

Hear from

E.ON Bioerdgas GmbH
European Commission
Veolia Environmental Services
UTS Biogastechnik
Ros Roca
Xergi A/S
Chinese Ministry of Agriculture
ScandinavianGtS
Clean Air Power
US Environmental Protection
Agency - AgSTAR Programme
WRAP (Waste & Resources
Action Programme)
Organic Waste Systems
Lurgi
Cambi
Biodiesel Industries
Bioganix
Enbasys
HERA Holding
Pzero
Clean Vehicles in Stockholm,
Environment and Health
Administration
Raiffeisenlandesbank
RENERGIE
Juniper Consultancy Services
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Congress Chairs

Stuart Hayward-Higham
Head of New Market Business
Development
SITA UK

Christopher Maltin
Chairman
Organic Power

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ENVIRONMENT & PACKAGING LAW
WEEKLY



Capitalising on Market Opportunities for Biomethane and Landfill Gas in Power and Transportation Fuels

27-29 October 2008, Crowne Plaza Europa Hotel, Brussels

Keynote Speakers

Ulrich Schmack
Chief Executive Officer
Schmack Biogas

Csaba Sándor Tabajdi MEP
Rapporteur, Sustainable Agriculture and Biogas
European Parliament

- Assess the prospects for a European directive promoting the production and utilisation of biogas
- Hear the latest reports on global biogas production and key developments in biogas utilisation in Europe, Asia and the US
- Examine the latest developments in liquid biogas and using biomethane in commercial diesel engines
- Optimise gas recovery and utilisation in landfill gas operations
- Integrate biogas production with ethanol and biodiesel projects
- Optimise greenhouse gas savings and maximise the energy balance
- Share insights of leading biogas producers on successful planning, construction and operation of biogas plants
- Examine prospects for increased feed-in of biogas to natural gas grids

Optimising Production and Upgrading of Biogas

A Practical One Day Seminar

27 October 2008
Crowne Plaza Europa Hotel, Brussels

- Examine the biogas substrate and feedstock market and future sourcing strategies for biogas producers
- Compare the efficiency of various waste management technologies with anaerobic digestion processes
- Identify advanced anaerobic digestion technologies which will best suit your business
- Assess advanced technology options for cleaning and upgrading biogas for biomethane in transport and pipeline quality gas

Register online at www.agra-net.com/biogas

The 2nd Global Biogas Congress

Tuesday, 28 October

8.15 Registration and Welcome Coffee

9.00 Opening Remarks from the Chair

Stuart Hayward-Higham

Head of New Market Business Development
SITA UK

9.10 KEYNOTE PRESENTATION

Progress in Biogas: Recent Key Developments in the Biogas Industry

- Examining production and consumption of biogas across Europe
- Identifying the most significant opportunities for industry expansion in the short and medium term
- Progress of biogas in comparison with liquid biofuels - bioethanol and biodiesel

Ulrich Schmack

Chief Executive Officer
Schmack Biogas, Germany

9.40 Developing an EU Directive for Biogas Production: A Perspective from the European Parliament

- Findings and recommendations from the draft report on biogas
- Assessing the likely impact of an EU directive on the biogas industry

Csaba Sándor Tabajdi MEP

Rapporteur, Sustainable Agriculture and Biogas
European Parliament

10.10 Increasing Support for Biogas Production and Utilisation in the EU

- Prospects for standardising and unifying member states' policies on biogas
- Latest developments in the EU's agenda on biogas

Emese Kottász

Policy Officer, Renewable Energy Policy Unit, DG TREN
European Commission*

10.40 Questions

10.50 Refreshments

11.20 Rewards and Risks in the Anaerobic Digestion Sector

- Attractiveness of the anaerobic digestion sector and available opportunities
- Assessing the types of projects to focus on: feedstock, scale and product
- Is the combination of market drivers and financial incentives a secure route to high margin business opportunities?
- Analysing the maturity and risk profile of current technology

Dr Egan Archer

Director
Juniper Consultancy Services, UK

The European Perspective

11.50 Profitable Biogas Production: The Swedish Experience

- Operating a full-scale commercial plant
- Building up a local market for biogas products
- The role of government support in establishing a market for biogas

Bernt Svensén

Project Manager Biogas Väst
Business Region Göteborg AB, Sweden

12.20 Prospects for Increased Support for Biogas in the UK

- Impact of the recent announcement to provide £10 million of government funding for a new anaerobic digestion demonstration programme
- Creating additional support for anaerobic digestion under the Renewables Obligation Certificate Scheme
- Potential volumes of biogas recovery and utilisation in UK
- Making biogas economically attractive for UK industry

Dr Nina Sweet

Anaerobic Digestion Technical Specialist
WRAP (Waste & Resources Action Programme), UK

12.50 Questions

1.00 Lunch

International Biogas Markets

2.30 Expanding the US Biogas Market

- Current size and structure of the US biogas market
- Federal and state programmes supporting the biogas industry
- Examining landfill gas-to-energy projects
- Opportunities in anaerobic digestion of multiple waste streams
- Cost efficient upgrading of biogas to CNG and LNG quality

Kurt Roos

Programme Manager

Environmental Protection Agency - AgSTAR Programme, USA

3.00 An Asian Perspective: Developments in Anaerobic Digestion Technology in China

- Comparing and contrasting biogas projects in Asia, USA and Europe
- Developments in medium to large scale biogas projects
- Technological advances in biogas capture and utilisation in Asian nations

Xiang Xin

Centre of Energy and Environmental Protection
Ministry of Agriculture, China

Generating and Exploiting Pipeline Quality Biogas

3.30 Challenges and Opportunities in the Feed-in of Biogas to the Natural Gas Grid

- Ensuring the necessary conditioning of biogas and meeting requirements for feeding in
- Challenges in creating a supply system to feed-in biogas from the local area to the grid
- Critical investment, maintenance, planning and operation issues

Friedrich Wolf

Managing Director

E.ON Bioerdgas GmbH, Germany

4.00 Questions

4.10 Refreshments

Opportunities in Landfill Gas Projects and Cogeneration

4.40 Developing Landfill Gas Projects Using the Clean Development Mechanism: Lessons Learnt from Veolia's International Projects

- Framework for developing a CDM project
- Advantages of registering a landfill gas project under the CDM
- Examples of Veolia's international CDM projects

Lionel Bondonis

Project Manager, Greenhouse Gas Department
Veolia Environmental Services, France

5.10 Using Biogas in Fuel Cells for Onsite Cogeneration

- Advantages of biogas cogeneration
- Examining the business case for fuel cell CHP
- Possibilities to generate additional revenue from surplus power

Richard Bennett

Chief Executive Officer
Pzero, UK

5.40 Questions

5.50 Closing Remarks from the Chair

6.00 Networking
Cocktail Reception



Register online at www.agra-net.com/biogas

27-29 October 2008, Crowne Plaza Europa Hotel, Brussels

Wednesday 29 October

8.30 Welcome Coffee

9.00 Opening Remarks from the Chair

Christopher Maltin

Chairman

Organic Power, UK

Biomethane for the Transport Industry

9.10 Biomethane for Transport: The BIOGASMAX Project and the Case of Stockholm

- Demonstration of biomethane vehicles in five European cities
- The experiences of biomethane for transport in Stockholm
- Public support and conditions for market growth

Björn Hugosson

Project Manager

Clean Vehicles in Stockholm, Environment and Health Administration, Sweden

9.40 The Potential of LBG as a Future Vehicle Fuel

- Sustainable biogas factories in our future society
- Biogas versus other sustainable sources
- LBG (liquefied biogas) the next fuel generation

Hans Kättström

President and CEO

ScandinavianGtS, Sweden

10.10 Dual Fuel Technology: Utilising Biomethane in Commercial Diesel Engines

- Examining the technology that enables the integration of biomethane with natural gas and liquid diesel
- Challenges in upgrading biogas to biomethane for diesel engines
- Lowering carbon emissions and saving on fuel costs

John Pettitt

President and Chief Executive

Clean Air Power, UK

10.40 Questions

10.50 Refreshments

Financing and Investing in Biogas

11.20 Financing a Biogas Business: A Case Study

- Formulating a framework agreement and conditions for investment
- Attracting investors

11.50 Financing Biogas Projects: the Equity and Debt Financing Perspective

- The investor's perspective on biogas projects
- Financial structuring of biogas projects
- Risk analysis and risk prevention

Robert Maier

Head of Corporate Finance and Structured Finance

Raiffeisenlandesbank, Austria

Andreas Glatzer

CEO

RENERGIE, Austria

12.20 Questions

12.30 Lunch

Closing the Loop: Integrating Biogas and Biofuels Projects

2.00 Maximising Energy Gains: Biogas Production from DDGs in a Bioethanol Production Plant

- Stillage processing for biogas
- Dual production of bioethanol and biogas from biomass
- Biogas utilisation for turbine steam and electricity generation

Dr Peter Pötschacher

Director, Technology Renewables, Lurgi, Germany

Hans Rasmus Holte

Technical Manager Bioethanol, Cambi, Norway

2.30 The Closed Loop System: The Biogas-fuelled Biofuels Plant

Russell Teal

President

Biodiesel Industries, USA

3.00 Latest Developments in the Anaerobic Treatment of Biofuels Residues

- Increasing the efficiency and output of fuel supply
- Maximising the economic viability and the CO₂ balance of bioethanol
- Organic fraction of municipal solid waste

Dr Stefan Kromus

Chief Executive Officer

Enbasys, Austria

3.30 Questions

3.40 Refreshments

Plant Development, Construction and Operation

4.10 Building and Operating a Successful Biogas Plant

- Key considerations in planning and construction
- Operation and maintenance issues
- Maximising value and output
- Effectively managing the biological process

Ludwig Dinkloh

Vice President, Sales and Technology

UTS Biogastechnik, Germany

4.40 Developing Anaerobic Digestion Projects in the UK: A Case Study of Bioganix

- Funding the project - examining available options and accessing government funds
- Design, installation and management of an anaerobic digestion plant
- Ensuring adequate substrate supplies and managing ongoing anaerobic digestion management issues
- Integrating anaerobic digestion with existing collection systems and other waste management processes
- Integrating CHP

Nick Helme

Managing Director

Bioganix, UK

5.10 Questions

5.20 Closing Remarks from the Chair

5.30 End of Conference

* Subject to final confirmation

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The 2nd International Global Biogas Congress will attract an audience of senior decision-makers, which will provide you, as a sponsor or exhibitor, with excellent opportunities for meeting potential clients.

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A Practical One Day Seminar:

Optimising Production and Upgrading of Biogas

27 October 2008 ■ Crowne Plaza Europa Hotel, Brussels

8.15 Registration and Welcome Coffee

8.55 Introduction to Seminar

Dr Egan Archer

Director

Juniper Consultancy Services, UK

Production

9.00 Waste-to-Energy Technologies and Biogas

- How is the market for anaerobic digestion likely to grow in the future, compared to other waste management technologies?
- Current status
- Reference project experience
- Managing process outputs
- Reducing biodegradability
- Key challenges in handling different types of feedstock

Dr Egan Archer

Director

Juniper Consultancy Services, UK

9.45 Questions

10.00 Anaerobic Digestion: Experience in Operations in Biogas Production from Food Waste

- Operating an anaerobic digestion plant for food waste
- Utilising output material
- What is the current experience of anaerobic digestion of food waste?

Dr Joan Plans

Biogas Plant Operations Manager

HERA Holding, Spain

10.45 Questions

11.00 Refreshments

11.30 New Advances in Anaerobic Digestion Technologies

- Improved digester designs and demonstrated biogas production
- Managing the environmental factors: optimum temperature, acidity and reaction times
- CHP integration and optimisation
- Treatment of digestate liquors and production of high quality biosolids
- Examining the different types of anaerobic digestion technologies

Frank Rosager

Managing Director

Xergi A/S, Denmark

12.15 Questions

12.30 Lunch

1.30 State of the Art Technology in Anaerobic Digestion of Municipal Solid Waste

- Assessing the level of European organic household waste
- Developmental trends of different digestion technologies
- Maximising heat recovery: real case examples
- Applications for energy crops: experiences with horizontal and vertical digesters
- Integration of solids digestion with aerobic treatment
- Maximising biogas production

Luc de Baere

Managing Director

Organic Waste Systems, Belgium

2.15 Questions

2.30 Refreshments

Biogas Upgrading Technologies

3.00 Advanced Technology Options for Cleaning and Upgrading Biogas

- Overview of biogas upgrading technologies to produce biomethane from biogas
- Overview of biogas upgrading projects with different technologies realised in Europe
- Biomethane quality requirements for different applications (vehicle fuel, gas injection)
- Future technical requirements of biogas upgrading technologies
- Practical experiences of biogas upgrading in European biogas projects and production of biomethane as vehicle fuel and for gas injection

Dr Dieter Jürgen Korz

Managing Director, German Branch

Ros Roca, Germany

3.45 Questions and Closing Remarks

4.05 End of Seminar

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The biogas sector is booming, as high energy prices accelerate efforts to find new sources of renewable power. Pressure is mounting for legislation at European level to promote the use of biogas and MEPs have urged both the Commission and Member States to exploit the huge potential of biogas. **Csaba Sándor Tabajdi, Member of the European Parliament and Rapporteur** for the recent report on Sustainable Agriculture and Biogas will discuss his findings including recommendations for additional funding, increased support for 'green electricity' and 'green gas' and to ensure that funds from EU and national programmes go to the most efficient and sustainable installations.

Emese Kottász*, Policy Officer with the Renewable Energy Policy Unit of DG TREN at the European Commission, will assess the likelihood of a European Biogas Framework Directive.

The German government has taken first steps towards crafting a 'biogas feed-in law' that forces pipeline operators to open their networks for biogas. **Friedrich Wolf, Managing Director of E.ON Bioerdgas** will examine the challenges faced by utility companies in complying with this new law and the opportunities to create new renewable energy partnerships with biogas producers.

Significant progress in the recovery and utilisation of landfill gas for renewable energy projects has been made across the world. The Congress will examine the latest developments in electricity generation from landfill gas and opportunities for landfill gas in cogeneration.

The Congress will examine the advantages of liquefying biogas and the emergence of dual fuel technology where biomethane is added to commercial diesel engines.

Biogas is playing an increasingly important role in maximising the energy balance in biofuels plants and **Russell Teal, President of Biodiesel Industries**, cited as the world's first fully renewable energy-powered plant to produce biodiesel, will highlight the advantages of the closed loop process. Representatives from **Lurgi, Cambi** and **Enbasys** will also examine the latest technological developments in the anaerobic digestion of biofuels residues and DDGs.

The **2nd Global Biogas Congress** features speakers at the highest level in the biogas industry. Don't miss this unique opportunity to hear from these experts on the latest industry developments and hear key strategies to commercialise biogas. Register today and take this opportunity to network with senior decision makers from across the biogas value chain!



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Unique news, analysis and statistics on fuel ethanol, biodiesel, industrial and beverage alcohol with price, production, consumption and trade statistics. Includes regular estimates of world ethanol and biodiesel production. 24 issues online and in print, plus daily online news and online archive.

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28-29 October 2008

One Day Seminar "Optimising Production and Upgrading of Biogas"

27 October 2008

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CONFERENCE DATE & VENUE

27-29 October 2008

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