

# SURVEY GUIDE



Shape  
the  
Climate &  
Environment  
Strategy

**city**  
of north  
vancouver

Take our survey to share your feedback.

[LETSTALK.CNV.ORG/ENVIRONMENT](https://letstalk.cnv.org/environment)

## Shape our City's Climate and Environment Strategy!

The City of North Vancouver is developing a *Climate and Environment Strategy (CES)* to eliminate carbon pollution and promote a healthy environment. Our new strategy will be the playbook for planning and making decisions on climate and environment today and over the next decade.

In this guide you will learn about the City's role in tackling climate change, protecting our environment, and how you can be involved in shaping our future. Your input will help develop a draft Strategy that will bring together previous planning and policies into a single, cohesive plan with implementable actions.



### Learn

- ▶ Read the information in this Survey Guide
- ▶ Prefer a printed copy? Download and print at the web address below





### Share

- ▶ Share your feedback on the draft vision, goals, and strategies for climate and environment
- ▶ Questions? Send us an email using the contact information to the right



### Submit

- ▶ Submit online or email, mail, or drop off your input to the City by November 26 at 4 pm
-  [environment@cnv.org](mailto:environment@cnv.org)  
 141 W. 14th St.,  
North Vancouver, BC  
V7M 1H9  
Attention: CES

## LETSTALK.CNV.ORG/ENVIRONMENT

Do you know someone else who might be interested in helping shape our City's Climate and Environment Strategy? Please spread the word!

**Deadline for input is November 26, 2021 at 4:00 pm.**

*Need this Survey Guide translated? Contact us at the details above.*





*The latest report from the United Nations Intergovernmental Panel on Climate Change (IPCC) provides new estimates that our world is on track for exceeding a critical temperature increase threshold of 1.5° Celsius by mid-century.*

*Higher global temperatures could significantly impact our health, emergency services, neighbourhoods, local economy, food security, water supply, and environment.*

*We need to take action.*



Our climate is changing at a rapid and unprecedented rate. We're seeing the impacts of these changes more and more every year. Hotter, drier summers, poor air quality from wildfires, and more intense storms are a new normal.

At the same time, we are seeing loss of habitat, rapid decline of species, and threats to food production due to development, exploitation of natural resources, and climate disruption.

A healthy climate and environment are essential for human existence and our quality of life. We need immediate and significant reductions in carbon pollution to limit warming and mitigate severe and potentially irreversible effects of climate change.

With careful planning, we have many opportunities to take action and create a resilient and sustainable City where everyone thrives.



**The climate we experience in the future depends on our decisions now.**



— IPCC presentation on the recent Sixth Assessment Report

## A new pathway

To make progress, we need strong actions that reflect current scientific research, public concerns and priorities, and evolving best practices.

The Climate and Environment Strategy will include:

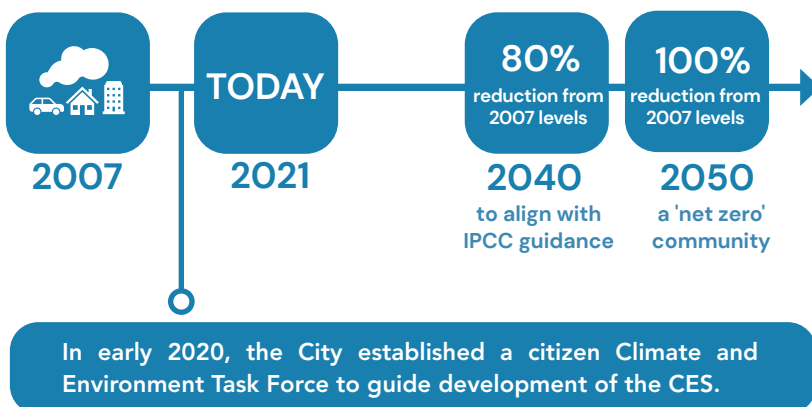
- ▶ a **vision** for a resilient and sustainable future
- ▶ **goals** to help us support the vision and respond to the climate and nature crises
- ▶ **strategies** to cut our carbon pollution and promote a healthy environment

The CES will align with the City's Official Community Plan and build off existing City plans and policies for climate and environment.

## New targets

In February 2019, based on IPCC guidance, the City adopted new community-wide targets to cut our carbon pollution:

- ▶ 80% reduction below 2007 levels by 2040
- ▶ 100% reduction or net zero carbon pollution by 2050



## Our City as a Leader



Rain gardens installed across the City since 2004



Energy efficient requirements for construction since 2011



Stormwater management controls required for all new developments



One of the lowest per capita garbage disposal rates in the region (organics collection since 2012)



EV charging requirements for all new buildings



4,000 trees planted across the City over the last three years

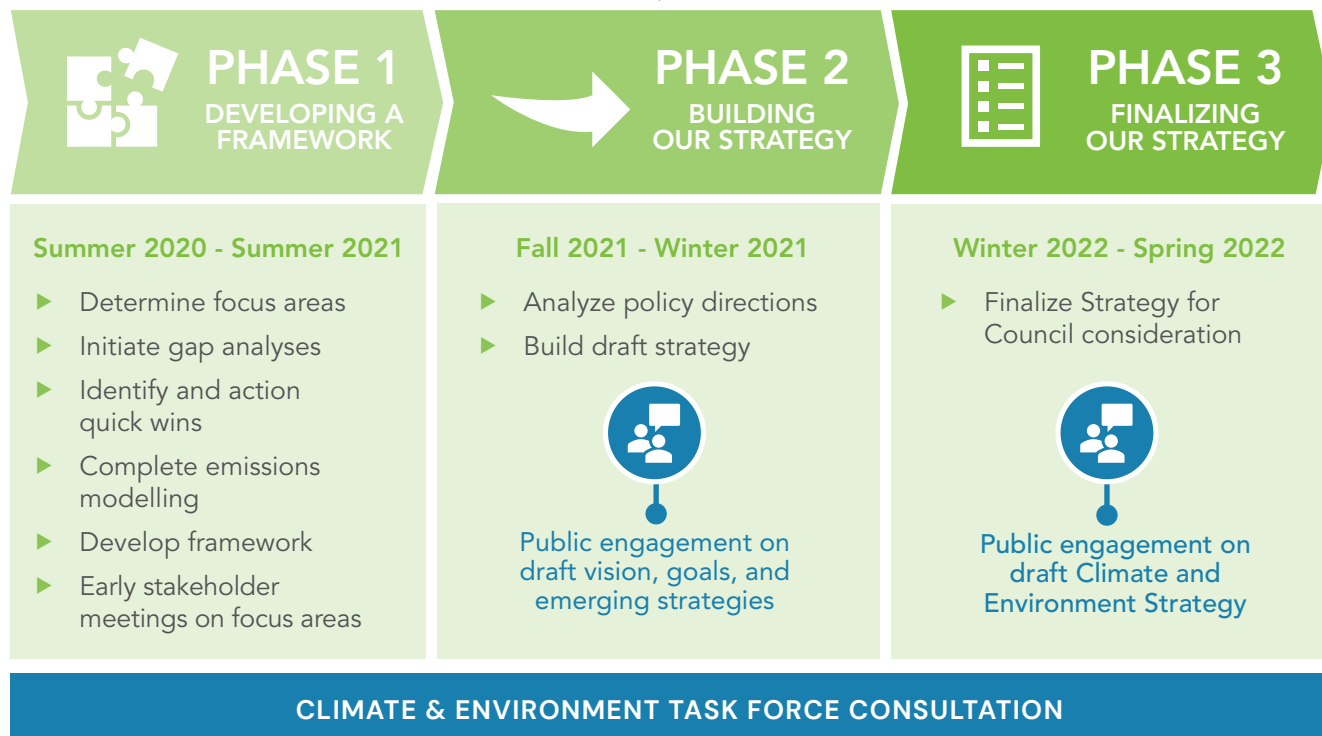


Low carbon requirements for new homes starting in 2021



BC's first E-bike share (in collaboration with North Shore municipalities)

## Process



## Equity and reconciliation

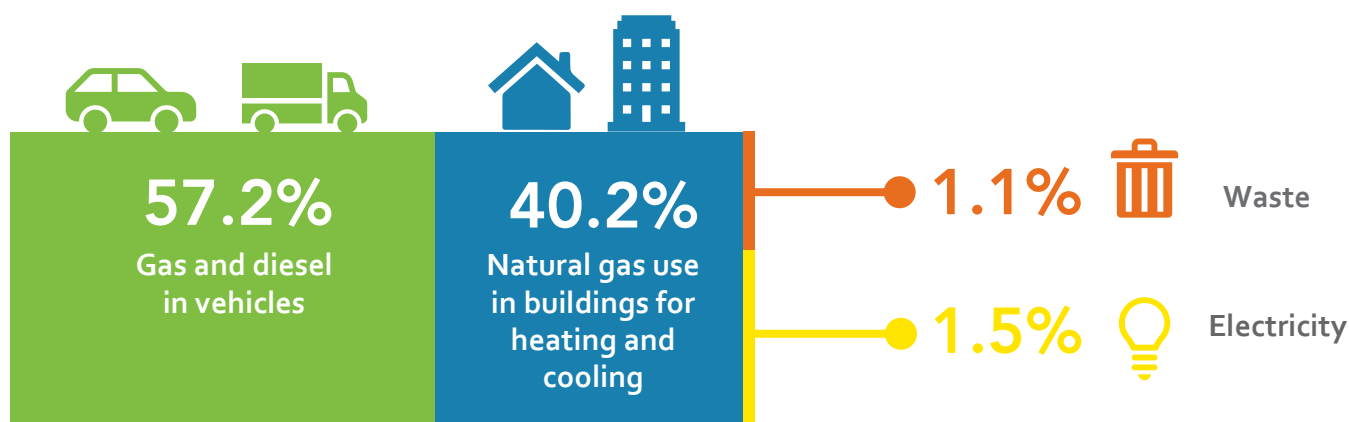
Climate change impacts some people more than others. Locally and globally, people facing systemic discrimination, poverty, and lack of services are those most affected by climate change.

As we transition towards a low carbon community, we must ensure that we are equitable in applying solutions so that the benefits of a greener economy and a cleaner environment are shared by everyone.

The City of North Vancouver is located within the unceded Traditional Territories of the xʷməθkʷýəm (Musqueam), Sḵwxwú7mesh (Squamish), and sə́lilwətaʔt (Tsleil-Waututh) people who have inhabited and sustained themselves with these lands since time immemorial, and continue to do so today. Finding a path to resiliency and sustainability through the Climate and Environment Strategy requires learning from and working with the local Nations and urban Indigenous people.

## Our carbon pollution

Carbon pollution in our City is creating local impacts and contributing to global warming. But where does it come from? The majority comes from burning fossil fuels (gas, diesel, natural gas). What are the impacts?



### Sea Level Rise & Storm

Rising temperatures are warming the ocean and causing sea levels to rise. Flood risk is exacerbated by sea level rise particularly during storm events such as king tides which are becoming more frequent.



### Rising Annual Temperatures

Globally, average temperatures are increasing each year due to carbon pollution. This summer saw record-breaking heat waves in BC.



### Air Quality

Particulate matter in our City has reached unhealthy levels for multiple days in four of the last five summers due to smoke from wildfires in the region.



Our carbon pollution has decreased over the last 15 years, even with a growing population. However, to reach our targets, we have to cut our carbon pollution even faster.

## Our natural environment

Two important factors are indicators of ecological health and our resiliency to climate-related impacts: our tree canopy and our impervious surfaces.



Amount of our City covered by tree canopy

Our tree canopy cover (25%) is below the regional average, but higher than some jurisdictions of similar density. Increasing our tree canopy can provide many benefits including shading and cooling, carbon storage, stormwater management, habitat enhancement, and human health. We can enhance our tree canopy by planting, maintaining, and protecting trees on our properties, parks, and streets.

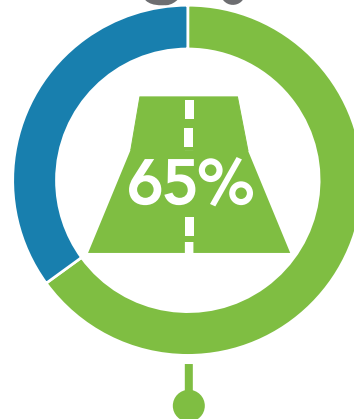
### What is a tree canopy?

Our tree canopy is all the above-ground cover, stems, branches, and leaves of trees on both public and private land. Our canopy indicates the extent of our urban forest and all the ecosystem services it provides.



### What are impervious surfaces?

Impervious surfaces, such as paved roads and buildings, are surfaces that do not allow water to soak into the ground. This can lead to higher urban temperatures ('heat islands'), more stormwater runoff, increased pollutants into our water systems, and impacts to stream and wildlife health.



Amount of our City surfaces that are impervious

Our impervious surfaces (65%) is higher than the regional average and comparable to jurisdictions of similar density. Best practices for stormwater management in our streets, homes, and public areas can help manage the quantity of our rainfall runoff, improve water quality, and enhance our environment. In recent years, the Mackay Creek has supported healthy runs of Coho and Pink salmon due to the City's actions of implementing stormwater management and habitat improvement projects.

## City actions to reduce impacts



### REGULATE NEW CONSTRUCTION

Ensuring new developments are energy efficient, low carbon, and green



### ADVOCATE TO SENIOR GOVERNMENT

Advocating to both the provincial and federal governments for stronger climate and environmental policies



### BUILD COMPACT COMMUNITIES

Designing neighbourhoods so housing is close to daily needs and transit can encourage sustainable modes of transportation



### REGULATE WATER USE

Enforcing regional water conservation regulations



### PROVIDE MORE WAYS TO GET AROUND

Providing more infrastructure and amenities for active transportation and transit and installing public EV charging stations for cars



### GREEN THE CITY

Planting trees and native plants in City parks and boulevards



### PROTECT SENSITIVE HABITATS

Protecting sensitive ecosystems through development permit areas as well as protecting and restoring habitat areas on City land



### PROVIDE REBATES AND INCENTIVES

Providing rebates and other financial incentives to enable residents to switch to low carbon technologies



### IMPROVE CITY OPERATIONS

Ensuring our buildings, operations, and City fleet are low impact to reduce carbon pollution



### IMPROVE WASTE MANAGEMENT

Improve collection of organics for all homes and providing opportunities for recycling in public spaces



### PROVIDE PUBLIC EDUCATION

Raising awareness about climate and environment issues and educating the public on actions they can take in their daily lives





# WHAT CAN YOU DO?

## 7 actions to reduce your impacts



1



If you need to drive, consider using car-share or switch to an electric vehicle

2



Eat less meat and dairy products and try plant-based proteins like lentils and tofu

3



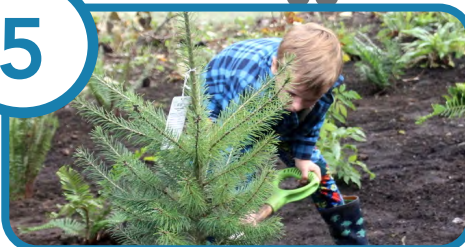
Reduce waste by repairing broken things, buying second-hand, and sharing

4



Switch to an electric heat pump to heat your home

5



Plant native plants, climate-resilient tree species, and your own food in your garden

6



Volunteer with the City Park Stewards to help restore natural areas and biodiversity

7



Walk, ride a bike, or take transit instead of driving



Go to [cnv.org](https://cnv.org) and search 'jump on a new heat pump' to learn about rebates and making the switch.

## VISION



A resilient and  
sustainable City  
where everyone thrives

## GOALS NEEDED TO ACHIEVE OUR VISION



### GOAL 1:

We act with  
urgency to end  
carbon pollution

### GOAL 2:

We live in  
reciprocity  
with nature

### GOAL 3:

We are  
influential and  
accountable together

## STRATEGIES TO ACHIEVE OUR GOALS

### Our Pathway to Net Zero

- ▶ Retrofits
- ▶ District Energy
- ▶ New Buildings
- ▶ Zero Emission Vehicles
- ▶ Waste
- ▶ Carbon Capture

### Resilient Ecosystems and City

- ▶ Natural Systems
- ▶ Water Conservation
- ▶ Water Quality
- ▶ Urban Forest
- ▶ Resilient Development
- ▶ Citizen Resilience

### Empowered Choices and Awareness

- ▶ Low Impact Choices
- ▶ Circular Economy
- ▶ Embodied Carbon
- ▶ Construction Waste
- ▶ Urban Agriculture

### Leading by Example

- ▶ Civic Buildings
- ▶ Fleet
- ▶ Procurement
- ▶ Leadership



# DRAFT VISION & GOALS

Our vision sits atop the draft framework pyramid to act as an aspirational guide to the plan, supported by goals and strategies. It paints a picture of a healthy, green, and low carbon City that is well-equipped to navigate a rapidly changing future for generations to come, and where the benefits of a clean environment are shared by everyone.



## THIS MEANS WE...

- ▶ Commit to creating a more sustainable future for everyone
  - ▶ Understand we have a limited window of opportunity to reduce carbon pollution to avoid severe or irreversible impacts
  - ▶ Use effective actions to help us meet our carbon pollution reductions targets
  - ▶ Act, along with other cities in the world, as a leader in reducing carbon pollution
- ▶ Understand that our health, wellbeing, and prosperity is linked to a healthy natural environment
  - ▶ Give back more than we take from the natural systems that support us
  - ▶ Respect our lands and what they provide to us with better planning, regulating, and caring
  - ▶ Continue to build our resiliency
  - ▶ Honour our land and its history of stewardship by Indigenous people
- ▶ Are capable of making transformative change despite being a small City
  - ▶ Can work with partners to help make changes in our community
  - ▶ Support public education and communication to reach our goals
  - ▶ Will adopt sustainable practices within our organization while encouraging both individual and community efforts

## Share your feedback!

Now that you have some background about the Climate and Environment Strategy, we'd like to hear your feedback. On the next page, share what you think about the draft vision and goals. Once you have provided your feedback, the following section outlines the draft strategies that will help us make progress towards our goals, and opportunities for you to provide input.

# WHAT DO YOU THINK?

1

Do you think the draft vision, "**A resilient and sustainable City where everyone thrives,**" will help the City address our challenges and opportunities for climate and environment?

- ☐ **Support** – It's the right vision
- ☐ **Room for Improvement** – Some changes needed
- ☐ **Do Not Support** – Big changes needed

Please provide any comments that support your answer.

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2

Looking at the draft goals, rate how well you think each one will help us achieve our vision for, "**A resilient and sustainable City where everyone thrives**"?

DRAFT GOAL	NOT WELL					VERY WELL				
	1	2	3	4	5	1	2	3	4	5
<b>GOAL #1:</b> We act with urgency to end carbon pollution	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>GOAL #2:</b> We live in reciprocity with nature	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>GOAL #3:</b> We are influential and accountable together	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Please explain your response.

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*The City is collecting your information in accordance with section 26 of the Freedom of Information and Protection of Privacy Act. The information will be used to help shape the Climate and Environment Strategy. A summary of the results of this survey will be shared with City staff, partners, and the community. Any personal identifiable information will be removed prior to publication. If you have any questions about the survey or how the City is collecting your information please contact the Planning and Development Department at [environment@cnv.org](mailto:environment@cnv.org) or 604-983-7357.*



# OUR PATHWAY TO NET ZERO

## did you know?

Did you know natural gas is a fossil fuel? 40% of the carbon pollution in the City comes from burning natural gas to heat space and water in our homes and buildings.



### What is district energy?

District energy is a centralized heating system that distributes thermal energy through a network of underground pipes and mini-plants to multiple buildings in an area.



### What is a heat pump?

Heat pumps are a high efficiency appliance that uses electricity to heat your home in the winter and cool it in the summer. A heat pump can fully replace your existing heating or hot water system to significantly reduce a home's carbon pollution. It also improve indoor air quality!



Lonsdale Energy Corporation (LEC) is the City's award-winning district energy system that has been in operation since 2003. The system uses a combination of natural gas boilers, ground source heat pumps, heat recovery from cooling, and solar thermal panels to heat hot water. LEC is exploring new opportunities to incorporate clean, renewable energy sources into its system including recovery of waste heat from data centres and wastewater.



## Our Pathway to Net Zero

Cutting carbon pollution from major sources in the City to achieve our interim targets and net zero by 2050.

### Why is this important?

To avoid catastrophic climate change, we have set targets to significantly reduce carbon pollution by 2040 and reach net zero by 2050. Meeting these goals will mean cutting carbon pollution from buildings, transportation, and waste in the City at an unprecedented rate and increasing our carbon capture.

# DRAFT STRATEGIES



### Accelerate low carbon building retrofits

#### Why?

- » More than 40% of carbon pollution comes from buildings, so low carbon retrofits to existing building stock will help achieve targets, improve comfort and air quality, and lower costs

#### Ideas for how we can do this:

- » Provide tools, equitable financing, and incentives for retrofits
- » Prepare for and implement BC's upcoming retrofit code
- » Promote property owner awareness of building energy and climate performance
- » Prioritize low income and rental housing upgrades



### De-carbonize district energy

#### Why?

- » Transitioning district energy to 100% renewable energy sources will reduce carbon pollution from large buildings in the City

#### Ideas for how we can do this:

- » Continue research, data sharing, and exploration of potential funding mechanisms for de-carbonized district energy
- » Optimize the performance of buildings connected to district energy by investigating commissioning services that show how energy use could be improved

3

How important is each of the following strategies for Our Pathway to Net Zero to you? Please rate each strategy from 1 to 5 stars (with 1 being not at all important and 5 being the most important).



Explain your answer:

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Explain your answer:

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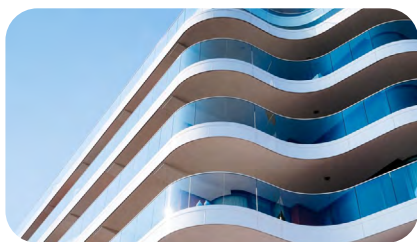
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# OUR PATHWAY TO NET ZERO



## Make new buildings net zero

### Why?

- » The buildings we construct today will be in operation in 2050 and beyond, so it is important that they are designed with low carbon systems

### Ideas for how we can do this:

- » Set a timeline ahead of the provincial timeline to increase Step Code energy efficient requirements for all new buildings
- » Help builders and developers access incentives for new low carbon buildings
- » Introduce low carbon requirements for large buildings



## Accelerate the transition to zero emission vehicles

### Why?

- » Enabling widespread, equitable access to electric vehicles (EVs) will lead to critical reductions in carbon pollution from personal vehicles

### Ideas for how we can do this:

- » Continue implementing the City's *Electric Vehicle Strategy* by pursuing partnerships with car-sharing services, supporting retrofits of multi-family buildings, and providing public education about EVs
- » Increase access to EV charging stations in priority neighbourhoods
- » Explore opportunities to provide additional support for low income residents to transition to EVs



## Reduce waste going to landfill

### Why?

- » Landfills produce carbon pollution from decomposing organic waste. We can cut carbon pollution from landfills by diverting waste through recycling and composting programs

### Ideas for how we can do this:

- » Divert more waste by strengthening the *Solid Waste Management Services Bylaw*
- » Provide public education about best practices to divert waste
- » Work with the Province to enhance *Extended Producer Responsibility (EPR)* legislation so that more products are included and designed with end of life in mind

### CONTINUED...

How important is each of the following strategies for Our Pathway to Net Zero to you?

Please rate each strategy from 1 to 5 stars (with 1 being not at all important and 5 being the most important).



Explain your answer:

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Explain your answer:

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Explain your answer:

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CONTINUED...

# OUR PATHWAY TO NET ZERO



» By enhancing our natural systems, we can increase the ability of our forests, wetlands and soils to remove carbon from the atmosphere

- » Increase our tree canopy cover
- » Protect and restore shorelines and estuaries
- » Engage with local Indigenous people to identify opportunities to enhance or re-establish native species



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Do you have any ideas about HOW any of the Our Pathway to Net Zero strategies could be implemented to make them work for you? Write them here.

[illegible]



# OUR PATHWAY TO NET ZERO

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**What actions are you willing to take to reduce carbon pollution in our City? These could be actions you are already doing! Check all that apply.**

- ☐ Use sustainable transportation (e.g., bike, EV, transit)
  - ☐ Conserve energy (heat, lights)
  - ☐ Use electricity to heat your home
  - ☐ Retrofit your home/property to be more energy efficient
  - ☐ Live in a neighbourhood close to daily needs
  - ☐ Recycle and compost
  - ☐ Volunteer or advocate for climate solutions
  - ☐ Learn more about our climate crisis
  - ☐ Other:
- 

6

**What is the #1 thing that would help you switch to a heat pump?**

- ☐ More information about heat pumps
  - ☐ More rebates for equipment and installation
  - ☐ Retrofit financing for equipment and installation costs
  - ☐ Increased access to skilled heat pump contractors
  - ☐ Support for tenants
  - ☐ Lower electricity prices
  - ☐ I wouldn't consider switching unless it was a requirement
  - ☐ Other:
- 

7

**What is the #1 thing that would help you switch to an electric vehicle?**

- ☐ More information including a test drive
  - ☐ More rebates for vehicles
  - ☐ More rebates for charging stations
  - ☐ Support for tenants
  - ☐ Support for charging station installations in multi-family buildings
  - ☐ More public charging infrastructure
  - ☐ Penalties for driving a gas-powered vehicle
  - ☐ N/A – I don't drive or own a vehicle
  - ☐ Other:
- 

8

**What is the #1 thing that would help you to walk, cycle, or use a scooter for short trips and daily needs?**

- ☐ Having more daily needs close to where I live
  - ☐ A connected network of protected bike lanes
  - ☐ Safer sidewalks
  - ☐ Better accessibility for people with disabilities
  - ☐ More beauty – like trees and greenspace – along the route
  - ☐ Nothing. I'm not able or not interested in walking/cycling more
  - ☐ Other:
-

# RESILIENT ECOSYSTEMS & CITY

## What is a watershed?

A watershed or a catchment area is the area of land that drains all the rainfall and streams to a common outlet into the ocean. That's why careful management of our watersheds can help protect our streams, fish habitats, and oceans.



## did you know?

There are four watersheds and one catchment area in the City: Mackay Creek, Mosquito Creek, Wagg Creek, and Lynn Creek, and Lower Lonsdale. All four watersheds have fish-bearing streams, including some of the few remaining salmon-bearing streams in Metro Vancouver. Which watershed do you live in?

## WHAT IMPACTS OUR WATERSHEDS?

- ▶ High percentage of impermeable surfaces
- ▶ Water quality issues from stormwater discharge, pollution, and spills
- ▶ Degraded habitats
- ▶ Changes to precipitation and temperatures

## What is stormwater?

Stormwater is rain that lands on rooftops, roads, and sidewalks that runs over the land and into our stormwater system instead of soaking into the ground. We can manage stormwater runoff through measures like rain gardens, permeable pavement, and planting trees.



Raingarden



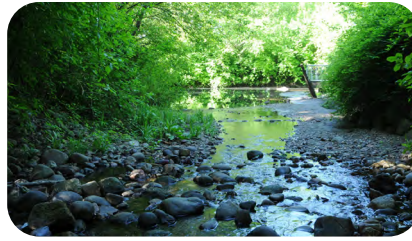
# Resilient Ecosystems and City

Preparing ourselves and our natural systems for a more resilient future in light of climate change.

## Why is this important?

We are already experiencing the impacts of climate change and we need to make sure our community, natural areas, and infrastructure are ready for our future. Healthy, biodiverse, and connected ecosystems will be able to adapt to changing conditions and improve the resiliency of our community.

# DRAFT STRATEGIES



## Enhance our natural systems

### Why?

- » The health, connectivity, and biodiversity of our natural areas provide important habitats and essential ecosystem services (e.g., clean air, pollination, carbon storage)

### Ideas for how we can do this:

- » Develop the City's first *Natural Systems Strategy* to identify actions to increase biodiversity, improve connectivity, and enhance sensitive ecosystems on public and private property
- » Engage Indigenous elders and knowledge keepers in the policy development process



## Increase water conservation

### Why?

- » By reducing potable water demand, we can minimize the strain on our water supply and cut carbon pollution from water heated using fossil fuels

### Ideas for how we can do this:

- » Promote water conservation tools and use
- » Develop guidance for landscaping to reduce irrigation needs
- » Strengthen water reuse requirements in new developments to minimize use of drinking water for non-potable end uses (e.g., toilet flushing, clothes washing)

9

How important is each of the following strategies for Resilient Ecosystems and City to you? Please rate each strategy from 1 to 5 stars (with 1 being not at all important and 5 being the most important).



Explain your answer:

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Explain your answer:

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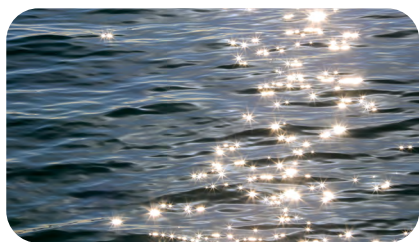
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# RESILIENT ECOSYSTEMS & CITY



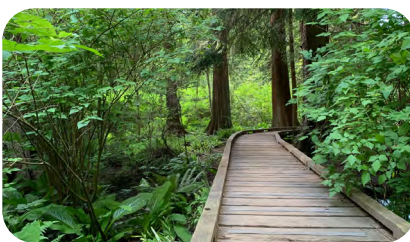
## Improve water quality

### Why?

- » Careful management of stormwater and protection of our streamside areas can improve the health of our creeks and the Burrard Inlet

### Ideas for how we can do this:

- » Enhance the use of infrastructure to capture rainwater and increase infiltration on private property
- » Provide education on the importance of riparian area protection and restoration to fish habitat
- » Encourage citizen science projects and stewardship groups



## Expand and protect our urban forest

### Why?

- » Growing a diverse, resilient, and accessible urban tree canopy on public and private lands will improve air quality, provide habitat, and enhance our community wellbeing

### Ideas for how we can do this:

- » Develop a City-wide *Urban Forest Management Strategy* with clear targets informed by new inventory data
- » Identify opportunities for increased access to urban forests
- » Ensure forest management considers traditional knowledge and relationships with other natural systems



## Make new development resilient

### Why?

- » Through low impact and sustainable building measures, we can promote ecosystem services in new development to further strengthen our resiliency

### Ideas for how we can do this:

- » Provide education, certification tools, and incentives to increase biodiversity and environmental performance
- » Encourage permeable surfaces on private property
- » Modernize and consolidate environmental development permit guidelines so they are consistently followed

### CONTINUED...

How important is each of the following strategies for Resilient Ecosystems and City to you?

Please rate each strategy from 1 to 5 stars (with 1 being not at all important and 5 being the most important).



Explain your answer:

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Explain your answer:

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Explain your answer:

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- » Preparing our community to be resilient to the adverse impacts of climate change improves our health and wellbeing

- » Provide enhanced public support during heat events (e.g., shaded spray parks, stationary and mobile water fountains, cooling centers during emergencies)
- » Prioritize interventions that reduce risk for those who are most vulnerable
- » Educate citizens on climate change and resilience preparedness

How important is each of the following strategies for Resilient Ecosystems and City to you? Please rate each strategy from 1 to 5 stars (with 1 being not at all important and 5 being the most important).



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**Do you have any ideas about HOW any of the Resilient Ecosystems and City strategies could be implemented to make them work for you? Write them here.**

[illegible]

11

What actions are you willing to take to help the natural environment in our City? These could be actions you are already doing! Check all that apply.

- ☐ Use less water
- ☐ Reduce impervious surfaces on your property
- ☐ Plant and maintain plants and trees on your property
- ☐ Prepare for heat waves and poor air quality
- ☐ Volunteer for habitat restoration projects
- ☐ Participate in citizen science programs
- ☐ Learn more about our natural environment
- ☐ Other:

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12

What is the #1 thing that would help you grow and maintain native tree and plant species or grow food, in the City?

- ☐ More information about gardening
- ☐ More training and support from experts
- ☐ Increased access to garden space
- ☐ Incentives for trees and plants
- ☐ Recognition and awards for growing native species and food
- ☐ Nothing. I'm not able or not interested in growing and maintaining native trees and plants or growing food
- ☐ Other:

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# did you Know?

Did you know that the materials we use and the goods we consume in the City generate carbon pollution in other parts of the world from their production? The food we eat and the materials used in buildings and vehicles are some of our biggest sources of carbon pollution produced outside of the City.



In Canada, low carbon alternatives like wood, mineral wool, and recycled materials are readily available for the production of homes to limit embodied carbon.

## What is embodied carbon?

Embodied carbon is the total carbon pollution released from building and infrastructure development throughout its life cycle, from extraction through construction, operation, and eventual demolition and disposal.



Food systems account for one third of our global carbon pollution. The majority comes from agriculture and land use, especially for meat and dairy production. Eating more plant-based foods and choosing locally-grown products can significantly reduce your carbon footprint.



## Empowered Choices and Awareness

Learning and taking action together to reduce our local and global ecological footprint.

### Why is this important?

Our consumer choices and individual actions have climate and environmental impacts inside and outside of the City. We need collective action by community members making informed choices to minimize the impact of the materials we use and consume and the waste we generate.

# DRAFT STRATEGIES



### Grow awareness of low impact consumer choices

#### Why?

- » Our lifestyle choices and consumer habits can have a big impact on carbon pollution

#### Ideas for how we can do this:

- » Promote awareness of high impact actions that will lower individual carbon footprints
- » Promote local goods and services
- » Subsidize sustainable choices through rebates and incentives
- » Monitor City consumption patterns and communicate findings



### Transition towards a circular economy

#### Why?

- » A linear 'take-make-waste' economy is not sustainable but a circular economy encourages continual use of resources to eliminate waste and reduce our ecological footprint

#### Ideas for how we can do this:

- » Integrate circular economy principles into long-term planning strategies
- » Encourage reuse and repair initiatives within the community
- » Advocate for a coordinated circular economy strategy in BC

13

How important is each of the following strategies for **Empowered Choices and Awareness** to you? Please rate each strategy from 1 to 5 stars (with 1 being not at all important and 5 being the most important).



Explain your answer:

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Explain your answer:

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## EMPOWERED CHOICES &amp; AWARENESS



### Reduce embodied carbon in new construction

#### Why?

- » Carbon pollution generated from manufacturing, transporting, and installing building materials can be significant, but we can reduce embodied carbon impacts in new construction by choosing low carbon building materials

#### Ideas for how we can do this:

- » Incentivize the use of low carbon building materials including mass timber
- » Advocate for the use of life cycle assessment tools
- » Consider embodied carbon reduction targets for new developments with equity in mind



### Increase construction and demolition waste diversion

#### Why?

- » Up to a third of our region's waste is material from the construction, demolition, and renovation of buildings

#### Ideas for how we can do this:

- » Enhance and enforce waste diversion requirements during demolition
- » Support growth in the market for salvaged demolition materials
- » Encourage deconstruction rather than demolition to encourage reuse of building materials



### Expand urban agriculture and food recovery

#### Why?

- » Growing food in the City improves air and soil quality, boosts biodiversity, increases food security, and provides opportunities for strengthened community connection

#### Ideas for how we can do this:

- » Expand the network of community gardens
- » Make it easier to grow food in residential boulevards
- » Support partnerships that encourage food waste recovery (e.g., unsold food to people or organizations in need)

### CONTINUED...

How important is each of the following strategies for Empowered Choices and Awareness to you? Please rate each strategy from 1 to 5 stars (with 1 being not at all important and 5 being the most important).



Explain your answer:

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Explain your answer:

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Explain your answer:

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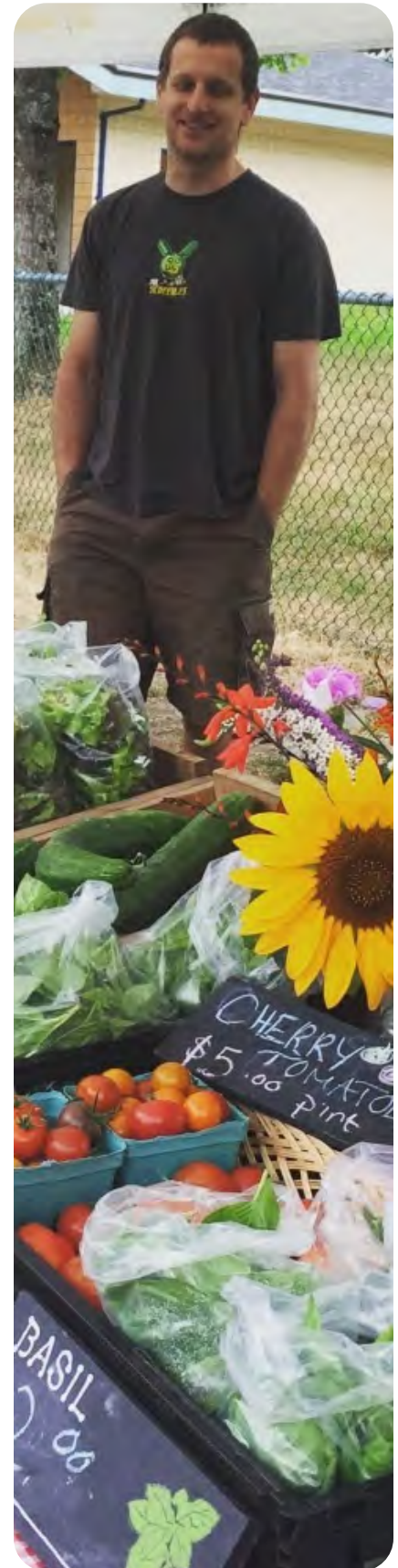


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Do you have any ideas about HOW any of the Empowered Choices and Awareness strategies could be implemented to make them work for you? Write them here.

[illegible]

15

What actions are you willing to take to make low impact choices? These could be actions you are already doing! Check all that apply.

- ☐ Use low carbon building materials for renovations or new buildings
- ☐ Recycle waste construction materials (wood, metals, glass, concrete, etc.)
- ☐ Grow food in a garden
- ☐ Eat less meat or dairy
- ☐ Repair items or buy second hand
- ☐ Buy local products
- ☐ Volunteer or advocate for low impact choices
- ☐ Learn more about the impact of your choices
- ☐ Other:

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16

What is the #1 thing that would help you to have a more plant-based diet?

- ☐ More information about the climate impact of food
- ☐ More information about plant-based meal-planning
- ☐ Increased access to affordable fruits and vegetables
- ☐ Increased access to space to grow food
- ☐ More options for plant-based prepared foods/restaurants
- ☐ Nothing. I'm not able or not interested in having a more plant-based diet
- ☐ Other:

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# LEADING BY EXAMPLE

## did you Know?

Studies have shown that our climate-conscious actions can influence our neighbours to reduce their carbon pollution. We can ALL be climate leaders by making choices that enhance our environment.



Benchmarking is the process of tracking a building's energy and climate performance over time to help identify opportunities for operational efficiency improvements and retrofit projects. The City currently benchmarks the performance of our civic buildings and discloses the results on the voluntary BuildingBenchmarkBC Disclosure Map.



## BE A CLIMATE LEADER!

There are many ways we can reduce our carbon pollution as a community:

- ▶ The City can reduce carbon pollution from our own operations
- ▶ Building owners and managers of residential, commercial, and industrial buildings can gain competitive insights by benchmarking their buildings through BuildingBenchmarkBC
- ▶ Community groups, non-profit organizations, and citizen-led groups can protect and restore habitats and promote sustainable solutions
- ▶ Residents can take advantage of rebates to retrofit their homes, use active transportation, conserve waters, grow their own food, and make sustainable purchasing choices. They can also learn more and encourage others!





# DRAFT STRATEGIES

## Leading by Example

Fostering environmental leadership within our community and organization to inspire transformative change.

## Why is this important?

We need leaders to mobilize our community to take action on climate change. The City can lead the way by adoption new corporate climate targets and cutting carbon from our operations.



### Make civic buildings low carbon and resilient

#### Why?

- » Our civic buildings, like our recreational centres, account for more than 60% of our corporate carbon pollution

#### Ideas for how we can do this:

- » Undertake energy audits to optimize City facilities
- » Establish low carbon retrofit plans for each civic building
- » Integrate resilience and embodied carbon considerations into new building and retrofit standards



### Transition to low carbon fleet

#### Why?

- » Our civic fleet, like our garbage trucks, landscaping equipment, and other vehicles, account for 30% of our corporate carbon pollution

#### Ideas for how we can do this:

- » Increase EV charging stations for City fleet and staff vehicles
- » Upgrade electrical infrastructure at civic facilities to support fleet electrification
- » Develop a procurement policy to support the transition to a zero emissions fleet

17

How important is each of the following strategies for Leading by Example to you? Please rate each strategy from 1 to 5 stars (with 1 being not at all important and 5 being the most important).



Explain your answer:

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Explain your answer:

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# DRAFT STRATEGIES LEADING BY EXAMPLE



## Implement sustainable procurement and financial processes

### Why?

- » By accounting for carbon pollution in our internal budgeting, purchasing, and decision-making, we can prioritize opportunities to cut carbon pollution

### Ideas for how we can do this:

- » Include carbon reduction considerations in our financial processes
- » Update our existing sustainable purchasing policy
- » Update our policies to adopt low carbon alternatives



## Invest in climate leadership

### Why?

- » We need leaders within our community to grow a culture of collective action and work together to cut our carbon pollution and protect our environment

### Ideas for how we can do this:

- » Improve staff training about climate and environment issues and opportunities
- » Enhance public education and climate literacy
- » Provide mentorship opportunities to encourage climate leadership in the community, especially among youth and visible minorities

### CONTINUED...

How important is each of the following strategies for Leading by Example to you? Please rate each strategy from 1 to 5 stars (with 1 being not at all important and 5 being the most important).



Explain your answer:

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Explain your answer:

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# LEADING BY EXAMPLE

18

Do you have any ideas about HOW any of the Leading by Example strategies could be implemented to make them work for you? Write them here.

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19

What actions are you willing to take to help grow a culture of collective action and climate leadership? These could be actions you are already doing! Check all that apply.

- ☐ Learn more about City and individual actions that reduce our impact
- ☐ Talk to my friends and neighbours about low impact choices
- ☐ Be mentored by a climate leader or mentor a future leader
- ☐ Join a climate or environment community group
- ☐ Advocate for climate solutions and environmental protection
- ☐ Other:

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20

What is the #1 thing that would help you become a climate leader?

- ☐ Learning more about climate action in the City
- ☐ Attending climate leadership training
- ☐ Having a climate leader mentor
- ☐ Being part of a climate or environment community group
- ☐ Recognition and awards for being a climate leader
- ☐ Nothing. I am not able or interested in becoming a climate leader
- ☐ Other:

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To help us understand your climate and environment priorities, answer the following questions.

21

How concerned are you about our climate and nature crises?

LESS CONCERNED			MORE CONCERNED	
NOT AT ALL CONCERNED	SOMEWHAT NOT CONCERNED	I'M NOT SURE	SOMEWHAT CONCERNED	VERY CONCERNED
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

22

What is your relationship to the City? Check all that apply.

- ☐ Resident (live in the City)
 ☐ Live in a neighbouring community (which one?)  
 \_\_\_\_\_
- ☐ Own a business in the City
 ☐ Other (please note)  
 \_\_\_\_\_
- ☐ Work in the City
- ☐ Visit the City to shop, use amenities, see friends / family, etc.





Inclusivity and diversity are fundamental components of a healthy community.

To help us understand who is participating so we can ensure that we are reaching a broad demographic, please answer the following optional questions.

A summary of the responses will be shared with City staff and partners.

Any personal identifiable information will be removed prior to publication.

23

**What is your age range?**

- ☐ 19 or under
- ☐ 20-34 years
- ☐ 35-49 years
- ☐ 50-64 years
- ☐ Over 65 years

24

**With which gender do you most identify?**

- ☐ Male
- ☐ Female
- ☐ Non-binary
- ☐ Prefer to self-describe:

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25

**How do you identify in terms of your ethnic background (e.g., Asian, Black, Caucasian, First Nations, etc.)**

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26

**What is your total household income?**

- ☐ Less than \$24,999
- ☐ \$25,000 to \$49,999
- ☐ \$50,000 to \$99,999
- ☐ \$100,000 to \$199,999
- ☐ \$200,000 or more

**27** What type of housing do you live in?

- ☐ Single-family home
  - ☐ Duplex, triplex, fourplex
  - ☐ Multi-unit dwelling (condo, apartment)
  - ☐ Secondary suite or coach house
  - ☐ Other (please describe)
- 

**28** Do you own your own home?

- ☐ Yes
- ☐ No

**29** What is your primary mode of transportation?

- ☐ Walk
  - ☐ Bicycle (electric or human powered)
  - ☐ Personal vehicle (gas/diesel fueled)
  - ☐ Personal vehicle (electric)
  - ☐ Shared vehicle (ride-share, car-share, taxi)
  - ☐ Public transit
  - ☐ Micromobility (skateboard, scooter)
  - ☐ Other (please note):
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30

Please write any additional thoughts below that you would like to share with us about climate and environment.

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If you would like to be informed of project updates, please provide your email address:

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*Your email will be used solely to provide updates related to this Project. Your information will not be shared or used for other purposes.*

Your input will be used to help set our directions and build the Draft Climate and Environment Strategy for Council consideration anticipated in 2022.

*Thank you!*

*The City is collecting your information in accordance with section 26 of the Freedom of Information and Protection of Privacy Act. The information will be used to help shape the Climate and Environment Strategy. A summary of the results of this survey will be shared with City staff, partners, and the community. Any personal identifiable information will be removed prior to publication. If you have any questions about the survey or how the City is collecting your information please contact the Planning and Development Department at [environment@cnv.org](mailto:environment@cnv.org) or 604-983-7357.*

# city of north vancouver



City of North Vancouver  
141 West 14th Street  
North Vancouver, BC V7M 1H9

Email: [environment@cnv.org](mailto:environment@cnv.org)

Phone: 604-983-7357



## STAY CONNECTED

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