Bioeconomy Study Tour Northern Italy

Sunday 13th – Tuesday 15th October 2019 | *Wednesday 16th (Optional Day for Delegates)*

cré Composting & Anaerobic Digestion Association *of* Ireland

Organics Recycling Group Renewable Energy Association

REA Renewable Energy Association

BBIA Bio-based and Biodegradable Industries Association

Cré, in partnership with Organics Recycling Group of the Renewable Energy Association and the Bio-based and Biodegradable Industries Association (BBIA) has put together a bioeconomy study tour in the Milan and Veneto regions of Italy to visit:

- Food waste collections systems in Milan
- Composting/biogas plant
- Novamont's Head Quarters and Research Laboratories
- SESA's integrated composting/anaerobic digestion plant.

The tour will allow you to learn what the leading pioneers in Italy are doing to develop the italian bioeconomy sector. The study tour is intended to give an overview of current best-practices and approaches in food waste separate collection and recycling.

The study tour includes the following:

- Flights
- B&B accommodation (single rooms)
- Evening meals
- Lunches
- Internal travel within Italy

PLACES ARE STRICYLY LIMITED TO 25 AND OFFERED ON A FIRST COME BASIS

Booking Deadline is 31 August 2019

Milan Food Waste Collections

In 2013, the separate collection of food waste began in north-east area of Milan and now all of Milan householders, many businesses and markets have access to food waste collection services. It is the best example in the world of a large, high density conurbation where food waste collection has been successfully implemented. On average it collects over 85 Kg of food waste per person per year.

An overview of the collection system can be viewed on this short YouTube video:
https://www.youtube.com/watch?v=zSjBbp-Q3lU

Novamont

The Novamont Group is world leader in the development and production of bioplastics and biochemicals through the integration of chemistry, the environment and agriculture. With 600 employees, the Group posted sales of €170 million in 2016 and made continuous investments in research and development activities (20% of staff) and has a portfolio of around 1,000 patents.

SESA

In 1997, SESA realised a composting plant was needed to treat garden and food waste from separate collections. After a number of years, a anaerobic digestion element was added to the plant. The visit to SESA will be a real eye-opener to those who had never seen such an integrated plant, one that manages over 500,000 tonnes of brown bin material annually, and produces biomethane, electricity from biogas, high grade compost, district heating and heating for local greenhouses, as well as providing an in-house water treatment plant for effluent- and all topped by solar panels.

Details on SESA can be found on here: http://www.sesaeste.it/impianti.php

Entsorga

Territorio e Risorse S.r.l., 100% owned by Entsorga, is the holder of Santhià composting plant that is the proven and proprietary Entsorga's Bee technology. In February 2016 Entsorga obtained the authority to build and operate the Santhià composting plant expansion project with anaerobic digestion. The plant capacity is 50,000 tpa of organic waste.

http://www.entsorga.it/ENG/case_studies/territorio_e_risorse_srl_santhia_italy.html

Contarina

Organics from the brown bin are pre-processed with a press. Liquid part is sent to an AD plant whereas the solid part is composted on site. The facility has been revamped and inaugurated in September 2018. Plans are to add an on site Kompogas AD stage at the front end. An example of modern, highly flexible medium sized composting plant.

https://contarina.it/en
https://contarina.it/chi-siamo/impianti/compostaggio

Sunday 13th October		
	• Depart Dublin / UK and arrive in Milan Airport in late evening. • Transfer from the airport to a hotel in Novara	
Monday 14th October		
09.00	**Novamont Headquarters** This visit will: • Introduce Novamont's realisation of industrial-scale bioeconomy which links agriculture, chemistry and the environment • Novamont's pilot scale plants and laboratories • Explain compostability, its role and potential in improving (organic) waste systems Presentation on Measuring Contamination in Food Waste Collections	
	Lunch in Novara	
13.00	**Entsorga - Composting Plant** This plant processes 40,000 tonnes of food waste. The plant also used as a testing site for compostable packaging.	**Milan City** People have the option of not going to the Entsorga plant and instead can be transferred to Milan City to do some shopping/sightseeing.
	Back to Milan hotel in the early afternoon	
19.00	Meet for Dinner	
Tuesday 15th October		
07.00	**Visit to a Separate Food Waste Collection System managed by AMSA for Apartments/ Markets in Milan near the hotel**	
09.30	**Visit to the AMSA offices**	
	Delegates Transfer to Treviso (lunch at Autogrill)	
15.30	**Visit to the Contarina composting facility in Trevignano (73k tpa capacity)** Organics from the brown bin are pre-processed with a press. Liquid part is sent to an AD plant whereas the solid part is composted on site. The facility has been revamped and inaugurated in September 2018. Plans are to add an on site Kompogas AD stage at the front end. An example of modern, highly flexible medium sized composting plant.	
	Transfer to Airport for Delegates to Ireland	
18.00	Arrive at Hotel	
19.00	Dinner	
Wednesday 16th October (Optional)		
08.30	Depart Hotel	
09.00	**Arrive at the SESA plant**	
12.30	Lunch	
14.00	SESA Plant	
16.00	Depart for Airport	
	Venice Marco Polo Departs 21:40 and arrive in Stansted at 22.50	

Options

The tour is designed to give Irish delegates an option of attending two or three days, as some people will have visited the SESA plant in 2017.

The tour is designed for delegates from the UK to attend three days.

Below are a few options for delegates travelling from Ireland and the United Kingdom.

If you are able to organise and find more suitable flights for your travels, please take €200 off the study tour fee when registering on the tour.

OPTION A: 2 DAYS- IRISH DELEGATES (DUBLIN AIRPORT)
Depart Dublin on 13th and arrive at 21.30 in Milan Bergamo
Depart Tuesday 15th at 18.05 from Venice Treviso arrive at 19.55 in Dublin

OPTION B: 3 DAYS - IRISH DELEGATES (DUBLIN AIRPORT)
Depart Dublin on 13th and arrive at 21.30 in Milan Bergamo
Depart Wed 16th – Depart Milan Bergamo at 21.55 and arrive in Dublin at 23.30

OPTION C: 3 DAYS UK DELEGATES – (STANSTED AIRPORT)
Depart Stansted on 13th 16.00 and arrives 19.00 in Milan Bergamo
Depart Wed 16th from Venice Marco Polo at 21:40 and arrive in Stansted at 22.50

OPTION D: ORGANISE OWN FLIGHTS
Delegates who organise their own flights

Fees

TOUR OPTION	PRICE EUROS EX VAT (23%)
A	€1500
B	€2000
C	€2000
D	Tour price minus €200

If UK delegates provide their company VAT number, vat is not charged.

Booking

To make a booking, email the booking form to Sinead (sinead@cre.ie) the following:

An invoice will be then sent to you. When payment has been received, your booking will be confirmed.

Cancellations: If you cancel your booking, you will be refunded minus the cost of the flight and administration charges.

ANY QUERIES CONTACT THE FOLLOWING: Sinead Clinton

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