

# Climate Action Revenue Incentive (CARIP) Public Report for 2015

**Local Government:** City of Revelstoke

**Report Submitted by:** City of Revelstoke

**Name:** Penny Page-Brittin

**Role:** Environmental Sustainability Coordinator

**Email:** pbrittin@telus.net

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The City of Revelstoke has completed the 2015 Climate Action Revenue Incentive Program (CARIP) Public Report as required by the Province of British Columbia. The CARIP report summarizes actions taken in 2015 and proposed for 2016 to reduce corporate and community-wide energy consumption and greenhouse gas emissions (GHG) in the categories of broad planning, lighting and buildings, energy generation, greenspace, solid waste, transportation and water and wastewater. As well as reporting on progress towards achieving carbon neutrality and providing an opportunity to report on climate adaptation actions.



## 2015 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, centred) plays an especially important role in energy and GHG reduction.

Community-Wide Actions Proposed for 2016	
	Engage the community through the Official Community Plan review process
	Update the City's Official Community Plan including the sustainability and environmental sections
	Create a public display of the Integrated Sustainability Community Plan (ICSP), highlighting actions completed to date and providing an opportunity for the public to comment and identify new community priorities

Corporate Actions Taken in 2015	
	Accepted into the FCM Leadership in Asset Management Program
Corporate Actions Proposed for 2016	
	Update the 2011 Corporate Energy and GHG Emissions Reduction Strategy
	Revise the City's asset management policy, strategy and governance framework through involvement with the FCM Leadership in Asset Management Program
	Develop a levels of service framework to support asset management

Snapshot Questions	
What GHG reduction targets are included in your local government's Official Community Plan or Regional Growth Strategy? <b>8% reduction below 2007 levels by 2020</b>	
Are you familiar with the Community Energy and Emission Inventory (CEEI)?	<b>Yes</b>
Does your local government use the Community Energy and Emissions Inventory (CEEI) to measure progress?	<b>No</b>
Which of the following does your local government use to guide climate action implementation?	
• Community Energy and Emissions (CEE) Plan	<b>Yes</b>
• Climate Action Plan	<b>No</b>
• Integrated Community Sustainability Plan	<b>Yes</b>
• Official Community Plan (OCP)	<b>Yes</b>
• Regional Growth Strategy (RGS)	<b>No</b>
• Other:	
Does your local government have a climate action reserve fund?	<b>Yes</b>
Does your local government have a Corporate Climate Action Plan?	<b>Yes</b>

## 2015 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.

<b>Community-Wide Actions Taken in 2015</b>	
	A building energy audit was completed for the Visual Arts Centre
	LED streetlights were installed on Mackenzie Ave
	Provided a wood stove exchange rebate program
	Provided educational information regarding changes to the BC Building Code
<b>Community-Wide Actions Proposed for 2016</b>	
	Continue to provide a wood stove exchange rebate program

<b>Corporate Actions Taken in 2015</b>	
	Initiated a building energy audit for the Fire Hall and RCMP building
	Completed DDC and lighting upgrades at City Hall
	Installed a heat recovery ventilator system at Public Works
	Completed upgrades to LED lighting at the Curling rink
	Upgraded DDC controls at the museum and Community Centre
<b>Corporate Actions Proposed for 2016</b>	
	Explore funding opportunities to increase the number of LED streetlights
	Evaluate capital projects and energy saving opportunities identified in the building energy audits
	Lighting upgrades to LED at the museum

## 2015 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.

<b>Community-Wide Actions</b>	
	Revelstoke Community Energy Corporation (RCEC) provides biomass district heating to 10 buildings in the community

<b>Corporate Actions Proposed for 2016</b>	
	Evaluate site suitability for geoexchange heating potential for the Water Treatment Plant

<b>Snapshot Questions</b>	
Is your local government operating a district energy system?	<b>Yes</b>
Is your local government developing or constructing a renewable energy project?	<b>No</b>
Is your local government operating a renewable energy project?	<b>Yes</b>
Are you aware of the Integrated Resource Recovery guidance page on the BC Climate Action Toolkit? <a href="http://www.toolkit.bc.ca/tool/integrated-resource-recovery-irr">http://www.toolkit.bc.ca/tool/integrated-resource-recovery-irr</a>	<b>Yes</b>

## 2015 GREENSPACE/ NATURAL RESOURCE PROTECTION 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.

<b>Community-Wide Actions Taken in 2015</b>	
	A Food Security Coordinator was hired to implement actions in the Food Security Strategy
<b>Community-Wide Actions Proposed for 2016</b>	
	Continue to implement recommendations in the Food Security Strategy
	Continue to support community gardens
	Continue to support the farmers market
	Continue to be a member of the Columbia Shuswap Invasive Species Society

<b>Corporate Actions Taken in 2015</b>	
	Parks staff completed an invasive species workshop

<b>Corporate Actions Proposed for 2016</b>	
	Evaluate the feasibility of increasing parkland/river access as part of the Front and Wales Lift Station Project and the Envision Sustainability Infrastructure evaluation
	Continue to replace trees as needed

<b>Snapshot Question</b>	
Does your local government have urban forest policies, plans or programs?	<b>Yes</b>

## 2015 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.

<b>Community-Wide Actions Taken in 2015</b>	
	The 2009 Solid Waste Management Plan was revised and updated to include a new five year implantation schedule
<b>Community-Wide Actions Proposed for 2016</b>	
	A food recovery workshop was completed to identify ways to recover useable food and reduce organics entering the landfill
	The regional district plans to implement a commercial organic waste diversion pilot program

<b>Corporate Actions Taken in 2015</b>	
	The responsibility for curbside recycling collection was transferred to industry through Multi Material British Columbia (MMBC)
<b>Corporate Actions Proposed for 2016</b>	
	In conjunction with the regional district evaluate the feasibility and funding opportunities to process organic waste at the Revelstoke Landfill
	Reduce the allowable garbage limit from two containers to one to encourage recycling and reduce waste landfilled
	Implement a Garbage App including an on line tool to aid in the transition to a four day collection system and encourage diversion of waste
	Continue to compost coffee grounds at City Hall
	Review options for bear proof centralized bins for mobile home parks

Snapshot Questions	
Does your local government have construction and demolition waste reduction policies, plans or programs?	Yes
Does your local government have organics reduction/diversion policies, plans or programs?	Yes

## 2015 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 2015	
	An electric vehicle charging station was installed at the visitor information centre
Community-Wide Actions Proposed for 2016	
	Continue to support bike to work week
	Conduct stakeholder engagement to improve efficiencies in the transit system

Corporate Actions Taken in 2015	
	Completed an E3 Fleet review
Corporate Actions Proposed for 2016	
	Utilize GPS monitoring of the fleet to evaluate fuel efficiency and idling
	Evaluate recommendation in the fleet review

Snapshot Questions	
Does your local government have policies, plans or programs to support:	
• Walking	Yes
• Cycling	Yes
• Transit Use	Yes
• Electric Vehicle Use	No
• Other	
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
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## 2015 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 2015	
	Water conservation education and items were provided to residents at farmers markets and other public events
Community-Wide Actions Proposed for 2016	
	Continue to provide water conservation education and items to residents at farmers markets and other public events

Corporate Actions Taken in 2015	
	Replaced three district water meters to better understanding water use and aid in leak detection
	The City is a member of CBT Water Smart program
Corporate Actions Proposed for 2016	
	Amend the water restriction bylaw to include different levels and restriction requirements
	Upgrade the Arrow Heights PRV, including installation of a new flow meter and electronic flow control
	Continue to be a member of the CBT Water Smart program

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

## 2015 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.

Community-Wide Actions Proposed for 2016	
	Complete a Storm Water Management plan which considers climate change adaptation

Corporate Actions Taken in 2015	
	The City’s Environmental Sustainability Coordinator is a member of CBT Climate Resilience Program Development Steering Committee
Corporate Actions Proposed for 2016	
	Install flow monitoring on Greeley Creek

Snapshot Questions	
Are you aware of the Plan2Adapt guidance page on the <a href="#">BC Climate Action Toolkit</a> ?	Yes
Are you aware of the <i>Preparing for Climate Change, An Implementation Guide for Local Governments in BC</i> on the <a href="#">BC Climate Action Toolkit</a> ?	Yes
Have you visited the climate change adaptation guidance page on the <a href="#">BC Climate Action Toolkit</a> ?	Yes

## 2015 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 Proposed for 2016	
	The City contracts an Environmental Sustainability Coordinator



## INNOVATION AND PEER-TO-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. Please add links to additional information where possible.

#### Community-Wide Innovative Action

The City's resort shuttle bus has been a big success. Since the 2008/2009 ski season, the City of Revelstoke, the Revelstoke Accommodation Association (RAA), and the Revelstoke Mountain Resort (RMR) have partnered to provide shuttle bus service between the city and resort. In the first year the service saw approximately 15,000 trips. Since then additional buses have been added and the 2013/14 season saw ridership increase to 46,000 trips, an increase of more than 300% since the service began. It is estimated the shuttle buses save approximately 70 tonnes of CO<sub>2</sub>e annually.

### 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

FCM Green Municipal Fund  
Columbia Basin Trust Environmental initiative  
UBCM Strategic Priority Fund – Capacity Building  
Resort Municipality Initiative fund  
North Columbia Environmental Society  
Bike to Work week  
Columbia Shuswap Invasive Species Society  
CBT Water Smart  
Revelstoke Accommodation Association  
Revelstoke Mountain Resort

## 2015 CARBON NEUTRAL REPORTING

### Reporting Emissions

Did you measure your local government's corporate GHG emissions in 2015? (Yes/No)	Yes
If your local government measured 2015 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:	1030
If your local government measured 2015 corporate GHG emissions, please report the number of corporate GHG emissions (in tonnes of carbon dioxide equivalent) from <u>contracted</u> services:	68
<b>TOTAL A: CORPORATE GHG EMISSIONS FOR 2015</b>	<b>1098</b> tCO <sub>2</sub> e

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

The City did not undertake any Green Communities Committee supported projects outside of the corporate scope to reduce our corporate emissions.

The City has chosen in 2015 to not purchase carbon offsets to be carbon neutral, but will continue to make progress toward being carbon neutral.

## 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 checked="" type="checkbox"/>	Level 2 - Measurement	X
<input type="checkbox"/>	Level 3 - Achievement of Carbon Neutrality	
<input type="checkbox"/>	Not Sure	