

Anaerobic Digestion and Biomethane – A Practical Guide

Friday 26th June 2009

9.00am – 4.30pm

Temperton Room, Harper Adams University College
Edmond, Newport, Shropshire, TF10 8NB

Harper Adams University College is pleased to continue its series of practical events in Bio-energy systems with a workshop entitled 'Anaerobic Digestion and Biomethane – A Practical Guide' which has been organised under the BioenergyWM initiative. This workshop will provide businesses and organisations with the knowledge, business case and technical specifications needed to assist with the decision as to whether or not to install an anaerobic digester system. The Course Leaders for the workshop will be Mike Woollacott from Greenwatt Technology Ltd – an experienced bio-energy consultant and an energy farmer himself, and Hardy Radke, the UK Technical Director of MT-Energie UK Ltd and a specialist in developing A/D systems. MT Energie are one of the leading German manufacturers and installers of A/D and Biomethane technologies on farms and industrial situations with more than 160 installations operating across Europe. The cost of the workshop is £30 as it is presently subsidised by funding from Advantage West Midlands.

The BioenergyWM Initiative was established in 2005 by Harper Adams University College and the West Midlands Farming & Food Team. The broad vision of this initiative is to promote interest and activity in, and markets for, bioenergy in the West Midlands. Funding for delivery of the BioenergyWM initiative is provided by the AWM Science City Demonstration Fund.

Why you should attend the seminar:

If you are a business or organisation considering the possible installation of an A/D system in the near future or considering biogas upgrading then this is the workshop for you. It is a practical day that will include project development and planning, project implementation, installation and operation. The workshop will use worked examples and case studies to provide 'hands-on' experience and equip delegates with knowledge and decision-making skills to take away and use in planning their own projects.

Delegates will have the opportunity both during and after the workshop to review their own situations and needs – and are encouraged to bring along their own data and information. For those interested in taking their ideas further, MT Energie are pleased to offer the opportunity for 1:1 discussions after the workshop.

Who should attend?

- Farmers, landowners, local authorities, food processors, food retailers or other producers of food or green waste

To register on either of the workshops simply email: Gaynor Orton on: gorton@harper-adams.ac.uk or tel: 01952 815 019, giving your name, business name and contact details.

A full booking form will then be sent to you for completion, and should be returned with a cheque for £30. **Places will be allocated on a first come first serve basis.**

‘Anaerobic Digestion and Biomethane – A Practical Guide’

9.00 - 9.30	Welcome & Course Introduction - coffee, delegate introductions and objectives
9.30 - 9.50	Session 1 - Anaerobic Digestion and Bio-methane Overview An overview of the sector, its potential contribution to the UK energy mix, the drivers for adoption, incentives and barriers. (Session Leader - Mike Woollacott Greenwatt Technology)
9.50 -10.10	Session 2 - Anaerobic Digestion – the basic processes What goes in, what comes out and what happens in between. (Session Leader - Mike Woollacott)
10.10 - 10.30	Session 3 – Bio-methane from A/D Adding value to biogas – the opportunities, costs and benefits. Brief technical requirements and cost benefit analysis. (Session Leader - Mike Woollacott)
10.30 – 10.45	Summary Session / Q&A – Setting the scene for an A/D project
10.45 -11.00	Tea/Coffee
11.00 – 12.00	Session 4 – Building the A/D plant – the engineering bits! Components of an A/D plant; construction and operation. (Session Leader – Hardy Radke MT Energie-UK Ltd)
12.00 -12.30	Session 5 – Economics of A/D Building the business case – costs and benefits (Session Leader – Hardy Radke MT Energie-UK Ltd)
12.30 -1.30	Lunch in the Dining Room
1.30 – 2.30	Session 6 – Case Study Presentation of a worked example of a farm-based A/D plant. Project initiation; system design; cost planning; stages of development; timescales; planning process; feedstocks available; energy outputs; digestate and residue processing; results. (Session Leader – Hardy Radke MT Energie-UK Ltd)
2.30 – 3.30	Session 7 – Group planning exercise Groups will consider a number of possible scenarios for A/D installations and use case study materials and data provided to make team decisions as to whether and how to proceed with set projects. Workshop participants may wish to use their own situation and data to build a business case for A/D (and possibly bio-methane).
3.30 – 4.00	Group Feedback Session Presentation of findings of each group, reasons behind decisions made, and discussion.
4.00 – 4.30	Summary of workshop content – ways forward, action planning & goal setting.
4.30	Workshop Close
4.30 – 5.30	‘Commercial Surgery’ – a 1:1 opportunity for those wishing to discuss individual situations and next steps with MT Energie-UK Ltd (pre-booking required)