



## **Ash miniseminar/workshop - Industrial challenges & R&D opportunities in Norway**

When? **Tuesday 27<sup>th</sup> May 2014 (0930-1730)**

Where? Radisson Blu hotel (100 m. from the Terminal), **Værnes (Trondheim airport)**

What? This free CenBio-sponsored ([www.cenbio.no](http://www.cenbio.no)) miniseminar/workshop is for experience and knowledge sharing between Norwegian industry and R&D on the topic of **ash**. For the first time in years, the Norwegian "**biomass and waste ash** community" is to be gathered. This meeting is not a conference to present a lot of R&D results but a first platform for networking and discussions about the relevant **ash** topics to address today as well as a springboard for future cooperation and coordinated actions. It is an opportunity to meet important **ash** actors and players in Norway!

Language: Norwegian or English (free choice)

Registration (and inquiries) to: [michael.becidan@sintef.no](mailto:michael.becidan@sintef.no) **no later than Monday 7<sup>th</sup> April**

### **Draft agenda (not including coffee breaks and lunch) for 0930-1730**

1. **Welcome and Introduction** (Michael Becidan, senior research scientist, SINTEF Energy Research): the ash challenges in Norway
2. **An international perspective on ash R&D** (NFLI): Varmeforsk askeprogrammet (Sweden)
3. **R&D** (by all (invited and) present R&D institutions): activities and competence in Norway
4. **Ash workshop** – 2 parallel sessions: biomass & waste
  - a. Each industry partner can say a few words about its challenges and interests/needs
  - b. Discussions led by SINTEF Energi (waste) and NFLI (bio). See Themes below

### **Themes for the workshop (indicative)**

The situation today: what is not satisfactory? What could be improved? What are the main obstacles/challenges?

Industrial needs/goals/strategies (long term/short term)?

Possible actions for tomorrow: what do you expect from (1) the authorities; (2) R&D: what are the areas for research that need to be focused on? How can the R&D activities meet the industry needs?

Technical axes: (1) feedstock ash characterisation; (2) ash behaviour during thermal conversion (corrosion, slagging, fouling) and solutions; (3) innovative recycling/uses (metal extraction, road building, stabilisation, agriculture, etc.)

Key aspects to consider/evaluate (not exhaustive): economy/profitability/viability, environment and health/toxicity, climate, energy production, etc.