

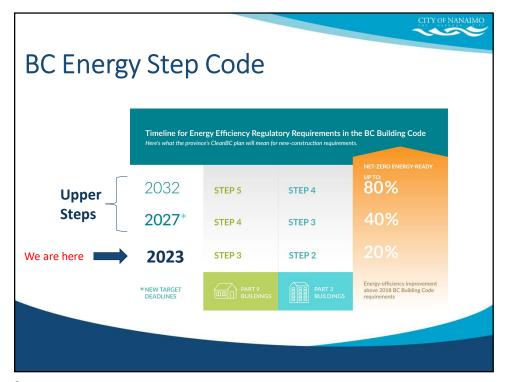
ENERGY
STEPCODE
Increased Energy Efficiency

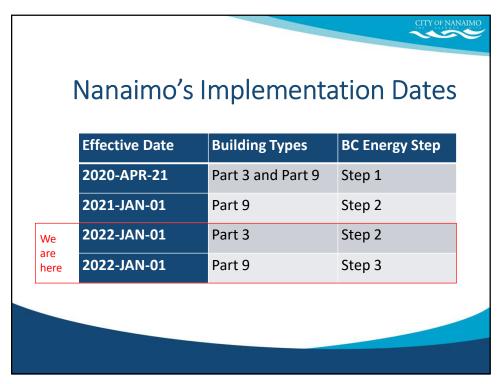
A 20% increase in energy efficiency above the 2018 Building Code

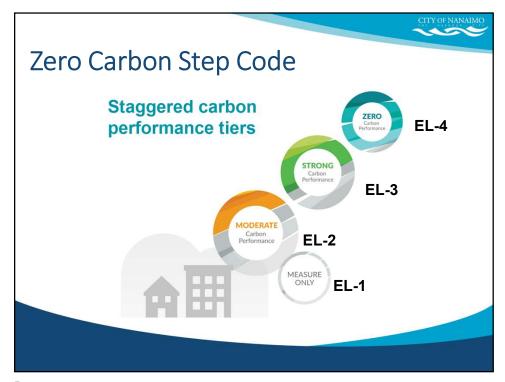
ZERO CARBON STEPCODE

Reducing Carbon Emissions

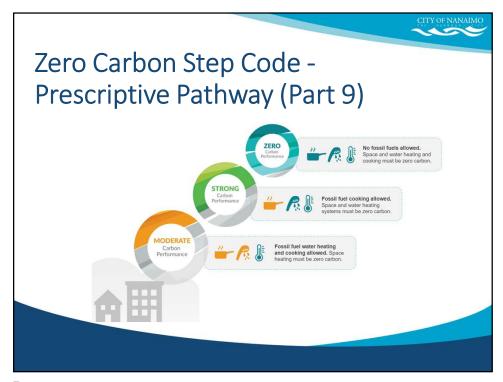
Voluntary carbon limits for Part 3 and Part 9 construction

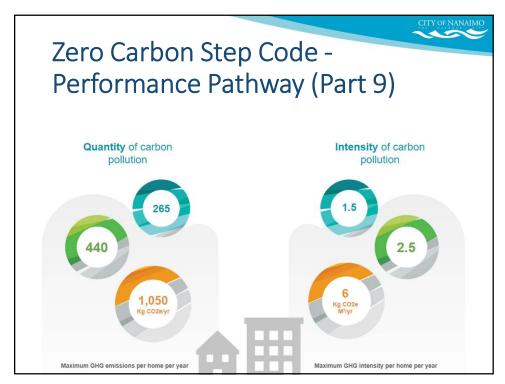


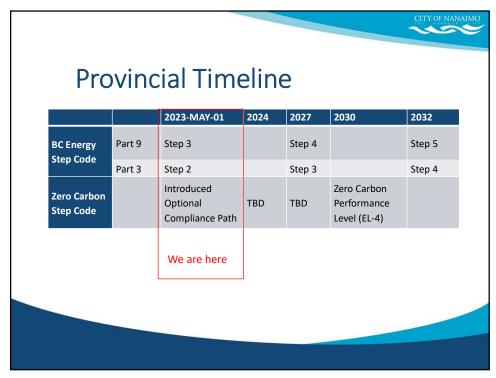


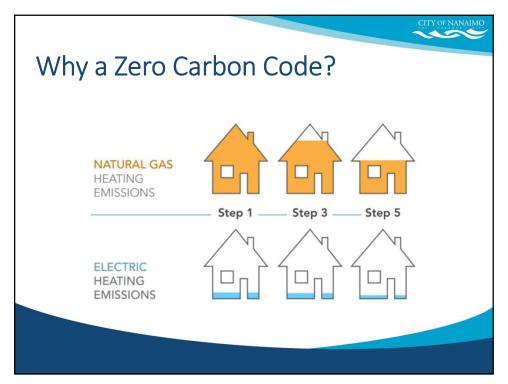






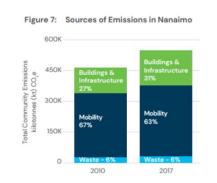




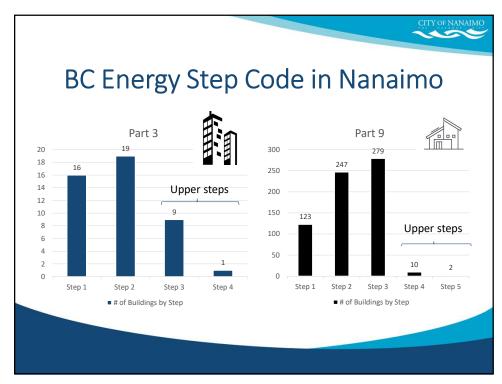


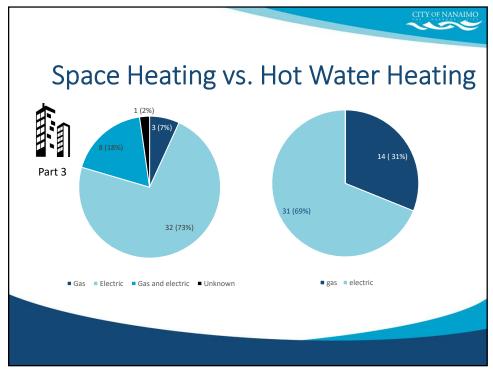
Why Zero Carbon Performance Level (EL-4)?

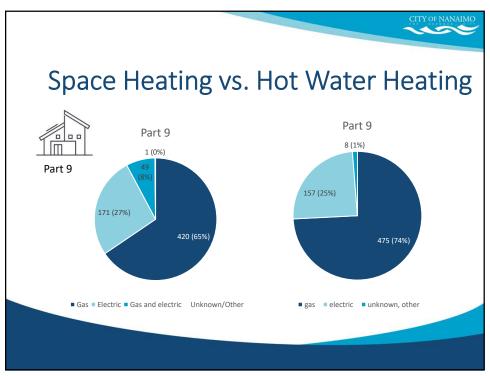
- Meet City's climate goals
- Buildings accounted for 31% of Nanaimo's emissions (2017)
- Net emissions reductions challenging to achieve while the City grows

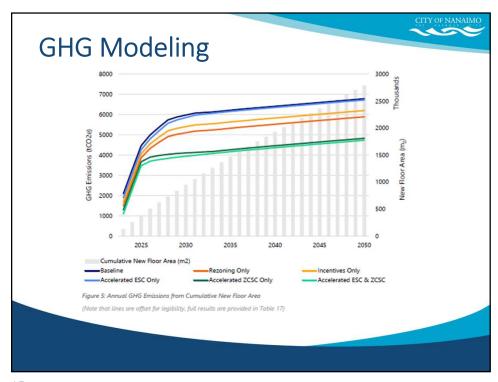


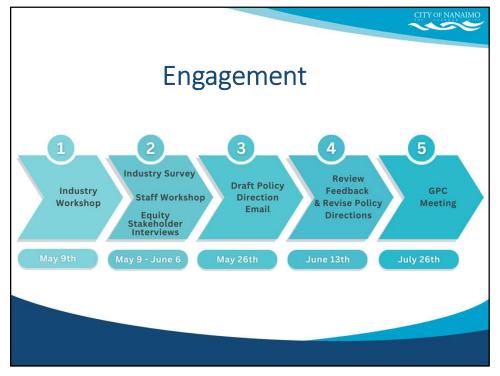
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Engagement Results

- Support for emissions reductions and energy efficiency improvement
- Incremental step changes are challenging
- Fewer changes even if it means accelerating the timelines
- Desire for consistency among jurisdictions
- Need for homeowners awareness and education

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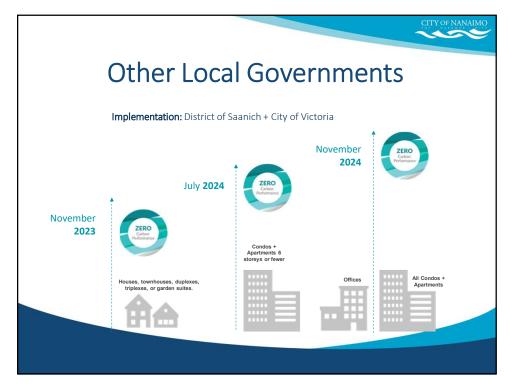


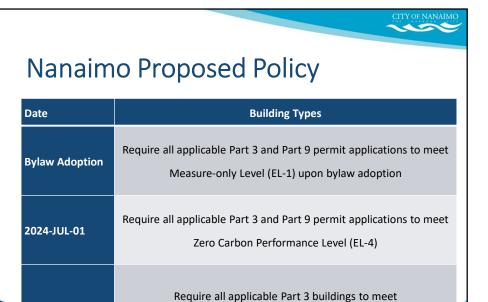
Engagement Results

- Zero Carbon Step Code
 - Concerns about grid capacity and power reliability
 - Industry capacity or cost less of an issue
- Energy Step Code
 - Industry capacity not ready for reaching the top step by 2025 but going to the next step possible
 - Cost no financial incentive to build to the top step



- Top Level of Zero Carbon Step Code (ZCSC)
 - Capital cost increase minimal
 - Utility cost vary
 - Cost of future retrofits could be significant
- Top Step of Energy Step Code (ESC)
 - Capital cost increase higher
 - Lower utility cost





Step 3 of the Energy Step Code

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2026-JAN-01



Next Steps

- Bring the Building Bylaw amendments;
- Support education, training, and capacity building;
- Educate homeowners;
- Review and update policies and guidelines;
- Monitor emissions reductions in new construction;
- Promote low carbon energy systems; and
- Work with BC Hydro to conduct a grid capacity analysis.