

Expert workshop on Combustion of Challenging Biomass Fuels

Jaap Koppejan



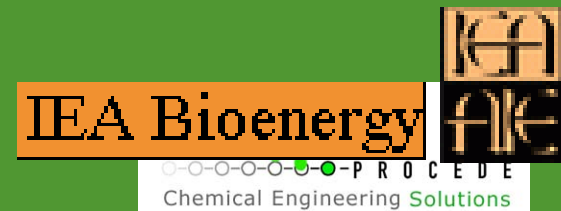
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Introduction to IEA Bioenergy ⁽¹⁾

- The IEA was founded to implement an international energy programme in response to the oil shocks.
- Activities are directed towards collective energy policy objectives of energy security, economic and social development, and environmental protection.
- Activities are set up under Implementing Agreements. There are 40 active Implementing Agreements.

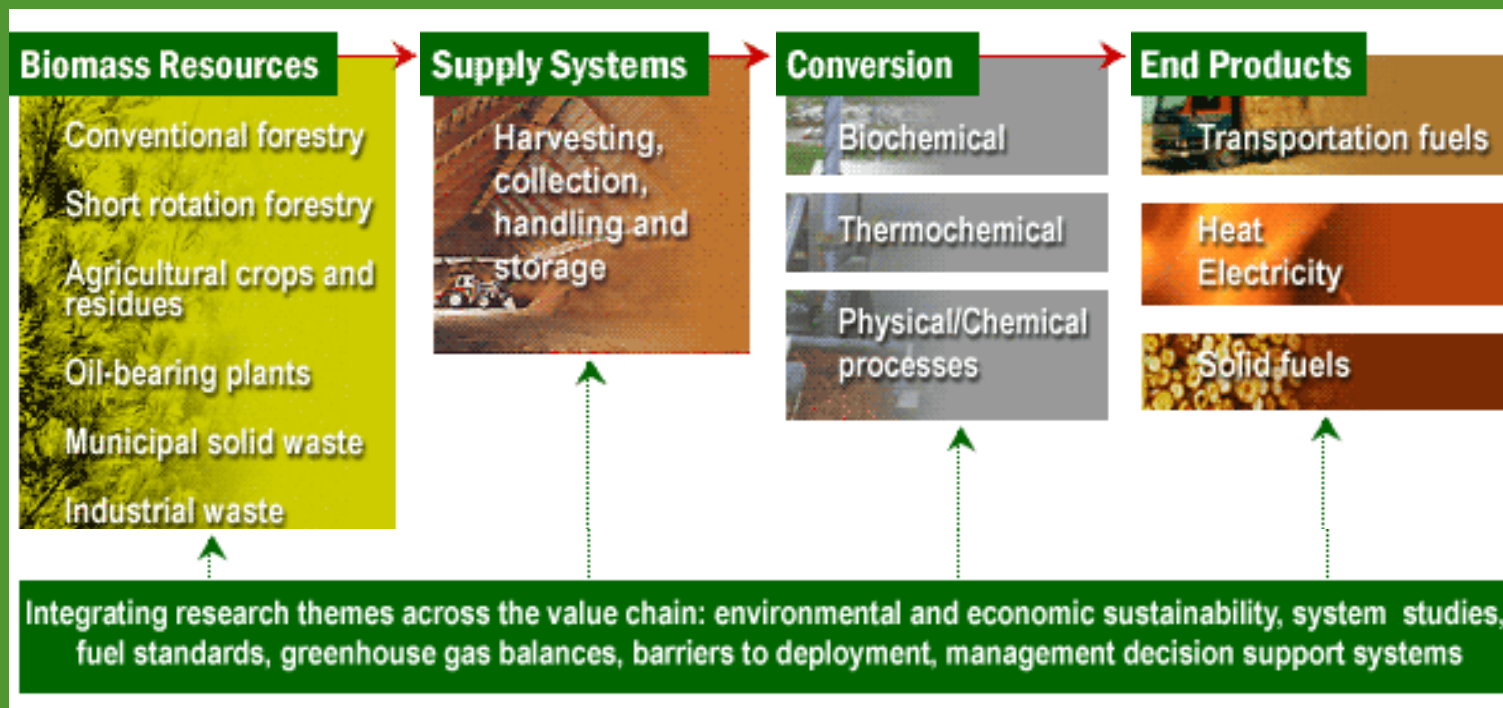


European Biomass Conference, 4 May 2010



IEA Bioenergy (2)

- an umbrella organization where experts from research, government and industry work together



www.ieabioenergy.com

Biomass Combustion and Cofiring



IEA Bioenergy Task 32: Biomass Combustion and Co-firing

- To stimulate further expansion of the production of energy from biomass combustion
- Generating and disseminating information on technical and non-technical barriers and anticipated solutions for:
 - dedicated biomass combustion systems, and;
 - biomass co-firing in existing coal fired power plants.



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IEA Bioenergy Task 32: Biomass Combustion and Co-firing

(2)

- **Experts from 13 countries:**
Austria, Canada, Denmark, Finland , Germany, Ireland, Italy, Netherlands, Norway, Sweden, Switzerland, Turkey, United Kingdom
- **Working together in:**
 - Cooperative projects
 - Meetings, Workshops, Conferences, Excursions
 - Cooperation with other Networks
- **Reports etc. can be found on our website:**
www.ieabioenergytask32.com



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Slagging, fouling & corrosion can lead to severe problems



Agenda

- The resource basis of alternative fuels for small scale and industrial combustion
- The consequences of using challenging fuels for furnace design, boiler operation and emissions
- Approaches for adaptations of technical design
- Outlook for new boiler materials and limits in steam temperature



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Agenda

15:00	Introduction	Jaap Koppejan
15:10	The Fuel Handbook- How to introduce new varieties of bio-fuel in a plant	Birgitta Strömberg Värmevorsk, Sweden
15:30	European standards for solid biofuels - case pellets from agribiomass	Eija Alakangas VTT, Finland
15:50	Variations in biomass composition	David Baxter JRC, Netherlands
16:10	Combustion characteristics of Miscanthus based on lab-scale and pilot plant combustion trials in Austria	Thomas Brunner BIOS Bioenergiesysteme, Austria
16:30	Coffee break	
16:45	Operation experience from combustion of biomass at elevated steam temperatures with the focus on challenging biomass fuels	Markus Bolhàr-Nordenkampf AE&E, Austria
17:05	First experiences with chicken litter fired BFB combustion plant at Moerdijk, Netherlands	Ton Konings KEMA, Netherlands
17:25	Plant experience with the firing and co-firing of challenging biomass fuels	Bill Livingston, Doosan Babcock, UK
17:45	Discussion and closing	
18:00	End of workshop	

