

Minutes from CEESA Seminar – June 2008

Date: 2-4 June 2008
Place: Gl. Avernæs, Fyn

Participants

Harry Lahrmann, AAU (2-3 June)
Henrik Lund, AAU
Frede Hvelplund, AAU
Poul Alberg Østergaard, AAU
Per Christensen, AAU
Brian Vad Mathiesen, AAU
Georges Salgi, AAU
Béla Munkácsy, AAU
Mette Reiche Sørensen, AAU
Jayakrishnan R. Pillai, AAU
Mads Pagh Nielsen, AAU (3-4 June)
Birgitte Bak-Jensen, AAU (3 June)
Marie Münster, AAU/DTU-Risø
Thomas Astrup, DTU (3-4 June)
Kai Heussen, DTU
Morten Lind, DTU
Henrik Wenzel, SDU
Niclas Scott Bentsen, KU-life (3-4 June)
Claus Felby, KU-life (3-4 June)
Jesper Munksgaard, Econ Pöyry
Peter Karnøe, CBS (3-4 June)
Christoffer Christensen, DONG Energy
Niels I. Meyer, DTU
Thomas B. Johansson, Lund University
Mark Barrett, University College London
Wolfram Krewitt, German Aerospace Centre

Prior to the meeting, the following documents were sent to the Consortium:

1. Programme
2. Project description
3. Minutes from last CEESA seminar, August 2007
4. CEESA milestones
5. WP1: Status of the scenario framework
6. WP1: Global and regional biomass resources (Niclas Scott Bentsen)
7. WP2: Status of WP2, including appendices
8. WP4: Status of WP4

These documents can be downloaded from <http://www.ceesa.dk/intranet/index.php>

Wednesday 4 June: Time schedule, future work and discussions

Inputs from International Advisory Panel

The International Advisory Panel presented its suggestions for the project:

1. Make a specific and precise definition of policy objectives.
2. Make sure to create an overall picture of coherence and a balance between supply and demand. Can we have an island of Denmark?
3. Make detailed demand analysis, including both technical and social aspects.
4. Make detailed transport analysis, considering vehicle choice, speed, mode, etc. Look carefully at ships and aircraft.
5. In terms of biomass, make a better definition of waste and energy crop potentials.

Thomas B. Johansson added the following:

- Define a broader goal of the project – 100% Renewable Energy (RE) is too complete. RE should be seen as an instrument to achieve an objective. It is not enough to say that we want 100% RE.
- Figures are needed in relation to biomass in order to show trade-offs and consequences of decisions made.
- Start with a low-demand scenario. How much RE is possible?
- The linkages between scenarios and policy packages are important.

Wolfram Krewitt added the following:

- Go into technical details and discuss methodology and models.
- Improve the efficiency side, so the project does not become too supply-oriented.
- Make sure to include an innovative aspect in terms of modelling of future RE power systems. Denmark is a world leader in RE.
- Include decentralised integration into the European electricity market.

Niels I. Meyer added the following:

- Look more into the demand side.
- Biomass constitutes a special problem. We have to solve the disagreement and define our basis. Should biomass be used mainly for transport?
- Coordinate the inputs from the different WPs in a first draft report already this year.

Conclusion:

On the basis of Niels I. Meyer's suggestion, it was decided to do a first draft of the final report before next year's meeting. The report should include preliminary results and should define where we are now and thus create an overview of the project. It should also serve to clarify the expectations of each WP and improve the communication between the WPs.

WP leaders and others who wish to participate will attend a two-day seminar in the autumn of 2008 and make a draft abstract from each WP. At the meeting, the WP leaders may also discuss if we should define other parameters than 100% RE.

Work programme of each WP

WP2

Before the next meeting, WP2 will fulfil the following tasks:

- Slides from WP2 – missing

Comment from Thomas B. Johansson: Remember to include demand side in technology improvements

Mark Barrett suggested that a series of other aspects should be included in transport. See the slides and papers by Mark Barrett on <http://www.ceesa.dk/intranet/index.php>.

WP3

Due to the recent employment of PhD fellows, WP3 is still in its introductory phase. Before the next meeting, WP3 will fulfil the following tasks:

- Slides from WP3 – missing

WP4

This autumn, WP4 will present a paper which describes the approach to public regulation, including:

1. The process of innovation and integration of new technology
2. A definition of the regulation tools needed to re-arrange market rules, subsidies and standards.

WP4 will also present a paper considering:

1. How to integrate more wind?
2. Concrete suggestions on how to maintain a good regulation system with CHP plants, heat pumps, heat storage, etc.

WP4 will also present concrete suggestions on how to include public transport and electricity in transport; how to introduce biomass and how to reduce the demand.

WP4 will have a series of meetings this autumn in order to prepare these reports for discussion prior to the next meeting.

WP4 will intend to present a catalogue defining measures to promote RE at the next CEESA meeting. A selection of measures will take place.

Henrik Lund suggested that WP4 should present:

1. A suggestion on how to stabilise transport demand.
2. The differences between the three scenarios already defined in terms of regulation.

Mark Barrett suggested that we should look at possible rates of change and the social capacity for implementing change; how fast can this be implemented?

Mark Barrett also suggested the integration of international aspects, such as technology standards; how far can we push those? Focus on the harmonisation of regulation and tax.

Slides from WP4 - missing

WP5

WP4 suggested that an additional scenario should be included to define residual biomass resources and discuss efficiency improvements.

Henrik Lund emphasised the importance of maintaining the interaction between the WPs. WP5 should thus conduct LCA of the scenarios already defined.

WP5 will contact the other WPs for inputs to the LCA.

Slides from WP5 – missing

Conclusion:

Henrik Lund concluded that we should move forward with the analysis in the WPs in order to present more precise results at the next meeting.

The three scenarios defined may not be the final ones. However, we should use these scenarios as a framework for the analysis. No WP should wait for the input from other WPs! The framework has already been defined.

Next seminar

The next CEESA seminar was scheduled for 2-4 June 2009. Niclas will find a suitable location and pass on this information to Mette.

Mette Reiche Sørensen
21.07.2008