Task 40
Sustainable Bioenergy Trade

IEA Bioenergy

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ABOUT US

Task 40 is an international working group under the IEA Bioenergy Implementing agreement. We conduct studies and organize events on various topics related to sustainable international bioenergy trade. Follow us on http://www.bioenergytrade.org

The Task is jointly led and coordinated by Peter-Paul Schouwenberg (RWE Essent)and André Faaij (Copernicus Institute, Utrecht University), who will succeeded by Martin Junginger (also UU) as of January 1st 2013. Chun Sheng Goh (also UU) is assisting and logistically supporting the Task. Kees Kwant (NL Agency) is Operating Agent for the Task.

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Please contact your national team leader for more information and how you can get involved with Task 40. Click here for detail contact information.

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Upcoming events:

CanBio Annual National Conference & Tour - "The Bioeconomy - Advantage Canada!" (27-29 November 2012)

CanBio is partnering with IEA Bioenergy Task 40 to showcase growth in bioenergy in Canada, Asian markets, and partnership opportunities with Austalia, New Zealand, China, Korea, Singapore, and others. This event will be an opportunity to network with key industry, non-profit, and public sector stakeholders from North America, Europe and Asia. Conference presentations and panel discussions will cover:
- Exponential growth in Canadian domestic bioeconomy, shown in CanBio's 2012 Data Study;
- What is hot in the Bioeconomy;
- Opportunities for extracting High Value Products from biomass;
- Overseas markets, with a focus on Pan-Pacific Bio-Trade;
- Strategies for Accessing Capital and Financing for bioeconomy developments;
- The status of Biomass Heat and Power, with a special session on Remote Communities;
- And more...

Click here for more details.

Contact: **Doug Bradley** (Climate Change Solutions, Canada)

Reports:

Torrefactions

The focus of this study is to examine briefly the status of the development of torrefaction technology, and more importantly assess what are the likely biomass sources and what impact the development of torrefied wood will have on global trade, in particular between now and 2020. This study assessed the extent torrefaction might open up new biomass feedstock sources, and explored how torrefied biomass will perform along the logistical chain of long-haul international transport and at the end-use conversion plants. The torrefaction process was compared with two other important preconditioning technologies: simple pelletization and flash pyrolysis. Click here to download the report.

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The Potential Role of Biofuels in Commercial Air Transport - Biojetfuel

This report is an overview, not a detailed analysis, of the use of biofuels in commercial aviation. Aviation is a global industry with global problems and challenges that also demands global solutions. Key objectives of commercial aviation are to find reliable fuel alternatives to cut costs, and reduce volatility of fuel supply, GHG and improve logistics. The use of biofuels in commercial aviation has received considerable attention in recent years, as it is currently one of the best short to medium term alternatives. Commercial aviation is predicted to grow at a 5% rate annually until 2030, exceeding expected fuel efficiency improvements of approximately 3%; this implies that fuel consumption and emissions will continue to rise. According to IATA (2011b) the airline industry will progress from carrying 2.4 billion passengers in 2010 to an estimated 16 billion passengers in 2050. The global fleet now numbers 100,000 and there are eight major aircraft manufacturers. This is an industry that requires huge investment but provides low returns. Download the report.

Contact: **Frank Rosillo-Calle** (Imperial College London, UK)

On-going work:

Monitoring Sustainability Certification of Bioenergy

The study was started in January 2012 and will be concluded by the end of the year. In May a survey was distributed to stakeholders in all regions of the world. The survey specifically investigates the operational experiences of people actively involved with any aspects of bioenergy production systems. We are keen to hear from those engaged in biomass feedstock production, conversion into primary and secondary biofuel and bioenergy products, markets and trade. Experts familiar with bioenergy based on agriculture, forestry and dedicated energy crops, and governance mechanisms that include binding and voluntary standards, legislation, regulations and certification schemes are welcome to share their experiences. The survey places a particular focus on the input of stakeholders on how systems can be improved to be more effective. Many people have responded - so far we have received 157 survey responses, from all over the world. Meanwhile a first statistical analysis of the responses is available (download).

Contact: **Luc Pelkmans** (VITO, Belgium)

Project description:

At present numerous biomass and biofuel sustainability certification schemes are being developed or implemented by a variety of private and public organisations. Schemes are applicable to different feedstock production sectors (forests, agricultural crops), different bioenergy products (wood chips, pellets, ethanol, biodiesel, electricity), and whole or segments of supply chains. This

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wide range of schemes, developed largely without coordination among the organisations involved, may create confusion among the actors, depression of markets, and unnecessary cost burdens and restrictions on sustainable trade.

Within IEA Bioenergy a strategic study was initiated among Tasks 40, 43 and 38 to monitor the actual implementation process of sustainability certification of bioenergy, evaluate how stakeholders are affected by certification initiatives, quantify the anticipated impact on worldwide bioenergy trade, assess the level of coordination among schemes, and make recommendations to remove barriers which may depress markets and reduce sustainable trade. Consulting different stakeholder groups and obtaining a view on how certification schemes are operating and impacting markets is one of the main objectives of the study. It is anticipated that recommendations be representative of the whole bioenergy certification sector and therefore have high potential to improve an otherwise uncoordinated interest in ensuring bioenergy trade is sustainable.

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Health and Safety Aspects of Solid Biomass Storage, Transportation and Feeding

Task 40 will investigate various health and safety issues of different transportation modes, based on articles and other materials, collected from national sources and a few of interviews on a national level with those persons actively involved in these issues (port authorities, biomass transporting companies, etc.). It is important to share information on risks incidents, lessons learned and procedures specifically related to transport.

Contact: **Lars Nikolaisen** (Danish Technological Institute, Denmark)

Large industrial users of energy biomass

The objective of the study is to obtain a global overview of the biomass use in industrial applications and transport sectors. The study investigates data availability and challenges related to the identifying the largest industrial users of energy biomass. The aim is to compose list of world largest users of energy biomass. The study includes heat and power plants and biofuel plants.

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COUNTRY REPORTS 2011

University of Technology, Finland)

Future perspectives of international bioenergy trade

Outlook on bioenergy trade in order to provide insight into "possible futures" of bioenergy trade and discuss implications and challenges related to different developments. The sub-objectives of this study are:
- Investigate to which extent various global energy models and scenarios take into account bioenergy trade,
- Identify the implications of different global bioenergy scenarios on bioenergy trade.
- Summarize the range of results into 3-5 storylines of future international bioenergy trade.

Contact: **Lukas Kranzl & Julian Matzenberger** (Vienna University of Technology, Austria)

Farewell...

Task 40 is also saying good-bye to two of its long term members: one of the founding fathers and leader since the start **Prof. André Faaij** (Utrecht University) is leaving task 40 after nine years of enthusiastic leadership. Over the years, task 40 developed from a small task with a mere 4 members in Europe, to one of the larger tasks in the Bioenergy agreement, counting 14 members on 4 continents, making the outreach of the task truly global. He actively promoted the output of the task in amongst others the recent IPCC SRRES report, and guided the publication of numerous reports and the organisation of more than 30 workshops. He is handing over the reins to his colleague Martin Junginger who will be jointly leading the task from January 2013 onwards with Peter-Paul Schouwenberg (RWE Essent). Also **Frank Rosillo-Calle**, UK national team leaders respectively from the start is retiring at the end of 2012. We would like to thank André and Frank for their long-term efforts and passion to support the development of global bioenergy markets.

André Faaij (left) and Frank Rosillo-Calle (right)

Main editor: Chun Sheng Goh, Utrecht University, c.s.goh@uu.nl
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