

2023 Local Government Climate Action Program Corporate Emissions Inventory Summary Report



The BC Local Government Climate Action Program (LGCAP) funds local governments and Modern Treaty Nations to support climate action initiatives to reduce emissions and enhance community resilience. The City of Nelson falls within the 2023 LGCAP population threshold for emissions reporting and participated voluntarily because of our commitment to climate action and corporate leadership.

The City's corporate emissions were last measured in 2018 as a part of the Climate Action Revenue Incentive Program (CARIP) and in the 2022 LGCAP Survey submission. As a result, the 2023 LGCAP emissions profile acts as a second reference point that will gain accuracy over time. Tracking and evaluating the effectiveness of climate actions will also enhance the quality of reporting to Council and the community.

LGCAP Traditional Service Inventory Scope

The "Traditional Service Inventory" framework for corporate greenhouse gas measurement outlines in-scope and out-of-scope emissions sources for local governments. Aligned with this framework, the City included emissions directly related to the provision of traditional services, encompassing administration, water management, waste collection, roads, fire protection, cultural services, shared and subsidiary organization services, and contracted traditional services.

Within these categories, Nelson applied given emission factors and calculation methodologies to direct building heating, cooling, and electrical consumption, fleet vehicle tailpipe emissions, and transportation fuel usage for contracted services. To ensure accuracy and year-over-year measurement, Nelson built off the 2022 LGCAP Survey and utilized internal staff capacity to collection and reporting of our in-scope corporate emissions.

Exclusions

Notably, emissions from transit buses, police services, vehicle and building air conditioning (fugitive emissions), electrical generation and transmission, waste disposal at the landfill, new

capital construction projects, and Scope 3 emissions¹ were excluded as they fall outside the scope of the Traditional Service Inventory framework. This is to ensure comparability amongst municipal emissions inventories at the Provincial level.

Contracted Fuel Emissions

The City of Nelson has piloted a targeted 2023 contractor fuel tracking procedure, which produced varied results. In the absence of 100% direct fuel consumption data for City contractors, the City estimated a portion of contractor fuel emissions by analyzing fuel and transportation-related line items on a representative sample of invoices.

This approach provided a practical solution for emissions assessment while acknowledging the challenges associated with retroactively obtaining detailed fuel consumption records from various contractors. The City is working to standardize further fuel consumption reporting for contracted services for next year's LGCAP reporting period.

Vehicle Fleet

In the summer of 2022, the City of Nelson implemented a fuel delivery and tracking system at the Public Works facility to monitor fleet fuel consumption. Due to difficulties in obtaining accurate 2022 fuel consumption data prior to this system, we applied a method to back-cast fuel consumption from August 2022 to June 2023, verifying it against past consumption trends for accuracy.

The City has high confidence in the 2023 fleet fuel tracking as the new Gasboy fuel tracking software completed it. Variation between 2022 and 2023 is due to estimations completed in 2022 in the absence the Gasboy tracking system

Emissions Profile

The City of Nelson's corporate emissions profile, seen in Figure 1, distributes the total 1507 t CO2e GHG emissions into designated LGCAP categories.

Note that reported fuel consumption data was not configured in alignment with the LGCAP categories, resulting in City fleet vehicle fuel consumption being allocated to the 'Fleet' category. For example, fuel consumption for fire service vehicles was categorized under 'Fleet' instead of 'Fire Services', as shown in Figure 1.

¹ Scope 3 Emissions are indirect emissions that occur because of the City's activity but are not directly controlled or owned by Nelson. For example, transportation associated with external consultants or the delivery of purchased goods to the City.

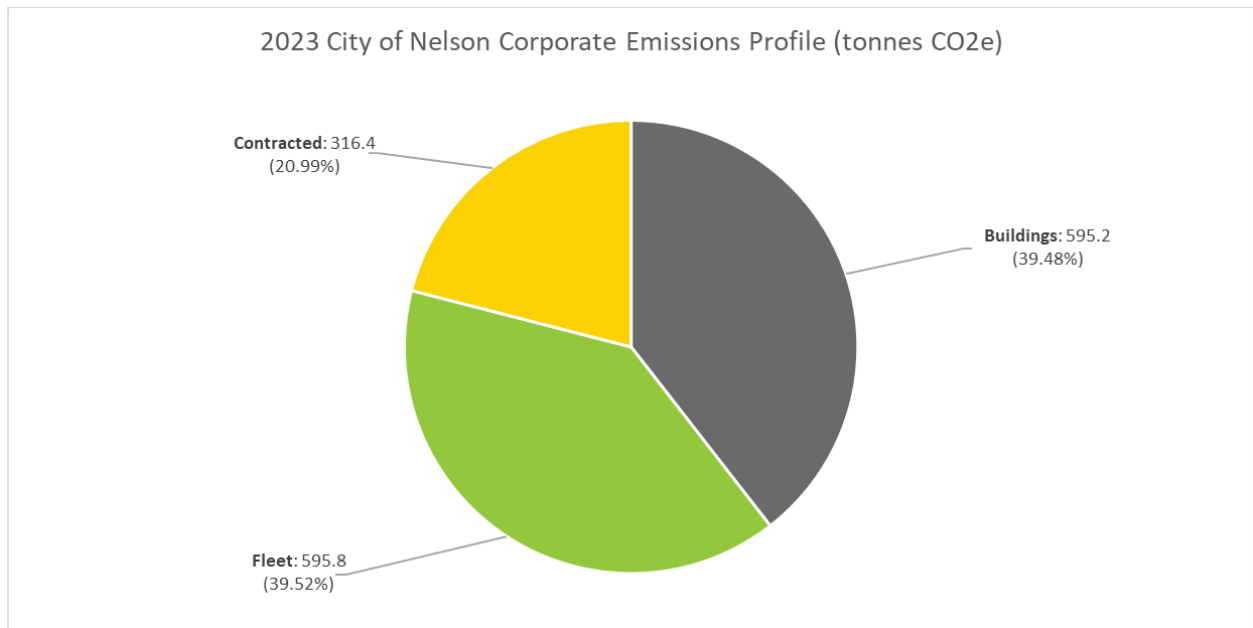


Figure 1: illustrates the City of Nelson's corporate emissions profile broken down into LGCAP designated categories.



LGCAP 2024

Introduction

Reaching [net-zero emissions](#) and adapting to a changing climate will require a whole-of-society approach. The Local Government Climate Action Program (the Program or LGCAP) aims to catalyze the efficient flow of financial resources, data and knowledge between Modern Treaty Nations, local governments, and the Provincial Government to allow for cost effective, impactful, locally implemented climate action. For more information about the Program you can refer to the [website](#).

What is climate action?

For the purposes of this program, a climate initiative or action is one that reduces greenhouse gas (GHG) emissions (mitigation) and/or strengthens resilience to the impacts of climate change (adaptation). This includes (but is not limited to): climate-related hazards; integrating climate change measures into policies, strategies and planning; improving education, raising awareness of climate change causes and solutions, increasing human and institutional capacity with respect to climate change mitigation and adaptation, and impact reduction and early warning systems.

Information collected will:

- Highlight local government and Indigenous climate leadership;
- Profile action by including local government and Modern Treaty Nation emissions, resilience and climate action performance data in the annual [Climate Change Accountability Report](#);
- Help inform policy development and monitor progress on achieving provincial and local climate objectives; and
- Support provincial efforts to better collaborate with and support communities to advance climate action.

The survey was informed by:

- Feedback from local governments, Modern Treaty Nations and ministerial partners;
- National and international GHG reporting protocols; and
- The CDP (formerly [Carbon Disclosure Project](#), a global non-financial disclosure system).

Instructions

**Please do not provide any personal information (e.g. email, phone number) in the survey.*

Survey: Word Version

A survey template (i.e. a Word version) is available on the [Local Government Climate Action Program webpage](#). The template can be used to gather information from staff across departments. Then simply cut and paste into the online version where you'll be submitting the survey.

Survey: Online Version

SimpleSurvey allows multiple users to access your survey, though two people **cannot** enter information at the same time.

- For other users to contribute to your survey, simply share the unique link with your team members.
- Users must select "Save and continue later" when they are done updating the survey but not ready to submit.

Required fields are indicated with a red asterisk (*). You will not be able to submit the survey and attestation form without completing these fields.

- Some fields have formatting considerations (i.e. numbers only). You will not be able to submit the survey and attestation form until all required fields are completed properly. The red text error message will indicate what is needed.

There is a 9,999 character limit for the open-ended questions.

Attestation Form

The attestation form is filled in after survey questions are completed. It is the second page of the SimpleSurvey submission.

- The attestation form is where the Chief Financial Officer, or equivalent position, attests to the following:
 - That Local Government Climate Action Program funding has been, or will be, allocated to climate action.
 - That Local Government Climate Action Program funds for years 1 and 2 received in 2022 and 2023 will be spent by March 31, 2025.
 - That Local Government Climate Action Program funds for years 3-5 received in 2024 will be spent by March 31, 2028.
 - That a completed and signed version of this form and survey contents will be publicly posted by September 30, 2024.

Requirements

1. Reporting

1. Report on **at least one** project linked to objectives from the [CleanBC Roadmap to 2030](#) and/or [Climate Preparedness and Adaptation Strategy](#). If your community reports one initiative related to one sector (e.g. buildings) you have satisfied this requirement. Funding for the project(s) does **not** need to come from this program.
 2. For communities with populations of 10,000+ (based on 2020 BC Census data figures), measuring and reporting local government's traditional services emissions is required.
 3. Attest that funds will be allocated to climate initiatives before submitting your survey.
- Open-ended questions asking for one or more initiatives related to climate action may be highlighted in Provincial materials to acknowledge innovative local climate solutions. A template to submit climate action success stories for publication can be found on the [Local Government Climate Action Program webpage](#).

2. Deadline to submit the survey & attestation form

- The deadline for submitting your survey and attestation form is 4 PM PDT on July 31, 2024.

3. Posting the survey & attestation form publicly

- The design / format of the form **can** be changed, however, all information from required questions must be included.
- Optional questions and answers can be omitted.
- The deadline to post the survey and attestation form publicly is September 30, 2024.

Download a copy for your records!

Once submitted, you can **download a copy of the completed survey** and attestation form (PDF, Excel, and Word options). If you close this window before the download link appears, please reach out for a copy of your submission.

Support

If the survey is accidentally submitted, a submitted survey needs to be revised, or if you have any questions, please reach out to us at LGCAP@gov.bc.ca. We will be happy to provide assistance.

Thank you!

The LGCAP Team

The Survey

Climate Action Planning

Climate Action Plans are strategic roadmaps that identify how an organization will reduce their greenhouse gas (GHG) emissions (mitigation), increase their resilience to the impacts of climate change (adaptation), or a combination of both.

To answer the following questions, consider staff that contribute to activities that reduce greenhouse gas (GHG) emissions and/or strengthen resilience and the ability to adapt to climate-induced impacts. This includes (but is not limited to): climate-related hazards; integrating climate change measures into policies, strategies and planning; improving education, raising awareness of climate change causes and solutions, increasing human and institutional capacity with respect to climate change mitigation and adaptation, and impact reduction and early warning systems.

Question 1 a): How many staff in full time equivalents (FTEs) are dedicated to working specifically on climate action?

If a staff member is a climate action coordinator and works 100% on climate-related issues, add 1.0.

8.0

Question 1 b): How many staff in full time equivalents (FTEs) are dedicated to working on climate action in other departments such as transportation or engineering?

For example: Can include staff in engineering, emergency management, transportation, waste management, etc. related to climate work but whose primary role is not working on climate action. If a staff member works approximately 25% (please estimate) on climate-related issues, add 0.25. Working on climate-related issues does not need to be written into the staff member's job description to be counted here.

14.0

Question 2 a): Does your local government or Nation have a community-wide climate action plan or other guiding document(s)?

Yes

Please select the type of plan(s) from the list.

In the textbox, indicate the date the plan was adopted/approved in format YYYY-MM. If you don't remember the month, you can enter "01" for January.

Integrated climate plan (addressing mitigation, adaptation and/or energy use)
2020-01

Please include a link to the document or webpage if available.

<https://nelson.ca/DocumentCenter/View/4920/Nelson-Next>

Question 2 b): Does your local government or Nation have a corporate climate action plan or other guiding document(s)?

No

If not, please select one or more options from the list.

No, but we are currently undertaking one and it will be completed in the next two years.

Question 3: Has your local government or Nation declared a climate emergency?

No

Question 4: Please select up to 3 challenges impeding the advancement of climate action in your community.

Lack of financial resources.
Lack of provincial or federal government support or collaboration.
Competing priorities.

Optional: Is local political support a challenge your local government faces that is impeding climate action?

No

Traditional Services Greenhouse Gas Emissions

Measuring traditional services emissions (defined in previous years as corporate emissions) is a Program requirement for all communities with a 2020 population of 10,000 and above ([see population statistics here](#)). Traditional services GHG emissions are those produced by the delivery of local government or Modern Treaty Nation "traditional services" including:

- Fire protection,
- Solid waste management,

- Recreational / cultural services,
- Road and traffic operations,
- Water and wastewater management, and
- Local government administration.

Please see the following resources for guidance:

- [LGCAP Traditional Services Boundaries and Scope Guidance](#),
- [Scope Summary Document](#),
- [Traditional Services Inventory Reporting Tool](#),
- [Contracted Services Emissions Guidance](#),
- [Contracted Emissions Calculator](#),
- [BC Best Practices Methodology for Quantifying GHG Emissions](#), and
- [Emission Factors Catalogue](#).

Question 5: For the 2023 calendar year, has your local government or Nation measured and reported associated traditional services GHG emissions?

Yes

If your local government or Nation measured 2023 traditional services GHG emissions, please report the GHG emissions from services delivered directly by your local government (in tonnes of carbon dioxide equivalent) from scope 1 and 2 sources.

1190

If your local government or Nation measured 2023 traditional services GHG emissions, please report the GHG emissions from contracted services (in tonnes of carbon dioxide equivalent) from scope 1 and scope 2 sources.

316

If your local government or Nation measured 2023 traditional services GHG emissions, please report the total GHG emissions from both directly delivered and contracted services (in tonnes of carbon dioxide equivalent) from scope 1 and scope 2 sources.

This would be the sum of the two questions above.

1506

If your local government or Nation measured 2023 traditional services GHG emissions, please report what protocol you used to measure emissions.

LGCAP Protocol

Optional: Please indicate how many tonnes of CO₂e are associated with facilities.

595

Optional: Please indicate how many tonnes of CO₂e are associated with mobile sources.

911

Optional: Please provide any further comments you wish to share on traditional services emissions measurement and reporting here (e.g. system or approach used to measure traditional services emissions).

Noteworthy Assumption: 1) Roughly 50% of the contractor emissions aligning with LGCAP scope were estimated based on contract service, average fuel line-item purchase value, and the use of diesel fuel. 2) 2023 was the first year the City of Nelson had a full years' worth of Gasboy Fuel Management tracking data for all City of Nelson fleet vehicles

Community-Wide Greenhouse Gas Emissions

B.C. [Climate Action Charter](#) signatories have committed to measuring and reporting their community-wide GHG emissions generated from all GHG sources (anthropogenic) within their community boundary.

The [Community Energy and Emissions Inventory](#) (CEEI) initiative provides a provincial framework for tracking and reporting energy and GHG emissions at a community-wide scale. It is published with a two-year lag, however, raw data can be requested by local governments that wish to measure and report their community-wide emissions for the buildings and solid waste sectors ahead of publication.

The Climate Action Secretariat (CAS) is aware that some local governments are developing their own community-wide GHG emissions inventories (separate from the provincial CEEI) . A better understanding of community-wide emissions measurement across B.C. will help CAS as we upgrade CEEI.

Question 6: For the 2023 calendar year, have community-wide GHG emissions been measured for your local government or Nation?

No

If not, please select all that apply from the list.

No, we do not measure and report community-wide emissions annually. (Please indicate most recent year completed: YYYY)
Reported 2020 for 2018 emissions

If not, has your community or Nation measured and reported community-wide emissions in the past?

Yes

When was the last year your community or Nation reported its community-wide emissions and what is the interval for reporting (ex. 2022, every 5 years)?

2020, and at ~5 year interval

Please report your community-wide transportation sector emissions in tonnes of CO₂e for the most recent year available.

46342

Please report your community-wide buildings sector emissions in tonnes of CO₂e for the most recent year available.

29259

Please report your community-wide solid waste sector emissions in tonnes of CO₂e for the most recent year available.

3501

If your local government or Nation measured your community-wide emissions, please report the protocol(s) you used to measure emissions.

Other.
LGCAP Protocol

Question 7: Currently, the Province's legislated GHG emission reduction targets are 40% by 2030, 60% by 2040 and 80% by 2050, relative to 2007. Please state your local government or Nation's target(s).

Please enter "0" if no targets or baseline are established for the years given in the table.

2030

Reduction Percentage (format: e.g., 40)

75

Baseline Year (format: e.g., 2007)

2007

2040

Baseline Year (format: e.g., 2007)

2007

2050

Reduction Percentage (format: e.g., 40)

0

If your local government or Nation's targets don't conform to the target years noted above, please enter them here. Format e.g.: target 2035 50% baseline 2010, target 2060 70% baseline 2010, ...

community target of net zero by 2040 from baseline 2007

Question 8: Does your local government or Nation have net-zero or carbon-neutral emissions target(s)?

Please select all that apply.

Yes: Corporate net-zero target (Net-zero refers to a jurisdiction or organization achieving a balance between greenhouse gas emissions produced and removed from the atmosphere (e.g. planting trees or using carbon capture technologies))

Question 9: Please select up to three supporting indicators that would be most valuable to your local government or Nation to advance climate action (these indicators were previously reported through the Community Energy and Emissions Inventory initiative).

Commute by mode: Employed labour force by mode of commute

Walk score: Proximity to services

Other

Fuel sales data captured at local fueling stations for community single use vehicles and commercial vehicles. It is costly and time-consuming to pull this directly from local fuel suppliers.

Optional: Please provide any further comments you wish to share on community-wide emissions measurement and reporting here.

The City is currently assessing whether to capture community-wide emissions in the 2025 year based on climate action implementation progress.

Provincial Policy Alignment - Mitigation

The CleanBC Roadmap to 2030 is B.C.'s plan to meet provincial emissions reduction targets to be 40% below 2007 levels for 2030 and set us on course to reach net-zero emissions by 2050.

One requirement of this Program is that you must **report on a minimum of one project** linked to objectives from the [CleanBC Roadmap to 2030](#) and/or [Climate Preparedness and Adaptation Strategy](#) (CPAS). Funding does **not** need to come from this program. For questions 10-13, if your community reports one initiative related to one sector (e.g. buildings) you have satisfied this requirement. That said, please select all that apply.

Question 10: Please indicate all climate initiatives your local government or Nation had in-progress, ongoing or completed in the 2023 calendar year related to the buildings sector. This should not be limited to what your LGCAP funding supported.

Corporate

Community

Corporate buildings policies, programs and actions.

Highest efficiency standards for new space and water heating equipment.

BC Energy Step Code adoption (Step 3 or higher).

Zero Carbon Step Code adoption.

Efficiency upgrades/retrofits.

Other.

Demand-side management

Please enter the step for part 3 buildings (Energy Step Code).

Optional

(2024) Group C, D & E occupancy: Step 3

Please enter the step for part 9 buildings (Energy Step Code).

Optional

(2024) Step 4 or hit Step 3 if they also achieve the EL-3 (strong) level of the Zero Carbon Step Code

Please enter the step for part 9 buildings (Zero Carbon Step Code).

Optional

(2024) Step 4 or hit Step 3 if they also achieve the EL-3 (strong) level of the Zero Carbon Step Code

Community-wide buildings policies, programs and actions.

Highest efficiency standards for new space and water heating equipment.

BC Energy Step Code adoption (Step 3 or higher).

Zero Carbon Step Code adoption.

Other.

Demand-side management, Regional Energy Efficiency Program

Please enter the step for part 3 buildings (Energy Step Code).

Optional

(2024) Group A occupancy: Step 2 (2024) Group C, D & E occupancy: Step 3

Please enter the step for part 9 buildings (Energy Step Code).

Optional

(2024) Step 4 or hit Step 3 if they also achieve the EL-3 (strong) level of the Zero Carbon Step Code

Please enter the step for part 3 buildings (Zero Carbon Step Code).

Optional

(2024) Group C, D & E occupancy: EL-2

Please enter the step for part 9 buildings (Zero Carbon Step Code).

Optional

(2024) Step 4 or hit Step 3 if they also achieve the EL-3 (strong) level of the Zero Carbon Step Code

Please enter the step for part 3 buildings (Zero Carbon Step Code).

Optional

(2024) Group C, D & E occupancy: EL-2

Please highlight a community project(s) that was in-progress, ongoing or completed in the 2023 calendar year related to buildings. Please enter NA if your community reported no buildings initiatives ongoing, completed or in-progress for 2023.

In 2023, Rokform Solutions, a local concrete supplier, collaborated with the City of Nelson, Lafarge Canada, and Nelson Ready Mix to promote sustainable building practices through a seminar on low-carbon concrete. The City of Nelson supported this initiative by providing resources and promoting the seminar to local contractors and builders. This seminar educated the local building industry on reducing carbon pollution by utilizing low-carbon concrete mixes containing fly ash, adhering to code specifications without exceeding them, and using concrete as a finished product. These strategies not only reduce carbon emissions but also result in cost savings for contractors. Following the seminar, there was an immediate positive response from local contractors, who began implementing these strategies. Rokform Solutions also developed an internal Low-Carbon Policy in July 2023, which has already led to a significant reduction in CO2 emissions. The policy and the seminar have helped reduce the use of conventional concrete and increased the adoption of high-volume fly ash concrete mix, with an estimated reduction of 60 tons of CO2 pollution in the second half of 2023. Dan Thompson from Rokform Solutions, who is also a member of the City of Nelson's Embodied Carbon Advisory Committee, received a Sustainable Leadership Award from the City of Nelson on December 14, 2023, for his dedicated efforts in promoting these sustainable practices.

Question 11: Please indicate all climate initiatives your local government or Nation had in-progress, ongoing or completed in the 2023 calendar year related to the transportation sector. This should not be limited to what your LGCAP funding supported.

Corporate
Community

Corporate transportation policies, programs and actions.

Implemented zero-emission vehicle first procurement policy for all local government on and off-road vehicles purchases.

Implemented a zero-emission vehicle preference or requirement for contracted work from a service provider.

Electric vehicle charging studies/planning.

Electric vehicle charging infrastructure investments.

Community-wide transportation policies, programs and actions.

Improving or expanding public transportation.

Mode shift targets for passenger and/or commercial transportation (shifting from private vehicles to sustainable modes like walking, cycling and public transit) in Official Community Plan, Regional Growth Strategy or other guiding documents.

Bylaws updated to prioritize energy efficient transportation hierarchy (i.e. pedestrians first).

Active transportation planning.

Active transportation infrastructure investments.

Active transportation education and encouragement programs.

Implement pedestrian plazas, car-free streets (temporary or permanent) or limited-access automobile streets.

Electric vehicle charging studies/planning.

Mandatory EV infrastructure in new construction.

Established electric vehicle charging ready bylaws.

Other.

E-Bike Financing Program. This is available to Nelson residents who own their own homes. Through the program they can access up to \$8,000 in financing toward the purchase of an E-Bike.

Please highlight a community project(s) that was in-progress or completed in the 2023 calendar year related to transportation. Please enter NA if your community reported no transportation initiatives ongoing, completed or in-progress for 2023.

In 2023, the City of Nelson, in collaboration with Doctors and Nurses for Planetary Health Kootenay Boundary, advanced its active transportation agenda through a \$30,000 grant from the BC Alliance for Healthy Living. The initiative included a Winter Cycling Expo held in November, which attracted over 200 participants. The expo provided valuable insights into winter cycling, addressing barriers such as the need for studded bike tires and enhancing community knowledge about safe winter riding. Following the expo, \$17,000 was allocated to distribute free cycling gear to residents, promoting year-round cycling. The project's second phase, the Winter Cycling Incentive Campaign, launched in February, further encouraged winter cycling through additional gear giveaways. This project not only increased active transportation but also strengthened community engagement and education on sustainable practices.

Question 12: Please indicate all climate initiatives your local government or Nation had in-progress, ongoing or completed in the 2023 calendar year related to community-wide and corporate action. This should not be limited to what your LGCAP funding supported.

Corporate
Community

Corporate climate policies, programs and actions

Sustainable procurement policy.
Other.
Organics diversion

Community-wide climate policies, programs and actions.

Complete, compact communities
Organics diversion
Other
Nature based solutions for climate resiliency

Complete, Compact Communities - Please select all that apply.

See Complete Communities Guide and Program for supports advancing identified community goals through the creation of more complete, compact and energy efficient communities.

Rezoning
Smaller lots
Density bonuses
Secondary suites and laneway homes
Infill development
Official Community Plans

Please highlight a community project(s) that was in-progress, ongoing or completed in the 2023 calendar year related to community-wide or corporate action. Please enter NA if your community reported no community-wide or corporate initiatives ongoing, completed or in-progress for 2023.

The implementation of Canada's first Pre-Treated Organics Diversion Program was underway in 2023. To achieve a 75% reduction in community GHG emissions by 2030 as outlined in our Nelson Next Climate Plan, the Pre-treated Organics Program goes beyond business as usual to reimagine how we divert household food waste. Prior to 2023, the City of Nelson did not offer an organics diversion program. Except backyard composting, all household food waste was sent to landfill. In 2023, the City distributed 1168 pre-treatment appliances to Nelson residents, representing approximately 24% of households in Nelson. Within the Fairview pilot neighbourhood, 672 households, or 72% of eligible pilot neighbourhood households, signed up for and were equipped with pre-treatment appliances. An additional 496 early adopter households outside of the pilot neighbourhood received appliances, and more early adopter households joined a waitlist for the next opportunity to participate in the program. To achieve a high rate of participation among households in the Fairview pilot neighbourhood, the City of Nelson conducted an outreach and education campaign. The City reached pilot neighbourhood residents through direct mail, print and social media, and through door-to-door canvassing. Every program participant received a printed program guide and watched a ten-minute video tutorial outlining how to use the appliance effectively and how to use the pre-treated organic material safely. The outreach campaign and education program strongly supported the successful implementation of this innovative program. Pre-treating food waste is unique compared to the traditional methods of collecting wet food waste, and Nelson is the first community in Canada to pilot this method at this scale.

Provincial Policy Alignment - Resilience and Adaptation

The goal of climate adaptation is to reduce risk and vulnerability associated with climate change impacts. To manage climate impacts, local governments and Nations are integrating climate adaptation principles into decisions and everyday activities.

One requirement of this Program is that you must report on **at least one or more** project(s) linked to one or more objectives from the [CleanBC Roadmap to 2030](#) and/or the [Climate Preparedness and Adaptation Strategy](#) (CPAS) in Questions 10-13. If your community reports one initiative related to one sector you have satisfied this requirement, but please select all that apply for Questions 10-13.

Question 13: Please indicate all initiatives your local government or Nation had completed, ongoing or in-progress in the 2023 calendar year to adapt to and build resilience to climate impacts. This should not be limited to what your LGCAP funding supported.

Corporate
Community

Corporate resilience and adaptation policies, programs and actions.

Addressing current and future climate risks through plans, adaptation measure implementation, programs, service delivery, asset management and/or other functions.

Collaboration with other communities on resilience planning/initiatives.

Monitoring climate risks or impacts (floods, wildfire, etc.).

Providing training (adaptation and mitigation skills).

Creation of policy/procedures to affect change (climate considerations into decision-making processes).

Creating data systems to support climate action.

Developing emergency/hazard response plans.

Other.

Enhancements to the City's Emergency Operations Centre (EOC) with increasing its capacity and ability to handle larger climate driven emergencies Emergency Operations Centre Training Program. To continue developing City staff's ability to work the EOC and towards enabling staff to deliver a more coordinated response to emergencies that may occur.

Community-wide resilience and adaptation policies, programs and actions.

Addressing current and future climate risks through plans, adaptation measure implementation, programs, service delivery, asset management and/or other functions.

Collaboration with other communities on resilience planning/initiatives.

Monitoring climate risks or impacts (floods, wildfire, etc.).

Public engagement on climate risks and actions.

Providing training (adaptation and mitigation skills).

Creation of policy/procedures to affect change (climate considerations into decision-making processes).

Creating data systems to support climate action.

Developing emergency/hazard response plans.

Please highlight one or more climate adaptation project(s) that were completed, ongoing or in-progress in the 2023 calendar year to reduce risk and increase resilience. Please enter NA if your community reported no community-wide or corporate initiatives ongoing, completed or in-progress for 2023.

Please note that highlights for resilience actions may be shared with the Ministry of Emergency Management and Climate Readiness (EMCR) for them to use on ClimateReadyBC as part of their work on sharing info on climate resilience in BC. EMCR may follow up for more details if needed.

A number of climate adaptation projects were completed in 2023 through the Wildfire Resilience program. These projects all increased the community's ability to adapt to the effects of climate change by either directly decreasing the wildfire risk or building wildfire resilience within the city. Community volunteer events in Art Gibbon Park and the Rail Trail engaged professional forestry crews in conjunction with an average of 30-40 community members per event to reduce fuel loads on 5.49 total Hectares of urban forest and popular recreation sites while providing hands-on education in wildfire risk reduction fuel management practices. A 5.7 hectare hand treatment to remove hazard fuels and limb conifer trees was completed as part of a three-phase risk reduction project on the Hwy 6 / Hwy 3A interchange. The work included 1.8 hectares of preparation for a prescribed burn that was later conducted with the support of the BC Wildfire Service in spring 2024. Hand treatments were also completed to reduce fuel continuity and prepare a 0.7-hectare site near Svoboda Road for an interagency training exercise and prescribed burn, scheduled for 2024. Public engagement to build the educational component of wildfire resilience was achieved through 14 information booths set up at local events and farmer's markets. In addition, the Wildfire Risk Reduction Open House drew over 150 public attendees to learn about wildfire in our community. Through the residential FireSmart program, 66 new properties received Home Ignition Zone Assessments, and their owners were provided an actionable report of how to reduce the property's risk from wildfire; with 18 of these homeowners utilizing provincial rebates through the program to complete their recommendations and increase their property's resilience to wildfire. A locally produced video series was also produced to explain the program and encourage Nelson residents' participation. To ensure wildfire risk reduction efforts were coordinated with those occurring in our neighboring municipalities and jurisdictions, the program hosted regular Nelson and Area Wildfire Risk Reduction / Community FireSmart Resiliency Committee meetings which include representatives from BCWS, BC Parks, RDCK, Selkirk Resource District, and other stakeholders.

Question 14 a): Has a climate risk and vulnerability or similar assessment been undertaken for your local government or Nation?

Please select all that apply. In the textbox, please provide the link to the public assessment if available.

Yes at the community level

<http://www.nelson.ca/DocumentCenter/View/4278/City-of-Nelson-Hazard-Risk-and-Vulnerability-Analysis2019?bidId=>

Question 14 b): Are you integrating climate risk into asset management, budgeting and climate action plans?

Yes, in asset management

Yes, in budgeting

Yes, in climate action plans

Question 15: What are the most significant climate hazards and impacts faced by your jurisdiction and what is the timeframe of their expected impact on your community?

For each selection, please indicate if the timeframe of their expected impact is short, medium, long or not sure. (short [current/by 2025]; medium [2026-2050]; long [beyond 2050])

Extreme heat and heat stress

short

Extreme cold, snow and ice

short

Water shortages

long

Wildfire

medium

Wildfire smoke

medium

Overland flooding

medium

Wind, rain, and other storm events

short

Ecological impacts (examples of ecological impacts include biodiversity loss and erosion)

medium

Cultural impacts (examples of cultural impacts include threats to identities, languages, and livelihoods)

medium

Human health impacts

short

Power outages

short

Question 16: What information do you need to know to be able to plan effectively for the future of your community, with respect to the hazards and impacts identified in Question 15? Please select one or more of what you consider the most valuable types of information for planning.

Local knowledge

Localized climate modelling and projected scenarios

Assessment of potential community impacts

Assessment of community vulnerabilities

Risk assessment of hazards

Mapping of climate change impacts and hazards

Demographic information

Projected development

Adaptation planning information

Technical expertise to implement solutions

Community/stakeholder engagement and support

Information on partnership opportunities

Examples of actions taken by other communities

Question 17: Based on the hazards and impacts you indicated as most significant in Question 15, which groups are most vulnerable to the impacts of those climate hazards and impacts?

Low-income households

Indigenous Peoples

Racialized communities

Newcomers to Canada (immigrants and refugees)

People experiencing homelessness

Seniors

Persons with disabilities

People living alone/isolated

Other

Youth are more vulnerable to the psychological impacts of climate change. People experiencing homelessness are also highly vulnerable to climate impacts.

Question 18: Of the hazards and impacts identified in Question 15, please specify the associated adaptation measures completed or in-progress in the 2023 calendar year, if any. If entering a hazard under "Other", please also write the hazard in the "Adaption measure" textbox.

Extreme heat and heat stress

Adaptation measure

Extreme Weather Response Plan

Extreme cold, snow and ice

Adaptation measure

Extreme Weather Response Plan

Water shortages

Adaptation measure

Source Water Protection Plan

Wildfire

Adaptation measure

Community Wildfire Resiliency Plan & Implementation, FireSmart Program

Wildfire smoke

Adaptation measure

Community Wildfire Resiliency Plan & Implementation, FireSmart Program

Overland flooding

Adaptation measure

Flood Response Plan

Coastal flooding, storm surge events and/or other coastal hazards

Adaptation measure

n/a

Wind, rain, and other storm events

Adaptation measure

Nelson Hydro Major Event Outage Response Plan

Ecological impacts

Adaptation measure

Partnership with SFU on Urban Tree Mast Plan through a Nature-Based Solutions Lens.

Human health impacts

Adaptation measure

Educating the public with providing information on where to access the health-related information

Cultural impacts

Adaptation measure

n/a

Power outages

Adaptation measure

Nelson Hydro Major Event Outage Response Plan

Other

Adaptation measure

Debris Flood: Steep Creek ACT Network for Debris Flood & Flow Resilience

Equity

Taking an equity-informed approach to climate action is about enhancing climate resilience for everyone in B.C., regardless of where and how they live and requires a just approach that integrates equity considerations into climate planning and adaptation responses.

Question 19: How does your local government or Nation ensure equitable access to and distribution of climate action opportunities and benefits?

Please select all that apply.

By engaging with equity seeking groups/frontline communities most impacted by climate policy and change.

By designing and implementing climate actions that remove barriers to participation in planning and programs faced by equity seeking groups/frontline communities most impacted by climate change.

Optional: Please highlight a climate initiative completed or in-progress in the 2023 calendar year that promotes equity and inclusion.

Youth face a disproportionate impact from psychological stressors associated with climate change, leading to higher rates of climate anxiety compared to other age groups. To address this issue, the City of Nelson has partnered with Wildsight's Youth Climate Corp to implement the Nelson Next Ambassador Program. This program aims to empower local youth by equipping them with skills and experience relevant to the climate economy. It also provides opportunities for them to learn about the actions that local governments can take to mitigate climate impacts. The Ambassadors serve as community engagement representatives, interacting with residents during the summer months. Their goal is to have face-to-face conversations and raise awareness about the City's Climate Plan and programs. In 2023, the Nelson Next Ambassadors engaged in over 215 meaningful conversations with residents, resulting in tangible increases in enrollment in City Climate Programs.

LGCAP Year 2 Funding

The Program must be able to demonstrate the impact this funding has on greenhouse gas emissions reductions and resilience and adaptation in B.C. To substantiate the Program, we must develop a baseline understanding of where local governments and Nations are at with respect to climate action and track progress over time.

Please do your best to specify how much of your LGCAP funds was invested for each initiative undertaken without double counting.

Question 20: What did/will your local government or Nation spend its LGCAP funding on for year two of the Program (2023)? Please select all that apply and indicate the total dollar value associated with each initiative. For LGCAP 2023 funding, The Corporation of the City of Nelson received 114082. Please ensure the amount(s) entered for Question 20 equal this amount in total.

Corporate

Corporate Initiatives

Textbox format: no dollar sign and up to two decimal points (i.e. 2500 or 657.25). If selecting "Other", please write both the item and the amount of funding in the textbox.

Staffing
114082

Please highlight the initiative(s) your local government or Nation's LGCAP year two funding will support.

City of Nelson Climate and Energy staff wages

Question 21 a): How much additional funding for climate action were you able to invest by leveraging your LGCAP funds? This could include matching grants as well as private investment.

Format: no dollar sign and up to two decimal places

535000

Question 21 b): Please list the funding programs leveraged and associated funders (i.e. Investing in Canada Infrastructure Program, Canada/Province).

Please enter "NA" if no funds were leveraged.

FortisBC, Columbia Basin Trust, Canada Summer Jobs, Union of B.C. Municipalities, B.C. Alliance for Healthy Living, ECO Canada

Question 22: What is your internal decision criteria for spending LGCAP dollars?

Funds go to support the Climate and Energy team within the organization to apply a climate lens on corporate operations, decision-making and supporting corporate and community climate action.

Question 23: Does your local government or Nation use a formal framework to apply a climate lens on infrastructure planning and decision-making?

This could include the Provincial preliminary GHG assessment guidance, the Federal climate lens guidance, or another climate lens framework.

Yes

Question 24: What is the value in the Program's continuity for your community?

Optional

The continuity of the LGCAP delivers substantial value to local governments. By providing consistent and long-term funding, the City of Nelson is better equipped to take strategic actions that align with both our corporate and community climate aspirations outlined in our Nelson Next Climate Plan. By receiving this funding, our community is better prepared to adapt to a changing climate and work towards reducing our climate impact.

Please note on posting the survey publicly:

- All information from required questions must be included.
- Optional questions and responses can be omitted.
 - The Province will use the information for internal purposes only.
- When posting the survey publicly, the design / format of the form can be changed.

Local Government Climate Action Program Attestation Form

Instructions for the Attestor (CFO or equivalent staff person):
Complete and sign this form by filling in the fields below.

I, the Chief Financial Officer, or equivalent position, attest to the following:

- 1. That Local Government Climate Action Program funding has been, or will be, allocated to climate action.
- 2. That Local Government Climate Action Program funds for years 1 and 2 received in 2022 and 2023 will be spent by March 31, 2025.
- 3. That Local Government Climate Action Program funds for years 3-5 received in 2024 will be spent by March 31, 2028.
- 4. That a completed and signed version of this form and survey contents will be publicly posted by September 30, 2024.

Attested by (first name, last name)

Aimee Mooney

Professional title

Deputy Chief Financial Officer

Local government or Modern Treaty Nation

Local Government - City of Nelson

Date

2024-07-24

Attestor signature

Please note: We did hear feedback to allow for file upload e-signatures and have looked into this. Unfortunately, uploaded files do not appear on the final report. If you require a redo for the digitally-drawn signature, please click the trash can. If that doesn't work, please submit your survey then contact us at LGCAP@gov.bc.ca.

Signature captured



2024-07-24 15:57:00 Pacific Daylight Time