

Confirmation number: 0194D52C

Submitted date: 2023-07-31 12:20:17 Pacific Daylight Time

LGCAP Year 2 Survey

Introduction

Reaching [net-zero emissions](#) and adapting to a changing climate will require a whole-of-society approach. The new 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](#) and [Program Guide](#).

What is climate action?

For the purposes of this program, a climate initiative or action is one that reduces greenhouse gas (GHG) emissions 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](#) (global 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.

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, attest 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 held in reserve will be spent by March 31, 2025.
 - That a completed and signed version of this form and survey contents will be publicly posted by September 30, 2023.

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. Attest that funds will be allocated to climate initiatives before submitting your survey.
 3. For communities with populations of 15,000+, measuring and reporting local government or Nation's corporate emissions is required.
- Optional open-ended questions asking for one or more initiatives related to climate action may be highlighted in the LGCAP Year 2 Summary Report or other Program materials to acknowledge innovative local climate solutions.

2. Deadline to submit the survey & attestation form

- The deadline for submitting your survey and attestation form is 4 PM PDT on July 31, 2023.

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, 2023.

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

For example: Can include staff in engineering, emergency management, sustainability, transportation, waste management, etc. If a staff member is a climate action coordinator and works 100% on climate-related issues, add 1.0. 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.

17.0

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

Yes

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

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

Please indicate the date the plan was adopted/approved.
If you don't remember the month, you can enter "01" for January.

2020-12

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

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

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

No

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

Lack of jurisdiction.

Lack of financial resources.

Lack of provincial or federal government support or collaboration.

Corporate Greenhouse Gas Emissions

Measuring corporate emissions is a Program requirement for all communities with a 2020 population of 15,000 and above ([see population statistics here](#)). Corporate 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:

- [Scope Summary Document](#),
- [Corporate Inventory Reporting Tool](#),
- [Becoming Carbon Neutral Guidebook](#) (Scope),
- [Carbon Neutral Workbook](#) (Scope),
- [Contracted Services Emissions Guidance](#),
- [Contracted Emissions Calculator](#),
- [2022 BC Best Practices Methodology for Quantifying GHG Emissions](#), and
- [Emission Factors Catalogue](#).

Question 5: For the 2022 calendar year, has your local government or Nation measured and reported associated corporate GHG emissions?

Yes

If your local government or Nation measured 2022 corporate GHG emissions, please report the number of corporate GHG emissions from services delivered directly by your local government (in tonnes of carbon dioxide equivalent).

893

If your local government or Nation measured 2022 corporate GHG emissions, please report the number of corporate GHG emissions from contracted services (in tonnes of carbon dioxide equivalent).

305

If your local government or Nation measured 2022 corporate GHG emissions, please report the total number of corporate GHG emissions from both directly delivered and contracted services (in tonnes of carbon dioxide equivalent).

This would be the sum of the two questions above.

1198

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

424

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

779

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

Noteworthy Assumption: Contractor emissions that align with LGCAP scope were estimated based on contract service, average fuel line-item purchase value, and the use of diesel fuel.

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 2022 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)
2020

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. every 5 years)?

2020, and at 3-5 year interval

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).

2030

Reduction (format: e.g., 40%)
75%

Baseline Year (format: 2007)
2007

2040

Reduction (format: e.g., 40%)
net zero

Baseline Year (format: 2007)
2007

Question 8: The Province has also committed to introducing a target of net-zero emissions by 2050. Does your local government or Nation have a net-zero or carbon-neutral emissions target?

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

Question 9: If data was provided by the Province, which three supporting indicators would be most valuable to your local government or Nation to advance climate action?

Walk score: Proximity to services

Proximity to transit: Persons, dwelling units and employment within walking distance of a "quality" transit stop/line

Other

Fuel sales data captured at local fueling stations for 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 2024 or 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 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 10-12, 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 or completed in the 2022 calendar year related to the buildings sector.

The buildings and communities sectoral target for the province is 59% to 64% emissions reductions by 2030.

Highest efficiency standards for new space and water heating equipment

Step Code adoption

Zero Carbon Step Code

Net zero buildings commitments

Efficiency upgrades to public buildings

Demand-side management

Optional: Please highlight a community project(s) that was in-progress or completed in the 2022 calendar year related to buildings.

Low Carbon Heritage Renewal of the Civic Theater The Nelson Civic Centre Complex, constructed in 1935, is home to several community amenities. The Civic Centre contributes to 30% of Nelson's corporate building greenhouse gas (GHG) emissions. In 2022, the City secured funding from the CleanBC Communities Fund, to plan and implement deep energy retrofit measures. These measures involve wrapping the building's exterior with insulation, replacing single-pane windows, upgrading mechanical systems, and redesigning the main entrance concourse to enhance accessibility and make use of passive solar resources. When these measures are fully implemented they are expected to result in an 80% reduction in total GHG emissions.

Question 11: Please indicate all climate initiatives your local government or Nation had in-progress or completed in the 2022 calendar year related to the transportation sector.

The transportation sectoral target for the province is 27% to 32% emissions reductions by 2030.

Demand-side management to reduce distance travelled (single-occupancy vehicle commute reduction programs, parking disincentives)

Improving or expanding public transportation

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

Revising existing bylaws or implementing new ones to support active transportation

Active transportation planning

Active transportation infrastructure investments

Electric vehicle charging studies/planning

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.

Optional: Please highlight a community project(s) that was in-progress or completed in the 2022 calendar year related to transportation.

The City of Nelson's Downtown Parking Strategy released in 2021, aims to address various parking-related issues and improve the parking experience in the downtown area. The strategy includes implementing fees for residential parking permits, considering the introduction of second permits for residents, providing parking options for visitors, increasing parking enforcement, and supporting the adoption of electric vehicles. The strategy also emphasizes the need for effective enforcement, increased compliance, and the future-proofing of parking requirements. In 2022, the City implemented small car parking incentives, and reduced cash-in-lieu for reducing parking counts. The City of Nelson received funding for active transportation (AT) infrastructure improvement (works to be completed in 2023). The funding facilitated the completion of conceptual design plans for four key AT infrastructure projects occurred in 2022.

Question 12: Please indicate all climate initiatives your local government or Nation had in-progress or completed in the 2022 calendar year related to community-wide action.

Organics diversion

Optional: Please highlight a community project(s) that was in-progress or completed in the 2022 calendar year related to community-wide action.

The development of Canada's first Pre-Treated Organics Diversion Program was underway in 2022. To achieve a 75% reduction in community GHG emissions by 2030 as outlined in our Nelson Next Climate Plan, the implementation of a city-wide Pre-treated Organics Diversion Program goes beyond business as usual to reimagine how we divert household food waste. Currently, the City of Nelson does not run an organics diversion program. With the exception of backyard composting, all household food waste is sent to landfill. Nelson will launch the program in June of 2023 and over the course of the year will disperse 1,600 pre-treatment devices to residences to divert their food waste. This represents approximately 1/3 of households and this larger pilot will be studied in anticipation of expanding the program city-wide. Pre-treating food waste is unique compared to the traditional methods of collecting wet food waste and Nelson will be the first 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 adaptation principles into decisions and everyday activities. One requirement of this program is to report on projects linked to one or more objectives from the CleanBC Roadmap and/or the CPAS.

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 [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 completed or had in-progress in the 2022 calendar year to adapt to and build resilience to climate impacts.

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 (floods, wildfire, etc.)

Public engagement on climate risks and actions

Providing training (adaptation and mitigation skills)

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

Creating data systems to support climate action

Developing emergency/hazard response plans

Optional: Please highlight one or more climate adaptation project(s) that were completed or in-progress in the 2022 calendar year to reduce risk and increase resilience.

A volunteer FireSmart day was organized to enhance the resilience of the Rail Trail fire guard above Nelson. This collaborative effort involved 30 community volunteers, the Regional District of Central Kootenays, City of Nelson, and the BC Wildfire Service. It is part of a broader initiative to mitigate wildfire risks in the community and promote the application of these principles on private properties. With rising temperatures, drought, and increased development in the Wildland Urban Interface (WUI), this climate adaptation project aims to minimize the risk to residents and the entire community. It is an ongoing response to the impact of climate change, which has intensified and prolonged wildfire seasons throughout the province. By removing dead and fallen woody debris, this initiative safeguards those living along the WUI and contributes to overall community safety.

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

Yes

Please provide the link to the public assessment if available.

<http://www.nelson.ca/DocumentCenter/View/4278/City-of-Nelson-Hazard-Risk-and-Vulnerability-Analysis-2019?bidId=>

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

For each selection, please then 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

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

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 impacts identified in Question 15? Please select one or more of what you consider the most valuable types of information for planning.

Local observations and/or Indigenous 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 you indicated as most significant in Question 15, which groups are most vulnerable to the impacts of climate hazards?

Low-income households

Indigenous Peoples

Racialized communities

Newcomers to Canada (immigrants and refugees)

People experiencing homelessness

Seniors

Persons with disabilities

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 identified in Question 15, please specify the associated adaptation measures completed or in-progress in the 2022 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

Overland flooding

Adaptation measure

Flood Response Plan

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

Adaptation measure

NA

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

Collaboration with Doctor's & Nurses for Planetary Health related to wildfire smoke impacts

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 community ensure equitable access to and distribution of climate action opportunities and benefits?

Please select all that apply.

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 2022 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 2022, the Nelson Next Ambassadors engaged in over 215 meaningful conversations with residents, resulting in tangible increases in enrollment in City Climate Programs.

LGCAP Year 1 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 one of the Program (2022)? Please select all that apply and indicate the total dollar value associated with each initiative.

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.

Community-wide initiatives
114082

Community-Wide - Please select from the list.

Organics diversion

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

The funding from the LGCAP has been instrumental in increasing the capacity within our budget enabling us to hire a coordinator to oversee the design, development, and implementation of Canada's first Pre-Treated Organics Diversion Program.

Question 21: 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

600000

Question 22: Please estimate the total investment in climate mitigation your local government or Nation made in 2022, including from sources beyond your LGCAP funds. For guidance, this includes (but is not limited to): integrating climate change mitigation (i.e. GHG reduction) measures into policies, strategies and planning; improving education, raising awareness of climate change causes and solutions, and increasing human and institutional capacity with respect to climate change mitigation.

Format: no dollar sign and up to two decimals If no estimate is possible, please provide 0 as an answer.

0

Question 23: If estimated and available, what are the expected emissions reductions from these investments?

Format: in tonnes CO₂e

16849

Question 24: Please estimate the total investment in climate adaptation and resilience your local government or Nation made in 2022, including from sources beyond your LGCAP funds. For guidance, this includes all actions that strengthen resilience and the ability to adapt to climate-induced impacts. Examples include (but are not limited to): addressing climate-related hazards; integrating adaptation 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 adaptation, and impact reduction and early warning systems.

Format: no dollar sign and two decimal places If no estimate is possible, please provide 0 as an answer.

0

Question 25: Does your community 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 26: What is the value in the Program's continuity for your community?

Optional Note on posting the survey publicly: - Optional questions and responses such as this one 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. - All information from required questions must be included.

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.

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 held in reserve will be spent by March 31, 2025.
3. That a completed and signed version of this form and survey contents will be publicly posted by September 30, 2023.

Attested by (first name, last name)

Chris Jury

Professional title

Chief Financial Officer

Local government or Modern Treaty Nation

City of Nelson

Date

2023-07-27

Attestor signature

Signature captured

A handwritten signature in blue ink, appearing to be 'C. Jury', is written over the 'Signature captured' text.

2022 Local Government Climate Action Program Corporate Emissions Inventory Summary Report



The BC Local Government Climate Action Program (LGCAP) provides funding to local governments and Modern Treaty Nations to support climate action initiatives aimed at emissions reduction and enhancing community resilience. The City of Nelson falls below the 2022 LGCAP population threshold for emissions reporting. However, Nelson 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). As a result, the 2022 LGCAP emissions profile is intended as an initial 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 retained GHG Accounting to support the 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 emissions (i) 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

In the absence of direct fuel consumption data for City contractors, the City estimated 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 a diverse range of contractors. The City is now working to standardize 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.

Emissions Profile

The City of Nelson's corporate emissions profile, seen in Figure 1, distributes the total 1198 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.



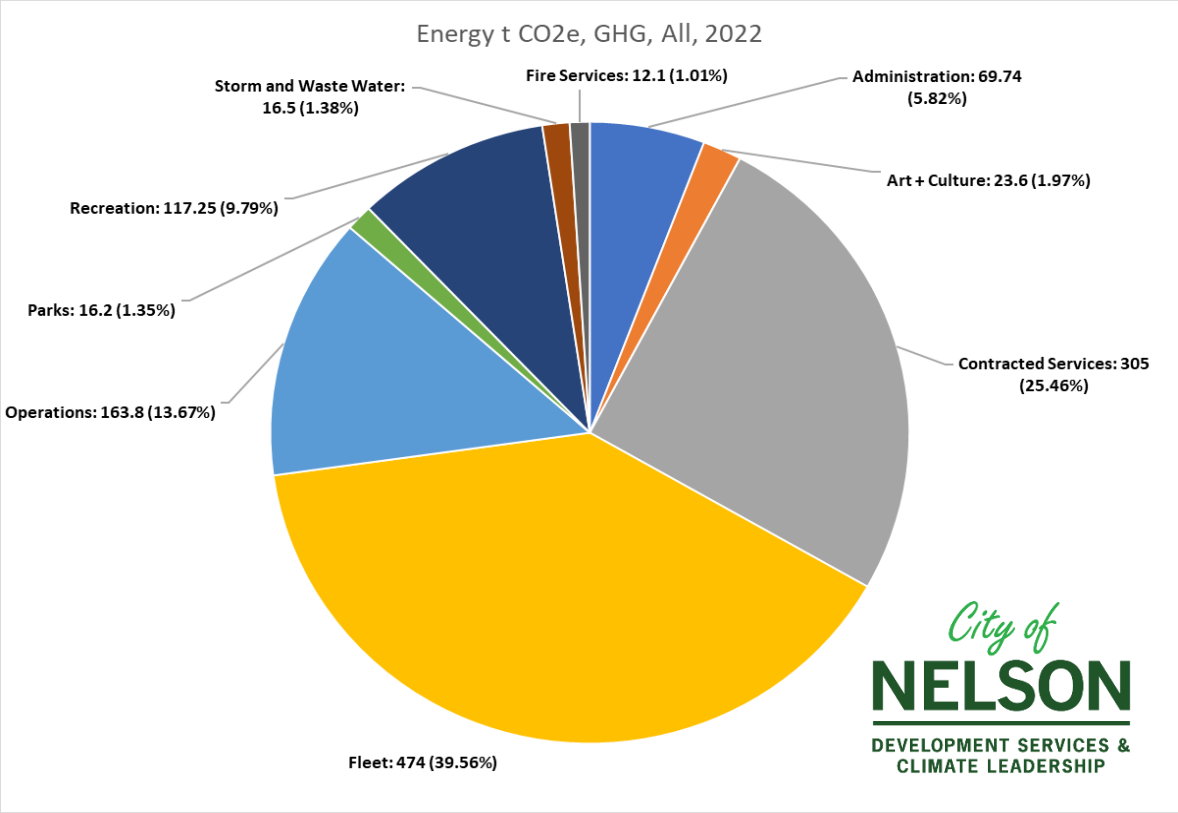


Figure 1: illustrates the City of Nelson’s corporate emissions profile broken down into LGCAP designated categories.

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.