

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



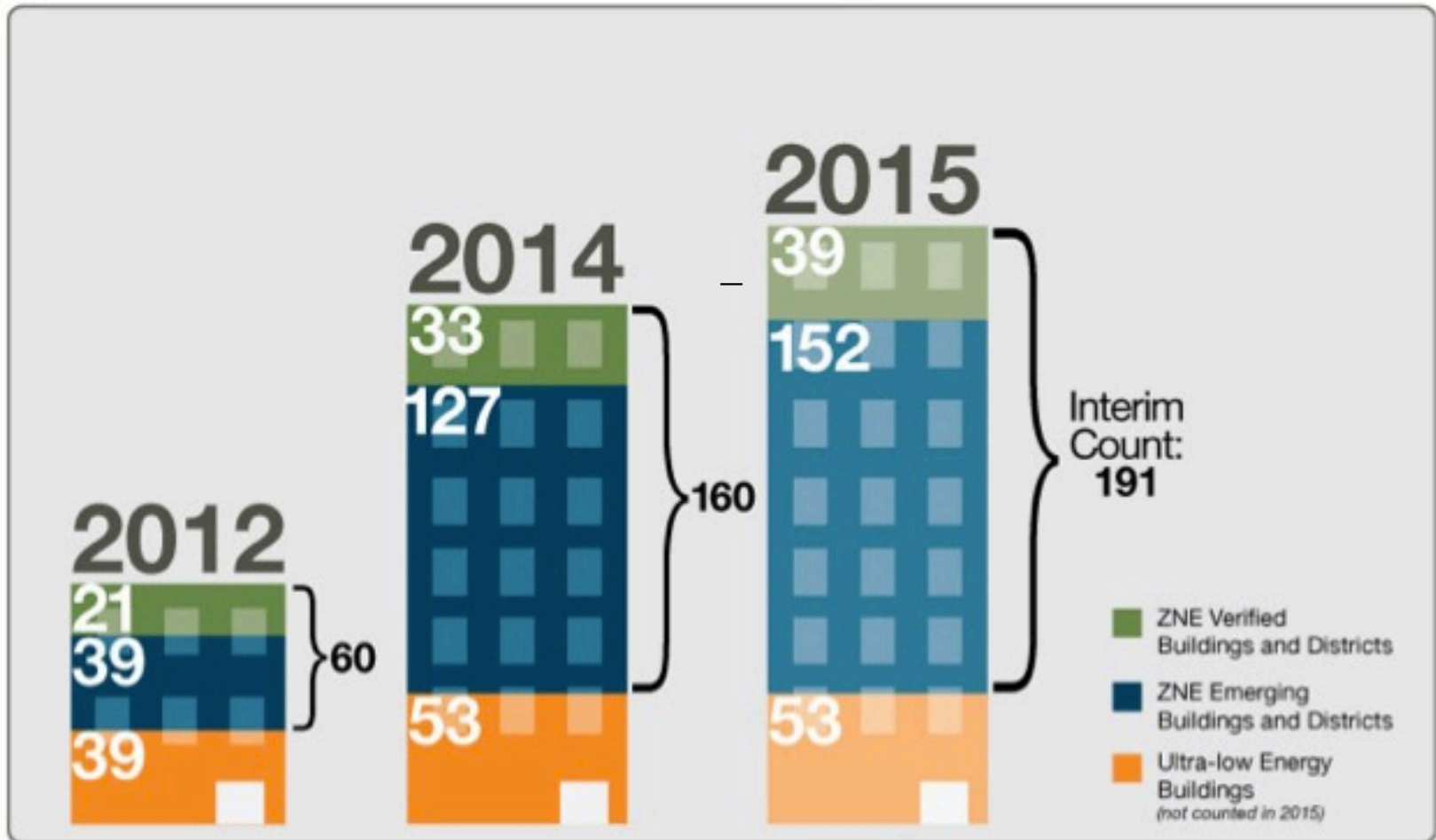
First Passive House MURB in Vancouver



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 ASHRAE 90.1-2010 (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

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

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