

# Local Government Climate Action Program 2022 Survey Questions

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## 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.

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

Yes

No

If yes, please select the type of plan(s) from the list.

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

Integrated climate plan (addressing mitigation and adaptation)

Integrated climate plan (addressing mitigation and energy)

- Integrated climate plan (addressing adaptation and energy)
- Standalone mitigation plan
- Standalone adaptation plan
- Standalone energy-related plan
- Don't know

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

If yes, please include a link to the document or webpage if available.

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.
- No, we are not intending to undertake one due to lack of financial capacity.
- No, we are not intending to undertake one due to lack of expertise or technical capacity.

**Question 3:** Has your Nation declared a climate emergency?

- Yes
- No

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

- Lack of jurisdiction.
- Lack of staff capacity or expertise.
- Lack of financial resources.

- Lack of data or information.
- Lack of local political support.
- Lack of provincial or federal government support or collaboration.
- Other.

## Government Greenhouse Gas Emissions

Measuring emissions that result from the provision of government services is a Program requirement for all communities with a 2020 population of 15,000 and above. For reporting purposes, GHG emissions are those produced by the delivery of Modern Treaty Nation “traditional services” including:

- Fire protection,
- Solid waste management,
- Recreational / cultural services,
- Road and traffic operations,
- Water and wastewater management, and
- 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),
- [Guidance on Including Contracted Emissions in Corporate Inventories](#),
- [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 Nation measured and reported associated government GHG emissions?

- Yes
- No
- No, but for a past year. (Please enter most recent year completed: YYYY)

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

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

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

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

If your Nation measured 2022 government GHG emissions, please report the total number of 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.

Please provide the link to the public report if available.

Optional

If not, please select all that apply.

- No, due to lack of staff and technical capacity.
- No, due to lack of financial resources.
- No, due to lack of awareness regarding which GHG accounting tools are available.
- No, emissions are measured but not reported.

Measurement is in-progress.

Government GHG emissions inventory is not developed annually.

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

## Community-Wide Greenhouse Gas Emissions

The Climate Action Secretariat (CAS) is aware that some Modern Treaty Nations are developing their own community-wide GHG emissions inventories. A better understanding of community-wide emissions measurement across B.C. will help track progress over time.

**Question 6:** For the 2022 calendar year, have community-wide GHG emissions been measured for your Nation?

Yes

In-progress

No

If yes, please report your community-wide transportation sector emissions in tonnes of CO<sub>2</sub>e for 2022.

If yes, please report your community-wide buildings sector emissions in tonnes of CO<sub>2</sub>e for 2022.

If yes, please report your community-wide solid waste sector emissions in tonnes of CO<sub>2</sub>e for 2022.

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

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

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

- Yes
- No

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

**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 Nation's target(s).

	<b>Reduction (format: e.g., 40%)</b>	<b>Baseline Year (format: 2007)</b>
<b>2030</b>		
<b>2040</b>		
<b>2050</b>		

If your 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, ...

**Question 8:** The Province has also committed to introducing a target of net-zero emissions by 2050. Does your 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))
- Yes: Carbon neutral (Carbon neutral refers to a jurisdiction achieving a state of no net carbon dioxide emissions being released into the atmosphere (e.g. Reducing emissions as far as practical and purchasing offsets or other similar mechanisms))
- No

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

- Housing type: Private dwellings by structural type
- Floor area: Average floor area by building category and era
- Residential density: Population and dwelling units per "net" land area
- Commute by mode: Employed labour force by mode of commute
- Greenspace: Land area that is parks and protected greenspace
- Walk score: Proximity to services
- Proximity to transit: Persons, dwelling units and employment within walking distance of a "quality" transit stop/line
- Other

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

## 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 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 10:** Please indicate all climate initiatives your 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.

- Zero-carbon new construction (please enter date in pop-up textbox below)
- Highest efficiency standards for new space and water heating equipment
- Topping up Provincial energy efficiency programs
- Step Code adoption
- Zero Carbon Step Code
- Zero-carbon heating requirement
- Net zero buildings commitments
- Efficiency upgrades to public buildings
- Demand-side management
- Not applicable
- Other

Please enter date effective for zero-carbon new construction requirement.

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



**Question 11:** Please indicate all climate initiatives your 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
- Mode shift targets in Official Community Plan, Regional Growth Strategy or other guiding document
- Established personal transportation target goals, and measures to reach them, in annual reports – must include target goals for vehicle kilometre reduction, mode share for active transportation and zero-emission vehicles – and report on progress
- Established commercial transportation target goals, and measures to reach them, in annual reports – must include target goals for vehicle kilometre reduction, mode share for energy efficient commercial transportation and zero-emission vehicles – report on progress
- 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
- 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
- Electric vehicle charging infrastructure investments
- Streamlined hydrogen fuelling station permitting process
- Required new and/or existing gasoline and card lock fuel stations to include zero-emission vehicle infrastructure development
- Required green roads certification for any new or significantly modified existing roads
- Not applicable

Other

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

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

- Complete, compact communities
- Organics diversion
- Circular economy or zero waste strategy
- Sustainable procurement policy
- Energy emission plans
- Renewable energy investments (e.g. district energy, waste heat recovery, biomass)
- Green/blue carbon sequestration
- Compliance carbon offset projects
- Voluntary carbon offset projects
- Bylaws updated to allow at least three units in all single-family zones
- Other
- Not applicable

**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
- Urban containment boundaries
- Official Community Plans
- Regional Growth Strategies
- Community Development Plans

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

## 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, Nations are integrating 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 [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 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.
- Collaboration with other communities on resilience planning/initiatives
- [Hydro climatological](#) data collection
- 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
- Utilizing natural assets/nature-based solutions
- Developing emergency/hazard response plans
- Not applicable
- Other

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.

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

- Yes
- No

If yes, please provide the link to the public assessment if available.

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

- No, but we are currently undertaking one and it will be complete in the next two years.
- No, we are not intending to undertake due to lack of financial capacity.
- No, we are not intending to undertake due to lack of staff and technical capacity.
- No, we are waiting for direction from the Provincial Government before undertaking an assessment.

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

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
- Extreme cold, snow and ice
- Water shortages
- Wildfire
- Overland flooding
- Coastal flooding, storm surge events and/or other coastal hazards
- Wind, rain, and other storm events
- Ecological impacts (examples of ecological impacts include biodiversity loss and erosion)
- Cultural impacts (examples of cultural impacts include threats to identities, languages, and livelihoods)
- Human health impacts
- Not applicable/no hazards
- Not sure
- Other

**Question 16:** What information do you need to know to be able to plan effectively for the future of your Nation 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.

- 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/rightsholder engagement and support
- Information on partnership opportunities
- Examples of actions taken by other jurisdictions
- Not sure
- Other

**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
- Newcomers to Canada (immigrants and refugees)
- People experiencing homelessness
- Elders/seniors
- Women and girls
- Men
- Persons with disabilities
- LGBTQIA2S+: Lesbian, Gay, Bisexual, Transgender, Queer or Questioning, Intersex, Asexual, Two-Spirit, and additional sexual orientations and gender identities
- Not sure
- Other

**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.

Hazard	Adaptation measure
Extreme heat and heat stress	
Extreme cold, snow and ice	
Water shortages	
Wildfire	
Overland flooding	
Coastal flooding, storm surge events and/or other coastal hazards	
Wind, rain, and other storm events	
Ecological impacts	
Human health impacts	
Cultural impacts	
Other	

## 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 Nation 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 populations 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 populations most impacted by climate change.

There are no specific measures in place to ensure equitable access to and distribution of opportunities and benefits.

Not sure how to integrate equity into our climate action work.

Not sure if equity is being integrated into our climate action work.

Optional: Please highlight a climate initiative completed or in-progress in the 2022 calendar year that promotes equity and inclusion.

## 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 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 Nation spend its LGCAP funding on for year one of the Program (2022)? Please select all that apply and indicate the 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

Climate study

Energy study

Asset management

Risk and vulnerability assessment

Emergency response planning

Vulnerability and risk reduction strategy

Climate finance planning



- Climate engagement
- Resilient infrastructure
- Green infrastructure
- Natural assets evaluation and accounting
- Buildings initiatives
- Transportation initiatives
- Community-wide initiatives
- Put in reserve for future project
- Corporate emissions inventory measurement and reporting
- Leveraging funds from other sources/ grant stacking
- Other

Resilient Infrastructure - Please select from the list.

- Buildings
- Transportation
- Government Infrastructure (wastewater treatment facilities, etc.)
- Energy systems

Green Infrastructure - Please select from the list.

- Parks & other green space(s)
- Forest(s)
- Indigenous food systems
- Green streets/alleys/corridors
- Green roof(s) or wall(s)
- Permeable surfaces or substrates

Stormwater management

Wetlands

Buildings - Please select from the list.

Zero-carbon new construction requirement

Highest efficiency standards for new space and water heating equipment

Enhancing energy efficiency programs

Step code adoption

Carbon pollution standard

Zero-carbon heating requirement

Net zero buildings commitments

Efficiency upgrades to public buildings

Transportation - Please select from the list.

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

Encouraging "mode shifting" to more energy efficient forms of transport

Mode shift targets in Official Community Plan, Regional Growth Strategy or other guiding document

Zero Emission Vehicles fleet adoption

Active transportation plan or investments

Transit/pedestrian-oriented development regulation, multi-modal networks

Electric Vehicle charging infrastructure plans or number of public installations

Community-Wide - Please select from the list.

Public awareness and education campaign

Organics diversion

- Renewable energy project
- Developing or updating Official Community Plan or Regional Growth Strategy
- Circular economy or zero waste strategy
- Sustainable procurement policy
- Community Energy and Emissions Plan
- Green/blue carbon sequestration
- Carbon offset projects
- Complete, compact communities (infill development, rezoning, etc.)

Renewable Energy - What is the installed capacity (MW)?

Reserve funding - How will funds be allocated?

- Please indicate the project(s) funds have been allocated to.
- No decision has been made.

Optional: Please highlight the initiative(s) your Nation's LGCAP year one funding will support. Describe the initiative(s) in one to five paragraphs.

**Question 21:** How much additional funding for climate action were your Nation 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

**Question 22:** Please estimate the total investment in climate mitigation your 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.

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

Format: in tonnes CO<sub>2</sub>e

**Question 24:** Please estimate the total investment in climate adaptation and resilience your 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.

**Question 25:** Does your 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

No

**Question 26:** What is the value in the Program's continuity for your Nation?

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.

# 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:

- 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.

Attested by (first name, last name)

Professional title

Modern Treaty Nation

Date

Attestor signature