

BioPower Generation™

Delivering efficient, cost effective power generation from biomass

9 & 10 April 2008, Le Plaza Hotel, Brussels



Learn from leading Biomass & Bioenergy Experts, including:

Hans Nordström, Director Fuel Strategies,
Vattenfall, Sweden

Sauro Pasini, Head of Technological Development,
Enel, Italy

Gerry Riley, Fuels & Combustion,
RWE nPower, UK

Adrian Chatterton, Head, Biomass Construction,
E.ON Climate and Renewables, UK

Yves Rickmans, Technology Officer Biomass,
Electrabel

Martin Cmiral, Environmental Products Manager,
CEZ, Czech Republic

Ingemar Gunnarsson, Project Manager,
Göteborg Energi AB, Sweden

Paul Romijn, Commercial Biofuels Manager
Essent Energy Trading, The Netherlands

Kyriakos Maniatis, DG TREN,
European Commission

Harrie Knoef,
BTG Biomass, The Netherlands

Halbart Volker, Managing Director Transport & Energy,
NIBC Bank, The Netherlands

How can biomass be integrated into mainstream power generation?

- Learn from **25+** leading bioenergy experts
- Understand the challenges in **integrating biomass into the energy portfolio**
- Identify the main **barriers to the expansion of biomass power generation**
- Find out how to **develop a sustainable, secure biomass supply chain**
- Hear case studies from **commercially viable co-firing, dedicated biomass and biomass gasification plants**
- Discover the latest technological developments for **co-firing, dedicated biomass and biomass gasification**
- **Special Group Offer:**
Register 3 delegates, only pay for 2
- **3900+** Executives have already benefited from attending Green Power's Bioenergy events

"10/10 conference and already doing a number of follow ups" SAFF at recent Green Power Bioenergy Event

Endorsed by:





08.30 Registration & Welcome Coffee

09.00 Chairman's Opening Remarks:
Oliver Schäfer, Policy Director,
European Renewable Energy Council

Global Market Developments

The opening session will provide an overview of the biomass for power generation market, addressing the economic feasibilities, the main barriers to market expansion and the challenges and opportunities that utilities face in integrating biomass into their energy portfolios.

09.15 **Keynote Presentation: Integrating biomass into mainstream power generation**
 ▶ Challenges - threats - possibilities
 ▶ Different situations and structures
 ▶ Needed actions
Hans Nordström, Director Fuel Strategies, **Vattenfall**, Sweden

09.40 **Enel's industrial program and the opportunity of biomass**
 ▶ Biomass utilization in coal fired boilers
 ▶ Biomass utilization in dedicated boilers
 ▶ Research activities: "agro-energy farm"
Sauro Pasini, Head Technology Scouting, Engineering and Innovation Division **Enel**, Italy

10.05 **Market Overview: Biomass for power generation**
 ▶ What is the current status of biomass for power generation in Europe?
 ▶ What can be done to drive the market forward?
 ▶ A brief overview of the available technologies
Herwig Ragossnig, Bioenergy Expoert, **AEBIOM**

10.30 Interactive Discussion with session speakers

10.40 Networking Refreshment Break

Policy and Regulation: Stimulating Market Growth

Effective policy and regulation are critical to biomass market growth. This session will bring together representatives from the European Commission and national energy agencies to address the current regulation in Europe and future directions that will encourage market growth.

11.20 **Latest EU regulations for bio power generation**
 ▶ Biomass in the European Commission's renewable energy directive
 ▶ How will the recent renewable energy proposals affect the biomass market?
Kyriakos Maniatis, DG TREN, **European Commission**

11.45 **What are the latest developments in EU legislation?**
Oliver Schäfer, Policy Director,
European Renewable Energy Council

12.10 **Creating a level playing field for successful market development**
 ▶ Developing policy frameworks to facilitate increased uptake of biomass for power generation
 ▶ Regulation, subsidies, tax breaks and incentives
Erik Ling, Manager Director, **Väterås Stift Skog**, Sweden

12.35 **Panel Discussion: Stimulating growth through effective policy and regulation**
 ▶ Identifying the main barriers to expansion of biomass power generation
 ▶ Which policy options will stimulate biomass growth?
 Panellists:
Kyriakos Maniatis, DG TREN, **European Commission**
Oliver Schäfer, Policy Director, **EREC**
Karin Freier, **Federal Ministry for the Environment**, Germany
David Hollier, Energy Group, **UK Department of Business, Enterprise and Regulatory Reform**

13.00 Networking Lunch Break

Financing Biomass Plants

This session will address the financing trends in the large scale biomass market, the speaker panel will give an in depth overview of what they look for when financing projects, the driving factors and strategies for debt financing. The session will also include analysis on how companies can benefit from Kyoto mechanism co-financing opportunities.

14.20 **Case Study: Financing the BMC Moerdijk biomass plant**
 ▶ Identifying the main financing aspects from a lenders perspective
 ▶ Structuring deals
 ▶ Fuel supply - chicken litter
 ▶ Managing the project risk
Halbart Volker, Managing Director Transport & Energy,
NIBC Bank, The Netherlands

14.45 **Case Study: Project Finance for Biomass Power Plants**
 ▶ What types of projects are receiving financing?
 ▶ What issues do developers need to consider before approaching financiers
 ▶ Project finance case study
James Barrett-Miles, Infrastructure Advisory - Renewables,
 Waste & Clean Energy Group, **Ernst & Young LLP**

15.10 **Kyoto Mechanism co-financing opportunities and challenges of bio-power projects**
 ▶ Practical policy on EU ETS and JI
 ▶ Examples of biomass projects financed
 ▶ Case Study: Hungarian power plants in JI
Zsolt Lengyel, Programme Advisor, **Carboncredits.nl - SenterNovem**

15.35 Interactive Discussion with session speakers

15.45 Networking Refreshment Break

Developing secure biomass fuel supply chains

This session will take a look at the resources available for developing secure, sustainable supplies of feedstock for biomass power plants. What is the most sustainable way to increase biomass production in Europe? Which feedstock alternatives are feasible as sources of fuel? How can average crop yield be increased? How can fuel quality be managed?

16.10 **Case Study: Essent's experience on sustainable supply chains**
Paul Romijn, Commercial Biofuels Manager,
Essent Energy Trading B.V.

16.35 **Ensuring a secure supply of feedstock for power plants**
 ▶ Sustainability
 ▶ Quality
 ▶ Security of availability
Frank Schilig, Manager Bioenergy, **Ecofys**

17.00 **Panel Discussion: Developing a sustainable, secure biomass supply chain**
 ▶ Securing the supply chain for biomass production
 ▶ Transport, storage and supply considerations
 ▶ Managing the risk
 ▶ Fuel quality management and standardisation issues
 Panellists:
Graham Hilton, **The Energy Crops Company**
Paul Romijn, Commercial Biofuels Manager,
Essent Energy Trading B.V.
Ian McChesney, Technical Director, **Camco**
Frank Schilig, Manager Bioenergy, **Ecofys**

17.30 Networking Drinks Reception



08.30 Welcome Coffee

09.00 Chairman's Opening Remarks:

Co-Firing

Co-firing is currently the most cost effective method for large scale power generation from biomass, with conversion efficiencies up to 45% and a pay back period of 2 years if a supply local low-cost biomass is available. In this session 3 leading European utilities will present case studies on their experiences to date with developing commercial co-firing plants. Latest developments in co-firing technologies will also be discussed.

09.05 **Case Study: RWE nPower Co-firing case study**

- ▶ Why choose co-firing?
- ▶ What are the technical challenges of co-firing in power stations?
- ▶ How are they overcome?

Gerry Riley, Fuels & Combustion, **RWE nPower**, UK

09.30 **Case Study: Potential for Co-firing in the Czech Republic & Eastern Europe**

- ▶ Successful deployment of biomass co-firing in the Czech Republic
- ▶ What challenges did CEZ face?
- ▶ What are the future opportunities for market development in Eastern Europe?

Martin Cmiral, Environmental Products Manager, **CEZ**, Czech Republic

09.55 **Case Study: Deploying a Commercial Co-Firing Plant**

- ▶ Case study: Scottish and Southern Energy's Fiddlers Ferry Power Station (UK); the first dedicated co-firing project in the UK

Mark Boneham, Head of Business Development, **Alstom Power**, UK

10.20 **Advances in biomass co-firing technologies**

- ▶ What are the current co-firing technologies?
- ▶ Fluidised bed combustion
- ▶ What technologies are available to improve conversion efficiency?

Ronald Meijer, **Kema Consulting**, The Netherlands

10.45 Interactive discussion with session speakers

10.55 Networking refreshment break

Dedicated Biomass Plants

Dedicated biomass plants are smaller in size and lower in efficiency than co-fired plants. In this session we will look at how utilities can make such plants economically feasible and what technologies are being developed to increase the production efficiency.

11.25 **Case Study: Commercial dedicated biomass plant**

- ▶ Case study: Stevens Croft, Lockerbie
- ▶ Results so far
- ▶ Future developments

Adrian Chatterton, Head Offshore Wind & Biomass Construction, **E.ON Climate and Renewables**, UK

11.50 **Case Study: Conversion of coal fired to biomass plant**

Yves Rickmans, Technology Officer Biomass, Waste and Carbon Capture, **Electrabel**

12.15 **Increasing production efficiency for CHP plants**

Torben Hille, **Dong Energy**, Denmark

12.40 **Advances in biomass CHP technologies**

- ▶ Advances in developing energy efficient CHP technology

Lars Jagd, **Stirling Danmark**, Denmark

13.05 Interactive Discussion with session speakers

13.15 Networking Lunch Break

Biomass Gasification

In this closing session, we will analyse the current market conditions for biomass gasification, addressing case studies of commercial plant implementations and the latest technological developments

14.30 **Case Study: Gothenburg biomass gasification plant**

- ▶ Commercialisation of biomass gasification
- ▶ Utilising low grade biomass for biogas production
- ▶ Conversion efficiencies & technologies
- ▶ Distribution strategies

Ingemar Gunnarsson, **Göteborg Energi AB**, Sweden

14.55 **Case Study: Co-gasification power plant**

- ▶ Large scale co-gasification
- ▶ Co2 reductions

Speaker to be announced

15.20 **Advances in biomass gasification technologies**

- ▶ State of the art of biomass gasification
- ▶ Prospects at small and large scale
- ▶ R&D needs
- ▶ Roadmap to commercialization

Harrie Knoef, **BTG**, The Netherlands

15.45 **Biomass Pyrolysis**

- ▶ Developments in biomass pyrolysis technology
- ▶ What are the benefits of using this technology?
- ▶ Future potential

Speaker to be announced

16.10 Interactive Discussion with Session Speakers

16.30 Closing remarks

Marketing Opportunities

Sponsor BioPower Generation and benefit from:

- ▶ **1st class lead generation:** meet companies actively working in biomass power generation
- ▶ **Enhanced brand profile:** pre-event promotional campaign plus extensive on site branding
- ▶ **Excellent publicity:** gain an incredible amount of presence from on site promotion and exhibition stand
- ▶ **A cost effective marketing solution:** our development team will be happy to customise a package and develop a cost effective marketing channel to generate new sales leads

For details contact: Mathew Edassery on email:
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