

Safe Wood Pellet Storage

Preventing, Detecting, and Managing Self-Heating Incidents

September 2-3, 2025

Location: Ørsted, Nesa alle 1, 2820 Gentofte, Denmark

Note: the tour and workshop will be in English.

September 2, 2025

Afternoon Tour of Ørsted Biomass Carbon Capture and Storage Project: Asnæs Power Plant

Ørsted will lead the group on a tour of the Asnæs Power Plant Biomass Carbon Capture and Storage (BECCS) project.

- 12:00 – 14:00 Pick at hub(s) in central Copenhagen TBN and travel to Asnæs Power Plant
- 14:00 – 14:30 Arrival at Asnæs Power Plant & Safety Briefing
- 14:30 – 14:45 Short intro of Asnaes Power Plant
- 14:45 – 15:15 Short intro Ørsted BECCS projects incl. coffee break
- 15:15 – 16:00 Guided tour at Asnaes Biomass CHP, unit 6
- 16:00 – 16:45 Bus trip at the BECCS site
- 16:45 – 18:00 Return to Copenhagen in busses
- 18:00 Arrival at pick up HUBs in Copenhagen

Note: the meeting time and place for the tour will be shared once the schedule is finalized.

September 3, 2025

8:30 – 9:00 Registration, Networking, Pastries, Coffee

9:00 – 9:15 Opening Remarks

Speakers: Søren Alsing, Director, Fuel, Commercial, Ørsted; William Strauss, President, FutureMetrics; Fahimeh Yazdan Panah, Director of Research and Technical Development, Wood Pellet Association of Canada

9:15 – 10:45 Case Studies on Major Incidents that Resulted from Runaway Self-Heating – Consequences and Lessons Learned

Speakers: Jens Kai Holm, Chief Specialist, Ørsted, John Swaan, FutureMetrics

Learn about real-world case studies of major incidents caused by runaway self-heating from around the world. You'll discover the consequences of each incident, along with the mitigation strategies and best practices derived from these experiences.

10:45 – 11:00 Coffee Break

- 11:00 – 12:15 **Technical Deep Dive: Causes, Contributing Factors, and Detection Methods for Self-Heating**
Speaker: Fahimeh Yazdan Panah, Director of Research and Technical Development, Wood Pellet Association of Canada
- Explore the biological and chemical mechanisms that drive spontaneous heating, as well as current laboratory and field methods used to assess self-heating potential, including isothermal calorimetry, crossing point tests, and temperature profiling. The session will distinguish between intrinsic contributors, moisture content, particle size distribution, and chemical composition and operational factors like cooling efficiency, storage practices, and transport conditions.
- 12:15 – 13:00 **Lunch**
- 13:00 – 13:45 **Minimizing Self-Heating Risk in Wood Pellet Storages**
Speaker: Jens Kai Holm, Chief Specialist, Ørsted
- Examine key strategies for mitigating self-heating risks in storage facilities, focusing on laboratory measurements of wood pellet reactivity, storage practices in wood pellet silos and flat storage, and industry best practices for large-scale storage.
- 13:45 – 14:30 **Detecting a Self-heating Incident: Early Warnings and Beyond**
Speaker: Håkan Johansson, Division Manager – Asia, Firefly
- This session will outline methods for identifying self-heating incidents, including temperature and gas measurements, spark detection, and infrared surface temperature monitoring.
- 14:30 – 14:45 **Coffee Break**
- 14:45 – 15:30 **If an Incident Happens: Effective Approaches for Mitigation and What NOT to Do!**
Speaker: John Swaan, Operations and Project Development Expert, FutureMetrics
- Learn about immediate response measures, fire suppression techniques, and mistakes to avoid in the event of an incident.
- 15:30 – 16:45 **Open Forum: Industry Collaboration for Safer Pellet Storage**
Moderator: William Strauss, President, FutureMetrics
- Join us for an interactive discussion where approved registered attendees will have the opportunity to give a five-minute presentation related to the workshop topics, followed by an open discussion.
- Submissions for speaking topics is now closed.*
- 16:45 – 17:00 **Closing Remarks**
Speakers: Søren Alsing, Director, Fuel, Commercial, Ørsted, William Strauss, President, FutureMetrics
- 19:00 **Dinner in Copenhagen hosted by Ørsted. [Location TBD]**
- Note: Transportation to the dinner venue is the responsibility of each attendee.*