



# Purpose

To inform and seek Council direction to engage on policies related to City of Kelowna objectives for energy efficient and low carbon new buildings



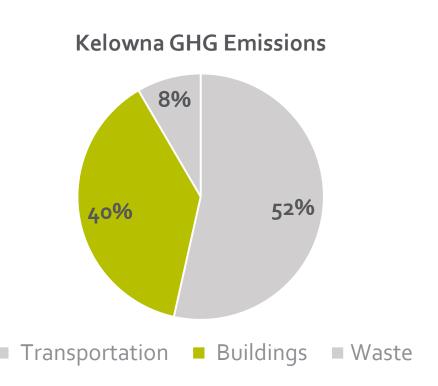
#### Previous Council Direction

# Kelowna Official Community Plan (OCP) and Climate Resilient Kelowna Strategy

"Accelerate adoption of low-emission, efficient new buildings"

#### Kelowna GHG Targets

- ▶ 40% below 2007 levels by 2030; and
- ► Achieve net zero by 2050



# Energy Step Code

Energy Efficiency Improvement



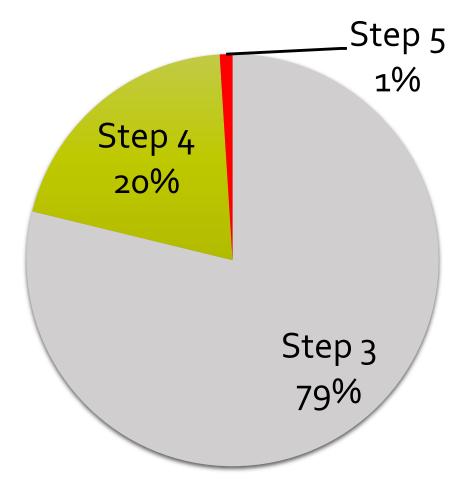
Kelowna since 2021







### Part 9 Homes: Energy Step Code Readiness



(2021-2023 dataset)

- Most homes built to base building code (Step 3)
- ▶ 21% already achieving Step 4 or better
- Step 4 is achievable for all new homes with minor improvements in building practice

#### Origin of Zero Carbon Step Code

# "By 2030, all new buildings will be zero carbon"

CleanBC Roadmap to 2030





#### **Roadmap to 2030**



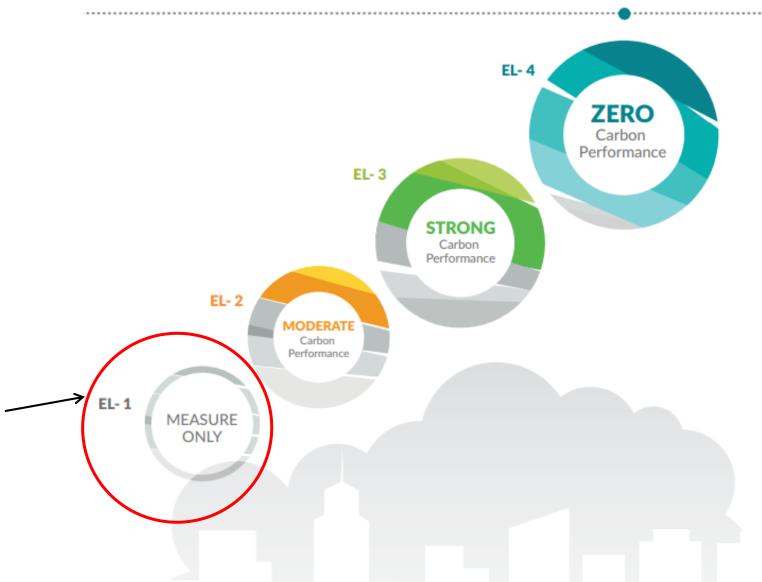
## Zero Carbon Step Code

2030

 Reduces the carbon emissions of new buildings through a series of emissions level "steps"

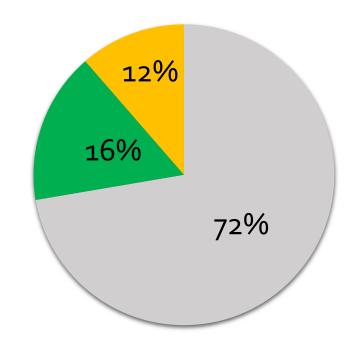
Requires gradual improvements through 2030

 Provincial implementation of EL-1 "Measure only" on March 10, 2025





## Part 9 Homes: Zero Carbon Step Code Readiness



- Base building code
- Moderate Carbon Performance (EL-2)
- Strong and Zero Carbon Performance (EL-3 and EL-4)

- Most homes built to base building code
- > 27% already achieving EL-2 or better

► EL-2 is achievable in new homes with minor improvements in building practice

(2021-2023 dataset)

A Complementary Policy Approach

Energy Step Code



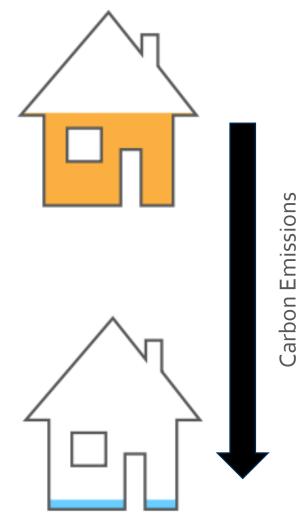
Zero Carbon Step Code

#### Focus: Lower Energy Usage

- ✓ Airtight Building
- √ Thermal Efficiency (e.g. insulation)
- ✓ Efficient Mechanical Equipment

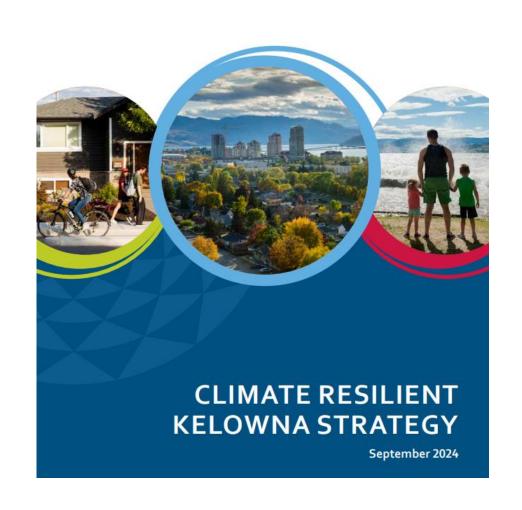
#### **Focus: Lower GHG Emissions**

✓ Lower Carbon Energy For Space and Hot Water heating



## Benefits of Engagement and Accelerated Adoption

- Significant GHG emissions reductions for lifecycle of buildings
- ► Future-proofing: avoid expensive, costly, and challenging future upgrades
- Explore community preference for regionally tailored policy
- Preparedness for when higher steps become provincially mandated (anticipated 2027)



### Staff Recommendation

- THAT Council receives, for information, the report from the Climate Action and Environmental Stewardship Department dated May 24, 2025, with respect to Energy Step Code and Zero Carbon Step Code
- AND THAT Council directs staff to engage with the community on an Energy Step Code and Zero Carbon Step Code implementation plan that accelerates adoption of low-emission efficient new buildings



Questions?