



## **BioChain workshop 27<sup>th</sup> till 29<sup>th</sup> of October 2014**

At this workshop the intention is that the Danish researchers present the result of their research and very briefly (One – two slides) present their plans for future research activities.

The BioChain partners from DTU-M are collaborating with Norwegian partners from Østfoldforskning and S G. Sommer are involved in the Norwegian BioValueChain project coordinated by Ole Jørgen Hanssen (Østfoldforskningen). Our Norwegian partners are invited to this workshop, where they will present results and project plans.

Partners from Germany and Canada are also invited to present research which is related to the BioChain activities.

Danish companies from the biogas sectors will present biogas technologies and visions for future biogas productions.

The aim is:

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

### **BioChain workshop**

Date: Workshop Monday 27<sup>th</sup> October 12:00 – Tuesday 28<sup>th</sup> October 17:00

Biochain partner internal workshop: Wednesday 29<sup>th</sup> October

Venue: Aarhus University, Research Centre Foulum, Department of Agroecology and Environment, Blichers Allé 20, Postbox 50, 8830 Tjele

### **Participants**

BioChain participants including our international partners,

Østfold forskning and Norwegian BioValueChain project partners.

BioChain network

## Overview of program

### Monday 27<sup>th</sup> of October

12:00 – 17:00

- Lunch and Welcome
- Presentation of Danish and Norwegian institutes participating at the workshop (One or no powerpoint)
- Visiting the biogas research facility at Foulum (Henrik B. Møller)
- Presentation of the energy crop/residue project in the field (Jørgen E. Olesen)
- 17:00-18:00; Coffee/Refreshment and networking (Standing)

19:00 Dinner

### Tuesday 28<sup>th</sup> of October

8:30 – 10:30

- Alan Lunde, Maabjerg Energy Concept (MEC)
- Annemarie Gotfredsen, Fredericia Spildevand A/S
- KomTek Miljø (New method to pretreat , garden and household waste)
- Anders Peter Jensen, Xergi (Pretreatment technologies)
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10:30 – 10:45 Coffee break

10:45 – 12:00

- Nina Juul: Mathematical operation research
- Henrik Klinge Jacobsen: Economy of biogas production.
- Lone Abildgård: Logistic of biogas production
- Kari-Anne Lyng: Present joint article about (Title of presentation)
- Ole Jørgen Hanssen: BioValue Chain project (Norwegian project)

12:00 – 12:45 Lunch

12:45 – 14:30

- Alessio Boldrin: Teme. Joint model
- Jinmi Triolo Crop and crop residue – effect of storage and ensiling on BMP and digestability
- Ali Heidarzadeh Vazifekhoran: Effect of ensiling on energy loss and changes in composition of beet root
- Ali Heidarzadeh Vazifekhoran/Jinmi Triolo: Biogas production as affected by manure/beet root mixing ratio
- Temesgen Fitamo: Present results?

14:30 – 14:45 Coffee break

14:45 – 16:00

- Quan Van Nguyen, /Sander Bruun/Søren O. Petersen: Calculation of N<sub>2</sub>O emission from digestate as affected by anaerobic digestion affected by manure/beet root mixing ratio
- Khagendra Baral /Søren O. Petersen: Methane emission from store of manure and digestate
- Sander Bruun/ Quan Van Nguyen,: Carbon sequestration measured using isotope technology
- BioValueChain
- BioValueChain

16:00-17:00

- Refreshment
- Network feed back

### **Wednesday 29th of October**

8:30 – 12:00 (Internal Biochain meeting)

Sit in groups that are changed after a period (Outcome of the discussions will be used when planning the modelling workshop/course in 2015, September)

- Questions related to scaling up from lab. or desk studies
- Data for validation (Sven will contact Bodil Harder from Biogas Taskforce)
- Discuss future collaboration.
- Validity/effects of assumptions and conditions in model
- Discuss feedback from network

## Participant list

<b>Name</b>	<b>E-mail address</b>	<b>Telephone/address</b>
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