

LGCAP 2024

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Introduction

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

What is climate action?

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

Information collected will:

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

The survey was informed by:

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

Instructions

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

Survey: Word Version

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

Survey: Online Version

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

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

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

- Some fields have formatting considerations (i.e. numbers only). You will not be able to submit the survey and attestation form until all required fields are completed properly. The red text error message will indicate what is needed.
- There is a 9,999 character limit for the open-ended questions.

Attestation Form

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

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

Requirements

1. Reporting

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

2. Deadline to submit the survey & attestation form

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

3. Posting the survey & attestation form publicly

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

Download a copy for your records!

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

Support

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

Thank you!
The LGCAP Team

The Survey

Climate Action Planning

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

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

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

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

3.0

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

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

3.0

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

- Yes
- No

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

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

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

2023-07

- 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

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

<https://www.surrey.ca/about-surrey/sustainability-energy-services/climate-change-action-strategy>

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

- Yes
- No

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

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

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

2023-07

- 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

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

<https://www.surrey.ca/about-surrey/sustainability-energy-services/climate-change-action-strategy>

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

- Yes
- No

Question 4: Please select up to 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 provincial or federal government support or collaboration.
- Competing priorities.
- Other.

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

- Yes
- No

Traditional Services Greenhouse Gas Emissions

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

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

Please see the following resources for guidance:

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

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

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

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

13433.5

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

3916.7

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

17350.2

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

2023 B.C Best Practices Methodology for Quantifying GHGs
(https://www2.gov.bc.ca/assets/gov/environment/climate-change/cng/methodology/2023_pso_methodology_for_quantifying_greenhouse_gas_emissions.pdf)

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

8922.0

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

6741.0

Community-Wide Greenhouse Gas Emissions

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

The Community Energy and Emissions Inventory (CEEI) initiative provides a provincial framework for tracking and reporting energy and GHG emissions at a community-wide scale. It

is published with a two-year lag, however, raw data can be requested by local governments that wish to measure and report their community-wide emissions for the buildings and solid waste sectors ahead of publication.

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

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

- Yes
- In-progress
- No

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

- No, community GHG emissions were not reported because the 2023 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.
- 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. 2022, every 5 years)?

Inventory for 2021 calendar year data was completed in 2024. Interval for reporting is to be determined based on the availability of data.

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

1410009.8

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

1230700.4

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

66366.9

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

- Global Protocol for Community-Scale Greenhouse Gas Emissions Inventories (GPC).
- GCoM Common Reporting Framework (CRF).
- 2006 IPCC Guidelines for National Greenhouse Gas Inventories.
- U.S. Community Protocol for Accounting and Reporting of Greenhouse Gas Emissions (ICLEI USA).
- Regional specific methodology (CEEI).
- Jurisdiction specific methodology.
- Other.

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

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

	Reduction Percentage (format: e.g., 40)	Baseline Year (format: e.g., 2007)
2030	45	2010
2040		
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, ...

Net zero by 2050

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

Please select all that apply.

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

- Yes: Corporate carbon neutrality (Carbon neutral refers to an organization reducing emissions as much as practicable and then offsetting the remainder by purchasing offsets or other similar mechanisms)
- Yes: Corporate net-zero target (Net-zero refers to a jurisdiction or organization achieving a balance between greenhouse gas emissions produced and removed from the atmosphere (e.g. planting trees or using carbon capture technologies))
- No

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

- 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.

Surrey has a corporate emissions target of absolute zero, or a 100% reduction in emissions by 2050. There would be value in the Province providing local governments the full datasets required to complete GPC-compliant inventories, including high-quality transportation data based on measured vehicle kilometers traveled.

Provincial Policy Alignment - Mitigation

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

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

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

- Corporate
- Community

- Not applicable

Corporate buildings policies, programs and actions.

- Highest efficiency standards for new space and water heating equipment.
- BC Energy Step Code adoption (Step 3 or higher).
- Zero Carbon Step Code adoption.
- Efficiency upgrades/retrofits.
- Requirement to use mass timber in buildings construction.
- Requirement to measure embodied carbon.
- Other.

Low carbon upgrades/retrofits. New facility expansion project designed to be high performance, near zero emissions.

Community-wide buildings policies, programs and actions.

- Topping up Provincial energy efficiency incentive programs.
- Highest efficiency standards for new space and water heating equipment.
- BC Energy Step Code adoption (Step 3 or higher).
- Zero Carbon Step Code adoption.
- Requirement to use mass timber in buildings construction.
- Requirement to measure embodied carbon.
- Other.

Review of building design guidance to identify opportunities to remove barriers to high performance, low carbon, resilient buildings.

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

Optional

Step 3 of Step 2 if connected to Surrey City Energy or satisfies low carbon energy requirements

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

Optional

Step 3

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

A study was undertaken to identify opportunities within the City's building design guidance to better accommodate high-performance, low carbon, resilient buildings, while preserving the ability to achieve other City objectives for development and design. The project consisted of a review of the City's current building design guidance in a range of documents, including form

and character guidelines and zoning bylaw, engagement with staff and industry representatives and a best practices review. Recommendations from the study will be considered for future updates to the City's building design guidance.

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

- Corporate
- Community
- Not applicable

Corporate transportation policies, programs and actions.

- Programs to increase high-occupancy (2 or more people) vehicle trips (i.e. carpooling).
- Established personal (passenger) transportation target goals, and measures to reach them, in annual reports – may include target goals for vehicle kilometre reduction, mode share for active transportation and zero-emission vehicles.
- Established commercial transportation target goals, and measures to reach them, in annual reports – may include target goals for vehicle kilometre reduction, mode share for energy efficient commercial transportation and zero-emission vehicles.
- 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.
- Active transportation infrastructure investments.
- Active transportation education and encouragement programs.
- Expanded micromobility access, bylaws and/or infrastructure (e.g. introduced or expanded bike/e-bike/e-scooter sharing programs, built new bike/scooter lanes, updated bylaws for use of bikes/scooters).
- Installation of secure bike parking (i.e. bike valet).
- Electric vehicle charging studies/planning.
- Electric vehicle charging infrastructure investments.
- Required new and/or existing gasoline and card lock fuel stations to include zero-emission vehicle infrastructure development.
- Not applicable.
- Other.

Community-wide transportation policies, programs and actions.

- Programs to increase high-occupancy (2 or more people) vehicle trips (i.e. carpooling).
- Improving or expanding public transportation.
- Mode shift targets for passenger and/or commercial transportation (shifting from private vehicles to sustainable modes like walking, cycling and public transit) in Official Community Plan, Regional Growth Strategy or other guiding documents.
- Established personal (passenger) transportation target goals, and measures to reach them, in annual reports – may include target goals for vehicle kilometre reduction, mode share for active transportation and zero-emission vehicles.

- Established commercial transportation target goals, and measures to reach them, in annual reports – may include target goals for vehicle kilometre reduction, mode share for energy efficient commercial transportation and zero-emission vehicles.
- 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.
- Active transportation education and encouragement programs.
- Expanded micromobility access, bylaws and/or infrastructure (e.g. introduced or expanded bike/e-bike/e-scooter sharing programs, built new bike/scooter lanes, updated bylaws for use of bikes/scooters).
- Bylaws that reduce or eliminate off street parking requirements.
- Implement pedestrian plazas, car-free streets (temporary or permanent) or limited-access automobile streets.
- Installation of public secure bike parking (i.e. bike valet).
- Neighbourhood or community-wide speed limit reductions.
- Electric vehicle charging studies/planning.
- Mandatory EV infrastructure in new construction.
- Established electric vehicle charging ready bylaws.
- Electric vehicle charging infrastructure investments.
- Streamlined hydrogen fueling 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.

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

1. Lena Shaw Elementary School Streets Pilot encouraged and promoted active school travel by restricting vehicular traffic on the road fronting the school. Students and caregivers were encouraged to walk or bike to school when the street frontage was activated to celebrate sustainable transportation to school. 2. Surrey City Centre Protected Cycling Network Project – using quick-build and tactical infrastructure, the City implemented 5km of protected cycling infrastructure in Surrey City Centre to promote cycling and safety. The project connected rapid transit, busses, employment centers and amenities in the heart of Surrey. 3. R6 Rapid Bus and Bus Priority project – Working with TransLink, the City supported the R6 Rapid Bus implementation by reallocating private vehicle road space on Scott Road to allow for bus speed and priority measures. This major project provides fast and frequent bus service on a corridor which has the highest transit ridership of any transit route in the South of Fraser Region.

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

- Corporate
- Community
- Not applicable

Corporate climate policies, programs and actions

- Circular economy or zero waste strategy.
- Sustainable procurement policy.
- Renewable energy investments (e.g. district energy, waste heat recovery, biomass).
- Green/blue carbon sequestration.
- Compliance carbon offset projects.
- Voluntary carbon offset projects.
- Not applicable.
- Other.

Community-wide climate policies, programs and actions.

- Complete, compact communities
- Organics diversion
- Circular economy or zero waste strategy
- Renewable energy investments (e.g. district energy, waste heat recovery, biomass)
- Green/blue carbon sequestration
- Not applicable
- Other

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

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

In 2023, the Guildford Town Centre Plan was adopted and the City completed its transition to allow secondary Suites in all CD Zones. The Guildford Plan is a strategy to guide growth in North Surrey over the next 30 to 50 years. The Plan describes how Guildford Centre and the neighbouring Hawthorne and Headwaters Districts will accommodate growth and meet City objectives related to housing and climate change. The Plan includes a strategy that integrates land use, transportation systems, parks, community amenities, and infrastructure. The Guildford Plan was approved by Council on October 30, 2023 and can be accessed on the City's webpage: [surrey.ca/sites/default/files/media/documents/GuildfordPlanFinal.pdf](https://www.surrey.ca/sites/default/files/media/documents/GuildfordPlanFinal.pdf). On November 9, 2020, at Regular Council – Public Hearing, Council approved the recommendations in Corporate Report No. R162; 2020, to endorse a process to permit one secondary suite in Comprehensive Development (“CD”) Zones that permit a single-family dwelling and that meet criteria. The process was a rezoning process that replaced eligible CD Zones with a new CD bylaw that permitted a secondary suite. Bylaw introductions were made in batches, by memo to the City Clerk from the Planning & Development Department and were introduced at Regular Council – Land Use Meetings (first and second readings). Notices were sent to affected property owners and tenants within the proposed CD Zone amendment areas and a notice was published in local newspapers. In 2023, to streamline the process, the above process changed. Instead of introducing new bylaws for each CD Zone to allow a secondary suite, the remaining 107 eligible CD Zones were amended at one time. This was done by amending Part 52 Comprehensive Development Zone of the Zoning Bylaw to include a section on Secondary Suite Use in eligible CD Zones, and the creation of a new Schedule K, which will list the CD Zones that will now permit a secondary suite. More information can be found on the City's webpage: <https://www.surrey.ca/city-government/bylaws/secondary-suites/secondary-suites-comprehensive-development-zones>.

Provincial Policy Alignment - Resilience and Adaptation

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

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

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

- Corporate
- Community

- Not applicable

Corporate resilience and adaptation policies, programs and actions.

- Undertaking or completing a risk assessment at the asset or project level.
- Undertaking or completing a Hazard Risk Vulnerability Analysis (HRVA) at the asset or project level.
 - Addressing current and future climate risks through plans, adaptation measure implementation, programs, service delivery, asset management and/or other functions.
 - Collaboration with other communities on resilience planning/initiatives.
 - Monitoring climate risks or impacts (floods, wildfire, etc.).
 - Providing training (adaptation and mitigation skills).
 - Creation of policy/procedures to affect change (climate considerations into decision-making processes).
 - Creating data systems to support climate action.
 - Utilizing natural assets/nature-based solutions.
 - Developing emergency/hazard response plans.
 - Not applicable.
 - Other.

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

- Undertaking or completing a risk assessment at the community level.
- Undertaking or completing a Hazard Risk Vulnerability Analysis (HRVA) at the community level.
 - 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.
 - Hydroclimatological data collection.
 - Monitoring climate risks or impacts (floods, wildfire, etc.).
 - Public engagement on climate risks and actions.
 - Providing training (adaptation and mitigation skills).
 - Creation of policy/procedures to affect change (climate considerations into decision-making processes).
 - Creating data systems to support climate action.
 - Utilizing natural assets/nature-based solutions.
 - Developing emergency/hazard response plans.
 - Not applicable.
 - Other.

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

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

The City of Surrey is actively working to complete various projects funded by the Disaster Mitigation and Adaptation Fund (DMAF). This fund is intended to support infrastructure projects designed to mitigate the impacts of climate change. The City of Surrey also received Provincial funding to upgrade its riverine dykes along the Nicomekl and Serpentine Rivers to the required flood protection standards; further safeguarding communities and critical infrastructure from the impacts of flooding, worsened by the oncoming pressures from climate change. In 2023, Surrey continued working with agencies and the required First Nation's groups to deliver the 13 DMAF funded projects. The City started the construction of the Living Dyke Pilot site in Mud Bay in early 2023, an innovative project designed to adapt to sea level rise and protect critical transportation infrastructure by means of enhancing natural coastal ecosystems. The 152 Street upgrade project was also started in 2023. The project will involve raising and widening 152 Street as it crosses the floodplain and enhancing King George Blvd from Highway 99 to the Serpentine River to provide secondary flood protection for 152 Street. Additionally the Nicomekl River Bridge will be twinned, creating a four-lane road and bridge crossing with pathways for cyclists and pedestrians. These improvements will enhance flood resilience, improve emergency response, and help reduce congestion. The City has completed several of the other approved DMAF projects and various others are in the planning stage. Please find the summary of the projects in the link below: <https://www.surrey.ca/services-payments/water-drainage-sewer/flood-control-and-prevention/coastal-flood-adaptation-projects>.

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

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

Yes at the community level

Original:

<https://www.surrey.ca/sites/default/files/media/documents/ClimateAdaptationStrategy.pdf>.

Update integrated into: <https://www.surrey.ca/about-surrey/sustainability-energy-services/climate-change-action-strategy>

Yes at the asset or project level

No

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

Yes, in asset management

Yes, in budgeting

- Yes, in climate action plans
- No

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

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

- Extreme heat and heat stress

short

- Extreme cold, snow and ice
- Water shortages
- Wildfire
- Wildfire smoke

short

- Overland flooding

short

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

short

- 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
- Power outages
- 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 community, with respect to the hazards and impacts identified in Question 15? Please select one or more of what you consider the most valuable types of information for planning.

- Local knowledge
- Localized climate modelling and projected scenarios
- Assessment of potential community impacts
- Assessment of community vulnerabilities
- Risk assessment of hazards
- Mapping of climate change impacts and hazards
- Demographic information
- Projected development
- Adaptation planning information
- Technical expertise to implement solutions
- Community/stakeholder engagement and support

- Information on partnership opportunities
- Examples of actions taken by other communities
- Not sure
- Other

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

- Low-income households
- Indigenous Peoples
- Racialized communities
- Newcomers to Canada (immigrants and refugees)
- People experiencing homelessness
- Seniors
- 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
- People living alone/isolated
- Not sure
- Other

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

Hazard	Adaptation measure
Extreme heat and heat stress	Public education, emergency alerts and support for residents during extreme cold, heat and smoke
Extreme cold, snow and ice	
Water shortages	
Wildfire	
Wildfire smoke	Upgrades to HVAC systems at City facilities to ensure clean air
Overland flooding	Riverine dyke raising to protect important agricultural land and transportation infrastructure
Coastal flooding, storm surge events and/or other coastal hazards	DMAF projects as part of the City's Coastal Flood Adaptation Strategy implementation
Wind, rain, and other storm events	
Ecological impacts	
Human health impacts	

Cultural impacts	
Power outages	
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 local government or 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 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 2023 calendar year that promotes equity and inclusion.

The Climate Change Action Strategy includes Equity as a guiding principle and highlights climate actions with equity co-benefits.

LGCAP Year 2 Funding

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

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

Question 20: What did/will your local government or Nation spend its LGCAP funding on for year two of the Program (2023)? Please select all that apply and indicate the total dollar value associated with each initiative. For LGCAP 2023 funding, City of Surrey received 1175082. Please ensure the amount(s) entered for Question 20 equal this amount in total.

- Corporate
- Community
- Funds on hold

147,072

Corporate Initiatives

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

- Staffing

257,400

- Energy study

200,000

- Climate study
- Traditional services emissions reporting
- Asset management
- Climate finance planning
- Leveraging funds from other sources/ grant stacking
- Buildings initiatives
- Transportation initiatives
- Community-wide initiatives
- Resilience and adaptation initiatives
- Other

Corporate buildings policies, programs and actions.

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.

- Highest efficiency standards for new space and water heating equipment.
- BC Energy Step Code adoption (Step 3 or higher).
- Zero Carbon Step Code adoption.
- Efficiency upgrades/retrofits.

57,480

- Requirement to use mass timber in buildings construction.
- Requirement to measure embodied carbon.
- Other.

Corporate transportation policies, programs and actions.

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.

- Programs to increase high-occupancy (2 or more people) vehicle trips (i.e. carpooling).
- Established personal (passenger) transportation target goals, and measures to reach them, in annual reports – may include target goals for vehicle kilometre reduction, mode share for active transportation and zero-emission vehicles.
- Established commercial transportation target goals, and measures to reach them, in annual reports – may include target goals for vehicle kilometre reduction, mode share for energy efficient commercial transportation and zero-emission vehicles.
- 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.
- Active transportation infrastructure investments.
- Active transportation education and encouragement programs.
- Expanded micromobility access, bylaws and/or infrastructure (e.g. introduced or expanded bike/e-bike/e-scooter sharing programs, built new bike/scooter lanes, updated bylaws for use of bikes/scooters).
- Installation of secure bike parking (i.e. bike valet).
- Electric vehicle charging studies/planning.
- Electric vehicle charging infrastructure investments.

309,000

- Required new and/or existing gasoline and card lock fuel stations to include zero-emission vehicle infrastructure development.
- Other.

Corporate resilience and adaptation policies, programs and actions.

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.

- Undertaking or completing a risk assessment at the asset or project level.
- Undertaking or completing a Hazard Risk Vulnerability Analysis (HRVA) at the asset or project level.
- Addressing current and future climate risks through plans, adaptation measure implementation, programs, service delivery, asset management and/or other functions.
- Collaboration with other communities on resilience planning/initiatives.
- Monitoring climate risks or impacts (floods, wildfire, etc.).
- Providing training (adaptation and mitigation skills).
- Creation of policy/procedures to affect change (climate considerations into decision-making processes).
- Creating data systems to support climate action.
- Utilizing natural assets/nature-based solutions.

204,130

- Developing emergency/hazard response plans.

Other.

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

1. Climate resilient test plots and median irrigation stub outs for Surrey-Langley skytrain corridor. 2. Green Buildings Lead position within Building Division to support the development and implementation of energy efficient, low carbon and resilient building programs for new and existing buildings. 3. Facilities Energy Manager position within Facilities Division to implement energy conservation measures at City facilities and support the development and implementation of a Facilities Transition Plan. 4. Development of a Facilities Transition Plan to identify retrofit opportunities at City facilities to achieve emissions reduction targets. 5. Replacement of rooftop air handling units serving a public library with electric heat pumps. 6. Upgrade and expansion of electric vehicle charging infrastructure at City Hall to increase access for City fleet and staff vehicles.

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

Format: no dollar sign and up to two decimal places

64000

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

Please enter "NA" if no funds were leveraged.

BC Hydro - Commercial Energy Manager Program, Province of BC – CleanBC Custom-Lite Program

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

Decision-making for the allocation of LGCAP funds is guided by the following evaluation criteria: 1) GHG reduction impact: operational and embodied emissions reduction, mode shift to walk/bike/transit, carbon sequestration, 2) Climate resilience: mitigation of climate risks and impacts, 3) Resource efficiency: impact achieved for money spent, 4) Timeliness: project readiness, opportunity cost of delay, 5) Market transformation potential: potential to catalyze adoption of high impact technology or practice, 6) Equity & Indigenous relations: partnership of First Nations, prioritization and/or involvement of equity-seeking groups

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

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

- Yes
- No

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

Optional

LGCAP funding is an important source of dedicated funding that allows the City to take action on climate change by funding key climate action projects, leveraging other climate related grants and enabling opportunities for new staff resources. The City's Climate Change Action Strategy (CCAS), adopted in 2023, takes an integrated approach to climate mitigation, adaptation and resilience, to achieve the City's emissions reduction targets and improve the community's resilience to climate change impacts. LGCAP funding has helped to advance key projects, aligned with the CCAS framework, with expected outcomes including emissions reduction from City fleet and facilities, and improved resilience of natural assets. Without LGCAP funding, some of these projects would not have been able to proceed. Future years of LGCAP funding will be critical to advancing the climate action initiatives identified in the CCAS and make progress towards becoming net-zero and climate-resilient, goals shared with the Province.

Please note on posting the survey publicly:

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

Local Government Climate Action Program Attestation Form

Instructions for the Attestor (CFO or equivalent staff person):

Complete and sign this form by filling in the fields below.

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

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

Attested by (first name, last name)

Kam Grewal

Professional title

CFO/GM Finance

Local government or Modern Treaty Nation

City of Surrey

Date

2024-07-30

Attestor signature

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

Signature captured

2024-07-30 13:45:00 Pacific Daylight Time