



Updated 18/03/2019

**Joint Workshop: Working Groups (WG) 2 and 3 on Environmental and Cost-effectiveness
Approaches of Payments to Forest for water Services,**

20-22 March 2019, Odense

Cost action PESFOR-W

Meeting room "Nielsen" in Kulturmaskinen

Farvergården 7, 5000 Odense C, Danmark

Local organisers: Mette Termansen, IFRO, University of Copenhagen



Wednesday 20 March

12:00 – 13:00 Arrival and registration (possibility to buying lunch in the cafes/restaurants close to the meeting venue)

13:00-13h10: Welcome & logistics (J. Abildtrup)

13:10 – 14:00 Introduction to PESFOR-W and the expected workshop outcomes, including a reminder of the main elements of the Cost-Effectiveness Analyses (CEA) and the data needed for testing the proposed framework (G. Valatin)

14:00-15:00: Groundwater protection and drinking water supply in Odense with focus on the experiences with afforestation projects (Project manager Troels Kærgaard Bjerre, Vandcenter Syd A/S). Presentation and discussion

15:00-15:15: coffee break

15:15- 16:15: Payment for groundwater protection: the land owner perspective (Director Allan Bechsgaard , Hedeselskabet) . Presentation and discussion

16:15-18:00: With the Odense case as starting point identifying and discussing (all participants/ facilitator T. Nisbet/J. Abildtrup):

- 1) Cost elements (project planning costs, opportunity costs, planting and management costs net of future revenue from timber/forest sales value, etc.)?
- 2) What are the water quality indicators considered (pesticide concentrations, risk assessments, etc.)?
- 3) Alternative protection measures (grassland, move intakes to other locations if polluted, purification etc.) and their costs?
- 4) The characteristic of the PES contracts: the incentives, governance: what have been learned?
- 5) Co-benefits/externalities in addition to water quality improvement– which and have they been considered?



Thursday 21 March

09:00-12:00: Field trip to Elmelund afforestation project and Brylle Vandskov. Departure 9:00 at Odense Theater (Jernbanegade 21, 5000 Odense)

12:00-13:30: lunch

13:30-14:30: Afforestation on agricultural land: impact on nitrate leaching – empirical results (Professor Per Gundersen, Copenhagen University)

14:30- 15:30 Groundwater protection and drinking water supply in Aalborg: Reducing nitrate concentration and the role of forest and grassland (Pernille Stampe Jakobsen, Aalborg Forsyning)

15:30-15:45: coffee break

15:45-16:45: How to account for time and risk/uncertainty in evaluating cost-effectiveness?

- What do we know about the time profile of the impact on nitrate leaching? (P. Gundersen)
- The distribution of cost over time and what are the economic risk factors (using case studies as starting point for discussion)

16h45-18h00: With the Drastrup case/Aalborg current water protection activity as starting points, identification and discussion of (all participants/ facilitators: T. Nisbet/ J. Abildtrup/M. Termansen):

- 1) cost elements (project planning costs, opportunity costs, planting and management costs net of future revenue from forest/sales value of forest, etc.) ,
- 2) what are the water quality indicators considered (nitrate concentrations, risk assessments, etc.),
- 3) alternative protection measures (grassland, move intakes to other locations if polluted, purification etc.) and their costs
- 4) the characteristic of the PES contracts: the incentives, governance: what have been learned?
- 5) Co-benefits/externalities in addition to water quality improvement– what are they and have they been considered?



Friday 22 March

09:00-10:30: Continued discussion of Drastrup case/Aalborg current water protection activity (all participants/ facilitators: T. Nisbet / J. Abildtrup / M. Termansen)

10:30-10:45: coffee break

10:45-11:15: Current policy issues related drinking water protection and afforestation in Denmark: The state forest perspective (Andreas Bjerre Scheffel, Danish Nature Agency)

11:15-12:00: Discussion of PES and governance: comparing the different approaches applied in Denmark. Their characterisation/classification with respect to the PES literature? How have stakeholders been involved in the afforestation projects? Lessons learned (facilitator: J. Abildtrup/ M.-B. Andreucci)

12:00-13:00: Lunch

13:00-15:00 Writing workshop (facilitator C. Petucco):

- Summarizing the lessons learned from the Danish case studies.
 - o What are the data available and what is lacking?
 - o Can lacking data be obtained?
- Is our approach for cost effectiveness analyses appropriate for the Danish case?
- Preliminary cost effectiveness analyses

15:00-15:15: coffee break

15:15-16:00: Writing workshop continued

16:00 -17:30: Next steps and who does what?