

Bioeconomy Study Tour Northern Italy

Sunday 14th – Wednesday 17th October 2018 *Wednesday 17th (Optional Day for Irish Delegates)*



Cré, in partnership with Organics Recycling Group of the Renewable Energy Association, 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 STRICTLY LIMITED TO 25 AND OFFERED ON A FIRST COME BASIS
Booking Deadline is 7th September 2018

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, an 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 food and garden waste 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 the 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

Sunday 14th October

- Depart Dublin / UK and arrive in Milan Airport in late evening.
- Transfer from the airport to a hotel in Novara.

Monday 15th October

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| 09.00 | Novamont Headquarters This visit will: <ul style="list-style-type: none">• 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 <ul style="list-style-type: none">• The Italian Composting and Biogas Association (CIC) | |
| | Lunch in Novara | |
| 13.00 | Entsorga - Composting Plant This plant processes 50,000 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. |

Tuesday 16th October

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| 07.00 | Visit to a Separate Food Waste Collection System managed by AMSA for Apartments/ Markets in Milan near the hotel |
| 08.30 | Visit to the AMSA offices |
| 13.00 | Lunch in Milan |
| 14.00 | Details of Site Tour To Be Confirmed |
| | Delegates Depart for Airport back to Ireland |
| 18.00 | Remaining Delegates Arrive at Hotel |
| 19.00 | Dinner |

Wednesday 17th October (Optional)

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| 08.30 | Depart Hotel |
| 09.00 | Arrive at the SESA plant |
| 12.30 | Lunch |
| 14.00 | SESA Plant |
| 18.00 | Depart for Airport |

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 last year.

The tour is designed for delegates from the UK to attend three days. If UK delegates want to organise their own flights for a two day trip; they will have to organise their own travel to/from the airport if it is a different airport than Malpensa, Milan.

Below is 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 14th and arrive at 2155 in Malpensa, Milan
Depart Tuesday 16th at 2230 from Melpensa arrive at 12 midnight in Dublin

Option B: 3 Days - Irish Delegates (Dublin Airport)

Depart Dublin on 14th and arrive at 2155 in Malpensa, Milan
Depart Wed 17th depart Milan at 2155 arrives at 12 midnight in Dublin

Option C: 3 Days UK Delegates – (Stansted Airport)

Departs Sun 14th from Stansted at 18.20 and arrives at Milan Maplensa at 21.20
Departs Wed 17th from Treviso (Venice) at 21.30 and arrives at 22.40 at Stansted

Option D: Organise Own Flights

Delegates who organise their own flights

Fees for Cré & REA Members

| Tour Option | Price Euros ex vat (23%) |
|-------------|--------------------------|
| A | €1500 |
| B | €2000 |
| C | €2000 |
| D | Tour price minus €200 |

Non members pay an additional 15%

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 recieved, your booking will be confirmed.

Cancellations: If you cancel your booking before 1st Oct, you will be refunded minus the cost of the flight and administration charges. After 1st Oct 50% of the fee will be refunded.

Any Queries Contact the Following:

Sinead Clinton

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W: www.cre.ie