



biochain

WORKSHOP 2014

27-29 OCTOBER
JOINT WORKSHOP WITH NORWEGIAN PARTNERS
WWW.BIOCHAIN.DK



About the BioChain project

The aim of the BioChain project is to contribute to an economically sustainable biogas production and to GHG reductions. Biogas production and emission of GHG are invariably related to biomass composition and the biomass management chain from production in agriculture, households and industries to field application. The optimisation of the economy in the value chain of biomass management in biogas production will be supported by a new method for characterising the vast variety of biomass available in order to assess:

- 1) The biogas production potential of traditional and alternative feedstocks with and without pre-treatment.
- 2) Effects on downstream GHG emissions and carbon sequestration through field application of residues.

The novel integration of value chain and new biomass characterisation will help identify barriers to biogas production at the production and political levels, and the results will be targeted to be of use in the public and private sector.

The project is supported financially by the Danish Council for Strategic Research, Danish Ministry of Science, Technology and Innovation, the program for sustainable energy and environment.

Background and Objective of the workshop

At this workshop, the intention is that the Danish researchers present results of their research and, very briefly (1-2 slides), their plans for future research activities. DTU-M collaborates with a Norwegian partner, Østfold-forskning, and Sven G. Sommer is involved in the Norwegian BioValueChain project coordinated by Ole Jørgen Hanssen (Østfoldforskning). Our Norwegian collaborators are invited to this workshop and will present results and project plans. Danish companies from the biogas sector will present biogas technologies and visions for future biogas production.

The aim is to:

- Get feedback on the work carried out so far, and ideas for planning up-coming research activities
- Share knowledge and provide an opportunity for the participants to meet and discuss joint projects ideas.
- Support sharing of data with the objective to gain new knowledge and write articles presenting the outcome of the joint work.

Venue:

Aarhus University, Research Centre Foulum, Meeting room 2, Blichers Allé 20, P.O. Box 50, 8830 Tjele.

Dates

Monday the 27th October 12:00 till Tuesday the 28th October 17:00 2014.
Internal Biochain meeting: Wednesday the 29th October 2014.

Hotel

Golf Hotel Viborg:
Randersvej 2, 8800 Viborg
GPS: 56.4498 N 9.4182 Ø
Phone: +45 86 61 02 22 · <http://www.golfhotelviborg.dk/>

Reduced price for the Workshop participants : 860kr/night including breakfast (For more details on hotel reservation, kindly contact Jinmi Triolo (jmt@kbm.sdu.dk ,Tel 41178867)

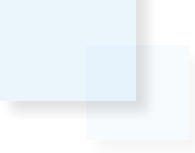
Transport

University of Southern Denmark and Aarhus University will provide 2 mini shuttle buses with a total of 17 seats. The shuttle buses will commute between Golf Hotel Viborg and Aarhus University - Foulum.

Participants

- BioChain participants
- Østfold Forskning and Norwegian BioValueChain project partners.
- BioChain network

TIME	MONDAY 27TH OF OCTOBER
12:00-17:00	Lunch and Welcome Presentation of institutes represented at the workshop (one or no slide) Visit to the biogas research facility at Foulum (Henrik B. Møller) Presentation of the energy crop/residue project in the field (Jørgen E. Olesen)
19:00	Workshop dinner at Golf Hotel Viborg
TIME	TUESDAY 28TH OF OCTOBER (PRESENTATION 10 MIN., DISCUSSION 5 MIN.)
8:30-8:45	Alan Lunde, Maabjerg Energy Concept (MEC)
8:45-9:00	Jens Peter Jensen, KomTek Miljø New method to pretreat garden and household waste
9:00-9:15	Anders Peter Jensen, Xergi. Pretreatment technologies
9:15-9:30	Open
9:30-9:45	Coffee break
9:45-10:00	Nina Juul: Optimising the Biogas Value Chain: a Stochastic Programming Approach
10:00-10:15	Henrik Klinge Jacobsen: Economies of scale in biogas and organizational consequences: Common case study BioChain project
10:15-10:30	Lone Abildgård: Logistic of biogas production
10:30-10:45	Kari-Anne Lyng og Henrik Klinge Jacobsen. Comparative assessment of framework conditions for biogas production in Norway and Denmark
10:45-11:00	Coffee break
11:00-11:15	Ole Jørgen Hanssen: BioValue Chain project
11:15-11:30	Alessio Boldrin: Joint model (preliminary title)
11:30-11:45	Jin Mi Triolo: Potential errors in the quantitative evaluation of dry matter and methane potentials in biogas production
11:45-12:00	Ali Heidarzadeh Vazifekhoran: Effect of ensiling on energy loss and changes in composition of beet root
12:00-13:00	Lunch
13:00-13:15	Ali Heidarzadeh Vazifekhoran/Jinmi Triolo: Biogas yield from co-digestion affected by different retention times
13:15-13:30	Temesgen Fitamo: Co-digestion of Urban Organic Waste in Continuous stirred tank reactor
13:30-13:45	Jon Hovland, Mary Andersson-Glenna, Rune Bakke og Kari-Anne Lyng: Individual farm AD processes, why and how?
13:45-14:00	Pål Jahre Nilsen: Presentation of the Cambi Technology for biogas production (preliminary title)
14:00-14:15	Coffee break
14:15-14:30	Quan Van Nguyen/Khagendra Baral/Sander Bruun/Søren O. Petersen: Calculation of N ₂ O emission from digestate as affected by anaerobic digestion affected by manure/beet root mixing ratio
14:30-14:45	Khagendra Baral /Søren O. Petersen: Methane and other emissions during storage of manure and digestates
14:45-15:00	Sander Bruun/ Quan Van Nguyen: Carbon sequestration measured using isotope technology
15:00-17:00	Refreshment and network feedback



TIME	WEDNESDAY 29TH OF OCTOBER
8:30-12:00	<p>Discussions in groups that are changed after a period (outcome to be used when planning the modelling workshop/course in September 2015)</p> <p>Questions related to scaling up from lab. or desk studies</p> <p>Data for validation</p> <p>Discuss future collaboration</p> <p>Validity/effects of assumptions and conditions of model</p> <p>Discuss feedback from network</p>
12:00	Lunch

