



Composting & Anaerobic Digestion  
Association of Ireland

## BIOECONOMY STUDY TOUR VENICE, ITALY

**SUNDAY 15TH - TUESDAY 17TH OCTOBER 2017**

Cré, in partnership with Novamont and SESA has put together a bioeconomy study tour to Venice Italy to visit Novamont's biorefinery and SESA's integrated composting/anaerobic digestion plant.

This tour will be a unique opportunity to have access to the commercial scale biorefinery that will be of interest to people in the organic waste processing sector as well as the food processing sector in Ireland.

The tour will allow you to learn what the leading pioneers Novamont and SESA are doing to develop a bioeconomy industry in Italy.

**The study tour includes the following:**

- ▶ Flights from Dublin to Venice
- ▶ Two nights B&B accommodation (single rooms)
- ▶ Two evening meals
- ▶ Two lunches
- ▶ Internal travel within Italy
- ▶ Visit to Italian Castle

### **NOVAMONT'S MATER BIOTECH BIOREFINERY**

Novamont's Materbiotech is a new biorefinery facility that ferments glucose via E. Coli for 1.4 Butanediol production for captive use by Novamont (first and only facility in the world at present, producing it from renewable resources).

Biobutanediol is a dialcohol used in the production of the compostable polyesther along with the fatty acids in an esterification process). The fermentation residues (dead E. Coli bugs) are digested on site in a wet anaerobic digester and the biogas is used for internal energy supply.

To best understand the plant view the short animation <https://youtu.be/zsEfH8-2uN4>

Details on the plant can be found here: [http://novamont.it/eng/page.php?id\\_page=79](http://novamont.it/eng/page.php?id_page=79)

### **SESA (COMPOSTING/ ANAEROBIC DIGESTION)**

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>

**PLACES ARE STRICTLY LIMITED AND OFFERED ON A FIRST COME BASIS**

# TOUR DETAILS

SUNDAY 15 <sup>TH</sup> OCTOBER	
14.00	Depart Dublin (Ryanair FR 9452)
17.40	Flight Arrives in Venice Marco Polo Airport
20.00	Evening Meal in Traditional Venice Restaurant
MONDAY 16 <sup>TH</sup> OCTOBER	
09.00	Depart Hotel
10.00	Visit Novamont Mater Biotech Biorefining Plant
13.00	Depart Novamont Mater Biotech Biorefining Plant
13.30	Traditional Italian Lunch
15.00	Details to be confirmed for the afternoon
18.00	Arrive at Hotel in Este or Padua (hotel to be confirmed)
19.00	Evening Meal in Restaurant
TUESDAY 17 <sup>TH</sup> OCTOBER	
08.30	Depart Hotel
09.00	Arrive at the SESA plant
12.00	Depart SESA
12.30	Lunch
13.30	Tour of Historical Castle- <a href="http://www.castelloestense.it/en">http://www.castelloestense.it/en</a>
15.00	Depart for Airport
18.05	Depart (Ryanair FR 9451) from Marco Polo, Venice Airport
19.55	Flight arrives in Dublin Airport

## FEE:

**Members:** €1500 ex vat

**Non members:** €1750 ex vat

## BOOKING:

To make a booking, email Sinead ([sinead@cre.ie](mailto:sinead@cre.ie)) the following:

- ▶ Name on your passport
- ▶ Invoice address
- ▶ Any special dietary needs

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 Cinton – [sinead@cre.ie](mailto:sinead@cre.ie) - 0861747941

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## Cré (Composting & Anaerobic Digestion Association of Ireland)

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