

Minutes of meeting, CEESA Consortium meeting, 7-9 June 2010

Participants:

Birgitte Bak-Jensen, Jayakrishnan Pillai, Lorie Hamelin, Henrik Lund, Peter Karnøe, Brian Vad Mathiesen, Kai Heussen, Thomas Astrup, Davide Tonini, Poul Østergaard, Erik Schaltz, Poul Erik Morthorst, Frede Hvelplund, Niels I. Meyer, Carsten Chachah, Claus Felby, Henrik Wenzel, Kirsten Sophie Hasberg, Lise-Lotte Pade, Mads Pagh Nielsen, Mark Barrett, Thomas B. Johansson, Niclas Scott Bentsen, Jacob Daniel Møller, Kenneth Hansen.

Note taker: Pernille Sylvest Andersen

June 7

Presentation of first draft for final CEESA report (Henrik Lund)

Draft is framework for our discussions. Presentations should be linked to the report regarding inclusions and alterations.

Collaboration/dissemination with VE-Net could be emphasized within the next year (collaboration is mentioned in the project application but has faded out)

Distinguish between tools and models

Adam/Emma model has not been used but economic forecasts are from Adam so it is used implicitly

Brian Vad Mathiesen: the model has been used and its use has been presented

We should be specific on whether tools have been developed from scratch or if we have only improved on existing ones

Birgitte Bak-Jensen: Include project N.. (on Northern Jutland)

Niels Meyer: Include CEEH and Rebecca

Henrik Lund: Yes, include that and mention Rebecca

Henrik Lund: Please give input on analysis on combining LCA and ESA (energy system analysis) adding environmental consequences of investments

General comments on draft

Poul Erik Morthorst: we need to stress how we have contributed – what differs this project from others

Claus Felby: This should be a scientific plan, not a political plan which makes it different

Poul Erik Morthorst: This should be emphasised

Comments from the advisory panel

Niels Meyer: Add other policy means than public regulation

Niels Meyer presentation

- Looking at CEESA challenges from 2009 and compare them with the present situation
- → many questions still need clarification, issues that should be fulfilled by autumn 2009 have not yet been fulfilled
- Danish competitors to CEESA: IDA, NOAH, think tank Concito, Danish government commission, new Danish governmental plan by December 2010 – should be considered in our strategy
- CEESA final challenges: what are the special contributions of this project? Detailed computer documentation incl. LCA, detailed policy means for the different sectors, proposed changes in institutions and economic priorities
- Weaknesses: complicated decision about framework: import/export of energy international trade, emphasis on local systems or large transmission systems
- Further comments/discussion at the end of the meeting
- Should think about how to disseminate (our strategy)

Status of WP1

Main scenarios and reducing the biomass demand (Brian Vad Mathiesen)

New waste handling system – the purpose is to have sensitivity analysis whether to do one thing or the other

New electricity consumption in industry

Balmoral and EnergyPLAN – a comparison (Lise-Lotte Pade)

No results yet – strange results, when trying to improve, the model broke down

Poul Erik Morthorst: Balmorel can include international trade which Energyplan does not

Status of WP4

Standard for appliances - Improve standards of EU

Birgitte Bak-Jensen: Electricity consumption in conflict with quota slide

Poul Erik Morthorst: Maybe there should be dynamic tariffs

More should be done within industry taxes

Discussion on whether road taxes 'punish' people living in the countryside or whether the taxes are a means to change people's behavior

- Brian Vad Mathiesen: You should make a case study based on policy means' impact on different kinds of people (job and financial situation)
- Frede Hvelplund: Work places should be moved to the people on the countryside instead of the other way round
- Niels Meyer: And better public transport
- Birgitte Bak-Jensen: Driving electrical cars does not change the situation

Brian Vad Mathiesen: Clarify in the report the extent of marginal price – we want people to insulate their houses with the best materials

Thomas B. Johansson: Add to policy proposals: new construction (and that they should be passive houses)

Henrik Lund: The report should emphasise the use of district heating or heat pumps – not biomass resources as they are scarce

Niels Meyer: NOAH suggests it should be regulated by law

Niclas Scott Bentsen: Passive houses and district heating do not mix

Poul Erik Morthorst: This needs to be solved

Claus Felby: Transmission loss would be too big

Henrik Lund: Deadline for oil boilers e.g. 10 years

Poul Erik Morthorst: Already implemented

Status of WP3

Dynamic load flow analyses (Jayakrishnan Pillai)

Mark Barrett: Have you considered user demand and reliability?

Jayakrishnan Pillai: No, results only based on battery capacity

Discussion on reserve needs

Mark Barrett: Consider multiplication with millions of batteries, however cannot be multiplied directly (e.g. if having a thousand cars you cannot just multiply by a thousand)

June 8

Status of WP2

Residual biomass potentials (Niclas Scott Bentsen)

Potential = 0 (there is no residual biomass potential) → only biomass potential

Suggestion: Final scenario could be a mix of organic and conventional farming

Transport technologies and modeling (Erik Schaltz)

Henrik Wenzel: Driving modes in relation to efficiency – what kind of driving is best?

Peter Karnøe: Could be implemented within the electric car (on a screen) so the driver could see it.

Status of WP3 (continued)

Future power system operation reserves (Kai Heussen)

Would like input on what will be included in the report – presents study plan

Henrik Lund: Send drafts to me to decide what should be included in the CEESA report

Status of WP5

Energy scenario modeling (Davide Tonini)

Thomas Astrup: Definition of biomass source?

Brian Vad Mathiesen: Different scenarios with different biomasses – no clear definition

Land-use related impacts (Lorie Hamelin)

Claus Felby: Land in the Amazon is cheap so deforestation will keep happening here

Henrik Wenzel: The present situation should not be used for this reference

Thomas B. Johansson: Biomass should not be produced by land use change

Two papers and joint paper with Davide will be finished before CEESA report deadline

- Methodology will not be completed until mid-2011

Henrik Wenzel: Lorie raised question: Should energy crops be used to boost manure biogas?

Claus Felby: Nice with overview on how much is needed – what are the best technologies at hand?

Henrik Lund: Could be very interesting to look into

Frede Hvelplund: Could be discussed more this afternoon

Presentation on action plan for rural areas (Jacob Daniel Møller and Kenneth Hansen)

Presentation on climate change (Thomas B. Johansson)

Presents Global emission pathways in compliance with a 2 degree guardrail

Niels Meyer: We have to take into account that things have changed since we made the CEESA application five years ago, so we should not be afraid to take things further

Peter Karnøe: The perspective could be integrated into the policy means

Henrik Lund: Group work in work packages which will be followed by common discussion

Presentation by Advisory Panel

Thomas B. Johansson:

A lot of progress but difficult to define where you stand. This is the most important period of the project.

Internal questions: Objective: coherence - what are we trying to solve? Local economic needs drive concerns in renewables. Multiple benefits from investments.

Societal aims of the project a selling point – now is the time for action. Denmark can show that these things can happen – big respect for Denmark in this area

Limited time horizon = transition solutions do not include a big enough time frame

Questions:

- Project is stated to be a scientific plan: What is a scientific plan? Plan to reach societal objectives = normative plan. Depends on aims.
- Reserves with power systems, reliability – is there a defined possibility that the system will work?

Air travel and diets (GHG) – encouraging that you look at these things

Electric vehicles do not necessarily matter unless other factors are included – opportunity to do things that matter differently

How to make things happen – to look at how things can be improved is needed all over the world

Mark Barrett:

Much progress, some original work

Niels Meyer:

Comments prove the importance of close cooperation between groups

Frede Hvelplund: The speeding down of the economy must mean a lot in this perspective

Mark Barrett: Yes

Frede Hvelplund: Could we discuss the capacity element?

Thomas B. Johansson: Absence of how and why to make e.g. Plus houses – absence of the rightly educated people

Niels Meyer: Good point, we need people with the right knowledge

Thomas B. Johansson: I saw a passive house fair – many details of the houses, and we need people to do these things

Kai Heussen: I have been to fairs as well – very few people to these, so not a big focus on the details, not much interest. If there is no interest, there must be a lack.

Niclas Bentsen: Without a demand, how to create the interest?

Thomas B. Johansson: We are seeing a change coming; we have the same problem in Sweden.

Mark Barrett: The demand for refurbishing will be increasing rapidly in the UK to meet targets. There are not enough people (social capacity) to do this, as they need to train a lot to meet the coming demand.

Thomas B. Johansson: Refurbishing should be done when things need to be done in the house anyway.

Birgitte Bak-Jensen: What should make people do it?

Mark Barrett: Difficult to say, should it be on an individual basis or on a neighbourhood basis?

Brian Vad Mathiesen: In Middelfart they have different craftsmen coming together which makes it cheaper. Can be offered to many buildings so the municipality can help when a local person initiates things.

Presentation Kai Heussen

Developed a game in student group on energy planning using Lego (because discussions need a framework in order to create development). The game takes 2-4 hours to complete. A link to the game will be put on the CEESA website.