10 people each.

Items to be tackled:

1. Main non-technical barriers and problems for industrial players to adopt and integrate biorefinery concepts
2. How to overcome the major barriers
3. Concrete recommendations for research and industry, and for policy support

17.00 Pitch of results per group - plenary

17.30 Closure of the workshop

17.45 Drinks & snacks

## Practical information

---

**Date:**

Tuesday 16 May 2017, 8.30-17.45

**Meeting location:**

The Radisson Blu Scandinavia Hotel, Sodra Hamngatan 59, 24 Gothenburg, Sweden

**Recommended hotels:**

The Radisson Blu Scandinavia Hotel

<https://www.radissonblu.com/en/hotel-gothenburg>

STF Göteborg City Hotel, Drottninggatan 63-65, Gothenburg

<http://stf-goteborg-city-hotel.gothenburg-hotels.com/en/>

Details of other options can be found at <http://booking.meetx.se/en/accommodation>

**Participation:** Invitation only. Participation is free of charge, but registration is required before Wednesday 3 May 2017 through the following link:

<http://www.trippus.net/ExCoTuesday>

**More information:**

Luc Pelkmans

Technical Coordinator IEA Bioenergy

[luc.pelkmans@caprea.be](mailto:luc.pelkmans@caprea.be)

tel. +32 492 977930



IEA Bioenergy, also known as the Technology Collaboration Programme for Research, Development and Demonstration on Bioenergy, functions within a Framework created by the International Energy Agency (IEA). [www.ieabioenergy.com](http://www.ieabioenergy.com)

The Mission of IETS is to foster international co-operation among OECD and non-OECD countries for accelerated research and technology development of industrial energy-related technologies and systems. [www.iea-industry.org](http://www.iea-industry.org)

Views, findings and publications of IEA Bioenergy or IEA IETS do not necessarily represent the views or policies of the IEA Secretariat or of its individual Member countries.