

WELCOME!

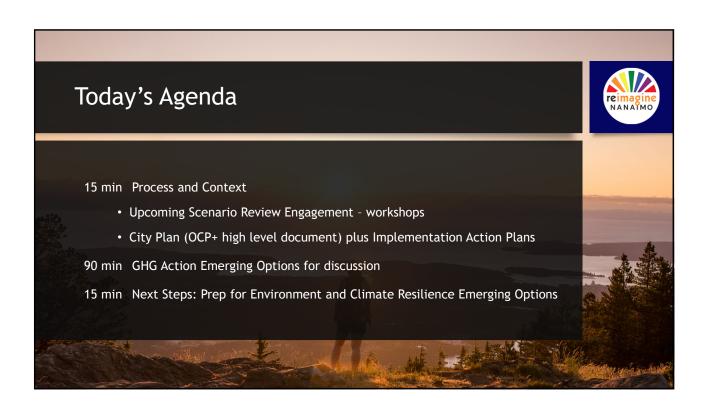
Environment Committee 2021.07.14

Our City, Our Choices.

Discussion of Climate Action Emerging Options

> Environment Committee Wednesday, July 14, 2021







Process Overview



WE ARE HERE!



Phase 1 was about sharing information and listening to the community's ideas for Nanaimo's future.



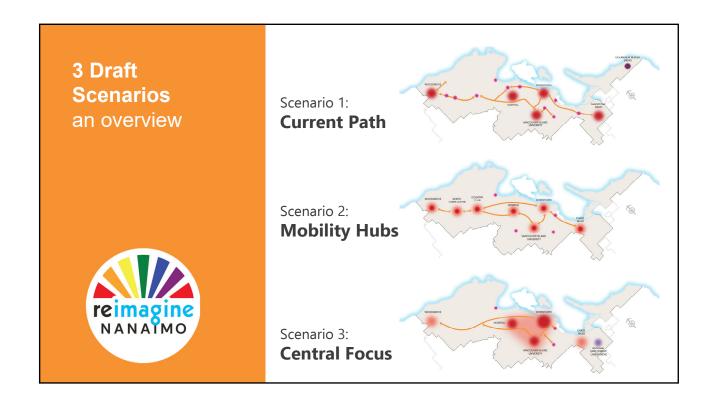
Phase 2 is focused on identifying and evaluating different options for how our community can achieve its shared goals.

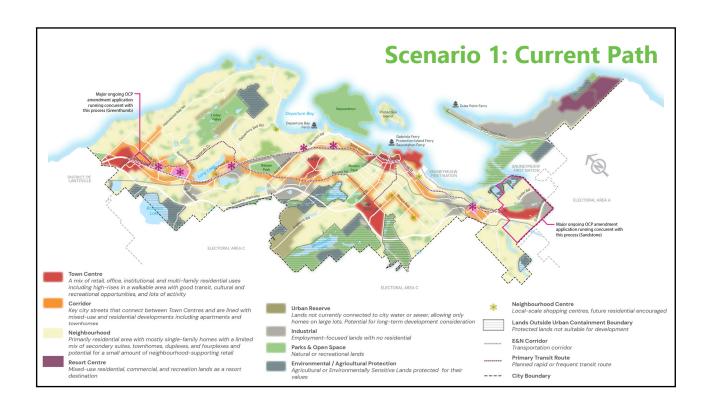


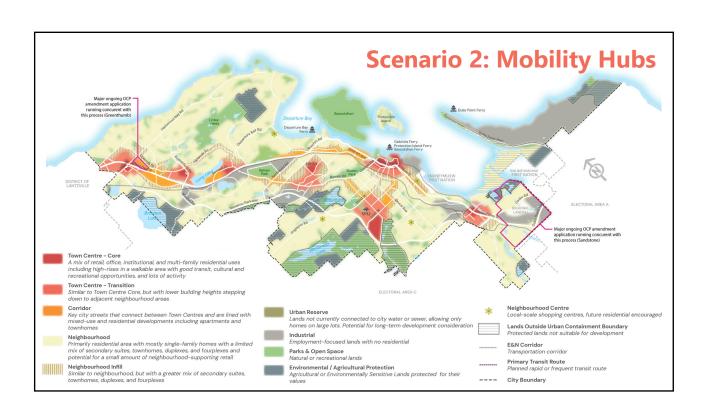
Phase 3 will develop preferred directions into plans, policies, and actions that will guide Nanaimo's future.

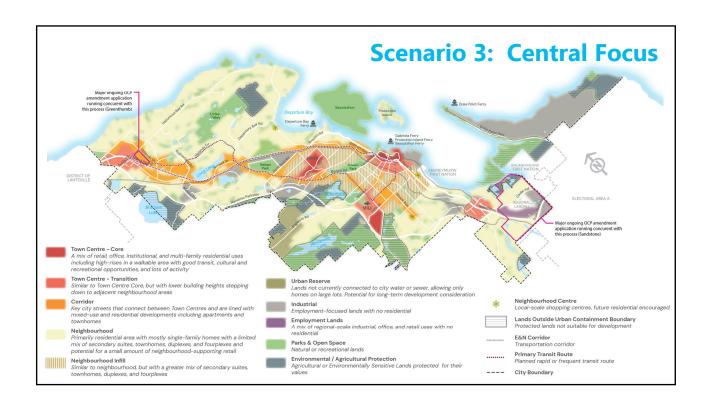
Visionary & Overarching One Integrated City Plan will provide the long-term vision for the future. It will contain Parks the high-level policy and direction for land use planning; parks, recreation, and culture; climate action; and Climate Recreation Action & Culture Plan Plan active transportation among other key policy directions. Official Active Community Transportion Plan Plan reimagine NANAIMO Key Focus Strategy Area Plans Documents Where (e.g., Economic Development Strategy, Water Supply Strategic Plan) Focused & Detailed Supporting Action We're Plans & Strategies will focus on shorterterm actions and recommendations that Going provide more detailed direction and action-oriented strategy on different topics. These plans may be updated more

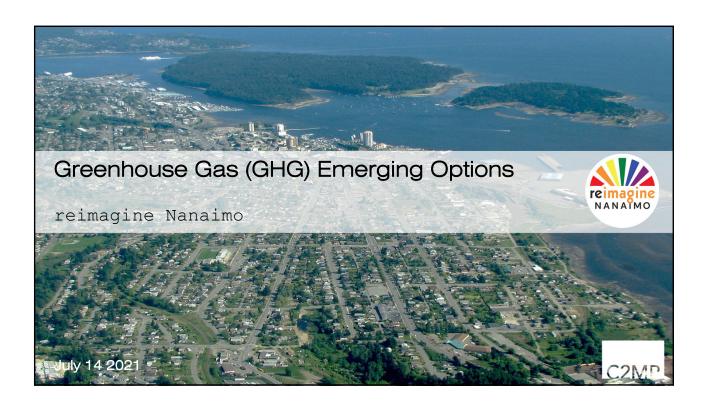












Nanaimo has committed to:

Reduce greenhouse gas emissions **50**%* from 2010 levels by 2030

Reduce greenhouse gas emissions 94%* from 2010 levels by 2050

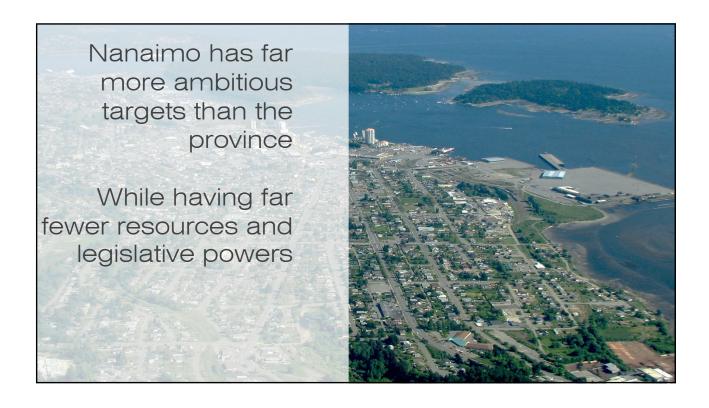


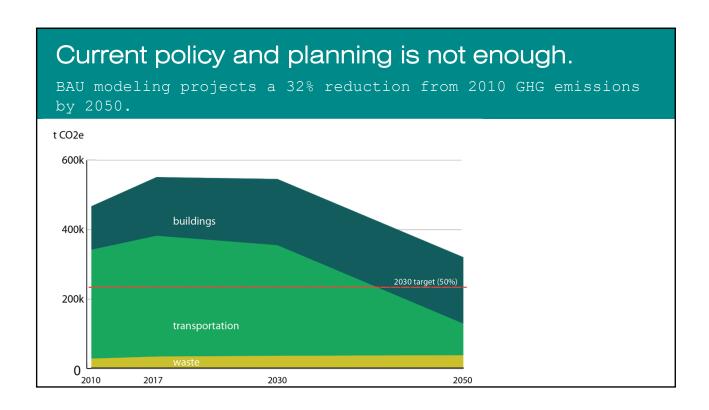
While BC has committed to:

Reduce greenhouse gas emissions 40%* from 2007 levels by 2030

Reduce greenhouse gas emissions 80%* from 2007 levels by 2050







How Aggressive does Nanaimo want its GHG policies to be?

Current

Moderate

Aggressive



Current (+) Policy

Fully within Municipal Powers

Inexpensive

Unlikely to meet GHG targets without substantial Federal/Provincial Intervention Pushes current policy

Somewhat within Municipal Powers

Moderate Cost

Increases chance of meeting target; fully meeting them remains unlikely Assertive Demands on Residents & Businesses

Push boundary of traditional municipal powers

High Initial Cost

Better chance to meet target, will still require Federal and Provincial action

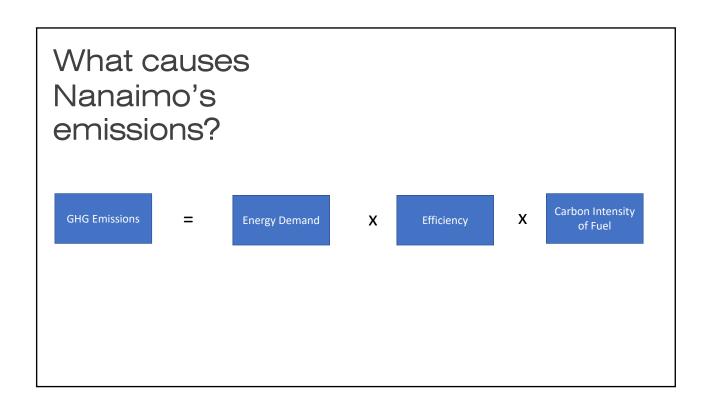
What causes Nanaimo's emissions?

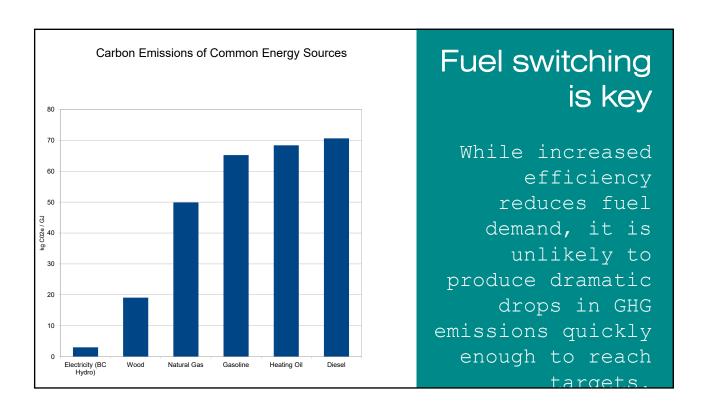
Burning of fossil fuels by residents is primary driver:

gasoline/diesel for
vehicles

natural gas/oil for heating/hot water





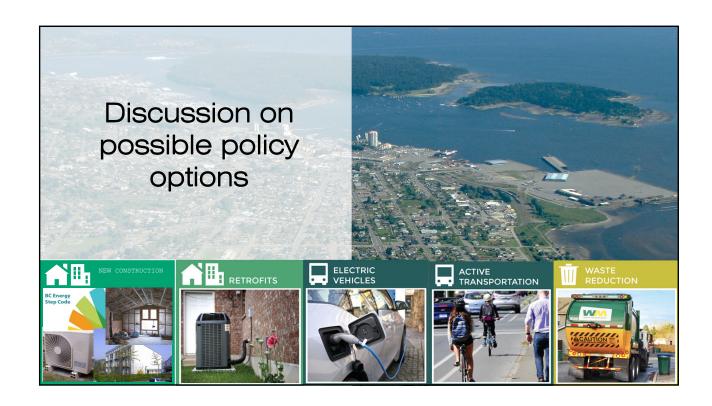


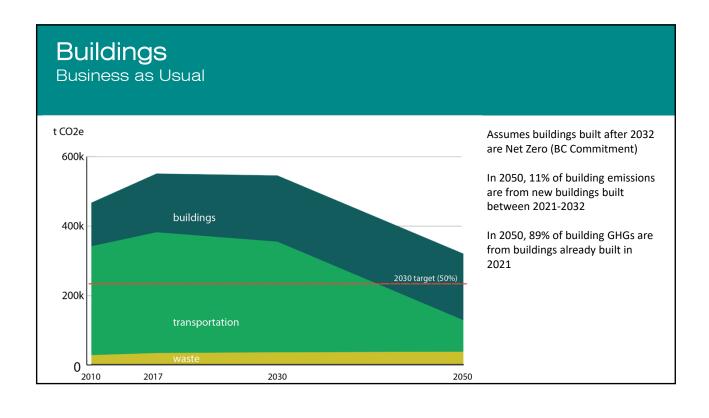
Renewables don't always reduce GHG emissions.

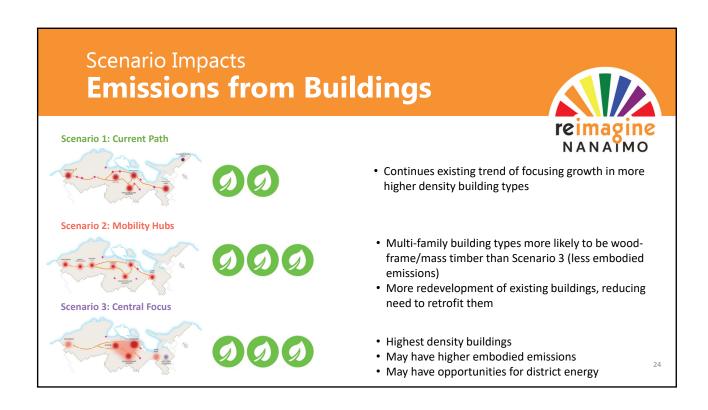
Nanaimo has access to low-emission hydroelectricity

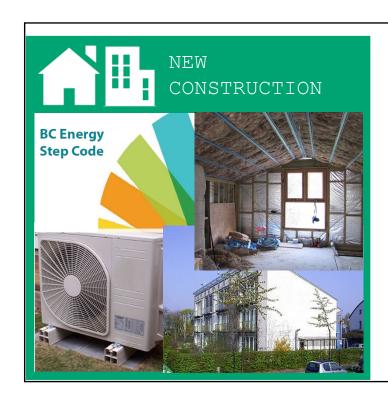
Replacing grid electricity with renewables in BC doesn't significantly reduce GHG











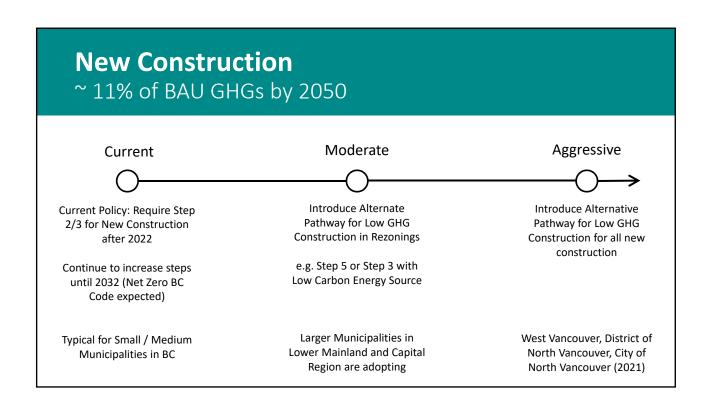
BC Building Code Net Zero by 2032

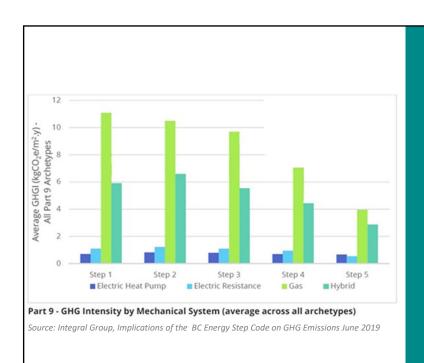
10,000 new units expected before 2032

85%+ use natural gas

Nanaimo's Step Code requires 10-30% more efficient than BC Building Code

All buildings being built now will need to be retrofitted by 2050 to reach target





Alternative Pathway for Low Carbon Systems



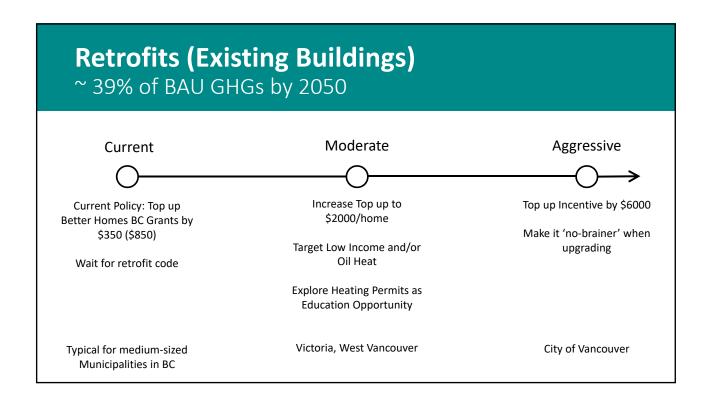
>65% of existing building stock will still exist in 2050

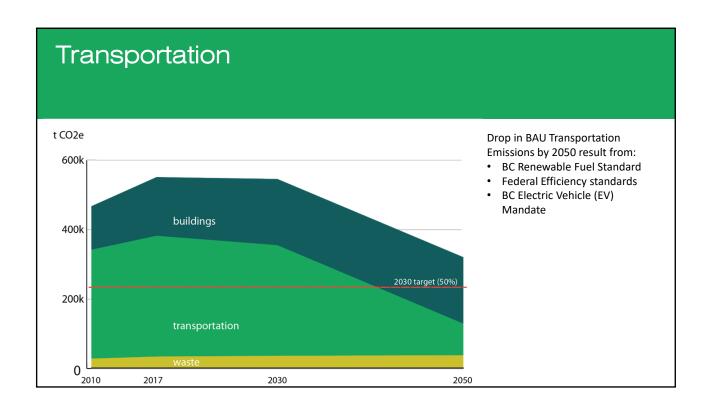
Current trends see electric baseboard replaced by natural gas, increasing GHG emissions

Difficult for local governments due to limited powers

Education and Incentives are key

To meet 2030 targets, ~ 25% housing units need to have fossil fuel systems replaced with zero carbon system





Scenario Impacts Emissions from Transportation









Scenario 2: Mobility Hubs





Scenario 3: Central Focus





- · Builds on existing policies and trends
- Moderate densification along corridors and town centres occurring to support shifting historic patterns of dispersed homes and services that encourage vehicle trips
- Services distributed across hubs; may reduce transportation demand by locating daily needs near more homes (including those already existing) allowing for more biking/e-bikes and transit
- Concentrated services, jobs and homes in centre
- May lower vehicle trips for residents of centre
- · May result in more vehicle usage for others

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Transportation Plan targets 24% of trips by walking / biking / transit by 2041 (up from 12%)

Draft targets reduction in distance driven by 29% per person by 2041

If targets are met, GHG reduction of 17% by 2050 (offset by EV reduction)

Equity, Health and Community
Co-benefits

Active Transportation

Current

Moderate

Aggressive



Continue to Implement Transportation Plan

Incremental Pedestrian + Cycling Improvements

Reduce Parking Requirements for New Construction / Car share

Typical for medium-sized Municipalities in BC Increase Spending to accelerate completion of Active Transportation Network

Invest in end of trip Facilities

Prioritize Signals for Transit

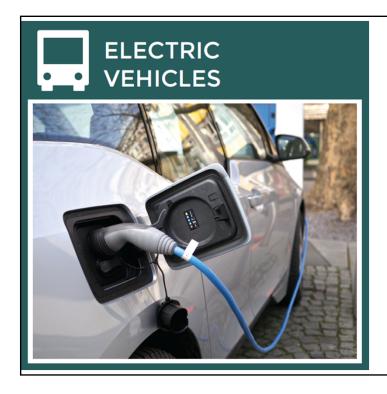
Victoria, Saanich

Reallocate Road space from Parking to Active Transportation / Transit

Dedicate road space for Transit – ensure Transit is faster than private vehicle

Remove Parking Minimums

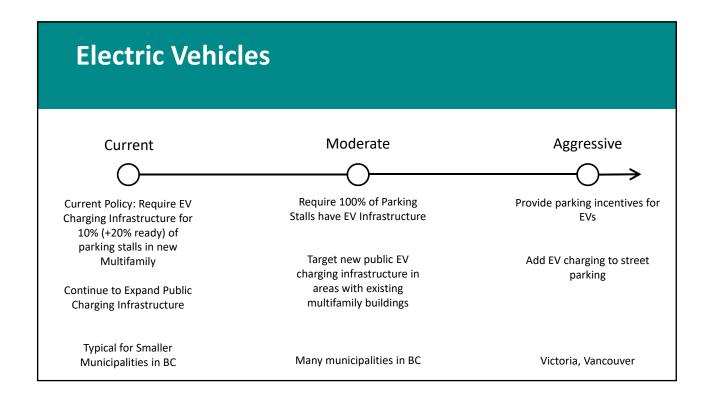
Edmonton, Vancouver

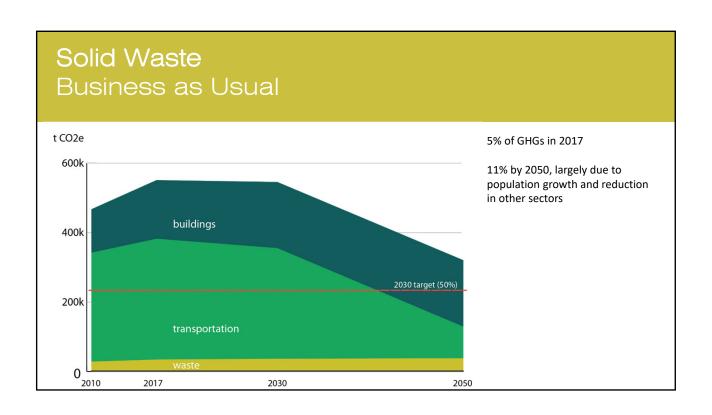


0.9% of Vehicles in Nanaimo are EV (December 2020)

Projected to grow to 12% by 2030, despite mandate for 30% EV Sales

80% of 2018 Transportation Emissions from Personal Vehicles

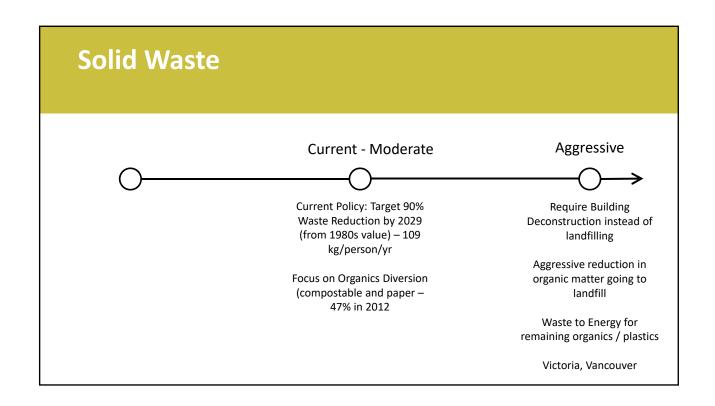


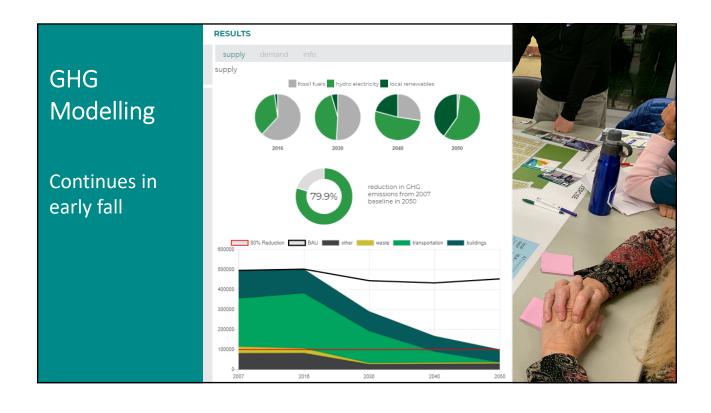


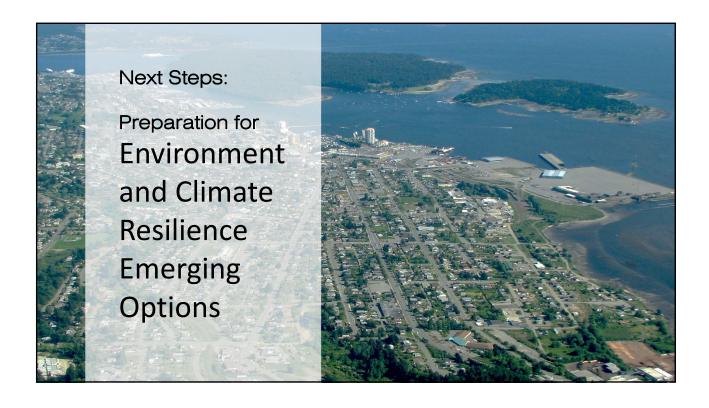


Key driver of GHGs
from waste is
decomposition of
organic matter in
landfill

Diversion to composting or methane capture main solutions







Areas of Climate/Environmental Focus



Climate Mitigation: GHG targets & trends (July 14, 2021 meeting)

Climate Adaptation: flood / rainfall / drought / heat / slope stability

Watersheds: water quality & quantity

Habitat conservation & restoration

Urban forest & vegetation cover, urban agriculture

Potential Integrating Options

Phase 2 | Overview







Launched | June 28

Launch | July 12

Phase 2 | Closes September 20

Draft Foundations





Launched | June 28

Seeking Input On:

Draft Foundation
Draft Goals
Draft Indicators

Exploring Scenarios





Option 1 | Workshop Series

Option 2 |

Self-Guided Workshop

Workshop Alternative | MetroQuest Platform



REGISTRATION

OUR CITY, OUR CHOICES SCENARIOS WORKSHOP SERIES

Would you like to participate in a lively, interactive discussion about the future of our city? We are offering eight online **Our City, Our Choices Scenarios**Workshops at different times of the day - we're hoping one works for you! The information and agenda will be the same for all meetings.

