

**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 - 3<sup>rd</sup> 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

**For PROBIOGAS partners only**

- 16:30-18:30                      Final project meeting at SDU Esbjerg**
- 19:00-                                Dinner**