



Regional District of Central Okanagan Climate Action Revenue Incentive Program (CARIP)

Public Report, 2019



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Introduction

The BC Climate Action Charter is a voluntary agreement between the Province of British Columbia, the Union of British Columbia Municipalities and each local government signatory. The Charter was launched at the 2007 UBCM Convention; since then, the majority of local governments in BC have become signatories.

The overarching goal of the Charter is to take collaborative action on climate change by promoting the reduction of greenhouse gasses emitted in the provision of local government services. Charter signatories are eligible to participate in the *Climate Action Revenue Incentive Program* (CARIP).

CARIP is a conditional grant program that provides local governments funding equal to 100% of the carbon taxes they pay directly in the provision of services. The goal of CARIP is to help local governments achieve carbon neutrality. Participating local governments are obligated to report their progress towards carbon neutrality to the public annually. Under the Charter, local governments are also required to:

- Work towards carbon neutrality in their corporate operations (service delivery);
- Measure and report on their community GHG emissions profile;
- Create complete compact, energy-efficient rural and urban communities; and
- Report associated emissions and program data to the public and the Province annually.



Organizational Context

The Regional District of Central Okanagan (RDCO) is a signatory of the BC Climate Action Charter, and therefore, eligible to apply for a grant under the CARIP program. The RDCO serves well over 100,000 Okanagan residents and is committed to making progress in reducing greenhouse gas emissions by consistently reporting progress towards carbon neutrality. The following Report is based on the "2019 Climate Action Revenue Incentive Program (CARIP) Survey". This Report outlines specific actions taken by the RDCO in 2019 to support progress towards carbon neutrality.

The RDCO's commitment to the BC Climate Action Charter is continued through the new Regional Board Strategic Priorities Plan (2019-2022). The Strategic Priorities Plan supports the creation of compact, complete, and energy-efficient communities by prioritizing transportation and mobility, sustainable communities, economic development, and the environment.

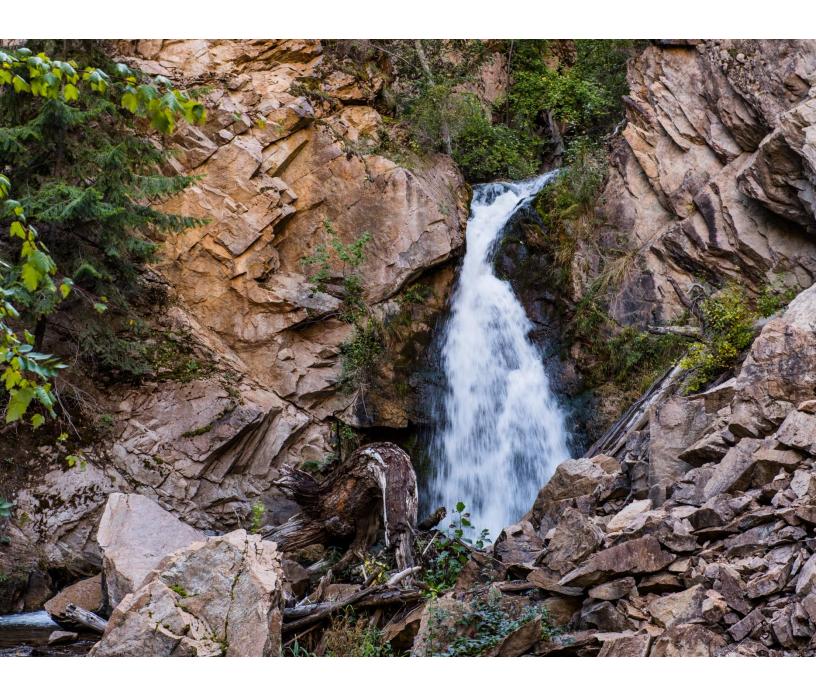
Specific actions noted in the plan include:

- Strengthening the linkage between land use and transportation in the Regional Growth Strategy,
- · Completing the Regional Transportation Plan,
- Advancing the inter-regional Rail Trail Corridor initiative,
- Developing best practices to encourage housing innovation and the adoption of sustainable building standards (e.g., BC Energy Step Code), and
- Exploring regional waste-to-energy opportunities and an approach to single use plastics pursuant to the Solid Waste Management Plan.

In 2019, the Regional District supported progress towards clean, compact and, energy-efficient communities with the following activities:

- The coordination, policy development, and implementation of region-wide comprehensive planning,
- The implementation, monitoring and review of the Regional Growth Strategy (RGS),
- The continued implementation of the Biodiversity Conservation Strategy and related projects with the Okanagan Collaborative Conservation Program (OCCP),
- The continued participation in regional initiatives and programs, such as the Sustainable Transportation Planning Committee including STPCO, the Central Okanagan Planning Study (COPS), the Peachland Transportation Study, and the Regional Air Quality Technical Committee,
- Continued public engagement, information is provided and sought through public meetings, workshops, information sessions, brochures, the RDCO website, and social media,
- The hosting of waste reduction events such as the annual Repair Café and the Trunk Sale, which provide opportunities to keep our communities clean by encouraging the recycling and reuse of day-to-day items,
- Participation in the Climate Projections Report in collaboration with the Regional District of North Okanagan and South Okanagan-Similkameen,
- The completion of a Regional Housing Needs Assessment and the expansion of the Regional Planning Lab Initiative,

• The development of park trails, which provide opportunities for the use of more energy-efficient modes of transportation such as cycling and walking.



2019 Corporate Climate Action

Corporate climate actions refer to actions that reduce the 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.

In 2019, when it comes to corporate climate action, did your local government undertake any of the following (please select all that apply):

\mathbf{V}	Building and Lighting Actions
\mathbf{V}	Energy Generation Actions
\mathbf{V}	Greenspace Actions
\mathbf{V}	Planning Actions
\mathbf{V}	Solid Waste Actions
\mathbf{V}	Transportation Actions
\mathbf{V}	Water and Wastewater Actions
	Other Climate Actions (PLEASE SPECIFY)
	Don't know

Corporate Building and Lighting Actions:

When it comes to corporate Building and Lighting Actions, did your local government undertake any of the following in 2019 (please select all that apply):

\mathbf{V}	New or upgraded energy-efficient lighting systems
\mathbf{V}	New or upgraded energy-efficient heating systems
	New or upgraded building envelope initiatives
$ \mathbf{V}$	Upgrades to amenities in recreation facilities
\mathbf{V}	Studies related to building and/or lighting energy efficiency
$ \mathbf{V}$	Other (PLEASE SPECIFY)
П	Don't know

In 2019 the Regional District:

Undertook Energy-Efficient Retrofits

- The continued renewal of interior and exterior lighting systems at both the Environmental Education Centre for the Okanagan (EECO) at Mission Creek Park and the Westside Wastewater Treatment Plant (WWTP), systems were upgraded to energy-efficient LED lighting. Lighting upgrades to facilities continue as needed.
- The RDCO continued the installation and renewal of energy-efficient elements in RDCO facilities, including auto shut-off light switches, hot water tanks, and the planning and installation of energy-efficient HVAC systems.

Corporate Energy Generation Actions:

When it comes to corporate Energy Generation Actions, did your local government undertake any of the following in 2019 (please select all that apply):

V	Solar power projects
	Heat recovery or heat reclamation projects
	Biomass or bio-gas projects
	Geo-exchange or geothermal projects
	Studies related to energy generation
\mathbf{V}	Other (PLEASE SPECIFY)
П	Don't know

In 2019 the Regional District:

Incorporated Solar Power

In 2019, Regional Parks completed phase 2 of the solar-powered park entrance gate project.
 Parks Services also installed solar mobile device charging stations in Mission Creek
 Regional Park.

Corporate Greenspace Actions:

When it comes to corporate Greenspace Actions, did your local government undertake any of the following in 2019 (please select all that apply):

✓ Tree planting
 ✓ Greenspace acquisition
 ✓ New or upgraded amenities in parks
 ✓ Invasive species management
 ✓ Plans or strategies related to greenspace
 ✓ Other (PLEASE SPECIFY)
 □ Don't know

Greenspace initiatives included tree planting, upgrades in parks, post-flooding restoration, invasive species management, and land acquisition, plans, or strategies related to greenspace.

In 2019 the Regional District:

Continued the protection of Wetlands, Waterways, and Other Naturally Occurring Features

- The RDCO continued the enforcement of Environmental Development Permit Areas under multiple Official Community Plans and one Rural Land Use Bylaw for the protection of the natural environment or protection of development from hazardous conditions.
- The continued the collaborative implementation of both the Provincial Riparian Area Protection Regulations and the Biodiversity Conservation Strategy.
- The Regional District continued the advancement of foreshore and riparian management, including mapping, capacity, and outreach activities.

Developed Parks and Restored Infrastructure and Natural Assets

- The RDCO developed parks trails, including the Goats Peak Regional Park Summit Trail, the Tower Ranch Trail in Black Mountain Regional Park (connection to other parks), and an accessible path in Mission Creek Regional Park.
- The Regional District continued post-flooding and landslide restoration projects, including the ecological restoration of a streamside landslide in Johns Family Nature Conservancy Regional Park, the realignment of flood-damaged Mission Creek Greenway Regional Park Trail, and the repairs to foreshore damage at Okanagan Centre Safe Harbour Regional Park and Killiney Beach Community Park. Further activities due to flood damage included repairs to the Bellevue Creek intake and the replacement of two flood-damaged bridges in Hardy Falls Regional Park.

Continued Protective Works

- Streambank protection for the Woodhaven Nature Conservancy Regional Park and surrounding area;
- Streambank erosion repairs incorporating ecological restoration and bioengineering to support staircase in Glen Canyon Regional Park; and
- The reinforcement of fencing around the ephemeral ponds in Black Mountain Regional Park, which protects the Great Basin Spadefoot Toad.

Consulted the Community

 Mission Creek Regional Park Management Plan Online Survey conducted from September 20 to October 4, 2019. Public Engagement occurred on September 27, 2019, at the Mission Creek Regional Park, followed by an Open House on December 4, 2019.

Corporate Planning Actions:

When it comes to corporate Planning Actions, did your local government undertake any of the following in 2019 (please select all that apply):

	Energy/Emissions Management Plan (New or Updated)
	Asset Management Plan (New or Updated)
	Corporate Climate Action Plan (New or Updated)
$ \mathbf{V}$	Strategic Plan (New or Updated)
\mathbf{V}	Other (PLEASE SPECIFY)
	Don't know

In 2019 the Regional District:

Initiated a Park Management Plan (Mission Creek)

• The Regional District commenced a Park Management Plan for Mission Creek Regional Park, to guide the use and development of the park; this project will extend into 2020.

Continued Monitoring

- The Regional District completed, in collaboration with member municipalities, the Regional Growth Strategy Monitoring Program. The Program provides the foundation for the on-going monitoring and evaluation of the Regional Growth Strategy through the implementation of progress monitoring measures.
- The RDCO continued the monitoring and measurement of park usage via a Visitor Use Metrics Data Collection process.

Continued Asset Management

- The RDCO continued the implementation of asset renewal strategies across all asset classes. Capital asset renewal actions are made in alignment with the strategic priorities and approved through the adoption of the budget bylaw.
- Staff from various departments participated in asset management training.
- The Regional District continues to strengthen the connection between operations, maintenance, asset lifecycle activities and long-term financial planning.



Continued Capacity Building (Energy and Emissions Management)

 The RDCO reviewed opportunities to further energy and emissions management, including the FortisBC Climate Action Partners Program (Senior Energy Specialist), various GHG emission reduction strategies, as well as alternative energy projects.

Participated in the Okanagan-Wide Climate Projections Report

• The RDCO collaborated with the Regional District of North Okanagan, the Regional District of Okanagan-Similkameen, the Pacific Climate Impacts Consortium, and Pinna Sustainability to develop a Climate Projections Report. The Report offers science-based information on how the Okanagan's climate is projected to change. This Report intends to enable community leaders and local decision-makers to explore how, together, we can prepare the Okanagan for the inter-related impacts facing our region.

When	it comes to corporate Solid Waste Actions, did your local government undertake any of lowing in 2019 (please select all that apply):	
	Introduction, expansion or improvement of recycling initiatives at corporate facilities	
	Introduction, expansion or improvement of composting initiatives at corporate facilities	
\mathbf{V}	Communication or education for staff related to corporate solid waste initiatives	
	Studies or research related to corporate solid waste initiatives	
	Plans or strategies related to corporate solid waste initiatives	
\mathbf{V}	Other (PLEASE SPECIFY)	
	Don't know	
In 201	9 the Regional District:	
• Th	ered in the Use of Compressed Natural Gas (CNG) Trucks e RDCO, in partnership with member municipalities, commenced the use of compressed tural gas (CNG) trucks for garbage, recycling, and yard waste collection. The use of CNG cks is positive for the reduction of GHG emissions.	
 Continued Promoting Waste Reduction Waste reduction actions included the distribution of recycling reference materials and the promotion of reduction events such as the repair café, the trunk sale, and free tire collection. 		
 Continued Recycling RDCO staff participated in the separation of recyclables from waste streams in all major office facilities, including the KLO Administrative Building and parks offices. 		
Corporate Transportation Actions: When it comes to corporate Transportation Actions, did your local government undertake any of the following in 2019 (please select all that apply):		
\mathbf{V}	Fleet replacement or upgrades	
	New or improved electric vehicle initiatives	
	New or improved active transportation infrastructure for staff	
	Communication or outreach for staff related to corporate transportation initiatives	
	New or improved public transportation initiatives for staff	
	Other (PLEASE SPECIFY)	

Don't know

Corporate Water and Wastewater Actions:

When it comes to corporate Water and Wastewater Actions, did your local government undertake any of the following in 2019 (please select all that apply):

✓ New or improved water or wastewater infrastructure
 ☐ Studies or research related to water conservation
 ☐ Plans or strategies related to water or wastewater
 ✓ Water reduction initiative(s)
 ✓ Other (PLEASE SPECIFY)
 ☐ Don't know



In 2019 the Regional District:

Adapted Park Trails

 RDCO 2019 water-related strategies included the addition of trail grading and controls, by Parks Services, within the trail systems. Trail grading and controls promote natural infiltration and minimize erosion.

Changed Biosolids Disposal Processes

 The District has new agreements in place which allow for a portion of the biosolids produced at the Westside Wastewater Treatment Plant to be utilized in BC. The local processing of biosolids shortens the overall trucking route, which is positive for the reduction of GHG emissions.

Undertook Water and Wastewater Actions

- The District continued implementing the RDCO Water Conservation Plan, which was updated in 2018. Water conservation initiatives include:
 - Information sharing: RDCO has to date implemented sprinkling restrictions and has included water conservation-related pamphlets with utility bills and applicable information on the website. Further tips to our water customers on water conservation are included in the Water Talk Newsletter. The newsletter is sent out to all RDCO water customers each spring and fall, discussing system updates, new construction and conservation tips and ideas. Also, the RDCO website is updated regularly with new information. Each water system has a dedicated webpage providing system-specific updates and information.
 - Consumption Fee: The four-tiered rate consumption fee promotes water conservation in all the RDCO water systems.
 - Universal Metering: The RDCO has completed installing water meters to all active customers.
 - Leak Detection: The RDCO resources and undertakes leak detection projects annually.

Outdoor Irrigation: Restrictions are effective for customers of RDCO water systems as follows:

Stage 1 Alternate Days 3	Sprinkling:
Effective	September 16th to June 15th, unless Notice of Stage 3 or 4 in Effect
Even numbered addresses:	Sprinkling is only permitted on Even Calendar Days
Odd numbered addresses:	Sprinkling is only permitted on Odd Calendar Days
Stage 2 Twice a Week S	Sprinkling:
Effective	June 16th to September 15th, unless Notice of Stage 3 or 4 in Effect
Even numbered addresses:	Sprinkling is only permitted on Saturdays & Tuesdays
Odd numbered addresses:	Sprinkling is only permitted on Sundays & Wednesdays
Stage 3 Restriction Perio	od - Once a Week <i>Sprinkling</i> :
Effective	Upon Notice Issued by Regional District Officer
Even numbered addresses:	Sprinkling is only permitted on Saturdays
Odd numbered addresses:	Sprinkling is only permitted on Sundays
Stage 4 Restriction Perio	od – No <i>Sprinkling</i>
Effective	Upon Notice Issued by Regional District Officer

Corporate Climate Actions Focused on Reducing GHG Emissions:

When it comes to the corporate climate action, please highlight up to three significant actions focused on reducing GHG emissions that your local government undertook in 2019:

Corporate Action #1

The Regional Board set new Strategic Priorities. The Regional Board Strategic Priorities Plan (2019-2022) provides high-level guidance for corporate activities, including efforts to reduce our greenhouse gas emissions and adapt to climate change.

Corporate Action #2

The RDCO continued planning, collaborating, and information sharing to promote the overall reduction of corporate GHG emissions. Of note, in 2019, are actions taken in the Broad Planning, Greenspace/Natural Resource Protection, Solid Waste, and Water/ Wastewater Treatment categories.

Corporate Action #3

The RDCO commenced new contract service agreements that incorporate the reduction of GHG emissions through the shortening of annual trucking time (biosolids trucking) and the use of compressed natural gas fuel (garbage, yard waste, and recycling collection).

2019 COMMUNITY-WIDE CLIMATE ACTION

Community-wide actions refer to actions that reduce GHG emissions across the community (i.e. actions not related to "traditional services" corporate operations). In 2019, this included actions pertaining to building and lighting, greenspace, planning, solid waste, transportation, water and wastewater.

When it comes to community-wide climate action in 2019, did your local government undertake any of the following (please select all that apply):

\mathbf{V}	Building and Lighting Actions
	Energy Generation Actions
\mathbf{V}	Greenspace Actions
\mathbf{V}	Planning Actions
\mathbf{V}	Solid Waste Actions
\mathbf{V}	Transportation Actions
\mathbf{V}	Water and Wastewater Actions
	Other Climate Actions (PLEASE SPECIFY)
	Don't know
When	munity-Wide Building and Lighting Actions: it comes to community-wide Building and Lighting Actions, did your local government ake any of the following in 2019 (please select all that apply):
	New or upgraded energy-efficient lighting systems
	New or upgraded energy-efficient heating systems
	BC Energy Step Code related projects
\checkmark	Incentives/rebate programs related to energy-efficient building or lighting
$\mathbf{\nabla}$	Outreach, education or communication related to energy-efficient building or lighting
	Other (PLEASE SPECIFY)
	Don't know

Community-Wide Energy Generation Actions: When it comes to community-wide Energy Generation Actions, did your local government undertake any of the following in 2019 (please select all that apply): Solar power projects П Heat recovery or heat reclamation projects \Box Landfill gas capture/utilization projects Micro-hydro projects Studies or research related to energy generation Other (PLEASE SPECIFY) Don't know **Community-Wide Greenspace Actions:** When it comes to community-wide Greenspace Actions, did your local government undertake any of the following in 2019 (please select all that apply): Tree planting П Greenspace restoration or maintenance

In 2019 the Regional District:

Don't know

Greenspace acquisition

Invasive species management

Other (PLEASE SPECIFY)

Plans or strategies related to greenspace

 \mathbf{A}

 \mathbf{A}

Continued Community-Wide Greenspace Actions

- The RDCO continued the updating of environmental inventory and mapping.
- The Regional District continued the advanced foreshore and riparian management, mapping, capacity, and outreach activities.
- The organization continued the collaborative exploration of options for increased shoreline management of Okanagan Lake at a multi-jurisdictional level.
- The RDCO continued the implementation of the Provincial Riparian Area Protection Regulations.

- The Regional District continued participation in the Water Stewardship Council and related projects with the Okanagan Basin Water Board (OBWB). The RDCO also collaborated with OBWB on the Hydrometric Monitoring Partnership.
- The Regional District continued the implementation of the Biodiversity Conservation Strategy and related projects with the Okanagan Collaborative Conservation Program (OCCP).
- The organization participated in the Water Stewardship Council and related projects with Okanagan Basin Water Board.
- Actively participated in advancing the protection of the identified Ecosystem Connectivity Corridor from Okanagan Mountain Provincial Park to Kalamalka Lake Provincial Park.
- Collaborated with the OBWB on the Hydrometric Monitoring Partnership.

Promoted Healthier Greenspaces

- The RDCO continued the promotion of educational materials regarding noxious weeds and invasive weed species.
- The Regional District continued enforcing Bylaw No. 179. The Bylaw requires property
 owners within the Regional District of Central Okanagan electoral areas, the City of Kelowna,
 District of Lake Country and District of Peachland to prevent the growth of noxious weeds
 and tall grasses. The Bylaw also requires property owners to provide for the cutting or
 destruction of noxious weeds and tall grasses.

Community-Wide Planning Actions:

When it comes to community-wide Planning Actions, did your local government undertake any of the following in 2019 (please select all that apply):

	Official Community Plan (New or Updated)
	Climate Action Plan (New or Updated)
	Regional Growth Strategy (New or Updated)
	New or updated Bylaw (s) or zoning addressing climate issues
$ \mathbf{V}$	Other (PLEASE SPECIFY)
	Don't know

In 2019 the Regional District:

Continued Community-Wide Planning

- Community Services explored opportunities to the review and revision of Official Community Plans;
- The RDCO continued to implement Phase 2 of the Regional Floodplain Management Plan;
- The Regional District coordination, policy development, and implementation for region-wide Comprehensive Planning:
- The RDCO promoted coordinated planning that addresses issues affecting all levels of local and First Nations governments within the Central Okanagan. Collaborative planning is

- essential in the management of growth and the support of human settlement that is socially, economically, and environmentally sustainable.
- The RDCO continued to develop enhanced communication, coordination, and collaboration among the various levels of government, First Nations, and the public to build an understanding and an awareness of regional growth impacts.
- The organization continued the implementation of the Regional Growth Strategy (RGS):
 - Participated in a joint planning approach among all levels of government to identify appropriate courses of action to manage growth within the key issue areas of the Regional Growth Strategy, and
 - The Regional District, in collaboration with member municipalities, completed the Regional Growth Strategy Monitoring Program. The Program provides the foundation for on-going monitoring and evaluation of the Regional Growth Strategy through the development of a set of measures that can be used to monitor progress.
- The RDCO collaborated with the Regional District of North Okanagan, the Regional District of Okanagan-Similkameen, the Pacific Climate Impacts Consortium, and Pinna Sustainability to develop a Climate Projections Report. The Report offers science-based information on how the Okanagan's climate is projected to change. The Climate Projections Report is intended to enable community leaders and local decision-makers to explore how, together, we can prepare the Okanagan for the inter-related impacts facing our region.

Community-Wide Solid Waste Actions:

When it comes to community-wide Solid Waste Actions, did your local government undertake any of the following in 2019 (please select all that apply):

\mathbf{V}	Introduction, expansion or improvement of recycling initiatives
	Introduction, expansion or improvement of composting initiatives
\mathbf{V}	Community clean-up initiatives
\mathbf{V}	General waste reduction initiative (including landfill diversion strategies)
\mathbf{V}	Outreach, education or communication related to solid waste
\mathbf{V}	Other (PLEASE SPECIFY)
	Don't know



In 2019 the Regional District:

Further Solid Waste Actions taken in 2019 include:

- Collaborated with member municipalities to secure a new curbside collection contract for the region. The new fleet of collection trucks is fueled with compressed natural gas rather than diesel;
- Continued to host community reduction events such as The Repair Café, The Trunk Sale, and Used Tire Collection,

- The RDCO continued on-going initiatives such as Community Cleanup, Household Hazardous Waste Collection, and Illegal Dump Clean-up.
- The Regional District continued the public promotion and distribution of FreeGarden Earth composters, rain barrels, and animal waste green cones.

Community-Wide Transportation Actions:

When it comes to community-wide Transportation Actions, did your local government undertake any of the following in 2019 (please select all that apply):

	New or improved active transportation infrastructure
	New or improved public transportation initiatives
	New or improved electric vehicle initiatives
	Outreach, education or communication related to transportation
	Plans or strategies related to transportation
\checkmark	Other (PLEASE SPECIFY)
	Don't know

In 2019 the Regional District:

Participated in Regional Programs

- The RDCO continued participation with the Sustainable Transportation Partnership of the Central Okanagan. The organization coordinates the regional delivery of sustainable transportation programs and projects in support of common regional policies, plans and interests (economic, social and environmental).
- The Regional District continued the discouragement of vehicle idling in collaboration with the Regional Air Quality Coordinator. Idling information and links to further educational materials are provided on the RDCO website.

Community-Wide Water and Wastewater Actions:

When it comes to community-wide Water and Wastewater Actions, did your local government undertake any of the following in 2019 (please select all that apply):

	Water restrictions
	Incentives/rebate programs related to water or wastewater
\mathbf{V}	Outreach, education or communication related to water or wastewater
$ \mathbf{V} $	Studies or research related to water or wastewater
	Plans or strategies related to water or wastewater
	Other (PLEASE SPECIFY)
	Don't know

In 2019 the Regional District:

Participated in Wastewater Research

 The Regional District participated, as a collaborative research partner, in the UBC Bioreactor Technology Group's: Community Driven Biosolids Research, forming the UBC Okanagan & Regional District of Central Okanagan NSERC Collaborative Research Development Partnership. The research hopes to solve challenges associated with Biosolids. Biosolids are a byproduct of the wastewater process.

Promoted Water Conservation

- The RDCO continued the provision of water conservation tips on the RDCO website.
- The Regional District promoted and distributed FreeGarden Rain Barrels.

Community-Wide Actions Focused on Reducing GHG Emissions:

When it comes to the community-wide climate action, please highlight up to three significant actions focused on reducing GHG emissions that your local government undertook in 2019:

Community-Wide Action #1

The Regional Board set new Strategic Priorities. The Regional Board Strategic Priorities (2019-2022) provides high-level guidance for corporate involvement in community-wide activities. The Priorities include the promotion of transportation and land use approaches, which are intended to enhance movement throughout the region and reduce our collective reliance on vehicles.

Community-Wide Action #2

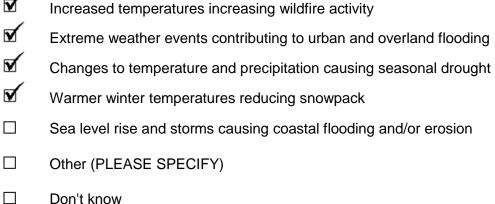
The Regional District collaborated with the Regional District of North Okanagan, the Regional District of Okanagan-Similkameen, the Pacific Climate Impacts Consortium, and Pinna Sustainability to develop a Climate Projections Report. The Report offers science-based information on how the Okanagan's climate is projected to change. This Report intends to enable community leaders and local decision-makers to explore how, together, we can prepare the Okanagan for the inter-related impacts facing our region.

Community-Wide Action #3

The RDCO participated in the *UBC Okanagan & Regional District of Central Okanagan NSERC Collaborative Research Development Partnership.* The research conducted with the help of this partnership is hoped to solve challenges associated with Biosolids. Biosolids are a byproduct of the wastewater process.

2019 Climate Preparedness and Adaptation Action:

Climate Impacts: Please identify the climate impacts that are most relevant to your local government (please select all that apply): Increased temperatures increasing wildfire activity



In 2019, did your local government take any of the following actions in an effort to consider or address the impacts of climate change? (please select all that apply)

\mathbf{V}	Emergency response planning
\mathbf{V}	Asset management
\mathbf{V}	Infrastructure upgrades
\mathbf{V}	Public education and awareness
\mathbf{V}	Strategic and financial planning
\mathbf{V}	Risk and vulnerability assessments
	Risk reduction strategies
	Official Community Plan policy changes
	Other (PLEASE SPECIFY)
	Don't know

In 2019, did your local government partnered with any of the following organizations to prepare for and adapt to a changing climate? (please select all that apply)

	Adaptation to Climate Change Team (SFU)
	Columbia Basin Trust
$ \mathbf{V}$	Community Emergency Preparedness Fund (UBCM)
\mathbf{V}	Federation of Canadian Municipalities
\mathbf{V}	Fraser Basin Council
\mathbf{V}	Pacific Institute for Climate Solutions (UVIC)
	Other (PLEASE SPECIFY)
	Don't know

When it comes to climate preparedness and adaptation actions, please highlight up to three significant actions/initiatives that your local government undertook in 2019:

Adaptation Action #1

The Regional District collaborated with the Regional District of North Okanagan, the Regional District of Okanagan-Similkameen, the Pacific Climate Impacts Consortium, and Pinna Sustainability to develop a Climate Projections Report. The Report offers science-based information on how the Okanagan's climate is projected to change. This Report intends to enable community leaders and local decision-makers to explore how, together, we can prepare the Okanagan for the inter-related impacts facing our region.

Adaptation Action #2

The RDCO continued on-going work towards the completion of the Regional Floodplain Management Plan – Phase 2. The Regional Floodplain Management Plan (RFMP) is a tool that will help the Regional District and its member municipalities in identifying, assessing, and managing the risk of flooding in the Central Okanagan region. The RFMP consists of three phases. Phase 1 was recently completed.

Adaptation Action #3

The Regional District commenced the development of a Parks Management Plan for Mission Creek Regional Park. The management plan is intended to balance passive recreational use with the protection of critical natural assets. Natural assets provide ecological service benefits to the community.

Section 3: 2019 Carbon Neutral Reporting

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

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 CARIP reports.



2019 Carbon Emissions

Did your local government measure corporate GHG emissions for 2019?

\mathbf{V}	Yes
	No
	Don't Know

If your local government measured 2019 corporate GHG emissions, please report the number of corporate GHG emissions (in tonnes of carbon dioxide equivalent (tCO2e)) from:

Service Delivery Type	2019 Corporate GHG Emissions
Services Delivered Directly by your Local Government	672
Contracted Services	852

Total A - Corporate GHG Emissions (Direct + Contracted) For 2019: 1,524

2019 Carbon Reductions

To be carbon neutral, a local government must balance their TOTAL corporate GHG emissions generated in 2019 by one or a combination of the following actions:

Undertake Green Communities Committee-supported Option 1 Project(s) Undertake Green Communities Committee-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 2019 GHG emissions reductions (in tonnes of carbon dioxide equivalent (tCO2e)) being claimed from any of the following Option 1 GHG Reduction Projects:

Option 1 GHG Reduction Projects	2019 GHG Emissions Reductions
1A Energy Efficiency Retrofits	
1B Solar Thermal	
1C Household Organic Waste	
1D Low Emission Vehicles	
1E Avoided Forest Conversion	
1F Trenchless Technology	

TOTAL B - Reductions From All Option 1 Projects For 2019:

0

If applicable, please report the names and 2019 GHG emissions reductions (in tonnes of carbon dioxide equivalent (tCO2e)) being claimed from Option 2 GHG Reduction Projects:

Names of Option 2 GHG Reduction Projects	2019 GHG Emissions Reductions
	Names of Option 2 GHG Reduction Projects

TOTAL C - Reductions From All Option 2 Projects For 2019:

0

2019 Carbon Offsets

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 2019 reporting year:

	Name of Offset Provider	Name of Project	2019 GHG Emissions Reductions
1.			
2.			
3.			
4.			
5.			
6.			

Total	D -	Offsets	Purchased	For 2019:
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0

<u>1,524</u>

Total Reductions and Offsets For 2019 (Total B+C+D):

0

Corporate GHG Emissions Balance for 2019

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

Corporate GHG Emissions Balance For 2019 = (Total A – (B+C+D)):

If your corporate GHG emissions balance is negative or zero, your local government is carbon neutral. CONGRATULATIONS!

If your local government was carbon neutral in 2019, 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, 2019 100 tCO2e):

	Source of Carryover Emission Reduction	Year Earned	GHG Emissions Reductions
1.			
2.			
3.			
4.			
5.			
6.			

Total E - Balance of Reductions Eligible for Carry Over to Next Year:

Green Communities Committee Climate Action Recognition Program:

The joint Provincial-UBCM Green Communities Committee is pleased to be continuing the Climate Action Recognition Program again this year. This multi-level program provides the Green Communities Comittee 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, who measure 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 demonstrate significant action (corporately or community-wide) in reducing 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 corporate carbon neutrality in the reporting year.

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

	Level 1 – Demonstrating Progress on Charter Commitments
\mathbf{V}	Level 2 – Measuring GHG Emissions
	Level 3 – Accelerating Progress on Charter Commitments
	Level 4 - Achievement of Carbon Neutrality
	Don't know

Related to Level 3 recognition, if applicable, please identify any new or on-going 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:

In 2019 the RDCO considered and researched various energy and emission management projects, including solar projects, the addition of a FortisBC Senior Energy Specialist to our team, and greenhouse gas reduction strategies. No new projects were started in 2019.

Does	your local government set aside funds in a climate reserve fund or similar?
	Yes
\mathbf{V}	No
	Don't know



2019 BC Traditional Services GHG Inventory

Regional District of Central Okanagan

Reporting Year: Calendar Year 2019

<u>Inventory Scope:</u> BC Traditional Services Inventory "TSI"

Quantification Methodology: 2019 B.C. Best Practices Methodology for Quantification GHG Emissions,

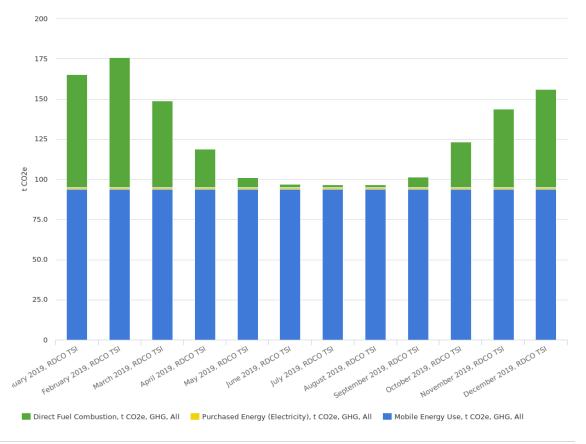
Local Governments & Public Sector Organizations

System Support: SoFi GHG Reporting by GHG Accounting Services

<u>Data collection:</u> Regional District of Central Okanagan

<u>Data Entry:</u> Data Upload

Total TSI GHG Inventory: 1,524 t CO₂e



Total Energy Consumption by Energy Type for Traditional Services Inventory:

	Regional District of Central Okanagan TSI
Natural Gas Stationary [GJ]	7,468
Propane [I]	8,291
Electricity [kWh]	4,909,690
Gasoline [I]	95,524
Diesel [l]	345,837
Natural Gas Mobile [I]	2,858

Scope 1:

	Regional District of Central Okanagan TSI				
	GJ, Energy	t CH4	t N20	t CO2	t CO2e, GHG, Scope 1
Direct Fuel Combustion	7,678	0.007657	0.007623	383	385
Mobile Energy Use	16,499	0.044979	0.072019	1,103	1,126
Total	24,177	0.052636	0.079643	1,486	1,511

Scope 2:

	Regional District of Central Okanagan TSI	
	kWh	t CO2e, GHG, Scope 2
Purchased Energy (Electricity)	4,909,690	13

Biogenic GHG Emissions:

	Regional District of Central Okanagan TSI		
	t Bio CH4	t Bio CO2	t Bio CO2e, GHG, All
Direct Fuel Combustion			
Mobile Energy Use		41.4	41.4
Total		41.4	41.4

Totals by Service Delivery:

Total	RDCO Contracted Services	RDCO Delivered Directly
	Energy Inventory	Energy Inventory
	t CO2e, GHG, All	t CO2e, GHG, All
1,524	852	672

Summary:

	2019	
	Energy Inventory	Total
	t CO2e, GHG, All	
Regional District of Central Okanagan		
Corporate TSI	1,524	<u>1,524</u>

Overview by Service Areas:

Energy Inventory t CO2e, GHG, All, 2019

