

CITY OF ABBOTSFORD

Local Government Climate Action
Program (LGCAP)
Survey Report for 2022



JULY 2023



BRITISH
COLUMBIA



ABBOTSFORD

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).



Survey Content:

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.

5.5

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

Yes

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.

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 local government or Nation declared a climate emergency?

Yes

No

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

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.

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

Yes

No

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

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).

4169

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).

270

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.

4439

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

1982

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

1952

Please provide the link to the public report if available.

Optional

Not yet available. Corporate and community climate action update, including LGCAP survey report, brought to Council annually prior to LGCAP survey posted publicly.

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).

N/A

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

- Yes
- In-progress
- 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, community GHG emissions were not reported because the 2022 Provincial Community Energy and Emissions Inventory does not report transportation data.
- 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 community or Nation measured and reported community-wide emissions in the past?

- Yes
- No

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 community emissions were measured but not publicly disclosed. Reporting interval has varied dependent on financial and staff capacity as well as availability of Provincial CEEI data.

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).

	Reduction (format: e.g., 40%)	Baseline Year (format: 2007)
2030		
2040	40% per capita	2007
2050		

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, ...

Target 2025 20% reduction per capita, baseline 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))
- 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 local government or 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

Data regarding riparian areas/watercourses in the City; any information on overall ecosystem quality/health, or any detailed mapping layers

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

N/A

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.

- 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

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

- Adoption of the City's first Green Buildings Policy – i.e., a corporate green buildings policy that requires all new buildings, additions, and major renovations of City-owned buildings to be net zero emissions in operations by reducing load demand, incorporating low emissions systems, and balancing remaining emissions by renewable energy or offsets.
- Developed and delivered a series of four full-day high performance building workshop in collaboration with industry expert and presenter and CHBA Fraser Valley focused on building envelope.
- Implemented Electric Vehicle (EV) ready parking requirements in all new residential construction that will ensure access to sufficient charging for at least 1 EV for every new household in Abbotsford.
- Continued use of rainwater harvesting tanks at civic locations including Abbotsford Centre for ice making, Tradex for flushing toilets, and the Operations Yard Native Plant Nursery for watering trees and boulevards.

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.

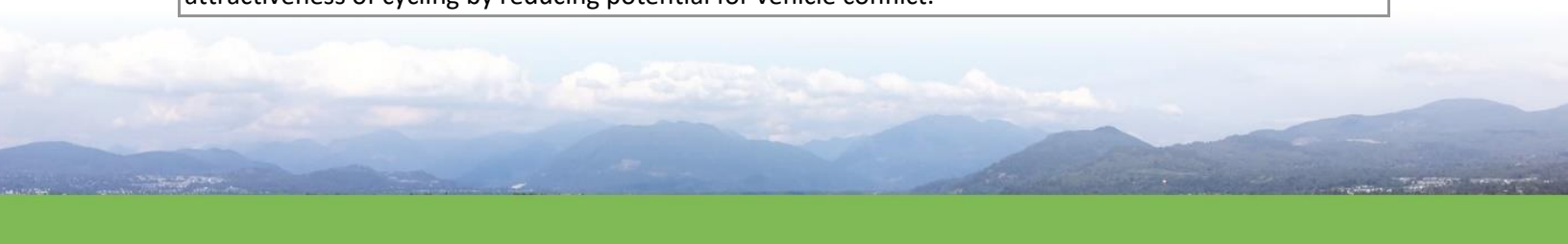
- Demand-side management to reduce distance travelled (single-occupancy vehicle commute reduction programs, parking disincentives)
- Improving or expanding public transportation
- Mode shift targets in Official Community Plan, Regional Growth Strategy or other guiding document
- Established personal 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 community project(s) that was in-progress or completed in the 2022 calendar year related to transportation.

- Implemented BC Transit’s program providing free transit for ages 12 and under, making greener transportation more accessible and providing more options for families to travel sustainably.
- Construction of the Fraser Highway Improvement Project (Phase 1 of 3), which will help to reduce traffic congestion and road safety on this important traffic corridor.
- Installed green cyclist conflict road markings at 10 urban intersections to increase the safety and attractiveness of cycling by reducing potential for vehicle conflict.



- Completed the four-year LED Streetlight Replacement Program in three years. Replaced over 3,300 streetlights with LED fixtures in 2022, resulting in approximately 23% annual emission reduction from streetlights.
- Continued to implement the Green Fleet Strategy and increase use of sustainable fuels, including 24 heavy duty trucks and seven garbage trucks now running completely on renewable diesel. Renewable diesel makes up more than half the fuel consumed by the City's heavy duty trucks and garbage trucks, reducing fleet's carbon footprint by 250 tonnes since 2021 - the same amount as taking 55 cars off the road.

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.

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

- Community Amenity Contributions and Density Bonus Policy update initiated.
- Provided curbside collection services to 26,400 single-family homes and duplexes where over 14,200 tonnes of comingled food and yard waste were collected, and over 4,500 tonnes of recycling, achieving an overall program diversion rate of 63%.
- Almost 70% of homes receiving solid waste services have set up collection day reminders through the Curbside Collection app since it launched in 2016.
- Developed a Contamination Remediation Plan (CRP) as required by Recycle BC to reduce the City's contamination rate by 25% within nine months of implementation.
- Continued the Abbotsford Mission Water & Sewer Commission (AMWSC) water conservation program which includes outdoor water use restrictions, rebates for efficient fixtures and appliances, irrigation and landscape assessments and rebates, subsidized rain barrels, and an extensive public and school education program.
- Secured a \$4.7M grant for the JAMES Plant Biogas Upgrading Project that will upgrade biogas to renewable natural gas (RNG) and produce enough RNG to heat 580 BC homes annually.
- 9,869 wet tonnes of City biosolids were beneficially applied to grassland restoration and agricultural in 2022 in BC.
- AgRefresh was completed in 2022, as part of the Plan 200k Initiative resulting in amendments to the Official Community Plan, and Zoning Bylaw to continue to support, promote and protect agriculture in the City. A new Council Policy for Agricultural Areas was also developed.
- Adoption of the Urban Forestry Strategy that envisions a vibrant urban forest for the City of Abbotsford. An overall increase in the City's urban tree canopy will aid in mitigating the impacts of climate change, and provide opportunities for climate adaption measures.



- Undertook a sport field light condition assessment to identify lighting systems in need of upgrading or replacement.

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.
- 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.

- Continued work with the Province and Sumas First Nation on the Fraser River bank stabilization and flood mitigation.
- Continued design work for a backup power generated for the Barrowtown Pump Station that when complete, will provide resilience to the community should a power failure occur.
- Continued work on the Fishtrap Creek Integrated Stormwater Management Plan that will include climate change factors as part of the assessment.

- Continued the AMWSC Water Shortage Response Plan and water use restrictions to address extreme heat and drought scenarios, and to include stewardship approaches to the way water restrictions are triggered.
- Continued the Cannell Lake limnology program that monitors for changes in raw water quality that could be impacted by climate change.
- Developed the Extreme Hot Weather Plan to ensure City Staff are prepared to support the community in the event of extreme heat events.
- Enhanced Extreme Weather-Ready public education materials to ensure community members are prepared and resilient in the face of various climate-exacerbated weather events (cold, heat, storms, etc).

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

Yes

No

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 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

short

Overland flooding

short

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

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

medium

Not applicable/no hazards

Not sure

Other

Wildfire smoke: 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
- 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
- Indigenous Peoples
- Racialized communities
- Newcomers to Canada (immigrants and refugees)
- People experiencing homelessness
- Seniors
- Women and girls
- 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 Hot Weather Plan, Cooling centres, Community outreach, City Spray parks, Urban Forest Strategy
Extreme cold, snow and ice	Extreme weather shelters, Community outreach, Extreme weather alerts
Water shortages	AMWSC Water Shortage Response Plan, Drinking Water Resilience Project, AMWSC Water Efficiency Plan
Wildfire	Monitor fire risk level, Emergency Operations Centre training, Emergency Support Services training
Overland flooding	Sumas Prairie Flood Mitigation, Updated Development Bylaw regarding infiltration requirement
Coastal flooding, storm surge events and/or other coastal hazards	N/A
Wind, rain, and other storm events	Repair and replacement of storm sewers and culverts, Enhanced Extreme Weather-Ready public education
Ecological impacts	Urban Forest Strategy, Mill Lake Park Master Plan
Human health impacts	Homelessness Action Plan
Cultural impacts	Culture Connect Strategy
Other	Monitor fire risk level, Emergency Operations Centre training, Emergency Support Services training

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.

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.

Continued developing City's residential retrofit strategy framework to advance decarbonization of existing single-family homes. The project will also create value for Abbotsford residents in matters of housing and affordability with an equity lens applied.

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

Climate study

Energy study

8100

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

11330

Transportation initiatives

30952

Community-wide initiatives

4531

Put in reserve for future project

384274

Corporate emissions inventory measurement and reporting

11895

Leveraging funds from other sources/ grant stacking

Other

Expenditures reported in the 2023 LGCAP report will reflect utilization of LGCAP funds secured in 2022. This is due to timing differences in budgeting cycles and the late confirmation of LGCAP program in 2023, thus, spending of these funds are not reflected until the following fiscal year.

For the reporting year 2022, climate action spending was lower than usual as the City experienced difficulties maintaining staffing levels throughout the organization while dealing with unforeseen work related to recovering from widespread flooding events. These challenges affected the City's ability to execute work plans.

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)?

0

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 local government or Nation's LGCAP year one funding will support.

- Corporate Green Buildings Policy development to holistically balance energy use and GHG emission reductions across the full diversity of both new and existing municipal buildings.

- Green Fleet Strategy Implementation through fleet decarbonization with the purchase of two electric Zambonis and light duty trucks

- Enhanced corporate GHG inventory accounting and analysis with the addition of more extensive and comprehensive account options on the subscription platform.

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

910000

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.

1173563



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

Format: in tonnes CO2e

0

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.

3350077.63

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

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.

Contributing to consistent annual reporting along with local governments from across the Province allows the City to not only articulate and celebrate the substantial work underway by departments citywide to reduce GHGs and prepare Abbotsford for the impacts of climate change, but also to increase staff understanding of the various approaches, successes and policies pursued by other cities, as well as benchmark our efforts and look for areas to collaborate with local governments with similar challenges and opportunities.

Sustained and reliable provincial funding through the LGCAP is crucial in supporting the City to address projects, programs and initiatives that advance progress under our urgent climate action portfolio and ultimately achieve our corporate and community climate goals.



Attested by (first name, last name)*

Komal Basatia

Professional title*

GM, Finance & Procurement Services

Local government or Modern Treaty Nation*

City of Abbotsford

Date*

2023-07-25

Attestor signature*

A handwritten signature in black ink, appearing to be 'K. Basatia', enclosed within a rectangular box.