

Climate Action Revenue Incentive Plan (CARIP) Public Report

Climate Action Revenue Incentive (CARIP) Public Report for 2016

**Corporation
of the
Village of Fruitvale**



The Village of Fruitvale 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). The public report provides an update on progress made towards achieving carbon neutrality. Climate adaptation actions and strategies are also noted in the report.

2016 BROAD PLANNING ACTIONS

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, centered) plays an especially important role in energy and GHG reduction.

Community-Wide Broad Planning Actions Taken in 2016	
	<p>The Village Council and staff have participated in ongoing planning and collaboration with three other regional districts (RDKB, RDCK and RDEK) to implement Electric Vehicle charging stations across the Kootenays.</p> <p>Expanded greenspace and tree plantings have been planned.</p> <p>The community continues to plan for phased LED replacement of street lights.</p>
Community-Wide Broad Planning Actions Proposed for 2017	
	<p>Installation of first phase of LED street lights.</p> <p>Use of solar lights in parklands.</p> <p>Continuation of greenspace and treed areas expansion.</p>

Corporate Broad Planning Actions Taken in 2016	
	<p>The Village Council and staff have participated in ongoing planning and collaboration with three other regional districts (RDKB, RDCK and RDEK) to implement Electric Vehicle charging stations across the Kootenays.</p> <p>Expanded greenspace and tree plantings have been planned.</p> <p>The Village continues to plan for phased LED replacement of street lights.</p>
Corporate Broad Planning Actions Proposed for 2017	
	<p>Budgeting and installation of EV charging station in Village facility.</p> <p>Installation of first phase of LED street lights with Village and grant funding.</p> <p>Installation of solar lights in parklands and amenity areas.</p> <p>Continuation of greenspace and treed areas expansion.</p>
Snapshot Questions	
<p>What GHG reduction targets are included in your local government's Official Community Plan or Regional Growth Strategy?</p> <p>The reduction target are as follows:</p> <ul style="list-style-type: none"> - 33% below 2007 levels by 2020 - 80% below 2007 levels by 2050 	Yes
<p>Are you familiar with the Community Energy and Emission Inventory (CEEI)?</p>	Yes
<p>Does your local government use the Community Energy and Emissions Inventory (CEEI) to <u>measure progress</u>?</p>	Yes
<p>Which of the following does your local government use to guide climate action implementation?</p> <ul style="list-style-type: none"> • Community Energy and Emissions (CEE) Plan • Climate Action Plan • Integrated Community Sustainability Plan • Official Community Plan (OCP) • Regional Growth Strategy (RGS) 	Yes Yes No Yes No

• Other:	No
Does your local government have a climate action reserve fund?	Yes
Does your local government have a Corporate Climate Action Plan?	Yes

2016 BUILDINGS AND LIGHTING ACTIONS

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 2016	
	Resources were utilized to research and plan for LED street lighting improvements throughout the Village over the next five years.
Community Wide Actions Proposed for 2017	
	Begin the phased installation of more efficient LED street lighting.

Corporate Actions Taken in 2016	
	Boiler replacement at community hall to enhance efficiency Energy efficient automatic light switches installed in washrooms and hallways in community hall.
Corporate Actions Proposed for 2017	
	Continuation of energy efficiencies (lighting, thermal, etc.) in community hall renovations Replacement of roof at Public Works building to reduce heating costs..

2016 ENERGY GENERATION ACTIONS

Energy Generation

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.

Corporate Actions Taken in 2016	
	Lobbying for feasibility study re: energy generation on regional water service intakes.
Corporate Actions Proposed for 2017	
	Continuation of lobbying for feasibility study re: energy generation on regional water service intakes.
Snapshot Questions	
Is your local government developing, or constructing a district energy project?	No
Is your local government operating a district energy system?	No
Is your local government developing or constructing a renewable energy project?	No
Is your local government operating a renewable energy project?	No

Are you aware of the Integrated Resource Recovery guidance page on the BC Climate Action Toolkit (http://www.toolkit.bc.ca/funding-local-government-climate-action-initiatives)?	Yes
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2016 GREENSPACE/ NATURAL RESOURCE PROTECTION ACTIONS

Greenspace

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	
	Installation of new centralized greenspace/park/walkway/bikeway with trees & plantings. Planning for another centralized greenspace and raingarden. Community garden support, organization and utilization.
Community-Wide Actions Proposed for 2017	
	Installation of new centralized greenspace/park and raingarden. Continuation of community garden. Remediation of greenspace along creek. Maintenance of urban trees (boulevards, greenspaces)
Snapshot Question	
Does your local government have urban forest policies, plans or programs?	Yes

2016 SOLID WASTE ACTIONS

Solid Waste

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	
	Encouraged re-purposing and re-using by supporting Trash to Treasure days throughout the community and in collaboration with two local Regional Districts.
	Community education on waste reduction.
	Council support for RDKB green waste/composting and staff participation in technical committee.
Community-Wide Actions Proposed for 2017	
	Continued staff participation in RDKB tech/planning committee for green waste/compost facility.
Corporate Actions Taken in 2016	
	Replacement of garbage truck with more efficient vehicle (more gas efficient, larger bin/fewer trips)
	Increased garbage user fees and garbage bag prices to not only cover increasing costs of providing the solid waste service but also to defer refuse from the landfills.
Corporate Actions Proposed for 2017	

	Continuation of program to increase garbage user fees and garbage bag prices to not only cover increasing costs of providing the solid waste service but also to defer refuse from the landfills.
	Continuation of support and participation in green waste / composting regional service.
Snapshot Questions	
Does your local government have construction and demolition waste reduction policies, plans or programs? Regional	Yes
Does your local government have organics reduction/diversion policies, plans or programs? Regional	Yes

2016 TRANSPORTATION ACTIONS

Transportation

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	
	Installation of walkway / bikeway through Village.
Community-Wide Actions Proposed for 2017	
	Installation of additional walkways
	Planning for additional walking paths on reconstructed street project from residential area to downtown.

Corporate Actions Taken in 2016	
	Installed the Railway Park walking path to encourage and support pedestrian foot traffic in a section of town without such developed paths.
	Planning and budgeting for additional walkways.
Corporate Actions Proposed for 2017	
	Requirement for bike stations in Development Permit Area applications.
	Rehabilitation of road surfaces.
Snapshot Questions	
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 	Yes in OCP Policies & Directives
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)?	Yes

2016 WATER AND WASTEWATER ACTIONS

Water and Wastewater

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	
	Earlier implementation of water irrigation restrictions to encourage conservation.
	Community education on water conservation actions and plans.
	Enhanced enforcement of water irrigation restrictions.
Community Wide Actions Proposed for 2017	
	Stringent water restrictions if drought apparent in summer season.
	Stringent enforcement of water irrigation restrictions.
	Continued community education on water conservation.

Corporate Actions Taken in 2016	
	Major upgrades at our Sewage Treatment Plant including installation of energy efficient aerations system in treatment lagoons, installation of new energy efficient electrical system.
	Installation of programmable irrigation systems in parks and greenspace areas.
Corporate Actions Proposed for 2017	
	Continue upgrades at the Sewage Treatment Plant .
	Planning for next phase of STP upgrades including Inflow & Infiltration (I&I) Reduction Program.
	Replacement of sewer lines in road projects to reduce I&I.
	Install programmable irrigation systems in all parks.
Snapshot Question	
Does your local government have water conservation policies, plans or programs?	Yes

2016 CLIMATE CHANGE ADAPTATION ACTIONS

Climate Change Adaptation

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.

Corporate Actions Taken in 2016	
	Improved storm water collection, construction in accordance with storm water master plan.
	Risk assessment tool developed to assess infrastructure planning for underground assets.
	Asset Management Investment Plan project started.
Corporate Actions Proposed for 2017	

	I&I Reduction study to determine impact of climate change on sewer treatment and collection system.
	Asset Management Policy development to ensure future improvement of necessary assets to meet climate change and adaptation needs.
Snapshot Question	
In what areas did you consider climate change impacts in?	Risk and vulnerability assessment Asset management Infrastructure upgrades (stormwater, sewer collection, sewer treatment)

2016 OTHER CLIMATE ACTIONS

Other Climate Actions

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

Corporate Actions Taken in 2016	
	Continue to make annual contributions to our carbon reserve in amounts to cover both the CARIP grant and offsets required to obtain carbon neutrality.
Corporate Actions Proposed for 2017	
	Source local or regional carbon offsets to invest reserve funds in
Snapshot Questions	
Are you familiar with the Community Lifecycle Infrastructure Costing Tool (CLIC)?	No
Have you used the CLIC?	No

INNOVATION AND PEER LEARNING

Innovation

This section provides the opportunity to showcase an innovative Corporate and/or Community-Wide reduction or adaptation activity that your local government has undertaken and that has had a significant impact or has the potential to have a significant impact. Projects included here may be featured as success stories on the B.C. Climate Action Toolkit and/or shared with other local governments to inspire further climate action.

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 appropriate box below.

Programs and Funding
Gas Tax Strategic Priorities Fund, Clean Water and Wastewater Fund, Province of BC UBCM Asset Management Program, Province of BC Infrastructure Planning Grant Program

CARBON NEUTRAL REPORTING

Reporting Emissions

Did you measure your local government's corporate GHG emissions in 2016? (Yes/No)	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:	102
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:	0
TOTAL A: CORPORATE GHG EMISSIONS FOR 2016	102 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)) = 102 tCO₂e

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

GCC CLIMATE ACTION RECOGNITION PROGRAM

Green Communities Committee (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. Recognition is provided on an annual basis to local governments who demonstrate progress on their Charter commitments, according to the following:

Level 1 - Progress on Charter Commitments: for local governments who demonstrate progress on fulfilling one or more of their Charter commitments

Level 2 - Measurement: for local governments 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 - Achievement of Carbon Neutrality: for local governments who achieve carbon neutrality in the reporting year.

Based on your local government's 2014 CARIP Public Report, please check the GCC Climate Action Recognition Program level that best applies:

<input type="checkbox"/>	Level 1 - Progress on Charter Commitments	
<input type="checkbox"/>	Level 2 - Measuring GHG Emissions	Yes
<input type="checkbox"/>	Level 3 - Achievement of Carbon Neutrality	
<input type="checkbox"/>		