

2nd Annual

European Biomass and Bioenergy Forum

Moving Towards Sustainable Growth, Leveraging Business Efficiency and Meeting Environmental Regulations

London, United Kingdom

8th – 9th June 2009

Attending this premier **marcus evans** conference will enable you to:

- **Learn** about EU regulatory, technological and research developments
- **Profit** from world class strategies to manage your biomass plants
- **Drive** toward advanced biomass procurement strategies
- **Discover** how and in which technology to invest and minimise risk
- **Optimise** product portfolio and development routes to business sustainability
- **Identify** further biomass and bioenergy market opportunities

Benefit from Case Study Presentations by:

- **Pohjolan Voima** developing a cutting-edge procurement strategy in the world's largest biofuel plant Alholmens Kraft
- **GDF Suez** scrutinising different scale biomass projects and their performance
- **E.ON Bioerdgas** driving growth in Europe's largest biogas plant
- **Essent** establishing world benchmarks in biomass co-firing
- **E.ON UK** achieving technological efficiency in Sheffield biomass plant
- **RWE Innogy Cogen** strengthening its position in energy from biomass in Germany
- **Dong Energy** increasing biomass usage in CHP plants

Early Bird Special Offer:

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www.meenergy.com

Discover NEW MARKET OPPORTUNITIES,

Surpass in PROCUREMENT STRATEGIES and

Drive EFFECTIVE TECHNOLOGY SOLUTIONS

This 2nd annual **marcus evans** conference is an unprecedented opportunity in the world of biomass to learn from the key players in the bioenergy industry addressing the burning issues of procurement, effective use of existing and new technologies, strategies for economic viability and risk management, benchmark your systems and learn how you can achieve world class status in the bioenergy industry.



Your Expert Speaker Panel:

Peter Vis

Member of Cabinet, DG Energy and Transport

European Commission

Peter Rechberger

Bioenergy Expert

European Biomass Association (AEBIOM)

Niels Bergh-Hansen

Executive Vice President

Dong Energy

Dr Nader Padban

R&D Coordinator

Vattenfall Research and Development

Fritz Wolf

Managing Director

E.ON Bioerdgas

Jens Otterstedt

Vice President, Business Development

Sveaskog

Juha Poikola

Vice President, Biofuel Strategy

Pohjolan Voima

Francis Hanssens

Business Development Manager

Electrabel Renewable Generation BeLux

Jaap Kiel

Programme Manager Biomass and Coal

ECN

Dr Nilton Chan

Project Developer

E.ON UK

Dr Wim Willeboer

Manager Process Technology

Essent Energy Production

Dr Nicolaus Dahmen

bioliq® Project Coordinator

Karlsruhe Institute of Technology

Fabien Hillairet

Project Leader, Renewable Energy Investments

CEZ

Holger Linke

Regional Director

RWE Innogy Cogen

Dr Peter Lohmander

Professor of Forest Management and Economic Optimisation

Swedish University of Agricultural Sciences

8th June, 2009

Booking Line

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08:30 Registration and Coffee

09:00 Opening Address from the Chair

Dr Peter Lohmänder
Professor of Forest Management and Economic Optimisation
Swedish University of Agricultural Sciences

REGULATORY FRAMEWORK: EUROPEAN PERSPECTIVE AND NEW DEVELOPMENTS

09:10 Opening Address

Biomass and Bioenergy within the Context of EU Legislation

- Overview of EU renewable energy targets and climate objectives
- Scope and definitions
- The potential of biomass in the context of EU targets
- Compatibility with the EU emissions trading monitoring guidelines
- Further policy steps foreseen, in particular on biomass sustainability

Peter Vis
Member of Cabinet, DG Energy and Transport
European Commission

09:50 **The Role of Biomass in the European Energy System**

- Sustainability issues
- Biomass feedstock types and their potential (from agriculture, forestry, waste)
- Markets: heat, electricity, transportation fuels
- National renewable action plans: expected impact on biomass supply
- Consequences for power plants

Peter Rechberger
Bioenergy Expert
European Biomass Association (AEBIOM)

10:30 Morning Coffee

IDENTIFYING OPTIMUM DEVELOPMENT ROUTES FOR PLANT SUSTAINABILITY

11:00 Case Study

Challenges in Developing a Large Scale Dedicated Biomass Energy Plant

- Factors to consider when investing in biomass energy plants
- Planning consent and conditions
- Achieving technological flexibility

Dr Nilton Chan
Project Developer
E.ON UK

11:40 Case Study

Driving Growth in Schwandorf Plant- Europe's Largest Biogas Plant

- Demand vs output
- Planning and construction challenges
- Handling fuel access
- Applications of energy production from waste biomass
- Expectations for future sustainability and development

Fritz Wolf
Managing Director
E.ON Bioerdgas

12:20 Case Study

Biomass as a Mean to Go from 80/20% Fossil/Renewable to 20/80%

- Economic drivers for using biomass
- Growth of small-scale Combined Heat and Power (CHP) plants within DONG Energy
- Biomass in pulverised coal utility boilers
- Planned use of biomass in Denmark by DONG Energy 2010–2015

Niels Be rg-Hansen
Executive Vice President
Dong Energy

13:00 Luncheon

14:00 Coffee and Networking

INNOVATIVE TECHNOLOGIES IN CO-FIRED POWER PLANTS

14:30 Case Study

Biomass Energy Projects within GDF Suez-Electrabel

- Large scale co-combustion projects in existing thermal power plants
- Decentralised small and medium scale projects
- Return of experiences on these projects: safety issues, certification and traceability on the biomass fuel

Francis Hanssens
Business Development Manager
Electrabel Renewable Generation BeLux

15:10 Case Study

Establishing World Benchmark in Co-Firing Biomass in Essent's Power Station Amer

- Incentives and opportunities in project commencement
- Eight years of experience in co-firing: up to 35 % biomass with coal
- Minor and major practical problems encountered and solved
- Need for own technology development
- Future outlook on further increase of biomass application

Dr Wim Willeboer
Manager Process Technology
Essent Energy Production

15:50 Afternoon Tea

16:20 Case Study

Potential for Co-Firing in the Czech Republic and Eastern Europe

- The latest co-firing developments in the Czech Republic
- The co-firing situation in other Eastern European states
- What are the challenges of co-firing biomass supply?
- Market potentials

Fabien Hillairet
Project Leader, Renewable Energy Investments
CEZ

17:00 Panel Discussion

Addressing Expectations from Bioenergy Sector in Current Market Conditions: Where is the Market for Biomass?

- Different countries' policy frameworks and price levels
- Introduction of subsidies schemes in major EU countries: what could be the reaction of businesses?
- How will the share of biomass energy in each member state increase?
- Governmental support destroying price development- how to handle it?

The panel will be joined by:

Juha Poikola
Vice President Biofuel Strategy
Pohjolan Voima

Francis Hanssens
Business Development Manager
Electrabel Renewable Generation BeLux

Dr Nilton Chan
Project Developer
E.ON UK

Dr Nicolaus Dahmen
bioliq® Project Coordinator
Karlsruhe Institute of Technology

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

9th June 2009

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08:30 Registration and Coffee

09:00 Opening Address from the Chair

Dr Peter LohmanderProfessor of Forest Management and Economic Optimisation
Swedish University of Agricultural Sciences

BIOMASS AND BIOENERGY MARKET POTENTIAL, PROCUREMENT AND RISK MANAGEMENT

09:10 Case Study

Strategy of the Leading Forest Company on Biomass Mobilisation and Sustainability Issues

- Supplying diverse markets and consumer needs
- Biomass mobilisation opportunities and challenges
- Forestry sustainability criteria and environmental practices

Jens OtterstedtVice President, Business Development
Sveaskog09:50 **Derivation of the Economically Optimal Joint Strategy for Development of the Bioenergy and Forest Products Industries**

- What are the optimal production capacity expansion and production plans?
- How should dynamic market information be used in strategy optimisation?
- How to integrate the bioenergy, pulpwood and timber extraction plans
- Optimisation of flexibility and risk management
- Case study: application to joint strategy optimisation in Sweden with data from three companies

Dr Peter LohmanderProfessor of Forest Management and Economic Optimisation
Swedish University of Agricultural Sciences

10:30 Morning Coffee

11:00 Case Study

Optimal Procurement Strategies in the World's Largest Biofuel Plant: Alholmens Kraft

- Looking for large sustainable volumes of biomass
- Integration into the supply chain and securing own biomass
- Future prospects of biomass availability and procurement
- The risk of overheated biofuel markets in the future

Juha PoikolaVice president, Biofuel Strategy
Pohjolan Voima

11:40 Panel Discussion

Overcoming Challenges: Securing Biomass for Long Term and Contracting Strategies

- What is the state of biomass access and what are the procurement trends?
- What will happen to biomass prices in current market situation?
- How to pick credible counterparts? Issues of material quality, timing, volumes, transporting capacities

*This panel will be joined by:***Dr Nader Padban**R&D Coordinator
Vattenfall Research and Development**Juha Poikola**Vice President Biofuel Strategy
Pohjolan Voima**Dr Nicolaus Dahmen**bioliq® Project Coordinator
Karlsruhe Institute of Technology

BOOSTING EFFICIENCY THROUGH SHARP TECHNOLOGY UTILISATION

12:20 Case Study

Innovative Solutions for Biomass Based Generation of Heat and Power

- RWE Innogy's European portfolio of biomass based CHP assets
- Co-generation principle mandatory to achieve adequate efficiency
- Availability and sustainability of biomass input (selected markets)
- Application of adequate technologies as basis for operational performance

Holger LinkeRegional Director
RWE Innogy Cogen

13:00 Luncheon

14:00 Coffee and Networking

14:30 **Torrefaction Heading Towards Commercial Application**

- Why use torrefaction technology?
- Strategies for cost optimisation in torrefaction processes
- Is the technology really that simple? What can go wrong? What are the technological risks?

Jaap KielProgramme Manager Biomass and Coal
ECN15:10 **The Bioliq-Process: Matching Biomass Supply to Large Scale Use for Chemicals and Fuels Production**

- Pre-treatment of biomass for energy densification
- Economic biomass transport for large scale use
- Approach to multi-feed ability – biosyncrude gasification
- Pure synthesis gas for fuels and chemicals production

Dr Nicolaus Dahmenbioliq® Project Coordinator
Karlsruhe Institute of Technology

15:50 Afternoon Tea

16:20 Case Study

Advancing R&D at Vattenfall for Solving Fouling Problems in Biofuel Combustion, Reducing Operating and Maintenance Costs and Increasing the Fuel Flexibility and Availability

- Overview of surpassed and current operational issues in CHP plants
- Battling corrosion, coating and slagging
- Developing technologies

Dr Nader PadbanR&D Coordinator
Vattenfall Research and Development

17:00 Panel Discussion

Which Technology Brings the Highest Value?

- Which is the best bioenergy route and what are the criteria?
- Should biomass be used for heat, power or bio-fuels? What final product government needs
- How reliable are the advanced technologies?
- Integration between different biomass technologies
- How to diversify products and achieve optimum production intensity?

*The panel will be joined by:***Dr Nader Padban**R&D Coordinator
Vattenfall Research and Development**Jaap Kiel**Programme Manager Biomass and Coal
ECN**Dr Nicolaus Dahmen**bioliq® Project Coordinator
Karlsruhe Institute of Technology**Marc Siemer**Bid Manager
MAN Turbo

17:40 Chairperson's Closing Remarks and End of Conference

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.

Nathan Stevens, Tel: 00420-2-5570-7222

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Increasing dependence on imported fuels has created an urge for the EU to shift away from fossil fuels toward renewable energy sources. Regulations put pressure on fossil fuel energy production and targets have been set for renewable energy. Operators recognise that diversified feedstock and product portfolios represent stabilising, cost-cutting and rewarding strategies.

The bioenergy sector is growing exponentially. However operators are challenged by uncertainty in biomass sustainability, supply and pricing, evolving regulations and market conditions, and possible slacks in financing due to capital markets volatility. Players in the bioenergy field strive to optimise production and achieve maximum technological flexibility in order to be able to utilise biomass of various types and qualities, also in combination with other types of fuels.

Who Should Attend

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

- Biomass
- Renewables
- Production
- Procurement
- Technical
- Environment
- Project Engineering
- Business Development
- Engineering
- Investment
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- Health and Safety
- Waste Management
- Infrastructure
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For further information on this conference and special discounts please contact **Sumreen Rizvi** on +44 (0) 20 3002 3277 or email SumreenR@marcusevansuk.com