

Canadian Advisory Council on Energy Efficiency (CACEE)

Open Meeting – Members and Guests

Date: Wednesday November 30, 2016

Place: Ontario Ministry of Energy offices, 77 Grenville St., 7th floor, room 7A, Toronto, ON

Time: 8:15 AM – 12:30 PM

Meeting Notes

Welcome and Introductions – D. Scharf

CACEE Chair Debbie Scharf welcomed all participants attending this open meeting of CACEE, both in person and by WebEx/Teleconference. The Ontario Ministry of Energy was acknowledged and thanked for hosting the meetings, along with their hospitality. It was noted that a Closed meeting of CACEE Government Regulatory and non-regulatory members was held on Nov. 29.

Senka Krsikapa of the Ontario Ministry of Energy provided general safety and housekeeping information to all participants.

A presentation attached as **A1**, guided the discussion.

A participant list is included as **A2**.

Review of meeting agenda – D. Scharf

The meeting agenda was reviewed and accepted as circulated.

SESSION 1: Updates

Round Table Update:

Objective: Members and guests to provide an update (**2-5 min**) on the following topics, as applicable:

- Current and planned activities related to equipment energy efficiency regulations;
- Innovative work related to equipment energy efficiency (e.g. market transformation initiatives);
- Emerging trends in certification including other collaborative sectors;
- Update on new standards development activities/trends related to product/equipment energy efficiency;
- Feedback for potential consideration by governments and accredited organizations.

The following information was captured during a roundtable of participants. Government participant feedback is captured by jurisdiction. All other input has been captured under general categories as noted;

Government jurisdiction

NRCan – Amendment 13 (A13), including new requirements for 20 products is on track for publication in early 2017 (Published on December 28, 2016).

- A Notice of Intent was released in April for Amendment 14 (A14), proposing new requirements for 17 products.

- A Technical Bulletin was released on Nov. 29, 2016 proposing to reduce delay for coming into force of A14. Further details are available through the following link; <https://www.nrcan.gc.ca/energy/regulations-codes-standards/19190?cldee=c2FtLmxvZ2dpYUBjc2Fncm91cC5vcmc%3d&recipientid=contact-64b692275c8ae61180e8c4346bdc11c1-2ffb35eb1c3543a3a7eb3deb94088f5c&esid=9249474c-80b6-e611-80f4-5065f38bf1c1>
- British Columbia - Climate Leadership is the chief driver for energy efficiency over the next 5 years:
 - Dual focus on getting gas and electric equip to high efficiency by 2025
 - Heat pumps are key to GHG reduction targets in the built environment,
 - Interest in accelerating RD&D for highest efficiency gas equipment, for example gas HPs
 - Tackling some larger industrial gas equipment, for example large package boilers
 - Continued focus on building components; using standards as a complement for codes (e.g. windows, HRVs)
- Manitoba – Legislation is being developed for a new Energy Efficiency Agency. Main area of focus continues to be in the area of Natural Gas.
- Ontario – Ontario’s 2013 Long Term Energy Plan (LTEP) is a key driver for energy efficiency standards in Ontario. It committed the government to regularly update its energy efficiency regulation and set a 30TWh conservation target to be achieved in 2032 by improved programs and codes and standards. Ontario is currently consulting on the next LTEP to be published in 2017. Electricity, along with other Fuels options are being considered. There is a strong tie-in to Climate Change initiatives. The intent of the most recently proposed update to efficiency regulation posted for public review in Summer 2016, was to further align Ontario’s energy efficiency standards with the US DOE and NRCan’s proposals. The proposed amendment is expected to be finalized by the end of December and if approved, will become effective on January 1, 2017 with product compliance dates varying from July 1, 2017 to January 15, 2021.
- Quebec – A Regulatory Update is Included as **A3**. Draft regulation was published in the *Gazette officielle du Québec* for a period of 45 days, ending August 27, 2016. Enactment planned for early 2017. A key focus will be the 2030 Energy Policy.
- Nova Scotia – Similar to other jurisdictions, the Province is experiencing pressures to move away from a reliance on Coal and Oil. A trend towards electrification has been observed, so a review is currently underway to develop plans to address this.
- Prince Edward Island – There is an imminent release of a new Energy Strategy planned. It is expected that Building and Energy Codes will be adopted province wide. Consideration is being given to the implementation of specific energy efficiency standards requirements. Added pressures to the Electrical grid have been experienced with one potential driver being the high adoption rate of heat pump technology.

SDO’s

- North-South and East-West Harmonization is a key focus of stakeholders
- ULC Thermal insulation and barriers standards are in the process of being updated.

- UL works closely with the DOE and AHAM and will be releasing shortly a new Smart Metering Standard intended as a National Standard of Canada.
- CSA has recently concluded “Energy Efficiency Standards Week”. The week was highlighted by meetings of the Strategic Steering Committee on Performance, Energy Efficiency and Renewables (SCOPEER), the SCOPEER Resources Task Force (SRTF), the SCOPEER Executive and the 4 Technical Committees on HVAC&R, Industrial Equipment, HVAC&R, and Lighting. The output to this week of meetings, will serve as input into a new Standards work plan for FY 17/18.
- Working closely with all stakeholders, including the regulatory community continues to be key.
- Increasing trend seen to consider systems vs. product efficiency.

CO's

- North-South and East-West Harmonization of Product requirements is a key focus for stakeholders.
- Strong uptake being seen in ENERGY STAR certification and verification programs.
- Discussion occurring at DOE around 3rd party certification vs. self-declaration. Concern exists by some CO's that that the implications of self-certification may not be well understood.

Guests

- North-South and East-West Harmonization of Product requirements is a key focus for stakeholders.
- Increasing trend seen to consider systems vs. product efficiency.
- Several participants noted their participation in CSA Energy Efficiency Standards Committees, to support their organizational and Association input into Energy Efficiency Standards development.
- The CGA has recently completed a collaborative effort with NRCAN on Water Heaters. They are now considering “combo” units vs. air source. Monitoring ASHRAE efforts.
- Manitoba Hydro noted the complete integration and investment of significant resources in the support of DSM programs and development of Energy Efficiency Standards. Has the input of the Utility sector been adequately solicited/considered with respect to RCC and various regulatory harmonization initiatives? Concern exists that the burden of supporting Standards development falls on the shoulders of a few, when compared to the broad based benefits being provided. Geographical location needs to be a key consideration when determining the need to harmonize vs. developing regional specific requirements.
- The Ontario IESO Conservation 1st Framework is being written with a target of 7TWh's of energy savings by 2020. More details including project details are available at; <http://www.powerauthority.on.ca/opa-conservation/conservation-first-framework-2015-2020>
- The AHRI is awaiting signals from the new US Administration regarding the direction for US Energy Efficiency.
- AHAM Canada, Electro federation Canada, AHRI and CIPH are supportive of catch-up efforts by NRCAN to align with US DOE, and progressive statements being released. A challenge for industry

remains when Canada falls behind the US. Alignment of labelling, eg. EnerGuide stated efficiency, is an ongoing challenge.

- An update was provided by the Standards Council of Canada, covering; SCC Key Activities, SCC – RAAB relationships and MOUs, ORD Guidelines and Legacy Issues, ORD by RAABs and Next Steps.

Some highlights include;

- SCC is centered on three objectives:
 - 1 standard and 1 test
 - Market access, and
 - Protecting social and individual well being
- To meet Government priorities and Stakeholders needs, the SCC is focused on 7 key activities: North American Alignment, Innovation, Infrastructure, the Comprehensive Economic Trade Agreement, otherwise known as CETA, Modernizing Canada’s Standardization Governance, Canada’s Free Trade Agreement, and formalizing relations with P/T regulatory authority bodies through the signing of a Memorandum of Agreement that aim to promote better coordination and collaboration about activities pertaining to standards, conformity assessment and Other Recognized Documents (ORDs).
- SCC has recently launched a new infrastructure program which aims at ensuring that Canada’s standardization system effectively supports climate resilience in infrastructure.
- SCC’s Energy Management System Accreditation Program assesses competence of bodies that intend to certify organizations to ISO 50001 Energy Management Systems, and accredits certification bodies that certify energy management systems
 - Approximately 14 CB’s are accredited by SCC -energy efficiency in scope accredited
 - 0 CB’s are accredited to the Energy Management Systems ISO 50001?
- SCC is interested in meeting with CACEE again in the near future to explore issues and priorities from a standardization perspective.
- An invitation was extended for CACEE Chair or designate representation at next NPSAC meeting (May, 2017)

Further details are available in the attached Presentation, **A4**.

Liaisons

- The NRC’s CCBFC has developed a *Position Paper on a Long-Term Strategy for Developing and Implementing More Ambitious Energy Codes*, which includes consideration for combining of both Performance and Prescriptive requirements and various Tiers or Levels (eg. 1-5) in the Model National Energy Code. A copy of the Position Paper is attached as **A5**. CACEE participants are invited to comment.

In general several themes emerged, including the desire to achieve product harmonization of requirements, both within Canada and between Canada and the US, Market transformation going forward, the Roles and

opportunities for Codes and Standards, inclusivity of stakeholder input eg. Utilities, A trend for Product to System Efficiency, and the uncertainty of the New US administration on Energy Policy.

Chair Update: Areas of interest, , ,

Terms of Reference: The draft CACEE Terms of Reference are being revisited to ensure they will meet the current needs of stakeholders since they were initially developed. Added feedback and a path forward to their completion will be provided once the review is complete.

Action: Revised CACEE terms of reference to be distributed in New Year.

Regulatory Cooperation Council: The Regulatory Cooperation Council between Canada and the US is a continuing key initiative – More details including an updated workplan (on track) may be found at <https://www.tbs-sct.gc.ca/ip-pi/trans/ar-lr/rcc-ccmr/index-eng.asp> Good cooperation is being experienced between NRCan and the DOE staff. “State of Alignment” between DOE and NRCan has been delayed but may be expected shortly. Various options and tools are still being considered to allow for greater harmonization.

Federal / Provincial / Territorial Collaboration: Agreement reached on collaboration between FTP with the publication of a framework and action plan in August 2016 as part of the Energy Ministers and Mines Conference (EMMC). It generally follows the context and principles agreed between provinces within the Canadian Energy Strategy (CES).

- An overview of EMMC may be accessed through the following link;
<http://www.nrcan.gc.ca/publications/11102>
- A copy of the Canadian Energy Strategy and background may be accessed at;
<http://canadaspremiers.ca/en/initiatives/130-energy-working-group>
- A copy of the Internal Trade Agreement and background may be accessed at;
<http://canadaspremiers.ca/en/initiatives/410-steering-committee-on-internal-trade>

SESSION 2: Topics of Common Interest

Topic 1: Green Button – Overview and update on Ontario’s Green Button Initiative.

Rebecca Teare, Policy Advisor at Ontario Ministry of Energy, presented on the Ontario Green Button Initiative. Highlights include;

- Ontario’s 2013 Long-Term Energy Plan promoted Green Button as a way to empower consumers with access to their electricity consumption data in a standardized format. It can also be extended to natural gas and water utility data.
- The province’s Climate Change Action Plan released on June 8, 2016 committed to expand the Green Button program province-wide and include electricity, natural gas and water to help more households and businesses manage and conserve their energy and water use. Green Button is a

data standard that provides utility customers secure access to their utility (i.e. electricity, natural gas, and water) consumption information in a user-friendly format.

A copy of the presentation has been requested and will be provided if made available. Further outreach is planned by the Ontario Ministry of Energy to CACEE CO stakeholders.

Topic 2: Alternative Energy Determination Methods (AEDM)

Discussion on plans to allow alternatives to regulated test procedures including the mathematical modelling and deemed equivalency (following U.S. Department of Energy AEDM and ARM process and Ontario's reference to deemed equivalency)

Refer to **A1** for added details on proposal. A roundtable discussion took place on AEDM, which are currently in use in the US. A link is provided as reference; <http://energy.gov/eere/buildings/articles/doe-issues-final-rule-alternative-efficiency-determination-methods-and>

General feedback included;

- One of the projected benefits to AEDM is adding greater flexibility.
- Concern exists amongst CO's that determinations of equivalency through calculations may not be consistently applied. Added risk may be borne by CO's who choose to use it, in current environment. I.e. Will the accreditor (SCC) consider equivalency determination within the scope of what CO's are accredited for?
- What are the anticipated costs to CO's and their customers associated with developing this AEDM?
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Topic 3: CSA Fast-track Standards

Canadian Standards Association to provide an update on work on streamlining national Energy Efficiency standards development.

An overview was provided by Cliff Rondeau, CSA Group, of the new FastTrack and Path process, in support of the RCC initiatives. It was noted that these standards development paths would be applicable to harmonization projects with no/minor proposed technical Canadian deviations (i.e. Path 1). The presentation is attached as **A6**.

Those having participated in the pilot projects, found that they were effective in providing an expedited review & path for Standards projects, where harmonization with the US DOE was an intended outcome.

Topic 4: Regulatory Portal

Discussion on implementation of a web portal for forward regulatory plans; and review of the Canadian Standards Association-sponsored energy efficiency portal

JP Gamache provided an overview of considerations for development of a Regulatory Portal or tool to allow stakeholders access to data which would provide a snapshot of product regulatory alignment (or misalignment) across Canada. The presentation is attached as **A7**.

It was noted that a previous effort was undertaken but was found to be cumbersome and became out of date. A CSA Web Portal sponsored by several organizations, currently provides access to CSA Energy Efficiency Standards which are referenced by Energy Efficiency regulations across Canada. This portal may be accessed at <https://community.csagroup.org/community/energy-efficiency/standards-access-portal->. While it provides access to many referenced CSA Energy Efficiency Standards, it was not designed to provide a mapping and direct comparison of all products.

A progressive approach is envisioned in a “Regulatory Portal”, with an intent for users to be able to easily identify products and the status of their regulatory alignment.

General feedback included a recommendation that along with access to Energy Efficiency Standards, it would be “nice to have” for relevant product safety standards to also be included.

JP noted that this review would continue and further consultations are expected to take place as this discussion is progressed.

Conclusion and next steps

The Chair requested feedback from all attendees in terms of what they found was productive, and/or could be improved upon in running of the CACEE meeting, future topics, etc.

- Initial feedback suggested there is benefit to collaborative discussions vs. the earlier reporting formats.

The next CACEE meeting time and location has not been confirmed, however will be at the earliest possible time. Realigning CACEE Face-to-face meetings with the CSA Group Annual Meeting, proposed for Halifax in June 2017, is being considered.

The Chair thanked all participants and the meeting was adjourned. Lunch was kindly arranged for by the Ontario Ministry of Energy.