



Small Wood Fired Combustor (<3MW) Guideline Status Update

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How did we get started?

- MOECC developed an Interim Design & Review Guideline for Wood-Fired Combustors in 1990
- The guideline required an update to reflect new technology developments
- Two new guidelines were needed, one for large wood-fired combustors (≥ 3 MW) and one for small wood fired combustors (< 3 MW)
- Guideline A-13 for large wood-fired combustors was issued in January 2015
- Small wood-fired combustor guideline is in development

What work did we do?

- Research program was developed to gather information to inform the new small wood-fired combustor guideline
- Partnership between the MOECC, MNRF, Confederation College's OPG-BLRC and NRCan
- Gathered information pertaining to: i) wood fuel characteristics, ii) combustion/gasification technologies, iii) air emissions performance indicators, and iv) international best practices
- Key activities included the survey of equipment manufacturers and testing/research at OPG-BLRC
- Voted to adopt ISO biomass fuel quality standards

What else is happening?

- A rationale document is being developed to accompany the new guideline for small wood-fired combustors:
 - ✓ Market potential in Ontario
 - ✓ Overview of wood combustion science and theory
 - ✓ Wood fuel characteristics and quality standards
 - ✓ Jurisdictional review and combustion equipment standards
 - ✓ Modern small wood-fired combustor equipment design
 - ✓ Overview of air emission measurement data
 - ✓ Air emission compliance assessment options
- Technical Bulletin on Continuous Monitoring Systems for Wood-Fired Combustors is also in development

What's Next?

- A draft version of the small wood-fired combustor guideline will be shared with selected external technical specialist stakeholders for review and comment
- The guideline will then be posted to the EBR for public comment
- The final version will subsequently be posted and become available for use

Thanks for Attending!

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