B.C. Energy Efficiency Policies for Buildings

From one Climate Action Plan to the next

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Overview

• Policies from 2007 Climate Action Plan
• Policies in development
• Options for 2016 Climate Leadership Plan
B.C.’s groundwork towards energy efficiency in the buildings sector

2007 Climate Action Plan (and associated policies)

- Clean Energy Act: 66% of new demand to be met through efficiency and conservation
- Energy Efficient Building Strategy
  - Target: 33% GHG reduction by 2020
  - ASHRAE 90.1-2004
  - Incentive program (Livesmart)
- Climate Action Charter
- Carbon Neutral Government
- Carbon tax
First Net Zero Commercial Building in Canada
First Passive House MURB in Vancouver
Cornell Tech, NY
Growth of ‘Net-Zero’ and ‘Net-Zero Ready’ buildings in North America
B.C. Policy: Recent developments

- 2013 – Commit to ‘lead the way to net-zero buildings’ with Coast Collaborative partners (WA, OR, CA)
- 2013 – Adopt NECB 2011 and ASHRAE90.1-2010 (Part 3)
- 2014 – Adopt NBC-2010 Section 9.36 (Part 9)
- 2015 – Building Act
- 2015 – Stretch code development and Energy Efficiency Working Group
A good start, and now we need a revised road map to achieve net-zero target
Key ingredients to net-zero ready

1. Clarity on goal and timeline

2. Benchmark, report and disclose energy performance

3. Create a stretch code: Harmonized beyond-code requirements for incentives and opt-in bylaws

4. Incent and market “exemplary buildings”: create competitive program for ‘net-zero ready’ buildings

5. Lead by example: net-zero ready for new public-sector buildings + public-sector retrofit program
## Timeline to net-zero ready

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<th>Year</th>
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| 2016 | Declare net-zero ready by 2030 goal + interim targets  
Develop provincial stretch code  
Launch exemplary building pilot project program |
| 2018 | Update energy code to ASHRAE 90.1-2016 or revised NECB-2015 |
| 2020 | Review research on the first wave of exemplary building projects and earlier pilot projects  
Assess market readiness for a net-zero ready standard + announce regulation  
Require net-zero ready for rezoning in the City of Vancouver |
| 2025 | Adopt net-zero ready standard in Lower Mainland / south coast |
| 2027 | Adopt net-zero ready standard in rest of Province |
| 2030 | Almost all new part 3 buildings are net-zero ready |