

BIOMASS AND AIR QUALITY

Small-scale biomass combustion in the domestic sector: state of the art, results of recent research projects and future challenges

Currently residential wood combustion is increasing in Europe because of rising fossil fuel prices but also due to climate change mitigation policies. However, especially in small-scale applications, residential wood combustion may cause high emissions of particulate matter (PM) and other pollutants. The aim of the seminar is to describe the state of the art of residential biomass heating systems performances and to evaluate possible policy and technology improvements through LEAP and Bioenergy 2020+ experiences. The overall purpose is to reduce the potential quality air impacts from small-scale biomass combustion.

LEAP (Energy & Environment Laboratory Piacenza) is a specialized laboratory in the field of highly efficient, low environmental impact energy technology. Activities include applied research, testing, development and technology transfer. The Laboratory is participated by Politecnico di Milano and forms part of the Emilia Romagna High Technology Network.

Bioenergy 2020+ is an Austrian research centre whose activities cover all relevant technologies for the efficient and environmentally friendly provision of fuels, heat and power from biomass. The centre also researches options for the industrial and non-energy use of biomass.

Seminar Programme:

14.00 Reception & Participants Registration

14.30 Welcoming Addresses & Introduction

Stefano Consonni – Politecnico di Milano, LEAP President

14.45 LEAP Laboratory, projects & experimental activities

Stefano Signorini – LEAP

15.00 ToBiCUP Project, evidence from stack-sampled and airborne UFPs

Senem Ozgen – DICA-Politecnico di Milano, LEAP

15.30 Bioenergy 2020+, state of the art of residential application and innovative products

Manuel Schwabl – Bioenergy 2020+

16.15 Emissions monitoring, flue gas cleaning and future challenges for the biomass sector

Elisa Carlon – Bioenergy 2020+

17.00 Final considerations

Stefano Cernuschi – DICA-Politecnico di Milano, LEAP

17.15 Discussion & Seminar Closing

Tuesday October 10th, 2017, 14:00-17:30

Politecnico di Milano – Piacenza Campus - Via Scalabrini, 76, Piacenza – Room R

Free entrance, registration required: info.leap@polimi.it

For more details about the seminar: phone: 0523-356821; 0523-356879 – internet: <http://www.leap.polimi.it>



TECNOPOLO PIACENZA

