Local Government Climate Action Program (LGCAP) Year 4

Kelowna Survey Responses for 2025

July 2025

1435 Water Street
Kelowna, BC V1Y 1J4
TEL 250-469-8610
FAX 250-862-3349
email@kelowna.ca

kelowna.ca

Contents

Introduction 3

Part A: Climate Action Planning 4

Part B: Traditional Services Greenhouse Gas Emissions 6

Part C: Community-Wide Greenhouse Gas Emissions 8

Part D: Provincial Policy Alignment - Mitigation 11

Part E: Provincial Policy Alignment - Resilience and Adaptation 18

Part F: Equity 26

Part G: LGCAP Year 2 Funding 27

Part H: Local Government Climate Action Program Attestation Form 31

Introduction

The Local Government Climate Action Program – Year 4

The provincial Local Government Climate Action Program (LGCAP) provides local governments and Modern Treaty Nations with predictable and stable funding between 2022-2026 to support the implementation of local climate action that reduces emissions and prepares communities for the impacts of a changing climate.

The LGCAP supports local climate action to help BC reach the Province's legislated climate targets and achieve provincial climate goals outlined in the CleanBC Roadmap to 2030 and the Climate Preparedness and Adaptation Strategy.

The City of Kelowna is eligible for between $409,313 and $419,082 annually between 2022 and 2026, provided the following eligibility requirements are met each year:

- Be a signatory of the BC Climate Action Charter;
- Measure and report on traditional service GHG emissions;
- Report on projects linked to one or more objectives from the province's CleanBC Roadmap to 2030 and/or Climate Preparedness and Adaptation Strategy;
- By the July 31, 2025 deadline, submit the completed program survey and signed attestation form to confirm that the LGCAP funds will be used towards climate action by the appropriate deadlines; and
- By the September 30, 2025 deadline, publicly post the survey and attestation form.

Part A: Climate Action Planning

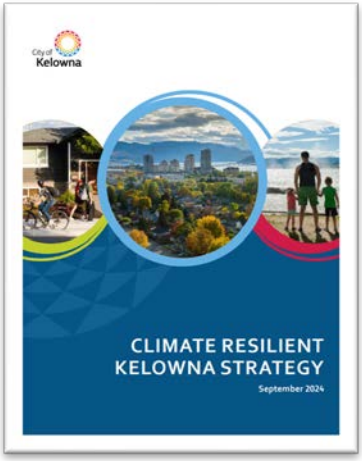
Climate Action Plans are strategic roadmaps that identify how an organization will reduce their greenhouse gas (GHG) emissions (mitigation), increase their resilience to the impacts of climate change (adaptation), or a combination of both.

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, impact reduction and early warning systems.

Question 1: 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.

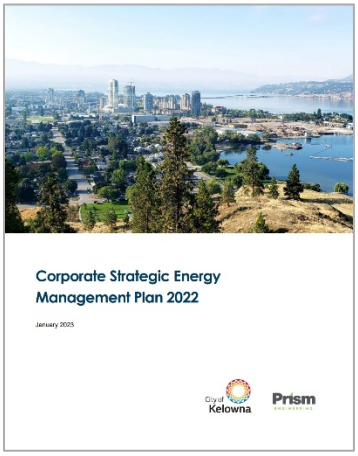
18.25

Question 2: Does your local government or Nation have a community-wide climate action plan or other guiding document(s)?
Yes, an integrated climate plan (i.e., addressing mitigation and adaptation) was adopted in September 2024.



Climate Resilient Kelowna Strategy (2024).

Question 3: Does your local government or Nation have a corporate climate action plan or other guiding document(s)?
Yes, an integrated climate action plan (i.e., addressing mitigation and energy) was completed in 2022 and adopted in January 2023.



Corporate Strategic Energy Management Plan (2022)

Question 4: Please select up to three challenges impeding the advancement of climate action in your community.

- ✓ Lack of staff capacity or expertise
- ✓ Lack of financial resources
- Lack of data or information
- Lack of provincial or federal government support or collaboration
- ✓ Competing priorities
- Other

Part B: Traditional Services Greenhouse Gas Emissions

Measuring and reporting traditional services emissions (defined in previous years as corporate emissions) is a Program requirement for all communities with a 2020 population of 10,000 residents and above.

This requirement can be fulfilled using an established reporting framework of your choosing (CDP, GHG Protocol for Cities, etc.), including the LGCAP scope and boundaries described in the LGCAP Traditional Services Emissions Scope and Boundaries document. Contracted emissions must be accounted for regardless of which protocol your local government employs. Local governments with populations below 10,000 and Modern Treaty Nations are not required to report traditional services greenhouse gas emissions but are encouraged and supported to do so on a voluntary basis.

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.

Question 5: For the 2024 calendar year, has your local government or Nation measured and reported associated traditional services GHG emissions?
Yes

If your local government or Nation measured 2024 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.
6,878

- **OPTIONAL: Please indicate how many tonnes of CO_2e are associated with facilities.**
    - 4,266
- **OPTIONAL: Please indicate how many tonnes of CO_2e are associated with mobile sources.**
    - 2,612

If your local government or Nation measured 2024 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.
6,119

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.

12,997

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

LGCAP methodology (2024 B.C. Best Practices Methodology for Quantifying Greenhouse Gas Emissions and the LGCAP Traditional Services Boundaries and Scope Guidance)

Part C: 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 unprocessed data can be requested by local governments that wish to measure and report their community-wide emissions for the buildings, on-road transportation and municipal 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 at the local level will help CAS upgrade the CEEI.

Question 6: For the 2024 calendar year, have community-wide GHG emissions been measured for your local government or Nation?
No, community GHG emissions were not reported because the 2024 Provincial CEEI data has not been released.

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

When was the last year your community or Nation reported its community-wide emissions and what is the interval for reporting (ex. 2022, every 5 years)?
2022, annually.

Please report your community-wide transportation sector emissions in tonnes of CO2e for the most recent year available.
412,650

Please report your community-wide buildings sector emissions in tonnes of CO2e for the most recent year available.
319,625

Please report your community-wide solid waste sector emissions in tonnes of CO2e for the most recent year available.
67,199

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	40	2007
2040	-	-
2050	Net-zero (100%)	2007

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:

- Vehicle kilometres travelled (ICBC data) at the forward sortation area (FSA) or neighbourhood level and/or vehicle ownership at the FSA or neighbourhood level
- Building energy (natural gas, electricity) use at the FSA or neighbourhood level
- Tree canopy coverage

Part D: 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.

For questions 10-13, please note the following regarding "**Ongoing**" initiatives. "Ongoing" includes initiatives that are either:

- Implemented in previous years and still active (e.g., an organics diversion project started in 2022 that continues to divert waste).
- Currently available or in effect in 2024 (e.g., supplementing Provincial energy efficiency incentive programs).

Question 10: Please indicate all climate initiatives your local government or Nation had in-progress, ongoing or completed in the 2024 calendar year related to the buildings sector. This should not be limited to what your LGCAP funding supported.

Corporate buildings policies, programs and actions.

- Highest efficiency standards for new space and water heating equipment.
- BC Energy Step Code adoption (Step 4 or higher).
- Zero Carbon Step Code adoption.
- ✓ Efficiency upgrades/retrofits.
- Requirement to use mass timber in buildings construction.
- Requirement to measure embodied carbon.
- ✓ Other.
    - Policy in a new Strategic Facilities Master Plan for all new corporate buildings to meet LEED Gold and CAGBC Zero Carbon Building standards.
    - Facility Energy Modernization Renewal Program: This program targets low-cost
    - energy efficiency measures across our building portfolio which typically do not get captured in the capital process.
    - Building Automation Renewal Program (enhance efficiency and reliability of the HVAC systems in corporate buildings).
    - Facility efficiency studies.

Community-wide buildings policies, programs and actions.

- ✓ Topping up Provincial energy efficiency incentive programs.
- Bylaw changes to facilitate heat pump installations or electrical upgrades.
- BC Energy Step Code adoption (Step 4 or higher).
- Zero Carbon Step Code adoption.

- Requirement to use mass timber in buildings construction.
- Requirement to measure embodied carbon.
- ✓ Other.
    - Home Energy Navigator Program: We launched a free program to engage and support homeowners throughout their retrofit journey. The program continued in 2025.
    - Resilient Roofspace Options Analysis: Conducted a study to understand the technical and policy options available in Kelowna's context. The study will help advise future policy or programs to promote better use of roofspace for climate resilient new buildings.

Please highlight a community project(s) that was in-progress, ongoing or completed in the 2024 calendar year related to buildings.

- Continued to offer an additional $2,000 rebate for heat pumps as part of the Clean BC Municipal Top-Up program and other top-up options, including electrical service upgrades and heat pump water heaters.
- Offered mid-construction blower door test rebates ($325) for new Part 9 building permits.
- Completed collaboration with NRCAN on Canadian Energy End Use (CEE) map project to develop mapping dashboard (GIS) for building energy use and GHG metrics based on current and projected policy scenarios.
- Worked with multiple interest holders on the Tract and Neighbourhood Data Modelling (TaNDM) project to model energy and emissions at the neighbourhood level and develop a neighbourhood level Community Energy and Emissions Inventory for buildings.
- Ongoing collaboration with Carleton University on randomized control trial field study to: administer heat pump survey, test efficacy of information distributions, and recruit participants to a home energy coordinator program.
- Analysis of aggregated Part 9 NRCAN data since Step Code implementation to develop an understanding of current performance and prospects for higher steps of Step Code and Zero-Carbon Step Code.
- Continued implementation of Energy Step Code Step 3 for Part 9 residential buildings and mid-steps for Part 3 buildings.
- Continued the See the Heat program (in partnership with the Okanagan Regional Library) where residents can borrow a thermal imaging camera that connects to a smartphone to learn more about the energy efficiency of their home.
- Home Energy Navigator Program: We launched a free program to engage and support homeowners throughout their retrofit journey. The program continued in 2025.
- Resilient Roofspace Options Analysis: Conducted a study to understand the technical and policy options available in Kelowna's context. The study will help advise future policy or programs to promote better use of roofspace for climate resilient new buildings.

Question 11: Please indicate all climate initiatives your local government or Nation had in-progress, ongoing or completed in the 2024 calendar year related to the transportation sector. This should not be limited to what your LGCAP funding supported.

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.
- ✓ Electric vehicle purchases and electric equipment/machinery purchases (i.e., electric Zambonis)
- ✓ 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 secure public 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.
- Other.

Please highlight a community project(s) that was in-progress, ongoing or completed in the 2024 calendar year related to transportation.

Transit

- Added 7,123 annual transit service hours across the Kelowna Regional Transit system boosting total annual hours to 217,285. Within Kelowna, this included initiating service improvements outlined in the Rutland Local Area Transit Plan:
    - Implemented Route 98 Rutland/UBCO Express at introductory service levels to provide a more direct service between UBC Okanagan, Rutland, and Downtown—enhancing connectivity and reducing travel times
    - In response to strong demand, introduced a dedicated local transit service on Academy Way - 84 Academy Way, connecting this dense residential area to UBCO
    - Increased mid-day and weekend service on frequent transit network Routes (1, 5, 8, 10, and 11).
- Constructed four new bus stops, upgraded eight existing stops, and added three new shelters to improve accessibility, comfort, and convenience for riders. 187 out of Kelowna's 622 bus stops are outfitted with shelters (excludes stops, shelters in partner community areas served by the regional transit system).

- Completed designs of enhancements to the Hardy Transit Centre which includes charging infrastructure to support a minimum of 16 battery electric buses proposed to begin serving the region in 2027.
- Advanced project development for the proposed future new Hollywood Transit Centre.
- Supported the BC Transit launch of the UMO electronic fare system, an efficient system that modernizes the way we sell and collect fares, improving ease and convenience for riders.
- Through partnership with the United Way, we expanded the Emergency Transit Assistance Program (ETAP) that distributes no-cost fare products reaching those most in need while ensuring that our transit system is accessible to all members of our community.
- Completed detailed design for two transit exchange expansions - Rutland and Okanagan College exchanges, and preliminary design for Mission Exchange renewal and expansion. These projects will facilitate future service expansions and included feasibility assessment for on-route battery electric bus charging infrastructure.

Active Transportation

- Completed a few key links in our all-ages and abilities (AAA) active transportation network:
    - Extended the Sutherland Active Transportation Corridor (ATC) from Ethel Street to Parkinson Recreation Centre.
    - Constructed the Leckie ATC, which now connects the Okanagan Rail Trail to the Mission Creek Greenway.
    - The Bertram Multi-Use Overpass across Highway 97 was constructed in 2024 and opened in the spring 2025. This is the first stage of the Bertram ATC connecting Downtown and to the future UBCO downtown campus.
- Other ATC projects completed included Glenmore Road Multi-Use Pathway (MUP) between Dallas Road and Kane Road/Ballou Road.
- Completed 10 new crosswalk improvements, seven of which included crosswalk flashers and installing approximately 500m of new sidewalk.
- Delivered GoByBike Week, which saw participation increase by roughly 25 per cent. Over 4,000 participants and 32 schools took part in 2024's event across Kelowna and the surrounding area.
- Continued to deliver the City's Micromobility Program for shared e-bikes and e-scooters.
- Continued developing the Employer Commute Trip Reduction Program to help reduce the number of people driving along during peak travel times, saving time, money and GHG emissions.

Efficient, low-emission vehicles

- To support the shift to electric vehicles, we updated the Zoning Bylaw to require most parking stalls in new residential buildings (e.g., single-family dwellings, duplexes, fourplexes, townhomes, multi-unit residential buildings) to include an energized electrical outlet capable of minimum Level 2 charging.
- Continued implementation of the anti-idling bylaw.
- Continued expansion of the public EV charging network, with new level 2 chargers at four different locations across the community.
- Successfully applied to the Zero Emission Vehicle Infrastructure Program (ZEVIP) to receive partial funding for up to 37 Level 2 public EV chargers to be installed in the next few years.

- Offered additional rebates for MURB EV charging (individual charger rebate and EV ready infrastructure rebate) as part of the Clean BC Municipal Top Up program.
- Continued the Central Okanagan Regional Goods Movement Study in partnership with the BC Ministry of Transportation and Infrastructure, which identifies strategies to ensure the sustainable and efficient movement of goods as our region grows, including decarbonization of commercial goods movement in alignment with the CleanBC Roadmap to 2030.

Question 12: Please indicate all climate initiatives your local government or Nation had in-progress, ongoing or completed in the 2024 calendar year related to community-wide and corporate action. This should not be limited to what your LGCAP funding supported.

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, solar studies).
- Supporting green/blue carbon sequestration.
- Developing compliance carbon offset projects.
- Developing voluntary carbon offset projects.
- Other.

Community-wide climate policies, programs and actions.

- ✓ Complete, compact communities.
  - ✓ Rezoning
  - Smaller lots
  - ✓ Density bonuses
  - ✓ Infill development
  - ✓ Urban containment boundaries
  - Regional Growth Strategies
  - ✓ Community Development Plans
- ✓ Organics diversion
- Circular economy or zero waste strategy
- ✓ Renewable energy investments (e.g. district energy, waste heat recovery, biomass)
- Supporting green/blue carbon sequestration
- ✓ Climate engagement
- Other

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.

- Continued implementing the 2040 Official Community Plan
- Continued development of the North End Plan

- Continued a project to create a new Fast Track approval process to help make it easier and faster to develop infill housing. The Fast Track builds upon the success of the City's new infill pre-zoning, and includes two key components:
    - An initial set of 4-6 pre-reviewed infill designs (aka: pre-approved, standardized), and (2) An accelerated (Fast Track) approval process that reduces approval timelines by 80 per cent.
    - Completed a 'Climate Lens for Development Applications' study to determine the best ways to better incorporate climate criteria to the development application review process.
- Collaborated with UBC Okanagan researchers on a Solar Feasibility Study to better understand local options to advance solar PV technology in the Okanagan region.
- Continued to work on the Thriving Urban Centres project to support the development of Kelowna's 5 Urban Centres to ensure high quality of life for residents, visitors and workers.

Part E: 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 13a): Please indicate all initiatives your local government or Nation had completed, ongoing or in-progress in the 2024 calendar year to adapt to and build resilience to climate impacts. This should not be limited to what your LGCAP funding supported.

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.
- ✓ Developing business continuity or similar plan(s).
- 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.
- ✓ Developing, acquiring, or already have hazard or climate risk mapping (e.g., floodplains) data or similar information.
- ✓ Utilizing natural assets/nature-based solutions.
- ✓ Developing emergency/hazard response plans.
- Other.

Please highlight one or more climate adaptation project(s) that were completed, ongoing or in-progress in the 2024 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.

- Completed the Climate Resilient Kelowna Strategy, which takes a low-emission resilience approach to community climate action. The strategy was endorsed by Council in September 2024.
- Continued improvements to the Emergency Operations Centre based on changing climate conditions.

Wildfires/Smoke

- Expanded the FireSmart Community Chipping Program that offers free curbside removal and chipping of highly flammable plant and shrub materials to reduce wildfire fuel levels on private properties. Targeted certain higher risk neighbourhoods to amplify the impact.
- Continued implementing the Community Wildfire Resilience Plan, which was endorsed in August 2022.
- Collaborated with SFU researchers on delivering a series of 'Build Your Own FREE Air Purifier' Workshops where Kelowna residents could sign up to learn more about measures to protect themselves during wildfire/smoke events. Participants would build their own air purifier and would get to take it home, free of charge. Workshops were targeting vulnerable populations such as seniors, low-income, and pregnant women.
- Partnered with Interior Health and the Okanagan Regional Library to offer indoor quality monitors for loan as part of the library's "Library of Things". The motivation for the program is to provide a low/no-cost way for residents to measure indoor air quality, particularly during wildfire smoke events.
- Added resources to the FireSmart program by hiring a dedicated Captain of Fire Mitigation.
- Continued the FireSmart neighbourhoods program which offers education and removal of combustible landscaping (focusing on neighbourhoods and large stratas). The City now has seven FireSmart neighbourhoods (up from 2 previously).

- Partnered with Okanagan xeriscape to run an educational event on FireSmart for business professionals.
- Completed ecological restoration and fuel mitigation work: McKinley Mountain Park (14 hectares), Knox Mountain (30 hectares), Dilworth Mountain (24 hectares)
- Built capacity for a prescribed fire program, with work completed in 2025.
- Continued FireSmart upgrades for critical infrastructure.
- Managed a significant increase in housing demolition material from buildings destroyed in the 2023 Grouse Complex Fires.

Flooding

- Continued work on the Mill Creek Flood Protection Project (City is in the sixth year of a ten year project to improve flood passage and public safety on Mill Creek). Subprojects included:
    - Removed three bridge spans and old culverts where debris would accumulate.
    - Completed flood resiliency work at Burne Avenue Park.
    - Initiated Mill Creek design work for the new Parkinson Recreation Centre.
- Completed 4 riffles (salmon habitat enhancements) in Mission Creek which also support naturalized stream hydrology, supporting the overall Mission Creek restoration goal to reduce channelization-driven sediment accumulation that exacerbates flood risks.
- Initiated flood protection and flood hydraulics deposition for a much larger flood event at the KLO Bridge
- Completed ongoing renewal work to revised climate standards (e.g., increased hydrometric measurements)
- Created a dam safety maintenance program
- Completed the Central Stormwater Basin Plan (the second of eight plans) and initiated the third (Brandt's Creek Basin).

Drought/Water Shortages

- Administer and promote Qualified Water Efficient Landscaper (QWEL) certification for contractors.
- Offered rebates for planting climate appropriate landscapes for the public through the WaterSmart program.
- Developed plans for water supply resilience/redundancy with the Glenmore Ellison Improvement District.
- Completed the City of Kelowna Water Security Plan, a holistic view of future water needs and community resiliency in the face of a changing climate and social pressures.
- Successfully managed through Level 3 Drought in the Summer of 2024.

Heat

- Completed the Sustainable Urban Forest Strategy (SUFS). The strategy was endorsed by Council in August 2024.
- Implemented the Extreme Heat / Extreme Cold Weather Response Plans.
- DeHart Park: with a major focus on tree retention, this new park benefits from significant existing shade.

- Burne Ave Park: land acquisition that resulted in an increase to the riparian vegetation area around Mill Creek, which will help shade fish habitat, along with the creation of a new community park with shade trees.
- Tree Equity Mapping: component of the SUFS, detailed mapping of risk factors and urban heat impacts to vulnerable populations which will direct future tree planting and tree support initiatives.
- Updated OCP Tree Canopy Targets
- Increased the municipal tree planting program. In 2024, 471 trees were planted on Municipal land (parks, ROW, civic properties) and 828 Neighbourwoods trees were sold.
- Leckie, Casorso, and Houghton Active Transportation Corridors were constructed/expanded to enhance bike/pedestrian connectivity while also planted with drought tolerant vegetation and shade trees to cool the bikeways and sidewalks.
- Community Engagement through the Block Connector Block Party:
    - Provided education to Block Connectors and Neighbourhood Association members on the health risks associated with extreme heat.
    - Organized interactive activities to raise awareness about the signs and symptoms of heat stress and heat stroke. Promoted the importance of neighbour-to-neighbour support, particularly for older adults, during heat events.
- Collaborative and Advocacy Efforts:
    - Advocated for and partnered with Risk Management to implement public misting stations and coordinate free transportation to cooling centres in collaboration with BC Transit.
    - Identified and communicated community needs to inform timely responses, including water distribution and support for service providers assisting individuals experiencing homelessness.

Question 13 b): How many full-time equivalent (FTE) staff are dedicated to developing the plans and assessments listed below? This includes plans and assessments done collaboratively with other local or Indigenous government partners.
Please estimate e.g., 100% time = 1.0; 50% time = 0.5; 25% time = 0.25.

- Emergency management plans that address preparedness, response and/or recovery; also includes hazard specific response plans such as an extreme heat response plan: 1.5
- Business continuity plans: 1.25
- Hazard and climate risk assessments (e.g., Hazard, Risk and Vulnerability Assessment (HRVA), floodplain mapping, sea level rise risk assessment): 1
- Hazard and climate risk reduction / adaptation plans (e.g., flood risk management plan, community wildfire protection plan, water supply management plans: 1

Question 13 c): What is the annual budget allocated for the plans and assessments listed below? This includes plans and assessments done collaboratively with other local or Indigenous government partners.

- Emergency management plans that address preparedness, response and/or recovery; also includes hazard specific response plans such as an extreme heat response plan): $15,000

- Business continuity plans: $10,000
- Hazard and climate risk assessments (e.g., Hazard, Risk and Vulnerability Assessment (HRVA), flood plain mapping, sea level rise risk assessment): $10,000
- Hazard and climate risk mitigation/adaptation plans (e.g., flood risk management plan, community wildfire protection plan, water supply management plans): $10,000

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 (Council Report and Executive Summary): https://kelownapublishing.escribemeetings.com/Meeting.aspx?Id=de070d94-f005-463e-a1aa-d2d737864d28&Agenda=Agenda&lang=English&Item=38&Tab=attachments.
- 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: Please select the most significant climate hazards and impacts faced by your jurisdiction and please specify the associated adaptation measures completed or in-progress in the 2024 calendar year, if any.

Hazard	Adaptation measure
Extreme heat and heat stress	• Completed the Sustainable Urban Forest Strategy. • Implemented the Extreme Heat Response Plans. • DeHart Park: with a major focus on tree retention, this new park benefits from significant existing shade. • Burne Ave Park: land acquisition that resulted in an increase to the riparian vegetation area around Mill Creek, which will help shade fish habitat, along with the creation of a new community park with shade trees. • Tree Equity Mapping: detailed mapping of risk factors and urban heat impacts to vulnerable populations which will direct future tree planting and tree support initiatives. • Updated OCP Tree Canopy Targets. • Increased the municipal tree planting program. In 2024, 471 trees were planted on Municipal land (parks, ROW, civic properties) and 828 "Neighbourwoods" trees were sold.

Extreme cold, snow and ice	• Supported the agricultural community through extreme cold in January 2024. • Implemented the Extreme Cold Response Plan during January 2024 extreme cold (e.g., support for the homeless population).
Water shortages	• Administered and promoted Qualified Water Efficient Landscaper (QWEL) certification for contractors. • Offered rebates for planting climate appropriate landscapes for the public through the WaterSmart program. • Developed plans for water supply resilience/redundancy with the Glenmore Ellison Improvement District. • Completed the City of Kelowna Water Security Plan, a holistic view of future water needs and community resiliency in the face of a changing climate and social pressures. • Successfully managed through Level 3 Drought in the Summer of 2024.
Wildfire	• Expanded the FireSmart Community Chipping Program that offers free curbside removal and chipping of highly flammable plant and shrub materials to reduce wildfire fuel levels on private properties. • Continued implementing the Community Wildfire Resilience Plan. • Added resources to the FireSmart program by hiring a dedicated Captain of Fire Mitigation. • Continued the FireSmart neighbourhoods program which offers education and removal of combustible landscaping (focusing on neighbourhoods and large stratas). The City now has seven FireSmart neighbourhoods (up from 2 previously). • Ran an educational event on FireSmart for businesses with OXA. • Completed ecological restoration and fuel mitigation work: McKinley Mountain Park (14 ha), Knox Mountain (30 ha), Dilworth Mountain (24 ha). • Built capacity for a prescribed fire program, with work completed in 2025. • Continued FireSmart upgrades for critical infrastructure.
Wildfire smoke	• Collaborated with SFU researchers on delivering a series of 'Build Your Own FREE Air Purifier' Workshops where Kelowna residents could sign up to learn more about measures to protect themselves during wildfire/smoke events. Participants would build their own air purifier and would get to take it home, free of charge. Workshops were targeting vulnerable populations such as seniors, low-income, and pregnant women. • Partnered with Interior Health and the Okanagan Regional Library to offer indoor quality monitors for loan as part of the library's "Library of Things". The motivation for the program is to provide a low/no-cost way for residents to measure indoor air quality, particularly during wildfire smoke events.
Overland flooding	• Continued work on the Mill Creek Flood Protection Project. Subprojects included:

	○ Removed three bridge spans and old culverts where debris would accumulate ○ Completed flood resiliency work at Burne Avenue Park; Initiated Mill Creek design work for the new Parkinson Recreation Centre. ○ Completed 4 riffles (salmon habitat enhancements) in Mission Creek. ○ Initiated flood protection and flood hydraulics deposition for a much larger flood event at the KLO Bridge. • Completed ongoing renewal work to revised climate standards (e.g., increased hydrometric measurements). • Created a dam safety maintenance program. • Completed the Central Stormwater Basin Plan (the second of eight plans), and initiated the third (Brandt's Creek Basin).
Coastal flooding, storm surge events and/or other coastal hazards	N/A
Wind, rain, and other storm events	(overlap with flooding)
Ecological impacts	• Monitoring Okanagan Lake water quality after 2023 Grouse Complex Wildfires. • Completed the Sustainable Urban Forest Strategy.
Human health impacts	• See wildfire smoke section • Continued work on extreme heat response planning (e.g., implementation of the two-tiered Heat Alert & Response System for heat warnings and extreme heat emergencies).
Cultural impacts	-
Power outages	• As part of the Climate Resilient Kelowna Strategy, engaged with FortisBC Electricity on grid redundancy.
Other	• Water quality degradation; invasive species

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/partner engagement and support
- Information on partnership opportunities
- ✓ Examples of actions taken by other communities
- Not sure
- ✓ Other
    - Indigenous knowledge: culturally significant sites, historical ecological ranges/ecosystem patterns.

Optional: What resilience indicators are of most value to your local government or Nation?
In developing the Climate Resilient Kelowna Strategy, we found that identifying adaptation/resilience indicators was challenging. Therefore, the City of Kelowna would welcome best practices for adaptation/resilience indicators.

Tree canopy coverage and localized temperature data would be valuable. Information on damages from local climate hazards could also be valuable (e.g., insurable losses).

Question 17: Please indicate all initiatives your local government or Nation had in-progress, ongoing or completed in the 2024 calendar year related to collaborating with their neighbouring communities, businesses or community organizations, critical infrastructure providers and/or other partners.

- ✓ Emergency Management and Disaster Climate Risk Management related activities such as preparing, reviewing or revising hazard risk assessments, emergency/hazard response and/or hazard risks plans.
- ✓ Entering into agreements with other jurisdictions related to emergency management, hazard and climate risk reduction, etc. (This request would exclude information on mutual aid type of agreements in relation to (e.g.) fire protection services.)
- ✓ Preparing, reviewing or revising a risk assessment or an emergency management plan.

Question 18: Has your local government or Nation completed a natural asset inventory (an assessment of natural resources like forests, wetlands, and waterways for their ecosystem services and value)?

- ✓ Yes
- No
- Currently in progress

Is your local government or Nation actively managing your natural assets based on this inventory?

- ✓ Yes
- No
- Planning to start soon

Part F: Equity

Certain populations are disproportionately affected/more vulnerable by climate hazards and impacts (e.g. people experiencing homelessness, low-income households, seniors/elders, people living alone).

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.

Collaborated with SFU researchers on delivering a series of 'Build Your Own FREE Air Purifier' Workshops where Kelowna residents could sign up to learn more about measures to protect themselves during wildfire/smoke events. Participants would build their own air purifier and would get to take it home, free of charge. Workshops were targeting vulnerable populations such as seniors, low-income, and pregnant women.

Part G: 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 a): How has your local government or Nation spent or committed its LGCAP funding received in March 2024? This is the 3-years' upfront lump sum totaling: $1,227,939.

- ✓ Corporate (*Options listed below, titled "Corporate initiatives")*
- ✓ Community (*Options listed below, titled "Community initiatives")*
- ✓ Funds on hold ($382,603)

Corporate Initiatives

- ✓ Staffing ($367,000)
- Energy study
- Climate study
- Traditional services emissions reporting
- Asset management
- Climate finance planning
- Leveraging funds from other sources/ grant stacking
- Buildings initiatives
- ✓ Transportation initiatives
    - Electric vehicle purchases and electric equipment/machinery purchases (i.e. electric zambonis) ($100,000)
- ✓ Climate policies, programs and actions
    - Other: climate lens for capital planning study ($17,500)
- ✓ Resilience and adaptation policies, programs and actions
    - Creating data systems to support climate action ($75,000)
    - Utilizing natural assets/nature-based solutions ($30,000)
- Other

Community-wide Initiatives

- ✓ Climate engagement ($90,000)
- ✓ Climate study ($30,000)
- Energy study
- Asset management

- ✓ Buildings initiatives
    - Topping up Provincial energy efficiency incentive programs ($25,836)
    - BC Energy Step Code adoption (Step 4 or higher) ($10,000)
    - Zero Carbon Step Code adoption ($20,000)
- Transportation initiatives
- ✓ Climate policies, programs, and actions
    - Other: support rebates for low-emission/electric landscaping equipment ($10,000)
- ✓ Resilience and adaptation policies, programs and actions
    - Addressing current and future climate risks through plans, adaptation measure implementation, programs, service delivery, asset management and/or other functions ($15,000)
    - Utilizing natural assets/nature-based solutions ($30,000)
- ✓ Other
    - Green Business Climate Action/Sustainability Program ($25,000)

Funds on hold - How will funds be allocated?
No decision has been made.

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

- Climate Action Specialist three-year term position ($357,000).
- Portion of summer student position not funded through BC Lung Foundation Grant ($10,000).
- The 'premium' cost to purchase two electric zamboni's at Prospera Place instead of the propane alternatives - estimated at ~$50K per zamboni ($100,000).
- Climate lens for capital planning study ($17,500).
- Living Master Plan pilot focused on sustainability/climate metrics ($75,000).
- Climate resilient boulevard design for non-irrigated boulevard ($30,000).

Community-wide

- Youth Climate Corps BC: 2025 ClimateSmart Ambassador Program ($70,000).
- Climate Action Ripple Effect (CARE) Program which empowers local youth to work on climate-related projects ($20,000).
- A study to determine consistent procedure across the region for identifying environmentally sensitive natural environment development permit areas ($30,000).
- Green Business Climate Action/Sustainability Program ($25,000).
- Utility municipal top-ups for low-carbon building technologies (25,836).
- Step Code Part 9 Audit Program and Hybrid Heating Deep Dive ($10,000).
- Energy and Zero Carbon Step Code 'higher step' analysis for Part 3 buildings ($20,000).
- Lawn Swap Program 2025: funds to support rebates for low-emission/electric landscaping equipment ($10,000).
- BREATHE 'Build Your Own Air Purifier Workshops' ($15,000)
- Resilient roofspace analysis ($30,000)

Question 20 b): How has your local government or Nation spent or committed its remaining LGCAP funding received in 2022 and 2023? Based on our records, for your community, these funds total: $419,082

Corporate Initiatives

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

Community Initiatives

- Climate engagement
- Climate study
- Energy study
- Asset management
- Buildings initiatives
- Transportation initiatives
- Community-wide initiatives
- Resilience and adaptation initiatives
- Topping up programs/incentives ($419,082)
- Other

To expand upon your selection(s), please highlight the initiative(s) your local government or Nation's LGCAP funding received in 2022 and 2023 has gone towards 2024 will be spent by March 31, 2028.
Funds to support municipal top up rebates for low-carbon building technologies (e.g., heat pumps) offered through the local energy utility.

Question 21 a): How much additional external funding for climate action were you able to invest by leveraging your 2024 LGCAP funds? This could include matching grants as well as private investment.

$68,117

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

- Province of BC funding through Youth Climate Corps BC ($56,287)

- BC Lung Foundation funding through the BREATHE Project (Building Resilience to Emerging Airborne Threats and Heat Events) to hire a summer student to assist with running 'Building Your Own FREE Air Purifier Workshops' ($11,830)

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

Staff who have work that relates to climate action are sent an application form to apply for LGCAP funding on an annual basis. An internal committee reviews the applications and decides which projects/programs/initiatives are most in line with the City's corporate and community climate objectives (and the Province's CleanBC Roadmap to 2030 and Climate Preparedness and Adaptation Strategy). The recommended projects are presented to City Council through the regular budget process.

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 and how does it support other priority initiatives for your local government or Nation (e.g. affordability, health, economic growth/resilience, etc.)? Optional

LGCAP is very valuable to the City of Kelowna. It:

- Provides a predictable, reliable source of funding to invest in climate action – especially since local governments have many competing priorities (e.g., housing crisis, crime and safety) and limited available taxation dollars.
- In this era of inflation, climate funding is even more important as taxation dollars are not going as far, meaning there is even more competition for our limited financial resources.
- Provides a source of "matching funds" should the City of Kelowna apply for other climate action grants.
- Provides the resources and measures needed to assure that strategies and goals are effective, achievable and being implemented.
- Sends an important message that the province stands behind the CleanBC Roadmap to 2030 with funding to help communities implement actions that will help achieve the targets

Part H: Local Government Climate Action Program Attestation Form

That a completed and signed version of this form and survey contents will be publicly posted by September 30, 2025. 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 received in 2022 and 2023 were spent by March 31, 2025 or an LGCAP Spending Forecast Form was submitted by February 28, 2025 and approved.
3. That Local Government Climate Action Program funds 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, 2025

Attested by (first name, last name)
Joe Sass

Professional title
CFO

Local government or Modern Treaty Nation
Kelowna

Date
2025-07-31

Attestor signature Please note: File upload e-signatures are not enabled as 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  *2025-07-31 10:53:00 Pacific Daylight Time*