

Nelson Next

Implementing the City of Nelson's Visionary Climate Plan



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Nelson Next Climate Plan

The Roadmap

To see the specific Tactics associated with these Aspirations and Strategies, please go to nelson.ca/climatechange

Aspiration One

Nelson's residents and tourists conveniently navigate the city and region using the highest per capita rates of public, active, or electric transportation in the country.

Strategies:

- ▶ Passenger and public transport is clean, active, and shared.
- ▶ Our active and public transportation infrastructure is accessible, connected, and maintained.
- ▶ Nelson is congestion and pollution-free.

Aspiration Two

Infrastructure and buildings in Nelson are zero carbon and resilient.

Strategies:

- ▶ New buildings are net zero ready, have low embodied carbon, and are resilient against a changing climate.
- ▶ Existing buildings are retrofitted to achieve deep energy savings, reduced emissions, and climate resilience.
- ▶ Our building sector and academic institutions are leaders in green building research, innovation, and construction.
- ▶ Financial barriers to energy efficient and resilient buildings are reduced through a range of support mechanisms.

Aspiration Three

Nelson is a connected community, where all residents are prepared to work collaboratively to prevent or reduce climate change impacts.

Strategies:

- ▶ Climate change impacts are integrated into the key planning, operational, and infrastructure-related decisions made in and for our city.
- ▶ We work on innovative, creative, and localized climate solutions as a community.
- ▶ Nelson contributes to a regenerative, viable, and resilient regional food system.
- ▶ Nelson's highest priority climate risks are widely understood and collaboratively addressed.
- ▶ All residents—especially those most at risk—have high quality access to information, capacity-building opportunities, and support to better prepare for and respond to climate change.

Aspiration Four

Nelson's natural ecosystems and the services they provide us are healthy, abundant and diverse.

Strategies:

- ▶ Essential ecosystem services—such as clean air, clean water, and biodiversity—are accounted for and protected.
- ▶ Our water supply is safe, secure, and responsibly used by residents and businesses.
- ▶ Our carbon footprint is continually reduced through a range of carbon sequestration and green infrastructure innovations.

Aspiration Five

Nelson is a sustainable economy and renewable energy leader.

Strategies:

- ▶ Renewable and low-emission energy is generated locally and consumed responsibly.
- ▶ Our local economy is low carbon and prepared to adapt and thrive as the climate changes.
- ▶ Our local students and workforce are consistently engaged in capacity building and creative endeavors with positive climate outcomes.

Aspiration Six

Nelson has a thriving circular economy and generates the lowest waste per capita in Canada.

Strategies:

- ▶ Our community is committed to the zero-waste hierarchy—prioritizing waste avoidance, reduction, and reuse.
- ▶ The circular economy in Nelson is continually growing and evolving through cross-sectoral partnerships and innovation.

Aspiration Seven

We are a model city for integrated climate action and leadership, ensuring all municipal operations are low carbon and resilient, and our priority climate change actions are funded and monitored.

Strategies:

- ▶ Progress on Nelson Next is continually monitored and shared in a transparent and accessible way.
- ▶ Low carbon resilience principles and requirements are fully integrated into organizational operations and culture.
- ▶ Internal capacity development for integrated and sustained climate action and leadership is dynamic and ongoing.

Let's Get Started!

The City of Nelson already knows how to mobilize to achieve ambitious sustainability goals. Nelson Next continues the environmental leadership our city was built on, and acknowledges the new and emerging opportunities we plan to take advantage of.

This is a new and uniquely dynamic policy direction for Nelson. As momentum is built through the delivery of priority tactics, we will monitor the Plan's impact regularly - pivoting to reflect results, and to incorporate new research and emerging technology.

Nelson Next will - and should - evolve over time. This shows we are responding to shifting conditions and changing landscapes.

Our Implementation Framework:



Through Nelson Next, we aim to create new jobs, stimulate innovation, and contribute to a stronger, more inclusive, and vibrant city. Implementing this Plan will lead to a win-win scenario for the environment and the community.

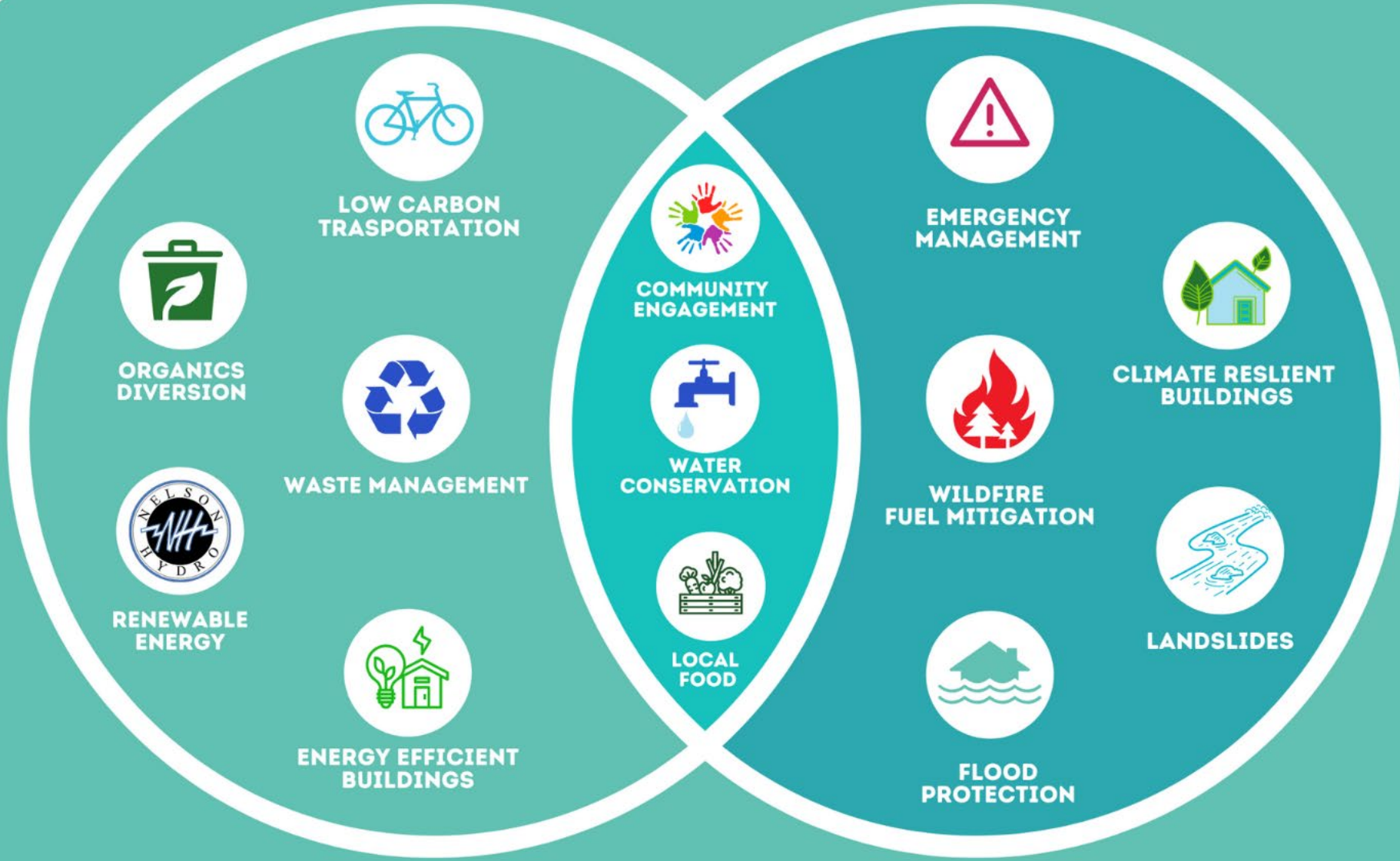
Of course, the collective success of Nelson Next will require unprecedented collaboration and action from every resident, organization, business and sector. A healthier and safer Nelson is ours to build and enjoy!

Now is the time to move forward - together. Now is the time to increase our pace of action and embrace the transition required of us. Now is the time to both protect and enhance our beautiful and exciting city.

We are Nelson Now—
and we are Nelson Next.

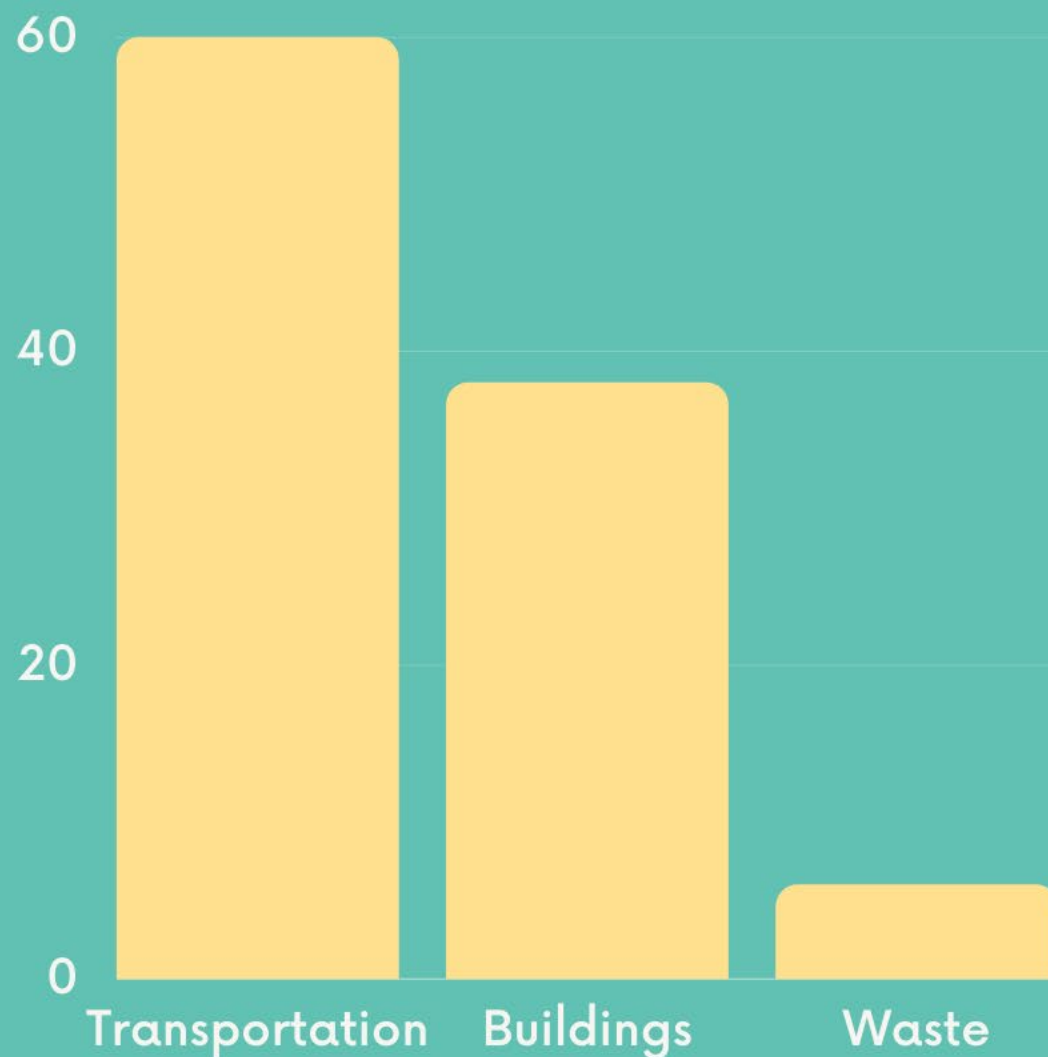
MITIGATION

ADAPTATION



Our Approach to Implementing Nelson Next

Focusing on reducing our largest emissions sources and preparing for our largest climate impacts.



Nelson Next Aspiration

Nelson's residents and tourists conveniently navigate the city and region using the highest per capita rates of public, active, or electric transportation in the country.



ACTIVE TRANSPORTATION PLAN City of NELSON

Let's get active!

This document is a review of the original 2010 Active Transportation Plan (ATP) with the goal to offer an active transportation network that provides interconnectivity between neighbourhoods, the downtown and key amenities.

What is Active Transportation?

Active transportation (AT) refers to all human-powered forms of travel, such as walking, cycling, rolling a wheelchair and more. The purpose of the **Active Transportation Plan (ATP)** is to provide a vision to guide the development, promotion and implementation of safe, attractive and convenient active transportation choices in Nelson.

Why Active Transportation?

- AT benefits all ages and improves social connections
- AT improves air quality and reduces green house gas emissions (GHGs)
- AT infrastructure is low cost and can enhance our community's economy
- AT improves the health, vibrancy and livability of our community

Walking, cycling and rolling reduces your individual GHG emissions.

How will an ATP make a difference?

- By creating a priority strategy focused on short-term realistic actions;
- By leveraging grant funding and partnership opportunities to increase and renew AT infrastructure;
- By ensuring that all infrastructure projects, including maintenance of existing infrastructure, will include an active transportation lens; and
- By measuring and tracking the progress and success of active transportation.

Help contribute to active transportation by keeping your sidewalk clean of debris, landscaping and snow.

30.6% of people in Nelson either walk or bike to work compared to 20% in Vancouver.



E-Bike Financing Program

Nelson residents can access of up to \$8,000 of financing through their Nelson Hydro bill!



E-Bike Financing Program




Over 100 Loans
Disbursed

~\$300,000

Goal: 100 new
participants by
September

UBC Research on Active Transportation (REACT) Lab



How will you use
your new bicycle?

We want to know!

Study Investigator:
Dr. Alex Bigazzi



THE UNIVERSITY
OF BRITISH COLUMBIA

City of
NELSON

Nelson Next Aspiration

Infrastructure and buildings in Nelson are
zero carbon and resilient



Climate Resilient Buildings

Regional Energy Efficiency Program

Rebates & Energuide evaluations

Embodied Carbon

Low-Carbon Materials Guide

FireSmart

Fire Smart Materials Guide

Case Study: Federation of Canadian Municipalities

FCM Nelson scales up local program to support home-energy upgrades

Watch later Share

Video: Nelson scales up local program to support home-energy upgrades

Watch the video to learn lessons from the city's program design and implementation.

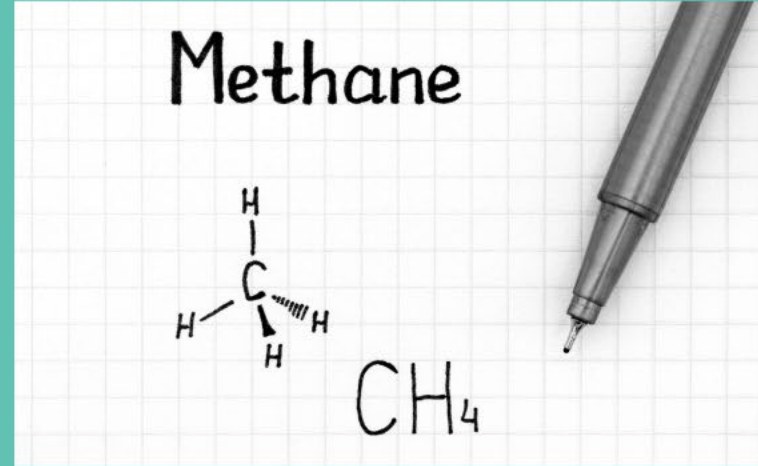


Nelson Next Aspiration

Nelson has a thriving Circular Economy and generates the lowest waste per capita in Canada



Why Divert Organics?



Priority Tactic: Deliver a city-wide organics diversion program

COMING MID 2022

ORGANIC WASTE DIVERSION

CANADA'S FIRST CITY-WIDE RESIDENTIAL PRE-TREATED ORGANICS PROGRAM



[NELSON.CA/ORGANICS](https://nelson.ca/organics)

Successful Pilot Project

- Exploring methods for diverting organics
- Tested in our community
- Outstanding results



Program Benefits

**Clean
Technology**

**Emissions
Reductions**

**Easy to use &
reduces wildlife
attraction**

Partnering on Organics Diversion

- Selkirk College Culinary Program
- Internship through MITACS & Selkirk College



Supporting Learning in the Classroom



Waste reduction and
organic diversion in
local schools



www.nelson.ca/organics

Nelson Next Aspiration

Nelson is a connected community where all residents are prepared to work collaboratively to prevent or reduce climate change impacts

KAST KOOTENAY
ASSOCIATION
FOR SCIENCE
& TECHNOLOGY



Climate & Energy
LAB



Climate & Energy Lab

A Community Hub
for Climate Innovation in Nelson

City of
NELSON

Thank You & Happy Earth Day

Take Part in our Shared Climate Future!

- ▶ Access a free FireSmart home risk evaluation
- ▶ Increase your active transportation with the E-bike Program
- ▶ Unlock maximum rebates for energy upgrades in your home
- ▶ Sign up for the emergency alert system



To learn more about these and other city programs, please scan this QR code

[NELSON.CA/PROGRAMS](https://nelson.ca/programs)

Contact us

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City of
NELSON