



Climate Action Revenue Incentive (CARIP) Public Report for 2017

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

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The City of Quesnel has completed the 2017 Climate Action Revenue Incentive Program (CARIP) Public Report as required by the Province of BC. The CARIP report summarizes actions taken in 2017 and proposed for 2018 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 2017	
	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 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.

Corporate Actions Taken in 2017	
	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 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.

Broad Planning	
What is (are) your current GHG reduction target(s)?	Work towards meeting a 33% reduction of greenhouse gases below 2007 levels by 2020 and 80% by 2050.
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? <ul style="list-style-type: none"> • Community Energy and Emissions (CEE) Plan • Community- Wide Climate Action Plan • Integrated Community Sustainability Plan • Official Community Plan (OCP) • Regional Growth Strategy (RGS) • Do not have a plan • Other: 	No No Yes Yes No No 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 2017	
	Signed onto solar-ready construction regulation.
	Consider beautification of downtown to increase walkability in the planning of the Reid St. redevelopment project.
	Continue to encourage densification of the downtown.
	Complete updates to the Solid Fuel Burning Appliances Bylaw
	Baker Creek Enhancement Society to continue to promote the wood stove exchange program.
Community-Wide Actions Proposed for 2018	
	Draft a community Energy and Emissions Plan for Council consideration.

Corporate Actions Taken in 2017	
	Continue to have notices in common staff areas reminding staff to turn off unused lights.
	Continue to update existing street lights to LED street lights.
	Replaced all the thermostats in City Hall this year to control the heat pumps through a DDC system that can be monitored through a central computer.
	Replacing exterior doors at the museum (building envelope improvements)
	Replacing runway lighting and PAPIs at the airport
	Replacing furnaces in the airport maintenance shop
Corporate Actions Proposed for 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.

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 Cost?	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 2017	
	Signed onto solar-ready construction regulation
Community-Wide Actions Proposed for 2018	
	Promote solar-ready construction through building permit process

Energy Generation	
Is your local government developing, or constructing: <ul style="list-style-type: none"> A district energy system A renewable energy system 	No No
Is your local government operating: <ul style="list-style-type: none"> A district energy system A renewable energy system 	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 BC Climate Action Toolkit ?	No
Are you familiar with the 2017 " List of Funding Opportunities for Clean Energy Projects Led by First Nations and Local Governments? "	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 2017	
	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
	Work to develop an Adopt-a-Park Policy to allow for organizations/groups/individuals to complete various Stewardship Activities at parks
	In upgrading the playground at Lebourdais Park, resurface parts of the playground with recycled rubber from used tires; making some sections accessible.
Community-Wide Actions Proposed for 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.

Corporate Actions Taken in 2017	
	Install additional crow proof garbage and recycling containers
	Continue to work towards actions set out in the City of Quesnel Parks, Green Spaces and Outdoor Recreation Master Plan.
	Install bear proof garbage and recycling containers at Chuck Beath Park and Ceal Tingley Park.
	Continue to work towards feasibility of a community forest.
Corporate Actions Proposed for 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.

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

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.

Community-Wide Actions Taken in 2017	
	Continued identification of improvements to community waste streams.
	Continued to place attention on diverting recycling from entering the landfill.
	Renewed contract with Baker Creek Enhancement Society to further educate the public on recycling.
	City promoted the use of backyard composting, by helping to subsidize the cost of the composters.
	Researched zero waste policies and practices from other communities.
	Monitored recyclable volumes following MMBC curbside collection.
Community-Wide Actions Proposed for 2018	
	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.
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Corporate Actions Taken in 2017	
	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.
Corporate Actions Proposed for 2018	
	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.

Solid Waste	
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 2017	
	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.
	Continue to encourage transit use.
	Allow for waived transit on general voting day for all levels of government elections.
	Continue to encourage anti-idling policies.
	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.
	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.
	Create a paved trail at Lebourdais Park to improve access.
	Sidewalk extension on Front Street to Gordon Avenue.
Community-Wide Actions Proposed for 2018	
	Allow for waived transit on general voting day for the municipal election this year.



	Continue to encourage transit use.
	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
	Continue to encourage anti-idling policies.
	Allow for waived transit on general voting day for all levels of government elections

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

Transportation	
Does your local government have policies, plans or programs to support: <ul style="list-style-type: none"> • Walking • Cycling • Transit Use • Electric Vehicle Use • Other (please specify) 	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.

Community-Wide Actions Taken in 2017	
	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.
Community-Wide Actions Proposed for 2018	
	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.

Corporate Actions Taken in 2017	
	Employ 2 drinking water ambassador positions to promote water sustainability initiatives.
	Continue another phase of leak detection program.
	Continue to promote water conservation through various mediums.
	Continue to implement water conservation lawn sprinkling practices.
Corporate Actions Proposed for 2018	
	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.

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

Climate Change Adaptation Actions Taken in 2017	
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.	
	Continue and expand the scope of upgrades to the storm water system.
	Complete storm water upgrades on Lewis Drive in West Quesnel Land Stability.
	Continue to complete work on Anderson Drive, Abbott Drive, Flamingo Street, Broughton Avenue and Healy Street – 2017 to include work on Lewis Drive, and Healy Street to Perry Street (100% completion of major project).
	Completed a Community Wildfire Protection Plan https://www.quesnel.ca/city-hall/major-initiatives/community-wildfire-protection-plan
	Work towards promoting xeriscaping in the community – through our Water Ambassador Program students. https://www.quesnel.ca/our-community/news-notice/news-releases/september-19-2017-council-highlights
Climate Change Adaptation Actions Proposed for 2018	
	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
For more information please contact:	
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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 2017?	Yes
If your local government measured 2017 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:	1,196
If your local government measured 2017 corporate GHG emissions, please report the number of corporate GHG emissions (in tonnes of carbon dioxide equivalent) from <u>contracted</u> services:	50
TOTAL A: CORPORATE GHG EMISSIONS FOR 2017	1,246 CO2e

Based on your local government's 2017 CARIP Climate Action/Carbon Neutral Progress Survey, please check the GCC Climate Action Recognition Program level that best applies:

<input type="checkbox"/>	Level 1 – Demonstrating Progress on Charter Commitments	
<input checked="" type="checkbox"/>	Level 2 – Measuring GHG Emissions	X
<input type="checkbox"/>	Level 3 – Accelerating Progress on Charter Commitments	
<input type="checkbox"/>	Level 4 - Achievement of Carbon Neutrality	
<input type="checkbox"/>	Not Sure	