



Climate Action Revenue Incentive (CARIP) Public Report for 2016

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

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The City of Quesnel has completed the 2016 Climate Action Revenue Incentive Program (CARIP) Public Report as required by the Province of BC. The CARIP report summarizes actions taken in 2016 and proposed for 2017 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 2016

Encouraged development consistent with Official Community Plan (OCP) objectives.
Support densification of downtown, encourage residential-commercial mixed use in the downtown core, encourage solar ready construction.
Continued revision of the Official Community Plan under the Integrated Sustainability Plan.
Continued identification of improved waste streams.
Continued to support local food production programs such as community gardens and regional agriculture centre.

Community-Wide Actions Proposed for 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.
Complete revisions to the Official Community Plan.
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 2016

Encouraged more local procurement (less shipping of goods).
Worked towards CEEP action implementation.
Continued to investigate options for GHG emission reduction projects to move towards carbon neutrality.

Community-Wide Actions Proposed for 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.

Broad Planning

What is (are) your current GHG reduction target(s)?	(provide details here)
Has your local government used the Community Energy and Emissions Inventory (CEEI) to measure progress?	Yes
What plans, policies or guidelines govern the implementation of climate mitigation in your community?	
✓ Community Energy and Emissions (CEE) Plan	No
✓ Climate Action Plan	No
✓ Integrated Community Sustainability Plan	Yes
✓ Official Community Plan (OCP)	Yes
✓ Regional Growth Strategy (RGS)	No
✓ Do not have a plan	Yes/No
Does your local government have a corporate GHG reduction plan?	No
Does your local government have a climate reserve fund or something similar?	No

Buildings 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 2016

- Reviewed signing into solar-ready construction regulation.
- Continue encouraging beautification of downtown to increase walkability.
- Continued to encourage densification of downtown and multi-use buildings.
- Baker Creek Enhancement Society continued to promote the wood stove exchange program.
- Reviewed signing into solar-ready construction regulation.

Community-Wide Actions Proposed for 2017

- Sign 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.
- Draft a community Energy and Emissions Plan for Council consideration.
- Baker Creek Enhancement Society to continue to promote the wood stove exchange program.

Corporate Actions Taken in 2016

- Development of the Multi-Family Housing Incentives Bylaw.
- Continued to have notices in common staff areas reminding staff to turn off unused lights.
- Advanced energy planning and implementation through utilization of CARIP funds.
- Updated existing street lights to LED street lights – completed all arterial and collector roads (total 124 street lights).

Corporate Actions Proposed for 2017

- Complete updates to the Solid Fuel Burning Appliances Bylaw
- 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.
- Advance energy planning and implementation through utilization of CARIP funds.
- LED Lighting upgrades at the RCMP building and City Hall.
- Replacing exterior doors at the museum (building envelope improvements)
- Replacing runway lighting and PAPIs at the airport
- Replacing furnaces in the airport maintenance shop

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 2016

Encouraged solar ready construction in new buildings

Community-Wide Actions Proposed for 2017

Sign onto solar-ready construction regulation.

Energy Generation

Is your local government developing, or constructing:	
✓ A district energy system	No
✓ A renewable energy system	No
Is your local government operating:	
✓ A district energy system	No
✓ A renewable energy system	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 ?	Yes

Greenspace / Natural Resource Protection

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 2016

Continued enforcement of the Quesnel Tree Protections Bylaw in land stability, agriculture and industrial zones.

Continued protection of Riparian Areas through zoning and regulation and a Riparian Area Development Permit.

Dedicated Public Works staff to maintain parks and green space and place/replace vegetation.

Continued to work to retain natural vegetation in development proposals.

Community-Wide Actions Proposed for 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.

Corporate Actions Taken in 2016

Install bear proof garbage and recycling containers at West Fraser Timber Park

Worked towards actions set out in the City of Quesnel Parks, Green Spaces and Outdoor Recreation Master Plan.

Continued to work towards feasibility of a community forest.

Resurfaced Recreation Centre playground with recycled rubber from used tires; creating an accessible playground.

Corporate Actions Proposed for 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.

Greenspace

Does your local government have urban forest policies, plans or programs?	Yes
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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 2016

Continued identification of improvements to community waste streams.
Continued attention on diverting recycling from entering the landfill.
Hired Baker Creek Enhancement Society to do waste wise education in the elementary schools.
Continued to monitor recyclable volumes following MMBC curbside collection.

Community-Wide Actions Proposed for 2017

Continue identification of improvements to community waste streams.
Continue 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.
Continue to monitor recyclable volumes following MMBC curbside collection.

Corporate Actions Taken in 2016

Continued identification of improvements to corporate waste streams which can be eliminated, reduced or recycled.
Continued to divert recyclable materials from landfill to recycling programs.
Continued engagement of staff in moving towards a paperless workplace by reducing paper usage.
Began diverting clean wood waste to local mills rather than the landfill.
Continued with bi-weekly garbage collection to encourage waste reduction.
Landfill remained closed on Monday's to encourage waste reduction.
Restrict statutory holidays that the landfill is open to encourage waste reduction.

Corporate Actions Proposed for 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.

Solid Waste

Does your local government have construction and demolition waste reduction policies, plans or programs?	No
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Does your local government have organics reduction/diversion policies, plans or programs?	Yes
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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 2016

Encouraged Transit Use.
Continued to assess ways to improve accessibility and use of transit system.
Completed an Active Transportation Plan and implement actions to improve active transportation in the community.

Community-Wide Actions Proposed for 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.

Corporate Actions Taken in 2016

Approved by UNBC and CNC Student Unions to begin UPass.
 Promoted Anti-Idling as the “Bylaw of the Month” Initiative in September 2016 during ‘back to school’ time.
 Continued to encourage the use of local transit.
 BC Transit completed an update to the Service Review of Quesnel’s transit system.
 Promoted bike to work week

Corporate Actions Proposed for 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.
 Public Works to conduct a review of fleet which will include green initiatives and fleet management.
 Continue to promote alternative methods of transportation (i.e. bike to work week).

Transportation

Does your local government have policies, plans or programs to support:	
✓ Walking	Yes
✓ Cycling	Yes
✓ Transit Use	Yes
✓ Electric Vehicle Use	Yes
✓ Other (please specify)	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 have policies, plans or programs to support local food production (thus reducing transportation emissions)?	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 2016

Bylaw of the Month initiative in July for sprinkling restrictions.
Continued to require water conservation for lawn sprinkling practices during the summer months.
Continued to promote water conservation through various mediums.

Community-Wide Actions Proposed for 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.

Corporate Actions Taken in 2016

Completed all high and medium sanitary system repairs.
Replaced pumps at Healy booster with high efficiency.
Implemented a leak detection program.
Completed all minor and major repairs to the sanitary system in the West Quesnel Land Stability.
Continued to promote water conservation through various mediums.
Continued to implement water conservation lawn sprinkling practices.

Corporate Actions Proposed for 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.

Water Conservation

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

Climate Change Adaption

For local governments, adaptation to a changing climate can take the form of changes in policy, management, technology and behaviour that minimize negative impacts or exploit opportunities. It can involve both “hard” and “soft” solutions, including: changes in infrastructure engineering, planning, zoning, bylaws, and public education.

Climate Change Adaption Actions Taken in 2016

Completed major storm water upgrade in West Quesnel and North Quesnel
Acquired and developed site as storm water infiltration for West Quesnel Storm Water.
Completed two stormceptors to the outlet of new West Quesnel Storm System.
Major work completed on Anderson, Abbott, Flamingo, Broughton and Healy St. – 90% Complete as of 2016.
Created a new snow dump in West Quesnel to decrease the travel distance of moving snow and reduce vehicle emissions.

Climate Change Adaption Actions Proposed for 2017

Complete a fleet review to work towards best practices in fleet management.
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).
Obtain funding to evaluate floodplain risk and mapping.
Work towards promoting xeriscaping in the community.

In 2016, did you consider climate change impacts in any of the following areas?

Risk reduction strategies	Yes
Risk and Vulnerability assessment	Yes
Asset management	Yes
Infrastructure upgrades (e.g. stormwater system upgrades)	Yes
Cross-department working groups	Yes
Emergency response planning	Yes
Land-use policy changes (eg. OCP, DPA)	Yes
Economic diversification initiatives	Yes
Ecosystem-based approaches (incl. shorelines)	No
Incentives (e.g. property owner reducing stormwater run-off)	Yes
Public education and awareness	Yes
Research (e.g. mapping, participation in studies)	No
	N/A

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 Actions Taken in 2016

Re-routed planned storm infrastructure upgrade to retain trees in park.
Continued with tree planting and replacement program.
Promoted the anti-idling section of the Street, Traffic and Parking Bylaw.

Community-Wide Actions Proposed for 2017

Upgrade drainage to South Quesnel to prevent erosion
Continue with tree planting and replacement program.
Continue to promote the anti-idling section of the Street, Traffic and Parking Bylaw.

Corporate Actions Taken in 2016

Joined Bike to Work Week and challenged other community organizations to take part.

Corporate Actions Proposed for 2017

Join Bike to Work Week and challenged other community organizations to take part.

Other

Are you familiar with the Community Lifecycle Infrastructure Costing Tool (CLIC) ?	Yes
Have you used CLIC?	No

Programs, Partnerships and Funding Opportunities

Local governments often rely on programs, partnerships and funding opportunities to achieve their climate action goals. Please share the names of programs and organizations that have supported your local government's climate actions by listing each entry in the box below.

Programs and Funding

Fraser Basin Council; Community Energy Association

Carbon Neutral Reporting

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.

Prior to completing this survey, please ensure that you are familiar with guidance available on the B.C. Climate Action Toolkit website, especially *Becoming Carbon Neutral: A Guide for Local Governments in British Columbia*.

Reporting Emissions

Did you measure your local government's corporate GHG emissions in 2016?	Yes
If your local government measured 2016 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:	1,129
If your local government measured 2016 corporate GHG emissions, please report the number of corporate GHG emissions (in tonnes of carbon dioxide equivalent) from <u>contracted</u> services:	53
TOTAL A: CORPORATE GHG EMISSIONS FOR 2016	1,182 tCO₂e

Reporting Reductions and Offsets

To be carbon neutral, a local government must balance their TOTAL corporate GHG emissions by one or a combination of the following actions:

- undertake GCC-supported Option 1 Projects
- undertake GCC-supported Option 2 Projects (community GHG emissions reduction projects that meet project eligibility requirements)
- purchase carbon offsets from a credible offset provider

If applicable, please report the 2016 GHG emissions reductions (in tonnes of carbon dioxide equivalent (tCO₂e)) being claimed from Option 1 GHG Reduction Projects:

TOTAL REDUCTIONS AND OFFSETS FOR 2016 (Total B+C+D) = 0 tCO₂e

Corporate GHG Emissions Balance for 2016

Your local government's Corporate GHG Emissions Balance is the difference between total corporate GHG emissions (direct + contracted emissions) and the GHG emissions reduced through GCC Option 1 and Option 2 projects and/or the purchase of offsets.

CORPORATE GHG EMISSIONS BALANCE FOR 2016 = (A – (B+C+D)) = 1182 tCO₂e

**If your Corporate GHG Emissions Balance is negative or zero,
your local government is carbon neutral.
CONGRATULATIONS!**

GCC Climate Action Recognition Program

The joint Provincial-UBCM Green Communities Committee (GCC) is pleased to be continuing the Climate Action Recognition Program again this year. This multi-level program provides the GCC with an opportunity to review and publicly recognize the progress and achievements of each Climate Action Charter (Charter) signatory.

This year a new recognition level has been added – **Level 3: Accelerating Progress on Charter Commitments**. 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, and who have measured their Corporate GHG Emissions for the reporting year and demonstrate that they are familiar with the Community Energy and Emissions Inventory (CEEI)

Level 3 – Accelerating Progress on Charter Commitments: for those local governments who have achieved level 1 and 2 and have demonstrated undertaking significant action (corporately or community wide) to reduce GHG emissions in the reporting year (ie: through undertaking a GHG reduction project, purchasing offsets, establishing a reserve fund).

Level 4 - Achievement of Carbon Neutrality: for local governments who achieve carbon neutrality in the reporting year.

Based on your local government's 2016 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

Level 4 – Achievement of Carbon Neutrality

Not Sure