Waste Management and Energy Recovery

Strategies to Optimise Recovery and Conversion of Waste into Energy

Berlin, Germany

26th & 27th April 2010

Waste is a very promising resource when handled properly, enabling the energy market to reduce greenhouse gas emissions and increase energy generation.

Attending this marcus evans Forum Will Enable You to:

- Optimise energy recovery and conversion from waste
- Assess the potential prospect of waste-to-energy development
- Achieve landfill diversion targets
- Discuss alternative waste treatment: Mechanical Biological Treatment

Learn from Key Practical Case Studies:

- Vattenfall Europe New Energy GmbH enhancing energy recovery from incineration plants
- ACEA Pinerolese Industriale SpA building the future with integrated waste management facilities
- Covanta Energy discussing issues hindering infrastructure development
- Ecodeco examining the need for clean waste input achieved through source segregation of municipal waste
- Lafarge assessing the benefits of co-processing
- Municipal Waste Europe AISBL looking at suitable and sustainable solutions, especially with a long-term perspective

marcus evans Expert Speaker Panel:

Dr. Jan Grundmann
Head of Project Development Department
Vattenfall Europe New Energy GmbH

Rosario Carlo Noto La Diega
Managing Director
Gesenu SpA
Chair and Managing Director
Sect SpA

Carsten Spohn
Managing Director
ITAD (German Association of Waste-to-Energy Plants)

Davide Mainero
Plant Manager
ACEA Pinerolese Industriale SpA

Daniel Lemarchand
VP Industrial Ecology Central Europe/CIS
Lafarge

Amalia Cerdà
Technical Director
AEVERSU / Tirme S.A.

Dr. Ing. Cestmir Hrdinka
Head of Technology Unit
Ministry of the Environment of the Czech Republic, Waste Department

Ian Price
Senior Development Manager
Covanta Energy

Sari Calabrese
Senior Representative
Ecodeco

Neville Roberts
Technical Director
Cemex

Dr. Alexander Gosten
Head of Waste Management and Treatment
Berliner Stadtreinigung (BSR)

Enzo Favoino
Chair, WG “Biological Treatment”, ISWA
Scuola Agraria del Parco di Monza

Christof Delatter
Coordinator Interafval
VVSG (Association of Flemish Cities and Municipalities), Belgium

Gunnell Klingberg
Secretary General
Municipal Waste Europe AISBL

Jean-Luc Bonte
Director
MIROM

Eng. Riccardo Vescovo
Sales Manager Heat Recovery Department
Turboden

Business Development Sponsor:
08:30 Registration and Coffee
09:00 Chairperson’s Opening Remarks

** POTENTIAL DEVELOPMENT OF WASTE-TO-ENERGY **

09:10 Case Study
UK Specific Challenges: Development for Waste Infrastructure
- Discussing issues hindering infrastructure development e.g. lack of guarantee
- Difficulties to overcome to have a project come to life
- Improving the timescales for bids to be completed
- Assessing funders perception and appetite for risk

Ian Price
Senior Development Manager
Covanta Energy

09:50 Case Study
Building the Future with Integrated Waste Management Facilities
- Choosing an integrated system
- Organic fraction for energy and soil conditioner
- Cost savings potential
- Reducing waste disposal and energy cost
- Highlighting the need to match community expectation

Davide Mainero
Plant Manager
ACEA Pinerolese Industriale SpA

** OPTIMISING ENERGY RECOVERY AND CONVERSION FROM WASTE **

11:00 Potential Drivers and Current Barriers of Waste-to-Energy (WtE)
- Overview of the country characteristics
  - Capacities
  - Energy output
  - Climate protection potential
- Highlighting the social, political and economical drivers of WtE
- Overcoming barriers to develop WtE
- Exploit a framework to overlap barriers and utilise drivers

Carsten Spohn
Managing Director
ITAD (German Association of Waste-to-Energy Plants)

11:40 An Industrial Perspective: Recovery of Waste in Cement Kilns
- Cement plant = energy recovery plant
- Promotion of resource recovery
- Competition with incinerators
- Assessing the benefits of co-processing
- WBCEO’s Cement Group formulating a set of waste recovery safety measures

Daniel Lemarchand
VP Industrial Ecology Central Europe/CIS
Lafarge

12:20 Case Study
Waste to Energy in Spain: From an Overview to a Specific Case
- Assessing the challenges of dealing with waste on an island like Majorca
- Outlining the different technologies usage

Amalia Cerdà
Technical Director
AEVERSU / Tirme S.A.

13:00 Luncheon
14:00 Coffee and Networking

14:30 Case Study
Enhancing Energy Recovery from Incineration Plants
- Overview of the main political, economical, operational and technical trends in incineration
- The transition from landfill to incineration
- Burning waste to recover energy and supply district heating schemes or use in industrial processes
- Ambitions in optimising energy efficiency in waste incineration

Dr. Jan Grundmann
Head of Project Development Department
Vattenfall Europe New Energy GmbH

15:10 Case Study
Managing High Quality Composting Plants
- Assessing the environmental management of biowaste
- Minimising greenhouse gas emissions and eliminating uncertainty
- Is the anaerobic digestion cycle at a stand point?
- Analysing anaerobic digestion vs composting

Rosario Carlo Noto La Diega
Managing Director
Gesenu SpA
Chair and Managing Director
Secit SpA

15:50 Afternoon Tea and Networking

16:20 Case Study
Energy Recovery Portfolio of a Municipal Waste Management Company: BSR
- Reviewing the approach of municipal waste management companies
- Directive 2008/98/ EC
- Achieving landfill targets
- Incinerator
- Biological waste
- Future trends

Dr. Alexander Gosten
Head of Waste Management and Treatment
Berliner Stadtreinigung (BSR)

17:00 Interactive Panel Discussion
Improve Public Acceptance and Extend Communications with Stakeholders
- Build up an understanding and benefit from the negative perception of the public
- Create a positive view of waste, turn it into a resource not a problem
- The role of third party advocates
- Making use of media and instruments

Panellists:
Dr. Alexander Gosten
Head of Waste Management and Treatment
Berliner Stadtreinigung (BSR)

Rosario Carlo Noto La Diega
Managing Director
Gesenu SpA
Chair and Managing Director
Secit SpA

17:40 Chairperson’s Closing Remarks and End of Day One
08:30 Registration and Coffee
09:00 Chairperson’s Opening Remarks

ACHIEVING LANDFILL DIVERSION TARGETS

09:10 Opening Address
Example from Central Europe – Czech Outlook: Recent Trends and Emerging Issues
• Elaborating an effective waste prevention program
• Raising demand on secondary raw materials and recycled products
• Increasing the use of biowaste as fuel, replacing non-renewable energy sources
• Energy recovery as a part of a waste management strategy
• Minimisation of landfill in general and of biodegradable waste in particular

Dr. Ing. Cestmír Hrdinka
Head of Technology Unit
Ministry of the Environment of the Czech Republic, Waste Department

09:50 Case Study
Guaranteeing Recycling in an Incineration Driven Market
• Legal, ecological and economical drivers for diverting waste from landfills
• Waste management policy and incineration in Flanders
• Risks of overcapacity in incineration
• Consequences of the new waste framework directive
• Will stronger markets solve problems or create problems?

Christof Delatter
Coordinator Interafval
VVSG (Association of Flemish Cities and Municipalities), Belgium

11:00 Waste Management: A Service of General Interest
• Waste management as a fundamental need for a society
• Reflecting the complexity and differences of our different societies with the complexity of the service
• Assessing varying needs in different regions – possibilities and risks
• A local perspective is needed to find suitable and sustainable solutions, especially with a long-term perspective

Gunnel Klingberg
Secretary General
Municipal Waste Europe AISBL

11:40 MBT in EU Strategies for the Management of Biowaste and Residual Waste: Trends, Experiences and Regulatory Aspects
• MBT as a pre-treatment for residual waste
• Why MBT: role and integration to separate collection and final disposal
• Types of MBT and operational goals
• Regulatory aspects: acceptance at landfill sites and related test methods

Enzo Favoino
Chair, WG “Biological Treatment”, ISWA
Scuola Agraria del Parco di Monza

INNOVATIVE TECHNOLOGIES: WORKING FOR A BETTER TOMORROW

12:20 Case Study
Optimisation of Urban Waste Management Systems: Contribution to CO₂ Reduction
• Waste management systems: present situation in Europe
• Examples of actual management systems
• Future trends in quality and quantity of wastes
• Waste management system: role of the best available technologies
• Examples of possible optimisations

Sari Calabrese
Senior Representative
Ecodeco

13:00 Luncheon
14:00 Coffee and Networking

14:30 Case Study
Trends and Drivers in Solid Recovered Fuel (SRF) Production and Use across Europe
• Planning for change – recent evolution in SRF production across Europe
• Testing and analysis
• Potential future development trends and implications for the industry

Neville Roberts
Technical Director
Cemex

15:10 Efficient, Clean and Reliable Electricity Production
• Assessing the most efficient thermal cycle possible: Organic Ranking Cycle (ORC)
• Improving waste-heat recovery by using a cost-effective and adaptable solution
• Increasing the efficiency and output of power plants
• Enhancing energy security and lowering emissions

Jean-Luc Bonte
Director
MIROM

16:20 Interactive Panel Discussion
Reaching Landfill Diversion Targets
• Can EU members reach this value limit via waste incineration or MBT? Are they good enough?
• Why Poland chose to build 12 incineration plants over MBT?
• What will be the right solution to fulfill those targets?
• What financing instruments are available to develop the waste infrastructure needed?

Panellists:
Eng. Riccardo Vescovo
Sales Manager Heat Recovery Department
Turboden

Rosario Carlo Noto La Diega
Managing Director
Gesenu SpA
Chair and Managing Director
Sectr SpA

Christof Delatter
Coordinator Interafval
VVSG (Association of Flemish Cities and Municipalities), Belgium

17:00 Chairperson’s Closing Remarks and End of Conference
Rosario Carlo Noto La Diega  
Laurea in Electronic Engineering in Bologna – Enrolled to the Order of the Engineers in Rome n.15016.  
– President of FEAD, European Federation of Waste Management and Environmental Services  
– Former President of FISE, Federazione Imprese di Servizi (Confederation of Italian Industry, Services Branch)  
– Former President of C.I.C., Italian Composting Association  
– Former President of ISWA, International Solid Wastes And Public Cleaning Association ITALIA  
From 1983 he has been the Managing Director of GESENU S.p.A. – Perugia, President and Managing Director of AMA INTERNATIONAL, President of I.E.S. – Internat. Environment Services Company (S.A.E) – Il Cairo, President of A.A.E.C. – AMA ARAB ENVIRONMENT COMPANY – Giza (Egypt), President of AMEST SpA. z o.o. – Warsaw (Poland), President of the Survey Council of Green Utility – Energie Rinnovabili – S.p.A. – Roma. From 2001 he has been President and Managing Director of SECIT S.p.A. and Technical Director of Sorain Cecchini S.p.A. – Roma.  
Author of several research works and projects for the European Union, the Italian Research Centre (CNR) and the Italian Ministry of Research.

Carsten Spohn  
is the managing director of ITAD since 2007. In this role he is also member of several working groups of CEWEP, the Confederation of European Waste to Energy Plants. He is also presenting the subject area “Waste to Energy” primarily at German and European conferences. The Engineer started his occupational career at the chemical industry (German Solvay Group) and got in contact with the waste management sector in 1995, when he joined a team, which was projecting, building and starting operation of the waste management centre “Asdonkshof” in the Lower Rhine area of Germany with different treatment plants including a waste incinerator. After the start-up phase he became inter alia head of the waste management department.

Daniel Lemarchand  
is a Chemical engineer with a PhD in Management of Environmental Issues. He has been involved in the varying positions below:  
– CETE: Treatment of drinking water  
Development of water treatment with activated carbon.  
Agence Nationale pour la Récupération et l’Elimination des Déchets (French EPA)  
Regional adviser for waste treatment issues.  
Management of Hazardous Waste Department.  
– SCORI: Valorization of hazardous wastes in cement kilns  
Manager of technical department  
Regional Director: Management of regional Agencies, Development of new facilities.  
– TERIS: Treatment of hazardous wastes  
International Department Director  
Supervisor of international subsidiaries (Australia, Thailand, Argentina, Brazil)  
– SCORI: Valorization of hazardous wastes in cement kilns  
Executive Managing Director  
– LAFARGE: Cement Company  
– VP Business development resources recovery  
Daniel Lemarchand recently moved to VP Industrial Ecology Central Europe/CIS.

Ian Price  
is a senior member of Covanta Energy Limited’s business development team in the UK and is currently working on a number of local authority PFI/PPP waste treatment contract bids as well as assessing opportunities for merchant facility development. Ian has 15 years’ experience in the environmental services industry, having worked in both operational and business development roles for a number of companies. Ian has a strong track record of working with both public and private sector organisations. Prior to his appointment to Covanta, Ian held the position of Development Manager for the Waste Recycling Group (WRG) where he project managed bids in the waste PF/PPP arena. He was also involved in non-PFI/PPP tendering and client relationship management with local authorities, material reprocessors, and other organisations in the environmental services sector. Before that he worked at Biffa as a General Manager, where he was responsible for a number of waste disposal and recycling facilities. Ian also has a degree in Chemistry and Geology from the University of Manchester, as well as an MBA from the University of Bath School of Management.

Christof Delatter  
From April 1994 to August 1999 he was an environmental civil servant at the Flemish municipality of Wemmel: responsible for the execution of environmental agreements, organisation of waste collection, internal environmental programme, handling of environmental permits, control, conservancy of nature and public green zones. From September 1999 to present: He is a Member of Staff at the Vereniging van Vlaamse Steden en Gemeenten (VVS – Association of Flemish Cities and Municipalities): responsible for intermunicipal cooperation, publicprivate partnerships and waste policy. Became a staff member of the Association of Flemish Cities and Municipalities in 1999 and coordinator of INTERAFVAL, which is the cooperation between the Association and all Flemish intermunicipal companies for waste management. Has close contacts with the municipalities, intermunicipal organisations as well as with the central government and Cabinet officials. In a short time, INTERAFVAL became a prominent spokesperson on MSW-management for the regional government and official departments. Participates on behalf of INTERAFVAL and the Association of Flemish waste policy consultative bodies and negotiations. Active member of the CEMR Ad Hoc Working Group on Waste. Chair of the WEEE Public Interest Network (WEEE-PIN), treasurer of MWE (Municipal Waste Europe). Cooperated as an expert with the TAIEX-instrument of the European Commission on exchange of information and technical assistance during events in Poland, Hungary, Lithuania, Slovenia, Bulgaria, Romania, Latvia, Estonia, Croatia and other countries.

Dr. Alexander Gosten  
is a graduated mining engineer and joined the waste management industry 1990 with the RWE Umwelt AG. Since 1993 he holds several general management positions of recycling and waste management companies within the RWE Group. Since 2006 Dr. Gosten is in the BSR AöR in charge for the treatment of waste, the operation of 20 facilities, the planning and construction of new facilities and the custody of the former landfills.

Jan Grundmann  
Mr Jan Grundmann studied agriculture in Stuttgart Hohenheim and obtained a doctor’s degree in Göttingen about composting of source separate collected organic waste fraction. Postdoctoral this issue of biowaste composting played an important role. In the beginning of the 90s he was responsible for the optimisation and procedural dimensioning of composting plants as well as fermentation plants in the context of biowaste treatment. Since the end of the 90s Mr Grundmann has worked for Vattenfall Europe’s project development in Hamburg, mainly being active in the field of RDF (refuse derived fuels) incineration. Amongst others he directed the project development of the Industrial Power Plant Rüdersdorf east of Berlin. In the beginning of 2007 Mr Grundmann became Head of the Project Development of Vattenfall Europe New Energy. Since the end of last year Mr