



# **Climate Action Revenue Incentive (CARIP) Public Report for 2018**

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

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The City of Quesnel has completed the 2018 Climate Action Revenue Incentive Program (CARIP) Public Report as required by the Province of BC. The CARIP report summarizes actions taken in 2018 and proposed for 2019 to reduce corporate and community-wide energy consumption and greenhouse gas emissions (GHG) and reports on progress towards achieving carbon neutrality.

## Broad Planning Actions

Broad Planning refers to high level planning that sets the stage for GHG emissions reductions, including plans such as Official Community Plans, Integrated Community Sustainability Plans, Climate Action Plans or Community Energy Emissions Plans. Land use planning that focuses on Smart Growth principles (compact, complete, connected, centred) plays an especially important role in energy and GHG reduction.

Community-Wide Actions Taken in 2018	
	Continue to encourage development consistent with Official Community Plan (OCP) objectives.
	Continue to support densification of downtown, encourage residential-commercial mixed use in the downtown core including incenting two new multi-unit residential units.
	Continue identification of improvement to waste streams.
	Continue to support local food production programs such as community gardens and regional agriculture centre.
Community-Wide Actions Proposed for 2019	
	Hiring a Climate Action Staff person to review and consolidate plans, actions and objectives including reviewing emission reduction targets.
	Promote community emission reduction initiatives to public.

Corporate Actions Taken in 2018	
	Continue to encourage more local procurement (less shipping of goods).
	Continue to investigate options for GHG emission reduction projects to move towards carbon neutrality.
Corporate Actions Proposed for 2019	
	Utilize Climate Action Staff to review and identify GHG emission reduction actions

Other Actions Taken in 2018	
	Applied for funding from FCM for a Climate Action Staff person.

Broad Planning		
What is (are) your current GHG reduction target(s)?	<b>Work towards meeting a 33% reduction of greenhouse gases below 2007 levels by 2020 and 80% by 2050.</b>	
Are you familiar with your community's community energy and emissions inventory (e.g. CEEI or another inventory)?		Yes
What plans, policies or guidelines govern the implementation of climate mitigation in your community?		
• Community Energy and Emissions (CEE) Plan		No
• Community- Wide Climate Action Plan		No
• Integrated Community Sustainability Plan		Yes
• Official Community Plan (OCP)		Yes
• Regional Growth Strategy (RGS)		No
• Do not have a plan		No
• Other:		No
Does your local government have a corporate GHG reduction plan?		No



## Building and Lighting Actions

Low-carbon buildings use the minimum amount of energy needed to provide comfort and safety for their inhabitants and tap into renewable energy sources for heating, cooling and power. These buildings can save money, especially when calculated over the long term. This category also includes reductions realized from energy efficient street lights and lights in parks or other public spaces.

Community-Wide Actions Taken in 2018	
	Draft a community Energy and Emissions Plan for Council consideration.
Community-Wide Actions Proposed for 2019	

Corporate Actions Taken in 2018	
	LED Lighting upgrades at the RCMP building and City Hall.
	Replace all thermostats in City Hall to control the heat pumps through a DDC system that can be monitored through a central computer.
Corporate Actions Proposed for 2019	
	Utilize Climate Action Staff to review and identify building and lighting energy/emissions actions
	Condensing boilers for RCMP building

Building and Lighting	
The Province has committed to taking incremental steps to increase energy-efficiency requirements in the BC Building Code to make buildings net-zero energy ready by 2032. The BC Energy Step Code--a part of the BC Building Code--supports that effort	
Is your local government aware of the BC Energy Step Code?	Yes
Is your local government implementing the BC Energy Step Code?	No

## Energy Generation Actions

A transition to renewable or low-emission energy sources for heating, cooling and power supports large, long-term GHG emissions reductions. Renewable energy including waste heat recovery (e.g. from biogas and biomass), geo-exchange, micro hydroelectric, solar thermal and solar photovoltaic, heat pumps, tidal, wave, and wind energy can be implemented at different scales, e.g. in individual homes, or integrated across neighbourhoods through district energy or co-generation systems.

Community-Wide Actions Taken in 2018	
	Promote solar-ready construction through building permit process
Community-Wide Actions Proposed for 2019	
	Continue to promote solar ready construction through the building permit process.
	Utilize Climate Action Staff to identify feasible energy generation actions.



Energy Generation	
Is your local government developing, or constructing: <ul style="list-style-type: none"><li>• A district energy system</li><li>• A renewable energy system</li></ul>	No No
Is your local government operating: <ul style="list-style-type: none"><li>• A district energy system</li><li>• A renewable energy system</li></ul>	No No
Is your local government connected to a district energy system that is operated by another energy provider?	No
Are you aware of the Integrated Resource Recovery guidance page on the <a href="#">BC Climate Action Toolkit</a> ?	No
Are you familiar with the 2017 " <a href="#">List of Funding Opportunities for Clean Energy Projects Led by First Nations and Local Governments</a> "?	No

## Greenspace Actions

Greenspace/Natural Resource Protection refers to the creation of parks and greenways, boulevards, community forests, urban agriculture, riparian areas, gardens, recreation/school sites, and other green spaces, such as remediated brownfield/contaminated sites as well as the protection of wetlands, waterways and other naturally occurring features.

Community-Wide Actions Taken in 2018	
	Continue enforcement of the Quesnel Tree Protections Bylaw in land stability, agriculture and industrial zones.
	Continue to protect riparian areas through zoning and regulations, and through a Riparian Area Development Permit.
	Continue to dedicate Public Works staff to maintain parks and green space and place/replace vegetation.
	Continue to work to retain natural vegetation in development proposals
	In upgrading Uplands Park, resurface parts of the playground with recycled rubber from used tires.
Community-Wide Actions Proposed for 2019	
	Continue enforcement of the Quesnel Tree Protections Bylaw in land stability, agriculture and industrial zones.
	Continue to protect riparian areas through zoning and regulations, and through a Riparian Area Development Permit.
	Continue to dedicate Public Works staff to maintain parks and green space and place/replace vegetation.
	Continue to work to retain natural vegetation in development proposals
Corporate Actions Taken in 2018	
	Continue to work towards actions set out in the City of Quesnel Parks, Green Spaces and Outdoor Recreation Master Plan.
	Continue to work towards feasibility of a community forest.



<b>Corporate Actions Proposed for 2019</b>	
Utilize Climate Action Staff to review and identify Greenspace actions and plans	

<b>Greenspace</b>	
Does your local government have urban forest policies, plans or programs?	<b>Yes</b>
Does your local government have policies, plans or programs to support local food production?	<b>Yes</b>

## Solid Waste Actions

Reducing, reusing, recycling, recovering and managing the disposal of the residual solid waste minimizes environmental impacts and supports sustainable environmental management, greenhouse gas reductions, and improved air and water quality.

<b>Community-Wide Actions Taken in 2018</b>	
Continue identification of improvements to community waste streams.	
Continue to place attention on diverting recycling from entering the landfill.	
Renew contract with Baker Creek Enhancement Society to further educate the public on recycling.	
Continue to promote the use of backyard composting, by helping to subsidize the cost of the composters.	
Monitor recyclable volumes following MMBC curbside collection.	
Hire consulting firm to review our landfill and recycling processes and provide recommendations to extend life of landfill and improve recycling program.	
<b>Community-Wide Actions Proposed for 2019</b>	
Climate Action Staff to review Landfill Management Plan and provide recommendations for policy and actions.	

<b>Corporate Actions Taken in 2018</b>	
Continue to identify improvements to corporate waste streams which can be eliminated, reduced or recycled.	
Continue to divert recyclable materials from landfill to recycling programs.	
Continue engagement of staff in moving towards a paperless workplace by reducing paper usage.	
Continue to only have bi-weekly garbage collection to encourage waste reduction.	
Continue to have the landfill closed on Monday's to encourage waste reduction.	
Continue to restrict statutory holidays that the landfill is open to encourage waste reduction.	
<b>Corporate Actions Proposed for 2019</b>	
Complete Solid Waste Strategic Review	
Conduct waste audit at the landfill to determine sources of waste.	
Hire Eco Ambassadors to help educate on reduce, reuse, recycle options	
Utilize Climate Action Staff to review and identify solid waste actions	

<b>Solid Waste</b>
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Does your local government have construction and demolition waste reduction policies, plans or programs?	No
Does your local government have organics reduction/diversion policies, plans or programs?	Yes

## Transportation Actions

Transportation actions that increase transportation system efficiency, emphasize the movement of people and goods, and give priority to more efficient modes, e.g. walking, cycling, ridesharing, and public transit, can contribute to reductions in greenhouse gas emissions and more livable communities.

Community -Wide Actions Taken in 2018	
Yes	Allow for waived transit on general voting day for the municipal election this year.
Yes	Continue to encourage transit use.
Yes	Continue to assess ways to improve accessibility and use of transit system.
	Implement actions from the Active Transportation Plan to improve active transportation in the community.
	Implement the pedestrian friendly design
Yes	Continue to encourage anti-idling policies.
	Implement actions from the Active Transportation Plan to improve active transportation in the community.
Complete	Engage the public in planning discussions for the redevelopment of Reid Street.
	Complete a 'Bike Blitz' by introducing 'Share the Road' signs and "Sharrows" throughout the community to promote and create awareness of cyclists on the road.
Complete	Create a paved trail at Lebourdais Park to improve access.
Yes	Improve transit service by implementing recommendation made by BC Transit to expand service to include weekday evenings. Pilot program to run March-April 2017, and full implementation to begin in September 2017.
Complete	Sidewalk extension on Front Street to Gordon Avenue.
Community-Wide Actions Proposed for 2019	
	Proposed trail from West Fraser Timber Park to Rec Center
	Implementation of NextRide Technology in Q3.

Corporate Actions Taken in 2018	
Ongoing	Public Works to conduct a review of fleet which will include green initiatives and fleet management.
	Promote bike to work week
Yes	Continue to encourage the use of local transit.
Yes	Continue to enforce anti-idling policy for City vehicles.
	Continue to promote alternative methods of transportation.
Yes	UPass to begin being implemented in September 2017.
Yes	Continue to encourage the use of local transit.
Yes	Implement recommendations from BC Transit's Service Review of Quesnel's transit system, including expanding service to include new weekday evening service.



Yes	BC Transit completed an update to the Service Review of Quesnel's transit system.
<b>Corporate Actions Proposed for 2019</b>	
	Implementation of a Taxi Supplement Program
	Utilize Climate Action Staff to review and identify transportation actions

<b>Other Actions Taken in 2018</b>	
	Connector trail under Baker Creek bridge on Anderson Dr. completed in 2018

<b>Transportation</b>	
Does your local government have policies, plans or programs to support: <ul style="list-style-type: none"> <li>• Walking</li> <li>• Cycling</li> <li>• Transit Use</li> <li>• Electric Vehicle Use</li> <li>• Other (please specify)</li> </ul>	Yes Yes Yes Yes No
Does your local government have a transportation demand management (TDM) strategy (e.g. to reduce single-vehicle occupancy trips, increase travel options, provide incentives to encourage individuals to modify travel behavior)?	No
Does your local government integrate its transportation and land use planning?	No

## Water and Wastewater Actions

Managing and reducing water consumption and wastewater is an important aspect of developing a sustainable built environment that supports healthy communities, protects ecological integrity, and reduces greenhouse gas emissions.

<b>Community-Wide Actions Taken in 2018</b>	
	Continue to have a Bylaw of the Month during summer months to communicate sprinkling restrictions.
	Continue to require water conservation for lawn sprinkling practices during the summer months.
	Continue to promote water conservation through various mediums.
<b>Community-Wide Actions Proposed for 2019</b>	
	Continue to have a Bylaw of the Month during summer months to communicate sprinkling restrictions.
	Continue to require water conservation for lawn sprinkling practices during the summer months.
	Continue to promote water conservation through various mediums.

<b>Corporate Actions Taken in 2018</b>	
	Continue another phase of leak detection program.
	Continue to promote water conservation through various mediums.
	Continue to implement water conservation lawn sprinkling practices.
	Utilize newer more electrically efficient water wells before older inefficient wells operate through system control programming.
<b>Corporate Actions Proposed for 2019</b>	
	Continue another phase of leak detection program.
	Continue to promote water conservation through various mediums.



	Continue to implement water conservation lawn sprinkling practices.
	Utilize newer more electrically efficient water wells before older inefficient wells operate through system control programming.
	Utilize Climate Action Staff to review and identify water and wastewater actions

Water Conservation	
Does your local government have water conservation policies, plans or programs?	Yes

## Climate Change Adaptation Actions

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 THREE climate impacts that are most relevant to your Local Government.	
<ul style="list-style-type: none"> <li>Warmer winter temperatures reducing snowpack</li> <li>Changes to temperature and precipitation causing seasonal drought</li> <li>Increased temperatures increasing wildfire activity</li> </ul>	
Other (please specify):	
In 2018 has your local government addressed the impacts of a changing climate using any of the following?	
Risk and Vulnerability Assessments	Yes
Risk Reduction Strategies	No
Emergency Response Planning	Yes
Asset Management	Yes
Natural/Eco Asset Management Strategies	Yes
Infrastructure Upgrades (e.g. stormwater system upgrades)	Yes
Beach Nourishment Projects	No
Economic Diversification Initiatives	Yes
Strategic and Financial Planning	Yes
Cross-Department Working Groups	No
Official Community Plan Policy Changes	No
Changes to Zoning and other Bylaws and Regulations	No
Incentives for Property Owners (e.g. reducing storm water run-off)	No
Public Education and Awareness	No
Research	No
Mapping	No
Partnerships	No
Other (please specify):	

Climate Change Adaptation Actions Taken in 2018	
Please elaborate on key actions and/or partnerships your local government has engaged in to prepare for, and adapt to a changing climate. Add links to key documents and information where appropriate.	
	Complete a fleet review to work towards best practices in fleet management.





	Require mandatory emergency management training for staff
	Update Emergency Management Plan
	Apply for funds to complete a Fuel Management Plan
<b>Climate Change Adaptation Actions Proposed for 2019</b>	
	Obtained funds for flood risk assessment and floodplain mapping.
	Utilize Climate Action Staff to identify actionable items for adaptation.
	In 2019, we are planning to prescribe and treat approximately 600 hectares through various mechanical and hand treatment methods to reduce fuel loading. The municipality is also encouraging private landowners to FireSmart their properties as an adaptive response to living with and managing for inevitable wildfires on our landscape.
	In 2019, the City is collaborating with the Ministry of Forests Lands and Natural Resource Operations and Rural Development on a landscape analysis and restoration project that is working to change the land management paradigm from a stand-level to landscape level management.
<b>For more information please contact</b>	
	Tanya Turner <a href="mailto:tturner@quesnel.ca">tturner@quesnel.ca</a>

The following are key resources that may be helpful to your local government in identifying climate impacts, as well as, strategies, actions and funding to deal with them. For those resources that you have used, please indicate whether they were useful in advancing your work in climate change adaptation?	
<a href="#">Indicators of Climate Change for British Columbia</a> <a href="#">Plan2Adapt</a> <a href="#">Climate Projections for Metro Vancouver</a> <a href="#">Climate Projections for the Capital Region</a> <a href="#">Climate Projections for the Cowichan Valley Regional District</a> <a href="#">Province of BC's BC Adapts Video Series</a> <a href="#">Preparing for Climate Change: Implementation Guide for Local Governments</a> <a href="#">Public Infrastructure and Engineering Vulnerability Committee's (PIEVC)</a> <a href="#">Sea Level Rise Adaptation Primer</a> <a href="#">BC Regional Adaptation Collaborative Webinars</a> <a href="#">Retooling for Climate Change</a> <a href="#">Water Balance Model</a> <a href="#">Water Conservation Calculator</a>  Funding: <a href="#">National Disaster Mitigation Program (NDMP)</a> <a href="#">Community Emergency Preparedness Fund (CEPF)</a> <a href="#">Municipalities for Climate Innovation Program (MCIP)</a> <a href="#">Climate Adaptation Partner Grants (FCM)</a> <a href="#">Infrastructure Planning Grants (MAH)</a> <a href="#">Federal Gas Tax Fund</a>	Haven't Used Haven't Used Haven't Used Haven't Used Haven't Used Haven't Used Haven't Used Haven't Used Haven't Used Haven't Used Useful Haven't Used Haven't Used  Useful Useful Haven't Used Haven't Used Useful Useful
<b>Other (please specify)</b>	



## Other Climate Actions

This section provides local governments the opportunity to report other climate actions that are not captured in the categories above.

Community-Wide Other Actions Taken in 2018	
	In response to wildfires in 2017 and 2018, and projected wildfires in the coming decades, the Forestry Initiatives Program in Quesnel is undertaking reactive adaptation measures and anticipatory adaptation measures by carrying out fuel mitigation activities on Crown lands in Quesnel and surrounding area. The fuel mitigation activities are guided by our 2017 Quesnel and Surrounding Area Wildfire Protection Plan.
Corporate Other Actions Taken in 2018	

Other	
Are you familiar with the <a href="#">Community Lifecycle Infrastructure Costing Tool (CLIC)</a> ?	Yes
Is your local government using the <a href="#">CLIC</a> tool?	No

## Reporting Emissions

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

Did you measure your local government's corporate GHG emissions in 2018?	Yes
If your local government measured 2018 corporate GHG emissions, please report the number of corporate GHG emissions (in tonnes of carbon dioxide equivalent) from services delivered <u>directly</u> by your local government:	1191.99
If your local government measured 2018 corporate GHG emissions, please report the number of corporate GHG emissions (in tonnes of carbon dioxide equivalent) from <u>contracted</u> services:	121.58
<b>TOTAL A: CORPORATE GHG EMISSIONS FOR 2018</b>	<b>1,313.57 CO<sub>2</sub>e</b>

Based on your local government's 2018 CARIP Climate Action/Carbon Neutral Progress Survey, please check the GCC 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	X
Level 4 - Achievement of Carbon Neutrality	
Not Sure	