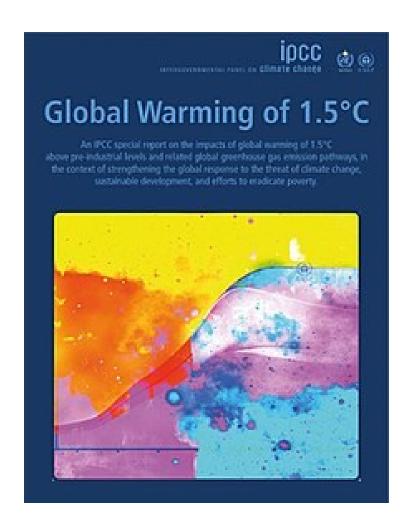


# Updated Energy Step Code Implementation Strategy

May 6, 2019

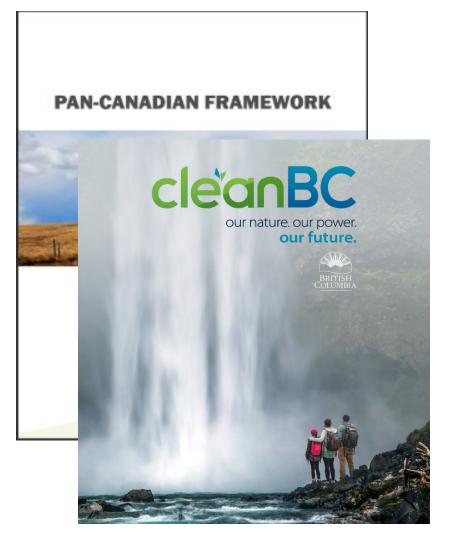


### The time to act is now



Urgently need rapid, far-reaching and unprecedented change in all aspects of society by 2030 to limit global warming to 1.5°C to avoid catastrophic impacts

### National and Provincial direction



- ► Pan Canadian Framework
  - ► Federal plan to reduce GHGs
  - Net-zero energy ready by 2030
- ► Clean BC
  - Provincial plan to reduce GHGs and energy
  - ► Timeline for Energy Step Code

## BC Energy Step Code

Designed to help industry move incrementally toward "net-zero energy ready" for all new construction by 2032.



A building built to high energy efficiency standards such that it could – with additional measures – generate enough on-site energy to meet its own energy needs



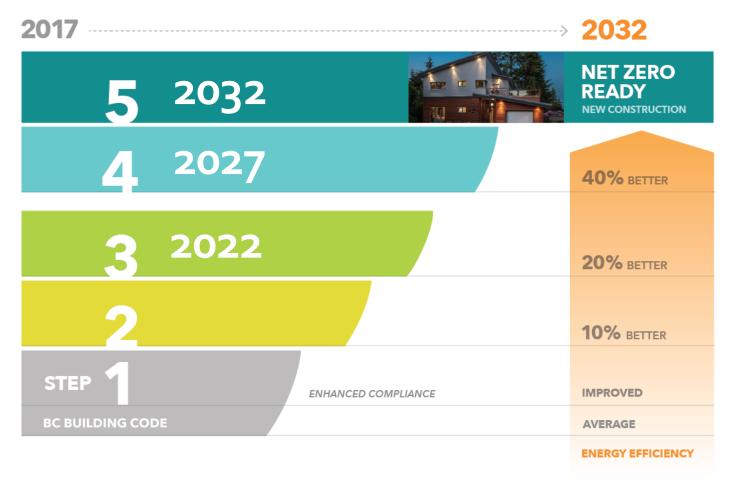




**Energy Modelling** 

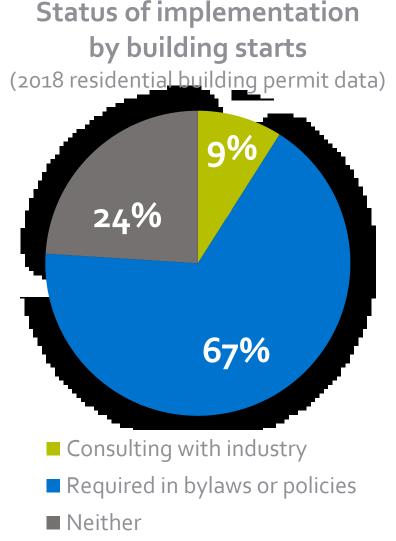
**On-Site Testing** 

## Province sets timelines

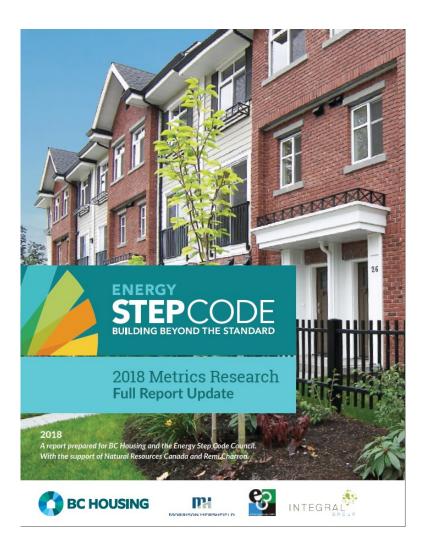


## Step Code adoption

- ► Communities that represent two-thirds of the province's residential building permits have now enacted Step Code in building bylaws or policies.
- ► Local adoption:
  - PentictonStep 1: March 15, 2019
  - ► Lake Country Step 1: April 1, 2019



## Costing studies



- ► BC Housing's Metrics Research
  - Studied how to achieve low costs for each step based on optimized building design
  - Costs varied between 0.4 –1.2% to achieve Step 3

## Costing studies







December 2018

A Report Prepared for Consumers

By CHRA CO

- CHBA-CO Costing Study
  - Studied incremental costs to an existing design to meet various steps
  - Costs varied between2.5 6.4% to achieveStep 3

## Costing studies

#### INSIDE THE STEP 3 HOME

Projects that point to the future of B.C. home performance



- ► BC Hydro' Community Energy Managers' Network Case Studies
  - Studied 5 recently constructed single family homes
  - Costs varied from o-2% to achieve Step 3 (4 homes)



90,000 Total Units by 2040





**Actions for New Housing Built After 2018** 

1.Energy Step Code for Part 9 (2019)

2.Energy Step Code for Part 3 (TBD)

## Engagement

- Over 55 touchpoints from Sept. 2017 to April 2019:
  - Meetings, print, email, web, industry surveys, targeted training
- Energy Step Code Solutions Lab
  - ▶ February 12, 2019
  - Diverse group of representatives

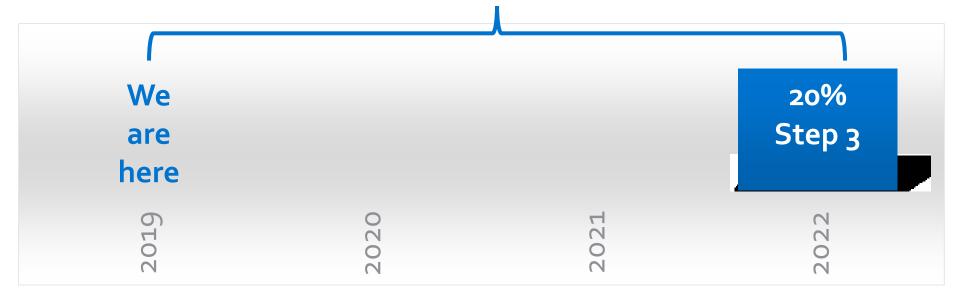


Photo credit: Energy Step Code Council March 2019 Monthly Update

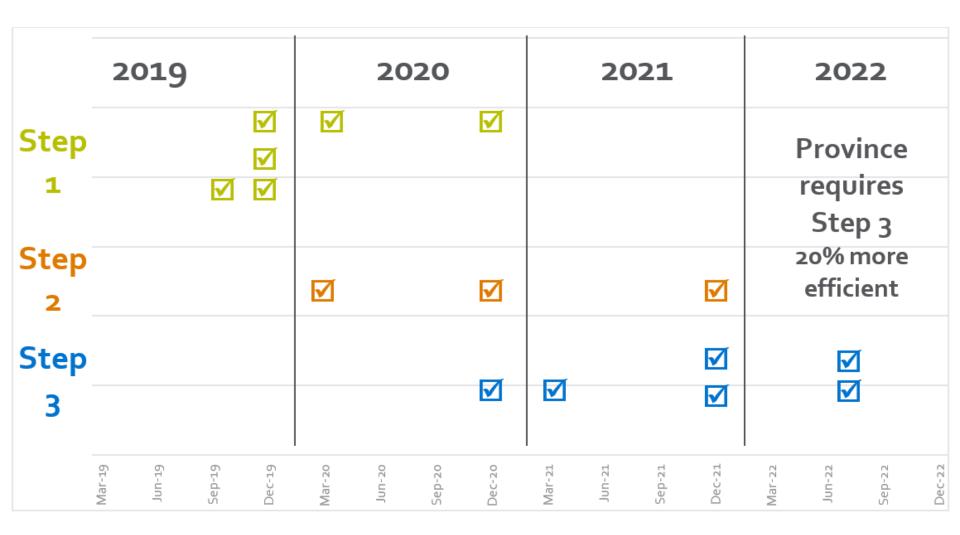
## Solution Lab task

Diverse group of impacted industry stakeholders worked together to create a solution that incorporated reducing energy use while building industry capacity between now and 2022.

FOCUS
Getting to 2022

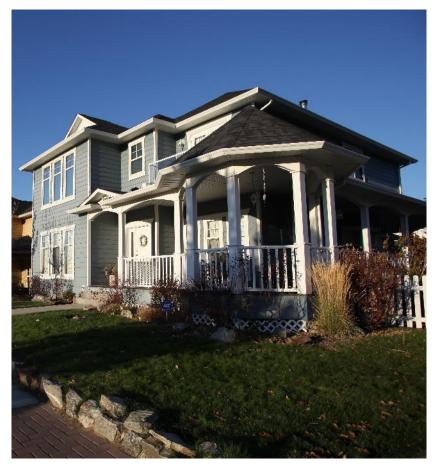


## Solutions Lab summary



# Updated Implementation Strategy

- ► For Part 9 Residential Buildings
  - 1. Timeline
  - 2. Incentives
  - 3. Training



## Timelines

	Original Proposal (August 27, 2019)	Revised Implementation Strategy (May 6, 2019)
Step 1	April 1, 2019	December 1, 2019
Step 3	October 1, 2020	June 1, 2021

#### Incentives

Original	Pro	posal
(August	27,	2019)
		(August 27,

Revised Implementation Strategy (May 6, 2019)

#### City Financial Incentives

#### **Building Permit rebates:**

- \$500 for Step 4
- \$1,000 for Step 5

#### **Building Permit rebates:**

- \$500 for an energy advisor and final construction blower door test (until Nov. 30<sup>th</sup> 2019)
- \$500 for Step 4
- \$1,000 for Step 5

# Zoning Incentives

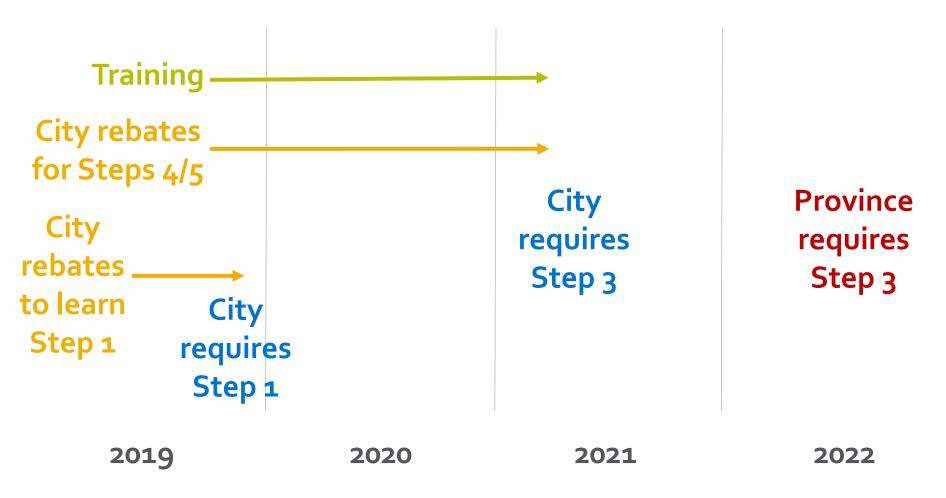
- Relax setbacks for Step 5 homes
- Relax setbacks for Step 5 homes

# Training

**Training** 

<ul> <li>Building officials training on permitting process</li> <li>Builders and trades training: understanding the permitting process</li> <li>Explore other opportunities through ESC Council, FortisBC, and Okanagan College</li> </ul>	(August 27, 2019)	Strategy (May 6, 2019)
		<ul> <li>permitting process</li> <li>Builders and trades training: understanding the permitting process</li> <li>Explore other opportunities through ESC Council, FortisBC, and Okanagan</li> </ul>

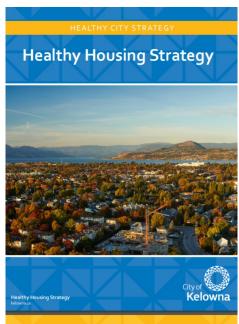
## Step Code timeline



## Delivering on our plans

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





## Council Priority: Environmental Protection

- ► Goal: adaptable in the face of climate change
  - Greenhouse gas emissions are decreasing
  - Resiliency & adaptability to climate change



## Next steps

- Consultation on Energy Step Code for Part 3 buildings
  - ► Examples of Part 3 buildings include larger apartment buildings, condos, etc.
- 2. Develop Community Retrofit Strategy



#### **Actions for Pre-2018 Housing Stock**

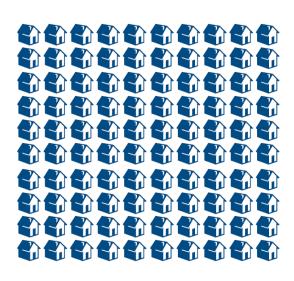
- 1. Community Retrofit Strategy (City-led 2019)
- 2. Provincial Retrofit Code (BC Gov 2024)



## Impact through Leadership







Voluntary Uptake Incentive Uptake Combined Approach – Regulation & Incentives



#### Questions?

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