



Report on Activities

An Overture to the OGA Annual General Meeting

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FEBRUARY 27, 2018

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1. Program Development in Ontario
 2. Quality Assurance Measures
 3. Utility Discussions
 4. Federal Climate Change Dialogue
 5. Where do we go from here?

GreenON and the Low Carbon Technologies Incentive Program

- ❖ Introduction of the *Climate Change Solutions Deployment Corporation* in Jan 2017
- ❖ Tasked with *investing* the proceeds of Cap and Trade (\$billions)
- ❖ Branded and formally launched in August, 2017 as Green Ontario Fund, or **GreenON**
- ❖ Launch of Low Carbon Technologies Incentive Program in December
- ❖ Focus on residential retrofit and custom homes
- ❖ Multiple measures, more to come
- ❖ Geothermal incentives at a higher level than any previous program!



FROM THE **GROUND UP**

OGA CONFERENCE 2018

February 27 - 28 | The Westin Toronto Airport | Toronto, ON

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Training and Quality Assurance Measures

- ❖ OGA Technical Training and Certification Committee
- ❖ Discussions with Ontario College of Trades
- ❖ Discussions with MOECC re Environmental Regulations
- ❖ Retained services of Egg Geothermal – ***Guideline Document*** for IESO/GreenON
- ❖ HRAI secured training for Installers and Designers via contract with **IGSHPA**
- ❖ Training for Building Officials (funded by IESO)
- ❖ Proposal for Program-Funded Inspections as an extension of training (TBD)

OGA Discussions with Enbridge

- ❖ A consequence of OGA's intervention in the OEB Natural Gas Expansion Proceeding (EB 2016-0004)
- ❖ Enbridge and Union Gas denied the opportunity to subsidize NG system expansion, but independent rate classes for new communities permitted
- ❖ OGA testimony exposed the utility to the business case for geothermal loops as a utility offering
- ❖ Enbridge-OGA *Memorandum of Understanding* has resulted in pilots and a model for geothermal deployment in residential new construction

Federal Discussions on Climate Change Action

- ❖ Everything flows from the *Paris Climate Agreement* signed late in 2015, obliging Canada to reduce greenhouse gas emissions, with set targets
- ❖ Federal and Provincial Governments in Canada are committed (and compelled) to act in some fashion
- ❖ These actions will have radical consequences for the HVACR industry
- ❖ A major focus on energy efficiency & fuel switching

Under the *Pan-Canadian Framework on Clean Growth and Climate Change*, building-related measures are expected to deliver significant GHG reductions

PAN-CANADIAN FRAMEWORK



on Clean Growth and Climate Change

Canada's Plan to Address Climate
Change and Grow the Economy

GHG reductions through (among other things):

- ❖ Net-zero energy ready building codes by 2030 (Lots of work on this)
- ❖ Model retrofit code by 2022 (Discussions have started)
- ❖ Labelling/rating requirements as early as 2019
- ❖ Federal buildings retrofits
- ❖ Performance standards set to the highest level economically and technically feasible for heating equipment and other key technologies
- ❖ Unlocking private sector investment through financing tools



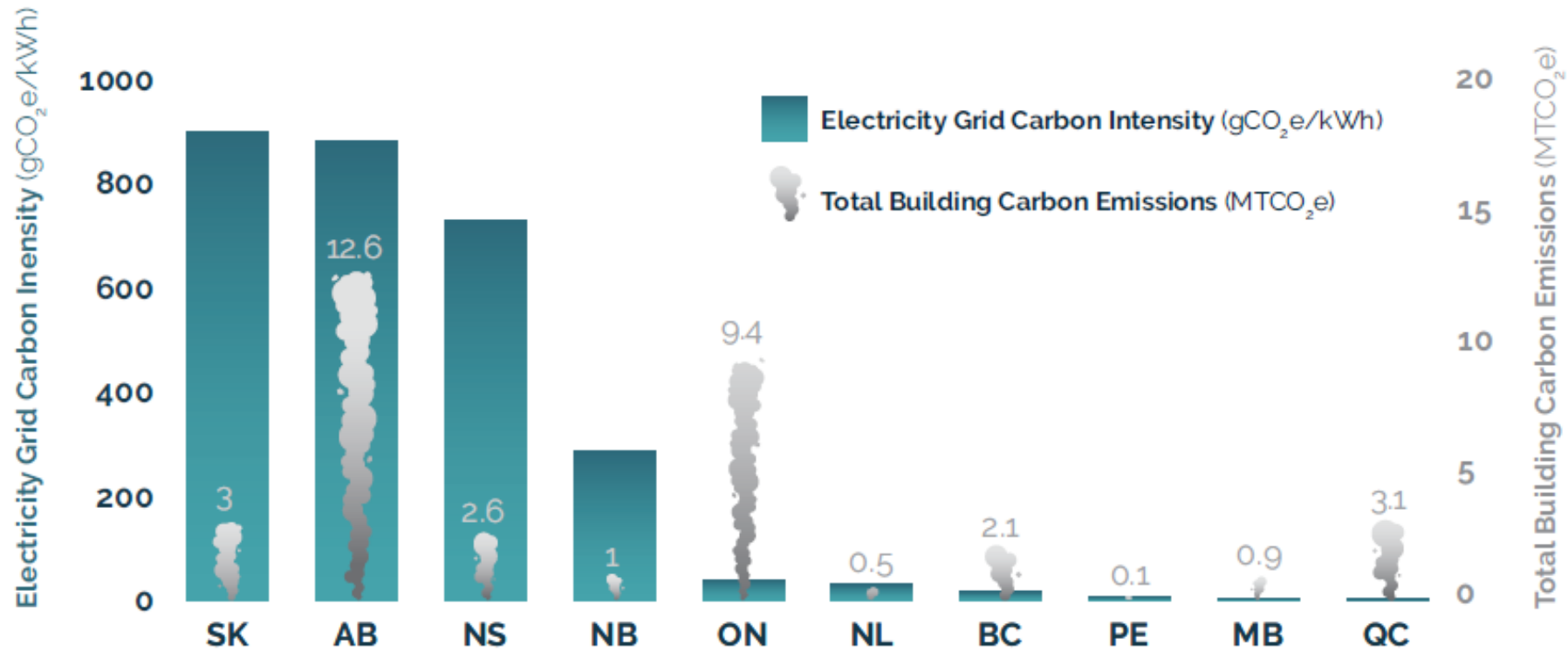
Market Transformation for Space Heating Technologies in Canada

Stakeholder workshop with federal-provincial-territorial governments

March 28, 2017

Federal government consultations have begun and, as expected, the focus is on energy efficiency, and much of the discussion will be on the heating and cooling of buildings





Source: 2014 emission intensities from Canada's National Inventory Report 2017, 2016 emissions from WSP National Carbon roadmap model.

Recent and Upcoming Consultations/Representations

- ❖ Generation Energy Conference (Nov 2017) – *and follow-up...*
- ❖ Market Transformation for Space Heating Technologies (ongoing)
- ❖ Standing Committee on Environment and Sustainable Development (Feb 13th)
- ❖ Roundtable on Financing: Establishing a Retrofit Economy in Canada (Feb 26th)
- ❖ Senate Standing Committee on Energy, The Environment and Natural Resources (HRAI, Mar 29th)
- ❖ And much more to come...

Where does the geothermal industry go from here?

- ❖ Need to build capacity within the industry in Ontario through training
- ❖ Roll out of quality assurance measures
- ❖ Expansion of program into residential new construction and commercial buildings (through different measures)
- ❖ Ongoing exploration, experimentation and deployment of new financing models (including LIC, infrastructure investment)
- ❖ Need to unite provincial organizations through one voice in Ottawa – ***now is the time!***



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