

Real-world emissions from residential wood combustion

Copenhagen seminar 3 December 2015, Campus of University Aalborg Copenhagen
A.C. Meyers Vænge 15, 2450 Copenhagen SV

About the seminar:

The seminar focuses on the challenges in determining and minimizing real-world pollutant emissions from residential wood combustion, keeping in mind that test bench results cannot simply be considered representative of actual emissions.

The seminar is intended as a catalyst for idea development and possibly later project development among the participants. The seminar should stimulate networking. Participants are encouraged to contribute to discussions. Participation in the seminar takes place by invitation.

The seminar is organized by Ole Michael Jensen and Ricardo de Carvalho, Aalborg University, and Helge Rørdam Olesen, Department of Environmental Science, Aarhus University with support from DCE – Danish Centre for Environment and Energy at Aarhus University.

9:15 **Coffee**

9:30 **Welcome. Presentation of participants**

9:40 **Introduction: Challenges in going from test bench results to emissions in the real world**
Helge Rørdam Olesen, DCE - Danish Centre for Environment and Energy at Aarhus University

10:00 **Residential wood combustion – Influencing factors of real life behaviour**
Hans Hartmann, Technology and Support Centre of Renewable Raw Materials, Germany

10:50 **Coffee break**

11:20 **Wood-burning stoves in buildings worldwide. The global challenge and development of local measures that can help to reduce real-world emissions**
Ricardo de Carvalho, SBI/Aalborg University, Energy and Environment

11:50 **Quantification of hazardous emissions from residential solid fuel burning appliances**
Morten Seljeskog, SINTEF, Norway

12:30 **Lunch break**

13:10 **Mapping emissions from residential wood combustion in Denmark**
Marlene Plejdrup, DCE - Danish Centre for Environment and Energy at Aarhus University

13:30 **Quantifying residential wood combustion through measurements in ambient air**
Jacob Klenø Nøjgaard, DCE - Danish Centre for Environment and Energy at Aarhus University

13:50 **Emissions measurement from older owner fired wood stoves in residential houses**
Ole Schleicher, Force Technology

14:10 **Nordic wood burning stoves and the Ecodesign regulation**
Jes Sig Andersen, Technological Institute

14:30 **Coffee break**

15:00 **Potential for improvement of combustion conditions in practice**

Morten Bjørklund, chimney sweeper and BlueChimney, Fredensborg and Pauli Joensen, BlueChimney

15:20 **Intelligent Heat System - high-energy efficient wood stoves with low emissions.**

Jytte Illerup, Technical University of Denmark, Department of Chemical Engineering

15:40 **Improving user behaviour through smart technology**

Christian Skovbo, Aduro

16:00 **Discussion: Research required! Which actions can be taken?**

16:30 End of seminar