



# BIOGAS AND ANAEROBIC DIGESTION SITE VISITS AND STUDY TOUR

(Latest date for booking is Monday August 20th 2017)

## THE NETHERLANDS 6-8TH SEPTEMBER 2017

The purpose of the programme is to give participants an in-depth vision of how biogas and anaerobic digestion plants function within the context of treating urban, animal and sewage biodegradable waste streams in The Netherlands.

In The Netherlands there are currently 252 functioning digesters with 219MW installed electrical capacity and 11,905 Nm<sup>3</sup>/hr biomethane upgrading capacity (IEA Bioenergy, 2016). The Ministry of Economic Affairs (RVO) has made information on all the installations available online. <http://arcg.is/2sJyTgu>

There are 25 biogas upgrading plants feeding biomethane into the gas grid or using it as vehicle fuel. The most common technology used for upgrading biogas to biomethane is membrane separation.

Unlike many other countries, the percentage of energy in biogas utilised as heat is 56% while that as electricity is 33%. 8% of the energy is used as vehicle fuel which is amongst the highest in the world. Many

of these plants are associated with Groen Gas Netherlands, an industry body, with whom this programme is organised.

The tour will visit several plants and allow time both for understanding the technologies used, as well as discussing with plant operators and senior government officials, the economic, legislative and social barriers within which they are working. This tour is an essential element in helping you understand both cutting-edge and more traditional technologies in the biogas sector and to exchange experiences both with operators and other participants on the tour.

Among the sites we have included several options of feedstock material, application and size.

The tour is led by Freek Van Eijk, Advisory Board member of WBA and Dutch waste management expert, owner of consultancy Acceleratio B.V., who will guide you through the two days (Freek speaks Dutch, English and Italian).

## PROGRAMME

### Tuesday September 5th

- You should plan to arrive at the designated hotel in the Amsterdam area by 7pm.
- Dinner will be at 7.30pm. The dinner is an opportunity for all participants to get to know each other and to explain the logistics of the next three days. Joining us at dinner will be Mr Mathieu H.M. Dumont Senior advisor bio-energy of the National Enterprise Agency of the Government of the Netherlands.

### Wednesday September 6th

- Departure from Hotel at 8.00am
- Site visit 09.00am to 12.00pm and lunch
- Site visit 2.00pm to 5pm
- Evening: Presentation from Marieke van der Werf Corporate Communications and Public Affairs, Groen Gas and a meeting and cocktail with members of the Groen Gas network is organised for this evening. Dinner follows.

### Thursday September 7th

- Departure from Hotel at 8.00am
- Site visit 09.00am-12.00 pm and lunch
- Site visit 1.00pm-3.00pm
- Visit to The Waste Transformers 4.00pm
- Cocktail offered by The Waste Transformers following the visit to their site in the afternoon
- Return to hotel, dinner.

### September 8th

- Departure in the morning

### Cost:

**For members of WBA or members of association members of WBA:** Euro 1.100 **For non members:** Euro 1.400  
(VAT at 20% may be applicable under English law )

### The tour includes

1. your transport within the Netherlands from the pick - up point (hotel) to the drop off point (Schipol Airport or hotel) for three days
2. your hotel accomodation in 3 or 4 star hotels for the nights of September 5, 6 and 7th 2017
3. your meals –three breakfasts (6,th 7th and 8th) two lunches (6th, 7th) and three dinners (5th, 6th and 7th)
4. your guide
5. all relevant papers regarding the sites to be visited
6. bottled water during the day and at meals

### The tour excludes

7. your travel to and from the Netherlands hotel of choice
8. your personal insurance (we highly recommend you take travel insurance)
9. alcoholic drinks

You are advised to wear strong shoes and casual clothing and have at least one change of clothes as in some cases you may be subject to some odours. In each visit you will be provided with a safety helmet and a visitor jacket.

The tour will take place with a minimum of 15 and a maximum of 20 persons.

To book your place fill in and email us the registration form on the reverse. You will receive confirmation when the minimum number has been reached and only then will you be invoiced and a request for your payment be made.



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## THE NETHERLANDS 6-8TH SEPTEMBER 2017

### REGISTRATION FORM (ONE FORM FOR EACH PERSON REGISTERING)

Your personal name:

Your company/entity name:

Your postal address:

Your email address:

Your phone number (office)

(cellphone)

(please include country code in the number)

Your VAT number if applicable:

I am/I am not a member of WBA

**FEE: €1,100 PER PERSON FOR WBA MEMBERS;  
€1,400 PER PERSON FOR ALL OTHERS**

Upon receipt of the registration form you will receive an invoice to pay immediately to ensure your place on the tour. Payment details will be included in the invoice. Invoices will only be issued once the minimum number of tour participants is reached (15) and the tour is confirmed, by August 15th latest.

By signing this registration form you are committing to take part in the tour as per programme and to paying the relative fee. There is no refund applicable should you wish to cancel your place, so you are advised to take out travel insurance to cover potential refund and any potential medical costs/loss of baggage during your stay.

Authorised Signature:

Date:

Send your completed form to Gayle [gbrandonkirby@worldbiogasassociation.org](mailto:gbrandonkirby@worldbiogasassociation.org)