



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

A summary of community and corporate actions that help reduce greenhouse gas emissions

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The City of Quesnel has completed the 2019 Climate Action Revenue Incentive Program (CARIP) Public Report as required by the Province of BC. The CARIP report summarizes actions taken in 2019 and proposed for 2020 to reduce corporate and community-wide energy consumption and greenhouse gas emissions (GHG) and reports on progress towards achieving carbon neutrality.

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?

Updated the OCP to reflect new emission reduction targets for the City corporate operations and also the community as a whole. New targets were approved by the Quesnel City Council October 4th 2019.

Quesnel introduced a new bylaw to allow for greater housing density within the City by allowing for secondary suites and carriage houses.

Quesnel hired a landfill manager to investigate options for methane reductions, increase recycling rates and seek ways to remove organics from the waste stream.

The City continues to support local food production and our Food Hub has reached its final stages of planning, has been partially funded and is hoped to be operational within a year.

Quesnel hired a carbon Review Coordinator to establish new emission reduction targets and develop a climate action strategy for the City. The position is funded through the Federation and Canadian Municipalities and the City of Quesnel.

The City started discussing the development of a District Energy system with West Fraser to utilize waste heat streams from one of the world's largest mills - situated 2.5 km from the downtown core.

The Quesnel Clean Air Roundtable has been reinvigorated through the leadership of the Baker Creek Enhancement Society. The co-benefits of emission reductions on health, local air quality and climate change are promoted here.

Participated in a BCIT pilot program called Ecocity to measure the ecological footprint in addition to a carbon footprint for our region and City. Quesnel was one of only six BC municipalities to collect the required data and complete the online assessment tool.



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)

Please specify 'Other Climate Actions'

Fire reduction planning and forest interface management. Adaptation strategy for the increase forest fire activity in the region.

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



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

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)

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



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)

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

The City of Quesnel hired a Climate Change staff person to oversee its progress on taking climate action. The Carbon Review Coordinator position is co-funded between the City and the Federation of Canadian Municipalities (FCM) through the Municipalities for Climate Innovation Program (MCIP). The goal of this position is to 1) Review climate actions and initiatives already undertaken by the city, 2) Scope possible further climate actions, 3) Suggest emissions reduction targets based on the climate change review and have them approved by City Council, 4) Develop a climate action plan to meet the new targets approved, 5) Engage the public for input into the climate action plan, 6) Fund and implement the climate action plan for the City of Quesnel.

Corporate Action #2

The Quesnel City Council on October 4th, 2019 approved new emissions reduction targets set for City corporate operations. The City will strive to have a reduction of emissions of 3.5% annually for the next three years (2020, 2021, 2022) with a review and decision on future targets planned for 2022. The City Council also adopted emission reduction targets in line with those set by the Province of British Columbia for the community of Quesnel: Reduce emissions from 2007 levels 40% by 2030, 60% by 2040, and 80% by 2050.



Corporate Action #3

Quesnel City Council has approved funding for telematics/GPS systems on a significant portion of the fleet. As identified annually in Quesnel's carbon footprint, mobile fuel usage is the greatest source of emissions from City corporate operations so this effort to track and reduce fuel use could have a significant impact. These vehicle data systems can result in operational savings greater than 20% along with significant emission reductions from saved fuel. Quesnel will track the performance of these systems and if the savings are significant will seek to fund and install telematics on all City vehicles.

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

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



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

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

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



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

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

The OCP was updated in 2019 to include Accessory Dwelling Units. These units can take the form of secondary suites, carriage homes and secondary dwellings. These units will allow for greater density in already developed neighborhoods avoiding further virgin land development. These units will also help housing affordability through the added units in a constrained rental market. The City of Quesnel continues to support the densification of downtown and encourages residential-commercial mixed use in the downtown core including two new multi-unit residential units.

Community-Wide Action #2

The City of Quesnel participated in a BCIT EcoCity Footprint Tool pilot project that included data from our entire community. The project is intended to show an ecological footprint from actions and consumption as well as generate a broader footprint than the annual one submitted to the Province. The project allows for comparisons of actions and provides tips to get to a "one earth" consumption rate. The City thanks the BCIT EcoCity Footprint Tool project, specifically lead researcher Dr. Jennie Moore, for inviting Quesnel as only one of six BC municipalities and the only one representing northern living.



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

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)

Please specify 'Other'

Forest fire prevention work - interface logging.



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)

Please specify 'Other'

BCIT EcoCity Footprint Tool Project pilot participant

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

The Forest Initiatives Program was created to address the growing threat of wildfire in our region and help protect communities into the future of climate change. The program has two main programs to deal with adapting to increasing numbers and size of forest fires: 1) Encouraging home and business owners to FireSmart their properties. 2) Implementing our community Wildfire Protection Plan (CWPP). The CWPP has identified 34 fuel treatment units. It has starting with areas within the 2km wildland urban interface and will continue to work outwards managing interface to best protect the community from wildfire.

Adaptation Action #2

The City of Quesnel Development Department undertook a floodmap planning process to inform future commercial and residential development as well as the future planned waterfront area. The City obtained a flood mapping grant from the Community Emergency Preparedness Fund to undertake much



of this work. There was considerable discussion surrounding the increased flow rates and flooding incidents predicted as a result of climate change and the mapping grant helped to inform our planning process. The City Council was called upon to make a decision on expected future flooding based on the best information that could be provided. As a result of climate change predictions on water flows the Council chose to be prudent in their floodmap planning and adapt plans to account for climate change's impacts on our main two rivers.

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.

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 (tCO₂e)) from:

Service Delivery Type	2019 Corporate GHG Emissions
Services Delivered Directly by your Local Government	1188.23 tCO ₂ e
Contracted Services	42.64 tCO ₂ e

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

1230.87 tCO₂e



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

1230.87 tCO₂e

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