

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

**Local Government:** 

Report Submitted by:

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The Regional district of Okanagan-Similkameen 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

Adopted new Okanagan Lake West / West Bench Electoral Area "F" Official Community Plan which provided new objectives and policies for Greenhouse Gas Emission reductions and Climate change.

Consideration of the implementation of Lakeshore zoning to Okanagan valley lakes to protect against the impacts of large-scale docks and impacts to the lake foreshore. Zoning amendments in this regard are expected in 2019.

#### Q 8 Community-Wide Broad Planning Actions Proposed for 2019

Climate Projections study for the Okanagan region will help us plan for a future with greater climate impacts and make changes to our land use processes and regulation to help facilitate better management of the land in the face of greater risks of floods, fires, and mudslides.

Preparation of the review of the South Okanagan Regional Growth Strategy. Recommend review of growth areas to focus development on major centres and not encourage rural sprawl. This will help with Climate efforts to combat heavy motor vehicle usage.

Review of carriage homes and accessory dwellings to achieve housing affordability goals. This will also encourage infill development vs. greenfield development to address housing needs and reduce GHG emissions related to greenfield development.

Update of the parkland dedication policy to ensure that developers pay their fair share for the cash-in-lieu equivalent and that parkland is set out for new development effectively in the future. Having additional park spaces encourages more livable spaces for people and reduces commuting needs.

Review of current Environment Sensitive Development Permit process (adopted in 2017) to apply to all single family development and better streamline the review of then environmental attributes of a property prior to development occurring. This permitting process is unique to the Regional District of Okanagan-Similkameen.

Initiation of Electoral Area "A" Official Community Plan. To review all long term planning goals of Electoral Area "A" (Osoyoos Rural). Review and modernize the policies related to GHG reduction and Climate change adaptation.

Completion of a Geotechnical Hazard Study for the Greater West Bench area. This is to update the previous hazard study completed in the early 1990's (Klohn Leonoff). Goal is to utilize latest geotechnical mapping technology (i.e. LiDAR) to better map the hazard areas, and to extend the study area from that reviewed before. Area prone to slides, slumps and mudslides due to silt bluffs, and study will inform future planning of the area.



Q 9	Q 9 + Q 10 Corporate Broad Planning Actions Taken in 2018 + Additional Actions		
	No report by manager on this question		
Q 1	1 Corporate Broad Planning Actions Proposed for 2019		
	Update of the Works and Servicing Bylaw. This will modernize the RDOS standards for		
	development of water and sewer systems, stormwater management, sidewalk construction, and		
	street lighting to latest standards (including LED lighting, engineering for greater storm standards		
	– 1/200 year).		
	Climate Projections will tie into corporate goals for asset management planning to ensure that		
	infrastructure is developed to be resilient and withstand impacts of a changing climate.		
	Continue to participate in Asset Management Planning as it relates to Development		
	Services/Buidling		
	Continue to consider climate reduction targets in all areas of the Department		

Broad Planning		
Q 12 What is (are) your current GHG reduction 10 % of 2009 levels by 2020 target(s)?		
Q 13 Are you familiar with your local government's community energy and emissions inventory (e.g. <u>CEEI</u> or another inventory)?		Yes
Q 14 What plans, policies or guid	delines govern the implementation of climate mitigation	
in your community?		
<ul> <li>Community Energy and E</li> </ul>	Emissions Plan	Yes
<ul> <li>Integrated Community S</li> </ul>	ustainability Plan	No
Community- Wide Clima	te Action Plan	Yes
Official Community Plan		Yes
Regional Growth Strateg	V	Yes
Do not have a plan	•	No
Other:		
Q 15 Does your local governmen	t 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.

Q1	Q 16 + Q 17 Community-Wide Building and Lighting Actions Taken in 2018 + Additional Actions		
Q1	8 Community-Wide Building and Lighting Actions Proposed for 2019		
	Led Lights installed on the West Bench Pedestrian Corridor and Naramata Pickle Ball courts.		
Q 1	9 + Q 20 Corporate Building and Lighting Actions Taken in 2018 + Additional Actions		
Q 2	1 Corporate Building and Lighting Actions Proposed for 2019		
	Replace Okanagan Falls Zen Center Light to LED.		

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 Codea		
part of the BC Building Codesupports that effort		
Q 22 Is your local government aware of the BC Energy Step Code? Yes		
Q 23 Is your local government implementing the <u>BC Energy Step Code</u> ?		



#### **P5 - Not Applicable to RDOS**

#### P5 2018 ENERGY GENERATION ACTIONS

# **Energy Generation Actions**

blank

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

Q 2	6 Community-Wide Energy Generation Actions Proposed for 2019
	blank
Q 2	7 + Q 28 Corporate Energy Generation Actions Taken in 2018 + Additional Actions
	blank
Q 2	9 Corporate Energy Generation Actions Proposed for 2019
	blank



Energy Generation	
Q 30 Is your local government developing, or constructing an energy plant	
<ul> <li>none of the above</li> </ul>	
Q 31 Is your local government operating an energy plant	
<ul> <li>none of the above</li> </ul>	
Q 32 Is your local government connected to a district energy system that is operated by	No
another energy provider?	
Q 33 Are you familiar with the 2018 <u>List of Funding Opportunities for Clean Energy Projects</u>	Yes
Led by First Nations and Local Governments?	

# **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.

Q3	Q 34 + Q 36 Community-Wide Greenspace Actions Taken in 2018 + Additional Actions (Q 35 below Q		
41)			
	Heritage Hills Park Development. Conversion of a brownfield site to a community park (~19,000		
	m2).		
Q3	Q 37 Community-Wide Greenspace Actions Proposed for 2019		
Ε	Wharf Park (Naramata) Expansion. We have acquired brownfield lands (3,400 m2) adjacent to		
	the existing park, and are in the process of acquiring additional adjacent brownfield land (1,100		
	m2). We are planning to convert these brownfields lands to parkland during 2019 or 2020.		
С	Pioneer Park (Kaleden). Addition of park greenspace (~400m2) by developing more		
	organized/efficient parking areas. The work is planned for 2019.		
С	Pioneer Park (Kaleden) Expansion. We are in the process of acquiring brownfield lands adjacent		
	to the existing park. These lands will be converted to parkland in the future.		
Е	Acquisition of 3 ha of private land in the Naramata Creek Canyon for trail and conservation		

Q:	Q 38 + Q 39 Corporate Greenspace Actions Taken in 2018 + Additional Actions		
	Maintaining low water/no water/ rain gardens for use as teaching tools and workshop demos		
Q	Q 40 Corporate Greenspace Actions Proposed for 2019		
	Remove 3 invasive Russian Olive trees from corporate parking lot		



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

# **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 4	Q 42 + Q 43 Community-Wide Solid Waste Actions Taken in 2018 + Additional Actions		
	Continue implementation of the Solid Waste Management Plan through maximizing diversion		
	through composting and recycling, including reuse and recycling of construction and demolition		
	waste, organic waste diversion and outreach opportunities.		
	Hosted a compost bin sale for residents in March; also held free composting workshops for		
	residents in March and April.		
	Provincial approval of Apex Mountain Waste Transfer Station.		
	Conducted public consultation with businesses and multifamily units to identify barriers to		
	recycling.		
	Updating handling criteria for demolition waste to ensure safety and increase diversion.		
	Sent out 2018 Reuse, Recycle & Safe Disposal Guide		
Q 4	14 Community-Wide Solid Waste Actions Proposed for 2019		
	Development of residential food waste compost site at the Oliver Landfill		
	Continued review of options for organics facilities siting		
	Work with Province on potential bio-cover project to use compost to mitigate methane emissions		
	Construction of Apex Mountain Waste Transfer Station		
	Member of Love Food, Hate Waste campaign		
	Online app for where and how to recycle and reuse		

Q	Q 45 + Q 46 Corporate Solid Waste Actions Taken in 2018 + Additional Actions	
	Continue recycling efforts in the Administration Building including lunchroom waste segregation	
	for staff and paper recycling for corporate operations	
	Public battery drop off station at office	
	Educational brochure sent out on Safe Disposal, Reuse and Recycle	
Q	47 Corporate Solid Waste Actions Proposed for 2019	
	Continue recycling efforts in the Administration Building including lunchroom waste segregation	
	for staff and paper recycling for corporate operations.	
	Continue reduction of corporate waste through implementation of Electronic Filing System and	
	defaulting the two largest printers to double side printing.	



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

# 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 5	Q 50 + Q 51 Community-Wide Transportation Actions Taken in 2018 + Additional Actions		
	Developed and procured funding for a regional transportation bus service connecting Penticton		
	to Kelowna which will service a high proportion of the population within the region.		
	Began the development of a Transportation Marketing Plan to guide future marketing efforts		
	related to transportation within the region.		
	Continued implementation of the 2015 25-year Okanagan Transit Future Plan in partnership with		
	BC Transit, which includes targeted goals for regional and inter-regional transit, identifies		
	potential expansion areas, strengthens the link between transportation and land use in order to		
	support sustainable growth, including reduced community GHG emissions.		
Q 5	2 Community-Wide Transportation Actions Proposed for 2019		
	Continue to evaluate the efficiency of transportation services, scheduling and routing under		
	RDOS jurisdiction.		
	Increasing importance placed on creating a multi-modal transportation network that enhances		
	the ability of the community to pursue active transportation methods such as walking and		
	cycling.		
	Implementation of regional transportation bus service connecting Penticton to Kelowna.		
	Support of the Bike to Work & School Week initiative within the community through the		
	provision of resources and setting up a booth to promote active transportation and		
	transportation services offered by the Regional District of Okanagan-Similkameen.		
	Transferred bus service operators for improved service delivery in the South Okanagan – Osoyoos		
	routes.		
	Implemented a local "Explore BC by Bus" campaign in collaboration with BC Transit.		
	The expansion of bus services into new areas such as West Bench and the improvement of		
	existing routes to offer more service hours of operations for transit services.		

# Q 53 + Q 54 Corporate Transportation Actions Taken in 2018 + Additional Actions

Wellness committee has a point system for transportation initiatives such as carpooling and using active transportation as a method of commuting that can be redeemed for various rewards.



	Replaced some of the less fuel efficient vehicles in the corporate fleet with newer models.	
Q 55 Corporate Transportation - Actions Proposed for 2019		
	Wellness committee has been potentially discussing increasing the number of points attributed	
	to transportation initiatives.	
	Examine our transportation performance guidelines in order to increase efficiency amongst our	
	transportation services.	
	Continue to improve transportation data collection methods to better inform Regional District	
	planners on how to improve transportation services.	
	Continue to evaluate vehicle fleet, and replace with more fuel - efficient vehicles as needed.	

Transportation	
Q 56 Does your local government have policies, plans or programs to support:	
Walking	Yes
• Cycling	Yes
Transit Use	Yes
Electric Vehicle Use	No
Other (please specify)	No
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)?	
Q 58 Does your local government integrate its transportation and land use planning?	

# **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		
Start to update and prepare draft new water system acquisition policy		
Continued the West Bench Homeowner Leak detection Program		
Pursue tenders and costs for installation of a sludge dewatering system at the Okanagan Falls		
Waste Water treatment Plant – grant applications/budget allocations		
Replaced and upgraded pumps in the Sun Valley Water System; Gas Tax Funds		
Completed upgrades to water systems communications systems - 2 systems with new (SCADA)		



Continued Water Conservation outreach activities
Installed radio signal devices at OK Falls WWTP lift station 1 and 2 reducing operator trips to check
the station from 7 a week to 3 (saving 28.5 km/wk x 52 = 1482 kms)

Service Area	Description of upgrades	Reason for savings	Potential Energy savings
Willowbrook	Replacement of existing well pump motor controls with a soft starter	Increased pumping efficiency	2,000 -5,000kWh/annum
Sun Valley	Replacement of pumps and pump controls	Increased pumping efficiency	20500 kWh/annum

#### Q 61 Community-Wide Water and Wastewater Actions Proposed for 2019

Add a back-up generator to the Olalla Water System (reduce operator vehicle GHG's in response to outages; ability to check remotely via phone app)

Implement new region-wide Water sprinkling (Use) Regulations – moving to Stage 1 restrictions year-round and altering days and times to harmonize all 9 systems as much as possible. This will reduce staff time for water violations, campaigns, reduce the need for annual mail outs to start Stage 1 in April, and make more efficient use of pumping infrastructure and water demand.

Construct and complete sewer link extension from Kaleden to Okanagan Falls WWTP

Q6	Q 62 + Q 63 Corporate Water and Wastewater Actions Taken in 2018 + Additional Actions		
	New more fuel efficient vehicle provided to Okanagan Falls WWTP – retiring older larger engine		
	truck		
Q6	Q 64 Corporate Water and Wastewater Actions Proposed for 2019		

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.

- Changes to temperature and precipitation causing seasonal drought/wildfire
- Changing temperatures influencing ecosystem shifts
- Extreme weather events contributing to overland flooding

Other (please specify):

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)	No
Public Education and Awareness	Yes
Research	No
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.

Continuing to participate and lead in Provincial Agricultural Climate Change Adaptation programs including: development of Agricultural Drought Communications strategy targeting producers with a water conservation component -pilot; participate in Washington State University, Environment and Agriculture Canada initiative to integrate real time weather data to optimize select agricultural inputs (water, chemical, fertilizers) for Climate Adaptation related pest control;



and created and promoted use of the newly developed database app for prevention and mitigation of other invasive species that impact agricultural producers at <a href="www.oiso.ca">www.oiso.ca</a> Reports available at:

https://www.bcagclimateaction.ca/regional/okanagan-thompson/

These projects are now in Phase 3

Participated in valley-wide flood and wildfire post mortems and planning sessions with Province, OBWB, and EMBC

Participated in a valley-wide project: LIDAR mapping of the bench lands surrounding Lake Okanagan, Skaha, Vaseux, and Osoyoos to provide support and direction for flood mitigation and planning/development. This project includes new floodplain mapping for these lakes and new floodplain regulations to include in Okanagan Valley zoning bylaws.

# Q 69 Climate Change Adaptation Actions Proposed for 2019

Complete a valley-wide adoption of new Flood Construction Levels (wording and integration where possible) working collaboratively with all other Okanagan Local Governments

Implement newly adopted RDOS Region-wide Water Regulations – which harmonizes restrictions, and makes Stage 1 the 'new normal' year round – saving water, time, outreach needs when these become mainstream.

RDOS to strike new Climate Action Team called GEIC = Green Environment Initiatives Committee to address both Corporate and Corporate/Community Green GHG saving initiatives

Complete renovations on a new specific office space for Emergency Management – to reduce impact on main office during activations. The new space also allows for much needed expansion of office space to accommodate new and relocating staff members

#### Q 70 For more information please contact

Zoe Kirk - 250-490-4110



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?

whether they were useful in advancing your work in climate change adaptation:	
Indicators of Climate Change for British Columbia	Useful
<u>Plan2Adapt</u>	Useful
Climate Projections for Metro Vancouver	Not Useful
Climate Projections for the Capital Region	Not Useful
Climate Projections for the Cowichan Valley Regional District	Not Useful
Province of BC's BC Adapts Video Series	Haven't Used
Preparing for Climate Change: Implementation Guide for Local Governments	Useful
Public Infrastructure and Engineering Vulnerability Committee's (PIEVC)	Haven't Used /Useful/Not Useful
Sea Level Rise Adaptation Primer	Not Useful
BC Regional Adaptation Collaborative Webinars	Useful
Retooling for Climate Change	Useful
Water Balance Model	Useful
Water Conservation Calculator	Useful
Funding:	
National Disaster Mitigation Program (NDMP)	Useful
Community Emergency Preparedness Fund (CEPF)	Useful
Municipalities for Climate Innovation Program (MCIP)	Not Useful
Climate Adaptation Partner Grants (FCM)	Useful
Infrastructure Planning Grants (MAH)	Useful
<u>Federal Gas Tax Fund</u>	Useful
Other (please specify) Province of BC Climate Action Plan 2016 – 2020	
RDOS Drought/Flood Risk Management and Mitigation Plan – Gap Analysis	
OBWB Drought Trigger Guidelines for the Okanagan Mainstem Lakes	
Okanagan Drought Response Strategy, Provincial Report on Emergency Response	
2018, BC's Thompson/Okanagan Drought response Plan 2017-2020, Water Demand	
Model, OBWB Water Sustainability Plan (being revised)	

# **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.

C	Q 72 Community-Wide Other Actions Taken in 2018	
		The Mosquito Control Program continues to use Aspen Fuel, which burns cleaner than
		conventional mixes, thereby reducing GHG.



	Began the process of writing and compiling a guidebook for newcomers and existing residents on climate variability, and futureproofing against extreme events, appropriate landscaping to energy efficiency in the home, with strong indigenous component being supplied by Okanagan Nation Alliance; Grants provided by Real Estate Foundation of BC, RBC Blue Water Grant. Published April 2019		
Q7	Q 73 Corporate Other Actions Taken in 2018		
	Provided better linkages to residents to prepare for extreme events: new web-site, videos, social		
	media, and rolling videos in main office lobby		

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

#### 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 <u>B.C. Climate Action Toolkit</u> 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 <u>CEA's Climate and Energy Action Awards</u>, <u>FCM Sustainable Communities Awards</u> or to <u>FCM's National Measures Report</u>.

#### Q 76 Community-Wide Innovation Action

Continuing to phase 3: The BC Climate Adaptation for Agriculture projects undertaken in the Okanagan will assist producers in reducing chemical and water application on crops in response to weather variations through the utilization of weather data, an approach developed in the US portion of the Okanogan. Linking data from numerous weather stations over time has allowed for short and long-range forecasts to inform appropriate water, chemical and fossil fuel inputs for agricultural production. Chemical application has been reduced by up to 30%, translating into to reductions in



fossil fuel through reduced towing of spraying equipment in orchards and fields, creating a win-win situation for producers, consumers and the environment.

This is paired with the drought outreach for agriculture and the Agricultural focused pilot - to increase communications to producers in times of extreme weather or wildfire.

The second year of: the Conservation Trust Funding collected through an annual tax requisition, providing a consistent financial base that can be leveraged for additional funding. The program provides funding for repair, conservation and enhancement of the biodiversity of the Okanagan through a wide range of initiatives including wetland and riparian restoration (carbon sinks, water storage and filtering), to rare and endangered habitat protection. Well over a million dollars in leveraged funding has been obtained from ~\$600,000.00 of seed funding through the SOCTF

#### Q 77 Corporate Innovation Action

#### Q 78 For more information on actions described above contact

Zoe Kirk: <a href="mailto:zkirk@rdos.bc.ca">zkirk@rdos.bc.ca</a> 250-490-4110

#### **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

Okanagan Basin Water Board, Fortis BC, Okanagan Similkameen Invasive Species Society, RBC Blue Water Project Grant, South Okanagan Similkameen Conservation Program, UBCO, BC Transit, Bike BC, Building Canada, BC Ministry of Agriculture, Washington State University, Agriculture and Agri-foods Canada, Environment Canada, Okanagan-Kootenay Sterile Insect Release Program, BC Climate Action Secretariat, Ministry of Forestry, Lands and Natural Resources Operations Rural Dividend Funding Program, Canada 150 Community Infrastructure Program, RDOS Member Municipalities, Penticton and Area Cycling Association, Okanagan Nation Alliance and Eno'wkin Center, UBCM, Okanagan Xeriscape Association, Regional District of Nanaimo, South Okanagan Real Estate Board, Okanagan and Similkameen Conservation Alliance, Real estate Foundation of BC, North Okanagan Regional District, Central Okanagan regional District, NDMP, EMBC — EAF, Irrigation Industry of BC,

#### Adaptation

#### Q 80 Adaptation Programs, Partnerships and Funding



Emergency Operations has been active about 5 mos per year for the last few years. They are actively addressing property owners to insure they prepare for extreme events.

Same as above – they inter-relate and cross over in many respects

#### **2018 CARBON NEUTRAL REPORTING**

Local governments are required to report on their progress in achieving their carbon neutral goal under the <u>B.C. Climate Action Charter</u>. 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 <u>B.C. Climate Action Toolkit website</u>, especially the <u>Workbook</u> and <u>Becoming Carbon</u> <u>Neutral: A Guide for Local Governments in British Columbia.</u>

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	352
by your local government (in tonnes of carbon dioxide equivalent)	
Q 83 If your local government measured 2018 corporate GHG emissions, please report the number of corporate GHG emissions from contracted services (in	488
tonnes of carbon dioxide equivalent)	
Q 84 TOTAL A: CORPORATE GHG EMISSIONS FOR 2018 (Direct GHGs +	840 tCO2e
Contracted GHGs)	

# **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))	
Q 90 TOTAL B: REDUCTIONS FROM ALL OPTION 1 PROJECTS FOR 2018	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)	
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)	
Offset Provider Name	
Offsets (tCO2e)	
Q 94 TOTAL D: OFFSETS PURCHASED FOR 2018	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 offset table 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)) = \_\_\_\_\_840\_\_\_\_\_ 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



	0
Q 98 BALANCE OF REDUCTIONS ELIGIBLE FOR CARRY OVER TO NEXT YEAR	tCO2e

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

We attribute the rebate into a Climate Action billing code account line to assist in funding CARIP related activities ZK

# 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:

Level 1 – Demonstrating Progress on Charter Commitments	Х
Level 2 – Measuring GHG Emissions	X
Level 3 – Accelerating Progress on Charter Commitments	
Level 4 - Achievement of Carbon Neutrality	
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:	