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Biomass Trade & Power *Americas*

23-25 February 2011 / Atlanta

“Pushing Forward Biomass Utilization & International Trade”

Knowledge Partner & Endorser

IEA Bioenergy

Task 40: Sustainable International
Bioenergy trade

Center of Innovation for Energy
European Biomass Industry Association EUBIA
U.S. Environmental Protection Agency (Office of Air
Quality Planning & Standards)
Oglethorpe Power Corp.
Georgia Power Corporation
University of Utrecht
Peterson Control Union Group
Essent Business Development
Ontario Power Generation
KEMA Netherlands Ltd

Canadian Bioenergy Association (CANBIO)
Global Green Engineered Fuels, LLC
BRUKS Rockwood Inc.
Rollcast Energy, Inc.
Process & Storage Solutions
Kinder Morgan Terminals
Georgia Biomass, LLC
CEMEX
Jordan Forest Products, LLC
USDA Farm Service Agency
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Program topics, speakers and schedules published herein are confirmed as at 07/01/11. Please refer to the event's timetable page at www.cmtevents.com/main.aspx?ev=110204 for the most up-to-date information.

Day 1 - Wednesday, 23 Feb 2011

- 07:30 Registration & Coffee
- 08:30 Opening Address by:
Governor Nathan Deal of Georgia (Invited)
- 08:45 Chairman's Welcome & Remarks
Ms. Jill Stuckey, *Director*
Center of Innovation for Energy
- Regulatory Directions & Commercial Perspectives*
- 08:55 **US' Energy Policy on Biomass Utilisation & Impact of US Renewable Energy Policy on Exports**
Cathy Zoi
Acting Undersecretary of Energy (Invited)
- 09:15 **Latest Updates & Issues Arising from EU Biomass Regulatory Framework**
Ms. Eibhilin Manning, *Policy Director*
European Biomass Industry Association EUBIA
- 09:35 **EPA Rules for Biomass Power Generation (e.g. IB MACT)**
Jim Eddinger,
U.S. Environmental Protection Agency
(Office of Air Quality Planning & Standards)
- 09:55 **Harmonizing the Regulatory, Utility & User Relationship – Gaining Support from Ground Level**
Richard Clark, *New Technologies Manager, Regulatory & Technical Services,*
Oglethorpe Power Corp.
- Ronnie Just, *Environmental Affairs Manager*
Georgia Power Corporation
- 10:40 Discussion followed by Networking Coffee
- 11:20 **International Biomass Trade Flows, with Special Focus on Wood Chips & Pellets**
- Key drivers for market growth
- Prof. Andre Faaij, *Task Leader, IEA Bioenergy Task 40*
University of Utrecht

- 11:40 **Development of Sustainability Criteria for Biomass Export to Various EU Countries**
Dr. Martin Junginger
University of Utrecht
- 12:00 **Sustainable Certifications: The Practicalities, Constraints & Challenges**
Mieke Vandewal, *Marketing Manager Fuels*
Peterson Control Union Group
- 12:30 Discussion followed by Networking Lunch
- 13:45 Afternoon's Chairman
Peter-Paul Schouwenberg, *Senior Officer - Regulator Affairs*
Essent's Corporate Affairs
Essent Business Development
- 13:50 **Conversion & Operational Experience on Large Scale Co-Firing of Biomass & Expectations on Imports of Wood Pellets from Americas**
- Wood chips versus wood pellets for co-firing - pros & cons
 - Pre-processing & blending of fuel feedstocks
- Roger Miesen, *Director, Essent Production*
Essent Business Development
- Ms. Jane Todd, *OPG Program Manager*
Ontario Power Generation
- Ronald Meijer, *Managing Principal*
Clean Fossil Power
KEMA Netherlands Ltd
- 14:45 **Canadian Biomass/Pellets Productions & Exports - How Can They Compete or Complement with US Biomass/Pellets?**
Douglas Bradley, *President*
Canadian Bioenergy Association (CANBIO)
- 15:20 Discussion followed by Networking Tea
- 15:50 **Latest Developments in Southeast Biomass Value Chain: Biomass Raw Material to Woodfuel, Power Conversion & Distribution**
- a) **Raw Material Selection & Logistics**
E. Gay Mayfield, *Partner*
Global Green Engineered Fuels, LLC

- b) **Raw Material Processing (Pre-Manufacturing)**
Desmond Smith, *Vice President*
BRUKS Rockwood Inc.
- c) **Biomass Power Generation**
John Campbell, *Managing Director,*
Rollcast Energy, Inc.
- d) **Wood Fuel Pellet Manufacturing**
Donald H. Land, *Partner*
Process & Storage Solutions
- e) **Wood Fuel Pellet Logistics (Finished Products)**
E. Gay Mayfield
- f) **Marine Terminal Export Support**
Val Schwec, *Commercial Director, Southeast Region*
Kinder Morgan Terminals
- g) Panel Discussion
Moderated By: E. Gay Mayfield
- 17:05 **Wood Fuel Pellet Value Chain Management**
Sam Kang, *Chief Financial & Operational Officer*
Georgia Biomass, LLC
- 17:25 **Rise of Bioenergy in the Southeast: Importance to Integrate the Emerging "Biomass to Energy" Production with Existing Co-Generation Operations Supporting the Energy Needs**
- a) **Non-Wood Manufacturing Operations**
Robert Stamback, *Plant Manager*
CEMEX
- b) **Wood Manufacturing Operations**
Robert B. Jordan, *President*
Jordan Forest Products, LLC
- 18:00 Discussion followed by End of Day One
- 18:05 Networking Cocktail & Reception

Day 2 - Thursday, 24 Feb 2011

08:30 Chairman's Remarks
Prof. Andre Faaij

08:35 Project Financing & Funding Options to Support Capital/Operational Needs in the Biomass Value Chain

a) **Updates on BCAP and How it Can Boost US' Bioenergy Production and Domestic Usage Growth**
Jonathan Coppess, Administrator,
co-author of BCAP Program
USDA Farm Service Agency

b) **Financing Options and Strategic Use of Industrial Revenue Bonds**
Capital Investment (Equity)
Senior Representative
Atlantic Power

Debt Financing
Ms. Megan Browning, Senior Vice President
George K. Baum & Company

Industrial Bonds
Daniel M. McCrae, Partner
Seyfarth, Shaw Attorneys, LLP

c) Panel Discussion
Moderated By: Daryn Beringer, Principal
Global Green Engineered Fuels, LLC

Handling (Pretreatment) & Logistics

09:45 **Logistics Setup (Transportation, Storage & Handling) - Challenges, Bottlenecks & New Concepts**
J Richard Hess, Agriculture Engineer
Idaho National Laboratory Biological Sciences Department

Page Siplon, Executive Director
Georgia Logistics Innovation Center

10:15 **Freight Market Outlook & Economics of Ocean Shipping between US to Europe**
Marcel Gorris, Commercial Manager Bulk Logistics
Port of Amsterdam

10:50 Discussion followed by Networking Coffee

11:10 **Optimizing Biomass Resources - Power & Ethanol Co-location**
Jason M. Blake, Biomass NA Marketing Manager
Novozymes North America

11:20 **Projection on Future Demand for Lignocellulosic (Biomass) Feedstock for 2nd Generation Biofuels Production & Assessing its Impact on Biomass Prices & Applications (e.g. Power Generation)**
Ms. Anne Rahikainen, Director
Bioenergy Services
RISI

11:40 **Merits of Biomass Torrefaction Compared to Existing Densification Technologies**

12:00 **Energy Crops: From Crop to Energy Products, for Domestic Use & Exports**

a) **Value Proposition & Case Studies**
Ms. Saritha Peruri, Manager of Business Development
Ceres, Inc.

b) **Utilities' Perspective Towards this Emerging Biomass for Energy Applications**
Dean Tiessen, President
New Energy Farms

c) **Meeting the Needs for the Southeast: Prospects of Energy Crops Rotation in the Georgia (or Southeast) Agricultural Portfolio**
Peter Germishuizen, Director of Technology
Lewis Taylor Farms Incorporated

13:00 Final Discussion followed by
Closing Lunch and End of Conference

You will network with

- Biomass/Pellets Producers, Traders & Importers
 - Biofuels Producers Importers
 - Utilities, Power, Distributed Power
- Agriculture/Forestry/Plantation Companies
 - Commodity Brokers & Analysts
 - Wood Processing Companies
- Shipping & Brokers (Dry Bulk, Biomass/Pellets)
 - Government/Regulators • Pulp & Paper
 - Pelleting Equipment/Technologies
 - Biomass Pretreatment Technologies
 - Enzymes/Catalysts Providers
 - Trade/Project Financing Institutions
 - Specification & Benchmarking
 - Biomass/Bio-Power Associations
- Emission/CDM Traders • Environmental Engineers

Post Conference Workshop: Biomass Properties, Processes & Conversion to Energy Sources

Conducted & Led by: *KEMA*

Ronald Meijer, Managing Principal, *Clean Fossil Power*
Chip O'Donnell, Vice President, *Power Generation Services*
Robert Welch, Vice President, *Sustainable Generation Solutions*

(Part 1)

13:45 Registration

14:00 Workshop Overview - Objectives and Program

14:15 **Biomass Fuels for Power: Potential Biomass Based Fuel Sources as Candidates for Power Generation**

- Biomass characteristics - chemical, physical
- Considerations for different markets

15:15 **Biomass Fuel Condition: Review of All Available Technologies to Condition Biomass in Preparation for Conversion to Energy**

- Densification
- Torrefaction
- Gasification
- Desiccation and Storage

16:15 **Biomass as a Fuel Summary Statements & Feedback**

- Next Steps and follow up with feedback report
- Tomorrow's objective around fuel conversion

17:30 Adjourned – End of Workshop Session 1

Day 3 - Friday, 25 Feb 2011

(Part 2)

08:30 **Biomass Fuel Handling**

- Transportation
- Storage
- Injection points

09:45 **Combustion Aspects**

- Injection points
- Proportion (%) co-firing and combustion modifications
- Complete fuel switching
- Heat rate calculations
- Combustion controls

10:45 **Flue Gas Characterization and Treatment**

- SCR catalyst effects

11:45 **Co-firing Example**

- Technical process steps
- Economic process steps
- Implementation example

12:45 Final Discussion, Closing Remarks & End of Workshop

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~ UPCOMING EVENTS ~

3rd world grains trade SUMMIT

SINGAPORE / 16-17 February 2011

"Managing Price Volatility & Production Risks"
<http://www.cmtevents.com/aboutevent.aspx?ev=110201>

2nd Biomass Trade & Power

ROTTERDAM / 16-18 March 2011

"Overcoming Hurdles of Raw Materials"
Economics, Logistics and Environmental Concerns
<http://www.cmtevents.com/aboutevent.aspx?ev=110306>

BiObasedChemAsia

Next Generation Biobased Building Blocks

SHANGHAI / 14-15 April 2011

"Building Synergies in Markets,
 Feedstocks and Technology"

<http://www.cmtevents.com/aboutevent.aspx?ev=110416>

Baltic BiPOWER

GDANSK, POLAND / 15-16 June 2011

"Efficient & Green Solutions in
 Biomass Power & Heat Generation"

<http://www.cmtevents.com/aboutevent.aspx?ev=110517>

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Pushing Forward Biomass Utilization & Exports

CMT's **Biomass Trade & Power Americas** aims to push forth clearer directive in the sustainable utilisation of biomass in the US, Canada and South America both in the energy sector, as well as developing an export-ready commodity, and to fast-track existing commercial efforts in the biomass value chain. The conference provides clarification on the raw material availability, trade and investment opportunities of Americas' "biomass (wood pellets) to power generation" value chain.

Reasons & Benefits of attending CMT's Biomass Trade & Power Americas:

- Seek clarification from US Department of Energy (DOE) on biomass utilization in energy/utilities sectors
 - Grasp current knowledge of the new programs and rulings from the actual authors
 - Utilities stakeholders' perspectives on challenges/opportunities in execution of biomass-based initiative
 - Evolving US & EU Biomass/Renewable Energy Policies & Impact on Exports
 - Latest updates on Sustainability Criteria & Certification Standards for Biomass Exports to Europe
 - Find out from European utilities on the expectation for wood pellets imports & experience in large co-firing
 - Unfold NEW Trade & Investment Opportunities in Southeast's biomass value chain
- Understand the Balancing Effort of the Emerging Bioenergy Industry with the Existing Wood Processing Sector in the Southeast
- Find out from Financing experts on criteria & funding options available for your projects
 - Insights on Freight market & Economics of Shipping from Americas to Europe
 - Evaluate and compare Wood Chips, Wood Pellets & Energy Crops for Export & Power generation
 - Find out how Energy Crops can be utilized economically in biomass power generation
 - Assess the benefits of Torrefaction amongst all other Pretreatment/Densification Technologies
 - Attain knowledge & experience sharing on Fuel Switching (e.g. Co-firing) & Pretreatment in the ONE day post conference workshop
 - Enjoy more than 10 hours of Interaction & Networking Opportunities with key stakeholders from the Americas' biomass value chain, from raw material, financing, processing, logistics, shipping and regulatory representatives, etc
- Be at this exciting event and make trade happen. CMT's **Biomass Trade & Power Americas** offers excellent opportunity to network with global players in one venue! Sign up with your team to enjoy group discount. Register online at www.cmtevents.com or email to delaine@cmtevents.com.sg.

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FEES

The full Registration Fee includes cost of all sessions, luncheon, coffee/tea & documentation.

	1 Person	3 or more* (from the same company)
Conference Fee	USD1,695	USD1,295 (MIN SAVINGS OF USD1200)
Both workshops (Part 1 on 24 Feb & Part 2 on 25 Feb)		
Fee for non conference attendee	USD1,095	
Fee for conference attendee	USD795	
Fee if Conference attendee sign up ONLY for		
Part 1 on 24 Feb	USD595	
Part 2 on 25 Feb	USD595	

* Terms and conditions apply.

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CONFERENCE VENUE

CMT has arranged special discounted room rate at USD 159 (Single / Double) + 15% Taxes per room per night excluding breakfast (subject to room & rates availability) for delegates at **Hotel Palomar Atlanta - Midtown**.

Please reserve your room with Central Reservations, quoting "CMT BIOMASS", providing full credit card number & expiry date to:

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Cancellations, Refunds & Transfers: A full refund will be promptly made for all written cancellations 3 weeks before the meeting. Thereafter, cancellations are not refundable. A substitute may be made at any time.