

Update August 29, 2022

International Exchange
Future of Waste Management
Industry, Operators and Research



WASTE - T O - E N E R G Y

SEPTEMBER 5 AND 6, 2022 | VIENNA, AUSTRIA

Cooperative Event with Vienna University of Technology

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PRESENTATION TOPICS

EU Policy – Current Developments • BAT Conclusions – Status of Implementation
Country Reports • Technologies, Concepts and Market • Sewage Sludge
Solid Recovered Fuels • CO₂ Capture, Storage and Utilisation • Bottom Ashes and Fly Ashes



CONGRESS VENUE

Vienna University of Technology, Campus Karlsplatz
Karlsplatz 13, 1040 Vienna, AUSTRIA



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www.IRRC.at

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Laboratory of Inorganic Chemistry, Åbo Akademi Johan Gadolin Process Chemistry Centre, Finland

09:00 Welcome Address and Opening Remarks

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

EU Policy – Current Developments

PRESENTATION: PROFESSOR DR. FRANZ WINTER

09:15 Overview of Current Developments in EU Policy

p. 3

Dr. Ella Stengler, Managing Director
CEWEP e.V. Confederation of European Waste-to-Energy Plants, Düsseldorf, Germany

09:45 Amendment of the EU Regulation on Persistent Organic Pollutants (POPs)

Enrique Garcia John, Policy Officer
Directorate-General for Environment, Unit B3 From Waste to Resources
European Commission, Brussels, Belgium

**10:15 The Path to the Green Deal for EU Waste Management:
Integrated Resource Recovery Facility**

p. 17

Patrick Clerens, Secretary General
European Suppliers of Waste to Energy Technology (ESWET), Brussels, Belgium

10:45 Coffee Break

BAT Conclusions – Status of Implementation

PRESENTATION: PROFESSOR PH.D. ING. DAGMAR JUCHELKOVÁ

11:15 BAT Conclusions – Overview of the Status of Implementation in Selected EU Countries

Dipl.-Ing. Markus Gleis, Scientific Senior Councilor
German Environment Agency, Dessau-Roßlau, Germany
Amalia Cerdá Lacaci, Corporate Sustainability Manager
TIRME Parc de Tecnologies Ambientals de Mallorca, Palma de Mallorca, Spain

Technologies and Market

11:45 White Book on Energy-from-Waste Technologies

p. 81

Christophe Cord'homme
Vice-chair of the ISWA Working Group *Energy Recovery*

**12:15 Global Supplier Structure for Delivery of Energy-from-Waste Plants
Including Alternative Thermal Processes such as Pyrolysis and Gasification –
Technology and Key Trends**

Amedeo C. Vaccani, Managing Partner
A. Vaccani & Partner AG, Zurich, Switzerland

12:45 Lunch Break

**14:15 EPCM – Engineering, Procurement and Construction Management:
Chances und Risks**

p. 115

Hosam Saboula, Head of Proposal Department Energy from Waste
Standardkessel Baumgarte GmbH, Bielefeld, Germany

Country Reports

PRESENTATION: PATRICK CLERENS, MARK DÖING

14:45 Waste Management and Energy from Waste in India – State and Perspectives –

p. 27

Denis Bauer
CEO of CNIM Martin Private Limited, Guindy, Chennai, India

15:05 Overview of the Waste Management System and its Perspective in Major Cities of Pakistan

p. 43

Assistant Professor Engr. Dr. Mudassar Azam
Institute of Chemical Engineering & Technology
University of the Punjab, Lahore, Pakistan

15:25 Coffee Break

**15:55 Current Status and Further Developments of the Circular Economy
and Waste-to-Energy in Germany**

Dr. Julia Vogel
German Environment Agency, Dessau-Roßlau, Germany

**16:15 Circular Economy and Waste Incineration in the United Kingdom
– State and Perspectives –**

p. 53

Chris Jonas
Director of Tolvik Consulting Ltd, Cam, Gloucestershire, United Kingdom

16:35 Panel Discussion

17:20 End

19.00 Dinner at Zwölf Apostelkeller
Sonnenfelsgasse 3 • 1010 Vienna

Concepts and Plants

PRESENTATION: DR. ROBERT VAN KESSEL

- 08:30 Advanced Concepts for Thermal Treatment of Waste and Sewage Sludge in Europe p. 99**
Dipl.-Wirtsch.-Ing. Gerhard Lohe, Director Product Line WtE
Dr. Thorsten Becker, Director Sales
Doosan Lentjes GmbH, Ratingen, Germany
- 08:55 Istanbul: The Largest Energy-from-Waste Plant in Europe**
Kenan Sirin
Hitachi Zosen Inova AG, Zurich, Switzerland

**20 MINUTES LECTURE
+ 5 MINUTES DISCUSSION**

Sewage Sludge – Markets and Technologies

- 09:20 The Market for Sewage Sludge Management in Europe until 2030 – Resource Use, Prices, Market Potentials and Strategies at the Example of Germany and Austria p. 145**
Dipl.-Kfm. Dirk Briese
Managing Director of trend:research GmbH, Bremen, Germany
- 09:45 Overview of Existing Processes and Technologies for Thermal Sewage Sludge Treatment p.131**
Dr.-Ing. Andrea Stooß
Project Manager/Project Engineer Waste and Sewage Sludge Incineration
AFRY Deutschland GmbH, Hamburg, Germany
- 10:10 Coffee Break**

Solid Recovered Fuels

PRESENTATION: DR. RENATO SARC

- 10:40 Trends on the Use of Solid Recovered Fuels p. 161**
Giovanni Ciceri, Manager Piacenza Headquarter
Deputy Head Health & Safety, Environment, Quality, Technical and General Services
Ricerca sul Sistema Energetico – RSE S.p.A., Milano, Italy
- 11:05 Co-Processing of Solid Recovered Fuel – A Circular Approach in Cement Industry p. 185**
Dipl.-Ing. Dr. mont. Renato Sarc, Dipl.-Ing. Dr. Sandra Viczek,
Professor Dipl.-Ing. Dr. mont. Roland Pomberger
University of Leoben, Chair of Waste Processing Technology and Waste Management, Austria

Bottom Ashes and Fly Ashes

- 11:30 Circular Economy Options for Bottom Ashes and Fly Ashes p. 201**
from Municipal Solid Waste Incineration
Ass. Professor Dipl.-Ing. Dr. techn. Johann Fellner
Vienna University of Technology, / VIRWa GmbH, Austria
- 11:55 Lunch Break**

CO₂ Capture, Storage and Utilisation

PRESENTATION: CHRISTOPHE CORD'HOMME

- 13:00 Overview of CO₂ Capture, Storage and Utilisation in the Waste-to-Energy Sector in Europe p. 215**
Dipl.-Ing. Aurélie Moll, Strategic Industry Manager, CCUS
Sick AG, Waldkirch, Germany
- 13:25 11 Reasons why Carbon Capture Should be Prioritized in the Waste to Energy Sector p. 229**
Dr. Tom Croymans, Innovation Manager
Keppel Seghers Belgium NV, Willebroek, Belgium
Chairman of the Carbon Capture Utilization & Storage Working Group
European Suppliers of Waste to Energy Technology (ESWET)
Benoit Englebert, Sales & Business Development Manager
Keppel Seghers Belgium NV, Willebroek, Belgium
- 13:50 Potentials in Waste Incineration Plants for Sector Coupling and CO₂ Capture p. 241**
Dr. Wolfram Dietz, Professor Dr.-Ing. Wolfgang Rommel, Managing Director
bifa Umweltinstitut GmbH, Augsburg, Germany
- 14:15 Coffee Break**

PRESENTATION: DIPL.-ING. MARKUS GLEIS

- 14:45 From Carbon Capture to Chemicals and Fuels p. 259**
Malte Bieber, M.Sc., Innovation and Project Development
EEW Energy from Waste GmbH, Helmstedt, Germany
- 15:10 Planned CO₂ Capture and Utilisation for the WtE Plant Krakow p. 271**
Against the Background of the Polish Market Development
in the Context of Circular Economy Targets
Dipl.-Ing. Jakub Bator, Member of the Management Board
Krakowski Holding Komunalny S.A. w. Krakowie, Krakow, Poland
- 15:35 Modular Methanol Plants – Options for Circular Economy**
Sten Wranik, Managing Director of bse Methanol GmbH, Leipzig, Germany
- 16:00 End**

Sponsoring, Exhibition and Advertising

Sponsoring Package

Sponsoring companies can engage in the IRRC with a contribution of 6,500.00 EUR plus VAT. The financial contribution entitles the sponsoring companies to the following services:

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or
- Option II: a **free ticket** for a member of the company
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- the company **logo** is displayed on the **invitations for the festive evening**,
- the company **logo and a link** to the company's homepage are displayed on the **congress homepage**,
- the company **logo** is displayed in the PowerPoint-Presentations, which are shown **during the breaks**,
- **information material** of the sponsoring companies can be enclosed to the **congress proceedings**,
- **sponsor entry in our Congress App**

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In addition, the package includes an **full-page advertisement** in the E-Book Waste Management (see below).

The fee for the package is 3,000.00 EUR.

Advertisement in the E-Book

The E-book contains about 20 English articles, which are basically identical with the presentations at the IRRC Waste-to-Energy, and will have a content of about 300 pages.

It will also be marketed after the congress. The E-book is addressed to decision makers, managers and experts in the new EU member states and those countries that want to become active in these regions.

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One advertisement costs 2,000.00 EUR

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A number of hotels in different categories have been pre-booked at preferential rates for the congress. The hotels are located near the congress venue. The participants of the IRRC can purchase a travel ticket for a special rate, which allows them to use the public transport in Vienna during their stay. For further information, please visit our website.



Congress Venue



Vienna University of Technology Campus Karlsplatz

Main Building
Karlsplatz 13
1040 Vienna, AUSTRIA
Phone: +43 1 58801 0
Internet: tu-wien.at



Registration

The registration entitles the attendee to all congress sessions on September 5 – 6, 2022, refreshments each day, congress app and online access to all attendee materials, access to the evening event on September 5, 2022 and the e-book covering the topics of the congress.

Rates for Participants		 www.vivis.de/ anmeldung/irrc/
Standard Rate	890,- EUR	
Reduced Rate	450,- EUR	
Student Rate	150,- EUR	

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Students are defined as those without a permanent employment (at an organization or a university), those with only marginal employment or a comparable low scholarship. Students have to present a valid certificate of enrollment

Visa Letter: A letter of invitation can be provided upon request for the registered congress participants. Please contact the Organizing Committee, if you require an invitation letter.

Participation Certificate: Upon request the Organizer (TK Verlag GmbH) of the event will issue a Certificate of Attendance outlining the number of hours attended for the Congress, which will be sent via email to delegates who attend the IRRC Waste-to-Energy 2022.

In case of prevention: If a registered participant is prevented from attending at short notice, he/she can transfer his/her registration tota substitute.

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