

2019 Climate Action Revenue Incentive Program (CARIP) Survey

INTRODUCTION:

The 2019 CARIP survey highlights and celebrates local government climate action in British Columbia.

Local governments are required to submit the 2019 CARIP/ Carbon Neutral Progress Survey by June 1, 2020.

Detailed survey instructions, FAQs and definitions can be found in the CARIP Program Guide for 2019 Claims.

SURVEY CONTENT:

Section 1: Local Government Information

Section 2: Narrative Focus

2019 Corporate Climate Action

2019 Community-wide Climate Action

2019 Climate Change Adaptation Action

Section 3: 2019 Carbon Neutral Reporting

Section 1 – Local Government Information

Name of Local Government:

- Whistler, Resort Municipality of

Name of Regional District:

- Squamish-Lillooet (Regional District)

Does your region have a Regional Growth Strategy (RGS):

- Yes
- No
- Don't know

Population:

- 0-4,999
- 5,000 to 9,999
- 10,000 to 49,999
- 50,000 to 99,999
- 100,000+

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Section 2 - Narrative Focus

Local government signatories to the B.C. Climate Action Charter have committed to taking climate action by:

Working towards achieving corporate carbon neutrality;
Measuring and reporting on their community-wide GHG emissions; and
Creating complete, compact, energy-efficient communities.

A key part of the 2019 CARIP survey is to highlight and celebrate successful climate actions undertaken by local governments in British Columbia.

In 2019, what actions has your local government taken to support the creation of compact, complete, and energy efficient communities?

The RMOW's Official Community Plan (OCP) was updated in 2018/19 although it is still waiting for final adoption. It includes a continued commitment to a cap on growth, delineates the Whistler Urban Containment Development Area to avoid sprawl, and includes a Climate Action and Energy chapter. Building on the 1993 OCP, the new OCP contains numerous policies that speak to the creation of complete, compact, energy efficient communities and we anticipate its adoption in 2020. The Energy Step Code was implemented as of January 1, 2019. The RMOW also continued implementation on the Community Energy and Climate Action Plan (CECAP), with quarterly updates, and continued public reporting to Council of annual Energy and GHG emissions.

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):

- Building and Lighting Actions
- Energy Generation Actions
- Greenspace Actions
- Planning Actions
- Solid Waste Actions
- Transportation Actions
- Water and Wastewater Actions

Other Climate Actions (PLEASE SPECIFY)

Don't know

Please specify 'Other Climate Actions'

The RMOW hired its first Climate Change Coordinator in June 2019. A priority project was the development of an updated Climate Action Strategy, planning and applying for funding to install 14 new EV chargers, assisting with Energy Step Code implementation, and community and staff outreach.

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):

New or upgraded energy-efficient lighting systems

New or upgraded energy-efficient heating systems

New or upgraded building envelope initiatives

Upgrades to amenities in recreation facilities

Studies related to building and/or lighting energy efficiency

Other (PLEASE SPECIFY)

Don't know

Please specify 'Other'

- All RMOW Streetlights converted to LED
- RMOW exterior building lighting converted to LED. Approximately 70% completion.
- Public Works Yard (PWY) bay lighting converted to T5 or LED, approx. 50%
- New energy efficient HVAC system at Public Safety Building (PSB)
- New energy efficient dehumidifier at Meadow Park Sports Centre (MSPC).
- PWY Bay roll up doors are designed to shut heat off when the doors open.
- MSPC hockey rink lights converted to LED
- Exterior lighting at MPSC converted to LED
- Facilities Construction Management team utilizes building automation systems at PSB, Whistler Public Library, Maurice Young Arts Centre, and Wastewater Treatment Plant to monitor HVAC loads and establish energy efficient temp/air settings. We also use that same automation to monitor the Village Breezeway heat trace consumption.

When it comes to corporate Energy Generation Actions, did your local government undertake any of the following in 2019 (PLEASE SELECT ALL THAT APPLY):

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

Please specify 'Other'

- The Cheakamus Crossing District Energy System (DES) is an ongoing heat recovery/heat reclamation project effort since 2009 to scavenge heat from the RMOW Waste Water Treatment Plant final effluent, to provide energy for building heat and hot water supplies to the Cheakamus Crossing development.
- Received a technical and financial feasibility study to develop solar photovoltaic panels at Meadow Park Sports Centre (MPSC) and reviewed this study in detail.
- Explored external funding opportunities for strategic RMOW corporate initiatives, with several projects identified, including a bio energy project to heat MPSC.

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

Please specify 'Other'

Continue to engage the Sea to Sky Invasive Species Council to monitor and manage priority invasive species in Whistler.

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)
- Strategic Plan (New or Updated)
- Other (PLEASE SPECIFY)
- Don't know

Please specify 'Other'

Began development of updated climate action plan building on the 2016 Community Energy and Climate Action Plan.

When it comes to corporate Solid Waste Actions, did your local government undertake any of the following 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
- 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
- Other (PLEASE SPECIFY)
- Don't know

Please specify 'Other'

- Created and hired for Solid Waste Coordinator position.
- Expansion of improved and streamlined recycling infrastructure in municipal facilities.
- Participated in the National Solid Waste Benchmarking Initiative.

When it comes to corporate Transportation Actions, did your local government undertake any of the following in 2019 (PLEASE SELECT ALL THAT APPLY):

- 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

Please specify 'Other'

- Two Rav4 Hybrids purchased for the fleet.
- Processes are ongoing to look at infrastructure upgrades to accommodate more charging stations throughout the municipality.
- Transit passes for staff as an option in our Recreation and Transportation Credit program (second annual)
- More secure bike parking available for RMOW staff and public at no cost in the Whistler Public Library underground lot by converting 2 parking spaces to a secure bike cage.
- Staff participated in Bike To Work Week; Commuter Challenge; Maytober challenge (<https://www.whistler.ca/services/transportation/maytober-transportation-challenge>)

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

Please specify 'Other'

- Once-Through Cooling Bylaw implemented: <https://www.whistler.ca/services/water-and-wastewater/water/once-through-cooling-bylaw>
- Investigation volumetric water pricing for the ICI sector
- Implemented Cross Connection Control Bylaw

As mentioned, a key part of the 2019 CARIP survey is to highlight and celebrate successful climate actions undertaken by local governments in British Columbia. This question provides local governments the opportunity to demonstrate leadership and innovative approaches to reduce corporate 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:

Creating a new position and hiring our first Climate Action Coordinator.

Corporate Action #2

All RMOW streetlights and 85% of Valley Trail lights converted to LED.

Corporate Action #3

New energy efficient dehumidifier at Meadow Park Sports Centre.

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” in corporate operations).

When it comes to community-wide climate action in 2019, did your local government undertake any of the following (PLEASE SELECT ALL THAT APPLY):

- Building and Lighting Actions
- Energy Generation Actions
- Greenspace Actions
- Planning Actions

- Solid Waste Actions
- Transportation Actions
- Water and Wastewater Actions
- Other Climate Actions (PLEASE SPECIFY)
- Don't know

Please specify 'Other Climate Actions'

Climate Action Coordinator outreach into community around buildings, Energy Step Code, etc.

When it comes to community-wide Building and Lighting Actions, did your local government undertake 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
- Incentives/rebate programs related to energy-efficient building or lighting
- Outreach, education or communication related to energy-efficient building or lighting
- Other (PLEASE SPECIFY)
- Don't know

Please specify 'Other'

- 85% of RMOW Valley Trail lights converted to LED.
- RMOW underground parking lot lighting converted to LED.
- Adopted Energy Step Code effective January 1, 2019: <https://www.whistler.ca/business/land-use-and-development/building/bc-energy-step-code>
- BC Efficiency program top ups provided: <https://www.whistler.ca/services/environmental-stewardship/energy-rebate-program>
- Continued to fund the Power Down to Save Up rebate program to encourage home energy assessments, as well as providing matching funding for the province's Better Homes BC energy efficiency incentives program.

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
- Heat recovery or heat reclamation projects
- Landfill gas capture/utilization projects
- Micro-hydro projects
- Studies or research related to energy generation
- Other (PLEASE SPECIFY)
- Don't know

Please specify 'Other'

- Ongoing delivery of Cheakamus Crossing neighbourhood District Energy System capturing heat from the Wastewater Treatment Plant.
- Initiated plans for the expansion of DES loop for potential Cheakamus Crossing Phase II lands.

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
- Greenspace restoration or maintenance
- Greenspace acquisition
- Invasive species management
- Plans or strategies related to greenspace
- Other (PLEASE SPECIFY)
- Don't know

Please specify 'Other'

- Continued support of the Cheakamus Community Forest carbon offset program. Both in terms of policy support as well as direct purchase commitments.
- Inclusion in the draft OCP of the Wildfire Protection, Protection of Riparian Ecosystems, and Protection of Sensitive Ecosystems Development Permit Areas.
- Habitat enhancement project around the wetland located in Cheakamus Crossing, enhancing roughly 700m² of riparian area.

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
- Other (PLEASE SPECIFY)
- Don't know

Please specify 'Other'

- New Climate Action Coordinator developed Climate Action Big Moves strategy in Q3-Q4 2019. To be launched in 2020.

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):

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

Please specify 'Other'

- Improved communications around what items are recyclable to reduce contamination.
- Annual Pitch in Day street clean up.
- Undertook a waste audit at the Whistler Transfer Station.
- Negotiated a new operational contract for the Whistler Composting Facility.

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
- Other (PLEASE SPECIFY)
- Don't know

Please specify 'Other'

- Expanded secure bike parking June 15th to Labour Day (added Saturdays in the Village and special events like Crankworx).
- More secure bike parking available for RMOW staff and public at no cost in the Library Underground lot by converting 2 parking spaces to a secure bike cage.
- Installed a parking stall counter at the Conference Centre that posts the number of stalls available outside the lot and on-line at whistler.ca/parking to improve efficiency.
- Added 2km of shared use Valley Trail and added small sections of Valley Trail at pinch points where opportunities arose due to other infrastructure projects (i.e. Nesters at Nancy Green).
- Constructed Valley Trail from Function to Alta Lake Road to support bike commuting.
- Gained approval for the Whistler High School Transit pass for all Whistler High School students.
- Introduced a new transit route – 10-Valley Express with expansion funding; the RMOW share of costs of this expansion is tied to revenues from parking fees in the day lots.
- Free weekend transit service from June 15th to Labour Day.
- Investigating solar lights for dark bus stops.
- Promoted and hired a community Bike to Work Week/Commuter Challenge Coordinator.
- Promoted the first annual Maytober Challenge: From May to October, the RMOW challenges residents to switch out one private passenger vehicle trip each week for a lower-carbon

transportation choice such as walking, transit, biking or carpooling to take action on our community's climate footprint.

- Developed the Transportation Advisory Group 2020-2021 Recommended Transportation Actions and implemented 2019 summer and winter transportation 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
- Outreach, education or communication related to water or wastewater
- Studies or research related to water or wastewater
- Plans or strategies related to water or wastewater
- Other (PLEASE SPECIFY)
- Don't know

Please specify 'Other'

- Continued stakeholder outreach to enhance public engagement, communications, and social marketing to optimize water conservation and emergency preparedness
- Continue to implement new potable water conservation bylaw.

As mentioned, a key part of the 2019 CARIP survey is to highlight and celebrate successful climate actions undertaken by local governments in British Columbia. This question provides local governments the opportunity to demonstrate leadership and innovative approaches to reduce community-wide 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:

Introduced a new direct transit route – 10-Valley Express – that takes a more direct route through the valley to speed up the commute and received strong uptake from community.

Community-Wide Action #2

Free transit passes approved for Whistler High School students

Community-Wide Action #3

Continued support of the Cheakamus Community Forest carbon offset program. Both in terms of policy support as well as direct purchase commitments.

2019 CLIMATE PREPAREDNESS AND ADAPTATION ACTION:

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 climate impacts that are most relevant to your local government (PLEASE SELECT ALL THAT APPLY):

- Increased temperatures increasing wildfire activity
- Extreme weather events contributing to urban and overland flooding
- Changes to temperature and precipitation causing seasonal drought
- Warmer winter temperatures reducing snowpack
- Sea level rise and storms causing coastal flooding and/or erosion
- Other (PLEASE SPECIFY)
- Don't know

Please specify 'Other'

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)

- Emergency response planning
- Asset management
- Infrastructure upgrades
- Public education and awareness
- Strategic and financial planning
- Risk and vulnerability assessments
- Risk reduction strategies

Official Community Plan policy changes

Other (PLEASE SPECIFY)

Don't know

Please specify 'Other'

In 2019, did your local government partner 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

Community Emergency Preparedness Fund (UBCM)

Federation of Canadian Municipalities

Fraser Basin Council

Pacific Institute for Climate Solutions (UVIC)

Other (PLEASE SPECIFY)

Don't know

Please specify 'Other'

As mentioned, a key part of the 2019 CARIP survey is to highlight and celebrate successful climate actions undertaken by local governments in British Columbia. This question provides local governments the opportunity to demonstrate leadership and innovative approaches to adapting to a changing climate.

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

Continued implementation of the RMOW's Wildfire Protection Plan through significant fuel thinning projects and a robust FireSmart program for private homeowners.

Adaptation Action #2

Continued to hire the Sea to Sky Invasive Species Council to monitor and manage priority invasive species in Whistler.

Adaptation Action #3

Studied flood management implications of climate change and identified actions.

Section 3: 2019 Carbon Neutral Reporting

Local governments are required to report on their progress in achieving their corporate carbon neutral goal under the B.C. Climate Action Charter. Working with B.C. 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.

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, specifically the Workbook and Becoming Carbon Neutral: A Guide for Local Governments in British Columbia.

Please note: As a result of the BC Recycling Regulation, local governments are no longer required to account for GHG emissions from vehicles, equipment and machinery required for the collection, transportation and diversion of packaging and printed paper, in their annual Climate Action Revenue Incentive Program (CARIP) reports.

2019 CARBON EMISSIONS

Did your local government measure corporate GHG emissions for 2019?

- 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	1609
Contracted Services	751

TOTAL A - CORPORATE GHG EMISSIONS (DIRECT + CONTRACTED) FOR 2019:

TOTAL A - CORPORATE GHG EMISSIONS (DIRECT + CONTRACTED) FOR 2019:

2360

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*.

TOTAL B - REDUCTIONS FROM ALL OPTION 1 PROJECTS FOR 2019:

TOTAL B - REDUCTIONS FROM ALL OPTION 1 PROJECTS FOR 2019:

0

TOTAL C - REDUCTIONS FROM ALL OPTION 2 PROJECTS FOR 2019:

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.	Cheakamus Community Forest	Enhanced Forest Management	2360

TOTAL D - OFFSETS PURCHASED FOR 2019:

TOTAL D - OFFSETS PURCHASED FOR 2019:

2360

TOTAL REDUCTIONS AND OFFSETS FOR 2019 (Total B+C+D):

TOTAL REDUCTIONS AND OFFSETS FOR 2019 (Total B+C+D):

2360

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))

CORPORATE GHG EMISSIONS BALANCE FOR 2019 (Total A – (B+C+D))

0

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

TOTAL E - BALANCE OF REDUCTIONS ELIGIBLE FOR CARRY OVER TO NEXT YEAR

TOTAL E - BALANCE OF REDUCTIONS ELIGIBLE FOR CARRY OVER TO NEXT YEAR

0

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 Committee 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
- Level 2 – Measuring GHG Emissions
- Level 3 – Accelerating Progress on Charter Commitments
- Level 4 - Achievement of Carbon Neutrality
- Don't know

Does your local government set aside funds in a climate reserve fund or similar?

- Yes
- No
- Don't know