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SMi present their 7th annual conference on...

Energy from Waste

The Marriott Regents Park Hotel, London, UK

13 - 14
OCTOBER
2014



KEY SPEAKERS INCLUDE:

- **Frances Hale**, Technical Manager – Non Domestic RHI, **Ofgem**
- **Chris Holmes**, Managing Director Waste and Bioenergy, **Green Investment Bank**
- **Peter North**, Senior Manager, **Greater London Authority**
- **Andrew Cousins**, Senior Business Development Manager, **Amey**
- **Carl Beer**, Chief Executive, **Merseyside Recycling and Waste Authority**
- **Paul de Jong**, CEO, **Twence Holding B.V**
- **Jean Claude Roboffi**, Senior Project Analyst, **Suez Environment**
- **Pal Mikkelsen**, MD, **EGE (Waste to Energy Agency)**, Oslo
- **Alban Forster**, Director, **SLR Consulting**
- **Ian Benson**, Project Director, W2R, **Staffordshire County Council**
- **Chindarat Taylor**, Director, **Resource Efficiency Pathway**

WHY ATTEND THIS EVENT:

- **Understand** and review the latest update on the regulatory environment governing the energy from waste sector
- **Evaluate** the different financing models that exist and **join a panel discussion** with key industry leaders to debate the financing issue in a post PFI world
- **Analyse** and understand the challenges in securing feedstock in the supply chain
- **Discover** the latest case studies in UK and Europe

PLUS AN INTERACTIVE HALF-DAY POST-CONFERENCE WORKSHOP

Wednesday 15th October 2014, The Marriott Regents Park Hotel, London, UK

Waste properties and characterisation: driving innovation in energy from waste

Workshop leaders: **Stuart Wagland**, **Raffaella Villa** & **Kumar Patchigolla**, Lecturers, **Cranfield University**

8.30am - 12.30pm

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8.30 Registration & Coffee

9.00 Chairman's Opening Remarks

John Twitchen, Executive Director, Copper Consulting

AN UPDATE ON THE ENERGY FROM WASTE MARKET

9.10 The non-domestic RHI scheme

- What is the purpose of the scheme and who is it for?
- An update on the latest figures
- Helping UK meet EU targets towards reducing carbon emissions

Frances Hale, Technical Manager – Non-Domestic RHI, Ofgem

9.40 Developments of the European RDF market

- Availability of RDF treatment capacity
- European trends in waste treatment
- Rising the waste hierarchy: UK opportunities

Paul de Jong, CEO, Twence Holding B.V

10.10 Morning Coffee

10.40 An overview of the EfW regulatory environment in Europe

- Regulatory policies and law challenges and opportunities in the energy from waste sector
- Key aspects arising in the EU and in particular CEE
- Key aspects arising in other markets

Kostadin Sirlishtov, Partner, CMS Cameron McKenna
Paul Sheridan, Partner, CMS Cameron McKenna

11.10 Opportunities in Waste to Energy – A global perspective

- Global trends and key drivers
- Potential markets
- Opportunities and challenges
- Managing risks

Chindarat Taylor, Director, Resource Efficiency Pathway

11.40 London's waste management system: towards zero waste in the city

- London as the leader in waste management
- Achieving zero waste by land-fill by 2031
- Unlocking waste's value
- Opportunities and challenges

Andrew Richmond, Policy and Programme Manager, Greater London Authority

12.10 Networking Lunch

FINANCING MODELS AND FEEDSTOCK IN THE SUPPLY CHAIN

1.10 Financing Energy from Waste

- The state of the financial markets and latest developments
- Applying project finance techniques to EfW
- Sources of funding
- Structures and processes
- Case studies at Green Investment Bank

Chris Holmes, Managing Director Waste and Bioenergy, Green Investment Bank

1.40 Where does feedstock stand in the supply chain?

- Feedstock suitability for the different types of thermal process technologies
- Degree of preparation required
- Analysing the supply chain: linking the demand for finance to feedstock supply
- Case Studies

Alban Forster, Director, SLR Consulting

2.10 Afternoon Tea

DISTRICT HEATING PROJECTS

2.40 Community heating: developing heat networks in London

- Regional efforts to grow London's District Heating networks
- District heating schemes supplied from combined heat and power (CHP)
- Case studies across London

Peter North, Senior Manager – Program Delivery (Sustainable Energy), Greater London Authority

3.10 Devonport EfW CHP facility

- Who are MVV?
- The project
- Benefits
- Where are we now?

Jane Ford, Community Liaison Manager, MVV

3.40 Panel Debate: the state of the financial markets and latest developments

John Twitchen, Executive Director, Copper Consultancy (panel chair)
Shelley De Souza, Senior Manager, SMBC
Chris Holmes, Managing Director Waste and Bioenergy, Green Investment Bank
Kostadin Sirlishtov, Partner, CMS Cameron McKenna

PANEL DEBATE

4.20 Chairman's Closing Remarks and Close of Day One

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8.30 Registration & Coffee**9.00 Chairman's Opening Remarks**

John Twitchen, Executive Director, **Copper Consulting**

CASE STUDIES FROM UK, CENTRAL EUROPE AND AFRICA

9.10 Delivering Energy from Waste – Legal Challenges

- Making your scheme fundable
- Issues with incentives and renewable benefits
- Heat and power offtake structures
- Contract issues

David Kilduff, Partner, Energy Group, **Walker Morris**

Ben Sheppard, Partner, Energy Group, **Walker Morris**

9.50 From "waste" to vehicle fuel

- Overview of the market in the UK and Europe
- Opportunities and challenges in converting waste to vehicle fuel
- An overview of the technologies available to convert waste to vehicle fuel
- Attitudes of the government, the public and industry

Christopher Mallin, Chairman, **Biomethane Ltd/Organic Power Holdings Ltd**

10.20 Keeping the sewers flowing and producing a fuel

- The largest fat-fuelled power station in the UK
- Towards Thames' Water sustainable commitment
- What are the challenges faced so far and what have been done to overcome them?
- How will customers benefit from this project?

Phil Thomas, Special Projects Manager – FOG, **Thames Water**

10.50 Morning Coffee**11.20 The Merseyside and Halton Project**

- Overview of the project
- Providing sustainable and efficient solutions for municipal waste
- Powering local businesses

Carl Beer, Chief Executive, **Merseyside Recycling and Waste Authority**

11.50 Project W2R – Procurement to Commissioning

- Moving a major PFI procurement through to a working plant
- History so far
- Procurement to Contract Management
- Construction
- Commissioning and Operations

Ian Benson, Commissioner for the Sustainable County, **Staffordshire County Council**

12.20 Case Study: The Norway example

- What is Oslo doing to convert waste to energy
- How is it achieving its objectives?
- Reducing carbon emission: Towards one of the greenest city in the world?

Pål Mikkelsen, Managing Director, **EGE (Waste to Energy Agency)**

12.50 Networking Lunch**1.50 Renewable energy from sewage sludge**

- An overview of the wastewater industry in the UK
- Current case study
- Reducing carbon emissions at Thames Water

Nick Mills, Waste Innovation Manager, **Thames Water**

2.20 Poland: the Poznan waste project

- An update on the project
- Risk allocation and bankability
- Availability payment structure
- Combining EU funds and private financing

Jean Claude Robotti, Senior Project Analyst, **Suez Environnement**

2.50 Afternoon Tea**3.20 Waste to Energy in Suffolk**

- The role of energy recovery in Suffolk's overall waste strategy
- Overview of the facility and technology used
- Engaging the local community

Steve Palfrey, Head of Waste Services, **Suffolk County Council**

3.50 The Milton Keynes Waste Recovery Park: Local Policy in Practice

- The Milton Keynes Waste Recovery Park: Local Policy in Practice
- An overview of the project, Milton Keynes's aspirations and AmeyCespa's solution
- Using gasification technology to recover energy from waste
- Overview of the current technology currently being used
- Generating renewable energy for the community

Andrew Cousins, Senior Business Development Manager, **Amey**

4.20 Energy from Waste: An integrated Dutch project on decentralized energy production and utilization

- Introduction on the Haarlemmermeer Waste to Energy project
- Unique because of the integration with a 24 hectares Greenhouse, a CO₂ hub and a fermentation unit to produce biogas
- Process description amongst other covering a newly designed waste sorting line
- Process integration as method to use local heat, electricity and CO₂ production to be used on-site, to generate a large revenue stream and local employment
- Innovative gas treatment system to remove and re-use CO₂

Theodoor Knook, CEO/Owner, **Knook Group**

4.50 Chairman's Closing Remarks and Close of Day Two

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Supported by



Waste properties and characterisation: driving innovation in energy from waste

Workshop Leaders:

Dr Stuart Wagland, Dr Raffaella Villa & Dr Kumar Patchigolla, Cranfield University

Overview of workshop:

The workshop will discuss how the composition and the properties of our wastes in the UK can vary, and how this can be monitored. Cranfield University have been involved in a number of projects looking at wastes in the UK, and using these in the in-house gasification, combustion and anaerobic digestion facilities. This workshop will be an interactive session where the lessons from recent years will be shared and the development needs discussed with the participants.

Why you should attend:

To find out about the work carried out by Cranfield University and to learn about the latest innovative work being undertaken. This workshop will provide participants with an opportunity to discuss the key areas where developments are required in the UK.

Programme

- 8.30** Registration and coffee
- 9.00** **Opening Remarks**
- 9.10** **Session 1** Waste variation: cause and effects
- 9.50** **Session 2** Characteristics of waste and renewable energy
- 10.30** **Coffee break**
- 11.00** **Session 3** Recent developments in anaerobic digestion
- 11.40** **Session 4** Gasification research at Cranfield: 5 years overview
- 12.20** **Closing remarks**

About the workshop hosts



Dr Stuart Wagland is a Lecturer in Renewable Energy from Waste in the Department of Environmental Science and Technology at Cranfield University. He has interests in the properties of solid waste materials, such as the composition, recovery of resources and the energy potential of UK waste streams. He is the Course Director of the MSc Renewable Energy Technology course, and is directly involved with the management of various taught modules and delivering lectures across a number of MSc courses, along with the supervision of research students across a range of industry-relevant topics. Stuart has interests in the properties of solid waste materials, which range from household waste to commercial and industrial wastes, and has significant expertise in the properties and characterisation of waste materials.



Dr Raffaella Villa is an applied microbiologist with particular expertise in microbial and enzymatic processes, which she has adapted to the waste and environmental sectors. Her research interests cover waste/by-products biotransformation, applied biocatalysis and bioenergy from waste, with a particular interest in anaerobic digestion (AD). She is the Principal Investigator (PI) on three long-term PhD projects on AD, she has been actively involved in three WRAP funded projects, supporting the AD Quality Protocol PAS 110 and she was appointed as the national AD technical support for WRAP in 2013. In this role she provided technical support for Towards the Circular Economy - Ellen MacArthur Foundation second publication. She currently leads a group of 4 PhD students and coordinates the virtual Centre for Anaerobic Science, which includes a pilot Anaerobic Digestion facility under construction on campus.



Dr Kumar Patchigolla is a Lecturer in Carbon Capture and Storage. His research interests are in advanced carbon capture and storage technologies and thermo-chemical energy conversion for power applications. Dr Patchigolla is responsible for a wide range of energy process facilities, including pilot scale plants for gasification and carbon capture, as well as high pressure flow loop CO₂ transport systems.

About the organisation

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automotive, defence and security, energy, health, environment, management and manufacturing sectors, we have changed the way society thinks works and learns. Our energy and environment research has resulted in a number of very high profile projects where we have undertaken extensive work into high efficiency energy from waste solutions, using either thermal technologies or bio-chemical processes.



JUNE

Oil and Gas Cyber Security

3rd - 4th June 2014, Oslo, Norway

Utility Energy Storage Europe

18th - 19th June 2014, London, UK

Gas Storage and Transmissions

18th - 19th June 2014, London, UK

Meter Asset Management and Operations

23rd - 24th June 2014, London, UK

JULY

Big Data & Analytics for E&P

9th - 10th July 2014, London, UK

Social Media in the Telecoms Sector

16th - 17th July 2014, London, UK

SEPTEMBER

Telecoms for Smart Grids

22nd - 23rd September 2014, London, UK

Distribution Automation Europe

29th - 30th September 2014, London, UK

OCTOBER

Energy from Waste

13th - 14th October 2014, London, UK

Shale Gas Environmental Summit

27th - 28th October 2014, London, UK

Gas to Liquids

29th - 30th October 2014, London, UK

NOVEMBER

Oil & Gas Cyber Security

24th - 25th November 2014, London, UK

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24th - 25th November 2014, London, UK

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ENERGY FROM WASTE

Conference: Monday 13th & Tuesday 14th October 2014, The Marriott Regents Park Hotel, London, UK Workshop: Wednesday 15th October 2014, London

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