



IEA Bioenergy  
Technology Collaboration Programme

# WEBINAR SERIES

## Residential Wood Combustion - Towards Low Emission Systems

May 6, 2021

4.00 pm - 5.30 pm Central European Summer Time

3.00 pm - 4.30 pm British Summer Time

10.00 am - 11.30 am North American Eastern Daylight Time



**Moderator**  
**Morten Tony Hansen**

Senior Consultant,  
Lead of Task 32 Biomass Combustion,  
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Denmark



**Presenter**  
**Prof. Dr. Thomas Nussbaumer**

Verenum Research, Zürich,  
Lucerne University of Applied  
Sciences and Arts, Horw,  
Swiss Federal Office of Energy,  
Delegate of in IEA Bioenergy Task 32,  
Switzerland



**Presenter**  
**Morten Gottlieb Warming-Jespersen**

Head of Section,  
Energy and Climate,  
Danish Technological Institute,  
Denmark



**Presenter**  
**Dr. Gabriel Reichert**

Senior Researcher,  
Emission, Technology and Research &  
Direct Heating Systems,  
Bioenergy and Sustainable Technologies,  
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## Introduction

Wood combustion plays a large role for residential heating in many countries. However, inadequate knowledge, poor design of appliances, unrealistic test methods and poor operation of wood stoves lead to undesired and harmful consequences for air quality in many residential areas.

IEA Bioenergy Task 32 works to gather and disseminate essential knowledge on how to reduce emissions from small scale wood combustion while maintaining the benefits of heating homes with local renewable resources. The webinar will present the most recent findings from ongoing work within Task 32 on design guidelines for wood stoves and real-life test methods. The full reports will be published in the coming month.

The webinar will consist of the following presentations followed by a common Q&A session

- Introduction to biomass combustion and pollutant reduction in wood stoves and boilers, by Prof. Dr. Thomas Nussbaumer
- Technical guidelines for design of low emission stoves, by Morten Gottlieb Warming-Jespersen
- Real life test methods for log wood stoves and pellet stoves, by Dr. Gabriel Reichert

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