

Climate Action Revenue Incentive (CARIP) Public Report for 2018

Local Government: City of Penticton

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The City of Penticton 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	
	Increased public engagement strategies to gather input on the future of Penticton through the drafting of the revised Official Community Plan.
	Submitted an application to infrastructure Canada's Smart Cities Challenge in an effort to gain funding to help build a physically and mentally healthier, strongly-connected Penticton where everyone has access and opportunity to maximize their health potential.
	Completed Skaha Bluffs Boundary Extension, which includes the conservation dedication of 150 acres of recreational and ecologically-valuable land adjacent to Skaha Bluffs Provincial Park as park land, and the creation of additional City-owned parkland and trails within the remainder of the subdivision.
Q 8 Community-Wide Broad Planning Actions Proposed for 2019	
	Begin implementation of the new Official Community Plan (2019). Official Community Plans guide the future of communities through a land use plan, goals and policies in areas like housing, environment and transportation, and Development Permit Area Guidelines. The vision driving the new 2019 OCP is one of resilience and livability.
	Develop Community Energy and Emissions Inventory to generate baseline data for community emissions.
Q 9 + Q 10 Corporate Broad Planning Actions Taken in 2018 + Additional Actions	
	Conducted a utility rate review for water, electrical, sanitary sewer and agricultural water utilities. The goal of the review was to determine what the utility rates need to be in order to properly fund the operation of the utilities, sustain existing infrastructure and construct new projects.
Q 11 Corporate Broad Planning Actions Proposed for 2019	
	Lands management plan to better inventory and efficiently manage city owned lands and buildings. This review will be done with a lens towards parks land acquisition and more efficiently purchasing and selling lands in the City's interest.

Broad Planning	
Q 12 What is (are) your current GHG reduction target(s)?	GHG reduction targets are a 5% overall community reduction in GHG emissions from 2007 levels by 2020 (This represents a 20% reduction per person). 10% overall community reduction in GHG emissions by 2030 (This represents a 35% reduction per person). Our Corporate reduction goals are to reduce GHG emissions by 20% by 2020.
Q 13 Are you familiar with your local government's community energy and emissions inventory (e.g. CEEI or another inventory)?	No
Q 14 What plans, policies or guidelines govern the implementation of climate mitigation in your community?	No No Yes Yes Yes
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	
	Continuation of the Home Energy Loan Program.
	Implementation of the BC Energy Step Code – Step One, as a requirement for all newly constructed residential buildings.
	Provided incentives for any residential dwelling that achieves a minimum of Step 3 of the BC Energy Step Code at time of occupancy.
	Installation of LED safety lighting in the downtown core.
Q 18 Community-Wide Building and Lighting Actions Proposed for 2019	
	Continuation of the Home Energy Loan Program.
	Ongoing - Provide incentives for any residential dwelling that achieves a minimum of Step 3 of the BC Energy Step Code at time of occupancy.

Q 19 + Q 20 Corporate Building and Lighting Actions Taken in 2018 + Additional Actions	
	Installation of four (4) new HVAC units at Penticton Trade and Convention Centre.
	Installation of two (2) new sets of double doors for the Community Centre. One set at the Bugaboo University entrance and one set at the Cleland Theatre entrance to enhance security and environmental control.
	Conserved natural gas at public facilities due to the pipeline rupture near Prince George by: reducing heat in buildings by 1.5 degrees; turning off infrared heaters at spectator stands; and lowered hot water tank, hot tub, and pool temperatures.
	Implemented Direct Digital Control (DDC) system 'owners' at key facilities to manage DDC/HVAC system details for optimized building performance.
Q 21 Corporate Building and Lighting Actions Proposed for 2019	
	Installation of two (2) additional sets of double doors at the Community Centre to enhance security and environmental control.
	Replace one (1) Rooftop Unit and one (1) Air Handling Unit at the Library and Museum.
	Upgrade the ice chiller at Memorial Arena by installing a new stainless steel plate exchanger which transfers cooling to the system more efficiently.

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?	Yes

P5 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	
	Continuation of the Net Metering program.
	Continuation of the Home Energy Loan program.
Q 26 Community-Wide Energy Generation Actions Proposed for 2019	
	Continuation of the Net Metering program.

	Continuation of the Home Energy Loan program.
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Q 27 + Q 28 Corporate Energy Generation Actions Taken in 2018 + Additional Actions	
	Continuation of Voltage Conversion Program, increasing the distribution system from 8,300 volts to 12,470 volts in order to increase overall energy efficiency.
	Conducted feasibility study on installing a smart grid system to: control the input power of a City PV system; control water levels for reservoirs for the water system; and to operate the Waste Water treatment facility's emergency generator during peak power periods to reduce the electrical demand for the municipal owned electrical utility.
	Conducted feasibility study on installing a Photovoltaic system at City Hall and City Yards.
Q 29 Corporate Energy Generation Actions Proposed for 2019	
	Continuation of Voltage Conversion Program, increasing the distribution system from 8,300 volts to 12,470 volts in order to increase overall energy efficiency.
	Continue feasibility study on operating the Waste Water treatment facility's emergency generator during peak power periods to reduce the electrical demand for the municipal owned electrical utility.

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 • none of the above 	No No
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)	
	Planting of over 75 trees in parks, boulevards, and the 300 block of Main Street.
	Creation of the natural burial section at Lakeview Cemetery to reduce chemicals and foreign materials contaminating soils, while allowing an alternative for interment options.
	Participate in annual TD Tree Days, with a focus on planting native species in the riparian area along Penticton Creek between Nanaimo and Ellis.
	Continuation of the Adopt-a-Park program. Community members are supplied with equipment and safety gear and undertake maintenance initiatives at various parks and trails.
Q 37 Community-Wide Greenspace Actions Proposed for 2019	
	Planting of over 100 trees throughout parks in Penticton.
	Participate in annual TD Tree Days, with a focus on removing non-native species and planting native trees, shrubs, sedges and grasses along the riparian area of Three Mile Beach.
	Continuation of the Adopt-a-Park program. Community members are supplied with equipment and safety gear and undertake maintenance initiatives at various parks and trails.
	Undertake extensive public engagement campaign to determine the future use and needs of the Robinson Property (A City owned park).
	Undertake extensive public engagement campaign to determine the future use and needs of Skaha Lake Park.

Q 38 + Q 39 Corporate Greenspace Actions Taken in 2018 + Additional Actions	
	Planting of shrubs, 10 trees, and replacement of the irrigation system to increase water efficiency at Lakeview Cemetery.
	Continuation of Integrated Pest Management (IPM) principles in all aspects of landscape management in an effort to minimize use of pesticides, via monitoring, threshold tolerance, and use of vinegars and soaps as control agents.
	Reinstall 95+ Treegator bags on unirrigated trees aged 4 years and under to reduce water consumption and to help ensure trees are resilient and reach maturity.
	Work with community partners OASIS and OSSS at riverside park to replant native species along the watercourse from Skaha Lake to the Retention Pond.
	Ongoing - Support operational budgets for maintenance programs that benefit the environment, including: urban forests, tree watering, horticultural maintenance.
Q 40 Corporate Greenspace Actions Proposed for 2019	
	Collect data and coordinates on all park infrastructure and facilities, and integrate the data into the City's Geographical Information System database to better track assets in parks.
	Continuation of Integrated Pest Management (IPM) principles in all aspects of landscape management in an effort to minimize use of pesticides, via monitoring, threshold tolerance, and use of vinegars and soaps as control agents.
	Reinstall 95+ Treegator bags on unirrigated trees aged 4 years and under to reduce water consumption and to help ensure trees are resilient and reach maturity.
	Ongoing - Support operational budgets for maintenance programs that benefit the environment, including: urban forests, tree watering, horticultural maintenance.
	Continuation of irrigation system replacement at Lakeview Cemetery and Leir House to increase water efficiency.

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	
	Continue to conduct curbside recycling and yard waste audits for single and multifamily residences to help identify common contaminants entering the solid waste stream.
	Ongoing - City staff to conduct presentations at public events focused on recycling education and compliance.
	Ongoing - Increase the number of garbage and recycling facilities in the downtown core, parks and recreation areas.
	Ongoing – Christmas tree recycling campaign.
Q 44 Community-Wide Solid Waste Actions Proposed for 2019	
	Support the provincial ‘Love Food Hate Waste’ campaign aimed at reducing the amount of food waste generated at households in BC.
	Launch multifamily recycle signage campaign aimed at helping residents identify allowable materials and to decrease recycling contamination and residue.
	Ongoing – Christmas tree recycling campaign.
	Develop report for Council with recommendations on measures to reduce the use of plastic bags throughout Penticton.

Q 45 + Q 46 Corporate Solid Waste Actions Taken in 2018 + Additional Actions	
	Conducted biosolids processing review to identify alternatives and upgrades to the current composting system with evaluations based on financial, environmental, and social impacts.
	Procurement department investigated feasibility of limiting the purchases of single-use plastics, contributing to overall waste reduction.
	Hire two student Recycle Ambassadors to conduct public education on best recycling practices through attending community events and targeted recycling audits of single family and multifamily dwellings.
	Renew collector agreement with Recycle BC to ensure that recyclable materials are sorted and recycled responsibly.
Q 47 Corporate Solid Waste Actions Proposed for 2019	

	Continue biosolids process review to identify alternatives and upgrades to the current composting system with evaluations based on financial, environmental, and social impacts.
	Hire two student Recycle Ambassadors to conduct public education on best recycling practices through attending community events and targeted recycling audits of single family and multifamily dwellings. Ambassadors will also support the provincial 'Love Food Hate Waste' campaign.

Solid Waste	
Q 48 Does your local government have construction and demolition waste reduction policies, plans or programs?	No
Q 49 Does your local government have organics reduction/diversion policies, plans or programs?	No

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	
	Conduct maintenance on existing photovoltaic panels and batteries at bus stops to ensure lights and panels are working and efficient.
	Apply for the Rick Hansen/BC Accessibility Grant Program to investigate the accessibility of existing pathways and parks (KVR Trail, Penticton Creek Pathway, and TransCanada Trail).
	Install historic informational signage at the KVR trail.
	Provided free public transit for voters traveling to polling stations within Penticton.
Q 52 Community-Wide Transportation Actions Proposed for 2019	
	Undertake route analysis for lake-to-lake bike route through the City as part of the Cycling Network Plan.
	Install four level II electric vehicle charging stations at the new public pay parking lot located at 307 Ellis Street.
	Submit an application to the Clean BC Communities fund to offset 75% of the purchase and installation cost of four electric vehicle charging stations at 307 Ellis Street.
	Replace 51 aging transit benches and 11 bus shelters, and install an additional 4 transit shelters in high use areas.
	Support Fortis BC in their proposal to Natural Resources Canada Electric Vehicle and Alternative Build Infrastructure Deployment Initiative for a "BC Southern Interior EV Fast Charging Network Project" by installing an additional DCFC (Direct Current Fast Charger) at 233 Backstreet Boulevard.

Q 53 + Q 54 Corporate Transportation Actions Taken in 2018 + Additional Actions	
	Purchased two hybrid electric vehicles for the building department.

	Investigated the feasibility of single engine sweepers to maximize fuel efficiency.
	Ongoing – Create reports within the GPS system to promote good driving habits and maximize route efficiency.
	Ongoing – Replacing aging vehicles with new and more fuel efficient units.
	Explore future aerial truck requirements to possibly utilize hybrid operation of the aerial device.
Q 55 Corporate Transportation - Actions Proposed for 2019	
	Purchase hybrid electric aerial bucket truck which is expected to reduce fuel consumption by approximately 5200 litres per year.
	Ongoing – Create reports within the GPS system to promote good driving habits and maximize route efficiency.
	Ongoing – Replacing aging vehicles with new and more fuel efficient units.
	Investigate the feasibility of single engine sewer flush trucks.
	Investigate the feasibility of hybrid electric digger derricks.
	Replace two-stroke gasoline line painter with a fully electric line painter (zero emissions and rechargeable battery).
	Replace solvent based parts cleaner with a high pressure water based parts cleaner.

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)?	No
Q 58 Does your local government integrate its transportation and land use planning?	Yes

2018 WATER AND WASTEWATER ACTIONS

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	
	Continuation of Phase I & II of the Drought Management Plan, which focuses on six technical assessments: water system profile; evaluation of economic impacts of drought; inter-annual upland reservoir refill variability; drought forecasting procedures; risk of multi-year drought; and definition of drought stages and responses.

	Partnered with the Municipal Enforcement Sewer Use Group and the Canadian Water and Wastewater Association to help raise awareness of “flushable wipes” and their damage to municipal sewer systems.
	Ongoing – Use of reclaimed water to irrigate large grassed areas at City parks, schools fields and the Penticton Golf & Country Club.
Q 61 Community-Wide Water and Wastewater Actions Proposed for 2019	
	Ongoing – Use of reclaimed water to irrigate large grassed areas at City parks, schools fields and the Penticton Golf & Country Club.

Q 62 + Q 63 Corporate Water and Wastewater Actions Taken in 2018 + Additional Actions	
	Purchase and install a second high speed turbo blower, contributing to decreased energy use.
	Proactively replace aging sanitary sewer infrastructure in order to maintain and avoid significant failures that could impact water service.
	Evaluate storm water infrastructure funding to ensure maintenance and operational costs are accounted for.
	Upgrade Carmi Reservoir from 1,140 cubic meters to 2,440 cubic meters to provide enhanced fire protection and while addressing the current storage deficiency.
Q 64 Corporate Water and Wastewater Actions Proposed for 2019	
	Conduct major upgrade to the electric controls and pumps at the Okanagan Lake Pump Station. This will lead to energy reduction and reduced chemical use at the Water Treatment Plant.
	Eliminate the use of chlorine gas at the Water Treatment Plant, and instead use liquid chlorine for water treatment.

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 • Changes to temperature and precipitation causing seasonal drought • Heatwaves impacting population health • Increased temperatures increasing wildfire activity • Increased temperatures affecting air quality • Changing temperatures influencing species migration and ecosystem shifts • Changing temperatures influencing ecosystem shifts • Extreme weather events contributing to urban and overland flooding • Sea level rise and storms causing coastal flooding and/or erosion 	

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	Yes
Economic Diversification Initiatives	Yes
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
Other (please specify):	

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.	
	Implement creek revitalization as part of the Penticton Creek Master Plan. Creek revitalization will provide increased flood protection while restoring the creek to a more natural state.
	Remove accumulated material from Ellis and Penticton creeks and add additional rock armouring for erosion protection.
	Repair damage sustained during 2017 flooding along Okanagan Lake waterfront, and install additional rock armouring to protect the area from further erosion and damage.
	Strengthening of the City's Emergency Operations Center (EOC) system.
Q 69 Climate Change Adaptation Actions Proposed for 2019	
	Implement creek revitalization as part of the Penticton Creek Master Plan. Creek revitalization will provide increased flood protection while restoring the creek to a more natural state.
	Complete Ellis Creek Master Plan.
	Conclude design of Reach 12 of Penticton Creek, with construction starting 2020.
Q 70 For more information please contact	
	David Kassian, Community Sustainability Coordinator, David.kassian@penticton.ca

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?	
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 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	Useful Useful Not Useful Not Useful Not Useful Haven't Used Useful Haven't Used Not Useful Haven't Used Haven't Used Haven't Used Haven't Used Haven't Used Useful Useful Useful Useful Useful
Other (please specify)	

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.

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 City of Penticton has implemented the BC Energy Step Code effective March 15, 2019. The BC Energy Step Code is an optional compliance path in the BC Building Code that local governments may use to incentivize or require a level of energy efficiency in new construction that goes above and beyond the requirements of the BC Building Code. This is now mandatory within the City of Penticton, and compliance with the BC Energy Step Code – Step One is required for applications for new residential buildings, including:

- Single Detached Houses;
- Duplexes;
- Three-plex Housing;
- Four-plex Housing;
- Rowhousing;
- Low Rise Apartment Housing; and
- Accessory suites (when part of new construction).

The BC Energy Step Code helps communities chart a course to a future in which all of British Columbia's new buildings will be net-zero ready by 2032. Such high performance buildings will play a key role in reducing greenhouse gas emissions and helping reach our climate targets. Any dwelling which achieve a minimum of Step 3 of the Step Code at time of Occupancy, will receive a 5% building permit fee rebate.

Additional information can be found at:

<https://www.penticton.ca/EN/main/departments/building/bc-energy-step-code-for-new-buildings.html>

Q 78 For more information on actions described above contact

David Kassian, Community Sustainability Coordinator, david.kassian@penticton.ca, or buildinginfo@penticton.ca for direct inquiries regarding the Step Code.

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

Please contact David Kassian, Community Sustainability Coordinator, for more information.
David.kassian@penticton.ca

Adaptation

Q 80 Adaptation Programs, Partnerships and Funding

Please contact David Kassian, Community Sustainability Coordinator, for more information.
David.kassian@penticton.ca

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)	1,778.93
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)	202.23
Q 84 TOTAL A: CORPORATE GHG EMISSIONS FOR 2018 (Direct GHGs + Contracted GHGs)	2,018.48 tCO₂e

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))	
Q 86 Solar Thermal (in tonnes of carbon dioxide equivalent (tCO₂e))	
Q 87 Household Organic Waste Composting (in tonnes of carbon dioxide equivalent (tCO₂e))	
Q 88 Low Emission Vehicles (in tonnes of carbon dioxide equivalent (tCO₂e))	
Q 89 Avoided Forest Conversion (in tonnes of carbon dioxide equivalent (tCO₂e))	439 (2018), 807 (2017)

Q 90 TOTAL B: REDUCTIONS FROM ALL OPTION 1 PROJECTS FOR 2018	1246 tCO₂e
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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)	
Option 2 Project Name	
Option 2 GHGs Reduced (tCO₂e)	
Option 2 Project Name	
Option 2 GHGs Reduced (tCO₂e)	
Option 2 Project Name	
Option 2 GHGs Reduced (tCO₂e)	
Q 92 TOTAL C: REDUCTIONS FROM ALL OPTION 2 PROJECTS FOR 2018	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)	773
Offset Provider Name Cowichan Energy Alternatives Society	
Offsets (tCO₂e)	
Q 94 TOTAL D: OFFSETS PURCHASED FOR 2018	773 tCO₂e



Q 95 TOTAL REDUCTIONS AND OFFSETS FOR 2018 (Total B+C+D) = 2019 tCO₂e

Corporate GHG Emissions Balance for 2018

Your local government's Corporate GHG Emissions Balance is the difference between total corporate offsettable 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)) = 0 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
Q 98 BALANCE OF REDUCTIONS ELIGIBLE FOR CARRY OVER TO NEXT YEAR	

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