

Program for the T30, T 31 & T40 workshop 30.11-3.12. 2005, Campinas, Brazil

Program of the workshop & Business forum on Sustainable biomass production for the world market

Organised by:

**Task 40 *Sustainable Bio-energy Trade; securing Supply and Demand
with***

University of Campinas – SP, Brazil

and

Task 30 *Short Rotation Crops for Bio-energy Systems*

Task 31 *Biomass production for Energy from Sustainable Forestry*

under the Bioenergy Agreement of the International Energy Agency

IEA Bioenergy



Date: November 30 – December 3, 2005

The meeting is preceded by the internal IEA Task 40 meeting on Monday – Tuesday 28-29th November which is for Task members and observers only.

Location: University of Campinas, Campinas – Sao Paulo, Brazil.

Background and scope of the meeting.

Various Tasks active within the IEA have already raised the issue of international biomass trade and related subjects indicating how important such matters are to the future of bio energy as a whole. 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. A growing number of market operators are strongly involved or interested in the bio-energy trade. In addition, various international organizations and NGO’s are exhibiting an increased level of interest in the concept of international bio energy trade.

By means of the international platform of the IEA working co-operatively with industrial organisations, governmental bodies and NGO’s, this combined task 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.

Objectives of the meeting:

This workshop, organized jointly between IEA Bio-energy Task 40 and IEA Bioenergy Tasks 30 and 31, focuses on the business experience and perspectives for biomass trade and export, the (ecological) impacts of large-scale biomass production and how sustainable biomass production for the world market can be secured.

With contributions from business (producers, traders, buyers), science (impacts, future possibilities for biomass production), policy and institutions (on criteria, certification and strategy) the event aims to:

1. Highlight business opportunities for sustainable international bio-energy trade and address key barriers in this respect.
2. How large-scale sustainable biomass production for an emerging world market can be realized by understanding the impacts of various biomass production systems.
3. How ongoing market development can be combined with a sustainable growth of biomass production capacity.

The outcomes of the meeting should contribute to formulating strategic advice, highlight opportunities and formulate prioritize policy actions and RD&D needed to support developments described.

IEA Bioenergy

Workshop & Business Forum on Sustainable biomass production for the world market

Day one (Wednesday 30th November)

Setting the scene (chair: Andre Faaij)

- 9:00** Arnaldo Walter, University of Campinas; Word of welcome and scope of the meeting
- 9:15** André Faaij, Task Leader IEA Task 40, The Netherlands
Word of welcome and scope of the meeting
- 9:30** José Roberto Moreira, CENBIO
The Importance of Bio-Energy for the World Development and Sustainability
- 10:00** *Coffee break*
- Ecological impacts of large scale biomass production systems and securing sustainability of biomass production
- 10:30** Simone Rose, FAO
Key elements to assess sustainability of bioenergy projects
- 11:00** Marie Holmlund, UNEP
Risk assessment in the bioenergy sector
- 11:30** Olivier Combe, UNCTAD
Potential of liquid biofuels for developing countries: the rationale of the UNCTAD biofuels initiative
- 12:00** Discussion
- 12:30** *Lunch*
- Short Rotation Crops and Sustainable Forestry (IEA Bioenergy Task 30 & 31)
(Chair first part: Jim Richardson, chair second part: Theo Verwijst)
- 14:00** Theo Verwijst, Agricultural University Sweden, Task 30, Sweden
Overview of development of sustainable SRC systems to date
- 14:30** Laércio Couto, Task 30, Brazil
Recent experience with large scale SRC systems
- 15:00** *Coffee break*
- 15:30** Jim Richardson, IEA Bioenergy Task 31, Canada
Sustainable forest management and industrial scale production of biomass for energy in the context of forest certification
- 16:00** Tat Smith, University of Toronto, Task 31, Canada
Conceptual framework for environmental sustainability of forest bioenergy production schemes
- 16:30** Rolf Björheden, Växjö University, Task 31, Sweden
Biofuel trade in practice: wood pellet trading and certification issues
- 17:00** Discussion
- 18:00** *End of day program*



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Day two (Thursday 1st December)

A business forum on sustainable international bio-energy trade, specifically focused on Brazilian industry (chair : Arnaldo Walter)

- 9:00** Eduardo Pereira de Carvalho, CEO UNICA
Industrial perspective on expansion of ethanol production capacity for export in Brasil
- 9:30** Paulo Canabrava, Ethanol business division at Petrobras
Preliminary title: Developing the bio-ethanol market: the point of view of an oil company
- 10:00** Vitor Afonso Hoeflich, Embrapa Florestas / UFPR
Produção florestal sustentável de madeira para o mercado internacional: perspectivas e desafios
- 10:30** *Coffee break*
- 11:00** Luiz Augusto Horta Nogueira
Biodiesel in Brazil
- 11:30** Ronaldo Sampaio, BioCarbo
Large scale charcoal production to reduce CO₂ emissions and improve quality in the coal based ironmaking industry
- 12:00** Isaías de Carvalho Macedo, NIPE/Unicamp
Sustainability of sugar cane, sugar and ethanol production in Brazil
- 12:30** *Lunch*
- Biomass trading and buying (IEA bioenergy Task 40)
(chair Kees Kwant)
- 14:00** Christian Falkelius / Bo Hektor, TalOil, Task 40, Sweden
Synthesis report of the Task 40 country reports
- 14:30** Douglas Bradley, President Climate Change Solutions
Biomass in Canada- Development and Trade Options
- 15:00** Martin Junginger, Copernicus Institute, Task 40, The Netherlands
Developments in biomass use, trade, policy and sustainability in the Netherlands
- 15:30** *Coffee break*
- 16:00** Jeremy Woods, Imperial College, Task 40, UK
UK Bioenergy: indigenous demand and exotic supplies.
- 16:30** Julia Hansson, Chalmers University
Modelling future bioenergy production and trade flows in Europe
- 17:00** Jussi Heinimö, Task 40, Finland
International biofuels trade in Finland: current status and future prospects
- 17:30** *End of day program*
- Evening** *Conference diner (on invitation of task 40)*



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Day three (Friday 2nd December)

Ethanol production and trade (chair: José Roberto Moreira)

- 9:00** Luis Carlos Carvalho, Ministry of Agriculture
The importance of biofuels
- 9:30** Per Carstedt, BioAlcohol Fuel Foundation
Global development of ethanol as an energy commodity
- 10:00** Angelo Bressan Filho, Director of the Agroenergy program, Ministry of Agriculture
The agrienergy as an energetic option for the future
- 10:30** *Coffee break*
- 11:00** Henry Joseph, VW and ANFAVEA
Usage of ethanol in passenger cars
- 11:30** Bengt Lindner, Director liquid fuels, TalOil
Bio-energy Trade from a Company Perspective, special focus on Ethanol
- 12:00** Plinio Nastari, Datagro
O que falta para o desenvolvimento de um mercado mundial de etanol
- 12:30** *Lunch*

Continuation of the ethanol production and trade session (chair: Per Carstedt)

- 14:00** Jan Korpershoek, Vopak CEMEA
Ethanol Terminal Hub for Europe - flexible solutions for trade and import
- 14:30** Suani Teixeira Coelho, CENBIO
Brazilian sugarcane ethanol: lessons learned
- 15:00** Francis Johnson, Stockholm Environmental Institute
Bio-ethanol trade, sustainable development and economic competitiveness: challenges and opportunities for North-South-South collaboration
- 15:30** Ilan Kruglianskas, Agriculture and Environment Programme Coordinator, WWF Brazil
Bio-ethanol: Climate Benefits with Responsible Production
- 16:00** *Coffee break*
- 16:30** André Faaij (Copernicus Institute) and Arnaldo Walter (UNICAMP)
Findings of the meeting
- 17:15** Open discussion, suggestions for the process towards sustainability criteria and certification for large scale production of bio-ethanol geared for the global market
- 18:00** *End of day program*

Day four (Saturday 3rd December):

Visit to International Paper (to visit a eucalyptus plantation area), in Mogi-Guaçu, about 50 km from Campinas.