WASTE-TO-ENERGY

September 18 and 19, 2017
Vienna Marriott Hotel | Parkring 12a | 1010 Vienna, Austria

INTERNATIONAL DEVELOPMENT
EU Policies and Developments • Country Reports • Strategy

WASTE INCINERATION
Technology of Waste Incineration • Energy Efficiency and Use
Experience with Materials and Corrosion • Flue Gas Treatment
Example Plants and Experiences in the Plant Construction and Operation

ALTERNATIVE WASTE-TO-ENERGY PROCESSES
Mechanical-Biological Treatment • Utilization of Solid Recovered Fuels
Pyrolysis and Gasification
# Plenary Session

**Welcome Address**
Professor Dipl.-Ing. Dr. techn. Franz Winter, Vienna University of Technology, Austria

**Opening Remarks**
Elisabeth Thomé-Kozmiensky, M.Sc.

## EU Policies and Developments

**PRESENTATION: PROFESSOR DIPL.-ING. DR. TECHN. FRANZ WINTER**

**9:15 The Commission’s Communication on Waste-to-Energy under the Energy Union**
Jose Jorge Diaz del Castillo
Unit Waste Management & Secondary Materials
DG Environment, European Commission, Brussels, Belgium

**9:45 Brexit – Effects on European Waste Management**
Kirsten Berry
Director of hendeca ltd, Witney, United Kingdom

**10:15 What are the Preconditions and Drivers for the Development of Waste Management in a Country?**
Dr. Ella Stengler, Managing Director
CEWEP – Confederation of European Waste-to-Energy Plants e.V., Brussels, Belgium

## Country Reports

**PRESENTATION: DR. ELLA STENGLER, ATTORNEY DR. TOBIAS FABER**

**11:30 Waste Management Situation and Perspectives in the United Kingdom**
Marian Holliway, Deputy Director in Commercial Policy Division
Department for Environment, Food & Rural Affairs, London, United Kingdom (enquired)

**11:40 Possibilities of Development of Municipal Waste Recycling and Incineration in Poland**
Andrzej Kaźmierski, Director of Renewable Energy Department
Ministry of Energy, Warsaw, Poland (enquired)

**11:50 Progress on Implementing an Advanced Waste Management System in the Czech Republic**
Ing. Jaromír Manhart, Director of Department of Waste Management
Ministry of the Environment, Praha, Czech Republic

**12:00 Problematic Development of Implementation of WtE Projects in Slovakia**
Associate Professor Emilka Hroncová
Matej Bel University, Department of Environmental Management, Banská Bystrica, Slovakia

**12:10 Waste Management Situation and Perspectives in Bosnia and Herzegovina**
Dr. sc. Mehmed Cero, Assistant Minister on Environment
Federal Ministry on Environment and Tourism, Sarajevo, Bosnia and Herzegovina

**12:20 Waste Management Situation and Perspectives in Bosnia and Herzegovina**
Marian Holliway, Deputy Director in Commercial Policy Division
Department for Environment, Food & Rural Affairs, London, United Kingdom (enquired)

**12:30 Waste Management Situation in India**
Dr. Atul N Vaidya, Chief Scientist & Head
CSIR – National Environmental Engineering Research Institute (NEERI), Solid & Hazardous Waste Management, Nagpur, Maharashtra, India (enquired)

## Strategy

**PRESENTATION: PROFESSOR ING. DAGMAR JUCHELKOVÁ, PH.D.**

**15:00 Waste Management Projects in Emerging Markets: Risks and their Minimization**
Dr. Tobias Faber, Attorney I Partner
Hogan Lovells International LLP, Frankfurt am Main, Germany

**15:30 Think Global – Act Local: a Common Approach for International Projects and Local Markets**
Andres Kronenberg, Vice President Marketing and Sales
Hitachi Zosen Inova AG, Zurich, Switzerland

**16:00 How Oxford County (UK) Managed to Close its Landfill with a Successful Association of Material-from-Waste and Energy-from-Waste Solutions**
Christopher Cord’Homme, Business & Products Development Director
CNIM Constructions Industrielles de la Méditerranée S.A., Paris, France

## Coffee Break

**16:30 Presentation:**

**17:00 Impact of EU Legislative Developments on the Waste-to-Energy Sector**
Patrick Clerens, Secretary General
European Suppliers of Waste to Energy Technology (ESWET), Brussels, Belgium

**17:30 Waste Management 4.0 at the North/South/West/East Viewpoint**
Professor Ing. Dagmar Juchelková, Ph.D., Energy Engineering Department
Technical University of Ostrava (VSB-TUO), Czech Republic

**18:00 Coffee Break**

**18:30 Presentation:**

**19:00 Evening Event**
Incineration

Example Plants and Experiences in the Plant Construction and Operation

PRESENTATION: SECRETARY GENERAL PATRICK CLERENS, ESWET

8:30 Waste Incineration Plant Pfaffenau
   – Technology, operational data and energy use –
   Gerald Gritzner
   WKU Wiener Kommunal-Umweltschutzprojektgesellschaft mbH, Vienna, Austria

9:00 Revamping Projects in the Waste-to-Energy Boilers in Brussels, Paris and Rome
   Agostino Calcagno, Chief Executive Officer
   Ph.D. Eng. Joao Parente, Project Engineer, Eng. Luigi Bagnoli, Thermal Engineer
   Ruths S.p.A., Genova, Italy

9:30 Optimization of Plant Operation by Means of Technical Service
   Dipl.-Ing. Michael Mück, Process Technology
   Steinmüller Babcock Environment GmbH, Gummersbach, Germany

10:00 Minimisation of Fire Risks in Waste Processing Installations and Waste-to-Energy Plants
   – Early Fire Detection and Automatic Extinguishing –
   Dipl.-Wirt.-Ing. Albert Orglmeister
   Managing Director of Orglmeister Infrarot-Systeme GmbH & Co. KG, Walluf, Germany

10:30 Coffee Break

PRESENTATION: DIPL.-ING. KLAUS-GÜNTER ZINK

11:00 Suez Approach to Optimise Energy Efficiency
   Frédéric Aguesse, Vice President of Technical Center EFW SUEZ
   SUEZ Environment, Paris, France

11:30 Waste-to-Energy Powered Steam Network ECLUSE: An Example of Energy Clustering with the Chemical Industry
   Jan-Kees De Voogd, Regional Business Development Manager MSW
   Indaver nv, Mechelen, Belgium

12:00 Capturing of CO₂ in Waste Incineration Plants towards Power2Fuel
   Dipl.-Ing. Torsten Buddenberg, Product Manager – New Products
   Dr.-Ing. Christian Bergins, Product Management
   Mitsubishi Hitachi Power Systems Europe GmbH, Duisburg, Germany

12:30 Lunch Break

PRESENTATION: PROFESSOR DIPL.-ING. DR. TECHN. HELMUT RECHBERGER

14:00 Key Note Lecture: Thermo-Recycling
   Dipl.-Ing. Ulrich Martin, Managing Director
   Dr. Axel Hanenkamp, Head department manager technology
   Martin GmbH für Umwelt- und Energietechnik, Munich, Germany

14:30 Online Determination of Elementary and Fractional Waste Composition for Municipal Solid Waste Incineration Plants
   Dipl.-Ing. Tobias Widder, Professor Dr.-Ing. Michael Beckmann
   Technical University Dresden, Germany
   Dipl.-Ing. Philip Reynolds
   Managing Director of ERC Technik GmbH, Buchholz i.d.N., Germany

15:00 Impact of the Increased Fraction of Industrial Waste on the Emissions from Waste-to-Energy Plants
   Assistant Professor Dr.-Ing. Federico Vigano
   Politecnico di Milano, Department of Energy, Milan, Italy
   LEAP – Laboratorio Energia e Ambiente Piacenza, Italy
   Alessandro Cerrano, M.Sc.
   Politecnico di Milano, Department of Energy, Milan, Italy

15:30 Final Coffee Break
September 19, 2017

Alternative Waste-to-Energy Processes

Mechanical(-Biological) Waste Treatment and Energy Recovery from Solid Recovered Fuels

PRESENTATION: DIPL.-ING. DR. MONT. RENATO SARC

8:30 Planning, Construction and Operation of Mechanical-Biological Waste Treatment Plants – Experience Gained in International Projects –
Dipl.-Ing. Burkart Schulte
Vice-Chairman of the Board of Center for Research, Education and Demonstration in Waste Management (CReED) e.V.

9:00 High Calorific Fraction for Energy Recovery in Poland – an Overview of the Current Situation –
Assistant Professor Dr.-Ing. Emilia den Boer
Section of Waste Technology and Land reclamation
Wroclaw University of Science and Technology, Poland

9:30 Processing of Household Waste and Energy Recovery from the High Calorific Fraction by Incineration Together with Sewage Sludge in the Fluidized Bed Furnace in Simmeringer Haide
Dipl.-Ing. Dr. Friedrich Kirnbauer, Operating Technology
Wien Energie GmbH, Austria

10:00 Single Stage Processing of Waste for Cost Efficient RDF Production
Ing. Mag. Michael Lackner
Managing Director of Lindner-Recyclingtech GmbH, Spittal/Drau, Austria

10:30 Coffee Break

PRESENTATION: PROFESSOR DIPL.-ING. DR. TECHN. KARL E. LORBER

11:00 Camera Based Optimization of Multi-Fuel Burners for the Use of Substitute Fuels in the Cement Industry
Dr. André Dittrich, Head of Industry
ci-tec GmbH, Karlsruhe, Germany
Dr. Hubert B. Keller
Karlsruher Institut für Technologie (KIT), Eggenstein-Leopoldshafen, Germany

11:30 Hot Disc Technology for Co-Incineration of Coarse Substitute Fuels – Operational Experience at the Rohožník Cement Plant –
Dipl.-Ing. Juraj Cíž
Managing Director of ecorec Slovensko s.r.o., Pezinok, Slovakia

Pyrolysis and Gasification

Dipl.-Wi.-Ing. Alexander Laugwitz, Dipl.-Ing. Friedemann Mehlhose
Professor Dr.-Ing. Bernd Meyer, Institute Director
Dr. Roh Pin Lee, Technology Assessment Research Group Leader
Institute of Process Engineering and Chemical Engineering
TU Bergakademie Freiberg, Germany

12:30 Lunch Break

PRESENTATION: DIPL.-ING. MARKUS GLEIS

14:00 The Role of Pyrolysis in Distributed Town-scale Energy Systems and Research Results from a Pre-commercial Facility Processing Waste-derived Feedstocks
Dr. Neila Jurado Pontes, Professor E. J. Anthony, Dr. Stuart Wagland
Cranfield University, School of Water, Energy and Environment, United Kingdom
Mark Harradine, Technical Director, Shaun Gomm, Finance Director
Syngas Products Group Ltd., Dorset, United Kingdom

14:30 Status of Planning and Construction of Gasification Plants in the United Kingdom
Timothy Kast, M.Sc. Ch.E., P.E., Senior Process Engineer
Jim Starkey, BSME, Business Development Manager
Matthew Pierson, BSME, Business Development Manager
Mike L. Murphy, M.Sc. Ch.E., Vice President
Outotec (USA) Inc., Energy Products, Coeur d’Alene, USA

15:00 Operating Experience from Japanese Waste Gasification Plants with Direct Melting System
Nobuhiro Tanigaki, M.Sc., Chief Technical Manager
Nippon Steel & Sumikin Engineering Co., LTD.

15:30 Final Coffee Break
Flue Gas Treatment

PRESENTATION: DR. IR. ROBERT VAN KESSEL

8:30 Key Note Lecture: Air Pollutant Emissions and their Control with the Focus on Waste Incineration Facilities
Dr.-Ing. Margit Löschau
Managing Director of wandschneider + gutjahr ingenieurgesellschaft mbh, Hamburg, Germany

9:00 Low-Temperature SCR with Intelligent and Cost-Effective Regeneration without Excess Emissions
Mario Marcazzan
Technical Director of Vinci Environnement, Rueil-Malmaison Cedex, France

9:15 SNCR Technology to Meet Challenging NOx-Reduction Requirements
Dr.-Ing. Wolfgang Schüttenhelm, Senior Vice President Business Development & Technology
ERC Emissions-Reduzierung-Concepte GmbH, Buchholz i.d.N., Germany

9:30 Flue Gas Cleaning in Waste-to-Energy – Best Available Technology –
Dipl.-Ing. Christian Fuchs, Deputy Managing Director and Sales Manager
LAB GmbH, Stuttgart, Germany

9:45 Dry, Semidry or Wet – Which System Fits Best Depending on the Overall Conditions?
Dipl.-Ing. Ruediger Margraf
Managing Partner of LUEHR FILTER GmbH & Co. KG, Stadthagen, Germany

10:00 Discussion

10:30 Coffee Break

PRESENTATION: DR.-ING. MARGIT LÖSCHAU

11:00 Experience with Ground Sodium Bicarbonate
Dipl.-Ing. Jean-Pascal Balland, Dipl.-Ing. Kai Sartorius
Solvay Chemicals GmbH, Rheinberg, Germany

11:15 Mercury Removal by Chemisorption
Dr.-Ing. Wolfgang Esser-Schmittmann
President of Carbon Service & Consulting GmbH & Co. KG, Vettweiß, Germany

11:30 Mercury Accident at the Stuttgart Waste Incineration Plant in September 2015 – Cause, Countermeasures and Prevention of Future Incidents –
Dr. Christian Gabriel, Head of Maintenance
EnBW, RMHKW Stuttgart, Germany

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

12:15 Discussion

12:30 Lunch Break

Experience with Materials and Corrosion

PRESENTATION: DR. RER. NAT. GABRIELE MAGEL

14:00 Get to Know the Corrosion Mechanisms in Waste-to-Energy Plants
Dr. rer. nat. Gabriele Magel, Project Management
CheMin GmbH, Augsburg, Germany

14:15 Corrosion Behaviour of Radiant Superheaters in a Waste-to-Energy Steam Generator – Operation Experience in St. Omer –
Fares Maad, Ingénieur Direction technique, Maintenance Incinération
Veolia, France
Désiré Bendahan, Head of Tendering Department
CNIM S.A., La Seyne-sur-Mer Cedex, France

14:30 Ceramic Coating in a High-Pressure Waste-to-Energy Steam Generator – Operational Experience in Bilbao –
Ildefonso Goikoetxea, Director de Explotacion y Desarollo
Zabalgarbi S.A., Bilbao, Spain
Eddie Marcarian, Head of Department Chaudières et Combustion
CNIM S.A., La Seyne-sur-Mer Cecex, France

14:45 Fifteen Years of Operating Experience with Thick Nickel Plating
Dipl.-Ing. Jörg Eckardt
Ralf Senff-Wollenberg, Dipl.-Ing. Johann-Wilhelm Ansey
Standardkessel Baumgarte GmbH, Bielefeld, Germany

15:00 Latest Development on High Velocity Thermal Spray (HVTS) and its Critical Success Factors to Provide Life Time Extension to Pressure Parts in Energy-from-Waste
Dr. Daniel Špalenka, Director European Business Development
IGS Europe, s.r.o., Holasice, Czech Republik

15:15 Discussion

15:30 Final Coffee Break
Editors: Karl J. Thomé-Kozmiensky, Luciano Pelloni
Waste Management, Vol. 1 – 2:
Waste Management, Vol. 3 – 6:
Karl J. Thomé-Kozmiensky, Stephanie Thiel

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www.IRRC-Waste-to-Energy.com
This comprehensive text and practical handbook thoroughly presents the control of air pollutant emissions from combustion processes focusing on waste incinerators. Special characteristics are emphasised and the differences to emission control from combustion processes with other fuels are explained.

The author illustrates the origin and effects of air pollutants from incineration processes, the mechanics of their appearance in the incineration process, primary and secondary measures for their reduction, processes of measuring the emissions as well as the methods of disposing the residues. In particular, the pros and cons of procedural steps and their appropriate combination under various conditions are emphasised.

Moreover, the book contains information and analyses of the emissions situation, the consumption of operating materials and of backlog quantities as well as of the cost structure of waste incinerators with regard to their applied control system. Furthermore, the author explicates the contemporary legal, scientific and technological developments and their influence on air pollutant emission control. An evaluation of the status quo of air pollutant control at waste incinerators in Germany, practical examples about possible combinations and typical performance data complete the content.

Accordingly, this book is a guideline for planning a reasonable overall concept of an air pollutant control that takes the location and the segregation tasks into consideration. This book is addressed to students, decision makers, planners and the operating practitioners if for example the construction of a new system or the implementation of improvement measures have to be conducted.

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The aim of this study is to demonstrate such discrepancies or dependencies between attainable emission reductions and the emissions-generating energy input necessarily incurred by flue gas treatment technologies in attaining those reductions.

The study initially focuses on current investigations and assessments related to this issue, as well as on the legal emission requirements. Due to the wide range of components involved in flue gas treatment systems and their consequent numerous combination possibilities, six different system Variants are presented and compared. It is notable in the context of the present study that both single and two-stage or multi-stage systems are considered in the set of Variants, which differ not only in their structure and additive use but also in their separation capacity. These six basic Variants reflect the systems frequently employed in practice and represent non-congruent procedural steps with their respective target emission levels. Based on the fact that each of these Variants is already in operation in thermal waste incineration plants, the assessment draws on many years of existing operative experience.

The individual energy demands for the Variants described are determined on the basis of mass, material and energy balances. Evaluation criteria for energy demand at the different emission reduction ratios are elucidated from the formulation of emissions-related energy indicators. This establishes a set of tools with which to assess emissions-generating energy demand in the context of emission reduction ratios.
Conditions of Participation and Services

How to register
With the registration you acknowledge the terms and conditions of TK Verlag Karl Thomé-Kozmiensky as binding. The registration of participants must be in writing either by e-mail, by post, by fax or online using the registration form, as far as possible September 13, 2017. Please use a separate form for each person. It is not possible to register only for parts of the event, unless stated otherwise in the programme. On receipt of your application we will send you an invoice for your participation fee by post, which also serves as a confirmation of your registration.

The organizers will provide a reduced congress registration fee for participants from economically weak countries, including the new EU-member states (countries that joined the EU in the year 2004 or later). With the term „economically weak countries“ the organizers mean those countries, defined as „low and middle income economies“ by the World Bank.

The IRRC 2017 entry fees are defined on the basis of one person and cover two days of participation at the congress. Delegates of the IRRC can register additionally for the guided tour to waste disposal plants in Vienna on Wednesday (September 20). There is a limitation of participants. Registrations are considered in the order they are received and are subject to the availability of adequate space. The registration is binding.

If you are unable to attend the congress, your registration can be delegated to a substitute person. Cancellation requests must be received in writing on or before the cancellation deadline of August 20, 2017. Written notifications are accepted via email, post or fax. Cancellations received on or before August 20, 2017 will receive a refund of the paid fees minus an administration fee of 50,- EUR + 20 % VAT. Cancellations received after the deadline will not be issued a refund. Any unpaid congress fees are due and payable to TK Verlag Karl Thomé-Kozmiensky. Congress documents will be sent to registered attendees, who were unable to participate.

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The programme is subject to alterations.

Congress fees
890,– EUR + VAT. Regular fee for participants from the EU-15 and EFTA countries, and overseas
450,– EUR + VAT. Reduced fee for participants from other EU-member states or from low and middle income economies
390,– EUR + VAT Reduced fee for full-time professionals of public authorities or universities
100,– EUR + VAT. Reduced fee for full-time students

Students
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.

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.

The fee comprises:
• Attendance at all presentations
• Coffee breaks and luncheons for both days
• Participation at the networking dinner on September 18, 2017
• Congress documents: 1 Book, Proof-of-entry (also serves as name tag), List of speakers and participants, Final program

Complementary programme
20,– EUR + VAT. Guided tour on September 20, 2017

The fee comprises:
• Pick up and return from Vienna Marriot Hotel (approx. 9 am - 3 pm)
• Transportation between the waste disposal sites
• Guided tour at each site in English
• Group size of max. 15 people

Please note: There is a limited number of places!

Payment details
The congress fee is due before the start of the IRRC. However, please do not pay the congress or guided tour fee until you have received your invoice. Write the invoice number and the name of the delegate legibly on the money transfer form.

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I submit my binding application to attend the IRRC Waste-to-Energy on September 18 and 19, 2017 in Vienna.

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☐ 390,– EUR + 20% VAT Reduced fee for full-time professionals of public authorities or universities
☐ 100,– EUR + 20 % VAT. Reduced fee for full-time students
☐ 20,– EUR + 20 % VAT. I will attend the guided tour to waste disposal plants in Vienna on September 20, 2017 (only for registered participants of the IRRC 2017). Registration deadline: September 2, 2017
☐ 0,– EUR I will attend the evening event on September 18, 2017.
☐ I am interested in further material about sponsorship/ advertising opportunities.

0 2 3 4

Besides an interesting programme about the current issues of the European industry, the IRRC offers also a great opportunity to meet experts of the industry, from politics, science and technology. The exchange of experiences, ideas, and concepts will give impulses for cooperation and is going to promote development particularly in the new EU-member states.

Throughout the congress there will be sufficient time for networking in a pleasant atmosphere: During the coffee and lunch breaks, at the dinner on September 18 or even parallel to the lectures.

If you want to make use of the limited group rate, please visit our website www.vivis.de, go to Veranstaltungen -> IRRC, then to congress venue and follow the link to book the group rate. You will be directed to a page of the Vienna Marriott Hotel, which was created only for the participants of the IRRC.

**Congress Venue**

Vienna Marriott Hotel

Parkring 12a • A-1010 Vienna
Tel. +43.1-515.18-52 • Fax +43.1-515.18-87.20
Internet: www.viennamarriott.com
Single Room for 219,- EUR per night
Double Room for 239,-EUR per night
Limited offer reserved until August 25, 2017

**IMPORTANT**
Organize your overnight stay as early as possible.
Vienna is a very popular city and there are a number of other events taking place in that time.

**Networking**

**Partners**
For September 20, 2017 we offer a tour to selected waste disposal plants in and around Vienna, starting of the Vienna Marriott Hotel.

Delegates of the IRRC Waste-to-Energy have the possibility to participate in that excursion. Registered participants will receive a guided tour at each site.

The group size is limited to max. 25 people.

**Guided tour to waste disposal plants in Vienna**

**Schedule**

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<th>Time</th>
<th>Activity</th>
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<tr>
<td>8:30 –  9:00</td>
<td>Meeting Point in front of the Vienna Marriott Hotel</td>
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<tr>
<td>9.30 –  11.00</td>
<td>Waste Incineration Plant Spittelau</td>
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<tr>
<td>11.30 – 13.30</td>
<td>Biogas Plant and Waste Logistics Center</td>
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<tr>
<td>around 14.00</td>
<td>Return to the Vienna Marriott Hotel</td>
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**SPITTELAU WASTE INCINERATION PLANT**

*DESIGNED BY HUNDERTWASSER*

The waste incineration plant Spittelau was constructed from 1969 till 1971. A few years later, in 1987, a large fire destroyed most of the facility. Instead of tearing down the plant, Helmut Zilk – the mayor at the time – decided to rebuild it in accordance with the highest standards regarding the technology and the environment protection. But even that was not enough. In addition to the technological improvements, it became an artwork. The environmentalist, nature lover and artist Friedensreich Hundertwasser created the unique design, for which it is world-famous today.

From 2012 to 2015, after an operation time of more than 40 years, the waste incineration plant Spittelau had to undergo a complete refurbishment.

Today, it incinerates around 250,000 tonnes of household waste per year. With an installed overall performance of 400 MW, an average production rate of 120 GWh of electricity as well as 500 GWh of heat, this plant is the second biggest generation site in the district heating system of Wien Energie. An it provides annually more than 60,000 households with its eco-friendly heat.

**WASTE LOGISTICS CENTRE**

Simmering waste logistics centre (German acronym “ALZ”): the most recent element of the comprehensive waste disposal system of Vienna is provided by the new Pfaffenau waste logistics centre in the 11th municipal district Simmering. This high-tech installation adjacent to the Pfaffenau waste incineration plant serves for the processing and interim storage of residual and bulky waste. If necessary, the pre-treated, compacted waste is wrapped in airtight bales and stored until incineration without releasing unpleasant odours. This ensures reliable disposal even in case of repairs or downtimes at waste incineration plants. The facility ensures that all waste collected can be properly disposed of, irrespective of the waste volume or capacity utilisation of Vienna’s waste incineration plants.

**BIOGAS PLANT**

The biogas plant went into operation in 2007 and is run by the Vienna Municipal Department for Waste Management, Street Cleaning and Vehicle Fleet (MA 48). The facility processes about 22,000 tons of kitchen waste every year – mainly the contents of organic waste containers in Vienna’s inner-city districts, as well as leftover food from restaurants, canteens and industrial kitchens, market waste and expired food. The moisture content of these materials is high enough to allow for fermentation.

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