

Climate Action Revenue Incentive Program (CARIP) Public Report for 2017

Columbia Shuswap Regional District

Ben Van Nostrand, Team Leader
Environmental Health Services
bvannostrand@csrd.bc.ca
250.833.5940
May 22, 2018



The Columbia Shuswap Regional District 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.

2017 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, and centred) plays an especially important role in energy and GHG reduction.

Community-Wide Actions Taken in 2017	
	No new Regional Growth Strategy, Official Community Plans, or Zoning Bylaws were adopted by the CSRD in 2017.
	CSRD continues to contribute to Shuswap Trails Roundtable – a regional leadership body working to advance active transportation in the Shuswap area.
Community-Wide Actions Proposed for 2018	

Corporate Actions Taken in 2017	
	Continued work to ensure the CSRD is carbon neutral.
Corporate Actions Proposed for 2018	
	Continued work to ensure the CSRD is carbon neutral.

Broad Planning		
What is (are) your current GHG reduction target(s)?	To be carbon neutral.	
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"> Official Community Plan (OCP) 	Yes
Does your local government have a corporate GHG reduction plan?		Yes
Does your local government have a climate reserve fund or something similar?		Yes

2017 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 2017	
Community-Wide Actions Proposed for 2018	

Corporate Actions Taken in 2017	
	Continuous plans to upgrade buildings for energy efficiency
Corporate Actions Proposed for 2018	
	Energy efficient lighting replacement where needed.

2017 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 2017	
	Not applicable.
Community-Wide Actions Proposed for 2018	
	Not applicable.
Corporate Actions Taken in 2017	
	Not applicable
Corporate Actions Proposed for 2018	
	Not applicable.

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

2017 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 2017	
	Purchase agreement approved for the Mara Lake/Sicamous rail corridor
	Ongoing Shuswap Regional Trails Roundtable meetings promoting greenway corridors
Community-Wide Actions Proposed for 2018	
	Mara Lake CP Rail trail system development

Corporate Actions Taken in 2017	
	No specific actions taken.
Corporate Actions Proposed for 2018	
	No specific plans for 2018.
Greenspace	
Does your local government have urban forest policies, plans or programs?	No

2017 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 2017	
	The CSRD continued to advance programs related to commercial food waste composting.
Community-Wide Actions Proposed for 2018	
	Working towards implementation of a commercial food waste ban.
	Developing a composting facility in Revelstoke.
Corporate Actions Taken in 2017	
	Food waste collection program implemented at the main CSRD office building.
Corporate Actions Proposed for 2018	

Solid Waste	
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

2017 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 2017	
	Continued planning on parallel trail construction programs.
Community-Wide Actions Proposed for 2018	
	Improved biking and trail systems
Corporate Actions Taken in 2017	

Corporate Actions Proposed for 2018	
Transportation	
Does your local government have policies, plans or programs to support:	
• Walking	Yes
• Cycling	Yes
• Transit Use	No
• Electric Vehicle Use	No
• Other	Yes
Electoral Area C Parks Plan is recommending an active transportation plan for Area C.	
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

2017 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	
Upgrades to community water systems	
Community-Wide Actions Proposed for 2018	
Sunnybrae water system to be commissioned for service in 2018.	
Corporate Actions Taken in 2017	
Area C sewer upgrade planning work	
Corporate Actions Proposed for 2018	
Continued work related to a community sewer system for Electoral Area C.	
Water Conservation	
Does your local government have water conservation policies, plans or programs?	Yes

2017 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 2017	
<input type="checkbox"/>	Ongoing risk assessment work.
<input type="checkbox"/>	
Climate Change Adaptation Actions Proposed for 2018	
<input type="checkbox"/>	Nothing specific to report.
<input type="checkbox"/>	
Resources you have used to support climate change adaptation (e.g. Plan2Adapt, Preparing for Climate Change: Implementation Guide)	
<input type="checkbox"/>	Provincial government supplied education and resource materials
<input type="checkbox"/>	
In 2017 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):	<div style="text-align: center;">Yes</div> <div style="text-align: center;">Yes</div>

2017 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 2017	
	Not applicable.
Community-Wide Actions Proposed for 2018	
	Not applicable.

Corporate Actions Taken in 2017	
	Not applicable.
Corporate Actions Proposed for 2018	
	Not applicable.

Other	
Are you familiar with the Community Lifecycle Infrastructure Costing Tool (CLIC) ?	No
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
The CSRD continues to work towards planning and operational initiatives that incorporate carbon neutral/carbon reduction principles.
Corporate Innovative Action
Continuous improvements to corporate building and corporate capital goods.

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
Partnerships with the Columbia Basin Trust for funding food waste diversion programs in Revelstoke.

2017 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 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:	494.59
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:	48.51
TOTAL A: CORPORATE GHG EMISSIONS FOR 2017	543 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 2017 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	Not applicable
Solar Thermal	Not applicable
Household Organic Waste Composting	Not applicable

Low Emission Vehicles	Not applicable
Avoided Forest Conversion	Not applicable
TOTAL B: REDUCTIONS FROM OPTION 1 PROJECTS FOR 2017	0 tCO₂e

If applicable, please report the names and 2017 GHG emissions reductions (in tonnes of carbon dioxide equivalent (tCO₂e)) being claimed from Option 2 GHG Reduction Projects:

OPTION 2 PROJECT NAME	REDUCTIONS
Landfill Gas Collection, Transmission, and/or Flaring System for the Salmon Arm Landfill	543
TOTAL C: REDUCTIONS FROM OPTION 2 PROJECTS FOR 2017	543 tCO₂e

If applicable, please report the number of offsets purchased (in tonnes of carbon dioxide equivalent (tCO₂e)) from an offset provider for the 2017 reporting year:

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

OFFSET PROVIDER NAME	OFFSETS
Not applicable	
TOTAL D: OFFSETS PURCHASED FOR 2017	0 tCO₂e

TOTAL REDUCTIONS AND OFFSETS FOR 2017 (Total B+C+D) = 543 tCO₂e

Corporate GHG Emissions Balance for 2017

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 2017 = (A – (B+C+D)) = 0 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 (i.e.: 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:

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