

2019 Climate Action Revenue Incentive Program (CARIP) Survey

2019 Climate Action Revenue Incentive Program (CARIP) Survey Overview

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.

Once the survey is complete, please download a copy of your responses (you will be given the download link at the end of the survey).

SURVEY CONTENT:

1. **Section 1: Local Government Information**

2. **Section 2: Narrative Focus** 2019 Corporate Climate Action 2019 Community-wide Climate Action 2019 Climate Change Adaptation Action

3. **Section 3: 2019 Carbon Neutral Reporting**

Section 1 – Local Government Information

Name of Local Government:*

- 100 Mile House, District of
- Abbotsford, City of
- Alert Bay, The Corporation of the Village of
- Anmore, Village of
- Armstrong, City of
- Ashcroft, The Corporation of the Village of
- Barriere, District of
- Belcarra, Village of
- Bowen Island, Municipality
- Burnaby, City of
- Burns Lake, The Corporation of the Village of
- Cache Creek, Village of
- Campbell River, City of
- Canal Flats, Village of
- Capital Regional District
- Cariboo Regional District
- Castlegar, City of
- Central Coast Regional District
- Central Saanich, The Corporation of the District of
- Chase, Village of
- Chetwynd, District
- Chilliwack, City of
- Clearwater, District of
- Clinton, Village of
- Coldstream, The Corporation of the District of
- Columbia Shuswap Regional District
- Colwood, City of
- Comox Valley Regional District
- Comox, Town of
- Coquitlam, City of
- Courtenay, The Corporation of the City of
- Cowichan Valley Regional District
- Cranbrook, The Corporation of the City of
- Creston, Town of
- Cumberland, The Corporation of the Village of
- Dawson Creek, The Corporation of the City of
- Delta, The Corporation of
- Duncan, The Corporation of the City of
- Elkford, District of
- Enderby, The Corporation of the City of
- Esquimalt, The Corporation of the Township of

- Fernie, The Corporation of the City of
- Fort St. James, District of
- Fort St. John, City of
- Fraser Lake, Village of
- Fraser Valley Regional District
- Fruitvale, The Corporation of the Village of
- Gibsons, Town of
- Gold River, Village of
- Golden, Town of
- Grand Forks, The Corporation of the City of
- Granisle, Village of
- Greenwood, The Corporation of the City of
- Harrison Hot Springs, Village of
- Hazelton, The Corporation of the Village of
- Highlands, District of
- Hope, District of
- Houston, District of
- Hudson's Hope, District of
- Invermere, District of
- Islands Trust
- Kamloops, City of
- Kaslo, Village of
- Kelowna, City of
- Kent, The Corporation of the District of
- Keremeos, The Corporation of the Village of
- Kimberley, City of
- Kitimat, District of
- Ladysmith, Town of
- Lake Country, District of
- Lake Cowichan, Town of
- Langford, City of
- Langley, City of
- Langley, The Corporation of the Township of
- Lantzville, District of
- Lillooet, District of
- Lions Bay, Village of
- Logan Lake, District of
- Lumby, The Corporation of the Village of
- Lytton, The Corporation of the Village of
- Mackenzie, District of
- Maple Ridge, The Corporation of the District of
- Masset, Village of
- McBride, The Corporation of the Village of

- () Merritt, City of
- () Metchosin, District of
- () Midway, Village of
- () Mission, District of
- () Montrose, The Corporation of the Village of
- () Nakusp, Village of
- () Nanaimo, City of
- () Nelson, The Corporation of the City of
- () New Denver, The Corporation of the Village of
- () New Hazelton, District of
- () New Westminster, The Corporation of the City of
- () North Coast Regional District
- () North Cowichan, The Corporation of the District of
- () North Saanich, District of
- () North Vancouver, The Corporation of the City of
- () North Vancouver, The Corporation of the District of
- () Northern Rockies Regional Municipality
- () Oak Bay, The Corporation of the District of
- () Oliver, Town of
- () Osoyoos, Town of
- () Parksville, City of
- () Peace River Regional District
- () Peachland, The Corporation of the District of
- () Pemberton, Village of
- () Penticton, The Corporation of the City of
- () Pitt Meadows, City of
- () Port Alberni, City of
- () Port Alice, City of
- () Port Clements, Village of
- () Port Coquitlam, The Corporation of the City of
- () Port Edward, District of
- () Port Hardy, District of
- () Port McNeill, Town of
- () Port Moody, City of
- () Pouce Coupe, The Corporation of the Village of
- () Powell River, City of
- () Prince George, City of
- () Prince Rupert, City of
- () Princeton, Town of
- () qathet Regional District
- () Qualicum Beach, Town of
- () Queen Charlotte, Village of
- () Quesnel, City of

- () Radium Hot Springs, Village of
- () Regional District of Alberni-Clayoquot
- () Regional District of Bulkley-Nechako
- () Regional District of Central Kootenay
- () Regional District of Central Okanagan
- () Regional District of East Kootenay
- () Regional District of Fraser-Fort George
- () Regional District of Kitimat-Stikine
- () Regional District of Kootenay Boundary
- () Regional District of Metro Vancouver
- () Regional District of Mount Waddington
- () Regional District of Nanaimo
- () Regional District of North Okanagan
- () Regional District of Okanagan-Similkameen
- () Revelstoke, City of
- () Richmond, City of
- () Rossland, The Corporation of the City of
- () Saanich, The Corporation of the District of
- () Salmo, The Corporation of the Village of
- () Salmon Arm, City of
- () Sayward, Village of
- () Sechelt, District of
- () Sicamous, District of
- () Sidney, Town of
- () Silverton, The Corporation of the Village of
- () Slocan, Village of
- () Smithers, Town of
- () Sooke, District of
- () Spallumcheen, The Corporation of the Township of
- () Sparwood, District of
- () Squamish, District of
- () Squamish-Lillooet Regional District
- () Stewart, District of
- () Strathcona Regional District
- () Summerland, The Corporation of the District of
- () Sun Peaks, Mountain Resort Municipality
- () Sunshine Coast Regional District
- () Surrey, City of
- () Tahsis, Village of
- () Taylor, District of
- () Telkwa, The Corporation of the Village of
- () Terrace, City of
- () Thompson-Nicola Regional District

- Tofino, District of
- Trail, City of
- Tumbler Ridge, District of
- Ucluelet, District of
- Valemount, Village of
- Vancouver, City of
- Vanderhoof, District of
- Vernon, The Corporation of the City of
- Victoria, The Corporation of the City of
- View Royal, Town of
- Warfield, The Corporation of the Village of
- Wells, District of
- West Kelowna, City of
- West Vancouver, The Corporation of the District of
- Whistler, Resort Municipality of
- White Rock, The Corporation of the City of
- Williams Lake, City of

Name of Regional District:*

- Alberni-Clayoquot (Regional District)
- Bulkley-Nechako (Regional District)
- Capital (Regional District)
- Cariboo (Regional District)
- Central Coast (Regional District)
- Central Kootenay (Regional District)
- Central Okanagan (Regional District)
- Columbia Shuswap (Regional District)
- Comox Valley (Regional District)
- Cowichan Valley (Regional District)
- East Kootenay (Regional District)
- Fraser Valley (Regional District)
- Fraser-Fort George (Regional District)
- Islands Trust (Islands Trust)
- Kitimat-Stikine (Regional District)
- Kootenay Boundary (Regional District)
- Metro Vancouver (Regional District)
- Mount Waddington (Regional District)
- Nanaimo (Regional District)
- North Coast (Regional District)
- North Okanagan (Regional District)
- Okanagan-Similkameen (Regional District)
- Peace River (Regional District)
- qathet (Regional District)

- Squamish-Lillooet (Regional District)
- Strathcona (Regional District)
- Sunshine Coast (Regional District)
- Thompson-Nicola (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+

Submitted by:*

Name

Hunter Wey

Position

Controller

Email Address

hwey@grandforks.ca

Phone Number

2504428266

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?

Replacement of high pressure sodium with LED streetlights
Completed solar stage installation in City Park
Conducted Library Building Schematic Design Energy Model study

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'

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'

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'

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'

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'

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'

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:

Commenced LED Street lights conversion program

Corporate Action #2

Installed a 10kW grid-tied solar installation in City Park

Corporate Action #3

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'

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'

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'

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'

Implemented usage-based water billing for residential customers

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:

Community-Wide Action #2

Community-Wide Action #3

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 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
- 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:

Substantial completion of floodplain mapping, risk assessment and risk management program which commenced in 2018.

Adaptation Action #2

Constructed approximately 250 lineal meters of Kettle River bank armouring and revetment.

Adaptation Action #3

Commenced land acquisition process for the construction of flood protection works and re-establishment of natural flood plain in the North Ruckle residential area.

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	344
Contracted Services	6

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

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

350

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:

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
1.		
2.		
3.		
4.		
5.		
6.		

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.			
2.			
3.			
4.			
5.			
6.			

TOTAL D - OFFSETS PURCHASED FOR 2019:

TOTAL D - OFFSETS PURCHASED FOR 2019: 0

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

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))

CORPORATE GHG EMISSIONS BALANCE FOR 2019 (Total A – (B+C+D)) 350

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

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

Related to Level 3 recognition, if applicable, please identify any new or ongoing corporate or community-wide GHG reduction projects (other than an Option 1 or Option 2 project) undertaken by your local government that reflects a significant investment of time and/or financial resources and is intended to result in significant GHG reductions:

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

- Yes
- No
- Don't know