

European Biogas Workshop The Future of Biogas in Europe III

14-16 June 2007, Esbjerg – Denmark

University of Southern Denmark

Niels Bohrs Vej 9-10

Co-funded by the European Commission throughout

PROBIOGAS: Promotion of Biogas for Electricity and Heat Production in EU Countries - Economic and Environmental Benefits of Biogas from Centralised Co-digestion,

An IEEA - ALTENER project.

Workshop programme - 3rd update

Thursday, 14 June 2007

Biogas from anaerobic digestion in a European perspective

13:00-13:10

Welcome and opening address

By Teodorita Al Seadi - PROBIOGAS coordinator

University of Southern Denmark, Esbjerg, Denmark

13:10-13:30

European energy strategy and policy framework for biogas and bioenergy.

NN, IEEA

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

13:30-14:00

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

14:00-14:45

Economic effects, barriers and incentives of biogas from centralized co-digestion.

By Kurt Hjort-Gregersen, University of Copenhagen, Institute of Food and Resource Economics, Copenhagen, Denmark

14:45-15:15

Environmental externalities of centralized co-digestion

By Sven G. Sommer, Danish Institute of Agricultural Sciences, Horsens, Denmark

15:15-15:30

Coffee break

15:30-16:00

Socio-economic aspects of centralized co-digestion.

By Lars Henrik Nielsen, Risoe National Laboratory, Roskilde, Denmark

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

16:00 -16:30

The impact of national policies and economic frames for the development of biogas in Germany.

By Claudius da Costa Gomez, German Biogas Association, Freising, Germany

16:30 -17:00

Efficiency of energy crop digestion - evaluation of 41 full scale plants in Austria.

By Rudolf Braun, Institut für Umweltbiotechnologie, Interuniversitäres Department für Agrarbiotechnologie - IFA Tulln Universität für Bodenkultur Tulln, Austria

17:00 -17:30

Biogas upgrading and utilization as vehicle fuel.

By Margareta Persson, Swedish Gas Center, Malmö, Sweden

17:30-18:00

AD on the move – United Kingdom 2007

By Clare Lukehurst, United Kingdom

18:00 – 18:30

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 Biogas in the new EU member states.
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 fertilizer.
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 centralized 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 centralized co-digestion in Ireland.
By Vicky Heslop, Methanogen Ltd., Tooracuragh, Ireland
- 16:30-17:00 Barriers and incentives of centralized co-digestion in Spain. Case study of Pla d'Urgell, Catalonia.
By Joan Mata-Álvarez, University of Barcelone, 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 centralized 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