

Workshop Announcement

**Greenhouse gas credits trade versus biomass
trade – weighing the benefits**

Trondheim, Norway 5-6 April, 2006

Jointly organised by

IEA Bioenergy

Task 38 – Greenhouse Gas
Balances of Biomass and
Bioenergy Systems

Task 40 – Sustainable
International bioenergy Trade:
Securing Supply and Demand



Conference Websites: www.bioenergytrade.org/activities2006/norway.html
www.joanneum.at/iea-bioenergy-task38/workshops/announcement.pdf

Background

IEA Bioenergy is an international, collaborative research programme on bioenergy aiming at improved international cooperation and information exchange (www.ieabioenergy.com).

The primary goal of **IEA Bioenergy Task 38** (“Greenhouse Gas Balances of Biomass and Bioenergy Systems”) is to investigate all processes involved in the use of bioenergy and carbon sequestration systems, with the aim of assessing overall greenhouse gas balances and supporting decision makers in selection of mitigation strategies. Participating countries are Australia, Austria, Canada, Croatia, Denmark, Finland, Ireland, New Zealand, Norway, Sweden, The Netherlands, and the USA. The conference is part of a series of workshops and conferences within Task 38, taking place on a regular basis. For more detailed information on the Task, its output, and on previous events see www.joanneum.at/iea-bioenergy-task38.

IEA Bioenergy Task 40 aims to contribute to the development of sustainable biomass markets in the short to long term and at different geographical scales (from regional to global). In its intended activities, the task programme will take the several stages of development of sustainable biomass energy markets, at the national, regional and global level fully into account. The future vision for global bio energy trade is that it develops over time into a real “commodity market” which will secure supply and demand in a sustainable way; sustainability being a key factor for long-term security. Participating countries are Belgium, Brazil, Canada, Finland, Italy, the Netherlands, Norway, Sweden, the United Kingdom. Also the FAO and the World Bank participate as affiliated international bodies. For more information, see www.bioenergytrade.org.

Scope and objectives

The reduction of greenhouse gas (GHG) emissions is an urgent international target. The sustainable use of biomass for energy is one important option that might significantly contribute to the reduction of GHG emissions by substituting the use of fossil energy. Trade in biomass fuels, electricity, renewable certificates and CO₂ credits are presented as options for business and policy makers as they try to meet increasing energy demands and at the same time addressing national and international commitments to reduce GHG emissions and increase renewable energy sources.

Bio-energy trade has expanded rapidly in recent years with forestry and agricultural residues, “green power”, bio-ethanol and vegetal oils being traded at national, regional and global energy markets. Advantages of such a market are potentially plentiful. For example, CO₂-neutral biomass resources are utilised efficiently on a large scale; new markets may generate substantial income sources for relatively poor world regions; and energy markets world-wide may become more stable due to a larger number of energy suppliers compared to the current situation. Most important may be the effect that such a market may indeed lead to development and sustainable use of the vast bio-energy production potential in many world regions.

Despite the rapidly developing international bio-energy trade (both liquid and solid fuels) physical trade of biomass (or energy carriers derived from biomass such as liquid fuels) is not necessarily the optimal solution from both a cost and a GHG mitigation perspective. International logistics lead to higher costs and energy use compared to local or regional utilisation of resources. Although with optimised chain design (e.g. involving large scale transport, transport of high energy density commodities) such additional costs and energy uses remain modest, local use as such and subsequently trading electricity, CO₂ credits or Renewable Certificates provide important alternatives. It will depend on various essential criteria what option suits best for each combination of (potential) exporting and importing country.

The main objective to be addressed and discussed in this joint workshop are the advantages of the various trading possibilities, the necessary accounting rules and criteria to select the most efficient mechanisms under varying circumstances. It will provide a forum for government, business and academic representatives to exchange and gain information on the status of the various biomass-carbon trading and certificate trading markets.

Joint IEA Bioenergy Task 38 and Task 40 Workshop

Greenhouse gas credits trade versus biomass trade – weighing the benefits

PROGRAMME

Wednesday, 5 April 2006
Rica Nidelven Hotel, Trondheim, Norway

Each presentation circa 20 minutes, followed by 10 minutes of discussion. All speakers have been confirmed, though titles of the presentations are preliminary.

8:30 Registration / Morning Refreshments

9:00 Word of welcome

Eli Arnstad Director and Oyvind Leisted, National Task Leader, Enova, Norway
Bernhard Schlamadinger, Leader of Task 38, Joanneum Research, Austria
André Faaij, Leader of Task 40, Copernicus Institute, The Netherlands

**Session 1 International biomass trade and greenhouse gas accounting
(chair: Bernhard Schamadinger)**

9:30 Task 40 Norwegian country report, State of the art at the Norwegian bioenergy scene
Torjus Bolkesjø, The Norwegian University of Life Science, Norway

10:00 GHG balances of Canadian biomass exports (combined T40/T38 work)
Douglas Bradley, Climate Change Solutions, Canada

10:30 Eletrabel's implementation strategy for large scale biomass imports
Yves Ryckmans, Electrabel, Belgium

11:00 Coffee break

11:30 Next steps for co-firing biomass including certification. *Martin Junginger, Copernicus Institute, on behalf of Peter-Paul Schouwenberg, Essent Energy Trading, The Netherlands*

12:00 Trading biomass or GHG emission credits?
Jobien Laurijssen, Copernicus Institute-UU; The Netherlands

12:30 CO₂ emissions from international biomass transport
Lisa Näslund, Mid Sweden University, Sweden

12:45 Lunch

14:00 GHG reporting and accounting rules for wood products including biomass for energy
Kim Pingoud, VTT, Finland

**Session 2 Biomass use under emission trading and certificate trading schemes
(chair: André Faaij)**

14:30 The EU ETS in the Finnish context: Does the ETS support local bioenergy implementation? *Pirkko Vesterinen, VTT, Finland*

Overview on CDM bioenergy projects

15:00 *Joergen Fenhann, Risoe National Laboratory, Denmark*

- 15:30** *Coffee break*
- 16:00** Implementing the Clean Development Mechanism - A project developer's perspective
Bruce Talbot, Danish Centre for Forest, Landscape and Planning, Hoersholm, Denmark
- 16:30** Bioenergy and Climate Change Activities in Canada: Carbon Offset Trading, CDM/JI and Government Incentives, *Terry Hatton, National Resources Canada, Canada*
- 17:00** Future developments of CDM / JI - policy, programmes, approaches
Axel Michaelowa, Hamburg Institute of International Economics, Germany
- 17:30** CO2 trade vs. biomass trade from the view of the local sustainable development of the exporting / host country *Bernhard Schlamadinger, Joanneum Research, Austria*
- 17:40** General Discussion
- 18:00** End of first day
- 19:00** Workshop Dinner (on invitation of Enova), departure from the hotel by bus

PROGRAMME

Thursday, 6 April 2006
Rica Nidelven Hotel, Trondheim, Norway

Session 2 Continuation (chair: Enova)

- 9:00** Norwegian experiences in marketing and trading of renewable energy and green certificates *John Ravlo, Marketing Directo Enviro Energi, Norway*
- 9:30** From traditionally forestry to biofuel and bioenergy
Pål Bæverfjord, Managing Director of Industriflis Nord, Norway
- 10:00** Dry bulk shipping, an essential in developing efficient biofuel supply chains
Emil Brandrud, Platou Shipping, Norway
- 10:30** End of Workshop and starting of Excursion (with general discussion on Session 2 and coffee break in the bus)
- 11:00** Stop at Allskog's wood chipper at Orkanger
- 11:45-13:00** Lunch at Bårdshaug Herregård
- 14:00-15:30** Visit to Fesil Holla Metall
- Introduction to the plant and the use of wood chips in the production of silicon, by representative from Fesil Holla Metall
 - Closer look at the wood chipping facility, guided by representative from Allskog
- 17:00** Arrival back at Rica Nidelven Hotel, Trondheim
- 18:00** *On request*, the bus will continue directly to the airport. Arrival at the airport approx 18:00.

Venue

The workshop will be held at Rica Nidelven Hotel:

Rica Nidelven Hotel
Havnegata 1
N-7400 Trondheim
Norway
Phone: +47 73 56 80 00
Fax: +47 73 56 80 01

For more information and a route description see:

<http://www.rica.no/index.cfm?oa=hotel.displayLocation&con=686>

Accommodation

For IEA Task 38 and T40 members, 30 rooms have been preliminary reserved at the Rica Nidelven hotel from the 2nd to 6th of April. Please make your definite booking using the following reference: 04/06/enova/05

Individuals will make their own reservations.

Rica Nidelven Hotel
Havnegata 1
N-7400 Trondheim
Phone: +47 73 56 80 00
Fax: +47 73 56 80 01
e-mail: rica.nidelven.hotel@rica.no
Rate: 995 NOK (125 €)
When booking your room please refer to: **04/06/enova/05**.

Contact information for additional hotels:

P-hotels
Nordregate 24
N-7010 Trondheim
Phone: +47 73 80 23 50
Fax: +47 73 80 23 51
Mail: post@p-hotels.no
Rate: 595 NOK (75 €)

Munken Hotel
Kongens gt. 44
N-7012 Trondheim
Phone: +47 73 53 45 40
Fax: +47 73 53 42 60
Mail: munken.hotell@munken.no
Rate: 725 NOK (90 €)

Scandic Nedre Elvehavn
Beddingen 1
7014 TRONDHEIM
Phone: +47 21 61 46 00
Fax: +47 21 61 46 11
Mail: nedreelvehavn@scandic-hotels.com
Rate: 940 NOK (120 €)

[Radisson SAS Royal Garden Hotel](#)
Kjøpmannsg. 73
N-7010 Trondheim
Phone: +47 73 80 30 00
Fax: +47 73 80 30 50
Mail: sales.trondheim@radissonsas.com
Rate: 1395 NOK (175 €)

Getting to Trondheim

Trondheim Airport has hourly departures to Oslo, and a direct connection to Copenhagen and Amsterdam. Trains run several times a day to Oslo, and the daily departure of the express coastal steamer Hurtigruta brings you either south to Bergen or north to the North Cape.

The airport shuttle runs a continuous service (after every arrival) from Trondheim Airport Værnes to the city centre of Trondheim. The ride takes about 40 minutes. Your stop should be the Radisson SAS Royal Garden Hotel. The fare is NOK 70.

Taxi from Trondheim Airport: TrønderTaxi and NorgesTaxi both have fixed fares from the airport to the city centre of Trondheim. The fares range from NOK 400-800 depending on the number of passengers.

Getting to the Rica Nidelven Hotel

The Airport buss stops at Hotel Royal Garden the next door hotel to Rica Nidelven Hotel. Continue in the same direction as the buss and the Rica Nidelven Hotel will appear on the right after crossing a small bridge.

Weather conditions in Norway in April

Trondheim has a costal climate and rapid changing weather conditions throughout the whole year. April is early spring in Trondheim. To check on weather conditions in Trondheim right now, please see [weather forecast](http://met.no/sor-trondelag/index.html) from the Norwegian Meteorological Institute: <http://met.no/sor-trondelag/index.html>.

Registration

There is no registration fee. However, we kindly ask you to fill in the registration form on the following page

IEA Bioenergy

Task 38 – Greenhouse Gas
Balances of Biomass and
Bioenergy Systems

Task 40 – Sustainable International
bioenergy Trade: Securing Supply
and demand



A workshop organised by IEA Bioenergy Task 38 and Task 40
in Trondheim, Norway, April 5-6, 2006

Registration Form

The deadline for registration is 15 March 2006

Please return this form by mail or fax to the address given below as soon as possible.

ima@enova.no

Enova

Tel: +47-73-190430

Fax: +47-73-190431

Contact person: Inga Marit Grimstad

- I will attend the workshop on 5 April 2006
- I will attend the workshop dinner on 5 April 2006
- I will attend the excursion on 6 April 2006
- Special requirements:

- I cannot participate in the Conference but would like to be informed about its outcome

Name:.....

Field of work:.....

Institution:.....

Address:.....

Telephone:.....

Fax:.....

E-mail:.....