



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 Working Group on Capacity Building (WGCB)
Study tour for capacity building and training (Activity Group 3)
Regional Workshops on Sustainable Modern Bioenergy (Activity Group 1)

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

Monday, 18th March 2013

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

9:00 – 10:00 Opening Session

- Welcome speeches - Representatives from the Government of Brazil
- GBEP Co-Chair – Sustainability Indicators (Ambassador Mariangela Rebuá, Brazil)
- GBEP Secretariat (Maria Michela Morese, Executive Secretary GBEP)
- GBEP Co-Chair of the Working Group on Capacity Building – WGCB (Raffi Balian, Department of State, USA)

10:30 – 12:00 Regional overviews

Chair: Ambassador Mariangela Rebuá, Ministry of External Relations (MRE), Brazil

- Bioenergy in Brazil (Ricardo Dornelles, Director of the Department of Renewable Fuels, Ministry of Mines and Energy, MME)
- African perspectives on bioenergy (John Yeboah, ECREEE/ECOWAS)
- U.S.-Brazil Memorandum of Understanding to Advance Cooperation on Biofuels - Cooperation Activities in Central America and the Caribbean (Dr. Natasha Vidangos, USA Department of State and Emerson Kloss, MRE Brazil)
- The role of biofuels in the European Directives for renewable energy (Arnold Jacques de Dixmude, Adviser of Environment, Climate Change and Sustainable Development of the European Union Delegation in Brazil)
- Asian overview on the production and use of bioenergy (Maslan Lamria, Section Chief for Bioenergy Technic and Environment, Ministry of Energy and Mineral Resources, 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: Cid Caldas, Director of Sugarcane and Agroenergy, Ministry of Agriculture (MAPA), Brazil

- Ethanol and bioelectricity in Brazil (Suleiman Hassuani, CTC - Sugarcane Technology Center)
- Sustainability Aspects of Biodiesel Industry in Brazil – (Daniel Amaral, ABIOVE)
- Biodiesel in Colombia (Representative from Colombia)

- Ethanol, food and feed from grain (David Vander Griend, CEO, ICM)

15:30 – 16:00 Coffee break

- R&D in new feedstock and processes (Dr. Guy de Capdeville, Embrapa Agroenergy)
- Innovating Our Way to a Sustainable Global Bioeconomy: Unlocking the Power of Microalgae (Alda Lerayer, Director of Scientific and Regulatory Affairs, Solazyme)
- Biomass Resource Assessment tools (Representative from Conservation International)

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

Tuesday, 19th March 2013

8:30 – 12:30 **Environmental pillar**

Chair: Dr. Manoel Souza, EMBRAPA Agroenergy

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, Brazil)
 - The importance of agroecological zoning (Cid Caldas, Director of Sugarcane and Agroenergy, MAPA, Brazil)
 - Natural resources use efficiency (Martina Otto, UNEP)
 - Productive capacity of the land and ecosystems (Celso Manzatto, Embrapa Meio Ambiente)

10:00 – 10:30 Coffee break

- Raizen's approach to the Agro-environmental Protocol (Davi Alencar Araújo, Raízen)
- International criteria and certification (Emerson Kloss, MRE, Brazil)
- Evaluating the environmental sustainability of woody biomass production (Dr. Bob Bilby, Weyerhaeuser)
- GHG Life-cycle analysis (Marcelo Moreira, ICONE)

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: Francesco Pieri, International Adviser, Ministry of Agricultural Development (MDA), Brazil

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)
- 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, Brazil)
- Links 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

- The Sugarcane-biofuel Expansion and Dairy Farmers's Responses in Brazil (André Novo, Embrapa Pecuária Sudeste)
- An overview of Palm production in Brazil: the experience of Belém Brazil Bioenergy in the Amazon (Antônio Gonçalves Esmeraldo, CEO and Agricultural Supply, Belém Brazil Bioenergy)
- Building Farmer's income and safety nets while securing local energy supply in West Africa (Idrissa Ba, 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 – Olivier Dubois, FAO

GBEP indicators:

11. Change in income

12. Jobs in the bioenergy sector

- Participation of family agriculture in Brazil (André Machado, MDA, Brazil)
- Family agriculture in biodiesel production with palm oil (Juliano Mendes, Fundação Getúlio Vargas, FGV)
- Sustainable bioenergy supply chains – The U.S. perspective (Kristen Johnson, U.S. Department of Energy)

15:30 – 16:00 – Coffee break

- The experience in Ghana (Eric Ofori-Nyarko, Energy Commission, Ghana)
- The experience in Jamaica (Dr. Betsy Bandy, Ministry of Science, Technology, Energy and Mining, Jamaica)
- The experience in Guatemala (Ing. Luis Fernando Velasquez Pottier, Ministry of Energy and Mines, Guatemala)
- The experience in Vietnam (Le Hong Quang, Ministry of Industry and Trade, Vietnam)

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: Ricardo Dornelles, MME, Brazil

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 (Dr. Manoel Souza, EMBRAPA)
- RenovAção Project (Eduardo Leão, Executive Director UNICA)
- Development of bioenergy in Argentina: Economic aspects (Miguel Almada, Argentina)
- Creating drop-in fuel value chains (Adilson Liebsch, Amyris)

10:00 – 10:30 Coffee break

- Standards and specifications (J. Kuster Gustavo de Albuquerque, Head of the Division of Conformity Assessment Programs, INMETRO)
- Flexibility for biofuels use in the transportation sector (Henry Joseph, ANFAVEA)
- Brazilian Experience in Ethanol Fuel: Quality Aspects and Distribution Logistics (Vinícius Neves Bueno, Petrobras)
- Abellon's Integrated Bioenergy Model (Tarun Rokadiya, Abellon CleanEnergy)

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

12:30 – 14:00 Lunch

14:00 – 18:00 Funding opportunities

Chair: Raffi Balian, Department of State, USA

- R&D for advanced biofuels (Artur Yabe Milanez, Department of Biofuels, Brazilian Development Bank - BNDES)
- OAS support for bioenergy projects (Ruben Contreras, OAS)
- IDB support for bioenergy projects (Marco Aurélio Lenzi Castro, IDB)

15:30 – 16:00 Coffee break

- The experience of the World Bank (Gregor Wolf, World Bank)
- The experience of KfW Bankengruppe (Edson Furuiti, Senior Investment Manager DEG)
- Creating a value chain to meet national needs (Stefan Mård, Senior Advisor, Sustainable Development, CleanStar Mozambique)

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

Saturday, 23th March 2013

9:00 – 12:30 Conclusions

Chair: Ambassador Mariangela Rebuá, MRE

- *State of the art in feedstock production and bioenergy conversion processes* – Cid Caldas, Director of Sugarcane and Agroenergy, MAPA, Brazil
- *Environmental pillar* – Dr. Manoel Souza, EMBRAPA Agroenergy
- *Social pillar* – Francesco Pieri, International Adviser, MDA, Brazil

10:30 – 11:00 Coffee break

- *Family agriculture and Rural Development* - Olivier Dubois, FAO
- *Economic pillar* – Ricardo Dornelles, MME, Brazil
- *Funding opportunities* - Raffi Balian, Department of State, USA

12:00 – 12:30 **Closing session**

Corrado Clini, GBEP Chair

Mariangela Rebuá, GBEP Co-Chair