





Bio-energy and CCS (BECCS): Options for Brazil

Agenda

University of Sao Paulo

12-14 June 2013

Day 1 – Wednesday, 12 June Optional site visit to biorefinery in State of Sao Paulo

Day 2 - Thursday, 13 June

Auditorium of the Institute of Astronomy Geophysics and Atmospheric Sciences http://www.iag.usp.br/

9:00-10:00	Welcome note
	José Moreira, Professor, Institute of Electro technology and Energy, University of Sao Paulo (USP), Brazil
	Wolf Heidug, Senior Analyst, International Energy Agency (IEA), France
	Opening Remarks
	 Mr. Wojcicki, Ministry of Mines and Energy (MME), Brazil (TBD, Requested)
	 José Goldemberg, Professor, Centro Nacional de Referência em Biomassa, University of Sao Paulo (USP), Brazil
	 José Miranda Formigli Filho/Paulo Negrais Seabra/Angela Martins De Souza, Petrobras, Brazil (TBD, Requested)
	 Nebojsa Nakicenovic, Deputy Director, International Institute for Applied Systems Analysis (IIASA), Austria

10:00-11:00	Establishing the global context: Bio-energy and CCS: why it is important
10.00-11.00	and where do we stand?
	Session Chair: Wolf Heidug, IEA
	Bio-energy, CCS and BECCS and global energy and climate context -
	Dennis Best, Energy Policy Analyst, IEA
	Negative emissions potential for BECCS - Results from the Negative Property Propert
	Laxenburg Workshop - Sabine Fuss, Economist, Mercator Research
	Institute on Global Commons and Climate Change (MCC), Germany
	Negative emissions potential for BECCS - Results from the Indonesia
	Workshop - Dr. Agung Wicaksono, Advisor to Head of President's
	Delivery Unit (UKP4) and Assistant Professor at Bandung Institute
	of Technology (ITB) Indonesia
l	 The REDD-+BECCS connection, assessing global potentials and
	sustainability - Florian Kraxner, Deputy Leader, Ecosystems
	Services Program (ESM), IIASA, Austria
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11:00-11:15	Coffee Break BECCS in Practice Lessons and Pilot Demonstration
11:15-12:15	
	Session Chair: Henrik Karlsson, President & CEO, Biorecro, Sweden
	 Overview of global BECCS projects – Jessica Morton, Capacity
	Development Advisor, Global CCS Institute, Australia
	 Lessons Learned - A perspective from CCS project developers
	a focus on storage – <i>Chris Greig</i> , Director of Energy Initiative ,
	University of Queensland, Australia
	 Biomass-Energy R&D and CCS Status in Japan – Atsushi
	Kurosawa, Director, Global Environment Program, Research and
	Development Division, The Institute of Applied Energy (IAE), Japan
12:15-13:15	Lunch
13:15-14:30	Establishing the Brazilian context: Climate change, biomass and CCS: the
	Brazilian situation
	Session Chair: José Moreira, Professor, University of Sao Paulo (USP)
	 Policies on climate change, biomass and CCS – Joachim Seabra,
	NIPE, Brazil
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	Classifying Biomass sources the experience of the Brazilian Ethanol Industry, André M. Massay, Institute for International Trade
	Industry - André M. Nassar, Institute for International Trade
	Negotiations (ICONE-BRAZIL), Brazil
	 Private sector activities and strategies – Paulo Soares, Planning
	Director, DEDINE, Brazil
	 Brazil's storage capacity - Marcelo Ketzer, Carbon Storage Research Centre, PCU, Brazil
14:30 – 15:45	Key Sectors, Challenges and Economics
	Session Chair: Dennis Best, IEA
	Coston Chair Schill Solly IEA

	 Applying BECCS: Sectoral Overview – Michiel Carbo, Energy Centre of the Netherlands Examining costs and criteria for near term BECCS pilots - Robert Williams, Senior Research Fellow, Princeton University, USA Roadmap for Bio-CCS in Nordic Countries and the European Perspective to Large Scale Deployment - Antti Arasto, Senior Scientist, Team Leader Fuel Conversion, Energy Concepts, VTT Technical Research Institute of Finland Examining Costs - A Case Study: (The Indonesia Case) – Sabine Fuss, MCC
15:45 – 16:00	Coffee break
16:00 – 17:30	The Policy Dimension of Sustainable Feedstock Supply and REDD+ Session Chair: Florian Kraxner, IIASA
	 REDD+ – Policy challenges - Raoni Rajao, Professor, Federal University of Minas Gerais, Brazil Best Practice in Forest and Feedstock management – Alan Jorge BOJANIC HELBINGEN, Food and Agriculture Organisation (FAO), Italy (TBD, Requested) Supply chain and Sustainability Issues - Michael Becker/Edegar de Oliveira, WWF-Brazil (TBD, Requested) Considering the Future Energy Mix and Political options for Brazil - Marcelo Leite, Science Journalist, Editor of Opinião Folha de Sao Paulo, Brazil
17:30 -18:00	Wrap-up and Consultation Day 1
19:00 – 21:00	Dinner hosted by IEA (Churrascaria)
Meeting room (Day 3 - Friday, 14 June of the Institute of Energy and Environment https://www.iee.usp.br/contato.html Review of Day 1 IEA and/or IIASA
9:15-10:30	Policies and incentives
	Session Chair: Wolf Heidug, IEA
	 BECCS in practice and perspectives on policy and incentives for near term demonstration – Rob Finley, Illinois State Geological Survey (IGS), USA (Remote Presentation) UNFCCC Funding mechanisms: international, bilateral and multilateral - José Domingos Gonzales Migues, Ex-coordinator for Brazilian CDM Projects / Petrobras, Brazil UNIDO's technical cooperation on bioenergy application and biofuel screening tool – Kentaro Aoki, Biomass and Bioenergy Expert, Rural and Renewable Energy Unit, Energy and Climate Change Branch, United Nations Industrial Development

	Organization (UNIDO) BECCS in Brazil –perspectives on development - Gustavo Luedemann, General-Coordinator on Global Climate Change, Interministerial Commission on Climate Change, Ministry of Science, Technology and Innovation, Brazil
10:30-10:45	Q&A
10:45-11:00	Coffee break
11:00-12:00	Identifying opportunities and challenges Session Chair: Dennis Best, Energy Policy Analyst, IEA • Defining three Opportunities? (Discussion led by USP) • What are three challenges? (Discussion Led by IEA) • What are the three Synergies? (Discussion led by IIASA)
12:00-13:00	Lunch
13:00-14:00	 Break out session (Chair/Moderator TBD) Small group develop potential solutions to challenges identified in previous session—3 groups
14:00-14:30	Small group report on findings to plenary
14:30-14:45	Coffee break
14:45-15:45	Panel on Developing an action plan for BECCS in Brazil Panel Chairs: Jose Moreira and Sergio Pacca, USP
15:45-16:00	Wrap up and closing remarks