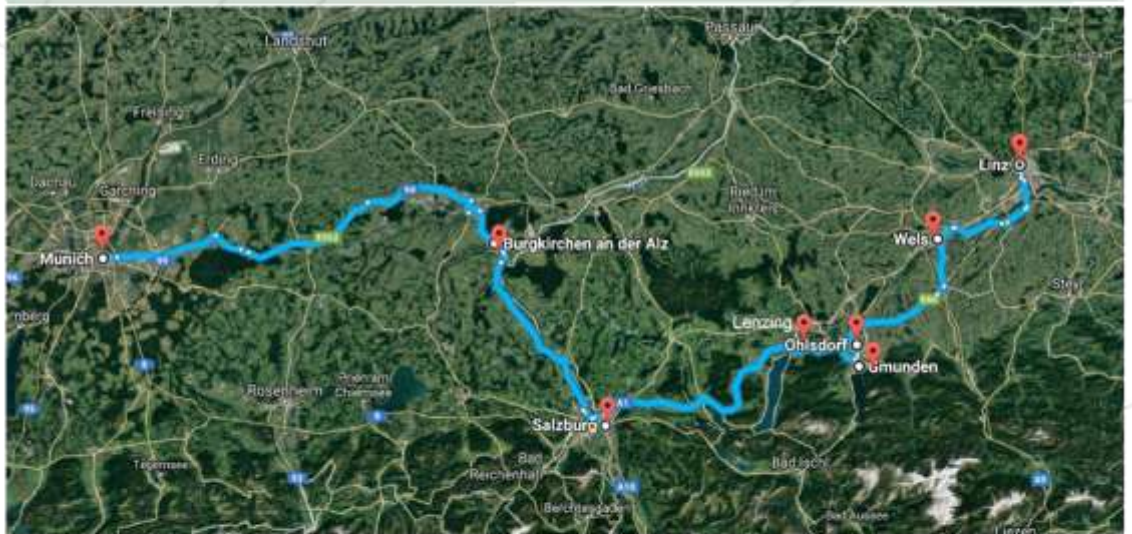


# Programme, June 18 - 23, 2017

## *ISWA Study Tour WASTE-TO-ENERGY*



*Germany  
Austria*



### Seminar and Technical Tour to 10 Plants and Facilities in Operation

Munich → Burgkirchen → Salzburg → Ohlsdorf → Gmunden → Lenzing → Wels → Linz → Munich

Practice Seminar on Sustainable Waste Management in Europe based on Prevention, Recycling, Recovery, Treatment, and Intermediate Storage - without any disposal of untreated wastes exceeding 5 % TOC (Total Organic Carbon) in landfills

# INTRODUCTION

This year (after 7 successful Waste-to-Energy Study Tours with more than 130 participants from all 5 continents) we are pleased to offer the 8th technical tour to 10 different plants and facilities in Germany and Austria with special seminars.



Franz Neubacher  
*M.Sc. Technology & Policy (M.I.T., USA)*  
*M.Sc. Chemical Engineering (TU Graz, Austria)*  
[UVP Environmental Management and Engineering](#)

## Method for the Practice Seminar

There are 3 pillars of individual benefits and professional education offered within this unique practice seminar:

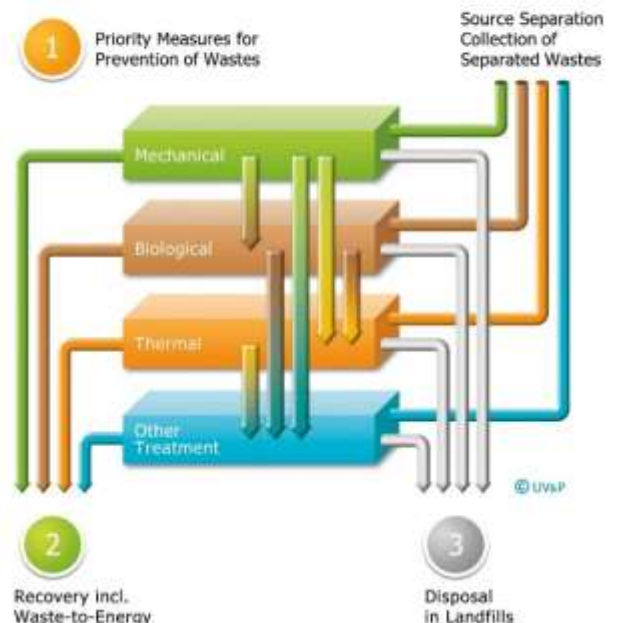
- Quality seminar taught by senior experts in waste management, environmental policy and engineering
- Visits to waste treatment facilities representing Best Available Techniques including discussion with operators and reputable engineering and policy experts
- Discussions with environmental experts on control and public acceptance of waste treatment plants (typical "LULU" projects - locally unwanted land use and "NIMBY" – not in my backyard)

For technical information see ["White Book Waste-to-Energy in Austria"](#)

## Green Technology: Recycling and Recovery for Sustainable Waste Management



## Future-oriented Integrated Systems for Sustainable Waste Management



# SUNDAY, June 18, 2017

7.00 pm – 9.00 pm

Welcome by the Seminar Team at [the hotel H4 \(formerly Ramada\) in Munich](#)

# MONDAY, June 19, 2017

08.15 am – 10.00 am

Welcome Address by ISWA  
Introduction of Participants  
Introduction by ISWA

10.00 am – 10.30 am

*Refreshments*

10.30 am - 12.00 pm

**Seminar on “Development of Waste Management and Integrated Pollution Prevention and Control”** Policy and legal framework in Austria and EU, legal ban on hazardous and untreated wastes exceeding 5 % TOC from disposal in landfills, landfill tax; development of the most stringent emission standards for Waste-to-Energy worldwide, status quo of waste management in different regions and countries of the EU, trans-boundary shipment of wastes

12.00 pm – 1.30 pm

*Lunch*

1.30 pm – 3.00 pm

**Seminar on “ Technical Systems for Waste Treatment and Energy Recovery”**  
Drying, pyrolysis, gasification and combustion, grate, fluidized bed systems, rotary kilns with afterburning chamber, experience and limitations for specific wastes in various systems; odor control and control of atmospheric emissions, auxiliary chemicals, treatment of liquid and solid residues

3.00 pm – 3.30 pm

*Refreshments*

3.30 pm – 5.00 pm

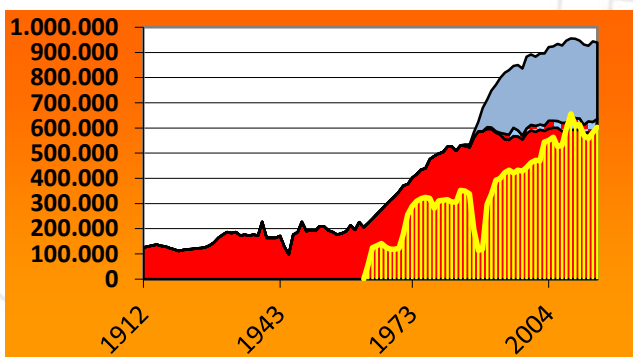
**Seminar on “The 20-20-20 goals of the EU for 2020 and further goals for 2030 and 2050”**  
Reduction of GHG emissions, improvement in energy efficiency, circular economy, zero waste.

5.00 pm – 5.30 pm

*Transfer*

5.30 pm – 8.00 pm

Dinner at a traditional Bavarian beer garden (non-alcoholic and vegetarian options available)



# TUESDAY, June 20, 2017

8.00 am – 9.30 am

*Bus transfer to Salzburg*

9.30 am – 11.00 pm

Seminar on Project Design and Economic Analyses for Waste-to-Energy Projects

11.00 am – 11.30 am

*Refreshments*

11.30 am – 1.00 pm

Overview of the Waste Treatment Center SAB in Siggerwiesen, Salzburg  
Public education, separate collection of various municipal waste materials, mechanical processing and biological treatment of different wastes, and utilization of biogas from anaerobic waste treatment and (old) landfill.



1.00 pm – 2.30 pm

*Lunch at the Romantikhôtel Gmachi in Elixhausen, Salzburg*

2.30 pm – 4.00 pm

Site Tour of the Waste Treatment Center SAB in Siggerwiesen, Salzburg

4.00 pm – 6.00 pm

Social Visit in Salzburg – the town of Wolfgang Amadeus Mozart

6.00 pm – 8.00 pm

[Bus transfer to seminar hotel Aichinger in Nussdorf at Lake Attersee](#)

*Including dinner at the Restaurant Landzeit with a scenic view of Lake Mondsee and the Alps*



# WEDNESDAY, June 21, 2017

8.00 am – 09.30 am

## Seminar on "Prevention, Detection and Control of Fire Hazards in Treatment Facilities and during Storage of Waste, Self-ignition and Fires on Landfill Sites"

by Dipl.-Ing. Dr. Hannes Kern (Mining University Leoben)

09.30 am – 10.00 am

*Bus transfer to Ohlsdorf*

10.00 am – 11.30 am

Site Tour of ERG with Removal and Sorting for Recovery of a large Historic Tire and Rubber Disposal Site (due to high risk for fire hazards with more than 100,000 m<sup>3</sup> combustible waste volume)  
Site Tour of KIAS with Processing of Scrap Tires for Recovery of Rubber, Steel and Textile Cord (capacity for processing up to 30,000 tons of scrap tires per year)

11.30 am – 1.00 pm

*Bus Transfer to Gmunden & Lunch at the Steiner's Restaurant*

1.00 pm – 2.30 pm

Overview and Site Tour of the Cement Plant of Rohrdorfer  
Overview of cement production including utilization of specific waste-derived fuels and raw materials, quality and emission controls, restrictions and limits due to product and emission standards, economic aspects

2.30 pm – 3.00 pm

*Bus transfer to Lenzing*

3.00 pm – 4.30 pm

Seminar: Examples for Integrated Industrial Utilization of Wastes and Air Pollution Treatment, including Recovery of High-pressure Steam for Industrial Purposes  
Systems analyses, selection of appropriate new sites for new waste-to-energy facilities, project design and emission standards, public information and public hearings, economic analyses

4.30 pm – 6.00 pm

Site Tour of the RVL waste-to-energy facility integrated within the industrial site Lenzing

6.00 pm – 6.30 pm

*Bus transfer to hotel*

7.00 pm – 8.30 pm

*Dinner at Hotel Aichinger*

**ENERGIE AG**  
Oberösterreich



# THURSDAY, June 22, 2017

8.00 am – 9.30 am

## Seminar on „Examples for Project Development of Waste-to-Energy in Various Regions“

Relevance of legal framework, monitoring and enforcement, taxes and economic incentives, time and activity schedules, intermediate storage of wastes, options for waste-to-energy in developing countries with low and middle income economies, influence of culture in waste management and environmental protection, failures and typical mistakes

9.30 am – 10.30 am

*Bus transfer to Wels*

10.30 am - 12.00 pm

Overview of WAV Waste-to-Energy and Waste Processing Site including processing of bulky wastes, logistics, intermediate storage of baled waste, historic development of energy utilization



12.00 pm – 1.00 pm

*Lunch*

1.00 pm – 2.30 pm

Site Tour of WAV Waste-to-Energy and other Waste Processing Facilities

Site Tour of the Wood Pellet Production STURMBERGER

Utilization of heat from waste-to-energy facility for drying and production of high quality pellets

2.30 pm – 3.00 pm

*Bus transfer to Linz*

3.00 pm – 5.15 pm

Overview and Site Visit of Waste-to-Energy Plant Linz

Sorting and pre-treatment of solid wastes, treatment of sewage residues



5.15 pm – 5.30 pm

*Bus transfer to WKO Oberösterreich, Linz*

5.30 pm – 8.00 pm

B-2-B Get together and buffet at the invitation of WKO

8.00 pm – 9.30 pm



*Bus transfer to Hotel Aichinger*



# FRIDAY, June 23, 2017

8.30 am – 10.00 am

Closing Seminar and Discussion on Challenges for Integrated Waste Management  
Based on specific requests by seminar participants, including options to discuss the examples of integrated waste management in Vienna and specific project proposals for sustainable profitable waste-to-energy project development in Pakistan and Sub-Saharan Africa.

10.00 am – 10.30 am

*Refreshments*

10:30 am – 1:30 pm

*Bus transfer to Munich International Airport with option with drop-off in Salzburg  
(alternatively visit of a biogas plant for organic waste treatment in Zwentendorf with drop off at Vienna Airport)*

1:30 pm – 5.00 pm

*Option for an additional Waste Treatment plant in Bavaria (including lunch)*

5.00 pm – 6.00 pm

*Bus transfer to Munich International Airport*



# REGISTRATION

## Registration Fees:

<b>"Early Bird" Registration Fee (Registration and Payment latest by March 31, 2017)</b>		Regular Registration Fee (Registration or Payment after March 31, 2017)	
ISWA Member	Non-Member	ISWA Member	Non-Member
€ 2,950	€ 3,450	€ 3,250	€ 3,750

Deadline for registration is May 31, 2017 ("Early Bird" before March 31, 2017)

## Online Registration:

[Registration starts 19th December 2016](#)

## Discounts:

- total of 3 participants from 3 different low- and lower-middle-income economies (according to the [World Bank list](#)) receive a 50% discount
- total of 3 participants from 3 different upper-middle-income economies receive a 20% discount on the registration fee.
- total of 3 young professionals in engineering or waste management under the age of 30 are eligible for a 50% discount.

The discounts are awarded on a first-come-first-serve basis and need to be requested by email from [gnitzsche@iswa.org](mailto:gnitzsche@iswa.org).

We encourage you to become an ISWA Member. For information please visit [www.iswa.org](http://www.iswa.org).

All stated amounts include VAT.

Registration fee includes accommodation with breakfast during the duration of the Study Tour June 18 – 23, 2017, handouts, refreshments, lunch and dinner, transportation and visits to waste treatment plants.

Upon registration, seminar participants accept all accommodation arrangements organised by ISWA.

In order to be well rested for the intense Study Tour and seminar, we recommend an earlier arrival of two days (not included in the above fees).

The programme is subject to change.

De to the nature of the programme, the number of participants is limited to:

- a maximum of 25 participants and
- a minimum of 12 participants.

Participants will receive a Certificate of Participation.

## Cancellation:

Cancellation and refund are subject to the following conditions:

- |  |            |
|--|------------|
| • Cancellation before May 31, 2017           | 50% refund |
| • Cancellation between June 1 and 17, 2017   | 10% refund |
| • Cancellation on June 18, 2017 or "no show" | no refund  |

Registration may be transferred to a nominated representative.

In case of cancellation of the Study Tour due to unforeseeable events, ISWA will refund the registration fee but no other costs incurred prior to cancellation.

For organisational matters please contact Georgina Nitzsche:

E-Mail: [gnitzsche@iswa.org](mailto:gnitzsche@iswa.org); Phone: +43 1 253 6001-22

