

Energy Step Code Implementation



Implementation Strategy Engagement

- 1. Inform pertinent stakeholders;
- 2. Gather feedback on the **proposed policy timeline**;

Pt 9 Residential Building Type	Apr 1, 2019	Oct 1, 2020	2022
SFD/2/3/4-plex	Step 1	Step 3	-
Carriage house	Step 1	Step 2	Step 3
Townhouse/Low-Rise Apartment	Step 1	Step 3	-

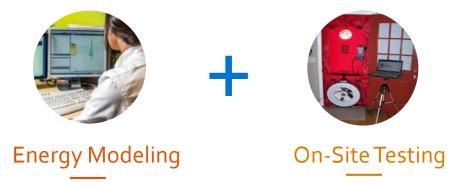
3. Gather feedback on the **tools and resources needed**.

BC Energy Step Code Recap

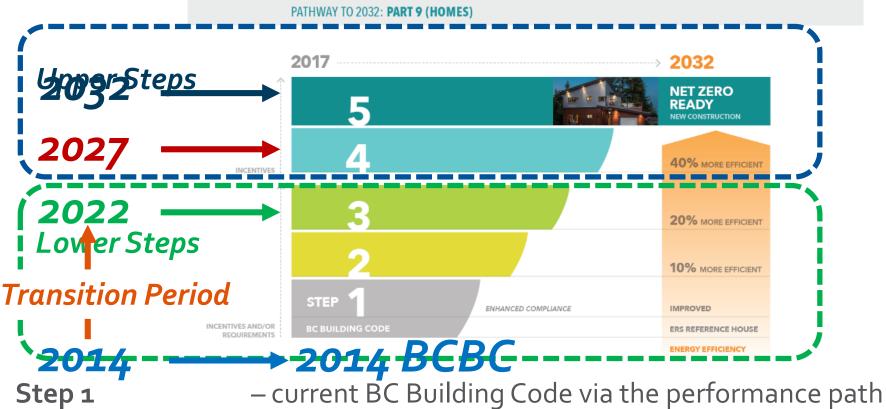
The ESC is a **transition policy** that provides an **incremental** and **consistent** approach to achieving more energy efficient buildings that go beyond the requirements of the **current BC Building Code**.

Prescriptive

Performance



Focus to 2020: Part 9 Residential Buildings, Lower Steps



Lower Steps (2/3) use conventional materials and techniques

Upper Steps (4/5) – may require innovative materials and practices

Engagement Approach

- ➤ Over 30 touchpoints with affected parties from September 2017 to August 2018:
 - Meetings, informational offerings (print, email, web), several industry surveys, targeted training
 - ► In collaboration with local municipalities from Vernon to Penticton, and in conjunction with local chapters of UDI and CHBA.

Regional Industry Survey

- Open from Apr 12 to May 23, 2018;
- ▶ 53 responses;
- ▶ 86% indicated that the proposed timeline is achievable;
 - Many viewed training/education a key to a smooth transition;
 - Incentives seen as an important tool to support the transition;
 - ► Having sufficient Energy Advisor capacity noted as crucial for the timelines to work;
 - Some concern for affordability, especially for the higher 'Steps'.

Step Code Industry Workshop

The Energy Step Code Workshop was an opportunity for industry professionals to learn about building to the BC Energy Step Code, with a special emphasis on improving thermal performance, airtightness and moisture management, and provided information on forthcoming regulatory changes, available incentives, and the process of working with an Energy Advisor.



May 31, 2018 Kelowna, BC 106 Participants

Presenters:

Peter Robinson: Community Energy Associatio

Marika Luczi: Canadian Home Builders Association - Central Okanagai

Ashley Lubyk: City of Kelowna

Hayley Newmarch: FortisBC

Hamid Heidarali: Hamid Design Build

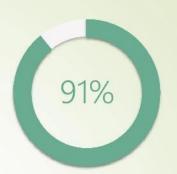
Gilles Lesage: Total Home Solutions



of survey respondents rated the workshop as:

"Very" or "Extremely" Helpful

in improving their understanding of improved thermal performance, air tightness and moisture management in buildings.



of survey respondents rated the workshop as:

"Very" or "Extremely" Helpful

in improving their understanding of achieving Energy Step Code compliance.



of survey respondents rated the workshop as:

"Very" or "Extremely" Helpful

in improving their

understanding of what it is like to work with an energy advisor.











The Voice of the Residential Construction Industry in BC

Addressing Step Code Concerns

Concern	Response
Insufficient Energy Advisor Capacity	Increased capacity is contingent on governments enacting robust regulations to backstop investment in training or additional staff
Impacts affordability	 Costing studies demonstrate a modest (less than 1% cost premium for the Lower Steps) Optimization through performance pathway can reduce costs Operational costs are reduced
Will slow down building permit processing times	 The energy modelling is a relatively quick and simple process done during the design phase and will be completed before a building permit is applied for
Lack of industry skills	 The design and construction techniques necessary for Step 1 are unchanged from the requirements from base BCBC CHBA, BC Housing, NRCan, among others, have already begun offering training related to the Step Code

Recommendations – A Combined Approach

Regulation

- ► Enact the implementation timeline
 - ▶ Modest revision to reflect adjustments made by the Province

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Pt 9 Residential Building Type	Apr 1, 2019	Oct 1, 2020
SFD/2/3/4-plex, Carriage house and Townhouse / Low- rise apartments	Step 1	Step 3

Original Proposal

Recommendation

Recommendations – Incentives

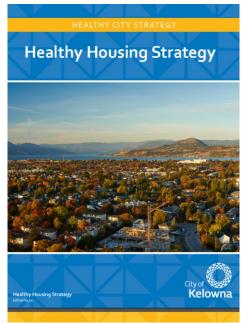
Incentives

- Amend the Zoning Bylaw to relax side yard, rear yard, front yard, and/or flanking street set backs by up to o.25m
 - Removes barrier associated with thicker walls
- Offer building permit rebates to incentivize 'Upper Steps'
 - ▶ \$500 for Step 4
 - ▶ \$1000 for Step 5

Delivering on our Plans

- ► Kelowna's Community Climate Action Plan
 - City-wide requirement for Step Code by April 2019 (Action #B5)
 - Relax setback requirements in Zoning bylaw (Action #B6)
 - Create a building permit rebate program to incentivize Upper Steps (Action #B7)
- Kelowna's Healthy Housing Strategy
 - Implement Step Code to increase energy efficiency and reduce household carrying costs.

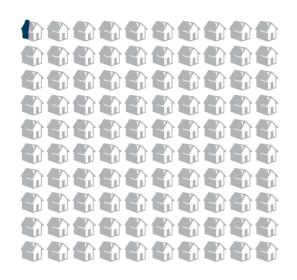




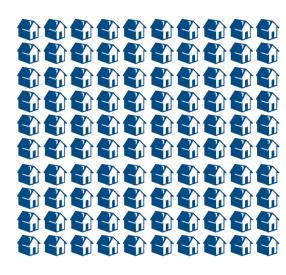
Next Steps

- ► Facilitate additional training and education
- ➤ Consult on implementing ESC for Part 3 buildings once available (expected Dec 2018)
- ► Continue working with Regional partners
- ▶ Develop Community Retrofit Strategy

Impact through Leadership







Voluntary Uptake Incentive Uptake Combined Approach – Regulation & Incentives



Questions?

For more information, visit **kelowna.ca**.