

## Survey Template

### For the 2018 CARIP Climate Action/Carbon Neutral Progress Survey

Local governments are required to submit the 2018 CARIP Climate Action/Carbon Neutral Progress Survey on or before June 1, 2019.

#### Use Template to Collect Information

This Survey Template has been provided to help local governments complete the survey and report its contents. The template can be used to:

- gather and record survey responses before inputting data into the survey; and/or
- create the public report.

Alternatively, a local government may choose to use a template or format of their own design.

Responses entered into this Survey Template can be cut and pasted into the online survey. The survey asks for up to five actions in each category, and there is a place in the survey to report additional actions if desired. In this Survey Template, simply add more lines to the tables to report more than five actions.

#### Public Reports:

Public reports must contain the same information as submitted in the 2018 Climate Action/Carbon Neutral Progress Survey. Because respondents are unable to generate a report of survey responses, Ministry staff will send each respondent a PDF version of their CARIP report once it has been completed online.

**For purposes of the CARIP Survey, the following definitions apply:**

#### COMMUNITY-WIDE ACTIONS

Actions undertaken to reduce GHG emissions in the community at-large (e.g. not related to corporate operations).

#### CORPORATE ACTIONS

Actions undertaken to reduce GHG emissions produced as a result of a local government's delivery of "traditional services", including fire protection, solid waste management, recreational/cultural services, road and traffic operations, water and wastewater management, and local government administration.

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## Climate Action Revenue Incentive (CARIP) Public Report for 2018

**Local Government:**

The District of Summerland

**Report Submitted by:**

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**Date:**

June 1, 2019



The District of Summerland 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.

<b>Q 6 + Q 7 Community-Wide Broad Planning Actions Taken in 2018 + Additional Actions</b>	
	Completion of Parks & Recreation Master Plan which includes a section on Climate Change, integrates Summerland's Community Climate Action Plan throughout the document, and considers recommendations which support GHG emission reductions and energy efficiencies
	Participated in regional meetings regarding BC Energy Step Code implementation
<b>Q 8 Community-Wide Broad Planning Actions Proposed for 2019</b>	
	Review and update OCP development permit area guideline
	Consult community and industry members on implementation of the BC Energy Step Code
	Complete update to Community Climate Action Plan
	Bring forward new zoning bylaw with best practices related to environmental impacts
	Bring forward a new Building Bylaw that includes components of Step Code for Council to consider
	Sponsor the Cool It! Educational program in local classrooms

<b>Q 9 + Q 10 Corporate Broad Planning Actions Taken in 2018 + Additional Actions</b>	
	Continued with the preparation of an Integrated Asset Management and Infrastructure Investment Plan
	Finalized Summerland's Green Revolving Fund
<b>Q 11 Corporate Broad Planning Actions Proposed for 2019</b>	
	Complete update to Corporate Climate Action Plan
	Finalize the Integrated Asset Management and Infrastructure Investment Plan
	Complete Asset Management Policy & Strategy, which include climate change and whole-life cycle cost considerations
	Engage staff with Green Revolving Fund projects

<b>Broad Planning</b>	
<b>Q 12 What is (are) your current GHG reduction target(s)?</b>	<b>(Please provide details here)</b> 33 percent below 2007 levels by the year 2020; and 80 percent below 2007 levels by the year 2050
<b>Q 13 Are you familiar with your local government's community energy and emissions inventory (e.g. <a href="#">CEEI</a> or another inventory)?</b>	<b>Yes/No</b>

<p><b>Q 14 What plans, policies or guidelines govern the implementation of climate mitigation in your community?</b></p> <ul style="list-style-type: none"> <li>• Community Energy and Emissions Plan</li> <li>• Integrated Community Sustainability Plan</li> <li>• Community- Wide Climate Action Plan</li> <li>• Official Community Plan</li> <li>• Regional Growth Strategy</li> <li>• Do not have a plan</li> <li>• Other:</li> </ul>	<p>Yes/No Yes/No Yes/No Yes/No Yes/No Yes/No Yes/No</p>
<p><b>Q 15 Does your local government have a corporate GHG reduction plan?</b></p>	<p>Yes/No</p>

## 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.

<b>Q 16 + Q 17 Community-Wide Building and Lighting Actions Taken in 2018 + Additional Actions</b>	
	Christmas Light upgrades – replace old decorations with LED decorations (year 2 of 3 to replace all decorations)
	Hosted two sold-out workshops on energy efficiency and solar energy for community members to learn about DIY energy improvements and options for renewable energy
	Continue to partner with FortisBC to provide information about energy efficiency rebates and programs to residents through leaflets at utility cashier desk, newsletter articles, workshops, word of mouth
<b>Q 18 Community-Wide Building and Lighting Actions Proposed for 2019</b>	
	Christmas Light upgrades – replace old decorations with LED decorations (year 3 of 3 to replace all decorations)
	Launch energy efficiency awareness program for residents and businesses, with information about options to reduce energy use and incentives to reduce energy consumption

<b>Q 19 + Q 20 Corporate Building and Lighting Actions Taken in 2018 + Additional Actions</b>	
	Completed retrofit of 923 streetlights to LEDs
	Replacement of hot water system at the Works & Utilities Office
	Replacement of lightbulbs within some corporate offices to LEDs
	Completion of Summerland Aquatic & Fitness Centre building condition assessment which includes building energy assessment, energy use and efficiency
	Installed Skype cameras and set up per-room accounts so that we can have remote meetings between offices
	Constructed a new, more energy efficient building for Peach Orchard Lift Station

	Lighting upgrades to LEDs completed at FireHall on 50 lights
	Lighting upgrades to LEDs completed at Arena on 50 lights
	Completed full lighting audit and business case for upgrading indoor and outdoor lighting at all District-owned buildings
<b>Q 21 Corporate Building and Lighting Actions Proposed for 2019</b>	
	<p>Completion of ASHRAE Level 2 audits on all 12 major District-owned buildings, with implementation plan for recommendations with best combination of energy and cost savings.</p> <p>Existing plans for upgrades and retrofits include:</p> <ul style="list-style-type: none"> <li>• Halogen exhibition lighting in museum change to LED lighting for green space at the cultural hub</li> <li>• Planned retrofit of Arts and Cultural Centre all lights to LED</li> <li>• Update Arts and Cultural Centre, and Museum HVAC (30 years old)</li> <li>• 2019 new arena air handling unit installed for the banquet room (complete)</li> <li>• Roof repairs at Municipal Hall, Museum, Bandshell, and Horseshoe Club Building</li> <li>• Replace HVAC units at Works &amp; Utilities office, filter building at wastewater treatment plant, Municipal Hall, and Museum</li> <li>• Replacement of hot water system at the Works &amp; Utilities Office</li> </ul>
	Budgeted for Summerland Aquatic & Fitness Centre hazardous materials and air quality
	Researching options for purchasing a new pool cover or implementing a liquid pool cover
	Researching electric vs. gas Zambonis for replacement due

<b>Building and Lighting</b>	
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	
<b>Q 22 Is your local government aware of the <a href="#">BC Energy Step Code</a>?</b>	Yes/No
<b>Q 23 Is your local government implementing the <a href="#">BC Energy Step Code</a>?</b>	Yes/No

## 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.

<b>Q 24 + Q 25 Community-Wide Energy Generation Actions Taken in 2018 + Additional Actions</b>	
	Updated Zoning and Fees & Charges bylaws to clarify process and rules, and to reduce costs, for residents interested in installing renewable energy devices on their property
<b>Q 26 Community-Wide Energy Generation Actions Proposed for 2019</b>	
	Re-launch net metering program, including hosting workshop for community to learn about solar energy options

<b>Q 27 + Q 28 Corporate Energy Generation Actions Taken in 2018 + Additional Actions</b>	
	Solar panels installed on Arts and Cultural Centre (17.25 kW)
	Continue investigating utility-owned solar array with battery energy storage
<b>Q 29 Corporate Energy Generation Actions Proposed for 2019</b>	
	Complete installation of solar panels on Municipal Hall (5.44 kW)
	Begin development of utility-owned solar array with battery energy storage

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

## 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.

<b>Q 34 + Q 36 Community-Wide Greenspace Actions Taken in 2018 + Additional Actions (Q 35 below Q 41)</b>	
	Earth Day plantings at Adam's Bird Sanctuary (year 2 of 2)

	2018-2019 Giant’s Head Mountain Trails Redevelopment Project underway – phases 1 and 2
<b>Q 37 Community-Wide Greenspace Actions Proposed for 2019</b>	
	Update of terms of reference for technical reports to support best practices in responding to OCP Policies.
	Cottonwood tree plantings and monitoring at Woodbridge Park
	Earth Day plantings by waste water treatment plant

<b>Q 38 + Q 39 Corporate Greenspace Actions Taken in 2018 + Additional Actions</b>	
	Design and construction of Giants Head Mountain Trails improvements to enhance the trail network and decommission some existing trails to limit environmental impact and erosion
	Replanted landscaping around Municipal Hall with local, drought-tolerant plants
<b>Q 40 Corporate Greenspace Actions Proposed for 2019</b>	
	Indigenous dryland plantings at the Cultural Hub green space
	Add interpretive signage to low impact landscaping areas as a teaching tool for the public
	Plant additional trees throughout community
	Stormwater management – investigate permeable surfaces
	Complete construction of Giants Head Mountain Trails Master improvements to enhance the trail network and decommission some existing trails to limit environmental impact and erosion

<b>Greenspace</b>	
<b>Q 41 Does your local government have urban forest policies, plans or programs?</b>	<b>Yes/No</b>
<b>Q 35. Does your local government have policies, plans or programs to support local food production?</b>	<b>Yes/No</b>

## 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.

<b>Q 42 + Q 43 Community-Wide Solid Waste Actions Taken in 2018 + Additional Actions</b>	
	Continued implementing action items from PPP Contamination Operation Plan to reduce the amount of contamination occurring in curbside recycling
	Hosted full slate of Earth Week and Waste Reduction Week activities
	Hired Recycling Ambassadors for a 4-month term to promote waste reduction and recycling
	Hired Green Ambassadors for a 4-month term to promote waste reduction and recycling (continued 2-months into 2019)
	Implemented Other Flexible Plastic Packaging recycling program

	Completed transition of curbside collection to automated collection for curbside solid waste, yard waste and recycling via carts, eliminating blue bags from waste stream and reducing collection vehicle idling times
	Taught school education programs on waste reduction, recycling, and composting
	Hosted community education events on waste reduction, recycling and composting
	Updated Solid Waste Webpages to improve access to waste reduction information, recycling and compost
	Continued working on waste reduction, recycling and compost promotion and education programs
	Promotion of utility billing customers to sign-up for e-billing
	Implemented the Recollect widget
	Amended Solid Waste Management Regulation Bylaw and Fees and Charges Bylaw with increase encouragement of diversion
<b>Q 44 Community-Wide Solid Waste Actions Proposed for 2019</b>	
	Create and implement Multi-family recycling education program to reduce contamination, including removal of blue bags from recycling
	Continue working on waste reduction, recycling and compost promotion and education programs
	Continue improving the Solid Waste web pages and promotion of the Recollect app
	Expand number of pop-up recycling depots in community to assist with recycling of depot-only items
	Continue to promote sign-up for utility e-billing
	Completed the design and construction of landfill liner expansion
	Design the additional scale & recycling depot/entrance upgrades to reduce wait times (idling) and make recycling easier

<b>Q 45 + Q 46 Corporate Solid Waste Actions Taken in 2018 + Additional Actions</b>	
	Updated paper and bottle recycling in recreation facilities
	Contracted for 1-year a Solid Waste and Recycling Operations Manager
	Initiated Organics Processing Facility Project
	Entered into a 5-year agreement with Recycle BC
	Two landfill staff completed their Certified Manager of Composting Programs
<b>Q 47 Corporate Solid Waste Actions Proposed for 2019</b>	
	Make the Solid Waste and Recycling Operations Manager position permanent
	Join the MARR stewardship program
	Review the Landfill's current recycling and diversion programs for beneficial changes and additional opportunities
	Create and implement a Leachate Management Plan
	Review the ground water monitoring program and the septage permit and implement changes as required
	Design and commence construction on Organics Processing Facility – including an educational program (multi-year project)
	Construct the additional scale & recycling depot/entrance upgrades
	Review and update landfill design, operations and closure plan-including operational improvements and improved diversion



	Two landfill staff to take their Landfill Operations Basics Course
	Make improvements to the oil collection facility at the landfill
	Obtain employee authorization for electronic distribution of T4s

Solid Waste	
Q 48 Does your local government have construction and demolition waste reduction policies, plans or programs?	Yes/No
Q 49 Does your local government have organics reduction/diversion policies, plans or programs?	Yes/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	
	Hired Go By Bike Week Coordinator to assist with implementation of event
	Began the development of 3 master plans: Cycling Network Master Plan, Trails Master Plan, Sidewalks Master Plan.
	Promotion of active transportation to community
Q 52 Community-Wide Transportation Actions Proposed for 2019	
	Increase ridership of transit by youth through Rec department/transit pass combo
	Install Level 3 EV charging stations and add Level 2 stations to existing network
	Complete Cycling Network Master Plan, Trails Master Plan, and Sidewalks Master Plan
	Update the Transportation Master Plan

Q 53 + Q 54 Corporate Transportation Actions Taken in 2018 + Additional Actions	
	The fire hall's new ladder truck has been equipped with a Selective Catalytic Reduction (SCR) ammonia/urea injection system. An aqueous urea solution is injected in the exhaust air stream, where it evaporates into ammonia. Mixers are utilized after the injection to insure an even blend. Once the exhaust gas and ammonia mixture hits the SCR catalyst surface, a reduction reaction occurs, breaking down the NOx (NO or NO2) and NH3 into N2 and H2O
	Promoted Go By Bike Week to staff via a challenge
Q 55 Corporate Transportation - Actions Proposed for 2019	
	Green Fleet Action Plan being completed
	Replace old vehicles and equipment with more efficient models
	Provide additional cycling infrastructure for staff (e.g., bike lockers)
	Continue to promote active transportation to staff

Transportation	
<b>Q 56 Does your local government have policies, plans or programs to support:</b> <ul style="list-style-type: none"> <li>• Walking</li> <li>• Cycling</li> <li>• Transit Use</li> <li>• Electric Vehicle Use</li> <li>• Other (please specify): <b>trails master plan; sidewalk master plan</b></li> </ul>	<b>Yes/No</b> <b>Yes/No</b> <b>Yes/No</b> <b>Yes/No</b> <b>Yes/No</b>
<b>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)?</b>	<b>Yes/No</b>
<b>Q 58 Does your local government integrate its transportation and land use planning?</b>	<b>Yes/No</b>

## 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	
	Completed the WWTP Upgrades which includes the addition of grit removal and installation of new filters
	Continued with the design for the Trout Creek Flume and Water Intake Structure
	Completed the installation of new WTP raw water isolation valves
	Promotion of Make Water Work Program
Q 61 Community-Wide Water and Wastewater Actions Proposed for 2019	
	Commence construction on the Trout Creek Flume and Water Intake Structure, if funding application successful
	Complete the Water Master Plan update
	Promotion of Make Water Work Program
Q 62 + Q 63 Corporate Water and Wastewater Actions Taken in 2018 + Additional Actions	
	Complete the design of the Isintok Dam Outlet Pipe Replacement
Q 64 Corporate Water and Wastewater Actions Proposed for 2019	
	Complete a WWTP Facility Plan

Water Conservation	
<b>Q 65 Does your local government have water conservation policies, plans or programs?</b>	<b>Yes/No</b>

## 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.

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

<b>Q 68 Climate Change Adaptation Actions Taken in 2018</b>	
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.	
	Joined SFU's Integrated Climate Action for BC Communities Program
	Participated in Climate & Asset Management Network
<b>Q 69 Climate Change Adaptation Actions Proposed for 2019</b>	
	Approve an Asset Management Policy that acknowledges climate change impacts with respect to sustainable service delivery, how they might impact service levels and commits to incorporating climate adaptation methods and tools
	Complete the Subdivision & Development Servicing Bylaw update and amendments
	Complete updates to Community and Corporate Climate Action Plans
	Repairs of areas affected by the 2017 floods such as dock repairs at Rotary Beach; asphalt pathway repairs at Peach Orchard Beach, Rotary Beach and Powell Beach
	Finalize the Eneas Creek Assessment which will outline repair and mitigation project along the full length (approx. 15km) of Eneas Creek, from Garnet Dam to Okanagan Lake
	Design drainage improvements from Morrow Avenue to Prairie Creek
<b>Q 70 For more information please contact</b>	
	Tami Rothery, Sustainability / Alternative Energy Coordinator <a href="mailto:climate.action@summerland.ca">climate.action@summerland.ca</a>

<b>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?</b>	
<ul style="list-style-type: none"> <li><a href="#">Indicators of Climate Change for British Columbia</a></li> <li><a href="#">Plan2Adapt</a></li> <li><a href="#">Climate Projections for Metro Vancouver</a></li> <li><a href="#">Climate Projections for the Capital Region</a></li> <li><a href="#">Climate Projections for the Cowichan Valley Regional District</a></li> <li><a href="#">Province of BC's BC Adapts Video Series</a></li> <li><a href="#">Preparing for Climate Change: Implementation Guide for Local Governments</a></li> <li><a href="#">Public Infrastructure and Engineering Vulnerability Committee's (PIEVC)</a></li> <li><a href="#">Sea Level Rise Adaptation Primer</a></li> <li><a href="#">BC Regional Adaptation Collaborative Webinars</a></li> <li><a href="#">Retooling for Climate Change</a></li> <li><a href="#">Water Balance Model</a></li> <li><a href="#">Water Conservation Calculator</a></li> </ul> <p>Funding:</p> <ul style="list-style-type: none"> <li><a href="#">National Disaster Mitigation Program (NDMP)</a></li> <li><a href="#">Community Emergency Preparedness Fund (CEPF)</a></li> <li><a href="#">Municipalities for Climate Innovation Program (MCIP)</a></li> <li><a href="#">Climate Adaptation Partner Grants (FCM)</a></li> <li><a href="#">Infrastructure Planning Grants (MAH)</a></li> <li><a href="#">Federal Gas Tax Fund</a></li> </ul>	<p>Haven't Used /Useful/Not Useful</p> <p>Haven't Used /Useful/Not Useful</p> <p>Haven't Used /Useful/Not Useful</p> <p>Haven't Used /Useful/Not Useful</p> <p>Haven't Used /Useful/Not Useful</p> <p>Haven't Used /Useful/Not Useful</p> <p>Haven't Used /Useful/Not Useful</p> <p>Haven't Used /Useful/Not Useful</p> <p>Haven't Used /Useful/Not Useful</p> <p>Haven't Used /Useful/Not Useful</p> <p>Haven't Used /Useful/Not Useful</p> <p>Haven't Used /Useful/Not Useful</p> <p>Haven't Used /Useful/Not Useful</p> <p>Haven't Used /Useful/Not Useful</p> <p>Haven't Used /Useful/Not Useful</p> <p>Haven't Used /Useful/Not Useful</p> <p>Haven't Used /Useful/Not Useful</p> <p>Haven't Used /Useful/Not Useful</p> <p>Haven't Used /Useful/Not Useful</p> <p>Haven't Used /Useful/Not Useful</p> <p>Haven't Used /Useful/Not Useful</p> <p>Haven't Used /Useful/Not Useful</p>
<b>Other (please specify)</b>	

## 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.

<b>Q 72 Community-Wide Other Actions Taken in 2018</b>	
	Support Earth Week Celebrations and other community-driven events related to sustainability and alternative energy
<b>Q 73 Corporate Other Actions Taken in 2018</b>	
	Offered webinar learning opportunities to staff on planning and engineering considerations related to climate adaptation and mitigation

Other	
<b>Q 74</b> Are you familiar with the <a href="#">Community Lifecycle Infrastructure Costing Tool (CLIC)</a> ?	<b>Yes/No</b>
<b>Q 75</b> Is your local government using the <a href="#">CLIC</a> tool?	<b>Yes/No</b>

## 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](#).

<b>Q 76 Community-Wide Innovation Action</b>
<b>Q 77 Corporate Innovation Action</b>
<b>Q 78 For more information on actions described above contact</b>

### 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

<b>Q 79 Mitigation Programs, Partnerships and Funding</b>
FCM’s Partners for Climate Protection Program FCM’s Municipalities for Climate Innovation Program BC Rural Dividend Program Gas Tax Fund’s Strategic Priorities Fund Solar Now / North Growth Foundation

FortisBC

## Adaptation

### Q 80 Adaptation Programs, Partnerships and Funding

SFU's Integrated Climate Action for BC Communities Program  
FCM's Climate & Asset Management Network

## 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/No
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)	966
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)	67
<b>Q 84 TOTAL A: CORPORATE GHG EMISSIONS FOR 2018 (Direct GHGs + Contracted GHGs)</b>	<b>1033 tCO<sub>2</sub>e</b>

## 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 (tCO<sub>2</sub>e)) 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 (tCO <sub>2</sub> e))	
Q 86 Solar Thermal (in tonnes of carbon dioxide equivalent (tCO <sub>2</sub> e))	
Q 87 Household Organic Waste Composting (in tonnes of carbon dioxide equivalent (tCO <sub>2</sub> e))	
Q 88 Low Emission Vehicles (in tonnes of carbon dioxide equivalent (tCO <sub>2</sub> e))	
Q 89 Avoided Forest Conversion (in tonnes of carbon dioxide equivalent (tCO <sub>2</sub> e))	
<b>Q 90 TOTAL B: REDUCTIONS FROM ALL OPTION 1 PROJECTS FOR 2018</b>	<b>tCO<sub>2</sub>e</b>

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

Option 2 Project Name	REDUCTIONS
Option 2 GHGs Reduced (tCO <sub>2</sub> e)	
Option 2 Project Name	
Option 2 GHGs Reduced (tCO <sub>2</sub> e)	



Option 2 Project Name	
Option 2 GHGs Reduced (tCO <sub>2</sub> e)	
<b>Q 92 TOTAL C: REDUCTIONS FROM ALL OPTION 2 PROJECTS FOR 2018</b>	<b>tCO<sub>2</sub>e</b>

### 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 (tCO<sub>2</sub>e)) 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 (tCO <sub>2</sub> e)	
Offset Provider Name	
Offsets (tCO <sub>2</sub> e)	
<b>Q 94 TOTAL D: OFFSETS PURCHASED FOR 2018</b>	<b>tCO<sub>2</sub>e</b>

Q 95 TOTAL REDUCTIONS AND OFFSETS FOR 2018 (Total B+C+D) = \_\_\_\_\_ 0 \_\_\_\_\_ tCO<sub>2</sub>e

### 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)) = 1033 tCO<sub>2</sub>e

**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 tCO<sub>2</sub>e)**

SOURCE OF CARRY OVER EMISSION REDUCTIONS (and year earned)	REDUCTIONS
<b>Q 98 BALANCE OF REDUCTIONS ELIGIBLE FOR CARRY OVER TO NEXT YEAR</b>	<b>0 tCO<sub>2</sub>e</b>

Carbon Neutral Reporting	
<b>Q 99 Does your local government set aside funds in a climate reserve fund or similar?</b>	<b>Yes/No</b>

## 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	X
<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:**

<b>PROJECT NAME:</b>
<b>Electrification of Parks equipment</b> <b>Establishment of District’s Green Revolving Fund</b> <b>Summerland’s Integrated Solar Project</b> <b>Solar Now Partnership Project</b>