

WASTE-TO-ENERGY

OCTOBER 15 AND 16, 2020 | WEB CONGRESS

INTERNATIONAL DEVELOPMENT

EU Policies and Implementation Strategies and Projects Country Reports

WASTE INCINERATION

Municipal Solid Waste Sewage Sludge Hazardous Waste

Technologies of Waste Incineration Energy Efficiency and Use Tools and Methods for Plants in Operation

> Boiler, Materials and Corrosion Flue Gas Treatment CO₂ Capture and Utilisation Incineration Residues

ALTERNATIVE WASTE-TO-ENERGY PROCESSES

Solid Recovered Fuels – Production and Co-Incineration in the Cement Industry

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Associate Professor Dr. Sc. Patrik Yrjas, Senior Researcher Laboratory of Inorganic Chemistry, Åbo Akademi Johan Gadolin Process Chemistry Centre, Finland

Plenary Session

~ 9:00 Welcome Address

Professor Dipl.-Ing. Dr. techn. Franz Winter, Vienna University of Technology, Austria Professor Ph.D. Ing. Dagmar Juchelková, Technical University of Ostrava, Czech Republic **Opening Remarks**

Elisabeth Thomé-Kozmiensky, M.Sc.

EU Policies and Implementation

PRESENTATION: PROFESSOR DR. FRANZ WINTER

The New EU Action Plan for a Circular Economy

Jose Jorge Diaz del Castillo, Policy Officer – Legislation Unit Waste Managment & Secondary Materials European Commission – DG Environment, Brussels, Belgium

Waste-to-Energy and the European Green Deal Dr. Ella Stengler, Managing Director CEWEP – Confederation of European Waste-to-Energy Plants e.V., Brussels, Belgium

Latest Development of the EU Taxonomy for Sustainable Activities Patrick Clerens, Secretary General

ESWET – European Suppliers of Waste to Energy Technology, Brussels, Belgium

Steps Towards Implementing Waste Incineration BAT Conclusions in the EU Member States – the Example of France Lionel Kosior

SVDU – Syndicat national du traitement et de valorisation des déchets urbains et assimilés, Paris, France

Suez RV France, Paris, France

Live Discussion Forum: EU Policies and Implementation

Break

Strategies and Projects

PRESENTATION: PROFESSOR PH. D. ING. DAGMAR JUCHELKOVÁ

Waste-to-Energy – a Sustainable Pillar of Resource Management and Greenhouse Gas Reduction?

Christophe Cord'homme, Business & Products Development Director CNIM Constructions Industrielles de la Méditerranée S.A., Environment Sector, Paris, France

New Developments of a Plant Operator in Waste Incineration and Sewage Sludge Mono-Combustion – also with a View to China Dipl.-Ing. Harm-Peter Büchner, Executive Director/Head of Engeneering Department EEW Energy from Waste GmbH, Helmstedt, Germany

Key Aspects for the Successful Realization of International PPP/PFI Waste-to-Energy Projects Attorney Dr. Tobias Faber

Hogan Lovells International LLP, Frankfurt am Main, Germany

Live Discussion Forum: Strategies and Projects

Break

Country Reports

PRESENTATION: DIPL.-ING. FELICITAS GRUBER

Waste Management System Switzerland – Example of a Pragmatic Solution Dr. sc. nat. Jürg Liechti

Chief Executive Officer of Neosys AG, Gerlafingen, Switzerland

Waste Management in the United Kingdom against the Background of Brexit Mike Brown

Managing Director of Eunomia Research & Consulting, Bristol, United Kingdom

Status on Waste Management Centres and Waste-to-Energy in Croatia Mihael Zmajlović, B. Econ.

Member of the Environmental Advisory Council of Croatia

Former Minister of the Environment

Dipl.-Ing. Dr. mont. Renato Sarc, Chair of Waste Processing Technology and Waste Management, University of Leoben, Austria

Discussions and Developments in Thermal Waste Treatment in the Czech Republic Ing. Vojtech Dolezal, Managing Director SEWACO s.r.o., Brno, Czech Republic

Waste Management in the Republic of Cyprus – Current Situation and Perspectives Ministry of Agriculture, Natural Resources and Environment, Strovolos Nicosia, Republic of Cyrus (enquired)

Live Panel Discussion: Country Reports

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~17:30 End
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October 16, 2020

Developments and Strategies

~ 9:00 When does Recycling Make Sense? Dipl.-Chem.-Ing. Luciano Pelloni Waste Management Advice, Au, Switzerland Political Mainstream and the Future of Waste to Energy Dr. Siegfried M. Scholz Managing Director of Standardkessel Baumgarte GmbH, Duisburg, Germany Possible Impact of COVID-19 on the Development of the Global Energy-from-Waste Markets Amedeo C. Vaccani, Managing Partner A. Vaccani & Partner AG, Zürich, Switzerland Live Discussion Forum – PRESENTATION: PROFESSOR DR. MARTIN KRANERT Break **Data and Legislation Based Waste Management Planning** Approaches for Turkish Cities – Professor Ph.D. Görkem Akinci Dokuz Eylül University, Buca-Izmir, Turkey Technology as the Engine of Successful Project Development Fabio Dinale, Vice President Business Development Hitachi Zosen Inova AG, Zurich, Switzerland Waste Characteristics and Qualities – a Guidance on How to Specify them Right and an Outlook of Handling RDF with Modern Grate Systems Dr.-Ing. Ralf Koralewska, Research & Development Martin GmbH für Umwelt- und Energietechnik, Munich, Germany Treatment of Wastes Containing Carbon Fibres in Waste Incineration Plants Results from Practical Investigations on an Industrial Scale – Professor Dr.-Ing. Peter Quicker RWTH Aachen University, Germany Live Discussion Forum – PRESENTATION: DR. RENATO SARC Break **Tools and Methods for Plants in Operation** Implementing Lean Management Best Practices in a Fleet of Energy-from-Waste Plants Marie-Anne Sparks, Industrial Transformation Manager SUEZ Groupe, France

Asset Performance Management: Digital Solution for Lifecycle Monitoring of Critical Equipment – the Example of the Roosendaal Waste Incineration Plant Uwe Rode, Senior Account Manager, Power Generation GE Digital, Netherlands Marc Das, Director ReEnergy SUEZ Recycling and Recovery Netherlands, Roosendaal, Netherlands

Proactive Maintenance Routines at Jersey's Energy from Waste Facility La Collette, St. Helier – Implementation of and Experience with a Computerised Maintenance Managment System (CMMS)

Jean-Yves Kbaier, Chef Executive Officer Crazylog SAS, Toulon/La Crau, France Ian Williams Plant Manager and Member of the Department for Infrastructure – States of Jersey Live Discussion Forum – PRESENTATION: DIPL.-ING. JOSEF STAUS

Artificial Intelligence Based Combustion Optimization Dipl.-Ing. Mariusz Maciejewski, System Technologies / Director Sales STEAG Energy Services GmbH, Essen, Germany

How Artificial Intelligence Simplifies Online-Monitoring in Waste-to-Energy Plants Dr.-Ing. Martin Horeni, Michael Wechner

solutions-ahead Schweiz GmbH, Zurich, Switzerland

Live Discussion Forum – PRESENTATION: PROFESSOR DR. PÁL SZENTANNAI

~17:30 End

October 16, 2020

Incineration

Boiler, Materials and Corrosion

~ 9:00 Composite Tubes for the Use in Waste Incineration Boilers Angela Philipp, Global Technical Marketing Sandvik Materials Technology Deutschland GmbH, Düsseldorf, Germany

On-Site High Velocity Thermal Spray Cladding – Effective Corrosion Prevention for WtE- and Biomass Plants Integrated Global Services, Inc., Richmond, United States (enquired)

Corrosion/Fouling Environment Evaluation in Waste-to-Energy and Biomass Fired Boilers Dr. rer. nat. Wolfgang Spiegel, Managing Director Dipl.-Ing. Marie Kaiser CheMin GmbH, Augsburg, Germany

Live Discussion Forum – PRESENTATION: DR. GABRIELE MAGEL

Break

Fluidized Bed Technology

Stay Flexible on Fuels – Circulating Fluidized Bed Technology as a Power Source for Industrial Processes

Dipl.-Wirtsch.-Ing. Gerhard Lohe, Damian Goral Doosan Lentjes GmbH, Ratingen, Germany

Experience with Waste-to-Energy Circulating Fluidized Bed Solutions

Vesna Barišić, D.Sc., R&D Manager, SAFEC processes Sumitomo SHI FW, Varkaus, Finland

Advanced Solutions for Waste-to-Energy Based on Fluidized Bed Technology

Sonja Enestam, D.Sc., Manager, Competences, Energy Technology R&D, Pulp & Energy Business Line Valmet Technologies Oy, Tampere, Finland

Live Discussion Forum – PRESENTATION: PROFESSOR DR. PATRIK YRJAS

Break

Example Plants and Experiences in the Plant Construction and Operation

The New Bubbling Fluidized Bed Waste-to-Energy Plant at the Bruck Papermill in Austria Dipl.-Ing. Martin Simmler, Energy Manager

Norske Skog Bruck GmbH, Bruck a.d. Mur, Austria

State of the Art Energy-from-Waste Plant in Brno, Czech Republic with High Energy Efficiency Producing Low-Carbon Electricity and District Heating Ole Poulsen, Project Director / Head of Department Energy from Waste Ramboll, Copenhagen, Denmark

Look Back at Planning, Construction and Commissioning of the WtE Plant Copenhagen and Overview of its Performance and Integration into the District Heating Network Peter Roulund, Member of the Top Management Team

ARC – I/S Amager Ressourcecenter, Copenhagen, Denmark

Singapore Integrated Waste Management Facility

Tom Casteels, Project Manager Benoit Englebert, Sales & Business Development Manager Keppel Seghers Belgium NV, Willebroek, Belgium

Live Discussion Forum – PRESENTATION: DIPL.-ING. JÖRG ECKARDT

Break

Incineration Residues

First Operating Experiences of the Largest Dry-Deslagging Plant for Waste-to-Energy in EU Dr.-Ing. Jens Sohnemann, Head of Technology Division

Steinmüller Babcock Environment GmbH, Gummersbach, Germany

Approaches on Waste Incineration Residues Classifications – Examples from Different European Countries –

Dipl.-Chem. Hermann Nordsieck Professor Dr.-Ing. Wolfgang Rommel, Managing Director, Dr. Karsten Wambach bifa Umweltinstitut GmbH, Augsburg, Germany

Fly Ash Treatment Technologies – an Overview of Commercial and Upcoming Technologies Michael Becidan, Ph.D., Senior Research Scientist

SINTEF Energy Research AS, Trondheim, Norway

Live Discussion Forum – PRESENTATION: PROFFESSOR DR. FRANZ-GEORG SIMON

~17:30 End

October 16, 2020

Flue Gas Treatment

~ 9:00 What to Do to Fulfil the Lower End Values of New Waste Incineration BREF? Solution Approach from the Perspective of a Plant Manufacturer Dipl.-Ing. Ruediger Margraf, Managing Director LUEHR FILTER GmbH, Stadthagen, Germany

Calcium versus Sodium Flue Gas Cleaning Reagent: What is the *Best* Solution? – On-Site Observations and Results on Latest Industrial Trials –

Stéphane Crevecoeur, Market Manager Flue Gas Cleaning Carmeuse Europe s.a., Louvain-la-Neuve, Belgium Razvan Tuliga, Technical Expert Flue Gas Cleaning Carmeuse Holding s.r.l., Brasov, Romania

Reconstruction of the Flue Gas Cleaning System of the Böblingen Energy-from-Waste Plant from Wet to Dry

Niels Hinrichsen Zweckverband RBB Restmüllheizkraftwerk Böblingen, Germany

Minimizing the Total Cost of Ownership of SCR ${\rm deNO}_{\rm x}$ Installations in the Context of New BREF Requirements

Xavier Henry, Director International Business Development & Chemistry Department ENGIE Laborelec, Linkebeek, Belgium

Industry 4.0 for Measuring Techniques: Higher Availability of Automated Measuring Systems by Predictive Maintenance Dipl.-Ing. Aurélie Moll, Technical Industrial Manager Sick AG, Waste & Recycling, Waldkirch, Germany

Live Discussion Forum – PRESENTATION: PROFESSOR DR. ROLAND POMBERGER

Break

Measurement Uncertainties with the Focus on Mercury

Eng. Hubert de Chefdebien, Director Public Affairs CNIM Constructions Industrielles de la Méditerranée S.A., Paris, France Chairman of the ESWET Technical Working Group

Mercury in Incineration: Challenges for Coming Years – Metrology, Speciation and Impact on the Flue Gas Treatment Strategy –

Fabien Burato Managing Director of Durag Sales & Service GmbH & Co. KG, Hamburg, Germany

Bromine-Enhanced Mercury Emissions Control – an Update

Professor Dr.-Ing. Bernhard W. Vosteen Vosteen Consulting GmbH, Cologne, Germany Ingénieur Xavier Chaucherie, M.Sc., Expert SARPI-Veolia, Direction du Développement Industriel, de l'Innovation et de la Recherche, Limay, France

Live Discussion Forum – PRESENTATION: DR. ROBERT VAN KESSEL

Break

CO₂ Capture and Utilization

Study Case of the Integration of a Post-Combustion $\mathrm{CO}_{\rm 2}$ Capture System in an Energy-from-Waste Plant

Assistant Professor Dr.-Ing. Federico Vigano LEAP – Laboratorio Energia e Ambiente Piacenza, Italy Politecnico di Milano, Department of Energy, Campus Bovisa, Milano, Italy

Full-Scale CO₂ Capture Plant at the WtE-Facility at Klemetsrud in Oslo Jannicke Gerner Bjerkås, Director CCS Fortum Oslo Varme AS, Norway

Construction and Operation of a Large-Scale CO₂ Capture Installation in the WtE Plant Duiven and Utilization in Greenhouse Horticulture Areas in the Netherlands AVR – Afvalverwerking BV, Duiven, Netherlands (enquired)

Potential Future Role of Thermal Waste Treatment Plants in the Sector Coupling Christian Schweitzer

Managing Director of bse Engineering Leipzig GmbH, Leipzig, Germany

Live Discussion Forum – PRESENTATION: DIPL.-ING. MARKUS GLEIS

~17:30 End

Solid Recovered Fuels – Production and Co-Incineration in the Cement Industry

~ 9:00 Smart Mechanical Waste Processing Concepts

Dipl.-Ing. Dr. mont. Renato Sarc, Dipl.-Ing. Alexander Curtis Chair of Waste Processing Technology and Waste Management University of Leoben, Austria

Production of Pollutant-Depleted SRF from Mixed Commercial Waste for Co-Processing in the Cement Industry

M.Sc. Sandra Viczek, Dipl.-Ing. Dr. mont. Renato Sarc Chair of Waste Processing Technology and Waste Management University of Leoben, Austria

Co-Incineration of Alternative Fuels in the Cement and Lime Industry – an International Overview –

Dirk Lechtenberg Managing Director of MVW Lechtenberg & Partner, Mülheim/Ruhr, Germany

Most Advanced Technology in Emissions Reduction: A Report from the Wietersdorf Cement Plant Dipl.-Ing. Florian Salzer, Plant Manager, Dipl.-Ing. Lutz Weber, Managing Director W&P Zement GmbH, Klein St. Paul, Austria

Live Discussion Forum – PRESENTATION: PROFESSOR DR. KARL E. LORBER

Break

Hazardous Wastes

Hazard Classification of Waste Materials according to EU Legislation

Dr. Tanya Klymko, Senior Expert Regulatory Affairs & Product Safety Center of Expertise for DSM Materials Product Registration and Applications I Regulatory Affairs & Product Safety, Geleen, Netherlands

Incineration of Hazardous Wastes

– State of the Art, Environmental Effects and Economy – $N.\ N.$

Operating Experiences in the Hazardous Waste Incineration Plant in Vilnius/Lithuania JSC Toksika, Vilnius, Lithuania (enquired)

Live Discussion Forum – PRESENTATION: PROFESSOR DR. HELMUT RECHBERGER

Break

Sewage Sludge

Thermal Treatment of Sewage Sludge – Technical Processes and Practical Examples – Dipl.-Ing., M.Sc. Jörn Franck, Senior Advisor Jörn Franck Consulting, Hamburg, Germany

Self-Propelled Sludge Incineration Plants

Erman Çakal General Manager of INEVA Çevre Teknolojileri A.Ş., Nilüfer/Bursa, Turkey

Integration of a Rotary Kiln System in an Existing Waste-to-Energy Plant – Experience from Construction and Commissioning in the Offenbach Plant – Dipl.-Ing. Alexander Simon, Process Engineering

Mitsubishi Hitachi Power Systems Europe GmbH, Duisburg, Germany

Live Discussion Forum – PRESENTATION: PROFESSOR DR.-ING. PETER QUICKER

Implementation of Full-Scale Phosphorus Recycling for the Sewage Sludge Ash of Vienna

Dipl.-Ing. Dr. Lukas Egle, Strategic Controlling & Assistance MA 48 Waste Management, Street Cleaning and Vehicle Fleet Vienna City Council, Austria

Flue Gas Treatment for Sewage Sludge Incineration Plants Dr.-Ing. Wolfgang Schüttenhelm Managing Director of WS Management & Engineering UG, Wiehl, Germany

Efficient Wet Solutions for Sewage Sludge Flue Gas Treatment

Frank Spöhrer, Head of Branch Office LAB GmbH, Stuttgart, Germany

Live Discussion Forum – PRESENTATION: PROFESSOR DR. HARALD RAUPENSTRAUCH

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