Waste is a Resource!

From Waste to Energy
To Energy from Waste

Case Studies from Estonia, Switzerland, Germany, Czech Republic, Holland.....

Vertical BREFs versus horizontal BREFs and their BATs

SPEAKERS

- Ella Stengler, CEWEP
- Wolfgang Klett, Köhler & Klett
- Paul Tempany, Consultant, Independent
- Jana Kivimägi, City of Tallinn
- Martin F. Lemann, AVUT Consulting
- Jaromir Manhart, Ministry of Environment Czech Republic
- Frans Lamers, KEMA Consulting
- Ole Hedegaard Madsen, Babcock & Wilcox Vølund
- Lennart Gustavsson, Götaverken Miljö
- Dieter O. Reimann, CEWEP
- Asgar Danielsen, Dublix Engineering A/S
- Albert Bossart, ABB Waste-to-Energy Plants
- Edmund Fleck, ESWET
- Marcel van Berlo, Afval Energie Bedrijf
FROM WASTE TO WATTS

This conference will bring together the key-players working with WtE from all over Europe. You will develop your skills in optimizing the power plants and get a higher production with higher quality.

Meet representatives from the established companies in Western Europe and the up and coming companies in central and Eastern Europe. Listen to exciting case studies from Estonia, Switzerland, Germany, Czech Republic and Holland.

You will learn about the granting procedures and supporting tools for WtE in Europe, investment opportunities in Eastern European countries, and the latest outcomes of the EU Directives.

Join us in Brussels for two intensive days and learn more about the latest developments and what impacts they have on your business.

Best regards,
Johan Wendt
Project Manager
Energyforum

Conference day 1: Wednesday 12th of March

9.00-9.30: Registration

9.30-9.40: Chairman Elia Stengler opens the conference

9.40-10.25: Brussels’s legislation pipeline and how it affects Waste-to-Energy

• From Waste to Energy to Climate protection in light of the Waste Framework Directive. The “energy package”, e.g. the Renewables Directive.
• The directive on industrial emissions and how to use the BREFs in an intelligent way.

Elia Stengler, Managing Director, CEWEP

Elia Stengler is the Managing Director of CEWEP (Confederation of European Waste-to-Energy Plants) since July 2003. CEWEP represents 340 Waste-to-Energy plants from 17 countries. Previously she was the Managing Director of ITAD the German association of Waste-to-Energy plants, and prior to that she was the Director of AGS the German association of hazardous waste companies.

10.25-10.45: Coffee and tea

10.45-11.15: The novella of the waste frame direction - important changes for the waste management in EU-member states in the German point of view

Waste hierarchy, principle for the best environmental option and exception for reasons of technical feasibility, economic viability and environmental protection. The end of waste status and accordance with specific criteria developed under defined conditions, Bio-waste measures in the member states, assessment by the Commission, start for a european legislation.

Wolfgang Klett, Senior Partner, Köhler&Klett

Wolfgang Klett is senior partner of a law firm, specialized in environmental and technical law in Frankfurt, Berlin and Brussels. He studied first town-planning at RWTH (that means Technical University) Aachen, finished as Dipl.-Ing., worked as scientific assistant in an ecologic institute while studying law at Cologne and Munich university, after the two examinations he started as lawyer, later on he obtained a doctoral degree as Dr.-Ing. at RWTH Aachen.

11.15-12.00: The development of the Energy Efficiency BREF

• A request not to be refused - why this was a late addition to the BREF work programme.
• To be or not to be... BAT: the changing expectations for the conclusions.
• What the Energy Efficiency BREF contains.
• How the BAT conclusions work together.
• Future developments and how the BREF and its contents may be used.

Paul Tempary, Consultant, Independent

Paul Tempary is a chartered chemist and chartered scientist with 39 years experience in industry and in industrial pollution prevention and control. He has been a director of an IPPC installation, a pollution inspector, and a manager for R&D, prevention and control. He has been a director of an IPPC installation, a pollution inspector, and a manager for R&D, prevention and control. He has been a director of an IPPC installation, a pollution inspector, and a manager for R&D, prevention and control.

12.00-13.15: Lunch

13.15-14.00: Incineration versus recycling – future options in Tallinn

By the year 2013 an incineration plant will be built next to Tallinn changing the whole principle of the current waste management structure:
• The role of city government in waste management is mainly administrative, however essential.
• Waste collection and treatment facilities in Estonia are mostly privatized.
• Tallinn has implemented source sorting for packaging waste, old paper, green and biodegradable kitchen waste, hazardous waste and WEEE.
• Tallinn generates 1/3 of municipal waste of Estonia which is privatized.
• Waste collection and treatment facilities in Estonia are mostly privatized.

Jana Kivimägi, Head of Waste Management Division, City of Tallinn

Jana Kivimägi is the Head of Waste Management Division in Tallinn City Government Environment Department. She has a Master degree in Natural Sciences (2005). The development trends of Tallinn waste management was analysed in her master thesis. She has worked for TallinnCity Government since October 2003. In the current presentation Jana Kivimägi has focused on the future options for municipal waste incineration in Tallinn and the effect of incineration on waste management market and particularly on the separate collection of recyclables from the administrative aspect.

14.00-14.30: Coffee and tea

14.30-15.15: Waste handling in Switzerland demonstrated at the situation of the city of Zurich

Swiss legislation
• Incineration and energy handling
• Emission limits
• What happens with output products

Martin Lemann, Founder and Owner, AVUT Consulting

Dr. Martin F. Lemann, AVUT Consulting, Dübendorf, Switzerland. Since June 2000, Dr. Martin F. Lemann is the head of AVUT Consulting – a registered company in the Commercial Register of Businesses in Zurich. After getting the doctors degree at the Swiss Federal Institute of Technology in Zurich, he worked between 1977/1983 at an Engineering office in a general environmental context, focusing on Exhaust Gas Filtration and Purification.

15.15-15.45: Land filling practice and Waste to Energy Techniques in the Czech Republic

Land filling and reuse of landfill gas.
• Energy recovery of fuels made from waste and waste incineration in the country.
• Biodegradable waste and anaerobic digestion.

Jaromír Manhart, Senior Expert, Ministry of Environment Czech Republic

Jaromír Manhart is a senior expert at the Ministry of Environment of the Czech Republic, Waste Management Department, Unit of Waste Technologies. He is responsible for waste management of hazardous wastes with special interest in persistent organic pollutants (POPs), PCBs and European Waste Lists. He experienced in the implementation of the European Community law into the law system of the Czech Republic since 2002.

15.45-16.30: Developments in energy production from MSWI-installations in the Netherlands

• Developments in MSWI capacity in the Netherlands.
• Effects on electricity production from MSWI in the Netherlands.
• Developments in heat supply from MSWI in the Netherlands.
• Effects on CO2 – emissions.
• Comparison with the international situation.

Frans Lamers, Senior Consultant, KEMA Consulting

Frans Lamers is a senior consultant in the field of Waste to Energy. He was educated as an industrial mineralogist. He started working in the general field of waste management in 1983 and works for KEMA since 1993 where he has gradually focused on Waste to Energy. Since 2000 he works as an account manager and senior consultant in the field of Waste to Energy. He is member of ISWA and VGB working groups on waste to Energy.

16.30 – 17.00: Questions

19.00: Conference dinner

Register on our web: www.energyforum.com or by phone: +46 8 586 197 00
Ole Hedegaard Madsen is Director for Technology & Marketing, Babcock & Wilcox Velund. He has a M.Sc. in mechanical and combustion engineering from the Technical University of Denmark, Copenhagen. He is member of the board in The Danish Committee for Waste (DAKOFa) the Danish waste management organisation. He is member of the WGTT Working Group Thermal Treatments, ISWA, International Solid Waste Association.

9.30-10.00: Flue gas cleaning and energy recovery by using absorption heat pumps and chillers.

- Wet flue gas cleaning with integrated dioxin removal.
- Far reaching heat recovery by the use of absorption heat pumps.
- Absorption chillers to utilize heat.

Lennart Gustavsson, Managing Director, Götaverken Miljö
Lennart Gustafsson is since 2001 managing director of Götaverken Miljö AB, and has been working with energy from waste plants since late 1970. At the beginning of 1980 he started up the first municipal solid waste fired fluidised bed boiler in Sweden, and has after that been employed as technical manager by different boiler manufacturers up to 2001.

10.00-10.30: Coffee and tea

10.30-11.00: Vertical BREFs versus horizontal BREFs and their BATs as best available techniques

- IPPC Directive and IPPC permit.
- Overview and difference between BATs in vertical and horizontal BREFs.
- BAT examples from BREF Waste Incineration and Draft BREF Energy Efficiency (ENE).
- BREF as guidance document or mandatory.
- BREF data as basis for benchmarking.
- Monitoring, measuring and balancing for the review of BREFs.

Dieter Reimann, Scientific & Technical Advisor to CEWEP
Dieter O. Reimann is a doctor of sanitary engineering. He studied at the Technical University of Stuttgart and at the Technical University of Berlin where he finished his PhD in environmental technology. He has a life long experience of working as a consultant and expert within WtE. He is former director for the extension project HR-AVI. He has 20 years of experience from the waste combustion industry in Europe and in the Far East. Dieter Reimann has his main focus on the process operation particular related to the advanced optimization of the Waste to Energy plant.

11.45-12.00: Lunch

12.45-13.30: Less waste of energy in a waste to energy plant

- Energy efficiency from the source (converting primary energy) to the Draft.
- Potential of energy savings in your WtE process with a waste controller “WACS”.
- Why should you have a look at standard equipment like Motors and Transformers.
- Why will a Frequency Converter (VSD) help improve the energy efficiency.
- Impact of a not correctly sized drive (e.g. for a fan).

Conclusions
Albert Bossart, Head of Sales, ABB
Albert Bossart is a dipl. Eng. Engineer with focus on process control with additional degree in Marketing and Sales. He has practical experience on planning, engineering & commissioning for drives and control systems on big newspaper presses, induction furnaces and power plants. Key Account Manager and specialised Sales in IT, Telecom, eMarketplace and for capital systems like Print Finishing. Since August 2008 he is head of sales at ABB for WtE plants.

13.30-14.00: Coffee and tea

14.00-14.45: Waste is a Resource (from Waste-to-Energy to Energy-from-Waste)

- Position of modern thermal waste treatment technology in sustainable waste management.
- Contribution of Waste-to-Energy to saving of resources incl. avoidance of greenhouse gas emissions.
- Ways to make more out of the energy recovered from the waste.

Marcel van Berlo, Technical Advisor, Aalst Energie Bedrijf
Marcel van Berlo has over 15 years experience in the operation, design and optimisation of Waste-to-Energy plants. He developed the High-Efficiency WIE concept and is giving many presentations about 4th-generation WIE. He is publishing (PhD tractat at VU university of Amsterdam) about the backgrounds of WIE, project definition, economics and decision making for large long term investment projects. In 2001 he became advisor of the director for the extension project HR-AVI.

15.30-16.00: Questions and Closing of the Conference
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Fees and alternatives:
Conference: 1 950 €
Academics: Please contact us for prices
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Accommodation:
We recommend you to stay at the hotel where the conference will take place
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Contact Craig Tieman to discuss your marketing possibilities.
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Waste is a resource!
How to get there
The hotel is located within 2 minutes walking distance from the train station “Luxembourg” and there is a bus stop close to the Radisson SAS EU Hotel with connection in all directions. 3.5 kilometres from Midi train station with Thalys and Eurostar connections.

COMING EVENTS:
Wind Power in the Nordic and Baltic Region

Technical Analysis and Trading Psychology for Power Traders in Europe
13-14 February 2008, Brussels.

Sustainable Hydropower in Europe

Smart Metering - European Opportunities and Solutions

Investing & Financing Renewable Energy in Russia
April 2008, Stockholm.