



FutureMetrics™ LLC
The Leading Consultancy in the Wood Pellet Sector



Safe Wood Pellet Storage

Preventing, Detecting, and Managing Self-Heating Incidents

March 12, 2026

Note: the workshop will be in English and Japanese.

Location: TKP Garden City Premium Shinagawa Takanawa Exit, Keikyu Daiichi Building, 4-10-18 Takanawa, Minato-ku, Tokyo 108-0074, Hall 4A

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

9:30 – 9:45 Opening Remarks

9:45 – 11:45 Case Studies on Major Incidents that Resulted from Runaway Self-Heating – Consequences and Lessons Learned

Speakers: Jens Kai Holm, Chief Specialist, Ørsted, John Swaan, Operations and Project Development Expert, 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.

11:45 – 12:30 Lunch

12:30 – 13:30 Technical Deep Dive: Causes, Contributing Factors, and Detection Methods for Self-Heating

Speaker: Fahimeh Yazdan Panah, Associate Executive Director, 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.

13:30 – 14:30 Detecting a Self-heating Incident: Early Warnings and Beyond

Speaker: Håkan Johansson, Division Manager – Senior Advisor, 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 – 14:50 Coffee Break

14:50 – 15:50 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.

15:50 – 16:50 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.

16:50 – 17:00 Closing Remarks

Speaker: Fahimeh Yazdan Panah, Associate Executive Director, Wood Pellet Association of Canada