

# European Biomass Forum 2008

Exploring Future Markets, Financing & Technology for Power Generation

Amsterdam,  
The Netherlands

16th – 17th June 2008

## Successfully meet electricity demands and environmental regulations in Europe through proactive planning

With increasingly tougher green targets for power generation in Europe, this **marcus evans** forum brings together leading experts in the energy industry to debate the top strategies, market trends and technologies to ensure the optimal performance for your plant.

 **marcus evans**

Attending this **marcus evans** event will enable you to:

- **Learn** latest EU regulatory, technological and research developments
- **Profit** from world class strategies to manage your biomass plants
- **Identify** opportunities to further the uptake of biomass CHP
- **Optimise** power generation quality and efficiency
- **Evaluate** financial support measures available
- **Reduce** CO<sub>2</sub> emissions and environmental impacts in your plants

Benefit from Case Study Presentations by:

- **Vattenfall** analysing the production cost and market price of biomass for power generation
- **Enel** presenting biomass and renewable fuel cofiring experiences
- **E.ON Nordic** addressing the economically optimal strategy for sustainable bioenergy
- **Gaz de France** identifying an innovative way for green energy production

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**Giuliano Grassi**  
Secretary General  
**EUBIA**

**Oliver Schäfer**  
Policy Director  
**European Renewable Energy Council**

**Martin Cmiral**  
Environmental Product Manager  
**CEZ**

**Anja Silvennoinen**  
Senior VP, Energy  
**UPM-Kymmene Corporation**

**Hans Nordstrom**  
Director Fuel Strategies  
**Vattenfall**

**Lars Ehlén**  
Manager of Heat and Power  
**Växjö Energi**

**Dr. Peter Lohmander**  
Professor of Forest Economics  
**Swedish University of Agricultural Sciences**

**David C. Smales**  
Head of Biomass Co-firing  
**Drax Power Ltd**

**Richard Bonsall**  
Head of Asset Development  
**RWE NPower**

**Philippe Buchet**  
Head of Industrial Customer Program, R&D Division  
**Gaz de France**

**Dr. Francois Vuille**  
Managing Consultant  
**E4tech;**  
Invited Lecturer  
**Swiss Federal Institute of Technology Lausanne**

**Bruno Brozzi**  
Special Project Manager  
**Enel**

**David Knutsson**  
Senior Analyst Energy Systems  
**Goteborg Energi AB**

**Eddie Johansson**  
VP  
**Ena Kraft AB**

**Lars Rohold**  
CEO  
**Nordic Bioenergy**

Day 1

16th June, 2008

08:30 Registration and Coffee

09:00 Chairperson's Opening Remarks

### THE FAST DEVELOPING AND GROWING EUROPEAN MARKET FOR BIOMASS

09:10 **Opening Address**

#### **Status of Biomass Markets and Industry in Europe**

- A demand pattern for biomass in Europe
- The efficacy of introducing new energy crop resources in the future
- How current levels of biomass consumption vary significantly by geography
- Assessing the potential size of the biomass market
- Why will biomass soon become an essential aspect of power generation?

**Giuliano Grassi**  
Secretary General  
**EUBIA**

09:50 **An Update on EU Policy and Green Targets**

- EU regulations and incentives
- Policy progress towards renewable targets
- Reviewing the effect of EU renewable energy targets

**Oliver Schäfer**  
Policy Director  
**European Renewable Energy Council**

10:30 Morning Coffee

### COMMERCIAL EDGES AND FINANCIAL PROSPECTS OF INVESTMENT ON BIOMASS

11:00 **Case Study**

#### **International Trade in Biomass and Biofuels - Business Opportunities**

- Addressing the cost of various waste biomass sources
- Assessing non-tariff barriers and other obstacles of biofuel
- Potential for international trade

**Anja Silvennoinen**  
Senior VP, Energy  
**UPM-Kymmene Corporation**

11:40 **Case Study**

#### **Economically Optimal Joint Strategy for Sustainable Bioenergy and Forest Sectors with CO2 Constraints - A Joint Project with E.ON Sverige**

- Ways of increasing the total profit of the forest and bioenergy sectors
- How to increase the forest harvest level and the capacity of the bioenergy sector in a sustainable way
- Determining the optimal dynamic time path of the forest resource and increasing the growth through new forest management methods
- Reducing CO2 in the atmosphere via CO2 separation and permanent storage in combination with increased forest harvesting and new plantations

**Dr. Peter Lohmander**  
Professor of Forest Economics  
**Swedish University of Agricultural Sciences**

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12:20 **Case Study**

#### **Biomass for Power Generation – Production Cost v.s. Market Price**

- Analysing the situation today and tomorrow
- Addressing needed proactive work
- Conclusions

**Hans Nordstrom**  
Director Fuel Strategies  
**Vattenfall**

13:00 Luncheon

14:00 Coffee and Networking

14:30 **Developing Sustainable Biomass Projects in Central Europe**

- Biomass as part of the corporate renewable energy strategy
- Investing without a long-term supply certainty?
- The struggle for energy crops

**Martin Cimral**  
Environmental Product Manager  
**CEZ**

### MASTERING THE POTENTIAL OF BIOMASS FUEL

15:10 **Case Study**

#### **Manure as the only Biomass Source for Biomethanization in Industrial Scale**

- Addressing technology of using manure as a biomass source for biomethanisation
- A profitable investment project in biomethanisation
- Clean Tech: utilization of the nutrients in manure
- Biomethanisation of effluent from ethanol plants – a part of a biorefinery

**Lars Rohold**  
CEO  
**Nordic Bioenergy**

15:50 Afternoon Tea

16:20 **Feedstock Supply and Technology Risks for Wood-based Power Plants**

- Uncertainties regarding volumes of economically exploitable wood
- Analysing difficulties of securing supply contracts and competition over feedstocks
- Competition with the timber industry
- Identifying feedstock quality requirements for new conversion technologies
- Technology challenges to mitigate environmental and health impacts

**Dr. Francois Vuille**  
Managing Consultant,  
**E4tech;**  
Invited Lecturer  
**Swiss Federal Institute of Technology Lausanne**

17:00 **Panel Discussion**

#### **Examining Biomass Supply Chain and the Risk of Pricing**

- Assessing the global production and supply chain of biomass
- Forecasting the growing biomass market in Europe
- Factors that affecting the long-term biomass supply
- Examining the fluctuating biomass price
- Will biomass energy crop regulations result in future biomass-only power stations?

*The panel will be joined by key speakers from the day*

17:40 Chairperson's Closing Remarks and End of Day One

Day 2

17th June, 2008

08.30 Registration and Coffee

09:00 Chairperson's Opening Remarks

#### IDENTIFYING WAYS OF GREEN BIOMASS GASIFICATION

09:10 Case Study

##### **Gasification: an Innovative and Promising Way for Green Energy Production**

- Addressing the gasification process and its main advantage
- Key issues affecting gasification
- Gaz de France's approach to biomass gasification

**Philippe Buchet**

Head of Industrial Customer Program, R&D Division  
**Gaz de France**

09:50 Case Study

##### **GoBiGas: Gothenburg Biomass Gasification Project**

- Outlining the GoBiGas Project: technical solutions and its current status
- Addressing advantages of biogas
- Analysing Production of synthesis gas and methanation for the gas grid
- How to produce synthetic natural gas (SNG) from biomass via indirect gasification

**David Knutsson**

Senior Analyst Energy Systems  
**Goteborg Energi AB**

10:30 Morning Coffee

#### INNOVATIVE TECHNOLOGIES IN CO-FIRED POWER PLANTS

11:00 Case Study

##### **Biomass and Other Renewable Fuel Cofiring Experience in Enel's Generation Assets**

- An overview of Enel's generation assets
- Addressing our biomass and RDF cofiring experience
- Examining related maintenance aspects
- Related operation aspects

**Bruno Brozzi**

Special Project Manager  
**Enel**

11:40 Case Study

##### **Cogeneration Using Biomass**

- The contribution of Biomass CHP to meet European targets for Renewable Energy
- Determining which forms of biomass are the most cost effective and energy efficient
- Achieving optimal value of biomass CHP projects

**Richard Bonsall**

Head of Asset Development  
**RWE nPower**

#### Business development opportunities

Does your company have services, solutions or technologies that the conference delegates would benefit from knowing about? If so, you can find out more about the exhibiting, networking and branding opportunities available by contacting our sponsorship division.

**Martin Simpkins** on 0031 20 531 2890  
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12:20 Case Study

##### **Making Large-Scale Biomass Co-firing a Reality - A Practical Example**

- An overview of Drax's biomass co-firing aspirations and capability
- Understanding the factors critical to achieving success
- Delivering an effective business solution

**David C. Smales**

Head of Biomass Co-firing  
**Drax Power Ltd.**

13:00 Luncheon

14:00 Coffee and Networking

#### DEVELOPING A SUSTAINABLE BIOMASS POWER PLANT

14:30 Case Study

##### **Multifunctional Applications of Bioenergy Solutions**

- Supplying a town with heat and electricity with biofuels – a 10-year project
- Using the waste water nitrogen and phosphorus as fertilizer on Salix fields
- Reusing the ash mixed with digested sludge as fertilizer on Salix fields
- Cleaning the farming land from Cadmium and Cesium
- Economic benefits of cheaper energy crops than coal

**Eddie Johansson**

VP  
**Ena Kraft AB**

15:10 Case Study

##### **Polygeneration in Växjö – Beneficial for all; Customer, Environment and Energy Company**

- Addressing the local decision to make Växjö a fossil free community
- How we evolved from 100 % fossil fuel in 1979 to 1.3 % in 2006 in heat and power production
- District heating supplying 90 % of the town Växjö
- Strategies for combining combine CHP with absorption cooling and making it profitable

**Lars Ehlén**

Manager of Heat and Power  
**Växjö Energi**

15:50 Afternoon Tea

16:20 Panel Discussion

##### **Economic and Environmental Benefits in Biomass Power Plants**

- Identifying key areas of difficulties that influence environmental performance in a power plant
- Examining environmental benefits of biomass power plants
- How can biomass power plants reduce cost while maintaining quality
- Comparing the culturally different approaches

17:00 Chairperson's Closing Remarks and End of Conference

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### If EU renewable generation targets are to be met, biomass will become one of the fastest growing renewable sources of energy.

Under today's tight environment regulations, out-of-date planning for power generation edge out your plant in today's increasingly competitive market resulting in huge lost revenue. Hence, it is critical that all necessary power generation investments, activities procedures and are planned far in advance. To address this issue, power plants need to keep up with up-to-date assessment expertise in the planning process and possess a green power generation planning tool to ensure a timely startup of the plant.

In this informative and practical event, **marcus evans** discusses the growing energy market and finance for biomass, variety of proven strategies available to generation plants to optimise their equipment and production levels, as well as considering the latest in technological solutions to help enhance your environmental and planning programmes. This conference presents a unique networking opportunity for anyone involved in any aspect of plant production and business development. You will hear from other operators in your industry addressing problems they have faced and how they tackled them; benchmark your systems with theirs and learn how you can achieve world class status in power generation with biomass.

For further information on this conference and special discounts please contact **Sumreen Rizvi** on +44 (0) 20 3002 3277 or email [SumreenR@marcusevansuk.com](mailto:SumreenR@marcusevansuk.com)

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#### MDs, Presidents, VPs, Directors, Heads of, Chiefs of Power Stations and Plants:

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