RECOMMENDED ADOPTION OF

BC Energy Step Code



Purpose

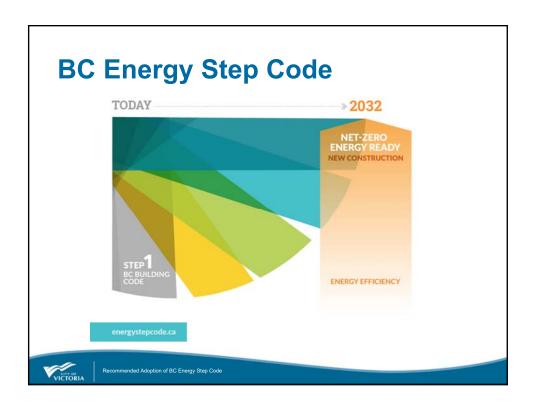
- To provide Council with results and feedback from industry consultation on the proposed adoption approach to the BC Energy Step Code
- To seek Council approval for a recommended adoption approach to the BC Energy Step Code
- To seek Council's direction to prepare the necessary building bylaw amendments necessary for Step Code adoption



Climate Leadership Plan Targets for Buildings

- By 2030, all new buildings are "net zero energy ready".
- Before 2050, all existing buildings are retrofitted to high efficiency standards (TBD).
- Oil heating is phased-out by 2030.
- Before 2050, all buildings will only use renewable energy.





Approach Taken for Industry Consultation

(Jan-Mar 2018)



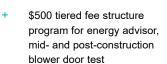


Step 1 Nov 2018 Step 3 Jan 2020



Small SFD (garden suite) Step 1 Nov 2018

Step 2 Jan 2020





(mid-rise)

Step 1 Nov 2018

Step 3 Jan 2020









Commercial

Step 1 Nov 2018 Step 3* Jan 2020 Step 3* Jan 2020

*Step 3 is considered an Upper Step for highrise and commercial buildings, and this may result in design implications for these building typologies



Industry Engagement

Event	Date	# Attendees
Building Industry Survey	Aug-Sep 2017	57
CRD Housing Action Team Presentation	Oct 30, 2017	Approx. 20
Building Industry Workshop #1	Nov 1, 2017	90
Survey # 2	N/A	13
Building Inspectors Working Session	Nov 6, 2017	41
Elected Official Building Tour	Nov 10, 2017	25
BC Housing Building Smart Series: Lower Steps	Nov 16, 2017	87
Local Government Workshop	Nov 30, 2017	31
Realtor Workshop: "Selling Energy Efficiency"	Dec 8, 2017	32
Building Industry Workshop #2 – Option 1	Feb 21, 2018	45
Building Industry Workshop #2 – Option 2	Feb 22, 2018	36
Survey # 3	Closed Mar 28, 2018	102
Part 3 Residential Developers Focus Group	Mar 19, 2018	8













Recommended Adoption of BC Energy Step Code

Phase 2 Industry Feedback

Step Step 3 generally seen as achievable for Part 9 (e.g., Requirements single family homes) Step 3 generally seen as a challenge for Part 3 high-rise concrete residential and commercial office, as it is an 'Upper Step' **Timelines** Step 3 for Part 9 (e.g., single family homes) viewed as a bit fast but achievable January 2020 Step 3 for Part 3 high-rise concrete residential and commercial office viewed as ambitious in terms of timeline, as it is an 'Upper Step' Accelerated timelines - may be potential move up Step 1 timeline (September) but Step 3 January 2020 seen as fast and should not be accelerated **Application** Tiered fee program for Part 9 (e.g., single family home) **Process** projects seen as a 'nice to have' but not hugely useful Part 3 project teams advocate for requirements to be triggered at DP/rezoning as opposed to BP



Approach Taken for Industry Consultation

(Jan-Mar 2018)





Step 3 Jan 2020



Small SFD (garden suite) Step 1 Nov 2018

Step 2 Jan 2020

\$500 tiered fee structure program for energy advisor, mid- and post-construction blower door test



Residential (mid-rise)

Step 1 Nov 2018 Step 3 Jan 2020

typologies

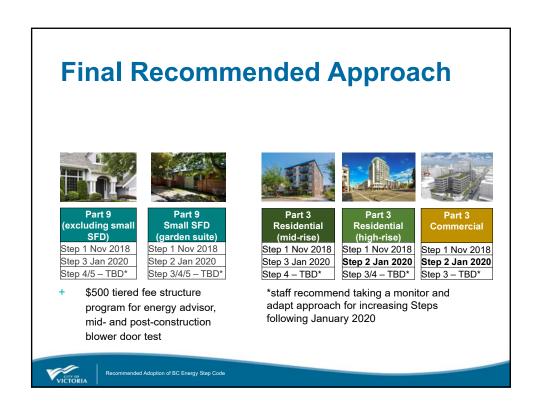


Residential (high-rise) Step 1 Nov 2018 Step 3* Jan 2020 Step 3* Jan 2020

Step 1 Nov 2018

*Step 3 is considered an Upper Step for highrise and commercial buildings, and this may result in design implications for these building







Option for Part 3 Buildings

Step 3 Rezoning Policy

- Step 2 as a base building requirement for Part 3 highrise/concrete residential and commercial buildings
- Step 3 included as a rezoning policy consideration for these building types.









Part 3 Residential (high-rise) Step 1 Nov 2018 Step 3 Jan 2020 Step 2 Jan 2020 Step 4 – TBD* Step 3/4 – TBD*

Commercial

Step 1 Nov 2018 Step 2 Jan 2020 Step 3 – TBD*



Tiered Fee Program

Part 9 Buildings





(excluding small SFD) Step 1 Nov 2018 Step 3 Jan 2020 Step 4/5 – TBD*

Small SFD (garden suite) Step 1 Nov 2018 Step 2 Jan 2020 Step 3/4/5 - TBD*

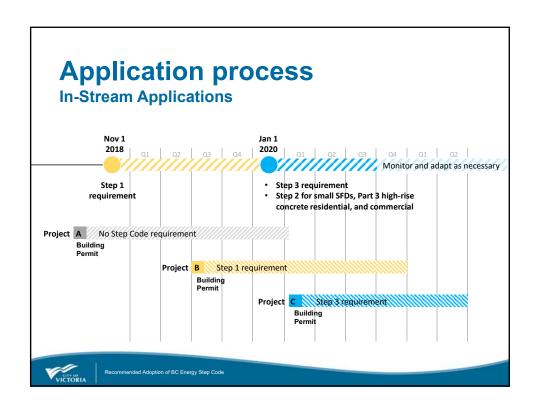
\$500 tiered fee structure program for energy advisor, mid- and post-construction blower door test

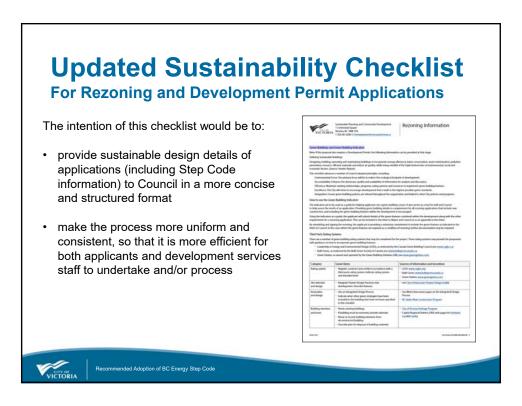
To be eligible for a reduced fee of \$500, applicants will have to demonstrate that they have:

- 1. hired a licensed energy advisor,
- 2. conducted a mid-construction blower door test,
- 3. conducted a final, post-construction blower door test, and
- 4. completed an EnerGuide rating and label for the new home.

BC Hydro has announced a funding offer to assist eligible communities in providing such a program







Recommendation

- 1. That Council adopt the following approach to the BC Energy Step Code, and direct staff to prepare building bylaw amendments:
 - a. For new Part 9 buildings:
 - i. Step 1 building bylaw requirement starting Nov 1, 2018
 - ii. Step 3 building bylaw requirement starting Jan 1, 2020 for all new Part 9 buildings with the exception of small single family homes/garden suites
 - iii. Step 2 building bylaw requirement starting Jan 1, 2020 for all new small single family homes/garden suites
 - iv. Development of a tiered fee program to support Part 9 builders to use an energy advisor, conduct a midconstruction blower-door test, conduct a post-construction verification blower-door test, and obtain a home EnerGuide label.



commended Adoption of BC Energy Step Code

Recommendation (continued)

- b. For new Part 3 buildings:
 - i. Step 1 building bylaw requirement starting Nov 1, 2018
 - iii. Step 2 building bylaw requirement starting Jan 1, 2020 for concrete high-rise residential buildings
 - iv. Step 2 building bylaw requirement starting Jan 1, 2020 for commercial office buildings.
 - ii. Step 3 building bylaw requirement starting Jan 1, 2020 for wood-frame mid-rise residential buildings
- That staff proceed with preparation of a sustainability checklist for rezoning and development permit application forms that reference Step Code requirements as well as other sustainable design elements that are reflective of City goals and policies.



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