

City of Terrace 2023 LGCAP 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.

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.

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.

0.5

Question 2: Does your local government or Nation have a 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 the top 3 challenges impeding the advancement of climate action in your community.

Lack of staff capacity or expertise.

Lack of financial resources.

Lack of data or information.

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).

1309

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).

0

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.

1309

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

845

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

399

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).

Contracted Service emissions not accounted for in 2022.

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, community GHG emissions were not reported because the 2022 Provincial Community Energy and Emissions Inventory data has not been released.

No, we do not measure and report community-wide emissions data due to lack of financial capacity.

No, we do not measure and report community-wide emissions data due to lack of staff and technical capacity.

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

No

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).

2050

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

100% (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?

Commute by mode: Employed labour force by mode of commute

Walk score: Proximity to services

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

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.

Step Code adoption

Efficiency upgrades to public buildings

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

Energy Efficiency upgrades to City facilities, including the City's Sportsplex and RCMP Boilers.

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.

Active transportation planning

Active transportation infrastructure investments

Electric vehicle charging studies/planning

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

The City's Green Fleet Planning process was started in late 2022. This plan will provide a decarbonization roadmap for the City that outlines

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.

Enhance existing curbside organic waste pickup procedures.

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.

Undertaking or completing a risk assessment or Hazard Risk Vulnerability Assessment (HRVA)

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

Hydro climatological data collection

Monitoring climate risks (floods, wildfire, etc.)

Public engagement on climate risks and actions

Providing training (adaptation and mitigation skills)

Creating data systems to support climate action

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.

The City's Climate Change Adaptation Plan started development in the summer of 2022. This plan will identify vulnerabilities and risks caused by climate change and help guide the development of plans and policies that will save costs and build climate resiliency into our infrastructure and everyday operations.

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

Yes

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

Medium

Wildfire

Medium

Overland flooding

Short

Wind, rain, and other storm events

Short

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

Short

Human health impacts

Medium

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

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

Cooling stations.

Extreme cold, snow and ice

Adaptation measure

Warming centres.

Water shortages

Adaptation measure

Watering restrictions.

Wildfire

Adaptation measure

Firesmart program.

Overland flooding

Adaptation measure

Providing Sandbags, EMCR support.

Wind, rain, and other storm events

Adaptation measure

Storm drainage maintenance and enhanced infrastructure.

Ecological impacts

Adaptation measure

Erosion control measures: Street reconstruction and bank protection.

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 collecting and analyzing disaggregated and/or spatial data on the impacts of climate policy and change.

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.

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.

Staffing
7500

Climate study
15000

Risk and vulnerability assessment
18600

Vulnerability and risk reduction strategy
18600

Climate engagement
6200

Transportation initiatives
28000

Put in reserve for future project
8500

Corporate emissions inventory measurement and reporting
18600

Transportation - Please select from the list.

Zero Emission Vehicles fleet adoption

Electric Vehicle charging infrastructure plans or number of public installations

Reserve funding - How will funds be allocated?

Please indicate the project(s) funds have been allocated to.

Priority actions have been identified in City's upcoming Climate Change Adaptation Plan.

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

The City's Climate Change Adaptation Plan and the the City's Green Fleet Plan.

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

10000

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.

112500

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.

2857000

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.

No

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.

Annual, guaranteed funding means that we can plan longer-term projects, and feel more confident that our plans will be supported with funding to implement the actions they propose. Structuring the program as a non-competitive funding source allows staff to work more effectively by focusing their capacity on designing and implementing these projects, rather than on grant writing and applications.

Local Government Climate Action Program Attestation Form

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)

Khalie, Genereaux

Professional title

Deputy Director of Finance

Local government or Modern Treaty Nation

City of Terrace

Date

2023-07-31

Attestor signature

Signature captured

KG