

# CITY OF ABBOTSFORD

## Climate Action Revenue Incentive Program (CARIP) Public Report for 2019



MAY 2020



# 2019 Climate Action Revenue Incentive Program (CARIP) Survey

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## 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 Survey by June 1, 2020.

Detailed survey instructions, FAQs and definitions can be found in the [2019 CARIP Program Guide](#).

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:

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:

City of Abbotsford

Name of Regional District:

Fraser Valley 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 City Continued work on “Plan 200K”, an initiative that looks forward to the City reaching a population of 200,000 while considering the impacts of different development and land use scenarios on GHG emissions. This initiative takes improvements into account with respect to building energy efficiencies, vehicle efficiencies, solid waste diversion rates, and currently planned transportation infrastructure. Further to community planning efforts, the City also enacted Step 1 of the BC Energy Step Code in Part 9 buildings.

### 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):

N/A

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 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'

Completed a pilot project which provided waste sorting capability and how-to sort education at City and community events.

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'

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:

Corporate Action #1

Adopted the Green Fleet Strategy, a guiding document for fleet renewal and replacement planning. It establishes a policy framework for preferred alternate fuel technologies and environmentally conscious practices, with the objective of realizing GHG reductions within the corporate fleet.

Corporate Action #2

Added capacity to the Environmental Services Division by entering in funding partnerships with BC Hydro and FortisBC. The team includes a dedicated resource to measure and reduce the City's GHG emissions.

Corporate Action #3

Continued implementing Lighting retrofits across multiple City facilities.

### 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 Energy Generation Actions, did your local government undertake any of the following in 2019 (PLEASE SELECT ALL THAT APPLY):

N/A

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 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'



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'

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'



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'

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 #1

Completed construction on active transportation project (walking and cycling), and restructured the City's transit service to provide more service hours better reliability on the busiest routes. Concurrently, completed 20 crosswalk and bus stop upgrades to enhance walkability and transit access in the community.

Community-Wide Action #2

Continued delivering waste community clean up events with active participation of volunteer groups. Initiatives included: adopt-a-park, adopt-a-street, adopt-a-trail, and Community Clean Up week.



### Community-Wide Action #3

Launched the Waterwise Portal for residents and business owners to view their water consumption online. Concurrently, the City continued to work with residents and business owners to identify and resolve water leaks. In 2019, 2,683 water leak notifications were processed (based on 10L/hr over 3 days) and approximately 1,281 final meter reads were sent.

### 2019 CLIMATE PREPAREDNESS AND ADAPTATION ACTION:

This section of the 2019 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'

University of the Fraser Valley

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:

#### Adaptation Action #1

##### Fraser Valley Adaptation Strategy – Climate Action Initiative (BC Agriculture and Food)

The Fraser Valley Adaptation Strategies planning process (“Plan”) was initiated by the BC Agriculture and Food Climate Action Initiative (CAI). Strategies and actions that will enhance agriculture’s ability to adapt to climate change are the focus of the plan. The planning process involved input from Fraser Valley Regional District, local governments, Ministry of Agriculture and a number of agricultural organizations. City of Abbotsford was part of the working group. The Plan was completed in March 2015 and the near-term priority actions are now being implemented. In 2019, the following projects were commissioned:

- Farm level Flood Mitigation, Preparedness and Recovery Toolkit
- Agricultural Water Supply Assessment
- State of Practices and Technologies Assessment for Management Extreme Heat Impacts

#### Adaptation Action #2

In June 2018, the City received funding for the “Nooksack River Overflow Flood Mitigation Plan” from the Provincial/Federal National Disaster Mitigation Program, to reduce the risks and impacts of flooding on Canadians. The project will use specialized software to estimate flood damage under a 100-year and 200-year event. The estimate will help the development of mitigation options to reduce the risk of flooding in the area, and enable further discussion with stakeholders in the United States related to cross-border flooding issues. The work was initiated in 2019, and will complete in 2020.

### 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 (WILL BE UPDATED) and Becoming Carbon Neutral: A Guide for Local Governments in British Columbia (WILL BE UPDATED).



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?

- 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 (tCO<sub>2</sub>e)) from:

Service Delivery Type	2019 Corporate GHG Emissions
Services Delivered Directly by your Local Government	5,436
Contracted Services	317

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

5,753

## 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 (tCO<sub>2</sub>e)) being claimed from any of the following Option 1 GHG Reduction Projects:

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

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 (tCO<sub>2</sub>e)) being claimed from Option 2 GHG Reduction Projects:

	Names of Option 2 GHG Reduction Projects	2019 GHG Emissions Reductions
1.		Section N/A
2.		
3.		
4.		
5.		
6.		

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 (tCO<sub>2</sub>e)) from an offset provider for the 2019 reporting year:

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

TOTAL D - OFFSETS PURCHASED FOR 2019:

0

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))

5,753

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.	N/A		N/A
2.			
3.			
4.			
5.			
6.			

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:

In 2019, the City added capacity to the Environmental Services Division, comprised of 5 FTE. The team is responsible for leading the planning and delivery of solid waste services, source control, climate adaptation and mitigation initiatives.

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

- Yes
- No
- Don't know