

Survey Template

For the *2017 CARIP Climate Action/Carbon Neutral Progress Survey*

Local governments are required to submit the *2017 CARIP Climate Action/Carbon Neutral Progress Survey* on or before June 1, 2018.

Use Template to Collect Information

In response to local government input, this Survey Template has been created to assist with collecting information for the *2017 CARIP Climate Action/Carbon Neutral Progress Survey*, and follows the same structure as the survey.

Responses entered into this 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 Template, simply add more lines to the tables to report more than five actions.

Use Template to Assist with Reporting

Local governments are also required to publicly report the information submitted in the *2017 CARIP Climate Action/Carbon Neutral Progress Survey*. There is no ability for survey respondents to generate a report of survey responses, in turn:

- A PDF copy of your survey responses will be sent to you once your completed survey has been submitted.
- Given that it is challenging to edit the PDF document, you are encouraged to use your populated version of this Template, or your own, to report your CARIP results publicly.
- You may also choose to create a report in another format that contains the information submitted in the *2017 CARIP Climate Action/Carbon Neutral Progress Survey*.

Further information on CARIP can be found on the [Ministry of Municipal Affairs and Housing website](#).

The Government of BC will not collect, use, or disclose personal information using SurveyMonkey®. Please be aware however that IP addresses are collected by SurveyMonkey® itself, and these IP addresses and other information collected will be stored on SurveyMonkey®'s servers located outside of Canada. Please do not provide any third-party information (i.e. refer to others) in your responses to the survey.

Climate Action Revenue Incentive (CARIP) Public Report for 2017

Local Government:
Regional District of Okanagan-Similkameen

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Date: June 1, 2018



The Regional District of Okanagan-Similkameen has completed the 2017 Climate Action Revenue Incentive Program (CARIP) Public Report as required by the Province of BC. The CARIP report summarizes actions taken in 2017 and proposed for 2018 to reduce corporate and community-wide energy consumption and greenhouse gas emissions (GHG) and reports on progress towards achieving carbon neutrality.

2017 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, centred) plays an especially important role in energy and GHG reduction.

Community-Wide Actions Taken in 2017	
	Adopted a revised Regional Growth Strategy for the South Okanagan.
	Administered the South Okanagan Conservation Fund and appointed members to its Technical Advisory Committee.
	Continued revision of the Okanagan Lake West / West Bench Official Community Plan (OCP) for Electoral Area "F." The revision includes improved sustainability objectives and policies for Rural Growth Areas, Parks, and Natural Environment and Conservation as well as updated language to reflect the BC Climate Action Charter.
	Updated Electoral Area "G" Zoning Bylaw Update. Completed the Electoral Area "D" division initiative. Implemented the Gallagher Lake Area Structure Plan
	Continued Phase III of the Okanagan Falls Town Centre Revitalization Plan. This includes enhancing the pedestrian realm and the Town Centre. The overall vision is for Okanagan Falls to create a compact and pedestrian-friendly town centre.
	Developed Phase 3 of the Similkameen Valley Watershed Plan.
	Updated and refined the Environmentally Sensitive Development Permit (ESDP), by allowing an expedited process; under the update the RDOS may also designate lands as "Important Ecosystem Area," thus allowing the Regional District to flag an area without relying solely on a permit scheme.
	Update of Agricultural Zones and Regulations.
Community-Wide Actions Proposed for 2018	
	Continue implementing the Regional Biodiversity Strategy through the South Okanagan Conservation Fund.
	Refine and implement the Naramata Town Centre Zone & DP Update.
	Complete Official Community Plan for Electoral Area "F"
	Implement the recommendation of the Okanagan Falls Town Centre Plan.

Corporate Actions Taken in 2017	
	Implemented the 2017 Corporate Business Plan, which seeks to enhance the Regional District's vital role of building a sustainable community through developing a socially, economically, and environmentally sustainable region.
	Continued implementation of the RDOS Corporate Climate Action Plan through the review of energy efficiency measure initiatives.

Corporate Actions Proposed for 2018	
	As per the Provincial Asset Management Program, retaining a consultant to work on the next stages of the Program utilizing the grant recently obtained from the Strategic Priorities Fund – Gas Tax Program.
	Continue implementation of the Corporate Climate Action Plan, prioritizing that corporate energy emission data is valid and provides a credible baseline

Broad Planning		
What is (are) your current GHG reduction target(s)?	(Please provide details here) 10% of 2009 levels by 2020	
Are you familiar with your community’s community energy and emissions inventory (e.g. CEEI or another inventory)?		Yes
What plans, policies or guidelines govern the implementation of climate mitigation in your community?		
•	Community Energy and Emissions (CEE) Plan	Yes
•	Community- Wide Climate Action Plan	Yes
•	Integrated Community Sustainability Plan	No
•	Official Community Plan (OCP)	Yes
•	Regional Growth Strategy (RGS)	Yes
•	Do not have a plan	No
•	Other:	No
Does your local government have a corporate GHG reduction plan?		Yes

2017 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.

Community-Wide Actions Taken in 2017	
	Completed building upgrades to Hedley Community Centre, Hayes Creek and Eris Creek Volunteer Fire halls.
	Explored the feasibility of LED streetlight conversion in areas throughout the RDOS.
	Participant and presenter at the 2017 Building SustainABLE Communities 2017.

Community-Wide Actions Proposed for 2018	
	Research into additional LED street light opportunities with Fortis.
	Continue to implement energy efficient BC Building Code upgrades, including minimum performance ratings.

Corporate Actions Taken in 2017	
	Continued the implementation of the Facility Energy Audits from 2014; to date, more than 50% of the 275 Energy Efficiency Measures have been completed or are underway.

Corporate Actions Proposed for 2018	
	Conduct feasibility study of new windows, improved insulation, and new entrance & foyer doors on main entrance of administration building.
	Continue to satisfy Energy Efficiency Measures.

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	
Is your local government aware of the BC Energy Step Cost?	Yes
Is your local government implementing the BC Energy Step Code?	Yes

2017 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.

Community-Wide Actions Taken in 2017	
	Blank
Community-Wide Actions Proposed for 2018	

	Continue to seek opportunities to reduce power grid reliance in the 911 Fire Dispatch System by designing additional off-grid conversions.

Corporate Actions Taken in 2017	
	Blank
Corporate Actions Proposed for 2018	
	Blank

Energy Generation	
Is your local government developing, or constructing:	
<ul style="list-style-type: none"> • A district energy system • A renewable energy system 	No No
Is your local government operating:	
<ul style="list-style-type: none"> • A district energy system • A renewable energy system 	No No
Is your local government connected to a district energy system that is operated by another energy provider?	No
Are you aware of the Integrated Resource Recovery guidance page on the BC Climate Action Toolkit ?	Yes
Are you familiar with the 2017 “List of Funding Opportunities for Clean Energy Projects Led by First Nations and Local Governments?”	Yes

2017 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.

Community-Wide Actions Taken in 2017	
	Continue trail upgrades through improvements to the KVR trail between Oliver and Osoyoos by resurfacing 3 kilometres of trail.
	Design construction plans for Naramata and Vintage Views park plans.
	Acquire an additional acre of parkland in Naramata to connect components of Creek Park Trail and finalize a 30 acre donation in Coalmont.
	Hosted the Naramata Tree Replacement Project, in cooperation with the Government of Canada and TreeCanada.
	Develop and implement wetlands restoration component for Okanagan Falls Wetland Waste Water Treatment Plant including an educational component, implemented in collaboration with conservation partners.
	Public awareness campaign regarding risk of invasive species (Quagga and Zebra mussels).
	Hosted free presentation: Protecting our Natural Assets along the Water's Edge.
Community-Wide Actions Proposed for 2018	
	Finalize construction plans for the accessibility pathway in Manitou Park.
	Begin plans for the recently acquired lands in Coalmont to be transformed into a park.
	Continue hosting public awareness campaigns addressing invasive species and the protection of riparian areas.
	Produce a compendium for new home owners or those relocating to the South Okanagan in conjunction with South Okanagan Real estate Board. The compendium will prepare residents and newcomers on living in a semi-arid climate, how stewardship of the land and waterways will sustain the region and mitigate effects of flood and fire. Workshops to Real Estate professionals and residents will take place in the fall.

Corporate Actions Taken in 2017	
	Blank
Corporate Actions Proposed for 2018	
	Blank

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

2017 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.

Community-Wide Actions Taken in 2017	
	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.
	Completed feasibility study for organics diversion. Identified a potential site for a regional composting facility.
	Hired local firm to conduct a recycling campaign aimed at small and medium sized businesses and multi-family units.
	Full implementation of new computer software at all RDOS landfills in preparation for providing improved tracking of amounts, types and diversion of solid waste.
	Completed the conversion of Keremeos waste management site to a transfer station by finalizing the closure plan of the landfill at this location.
	Hosted a compost bin sale for residents in March; also held free composting workshops for residents in March and April.
	Finalized design of the Apex Mountain Waste Transfer Station.
	Drainage system and leachate storage pond under construction; biocover pilot project commenced to meet gas capture regulation compliance (three test plots have exhibited positive results); entered into an amended lease agreement with the City of Penticton for Campbell Mountain Landfill.
Community-Wide Actions Proposed for 2018	
	Continue political process for finalizing site for a regional composting facility.
	Power upgrades will be installed at the site of the Apex Mountain Waste Transfer Station, which is scheduled for construction in 2019.
	Update landfill fees and policies to encourage the safe disposal of asbestos and diversion of

	demolition waste; including safe operation of demolition waste sort facility.
	Continue providing outreach programs for waste reduction, including: Orchard Chipping Program, Household Hazardous Waste Program. Provide free classroom / field trip programs on recycling, composting, and conservation for grades K-12.
	Biocover pilot project for methane mitigation for Campbell Mountain Landfill will be completed in 2018.

Corporate Actions Taken in 2017	
	Continue recycling efforts in the Administration Building including lunchroom waste segregation for staff and paper recycling for corporate operations.
Corporate Actions Proposed for 2018	
	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	
Does your local government have construction and demolition waste reduction policies, plans or programs?	Yes
Does your local government have organics reduction/diversion policies, plans or programs?	Yes

2017 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, ridesharing, and public transit, can contribute to reductions in greenhouse gas emissions and more livable communities.

Community -Wide Actions Taken in 2017	
	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.
	Assumed administration of the South Okanagan Transit System in Area "A" with service in Oliver,

	Osoyoos, and Electoral Areas 'A' and 'C', and transportation to medical facilities throughout the region as part of the Health Connections program.
	Implement an integrated Regional Fares and Mapping Guides program with Regional Transit Partners.
	Continue support of Carpool.ca within region in collaboration with destination communities.
	Implemented the Regional Integration Project for the South-Okanagan Similkameen Transit System
Community-Wide Actions Proposed for 2018	
	Continue to support the expansion of BC Transit in the South Okanagan-Similkameen region; facilitate talks with Peachland and West Kelowna, as they will benefit from the program.
	Assist (as required) to BC Transit as new transit system is implemented in 2018/2019 in West Bench.
	Continue with active transportation initiatives: in Areas A, C, D, and H. Further develop the KVR trail with the ultimate goal of it being a continuous recreation and commuter corridor.

Corporate Actions Taken in 2017	
	Public Works purchased three new, more energy efficient vehicles to replace older vehicles.
	Facilitated the 9 th year of corporate participation in Bike to Work Week through in-kind support": in-house liaison between staff and event sponsors, Penticton and Area Cycling Association. The RDOS / City of Penticton challenge was successful, resulting in RDOS participation of 42.2% of staff. RDOS continued the opportunity for bike purchases through a payroll deduction plan.
	Implement a local "Explore BC by Bus" campaign in collaboration with BC Transit.
	Continue to incent staff carpooling through awarding of "Wellness Points."
Corporate Actions Proposed for 2018	
	Continue to investigate opportunities for fleet review; currently in the process of replacing two older vehicles.
	Continue support and participation in Bike to Work week.

Transportation	
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) Carpool.ca coordinator	Yes
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 behavior)?	No

Does your local government integrate its transportation and land use planning?	Yes
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2017 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 greenhouse gas emissions.

Community-Wide Actions Taken in 2017	
	Installed three back up generators in the Naramata Water System.
	Obtained funding for a constructed wetlands component at the Okanagan Falls Wastewater Treatment that will be implemented in collaboration with conservation partners.
	Completion of a Regional Water Conservation Strategy and drafting of a Regulatory Water Use Bylaw.
	Initiated meter-based billing in the West Bench water system.
	The RDOS partnered with the District of Summerland to offer a free rainwater capture workshop to residents. Also continued water conservation outreach workshops, adding “Firesmart Landscaping” to the list of workshops
	Took over the ownership and operations of the Sun Valley Water System from the local irrigation district.
Community-Wide Actions Proposed for 2018	
	Anticipate the additional acquisition of existing small water systems and potential upgrades.
	Continue the West Bench Homeowner Leak Detection Program, as well as its potential expansion to the Naramata Water System.
	Design of a grit removal and a sludge dewatering system at the wastewater treatment facility at Okanagan Falls; this upgrade has been funded by the Federal Gas Tax Fund.
	Replacing of old pumps and main feeder lines in the pump house in the Sun Valley Water System with new more efficient models. Funded by the Clean Water and Wastewater Fund Grant.
	Installation of a grit removal and a sludge dewatering system at the wastewater treatment facility at Okanagan Falls; this upgrade has been funded by the Federal Gas Tax Fund.
	Completion of an upgrade master plan for the Willowbrook water system and replacement of the deteriorating pump house building.
	Complete upgrades to the communication system at several lift stations and manholes in the Okanagan Falls sewer system.
	Continue water conservation outreach workshops.

Corporate Actions Taken in 2017	
	Implemented Parks and Recreation response to summer drought conditions through reduced irrigation control times and stricter adherence to relevant watering restriction bylaws.
	Upgraded data monitoring systems for Willowbrook Water System and Sun Valley Water System. Upgraded monitoring systems cut down on the amount of required site visits.

Corporate Actions Proposed for 2018	
	Blank

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

2017 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.

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 • Extreme weather events contributing to urban and overland flooding • Sea level rise and storms causing coastal flooding and/or erosion 	
Other:	

In 2017 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. storm water system upgrades)	Yes

Beach Nourishment projects	Yes
Economic diversification initiatives	No
Strategic and financial planning	Yes
Cross-department working groups	Yes
OCP policy changes	Yes
Changes to zoning and other bylaws and regulations	Yes
Incentives for property owner (e.g. reducing storm water run-off)	Yes
Public education and awareness	Yes
Research	Yes
Mapping	Yes
Partnerships	Yes
Other:	

Climate Change Adaptation Actions Taken in 2017	
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.	
	Participated and completed strategies developed under the Provincial Agricultural Climate Change Adaptation program including: development of Agricultural Drought Communications strategy targeting producers with a water conservation component; 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 creation of a database app for prevention and mitigation of other invasive species that impact agricultural producers. Reports available at: https://www.bcagclimateaction.ca/regional/okanagan-thompson/
	Hosted a post 2017 flood discussion for all levels of government in the region, politicians, Operations staff, local agencies and industry professionals to better prepare for 2018. This was done in partnership with Associated Environmental and OBWB.
	First Nations elders and knowledge keepers, and 500 school children, planted 1500 cottonwood trees for flood mitigation and riparian restoration as part of a Heritage Canada – Canada 150 grant.
Climate Change Adaptation Actions Proposed for 2018	
	Phase 2 of Climate Action Adaptation for Agriculture in 3 of the projects undertaken in 2017; Drought messaging, optimization of farm inputs using weather station data; move the invasive species database out into the public realm, add species and dedicated summer staff to answer queries
	Complete the 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 regulation to include in Okanagan Valley zoning bylaws.

For more information please contact:	

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, 2016 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: An Implementation Guide for Local Governments The Public Infrastructure and Engineering Vulnerability Committee's (PIEVC) protocol Sea Level Rise Primer BC Regional Adaptation Collaborative Webinars www.ReTooling.ca Water Balance Model The Water Conservation Calculator	Haven't Used/ Useful /Not Useful Haven't Used / Useful /Not Useful Haven't Used /Useful/Not Useful Haven't Used /Useful/Not Useful Haven't Used /Useful/Not Useful Haven't Used /Useful/Not Useful Haven't Used / Useful /Not Useful Haven't Used /Useful/Not Useful Haven't Used /Useful/Not Useful Haven't Used /Useful/Not Useful Haven't Used /Useful/Not Useful Haven't Used /Useful/Not Useful Haven't Used / Useful /Not Useful Haven't Used / Useful /Not Useful
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	Haven't Used / Useful /Not Useful Haven't Used / Useful /Not Useful Haven't Used / Useful /Not Useful Haven't Used / Useful /Not Useful Haven't Used / Useful /Not Useful Haven't Used / Useful /Not Useful
Other: 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	

2017 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.

Community-Wide Actions Taken in 2017

	The Mosquito Control Program continues to use Aspen Fuel, which burns cleaner than conventional mixes, thereby reducing GHG.
Community-Wide Actions Proposed for 2017	
	Attend the Parks and Recreation Fall Learning Day in Kelowna and present the benefits of Aspen Fuel in small engines in reducing GHG's and VOC's.

Corporate Actions Taken in 2017	
	Blank
Corporate Actions Proposed for 2017	
	Blank

Other	
Are you familiar with the Community Lifecycle Infrastructure Costing Tool (CLIC) ?	Yes
Have you used CLIC?	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 repeat 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 raising their profile through applications to [CEA's Climate and Energy Action Awards](#), [UBCM Climate and Energy Action](#)

[Award, FCM Sustainable Communities Awards](#) or through submissions to [FCM's National Measures Report](#)

Community-Wide Action

The Drought and Flood Risk Mitigation and Management Plan seeks to create a comprehensive, regional approach to determine drought preparedness and resilience for all RDOS communities, including Indian Bands, recognizing that the operations of all regional water purveyors will be similarly affected by prolonged drought conditions. Key elements of this initiative are encouraging upgrades to existing infrastructure and increased efforts in conservation communication. The intended outcomes are improved infrastructure performance; reductions in treatment, pumping and processing of water; reducing wear and tear on infrastructure; and reduction in overall water use.

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.

In 2016, a Conservation Trust Fund was approved, to be collected through an annual tax requisition, providing a consistent financial base that can be leveraged for additional funding. The end result will allow 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. In 2017, the Board of Directors appointed its first Technical Advisory Committee for the inaugural year of the Fund – now called the South Okanagan Conservation Fund. In its first year, the Fund allocated \$400,271.68 to seven independent projects that involved the purchase, protection or restoration of environmentally sensitive areas in the South Okanagan.

In 2017, the RDOS implemented The West Bench Homeowner Leak Detection Program, which identified and encouraged homeowners to fix leaks on their side of the water meter before volume based pricing was later implemented. The project successfully identified 167 individual accounts with some kind of intermittent or continuous leak. As leaks were identified, they were fixed resulting in greater overall water conservation and an 80-85% reduction in high bill complaints. The initiative won a Canada Wide Water Award for its innovation and conservation efforts. Due to the success of the system, the RDOS is planning on implementing the system in Naramata, which will ultimately work to reduce residential, commercial, and agricultural leaks. This program has generated several requests for workshops and speaking engagements at industry conferences.

For more information contact: Zoe Kirk, RDOS Public Works Projects Coordinator, zkirk@rdos.bc.ca

Corporate Action

For more information contact:

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.

Mitigation

Programs 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, Carpool.ca, TNRD, 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, Canada 150 Community Grant 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,

Adaptation

Programs and Funding
Okanagan Basin Water Board, Fortis BC, RBC Blue Water Project Grant, South Okanagan Similkameen Conservation Program, UBCO, TNRD, Building Canada, BC Ministry of Agriculture, Washington State University, Agriculture and Agri-foods Canada, Environment Canada, BC Climate Action Secretariat, Ministry of Forestry, Lands and Natural Resources Operations Rural Dividend Funding Program, Okanagan Nation Alliance and Eno'wkin Center, UBCM, Okanagan Xeriscape Association. South Okanagan Real Estate Board, Okanagan and Similkameen Conservation Alliance, Growing Forward2 Federal Program

2017 CARBON NEUTRAL REPORTING

Local governments are required to report on their progress in achieving their carbon neutral goal under the 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 [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 greenhouse gas (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

Did you measure your local government's corporate GHG emissions in 2017?	Yes
If your local government measured 2017 corporate GHG emissions, please report the number of corporate GHG emissions (in tonnes of carbon dioxide equivalent) from services delivered <u>directly</u> by your local government:	358.69
If your local government measured 2017 corporate GHG emissions, please report the number of corporate GHG emissions (in tonnes of carbon dioxide equivalent) from <u>contracted</u> services:	309.33
TOTAL A: CORPORATE GHG EMISSIONS FOR 2017	668.02 tCO2e

Reporting Reductions and Offsets

To be carbon neutral, a local government must balance their TOTAL corporate GHG emissions generated in 2017 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

If applicable, please report the 2017 GHG emissions reductions (in tonnes of carbon dioxide equivalent (tCO2e)) being claimed from Option 1 GHG Reduction Projects:

OPTION 1 PROJECTS	REDUCTIONS
Energy Efficient Retrofits	
Solar Thermal	

Household Organic Waste Composting	
Low Emission Vehicles	
Avoided Forest Conversion	
TOTAL B: REDUCTIONS FROM OPTION 1 PROJECTS FOR 2017	0 tCO2e

If applicable, please report the names and 2017 GHG emissions reductions (in tonnes of carbon dioxide equivalent (tCO2e)) being claimed from Option 2 GHG Reduction Projects:

OPTION 2 PROJECT NAME	REDUCTIONS
TOTAL C: REDUCTIONS FROM OPTION 2 PROJECTS FOR 2017	0 tCO2e

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 2017 reporting year:

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

OFFSET PROVIDER NAME	OFFSETS
TOTAL D: OFFSETS PURCHASED FOR 2017	0 tCO2e

TOTAL REDUCTIONS AND OFFSETS FOR 2017 (Total B+C+D) = 0 tCO2e

Corporate GHG Emissions Balance for 2017

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

CORPORATE GHG EMISSIONS BALANCE FOR 2017 = (A – (B+C+D)) = 668.02 tCO2e

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

If applicable, please record any emissions reductions you will be carrying over for future years and the source of the emissions reductions, including the year they were earned (E.g., Organics diversion, 2016 100 tCO₂e).

SOURCE OF CARRY OVER EMISSION REDUCTIONS (and year earned)	REDUCTIONS
	0
BALANCE OF REDUCTIONS ELIGIBLE FOR CARRY OVER TO NEXT YEAR	0 tCO₂e

Carbon Neutral Reporting	
Does your local government have a climate reserve fund or something similar?	No

GCC CLIMATE ACTION RECOGNITION PROGRAM

Green Communities Committee (GCC) 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 (i.e: 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.

For purposes of 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 or financial resources and is intended to result in significant GHG reductions:

PROJECT NAME:

Based on your local government's 2017 CARIP Climate Action/Carbon Neutral Progress Survey, please check the GCC Climate Action Recognition Program level that best applies:

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