

Climate Action Revenue Incentive (CARIP) Public Report for 2016

Local Government: City of Rossland

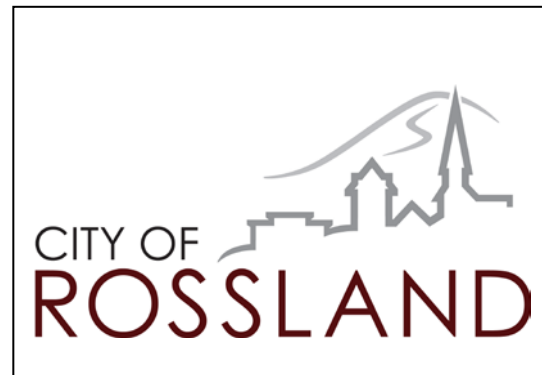
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The City of Rossland has completed the 2016 Climate Action Revenue Incentive Program (CARIP) Public Report as required by the Province of BC. The CARIP report summarizes actions taken in 2016 and proposed for 2017 to reduce corporate and community-wide energy consumption and greenhouse gas emissions (GHG) and reports on progress towards achieving carbon neutrality.

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

Community-Wide Actions Taken in 2016	
	Sustainability Commission organises many community engagement events throughout the year promoting various climate related actions (movie nights, GREEN drinks discussions, expert talks)
	Development of a food charter for Rossland which has general principles to guide decision making around food security.
	Assisted Selkirk College students prepare a range of plans for the City, some of which focus on GHG reduction and smart growth principles.
Community-Wide Actions Proposed for 2017	
	Sustainability Commission climate action related events.
	Approval of a food charter for Rossland.
	Update the State of Rossland-indicator monitoring project to measure Rossland's progress toward its sustainability goals.

Corporate Actions Taken in 2016	
	Adopted Corporate GHG Reduction Plan
	Ongoing support for the Sustainability Commission
	Climate Action Reserve fund bylaw adopted. Bylaw will place CARIP funds and an additional 25\$ per tonne of measurable greenhouse gas emissions annually into a Climate Action reserve fund to be used for GHG reduction initiatives.
Corporate Actions Proposed for 2017	
	Created a new street light policy with the aim of reducing the amount of streetlights and replacing all street lights with LED lights
	Ongoing support for the Sustainability Commission

Broad Planning	
What is (are) your current GHG reduction target(s)?	33% below Rossland's 2007 GHG emissions' levels by 2020.
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?	
<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) • Do not have a plan • Other: 	Yes Yes Yes Yes No
Does your local government have a corporate GHG reduction plan?	Yes
Does your local government have a climate reserve fund or something similar?	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	
	Sustainability Commission donated LED bulbs to Food Bank for distribution to lower income households.
	Sustainability Commission hosted an "Energy Crawl" to feature homes with an interesting alternative energy system or feature. Great success with over 300 people attending the event and visiting the featured homes.
Community-Wide Actions Proposed for 2017	
	Replacement of the EV Charging station (not currently working) in partnership with the Accelerate Kootenays program.

Corporate Actions Taken in 2016	
	Pilot project replacing street lights with LED lights in one neighbourhood
	New LED lights installed on Washington St.
	Replaced all lights in the Arena with LED bulbs.
	Upgrades to the historical Miners Hall. Efficiency measures include reuse of pre-existing doors, installation of energy efficient lighting, improved insulation, low flow fixtures; Heating and cooling provided by a ductless HVAC system with heat recovery units;
	Upgrades to the Rossland Museum. Efficiency measures include, improved insulation, new windows, low flow fixtures, energy efficient lighting.
Corporate Actions Proposed for 2017	
	Moving forward with implementing street light policy by removing some street lights and replacing all with LED lights.
	Completion of upgrades to the historical Miners Hall.
	Completion of upgrades to the Rossland Museum.

2016 ENERGY GENERATION ACTIONS

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	
Community-Wide Actions Proposed for 2017	

Corporate Actions Taken in 2016	
	Sustainability Commission investigating feasibility of using pressure reducing valve adjacent City Hall to generate electricity.
	Sustainability Commission installed a solar monitoring station on Public Works Building to gather data for making decisions on solar installation in Rossland.
Corporate Actions Proposed for 2017	
	With grant assistance, hoping to conduct Level 2 Building Audits on all City Buildings.
	If grant is forthcoming from SOLAR Now, hoping to do a solar panel installation on a prominent City Building downtown (Library).

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 ?	Yes

2016 GREENSPACE/ NATURAL RESOURCE PROTECTION ACTIONS

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 2016	
	Restoration of the Centennial Wetland at the headwaters of Trail Creek, a creek that runs through Rossland
	Continued with restoration of Jubilee Wetland adjacent Rossland Summit School.

Community-Wide Actions Proposed for 2017	
	Continue implementing the restoration plan for Centennial Wetland.

Corporate Actions Taken in 2016	
Corporate Actions Proposed for 2017	
	Will plant about 20 trees along Washington St and plant boulevards with drought resistant species.

Greenspace	
Does your local government have urban forest policies, plans or programs?	No

2016 SOLID WASTE ACTIONS

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	
Community-Wide Actions Proposed for 2017	
	The Food Task Force (Sustainability Commission) will be doing some education on backyard

	composting.

Corporate Actions Taken in 2016	
	Have compost bucket for employees of City Hall.
	Continued support for Regional Zero Waste program.
	Continue recycling program and discourage the overuse of paper. Council continue to use laptops instead of printing Agendas
Corporate Actions Proposed for 2017	
	Continued support for Regional Zero Waste program.

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?	No

2016 TRANSPORTATION ACTIONS

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	
	With assistance from Bike BC and ICBC, the City installed a new separated bike lane and multi-purpose pathway on a major collector road (Washington St) in association with a major infrastructure upgrade.
	New Food Security Task Force set up with the Sustainability Commission with the goal of increasing Rossland's food security.
	Council helped fund 'free' bus to ski hill in the winter. Heavily used by locals and tourists and greatly reduces vehicle trips.

Community-Wide Actions Proposed for 2017	
	New multi purpose pathway to be installed on Leroi Ave, Spokane St and Davis St as part of a major infrastructure upgrade.

Corporate Actions Taken in 2016	
	City joined 3 employees to the Rossland Car Share.
	Continued Support of Rossland Mountain Market.
	Purchased four new fuel efficient vehicles to replace older models.
	Installed anti idling signage in strategic places around town.
	Council approved the Climate Change Disruptor Pilot Project, which will measure the real-time data of the City's vehicle fuel usage through sensors.
Corporate Actions Proposed for 2017	

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)	
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

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	
	Continue to participate in Regional Liquid Waste Management Plan
Community-Wide Actions Proposed for 2017	

Corporate Actions Taken in 2016	
	Community is fully water metered with a volumetric rate structure.
	Continual lowering of water service lines to reduce the need for winter “bleeding” of pipes.
	Ongoing leak detection.
	Replacement of 100 year old water line on Washington St
Corporate Actions Proposed for 2017	
	Replacement of aging infrastructure on Spokane St, First Ave, Leroi Ave and Davis St – 1025m of water line.
	Will complete an inflow and infiltration study in City’s sewer system to reduce additional flows into the system.
Water Conservation	
Does your local government have water conservation policies, plans or programs?	Yes

2016 CLIMATE CHANGE ADAPTATION ACTIONS

Climate Change Adaptation Actions

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 Adaptation Actions Taken in 2016	
	Rossland is participating in a pilot project to evaluate, refine, and support uptake of the State of Climate Adaptation and Resilience in the Basin (SoCARB) indicator suite. SoCARB was developed in 2014 as a result of a research partnership between Columbia Basin Trust’s Communities Adapting to Climate Change Initiative.
	Implementation of the City’s Community Wildfire Protection Plan with assistance from UBCM Strategic Wildfire Prevention Initiative.
	Focussed landscaping plant selection on drought resistant native species
	Joined the Regional Emergency Preparedness program to have better support in the event of an emergency.
Climate Change Adaptation Actions Proposed for 2017	

Resources you have used to support climate change adaptation (e.g. Plan2Adapt , Preparing for Climate Change: Implementation Guide)	
	Rossland Climate Change Adaptation Plan

In 2016 did you consider climate change impacts in any of the following areas? (check if yes)	
Risk reduction strategies	
Risk and Vulnerability assessment	✓
Asset management	✓

Infrastructure upgrades (e.g. stormwater system upgrades)	✓
Cross-department working groups	✓
Emergency response planning	✓
Land-use policy changes (eg. OCP, DPA)	✓
Economic diversification initiatives	
Ecosystem-based approaches (incl. shorelines)	
Incentives (e.g. property owner reducing stormwater run-off)	
Public education and awareness	✓
Research (e.g. mapping, participation in studies)	✓
Other (Please Identify):	

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.

Community-Wide Actions Taken in 2016	
Community-Wide Actions Proposed for 2017	

Corporate Actions Taken in 2016	

Corporate Actions Proposed for 2017	

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

INNOVATION AND PEER-TO-PEER LEARNING

Innovation

This section provides the opportunity to showcase an innovative Corporate and/or Community-Wide GHG reduction or climate change adaptation activity that your local government has undertaken and that has had 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
Corporate Innovative 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 box below.

Programs and Funding
UBCM Strategic Wildfire Protection Program Federal Gas Tax Program Columbia Basin Trust Clean Water and Waste Water Fund Bike BC Community Energy Association BC Hydro Columbia Fish and Wildlife Compensation Program

2016 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:	494.58
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:	14.77
TOTAL A: CORPORATE GHG EMISSIONS FOR 2016	509.35

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:

OPTION 1 PROJECTS	REDUCTIONS
Energy Efficient Retrofits	
Solar Thermal	
Household Organic Waste Composting	
Low Emission Vehicles	
Avoided Forest Conversion	
TOTAL B: REDUCTIONS FROM OPTION 1 PROJECTS FOR 2016	0

If applicable, please report the names and 2016 GHG emissions reductions (in tonnes of carbon dioxide equivalent (tCO₂e)) being claimed from Option 2 GHG Reduction Projects:

OPTION 2 PROJECT NAME	REDUCTIONS
TOTAL C: REDUCTIONS FROM OPTION 2 PROJECTS FOR 2016	0

If applicable, please report the number of offsets purchased (in tonnes of carbon dioxide equivalent (tCO₂e)) from an offset provider for the 2016 reporting year:

(NOTE: DO NOT INCLUDE ANY FUNDS THAT MAY BE SET ASIDE IN A CLIMATE ACTION RESERVE FUND)

OFFSET PROVIDER NAME	OFFSETS
TOTAL D: OFFSETS PURCHASED FOR 2016	0

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

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)) = 509.35 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.

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.

For purposes of Level 3 recognition, if applicable, please identify any new or ongoing corporate or community wide GHG reduction projects (other than an Option 1 or Option 2 project) undertaken by your local government that reflects a significant investment of time or financial resources and is intended to result in significant GHG reductions:

PROJECT NAME:

Climate Action Reserve Fund Bylaw places CARIP funds and an additional 25\$ per tonne of measurable greenhouse gas emissions annually into a Climate Action reserve fund to be used for GHG reduction initiatives.

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:

<input type="checkbox"/>	Level 1 – Demonstrating Progress on Charter Commitments	
<input type="checkbox"/>	Level 2 – Measuring GHG Emissions	
<input checked="" type="checkbox"/>	Level 3 – Accelerating Progress on Charter Commitments	<input checked="" type="checkbox"/>
<input type="checkbox"/>	Level 4 - Achievement of Carbon Neutrality	