

Second International Conference on Biomass and Waste Combustion

Progress beyond state-of-the-art
– next generation technologies for retrofit and new combustion plants



16-17 February 2010
Holmenkollen Park Hotel Rica, Oslo, Norway

The conference will focus mainly on the technical aspects of biomass and waste combustion and the main goal is to present technological innovations that will be commercialised in the near future. Important topics are increased electrical efficiency, corrosion and fouling control, reduced emissions and reduced operation costs.

NextGenBioWaste is a project packed with new innovative technology for the next generation of biomass and waste combustion plants. Full-scale demonstrations have been carried out supported by research activities, a cooperation between 17 European partners. As the project is running to its end, activities and results will be presented and discussed. Learn from leading bioenergy experts, hear the experiences of full scale demonstrations of new innovative technology.

Conference venue

The Conference will be held at the Holmenkollen Park Hotel Rica, Oslo, Norway. The hotel is located in the surrounding hills of Oslo and allows fabulous views over the city centre and the Oslo Fjord. Parts of the hotel date back to 1894 and the "National romantics" period. A rich cultural inheritance is blended with all the "mod con" facilities of a first class hotel.

Oslo as a winter destination is traditionally associated with ski jumping in Holmenkollen. In less than 20 minutes from the busy city streets you arrive in un-touched nature. Oslo city offers inhabitants and visitors over 2000 kilometres prepared cross-country ski trails which brings you deep into the peaceful forests. Some of the tracks start at Holmenkollen, an illuminated ski track runs from the hotel and skis can easily be arranged. There's no other capital in the whole world that can offer nature this close to a cultural hub.

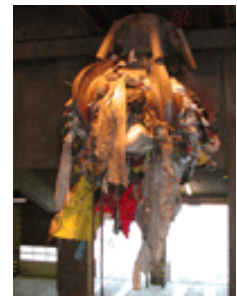
Who will attend

With its focus on near commercial technical innovations within biomass and waste combustion, the Conference will be relevant for industry as well as research institutes and universities.

Further information

Registration form including hotel information and up to date details can be found on the conference website.

The conference is organised by SINTEF within the NextGenBioWaste project. The NextGenBioWaste project is co-funded by the European Commission under the Sixth Framework Programme.



Sponsors:

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Conference Programme

Tuesday 16 February

- 08.00** Registration
- 09.00** **Opening session - Chairman: Sverre Aam, SINTEF**
Welcome and introduction Sverre Aam, SINTEF
EC views on bioenergy Jean-Pierre Schosger, European Commission
NextGenBioWaste - Towards a successful completion Lars Sørum, NextGenBioWaste Coordinator
- 10.30 Coffee break
- 11.00** **Keynote session - Chairman: Lars Sørum, SINTEF**
Overview of legislative changes in the European Union that influence the future design and performance of WtE plants Ella Stengler, CEWEP
Biomass in relation to 2020 Hans Nordström, Vattenfall
Energy from waste - Everywhere? Alfred Sigg, von Roll Inova
R1 as efficiency indicator of WtE plants - Status quo and optimization potential Dieter O. Reimann, CEWEP
- 13.00 Lunch
- 14.00** **Corrosion & Fouling - Chairman: Ragnar Warnecke, GKS**
Boiler tubes with PPW overlay for higher steam temperature and efficiency in waste to energy plants Oya Koji, Daido Steel Co. Ltd
High temperature corrosion of candidate materials for industrial boilers in biomass combustion and co-combustion environment Jiri Krejčík, SVUM
Standard of cladding process in the biomass and waste combustion Arne Manzke, Uhlig Rohrbogen
Contribution to the analysis of the corrosion process of modified 9%Cr-steels and iron aluminides under simulated incineration conditions Markus Schmitt, Max Planck Institute für Eisenforschung GmbH
- 15.20 Coffee break
- 15.50** **Corrosion & Fouling - Chairman: Jean Pierre Schosger, JRC**
Corrosion reduction in waste- and demolition wood fired boilers by means of additives: An extraordinarily corrosive case Anders Hjörnhede, Vattenfall Power Consultant AB
Assessment of low temperature corrosion on a waste fired boiler Kenneth Villani, Keppel Seghers Belgium
Decreased corrosion at high temperature? Annika Stålenheim, Vattenfall R&D
Numerical simulations of particle deposition on superheaters Nils Erland Haugen, SINTEF
Process optimisation with the aid of on-line corrosion monitoring Martin de Jong, KEMA
- 17.30 Closing
- 18.00** **Social programme**
- 20.00** **Conference dinner**

Wednesday 17 February

- 08.30** **High efficient WtE plants /Boiler optimisation - Chairman: Robert van Kessel, KEMA**
Boiler Optimization: Reconstruction of three boilers at AVR Hadeel Abdul Aziz, AVR-Afvalsverwerking B.V.
High efficiency waste incineration concept at AEB's plant in Amsterdam Harmen Veldman, Afval Energie Bedrijf, Amsterdam
A full-scale demonstration of a new advanced control system for improved economy and ecology Ragnar Warnecke, GKS-Gemeinschaftskraftwerk Schweinfurt GmbH
Optimisation of combustion process at reduced oxygen in EVI Europark Wte-plant Eloi van der Meer & Maarten Stultiens, Visser & Smit Hanab
- 09.50 Coffee break
- 10.10** **Biomass Combustion - Chairman: Frans Lamers, KEMA**
BFB furnace bottom retrofit for 100% waste wood firing - demo in Nyköping CHP Christer Forsberg, Vattenfall Nordic Heat
The long-term effects of different biomass qualities in a grate boiler Morten Fossum, Trondheim Energi
Renewable solid fuels replacing electricity and oil in an existing thermal energy market Arild Dahlberg, Hafslund Fjernvarme AS
- 11.30 Lunch
- 12.45** **Fuelbed, ash & emissions - Chairman: Peter Paul van't Veen, TNO**
Monitoring the combustion process directly on the grate of Municipal Solid Waste incinerators Jean-Pierre Schosger, Joint Research Centre of the EC
Detailed models for ignition and combustion of waste Maarten van Blijderveen, TNO
High-dust selective catalytic reduction (SCR) of NOx give improved electrical efficiency and environmental performance at A2A's WtE plant in Brescia, Italy Lorenzo Zaniboni, A2A
Developments in the management of solid waste incineration ashes Frans Lamers, KEMA
- 14.15** **Closing remarks** Lars Sørum, NextGenBioWaste Coordinator
- 15.00** **Buses to airport**