

Climate Action Revenue Incentive (CARIP) Public Report for 2018

Local Government: City of Kamloops

Report Submitted by:

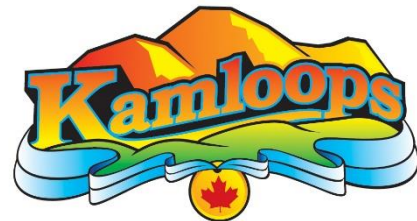
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Canada's Tournament Capital



BC CLIMATE ACTION
COMMUNITY 2017

The City of Kamloops has completed the 2018 Climate Action Revenue Incentive Program (CARIP) Public Report as required by the Province of BC. The CARIP report summarizes actions taken in 2018 and proposed for 2019 to reduce corporate and community-wide energy consumption and greenhouse gas emissions (GHG) and reports on progress towards achieving carbon neutrality.

2018 BROAD PLANNING ACTIONS

Broad Planning Actions

Broad Planning refers to high level planning that sets the stage for GHG emissions reductions, including plans such as Official Community Plans, Integrated Community Sustainability Plans, Climate Action Plans or Community Energy Emissions Plans. Land use planning that focuses on Smart Growth principles (compact, complete, connected, and centred) plays an especially important role in energy and GHG reduction.

Q 6 + Q 7 Community-Wide Broad Planning Actions Taken in 2018 + Additional Actions	
	Adoption of new OCP with section on the City's corporate approach to sustainability, including the GHG reduction targets established in the Sustainable Kamloops Plan; an overarching community vision of a "sustainable, environmentally friendly community that supports active and healthy living and is characterized as resilient, inclusive, and vibrant;" and land use, transportation, housing, infrastructure, environment, climate change reduction, and other policies guided by this vision.
	The update to the City Centre Plan of 2005 is in its third phase. Public engagement for the new Downtown Plan has included open houses, online surveys, a public lecture, a design charrette, kitchen table conversations, and the 4 th Ave Plaza pilot project. Following the growth strategy established in the OCP, the new Downtown Plan will include policies, urban design guidelines, and land use changes to encourage more people to live, work, and recreate downtown and to use sustainable transportation modes, including walking, cycling, and public transit.
	A process to update the City's secondary, garden, and carriage suite policies has undergone community engagement and shared results with Council and the public. Staff have been directed to return to Council with Zoning bylaw amendment recommendations. The new policies will support development of suites in urban areas close to amenities, major employment areas, shopping, and transit to encourage compact, walkable neighbourhoods that reduce reliance on the private vehicle for commuting and other travel.
	An OCP Implementation Strategy was developed in 2018. The strategy includes actions to implement the OCP, several of which will support corporate and community sustainability. The strategy also includes a list of indicators to measure progress towards achieving the OCP's goals, and provides baseline data, targets, and desired trends. Several of the indicators are direct or indirect measures of the City's progress in becoming a more sustainable community.
	The City was awarded a \$125,000 FCM MCIP grant for the development of a Community Climate Action Plan (CCAP), a key environmental priority in Council's 2015-2018 Strategic Plan. The CCAP's objective is to engage the community and stakeholders on implementable targets and actions to reduce community-wide greenhouse gas emissions. The City secured a consultant and kicked off the project in fall 2018; the plan will be completed in Q2 2020.
	As per Agriculture Area Plan (2014) implementation action items, staff completed and delivered a letter to the Minister of Agriculture to encourage the provincial government to revisit stricter requirements for Farm Tax Status to discourage land speculation, low-density residential development, and loss of agricultural production in the Agricultural Land Reserve (ALR) and lands zoned for agriculture outside of the ALR.
Q 8 Community-Wide Broad Planning Actions Proposed for 2019	
	The first progress report on OCP implementation, including a status update on completed actions and how the City is performing on key indicators, will be released in fall of 2019.
	Bylaw readings, public hearing, and adoption of Zoning Bylaw amendments to permit secondary, garden, and carriage suites in more zones within the City to support infill development.

	Completion of a draft Downtown Plan, final round of community engagement, final revisions, and presentation of the plan to Council for adoption.
	A major review and update of the Zoning Bylaw, including changes to help implement the new Downtown Plan and OCP policies and growth strategy, such as permitting increased residential density and a broader mix of commercial uses in core areas and neighbourhood centres. It is scheduled to be presented for final adoption prior to the end of 2019.
	The Community Climate Action Plan will be further developed in 2019, including completing a community energy and emissions inventory, setting targets for community GHG emissions, conducting public and stakeholder engagement, and developing an action plan. The plan is scheduled to be presented to City Council for adoption in Q2 2020.
	Staff will begin the review and update process to the North Shore Neighbourhood Plan of 2008. This plan encompasses the city's two most densely populated neighbourhoods and accounts for nearly 30% of its population. Following the growth strategy established in the OCP, the new North Shore Neighbourhood Plan will include policies, urban design guidelines, and land use changes to encourage more people to live, work, and recreate in its designated mixed-use and neighbourhood centres and to use sustainable transportation modes, including walking, cycling, and public transit.

Q 11 Corporate Broad Planning Actions Proposed for 2019	
	As per Agriculture Area Plan (2014) implementation action items, the City's Finance Department will finalize a corporate procurement policy to encourage more sourcing of local food through RFP processes to better support local producers and suppliers. This should help to reduce food transport distances and associated GHGs.

Broad Planning	
Q 12 What is (are) your current GHG reduction target(s)?	4,600 tCO ₂ e/year by 2020 (excluding contracted emissions) – this is from the Sustainable Kamloops Plan. The OCP has adopted this target in the interim, and City staff will provide progress updates as part of an annual OCP indicators report. The City's GHG reduction targets are being updated with the development of Community Climate Action Plan (aka CEEP), which is currently underway and scheduled to be complete Q2 2020.
Q 13 Are you familiar with your local government's community energy and emissions inventory (e.g. CEEI or another inventory)?	Yes
Q 14 What plans, policies or guidelines govern the implementation of climate mitigation in your community?	<ul style="list-style-type: none"> • Community Energy and Emissions Plan • Integrated Community Sustainability Plan • Community- Wide Climate Action Plan • Official Community Plan • Regional Growth Strategy
Q 15 Does your local government have a corporate GHG reduction plan?	Yes

2018 BUILDING AND LIGHTING ACTIONS

Building and Lighting Actions

Low-carbon buildings use the minimum amount of energy needed to provide comfort and safety for their inhabitants and tap into renewable energy sources for heating, cooling and power. These buildings can save money, especially when calculated over the long term. This category also includes reductions realized from energy efficient street lights and lights in parks or other public spaces.

Q 16 + Q 17 Community-Wide Building and Lighting Actions Taken in 2018 + Additional Actions	
	<p>The City of Kamloops conducted a number of activities in 2018 in the assessment of the BC Energy Step Code. On June 26, 2018 Council directed staff to develop an Energy Step Code implementation strategy, to be completed in July 2019. To this end the following engagement activities were conducted:</p> <ul style="list-style-type: none"> • City of Kamloops staff met with 5 key stakeholder groups regarding the Step Code in Q1 2018 to gauge each organization’s position, intentions and understanding of the ESC • A survey was distributed to Realtors in Kamloops to better understand the role that energy efficiency plays in the real estate market • A survey was distributed to the construction industry in Kamloops to gain an understanding of the level of preparedness, and level of support for the Step Code <p>These activities, along with an internal technical review of the Step Code, will be used in the final development of the implementation strategy.</p>
	<p>In support of increasing awareness of the opportunities available to increase the energy efficiency of resident’s homes, the City of Kamloops, in partnership with FortisBC funded four block parties. At these block parties City and FortisBC staff were there to discuss energy efficiency in the home with event attendees.</p>
	<p>The City of Kamloops included a one page notice in all of the 2018 property tax notices which promoted the benefits of energy efficiency, the benefits of Energy Advisor services, and the Home Energy Coach. A survey on renovation activity was also included, the results of which will guide future Energy Retrofit programming.</p>
	<p>The City of Kamloops has also dedicated some resources to exploring the opportunities available to a municipality in encouraging community-wide energy retrofits and over the course of 2018 completed extensive research. While the reports generated are not public information yet, they have laid the base for strategy and program development in 2019.</p>
Q 18 Community-Wide Building and Lighting Actions Proposed for 2019	
	<p>The City’s Step Code Working Group will complete phase 2 & 3 of the Energy Step Code Implementation Strategy project, which will include further industry engagement and technical review. The Working Group will be present a report to Council in summer 2019 with recommendations on how the City should approach Energy Step Code implementation.</p>
	<p>The City plans to sponsor at least 2 educational workshops to support the building industry and increase local capacity to build high performance, energy efficient homes</p>

Q 19 + Q 20 Corporate Building and Lighting Actions Taken in 2018 + Additional Actions	
	Completed the investigation phase of the continuous optimization program at Tournament Capital Centre and McArthur Island Sport and Event Centre. Assess recommended energy conservation measures and secure funding for implementation.
	Completed four coaching sessions for staff for the continuous optimization program at Sandman Centre.
	Completed a lighting study at Tournament Capital Centre and McArthur Island Sport and Event Centre.
	Completed sport light upgrades at Sandman Centre.
	Completed the Thermal Analysis study of the Canada Games Aquatic Centre.
Q 21 Corporate Building and Lighting Actions Proposed for 2019	
	Initiate a Thermal Analysis Study at Westsyde Pool.
	Review and update the City's Strategic Energy Management Plan (SEMP) based on the outcomes of the Energy Management Assessment Workshop, and as per the requirements of BC Hydro's Commercial Energy Manager program.
	Seek funding to integrate the recommended energy efficiency measures in the 2018 Thermal Analysis study with the Canada Games Aquatic Centre infrastructure improvements scheduled for 2020.

Building and Lighting	
The Province has committed to taking incremental steps to increase energy-efficiency requirements in the BC Building Code to make buildings net-zero energy ready by 2032. The BC Energy Step Code--a part of the BC Building Code--supports that effort	
Q 22 Is your local government aware of the BC Energy Step Code?	Yes
Q 23 Is your local government implementing the BC Energy Step Code?	TBD

2018 ENERGY GENERATION ACTIONS

Energy Generation Actions

A transition to renewable or low-emission energy sources for heating, cooling and power supports large, long-term GHG emissions reductions. Renewable energy including waste heat recovery (e.g. from biogas and biomass), geo-exchange, micro hydroelectric, solar thermal and solar photovoltaic, heat pumps, tidal, wave, and wind energy can be implemented at different scales, e.g. in individual homes, or integrated across neighbourhoods through district energy or co-generation systems.

Q 24 + Q 25 Community-Wide Energy Generation Actions Taken in 2018 + Additional Actions	
	Completed the sanitary sewer micro-hydro feasibility study in the South West sector of the city.
Q 26 Community-Wide Energy Generation Actions Proposed for 2019	
	Developing a Community Climate Action Plan which will assess opportunities for energy generation to reduce community-wide GHG emissions.

Q 27 + Q 28 Corporate Energy Generation Actions Taken in 2018 + Additional Actions	
	Continue to explore the possibility of implementing the sewage micro hydro project
	Completed a Thermal Analysis study of the Canada Games Aquatic Centre. Relevant finding include the opportunity to retrofit the pool air handler unit with mechanical dehumidification and heat recovery with a scheduled retrofit of the facility in 2020, with the potential to reduce GHG emissions by 262 tonnes CO ₂ e/year.
	Continue to operate a 24 kW solar PV system at West Highlands Community Centre, and a 4 kW solar PV system at Singh Bowl Field.
Q 29 Corporate Energy Generation Actions Proposed for 2019	
	Pursue funding to support a number of energy efficiency measures to complement the scheduled retrofit of the Canada Games Aquatic Centre, including the upgrading pool air handler unit with mechanical dehumidification and heat recovery.
	Commission an energy study of the Westsyde Pool to explore energy and emissions savings opportunities to complement the scheduled mechanical upgrades planned for 2019.
	Upgrade Westsyde Pool's air distribution system to include a new heat pump to recover energy from the natatorium air into the facility's hydronic heating system.

Energy Generation	
Q 30 Is your local government developing, or constructing a	
<ul style="list-style-type: none"> • district energy system • renewable energy system 	No No
Q 31 Is your local government operating a	
<ul style="list-style-type: none"> • district energy system • renewable energy system 	No Yes
Q 32 Is your local government connected to a district energy system that is operated by another energy provider?	No
Q 33 Are you familiar with the 2018 List of Funding Opportunities for Clean Energy Projects Led by First Nations and Local Governments?	Yes

2018 GREENSPACE/NATURAL RESOURCE PROTECTION ACTIONS

Greenspace Actions

Greenspace/Natural Resource Protection refers to the creation of parks and greenways, boulevards, community forests, urban agriculture, riparian areas, gardens, recreation/school sites, and other green spaces, such as remediated brownfield/contaminated sites as well as the protection of wetlands, waterways and other naturally occurring features.

Q 34 + Q 36 Community-Wide Greenspace Actions Taken in 2018 + Additional Actions (Q 35 below Q 41)	
	Continuing the ongoing implementation of the City's Food and Urban Agriculture Plan including developing programming to teach and promote sustainable gardening and food practices (e.g. xeriscaping) and Promoting food and urban agricultural practices in the Activity Guide.
	Continuing to support local purchasing through online resources. Community Planning and Social and Community Development have been supporting ad space for the Buy Local/ Buy Fresh map.
	Carry forward the ongoing Service Agreement with Kamloops Food Bank for the FoodShare program to divert food from the landfill to go to people in need. Providing financial support of \$15,000 annually and a Permissive Tax Exemption for the Food Bank for 5 years.
	Completion of the Dufferin Park wetlands project.
	Ongoing rehabilitation of riparian areas in Kamloops.
	Continued school participation and natural areas education programs in school district 73.
	Continued rehabilitation of the West Highlands park pond area.
	Tree Coupon program provided to residents for eligible tree purchases. 750 coupons made available in spring to encourage tree planting within the community.
	Hosted 3 rd annual Green Living Expo, promoting sustainable products, technologies, and services to Kamloops residents.
Q 37 Community-Wide Greenspace Actions Proposed for 2019	
	Continue school participation and natural areas education programs in school district 73.
	Ongoing rehabilitation of riparian areas in Kamloops.
	Continue Tree Coupon program provided to residents for eligible tree purchases.
	Promotion of Integrated Pest Management through website and outreach to local nurseries and garden centres with display of posters and brochures to educate about pesticide control bylaw.
	Development of Carbon Park in Aberdeen's West Highlands Park – will include a community garden and a meeting space to accommodate educational opportunities

Q 40 Corporate Greenspace Actions Proposed for 2019	
	Planting of pollinator-friendly plants in front of Cunliffe House with educational components and brochures to encourage residents/visitors to create/restore pollinator-friendly habitats.

Greenspace	
Q 41 Does your local government have urban forest policies, plans or programs?	Yes
Q 35. Does your local government have policies, plans or programs to support local food production?	Yes

2018 SOLID WASTE ACTIONS

Solid Waste Actions

Reducing, reusing, recycling, recovering and managing the disposal of the residual solid waste minimizes environmental impacts and supports sustainable environmental management, greenhouse gas reductions, and improved air and water quality.

Q 42 + Q 43 Community-Wide Solid Waste Actions Taken in 2018 + Additional Actions	
	Launched the City's Bring Your Own (BYO) program focused on consumer awareness to reduce single-use products and associated wastes.
	Work directly with staff and students in Kamloops schools to help manage waste more efficiently. This is done through educational programs that encourage the reduction, reusing and recycling of waste. Reduction of food waste is also encourage through the use of vermicomposting bins. Additional programming on efficient water usage is covered, which aligns with energy conservation to treat and distribute water around the city.
	Continued community "Zero Waste" lending program. Community event hosts are able to borrow any of the City's 10 "Zero Waste" portable stations to help in working towards zero waste at events.
	Enhanced public awareness of and adherence to the requirements of the City's residential recycling collection program under the Recycle BC partnership, with a specific focus on residents living in multi-family complexes.
	Continued the implementation of recycling collection from community centres operated by the City, under the "Zero Waste" program.
	Supported expanded waste diversion systems at City Facilities (Bylaws and Sandman Centre)
	Partnered with New Afton Mine to divert wood chips from landfill. 1,890 tonnes of wood waste (50% of the total tonnage received in 2018) was kept out of the City landfill.
	Expanded Waste Wise app features to include a waste-sorting game. Collection day reminders were provided to 17% of households in the City as part of the Waste Wise program.
	Worked with the Thompson-Nicola Regional District (TNRD) to develop the Regional Solid Waste Management Plan.
	Continued to operate three yard waste collection sites and produce a soil amendment compost. Approximately 12,500 tonnes of yard waste is diverted from City landfills as a result of this program over the last 15 years.
	Celebrated Waste Reduction Week, a national event aimed to encourage mindfulness of the social, economic, and environmental impacts of consumption and waste.
	Encouraged composting of Halloween pumpkins by allowing residents to take them to a City yard waste site.
	Administered Christmas tree recycling program to keep trees out of the landfill. The collected Christmas trees were composted for use in parks and gardens. To date, Kamloops has recycled close to 150,000 trees.
	Pilot program to test feasibility of community composting through a neighbourhood drop-off model.
Q 44 Community-Wide Solid Waste Actions Proposed for 2019	

	Work with the TNRD to implement priorities of the Solid Waste Management Plan, specifically addressing commercial recycling and potential disposal bans on commercial cardboard.
	Continue to look for partnerships to divert wood waste from City landfills.
	Continue to find alternate uses and/or partnerships for used concrete brought to City landfills.
	Assess opportunities to reduce the use of single use products in the City.
	Partnership with Diabetes Canada to expand textile diversion bins at eight City facilities,
	Continue to work directly with the school district to offer sustainability programs within the schools of Kamloops.

Q 45 + Q 46 Corporate Solid Waste Actions Taken in 2018 + Additional Actions	
	Operation and maintenance of landfill gas collection system at Mission Flats landfill.
	On-going evaluation of options for the management of biosolids, yard waste and kitchen waste (organic food scraps).
	Continued exercising existing agreements for the off-site recycling of asphalt shingles received at the Kamloops Resource Recovery Center and expanded this initiative to include Mission Flats Landfill.
Q 47 Corporate Solid Waste Actions Proposed for 2019	
	Investigate potential disposal bans at City landfills (e.g. cardboard and yard waste).

Solid Waste	
Q 48 Does your local government have construction and demolition waste reduction policies, plans or programs?	Yes
Q 49 Does your local government have organics reduction/diversion policies, plans or programs?	Yes

2018 TRANSPORTATION ACTIONS

Transportation Actions

Transportation actions that increase transportation system efficiency emphasize the movement of people and goods, and give priority to more efficient modes, e.g. walking, cycling and public transit, can contribute to reductions in GHG emissions and more livable communities.

Q 50 + Q 51 Community-Wide Transportation Actions Taken in 2018 + Additional Actions	
	Completed infrastructure improvements from new development including addition of 581 m of sidewalk and 292 m of multi-use paths
	Attended various events to advocate for active transportation and transit (Spring and Fall Home Show, TRUSU BBQ, Green Living Expo).
	Continue to connect with the neighbourhood associations as needed to discuss traffic and active transportation options.
	Continued the Class Rides Free program.
	Continued advocacy and education of transportation through the City page and the City's website.
	Continued ProPass marketing and promotion.
	Continued to promote idling reduction in the community using media outlets and hosting an educational film event.
	Continued to explore the potential of collaborating with Thompson Rivers University on a community and/or corporate car share and/or bike share program.
	Continued to work with Bike to Work Week community group and engage City staff and Council.
Q 52 Community-Wide Transportation Actions Proposed for 2019	
	Develop a Community Electric Vehicle and e-Bike Strategy
	Attend events to advocate for active transportation and transit such as the Green Living Expo, Fall Homeshow, and TRUSU BBQ.
	Attend neighbourhood meetings to address inquiries regarding transportation including active transportation.
	Continue the Class Rides Free program.
	Continue ProPass marketing and promotion.
	Continue advocacy and education of transportation through the City page and the City's website.
	Initiate the senior ambassador program by visiting senior facilities to promote the use of public transit.
	Continue to explore the potential of collaborating with Thompson Rivers University on a community and/or corporate car share and/or bike share program.
	Attend elementary schools to promote and educate children about public transit.
Q 53 + Q 54 Corporate Transportation Actions Taken in 2018 + Additional Actions	
	Adopted community idling reduction bylaw.
	Ongoing road work including: Install sidewalk adjacent to 801 McGill Rd, sidewalks on River Rd from Valleyview Dr to the Trans-Canada Highway, a pedestrian shoulder on Bank Rd from Jensen Rd to Stansfield Rd, sidewalk on 2 nd Ave from Lansdowne to the Rail Crossing, sidewalk on Hugh Allan Dr from Lodgepole Dr to 1920 Hugh Allan Dr, sidewalk on Park Dr from Valleyview Dr to

	Marion Schilling parking lot, sidewalk on 11 th Avenue between Columbia and Pleasant, and Fraser Street between 9 th and Fraser Crescent.
	Adopted the Transportation Master Plan.
	Promoted idling reduction best practices through crew talks and internal communications.
	Finished construction of Xget'tem' trail (Peterson Creek) multi-use paved pathway, providing walkers and cyclists with a safe and direct link between Sahali and Downtown.
	NextRide was implemented on BC Transit buses and bus exchanges.
	Transit service expanded to Tk'emlups te Secwepemc lands.
	Installed accessible bus pads at 8 bus stops throughout the city.
Q 55 Corporate Transportation - Actions Proposed for 2019	
	Introduce four Electric Vehicles into the Corporate Fleet and install electric vehicle charging stations for fleet vehicles.
	Install new anti-idling signs on/near building entrances and key civic facilities.
	Continue to promote idling reduction best practices through crew talks and internal communications, as well as through community-wide, multi-media engagement campaign.
	Construct the multi-use pathway on Singh Street from Parkcrest Ave to Ord Rd.
	Ongoing road work including: install sidewalk on both sides of Victoria Street West between 1 st Avenue and the Overlanders bridge, and a sidewalk on Lorne Street between 7 th and 8 th .
	Install accessible bus pads at various bus tops throughout the City – up to 10 locations
	Adopt the Downtown Transportation Choices Strategy

Transportation	
Q 56 Does your local government have policies, plans or programs to support: <ul style="list-style-type: none"> • Walking • Cycling • Transit Use • Electric Vehicle Use 	Yes Yes Yes Yes
Q 57 Does your local government have a Transportation Demand Management (TDM) strategy (e.g. to reduce single-vehicle occupancy trips, increase travel options, provide incentives to encourage individuals to modify travel behaviour)?	In progress
Q 58 Does your local government integrate its transportation and land use planning?	Yes

2018 WATER AND WASTEWATER ACTIONS

Managing and reducing water consumption and wastewater is an important aspect of developing a sustainable built environment that supports healthy communities, protects ecological integrity, and reduces GHG emissions.

Q 59 + Q 60 Community-Wide Water and Wastewater Actions Taken in 2018 + Additional Actions	
	Continued water conservation education and at events and schools throughout the year.
	Continued to review Sprinkling Restrictions.
	Continued water conservation education and at events and schools throughout the year.
	Continued to promote water conservation techniques through offering healthy landscaping and xeriscaping workshops.
	Proclaimed July as Smart Irrigation Month.
	Reviewed the Water and sewer bylaw. The water by-law currently under review.
	Promoted water conservation techniques through promotion at public events, online, in city-facilities and in garden centres.
Q 61 Community-Wide Water and Wastewater Actions Proposed for 2019	
	Promote Smart Irrigation Month in local media.
	Continue water conservation education and at events and schools throughout the year.
	Promote water conservation techniques through offering healthy landscaping and xeriscaping workshops and 'lunch & learns'.

Q 62 + Q 63 Corporate Water and Wastewater Actions Taken in 2018 + Additional Actions	
	Continued to study short and long term biosolids beneficial reuse options.
	Completed construction of the North Shore emergency drinking water intake.

Water Conservation	
Q 65 Does your local government have water conservation policies, plans or programs?	Yes

2018 CLIMATE CHANGE ADAPTATION ACTIONS

This section of the CARIP survey is designed to collect information related to the types of climate impacts local governments are experiencing and how they are being addressed.

Q 66 Please identify the THREE climate impacts that are most relevant to your Local Government.	
<ul style="list-style-type: none"> • Warmer winter temperatures reducing snowpack • Increased temperatures increasing wildfire activity • Extreme weather events contributing to urban and overland flooding 	
Other (please specify):	
Q 67 In 2018 has your local government addressed the impacts of a changing climate using any of the following?	
Risk and Vulnerability Assessments	Yes
Risk Reduction Strategies	Yes
Emergency Response Planning	Yes
Asset Management	Yes
Natural/Eco Asset Management Strategies	Yes
Infrastructure Upgrades (e.g. stormwater system upgrades)	Yes
Beach Nourishment Projects	No
Economic Diversification Initiatives	No
Strategic and Financial Planning	Yes
Cross-Department Working Groups	Yes
Official Community Plan Policy Changes	Yes
Changes to Zoning and other Bylaws and Regulations	Yes
Incentives for Property Owners (e.g. reducing storm water run-off)	Yes
Public Education and Awareness	Yes
Research	Yes
Mapping	Yes
Partnerships	Yes

Q 68 Climate Change Adaptation Actions Taken in 2018	
Please elaborate on key actions and/or partnerships your local government has engaged in to prepare for, and adapt to a changing climate. Add links to key documents and information where appropriate.	
	50% completion of the Water System Master Plan Update (including discussion / analysis on reduced water consumption and indoor/outdoor water use and sustainability measures).
	Completed flood mitigation works via the KSTC Dike Pipe Filling project, with assistance from the UBCM / EMBC grant for flood mitigation.
	Continued interface fuel reduction programs.
Q 69 Climate Change Adaptation Actions Proposed for 2019	
	Aid in updating City's waterworks bylaw, including water conservation analysis.
	Completion of Valleyview / Rose Hill Master Watershed Plan.

	Completion of Peterson Creek Downtown Study
	Completion of Water System Master Plan Update, including sustainability discussion.
	Continue interface fuel reduction programs.
	Run pilot program to offer free Fire Smart assessments to residents in Pineview, and select areas of Westsyde and Heffley. As part of pilot program, the City is offering to chip any resident greenwaste removed as part of fire smarting their property.
Q 70 For more information please contact	
	Kirsten Wourms – 250-828-3317

Q 71. The following are key resources that may be helpful to your local government in identifying climate impacts, as well as, strategies, actions and funding to deal with them. For those resources that you have used, please indicate whether they were useful in advancing your work in climate change adaptation?

<p>Indicators of Climate Change for British Columbia Plan2Adapt Climate Projections for Metro Vancouver Climate Projections for the Capital Region Climate Projections for the Cowichan Valley Regional District Province of BC's BC Adapts Video Series Preparing for Climate Change: Implementation Guide for Local Governments Public Infrastructure and Engineering Vulnerability Committee's (PIEVC) Sea Level Rise Adaptation Primer BC Regional Adaptation Collaborative Webinars Retooling for Climate Change Water Balance Model Water Conservation Calculator</p> <p>Funding: National Disaster Mitigation Program (NDMP) Community Emergency Preparedness Fund (CEPF) Municipalities for Climate Innovation Program (MCIP) Climate Adaptation Partner Grants (FCM) Infrastructure Planning Grants (MAH) Federal Gas Tax Fund</p>	<p>Haven't Used Haven't Used Not Useful Not Useful Not Useful Useful Useful Haven't Used Not Useful Haven't Used Useful Useful Useful</p> <p>Useful Useful Useful Useful Useful Useful</p>
<p>Other (please specify)</p>	

2018 OTHER CLIMATE ACTIONS

Other Climate Actions

This section provides local governments the opportunity to report other climate actions that are not captured in the categories above.

Q 72 Community-Wide Other Actions Taken in 2018	
	Hosted the third annual Green Living Expo to educate on sustainable lifestyles in an interactive format.
	Worked with FortisBC to provide funding for block parties to help neighbourhood associations and community members build community by bringing people together and educating about home energy reduction. Four block parties were held in Kamloops with a total of approximately 630 participants.
	Initiated a mail-out to homeowners, rental apartments and local restaurants, informing and promoting of energy retrofits and upgrades.
	Planned launch of FortisBC's Energy Conservation Assistance Program to facilitate increased uptake in FortisBC energy retrofit program.
	Ran the "Cool It Challenge" in SD#73 schools to 259 students, offered through BCSEA. Challenging families to reduce their greenhouse gases through lifestyle changes over 4 weeks.
Q 73 Corporate Other Actions Taken in 2018	
	Continued to include sustainability criteria as a minimum 10% of all RFPs.
	Continued to distribute a quarterly email newsletter that informs both City staff and the public about sustainability news and events, including climate actions; over 1,500 recipients.
	Continued to divert waste from landfills at the City's annual Ribfest and Canada Day celebrations in Riverside Park.

Other	
Q 74 Are you familiar with the Community Lifecycle Infrastructure Costing Tool (CLIC) ?	Yes
Q 75 Is your local government using the CLIC tool?	Yes

INNOVATION AND PEER-TO-PEER LEARNING

Innovation

This section provides the opportunity to showcase an innovative *Corporate and/or Community-Wide* GHG reduction and/or climate change adaptation activity that your local government has undertaken and that has had, or has the potential to have, a significant impact. You are welcome to highlight an action that has already been listed.

Projects included here may be featured as success stories on the [B.C. Climate Action Toolkit](#) and/or shared with other local governments to inspire further climate action. Please add links to additional information where possible.

Communities that have conducted innovative initiatives may want to consider making applications to [CEA's Climate and Energy Action Awards](#), [FCM Sustainable Communities Awards](#) or to [FCM's National Measures Report](#).

Q 76 Community-Wide Innovation Action

The See the Heat program is a partnership between the City of Kamloops, FortisBC and the Thompson-Nicola Regional Library. The See The Heat program provides library members the opportunity to take home a thermal imaging camera that connects to their smart phone to learn more about the energy efficiency of their home. A thermal imaging camera allows people to see how well their house is insulated, how well doors and windows seal, what plug in's and outlets are particularly leaky, and the effects of leaving chimney flues open when not in use.

There are 20 thermal imaging cameras available for loan at any of the TNRL branches. Program participants receive a free draft-proofing kit to help them take immediate action to improve the air tightness of their house.

More info: <https://www.kamloops.ca/our-community/environment-sustainability/home-energy-efficiency/see-heat>

Q 78 For more information on actions described above contact

Derek de Candole: ddecandole@kamloops.ca

Programs, Partnerships and Funding Opportunities

Local governments often rely on programs, partnerships and funding opportunities to achieve their climate action goals. Please share the names of programs and organizations that have supported your local government's climate actions by listing each entry in the box below separated by a forward slash (e.g. program1/program2).

Mitigation

Q 79 Mitigation Programs, Partnerships and Funding

- The City of Kamloops has a service agreement with the FoodBank for their FoodShare food recovery program. Since 2007, over 11 million pounds of food has been diverted from the landfill as the Foodbank collects daily perishable items from local businesses. As of 2018, all grocery stores including Costco, joined the FoodShare program which further supports the agency's ability to distribute healthy food to community organizations and clients accessing the FoodBank. The Service Agreement with the FoodBank is for \$62,855 over five years, or \$15,949 in 2019.
- Partnered with the Province of BC and HPBAC to offer a local wood stove exchange program in Kamloops. Province and HPBAC contributed to program funding and promotions.
- BC Transit Partnership
- Active member of the Kamloops Air Quality Roundtable, made up of local industry representatives as well as representatives from local and provincial government bodies, First Nations, and special interest groups.
- Bike BC Funding totalling \$1 million for the Peterson Creek Multi-Use Pathway project.
- Partnership with FortisBC and City's Neighbourhood Matching Fund to offer Block Party funding.
- FortisBC partially funds the City's Community Energy Specialist position.
- BC Hydro partially funds the City's Corporate Energy Management efforts through their Commercial Energy Management Program. This partnership between BC Hydro and the City of Kamloops has existed since 2010.
- The City of Kamloops is also a member of BC Hydro Sustainable Communities Network, which provides partial funding for the City's Community Energy Manager position, as well as funding in support of the City's investigation of the BC Energy Step Code.

Adaptation

Q 80 Adaptation Programs, Partnerships and Funding

- Working with the Kamloops Food Policy Council to implement the Food and Urban Agricultural Plan. E.g. partnering on seeking funds to develop a yard/garden share program
- Since 2009, the City of Kamloops and Interior Community Services (ICS) have partnered to develop and manage nine community gardens, offering 290 plots throughout the community. The City provides the land and infrastructure for the gardens, while ICS provides the maintenance, ensures gardens are organic, and manages the assignment of plots to gardeners. The ICS Service Agreement for Community Gardens is \$162,413 over five years, or \$41,210 for the 2019 calendar year.

2018 CARBON NEUTRAL REPORTING

Local governments are required to report on their progress in achieving their carbon neutral goal under the [B.C. Climate Action Charter](#). Working with B.C. local governments, the joint Provincial-UBCM Green Communities Committee (GCC) has established a common approach to determining carbon neutrality for the purposes of the Climate Action Charter, including a Carbon Neutral Framework and supporting guidance for local governments on how to become carbon neutral.

Prior to completing this portion of the survey, please ensure that you are familiar with guidance available on the [B.C. Climate Action Toolkit website](#), especially the [Workbook](#) and [Becoming Carbon Neutral: A Guide for Local Governments in British Columbia](#).

Please note: As a result of the BC Recycling Regulation, local governments are no longer required to account for GHG emissions from vehicles, equipment and machinery required for the collection, transportation and diversion of packaging and printed paper, in their annual Climate Action Revenue Incentive Program (CARIP) reports.

Reporting Emissions

Q 81 Did your local government measure corporate GHG emissions for 2018?	Yes
Q 82 If your local government measured 2018 corporate GHG emissions, please report the number of corporate GHG emissions from services delivered directly by your local government* (in tonnes of carbon dioxide equivalent)	7,822
Q 83 If your local government measured 2018 corporate GHG emissions, please report the number of corporate GHG emissions from contracted services** (in tonnes of carbon dioxide equivalent)	453
Q 84 TOTAL A: CORPORATE GHG EMISSIONS FOR 2018 (Direct GHGs + Contracted GHGs)	8,275 tCO₂e

*Adjusted with removal of emissions associated with collection, transportation and diversion of packaging and printed paper as per [GCC CN Framework](#).

**Applied the average percentage of fuel consumption (2016) to the dollar value of 2018 SOFI list of Contracted Goods & Services.

Reporting Reductions and Offsets

To be carbon neutral, a local government must balance their TOTAL corporate GHG emissions generated in 2018 by one or a combination of the following actions:

- undertake GCC-supported Option 1 Project(s)
- undertake GCC-supported Option 2 Project(s)
- purchase carbon offsets from a credible offset provider

For more information about options to balance or offset corporate GHG emissions please refer to [Becoming Carbon Neutral: A Guidebook for Local Governments in British Columbia](#).

If applicable, please report the 2018 GHG emissions reductions (in tonnes of carbon dioxide equivalent (tCO2e)) being claimed from any of the following Option 1 GHG Reduction Projects:

OPTION 1 PROJECTS	REDUCTIONS
Q 85 Energy Efficient Retrofits (in tonnes of carbon dioxide equivalent (tCO2e))	N/A
Q 86 Solar Thermal (in tonnes of carbon dioxide equivalent (tCO2e))	N/A
Q 87 Household Organic Waste Composting (in tonnes of carbon dioxide equivalent (tCO2e))	N/A
Q 88 Low Emission Vehicles (in tonnes of carbon dioxide equivalent (tCO2e))	N/A
Q 89 Avoided Forest Conversion (in tonnes of carbon dioxide equivalent (tCO2e))	N/A
Q 90 TOTAL B: REDUCTIONS FROM ALL OPTION 1 PROJECTS FOR 2018	0 tCO2e

Q 91 If applicable, please report the names and 2018 GHG emissions reductions (in tonnes of carbon dioxide equivalent (tCO2e)) being claimed from Option 2 GHG Reduction Projects:

Option 2 Project Name	REDUCTIONS
Option 2 GHGs Reduced (tCO2e)	N/A
Option 2 Project Name	N/A
Option 2 GHGs Reduced (tCO2e)	N/A
Option 2 Project Name	N/A
Option 2 GHGs Reduced (tCO2e)	N/A
Q 92 TOTAL C: REDUCTIONS FROM ALL OPTION 2 PROJECTS FOR 2018	0 tCO2e

Offsets

Q 93 If applicable, please report the name of the offset provider, type of project and number of offsets purchased (in tonnes of carbon dioxide equivalent (tCO2e)) from an offset provider for the 2018 reporting year:

NOTE: DO NOT INCLUDE ANY FUNDS THAT MAY BE SET ASIDE IN A CLIMATE ACTION RESERVE FUND.

Offset Provider Name	OFFSETS
Offsets (tCO2e)	N/A
Offset Provider Name	N/A
Offsets (tCO2e)	N/A
Q 94 TOTAL D: OFFSETS PURCHASED FOR 2018	0 tCO2e

Q 95 TOTAL REDUCTIONS AND OFFSETS FOR 2018 (Total B+C+D) = 0 tCO2e

Corporate GHG Emissions Balance for 2018

Your local government's Corporate GHG Emissions Balance is the difference between total corporate offsetable GHG emissions (direct + contracted emissions) and the GHG emissions reduced through GCC Option 1 and Option 2 projects and/or the purchase of offsets.

Q 96 CORPORATE GHG EMISSIONS BALANCE FOR 2018 = (A – (B+C+D)) = 8,275 tCO2e

**If your Corporate GHG Emissions Balance is negative or zero,
your local government is carbon neutral.
CONGRATULATIONS!**

Q 97 If your local government was carbon neutral in 2018, please record any emissions reductions you will be carrying over for future years and the source of the reductions, including the year they were earned (e.g. organics diversion, 2018 100 tCO2e)

SOURCE OF CARRY OVER EMISSION REDUCTIONS (and year earned)	REDUCTIONS
N/A	N/A
Q 98 BALANCE OF REDUCTIONS ELIGIBLE FOR CARRY OVER TO NEXT YEAR	0 tCO2e

Carbon Neutral Reporting	
Q 99 Does your local government set aside funds in a climate reserve fund or similar?	Yes

GCC CLIMATE ACTION RECOGNITION PROGRAM

Green Communities Committee Climate Action Recognition Program

The joint Provincial-UBCM Green Communities Committee (GCC) is pleased to be continuing the Climate Action Recognition Program again this year. This multi-level program provides the GCC with an opportunity to review and publicly recognize the progress and achievements of each Climate Action Charter (Charter) signatory.

Recognition is provided on an annual basis to local governments who demonstrate progress on their Charter commitments, according to the following:

Level 1 – Demonstrating Progress on Charter Commitments: For local governments who demonstrate progress on fulfilling one or more of their Charter commitments.

Level 2 – Measuring GHG Emissions: For local governments that achieve Level 1, and who have measured their Corporate GHG Emissions for the reporting year and demonstrate that they are familiar with their community’s energy and emissions inventory (i.e. CEEI)

Level 3 – Accelerating Progress on Charter Commitments: For those local governments who have achieved Level 1 and 2 and have demonstrated undertaking significant action (corporately or community wide) to reduce GHG emissions in the reporting year (e.g. through undertaking a GHG reduction project, purchasing offsets, establishing a reserve fund).

Level 4 - Achievement of Carbon Neutrality: For local governments who achieve carbon neutrality in the reporting year.

Q 100 Based on your local government's 2018 CARIP Climate Action/Carbon Neutral Progress Survey, please check the GCC Climate Action Recognition Program level that best applies:

<input type="checkbox"/>	Level 1 – Demonstrating Progress on Charter Commitments	
<input checked="" type="checkbox"/>	Level 2 – Measuring GHG Emissions	✓
<input type="checkbox"/>	Level 3 – Accelerating Progress on Charter Commitments	
<input type="checkbox"/>	Level 4 - Achievement of Carbon Neutrality	
<input type="checkbox"/>	Not Sure	

Q 101 Related to Level 3 recognition, if applicable, please identify any new or ongoing corporate or community wide GHG reduction projects (other than an Option 1 or Option 2 project) undertaken by your local government that reflects a significant investment of time and/or financial resources and is intended to result in significant GHG reductions:

PROJECT NAME: Canada Games Aquatic Centre Energy Efficiency Retrofit

The planned Canada Games Aquatic Centre (CGAC) Infrastructure Improvement Project involves a material rehabilitation of the building envelope, mechanical and electrical systems. The City has applied to the CleanBC Communities Fund (CCF) to leverage this planned project and significantly improve the energy efficiency of the CGAC. The goal is to implement a bundle of complementary energy conservation measures that will lead to improving the overall building energy performance by 25% to 50% over the baseline BC Building Code requirements. The City's CCF application requested funding for the incremental costs of achieving these 'above code' energy efficiency improvements through high-performance upgrades to the building envelope, mechanical and electrical systems. Potentially, the enhanced upgrades could result in achieving Step 2 or 3 of the BC Energy Step Code standard for Part 3 buildings.

Other sites and projects were considered (e.g. Stuart Wood, Memorial Arena), however, after consideration of the CCF's program eligibility, time line and application requirements, it became clear that the CGAC Energy Efficiency Retrofit Project is best aligned with this funding opportunity. The CGAC project is "shelf-ready" as a number of pre-design efforts have already been completed, including: a full schematic and pre-design report, a Thermal Analysis Study identifying key energy conservation measures, and has \$9M of funding committed in the City's Capital Budget. Furthermore, the CGAC consumes more than \$275,000 per year on electricity and natural gas, and accounts for 10% of the City's total GHG emissions from municipal operations.