

European Biogas Workshop and Study Trip The Future of Biogas in Europe III

14-16 June 2007

University of Southern Denmark
Niels Bohrs Vej 9-10, Esbjerg – Denmark

The workshop is co-funded by the European Commission throughout the IEAA - ALTENER project PROBIOGAS - *Promotion of Biogas for Electricity and Heat Production in EU Countries - Economic and Environmental Benefits of Biogas from Centralised Co-digestion*

Workshop programme

Thursday, 14 June 2007

Biogas from anaerobic digestion in a European perspective

- 12:00-13:00 Registration and quick lunch
- 13:00-13:10 Welcome and opening address
By Teodorita Al Seadi - PROBIOGAS coordinator
University of Southern Denmark, Esbjerg, Denmark
- 13:10-13:30 Biogas, an important player within the European renewable energy strategy-
Outlook for European and Danish policy framework for biogas and bioenergy
By Kim Mortensen, member of the Danish Parliament

Implementing biogas from centralised co-digestion in Europe: Assessment results from the PROBIOGAS project

- 13:30-13:50 “If you can’t find a way, make a way”- The concept and objectives of PROBIOGAS
By Teodorita Al Seadi, University of Southern Denmark, Bioenergy Department, Esbjerg, Denmark
- 13:50-14:20 Economic effects, barriers, and incentives of biogas from centralised co-digestion
By Kurt Hjort-Gregersen, University of Copenhagen, Institute of Food and Resource Economics, Copenhagen, Denmark
- 14:20-14:50 Environmental externalities of centralised co-digestion
By Sven G. Sommer, Danish Institute of Agricultural Sciences, Horsens, Denmark
- 14:50-15:20 Socio-economic aspects of centralised co-digestion
By Lars Henrik Nielsen, Risoe National Laboratory, Roskilde, Denmark
- 15:20-15:50 Coffee break

Biogas in Europe: Best-practice examples of non-technical barriers break down

- 15:50 -16:20 The impact of national policies and economic frames for the development of biogas in Germany
By Gepa Porsche and Claudius da Costa Gomes, German Biogas Association, Freising, Germany
- 16:20 -16:50 Efficiency of energy crop digestion - evaluation of 41 full scale plants in Austria
By Rudolf Braun, University of Natural Resources and Applied Life Sciences, Department for Agrobiotechnology, IFA-Tulln, Vienna, Austria
- 16:50 -17:20 Biogas upgrading and utilisation as vehicle fuel
By Margareta Persson, Swedish Gas Center, Malmö, Sweden
- 17:20-17:50 AD on the move – United Kingdom 2007
By Clare Lukehurst, United Kingdom
- 17:50-18:15 A farmers experience as a member of a centralized co-digestion plant
By Henrik Høeg, farmer, chairman of the Danish Biogas Association
- 18:15-18:45 Panel discussions
- 19:15 - Workshop Dinner**

Friday, 15 June 2007

Biogas in Europe: Technologies, trends, visions

- 09:00- 09:30 Innovative AD technologies for solving the farmer's problem of excess manure. Example and results from the Pig-man project in Denmark
By Rena Angelidaki, Technical University of Denmark, Inst. of Environment and Resources, Lyngby, Denmark
- 09:30 -10:00 Current state and new biogas initiatives in Bulgaria
By Ivan Simeonov, Institute of Microbiology-Bulgarian Academy of Sciences, Sofia, Bulgaria
- 10:00 - 10:30 Veterinary safety in relation to handling of manure and animal by products and the use of biogas technologies
By Dorthe L. Baggesen, Technical University of Denmark, National Food Institute, Copenhagen, Denmark
- 10:30-11:00 **Coffee break**
- 11:00- 11:30 Digested manure is a valuable fertiliser
By Torkild Birkmose, Danish Agricultural Advisory Service, Skejby / Aarhus N, Denmark
- 11:30-12:00 Further technical development and economic sustainability of co-digestion
By Johannes Christensen, University of Copenhagen, Institute of Food and Resource Economics, Copenhagen, Denmark
- 12:00 -12:30 The future of biogas in Europe: Visions and targets until 2020
By Jens Bo Holm-Nielsen – Centre of Ind. Biotechnology and Bioenergy Aalborg University & University of Southern Denmark, Esbjerg, Denmark
- 12:30-14:00 **Lunch**

Incentives vs. barriers and how to move further: Outcomes of the PROBIOGAS case study assessments

- 14:00-14:30 Future for large scale digestion in the Netherlands?
By Bert Van Asselt, SenterNovem, Utrecht, the Netherlands
- 14:30-15:00 Analysis of the needs and opportunities for the setting up of a centralised co-digestion plant in the grazing area of the Province of Liège
By Fabienne Rabier & Gaëlle Warnant, Agric. Research Centre, Agric. Eng. Dep. & ValBiom asbl, Chaussée de Namur, Belgium
- 15:00-15:30 Overview of centralised biogas plants projects in France. Will the new economic incentives overcome the administrative barriers?
By Christian Couturier, Association SOLAGRO, Toulouse, France
- 15:30-16:00 **Coffee break**
- 16:00-16:30 Achieving environmental and agricultural benefits from centralised co-digestion in Ireland
By Vicky Heslop, Methanogen Ltd., Tooracuragh, Ireland
- 16:30-17:00 Barriers and incentives of centralised co-digestion in Spain. Case study of Pla d'Urgell, Catalonia
By Joan Mata-Álvarez, University of Barcelona, Dept. of Chemical Engineering, Barcelona, Spain
- 17:00-17:30 Biogas in Greece: Current situation and perspectives
By Christos Zafiris, Center for Renewable Energy Sources, Pikermi, Greece
- 17:30 – 18:00 Panel discussions
- 18:00 -18:15 Closing address
Teodorita Al Seadi, SDU-Denmark
- 18:15 End of the workshop and the afternoon at your disposition

Saturday, 16 June 2007:

Guided study tour to biogas sites in Jutland, Denmark

8:30	Departure by bus from SDU, Esbjerg
8:30-10:30	Bus travel and guided tour to Blaabjerg centralised co-digestion plant, in the south-western part of Jutland
10:30-11:45	Bus travel and guided tour to Hegndal farm scale biogas plant and post-separation facilities, in the south-western part of Jutland
11:45-13:30	Bus travel and lunch in Filskov town, situated in the central part of Jutland
13:30-14:30	Guided tour to Filskov Energy Company
14: 30- 16:00	Bus travel to Esbjerg

NB: Driving back to Esbjerg we will stop at Billund Airport, around 14: 45 and at Esbjerg Airport, around 15:45

16:00	Back to SDU, Esbjerg
-------	----------------------

For PROBIOGAS partners only

16:30-18:30 **Final project meeting at SDU Esbjerg**

19:00- **Dinner**