



Decentralised Bio-Waste Recycling

5-Day ISWA Study Tour & Training Course *

Austria, 4 to 8 September 2023

*** PLUS EUROPE'S LARGEST SHOW & EXHIBITION OF COMPOST & BIOMASS
PROCESSING MACHINES AS PART OF THE**

International Practitioner Day & Exhibition

Site visits + B2B meeting with operators and authorities

- ☞ **Open windrow Compost plant** of the **City of Vienna** (150.000 tpa)
- ☞ The practice of **separate collection of all types of bio-waste**: Organisation, responsibilities, partners, economics, information & education work
- ☞ **Key principles and techniques of open windrow composting** of food waste, garden & park waste
- ☞ Innovative **separation techniques for impurities** (plastics, metals, glass, stones)
- ☞ Biogas plant – **bio-methane** fuel production and CO₂ recovery, digestate use
- ☞ Composting: **Quality & process management** and monitoring
- ☞ **Inter-municipal cooperation** for recycling on district and provincial scale
- ☞ **Europe's biggest show of bio-mass and compost processing machines**

Lectures and Seminars

- ☞ Strategic, economic & **regulatory framework** ☞ **Technical standards** for composting & AD
- ☞ Product **quality standards** ☞ Public relations and **stakeholder involvement**
- ☞ **Agricultural cooperation** in decentralised collection and **on-farm composting**
- ☞ **Biology of composting**: key learnings in HUMUS production
- ☞ **Hygiene & odour management**, documentation, monitoring & reporting
- ☞ Compost / digestate **markets und use** ☞ compost substrate production in practice

Voices from past study tours:

★ "This Tour is an excellent combination of theoretical concepts and technical visits, especially knowing the path they have taken in Austria to make the valorisation of organic waste a state policy. Very happy to have done it." **Liz Peralta (Argentina)** ★ "I strongly recommend to anyone wanting to get a proper understanding on composting and organic recycling to learn from Florian – he has so much to offer." **Donavan Farrel, goORGANICSwa, Composting Plant (Australia)** ★ "Your course exceeded my high expectations and I enjoyed every moment. For me it represented excellent value for my time and money." **Angus Johnston, Principal Consultant, Jackson Environment and Planning Pty Ltd, (Australia)** ★ "A very important practitioner course to attend for waste management professionals, dont miss the opportunity to attend this program and enjoy the sights in Austria. Not to mention Florian is an excellent Course Coordinator!" **Paul Selvam Devadoss, CEO Robin Paul Group (Malaysia)** ★ The biowaste study tour is well worth it, providing theoretical background and on-site visits to see the value of organic waste being realised as well as interaction with experts from around the world, sharing their experience **[Shauna Costley, MoE – Rep. of South Africa]**



PROGRAM

Tour language: *ENGLISH*



Arrival in Vienna – Sunday, 3 Sep

18:00

Welcome Reception and registration for those already arrived [Hotel Regina]

Day 1 – Monday, 4 September

08:15-09:00

Drive to Bioforschung Austria, Vienna

09:00-09:30

Welcome Tour de Table - Introduction - Forecast

09:30-10:45

Key elements and structural and legal framework of successful bio-waste management – experience from Europe and Austria – strategic & legal background, key features, quantities, current development

Florian Amlinger, CEO Compost – Consulting & Development

N.N. Federal Ministry for Climate Action, Environment, Energy, Mobility, Innovation and Technology

Bio-waste and compost strategy – a best practice example from Vienna

Viktoria Wechselberger, Municipal Department 48, Waste Management, Street Cleaning and Vehicle Fleet, City of Vienna

10:45-12:30

**bioforschung
austria**

LECTURE & DEMONSTRATION: Compost, an important element in ecological soil and humus management (*Eva Erhart, Bioforschung Austria*)

12:30-13:15

Lunch Buffet: Iss mich! – Bio Catering

13:15-14:15

Drive to BIOGAS plant Margarethen am Moos

14:15-15:15

EVM

EVM Biogas Energy Supply Margarethen am Moos LTD – (60,000 tpa): liquid fermentation of agricultural by-products, energy crops, manure; upgrading bio-methane & gas station, use of CO₂ for greenhouse production (*Fritz Schwarz*) <https://evm-bioenergie.jimdo.com/english/>

15:15-16:15

General conditions for successful AD in bio-waste recycling: capacities, green electricity law, feed in tariffs general economics etc. (*Franz Kirchmeyr KBVÖ/Compost & Biogas Association Austria*) <http://www.kompost-biogas.info/>

16:15-17:30

Drive to Hotel Steinberger - Altlengbach

18:30

Dinner & round table






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 Bundesministerium
Klimaschutz, Umwelt,
Energie, Mobilität,
Innovation und Technologie

Day 2 – Tuesday, 5 September

08:30-09:00	Drive to 3er Hof – St. Poelten
09:00-11:00	<p>Bio-waste and green waste collection and composting scheme in cooperation with farmers</p> <p>Johann Freiler, Waste Management Association of the District – „St. Pölten Land“ https://stpoeltenland.umweltverbaende.at/</p> <p>30 years composting on an organic farm motivation, composting practice and compost use Family Hieret, 3er Hof) https://www.3er-hof.at/erde-und-kompost/</p>
11:00-11:30	<p>LECTURE: Towards a deeper understanding of the biology and the technique of composting – PART 1</p> <p>Florian Amlinger</p> 





11:30-12:30	Lunch
12:30-14:30	Drive to Wels
14:30 – 16:30	<p>O.Ö. Landes-Abfallverwertungsunternehmen AG (Upper Austria Waste Recycling Enterprise Inc.) – Logistics, performance and economics of an provincial integrated municipal re-use and recycling cooperation</p> <p>Christian Ehrenguber, CEO http://www.lavu.at/home.html</p>
16:30-17:30	<p>LECTURE: Towards a deeper understanding of the biology and the technique of composting – PART 2</p> <p>Florian Amlinger</p> 
17:30-18:30	Drive Transfer to Hotel Wolfsegger in Upper Austria; http://www.wolfsegger.at/
18:45	Dinner
20:00	OPEN FORUM, Q & A Session

Day 3 – Wednesday, 6 September


08:15-9:00 	The Upper Austria agricultural composting strategy <ul style="list-style-type: none"> • Historic development • the role of the authorities • environmental and waste licensing and control - important requirements <p><i>Paul Zarzer, Waste Department of the Upper Austria Government</i></p>
09:00-09:30	Drive to Composting Plant "Huemer Kompost"
09:30-11:15 	From a farmer to a professional compost facility Huemer Kompost (12.000 t/a) <ul style="list-style-type: none"> • Quality Management for high end Compost products, • Electronic quality management and documentation system, in house quality control and laboratory tests • Compost market <p><i>Rudi Huemer, Huemer Kompost; http://huemerkompost.at/</i></p>
11:15-12:15	Drive to Waste Management Association Rohrbach
12:30-13:30 	<ul style="list-style-type: none"> • How to achieve 0,2% impurities in source separated kitchen waste from households? • Separate Collection for food waste with compostable plastic and paper bags operated by a local farmer • 100% bring scheme for Garden waste to on-farm composting plant • Public relation work and logistics of municipal waste management association – on the route to Zero Waste in a rural environment <p><i>Ursula Salomon, Waste Management Association Rohrbach & the On-Farm composting scheme in Upper Austria () https://www.umweltprofis.at/rohrbach/home.html; http://www.umweltprofis.at/en/home.html</i></p>
13:30	Lunch Buffet
14:00	Visit of the Recycling Centre Rohrbach collecting > 60 waste fractions for reuse and recycling
14:30-16:30 	Visit of the On-Farm agricultural compost plant – a full service partner for <u>separate collection and composting</u> ; The farmer has been awarded with the COMPOSKAR 2017 for best quality compost and offers different compost substrates <p><i>Gerald & Karin, https://www.hofer-natur.at/</i></p>
	
16:30-19:30	Drive to Vienna – Hotel Regina https://www.hotelregina.at/de/hotel-regina-wien
20:30	Dinner in Restaurant

Day 4 – Thursday, 7 September

09:00 –09:30	Drive to Practitioner Day – Composting Plant Lobau, City of Vienna
09:30-14:00/15:00	6 th International Practitioner Day – Composting – Austrian Compost & Biogas Association
 	<ul style="list-style-type: none"> One of the largest exhibitions and machine shows in Europe presenting latest developments in compost and biomass technologies Newest innovations, trends and Visions in bio-waste technologies Leading companies present their products and services to an international audience Shredders, choppers, crushers for biomass for all purposes, Windrow turners at all scales, Screening of compost Monitoring and controlling compost process and product Loaders and transport CompOscar award of the competition of best performing composts in Austria. <p>https://www.kompost-biogas.info/6-internationaler-praktikertag-kompostierung/ http://huemerkompost.at/</p>
15:00 –17:00	Drive to Hotel Rose, Maria Taferl
17:15 – 19:00	LECTURES and Talks: <ul style="list-style-type: none"> ISWA campaigns for carbon recycling via compost and some international success stories (Marco Ricci, ISWA Working Group on Biological Treatment of Waste) European policy perspectives and challenges for a consistent biowaste recycling - role and activities of the European Compost Network (Riccardo Gambini, European Compost Network, ECN) National and International Quality Assurance Scheme for Compost – data monitoring and reporting (Florian Amlinger)
19:30	Dinner at Hotel Rose



Day 5 – Friday, 8 September

08:30-09:00	Drive to Composting Plant Seiringer - Wieselburg
9:00-11:30	Innovative Composting techniques – ~ 20.000 t composting plant: <ul style="list-style-type: none"> • Separation and pre-treatment of different organic waste fractions before composting or anaerobic digestion • Efficient forced aeration with and without bio-filter systems • Innovative purification techniques <i>Seiringer Environmental Service & composting plant http://www.seiringer.at/;</i>
11:30 – 12:30	LECTURE: Collection schemes for Bio-Waste: combined collection of kitchen and garden waste, Johannes Kadla, Waste Counselor Waste Management Association Melk
12:30-14:30	 Lunch Wrap-up Q&A Session Certificates & Official Closure
14:30-16:30	<i>Drive back to Vienna ... optional: Florian's bio-dynamic & permaculture garden and home composting</i>

What you wilo expect – methods of training

This unique series of best practice seminars offers five distinct elements for individual benefit and professional learning:

1. Seminars are given by senior experts of the [Compost & Biogas Association Austria \(KBVOe\)](#), and ISWA International public authorities as well as the facility operators and municipal waste managers and other invited experts
2. Visits to facilities demonstrating state-of-the-art bio-waste collection and recycling
3. B2B first hand forums and exchange considering the various background of the participants
4. Time for discussion and exchange of professional experiences.
5. Explanation of general conditions and how to find solutions suiting the individual framework conditions:
 - from an economic point of view
 - from a technical point of view
 - from an organisational point of view

The technical site visits will provide an opportunity to see diverse biological treatment facilities for organic waste. And to meet also technology suppliers as well as international consultants and advisers. You will experience high level professional composting techniques and quality management from large (100.000 t) in cities to small scale (1000 t) in rural environments

Your accompanying leader of the study tour



Florian Amlinger – Tour Leader Agronomist, CEO of Compost – Consulting & Development and co-founder of '100NGO' and European Compost Network (ECN e.V). 30 years research and development projects on separate collection and composting, process optimisation, quality testing, humus management, international quality assurance and planning of composting plants.

Partners:


**kompost
& biogas
verband**


Registration at ISWA's Tour Webpage:**[Register online here](#)****The final deadline of registration is 25 August 2023**

Register for the ISWA study tour by selecting one of the ticket options below. Early bird has a discount of 10% and will be available until July 4th. Overall registration will close on 25th of August 2023.

Registration fees include accommodation with breakfast from September 3 –8 2023, course participation, course materials, refreshments, lunch and dinner, as well as transportation and visits to the waste treatment plants. 21% VAT is applicable to the fees and is mentioned clearly when it is included. Student and Online ISWA memberships are not eligible for the discounted fee. Upon registration, participants accept all arrangements by ISWA, ISWA Austria and Florian Amlinger – 'Compost – Consulting & Development'. The organisers do not assume liability during field demonstrations and technical visits. Travel health insurance is advisable. The programme may be subject to change. Participants will receive a Certificate of Participation.

Please email events@iswa.org for group discounts (from 3 people) or for low-/low-middle income economies discounted tickets (50% off, 3 available on a first come first serve basis).

Registration fee (inclusive 21% VAT)

Early Bird Regular until 4 July	Early Bird ISWA or ECN member EUR 2350.-	Regular after 4 July until 25 August EUR 3150,-	Regular ISWA or ECN Member EUR 2600,-
EUR 2850.-			

Accommodation

Part of the registration fee is a 5 night hotel room stay. Recommended date of arrival: Sunday, 3rd of September 2023
Recommended date of departure: Saturday, 9th of September 2023.

3-4 September Hotel Regina, Vienna	4-5 September Hotel Steinberger	5-6 September Hotel Wolfsegger
6-7 September Hotel Regina, Vienna	7-8 September Hotel Rose	

Please consult with the hotel directly in case you would like to book additional nights before and/or after the tour. Participants will be accommodated in comfortable, single room hotels with breakfast and WiFi.

Cancellation policies

ISWA reserves the right to cancel the course if the minimum number of participants is not reached.

Minimum number of participants: 12. Registration may be transferred to a nominated representative. Any cancellation of registration must be submitted in writing to ISWA by e-mail: events@iswa.org

Cancellation and refund will be subject to the following conditions:

- Cancellation until 28th July 2023: 50% refund
- Cancellation until 18th August 2023: 10% refund
- Cancellation after 18th August 2023 or "no show": No refund

In case of cancellation of the study tour due to unforeseeable events including pandemic regulations. ISWA will refund the registration fee but no other costs incurred prior to cancellation. In case of cancellation of a registrant the above rules apply.

Bank transfer costs will be deducted from any refund.

Contact

- ... **Zhiren Ye** (Event Manager ISWA) for registration matters or to cancel registration
Email: events@iswa.org; Phone number: +31 (0)10 808 3990
- ... **Florian Amlinger** (Tour Leader, Compost – Consulting & Development)
for questions on the program, location & infrastructure
Email: f.amlinger@kabsi.at

Handouts & Certificate

Participants will receive a complete hand-out with all presentations and data sheets of the visited installations together with a certificate of participation.