



# **STUDY TOUR FOR CAPACITY BUILDING**

## **BIOENERGY WEEK**

*18-23 March 2013*

**Brasília, Brazil**

## **Provisional Programme**

**Hosted by :**



Ministry of **External Relations**

Ministry of **Agriculture, Livestock and  
Food Supply**



**Supported by:**



## GBEP WGCB – Study tour for capacity building and training (AG3)

### Draft Program for the “Bioenergy Week” Brasília, Embrapa Agroenergy, 18 to 23 March 2013

Monday 18 March 2013	Tuesday 19 March 2013	Wednesday 20 March 2013	Thursday 21 March 2013	Friday 22 March 2013	Saturday 23 March 2013
<p>OPENING Welcome Speeches</p> <p>***</p> <p>Regional overviews Brazil Africa Americas Europe Asia</p>	<p>Environmental Pillar</p> <ul style="list-style-type: none"> <li>- GHG emissions (ind. 1)</li> <li>- LUC (ind. 8)</li> <li>- Water (inds. 5 and 6)</li> </ul> <p>Speakers will be invited to make cross cutting references on policy related examples</p>	<p>Social Pillar</p> <ul style="list-style-type: none"> <li>- Land tenure (ind. 9)</li> <li>- Food security (ind. 10)</li> <li>- Access to modern energy services (ind. 14)</li> </ul> <p>Speakers will be invited to make cross cutting references on policy related examples</p>	<p>Field Trip (Biodiesel Industry)</p>	<p>Economic Pillar</p> <ul style="list-style-type: none"> <li>- Productivity (ind. 17)</li> <li>- Training (ind. 21)</li> <li>- Diversity and Flexibility (ind. 22, 24)</li> <li>- Infrastructure and logistics (ind. 23)</li> </ul> <p>Speakers will be invited to make cross cutting references on policy related examples</p>	<p>CONCLUDING</p> <p>Policy lessons for the future</p> <ul style="list-style-type: none"> <li>- Recap on policy references from previous sessions Further examples</li> </ul>
Lunch	Lunch	Lunch	Lunch	Lunch	
<p>Bioenergy - state of the art</p> <p>Ethanol and bioelectricity Biodiesel Increasing bioenergy productivity through improved feedstocks and processes</p>	<p>Field Trip (Embrapa)</p>	<p>Family Agriculture and Rural Development</p> <ul style="list-style-type: none"> <li>- Poverty</li> <li>- Employment (ind. 12)</li> <li>- Income gen. (ind. 11)</li> <li>- Food security (ind.10)</li> </ul>	<p>Field Trip (Biodiesel Industry)</p>	<p>Funding opportunities Infrastructure/ logistics</p> <ul style="list-style-type: none"> <li>- Banks/funds</li> <li>- Private sector</li> </ul>	

## **Monday, 18th March 2013**

8:30 – 9:00 Registration of participants, welcome coffee

### **9:00 – 10:00 Opening Session**

- Welcome speeches - Ministries of External Relations (MRE), Agriculture (MAPA), Mines and Energy (MME)
- GBEP Co-Chair – Sustainability Indicators (Ambassador Mariangela Rebuá)
- GBEP Secretariat / FAO
- GBEP Co-Chairs of the Working Group on Capacity Building (WGCB)
  - Raffi Balian (USA, Department of State)
  - Ralph Brieskorn (NL)

### **10:30 – 12:00 Regional overviews**

Chair: Representative from MRE

- Bioenergy in Brazil (MME - Ricardo Dornelles, Director of the Department of Renewable Fuels)
- African perspectives on bioenergy (Representative from ECOWAS - John Yeboah)
- U.S.-Brazil Memorandum of Understanding to Advance Cooperation on Biofuels - Cooperation Activities in Central America and the Caribbean (Dr. Natasha Vidangos, State Department and Emerson Kloss, Itamaraty)
- The role of biofuels in the European Directives for renewable energy (Representative from the European Union – DG Energy)
- Asian overview on the production and use of bioenergy (Representative from Indonesia)

### **12:00- 12:30 Round table discussion and conclusions**

12:30 – 14:00 Lunch

### **14:00 – 18:00 State of the art in feedstock production and bioenergy conversion processes**

Chair: Representative from MAPA – Cid Caldas, Director of Sugarcane and Agroenergy

- Ethanol and bioelectricity in Brazil– Representative from CTC (Sugarcane Technology Center) – Dr. José Gustavo Leite, Superintendent
- Sustainability Aspects of Biodiesel Industry in Brazil – (Daniel Amaral, Representative from ABIOVE)

- Biodiesel in Colombia – Representative from FEDEPALMA/CENIPALMA – Dr. José Ignacio Sanz Scovino
- State of the art of biogas and biomethane in Italy - Guido Bonati, INEA
- Ethanol, food and feed from grain – Representative from ICM

15:30 – 16:00 Coffee break

- R&D in new feedstock and processes – Representative from Embrapa Agroenergy – Dr. Guy de Capdeville
- New feedstocks and conversion processes for increased bioenergy productivity – Representative from Solazyme
- R&D in new feedstock and processes – Representative from Europe (Wageningen University – The Netherlands) – Dr. Raoul Bino
- R&D in new feedstock and processes – Representative from IFAD/ICRAF – Vineet Raswant

17:30- 18:00 **Round table discussion and conclusions**

## **Tuesday, 19th March 2013**

8:30 – 12:30 **Environmental pillar**

Chair – Representative from EMBRAPA Agroenergy – Dr. Manoel Souza

GBEP indicators:

1. Life-cycle GHG emissions
  5. Water use and efficiency
  6. Water quality
  8. Land use and land-use change related to bioenergy feedstock production
- Water Footprint of Bioenergy (Rita Monteiro Marzullo - IEE/USP - Laboratory of Life Cycle Assessment of Energy Systems)
  - The importance of agroecological zoning (Cid Caldas, Director of Sugarcane and Agroenergy - representative from MAPA)
  - Natural resources use efficiency (Martina Otto, Representative from UNEP)
  - Productive capacity of the land and ecosystems (Representative from Embrapa – Project ABC – low carbon agriculture) – Dr. Eduardo Assad, Embrapa Informática Agropecuária

10:00 – 10:30 Coffee break

- Environmental legislation from the private sector perspective (representative from Raízen)
- International criteria and certification (Emerson Kloss, Representative from MRE)
- Talk 7 – To be defined (Representative from Vietnam, VACVINA)
- Life Cycle Analysis for improved feedstock conversion (Helena Chum, U.S. DOE National Renewable Energy Laboratory)

12:00 – 12:30 **Round table discussion and conclusions**

12:30 – 13:30 Lunch

13:30 – 17:00 **Field trip – EMBRAPA Cerrados**

### **Wednesday, 20th March 2013**

8:30 – 12:30 **Social pillar**

Chair: Representative from MDA – Francesco Pieri, International Adviser

GBEP indicators:

9. Allocation and tenure of land for new bioenergy production

10. Price and supply of a national food basket

14. Bioenergy used to expand access to modern energy services

- Biodiesel auctions and the Social Seal (Rodrigo Rodrigues, Casa Civil) - confirmed
- Access to modern energy services: the use of agro-industrial residues as a sustainable and reliable option (Prof. Suani T Coelho, PhD, Coordinator CENBIO/IEE/USP)
- Synergies between bioenergy and food production (Olivier Dubois - FAO)
- On-farm waste-to-energy for increased agricultural productivity (Dr. Gerard J. Ostheimer, USDA)

10:00 – 10:30 Coffee break

- Talk 5 – To be defined (André Novo, Representative from Embrapa Pecuária Sudeste)
- Talk 6 – To be defined (Representative from PANGEA)
- An overview of Palm production in Brazil: Petrobras experience (Representative from Petrobras Biocombustível) – João Augusto Araújo Paiva, Director of Agricultural Supply
- Representative from Addax/Sierra Leone or Mali Biocarburant

12:00- 12:30 **Round table discussion and conclusions**

12:30 – 14:00 Lunch

14:00 – 18:00 **Family agriculture and Rural Development**

Chair – Representative from FAO/GBEP

GBEP indicators:

11. Change in income

12. Jobs in the bioenergy sector

- Bioenergy and Smallholder Agriculture (Representative from IFAD/ICRAF)
- Participation of family agriculture in Brazil (André Machado, Representative from MDA)
- Family agriculture in biodiesel production with palm oil (Juliano Mendes, FGV)
- Improved forest management practices in Uruguay for sustainable wood bioenergy (Representative from Weyerhaeuser)

15:30 – 16:00 – Coffee break

- Talk 5 – To be defined (Representative from Africa)
- Talk 6 – To be defined (Representative from Central America)
- Talk 7 – To be defined (Representative from Asia)

17:30- 18:00 **Round table discussion and conclusions**

### **Thursday, 21th March 2013**

07:30 – 17:00 Field trip – biodiesel industry in Anápolis – GO

### **Friday, 22th March 2013**

8:30 – 12:30 **Economic pillar**

Chair – Representative from MME – Ricardo Dornelles

GBEP indicators:

17. Productivity

21. Training and re-qualification of the workforce

24. Capacity and flexibility of use of bioenergy

23. Infrastructure and logistics for distribution of bioenergy

- Productivity in the use of biomass to bioenergy (Representative from EMBRAPA – Dr. Manoel Souza)
- RenovAção Project – Eduardo Leão, Executive Director UNICA
- Talk 3 - Representative from Mercosur – Miguel Almada, Argentina

10:00 – 10:30 Coffee break

- Standards and specifications (Representative from INMETRO)
- Flexibility for biofuels use in the transportation sector (Representative from ANFAVEA, Henry Joseph)
- Brazilian Experience in Ethanol Fuel: Quality Aspects and Distribution Logistics (Representative from Petrobras, Walter Pereira Formosinho Filho)
- Representative from Abellon Clean Energy

12:00- 12:30 **Round table discussion and conclusions**

12:30 – 14:00 Lunch

14:00 – 18:00 **Funding opportunities**

Chair – Representative Representative from IFAD/ICRAF

- R&D for advanced biofuels (Representative from Brazilian Development Bank - BNDES, Artur Yabe Milanez, Department of Biofuels)
- African Development Bank (BAfD)
- “Programme for the Development of Alternative Biofuel Crops” (Representative from IFAD/ICRAF)

15:30 – 16:00 – Coffee break

- IDB support for bioenergy projects (Arnaldo Vieira de Carvalho, IDB)
- ESMAP - World Bank
- KfW Bankengruppe (Edson Furuiti – Senior Investment Manager DEG)
- Business plans based on integrated bioenergy value chain development (Representative from CleanStar)

17:30- 18:00 **Round table discussion and conclusions**

**Saturday, 23th March 2013**

9:00 – 12:30 **Conclusions**

Chair – MRE (Ambassador Mariangela)

- Talk 1 – To be defined (Representative from MAPA)
- Talk 2 – To be defined (Representative from EMBRAPA)
- Talk 3 - To be defined (Representative from FAO/GBEP)

10:30 – 11:00 Coffee break

- Talk 4 – To be defined (Representative from MDA)
- Talk 5 – To be defined (Representative from MME/EPE)
- Talk 6 - To be defined (Representative from IFAD/ICRAF)

12:00 – 12:30 Closing session

WGCB Co-Chairs