

## Survey Template

### For the *2016 CARIP Climate Action/Carbon Neutral Progress Survey*

The 2016 CARIP Climate Action/Carbon Neutral Survey uses SurveyMonkey® software. SurveyMonkey® acquired FluidSurveys™, which is the software that was used for CARIP reporting for the past 2 years.

**Local governments are required to submit the *2016 CARIP Climate Action/Carbon Neutral Progress Survey* on or before June 1, 2017.**

Local governments are also required to publicly report the information submitted in the *2016 CARIP Climate Action/Carbon Neutral Progress Survey*. Local governments can generate a report by:

- creating a report based on the populated Survey Template; or,
- creating a report in another format that contains the information submitted in the 2016 CARIP Climate Action/Carbon Neutral Progress Survey.

In response to local government input, the Survey Template has been created to assist with collecting information for the *2016 CARIP Climate Action/Carbon Neutral Progress Survey*, and follows the same structure as the survey.

Responses entered into the Survey Template can be cut and pasted into the online survey. The survey asks for up to five actions in each category, and there is a place in the survey to report additional actions if desired. In the Survey Template, simply add more lines to the tables to report more than five actions.

Use of the Survey Template is recommended. Local governments are encouraged to edit the populated Survey Template and use it for their public report, **as the SurveyMonkey® survey will not enable survey respondents to generate a report of their responses.**

Further information on CARIP can be found on the [Ministry of Community Sport and Cultural Development's website](#).

The Government of BC will not collect, use, or disclose personal information using SurveyMonkey®. Please be aware however that IP addresses are collected by SurveyMonkey® itself, and these IP addresses and other information collected will be stored on SurveyMonkey®'s servers located outside of Canada. Please do not provide any third-party information (i.e. talk about others) in your responses to the survey.

# Climate Action Revenue Incentive (CARIP) Public Report for 2016

**Local Government:** District of Clearwater

**Report Submitted by:**

**Name:** Wesley Renaud

**Role:** Director of Finance

**Email:** wrenaud@docbc.ca

**Phone:** 250-674-2257



**Date:** June 1, 2017

The District of Clearwater 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	
	The Districts' Healthy Living Program promoted Bike to Work Week throughout the community.
Community-Wide Actions Proposed for 2017	
	Continue to promote Bike to Work Week.

Corporate Actions Taken in 2016	
	Working on asset management plan and policy.
Corporate Actions Proposed for 2017	
	Finalize asset management plan and policy. Adopt asset management strategy.
	Continue to research and investigate the opportunity to establish a District energy system for the North Thompson Sportsplex, TNRD Library, and the Clearwater Hospital (Interior Health).

<b>Broad Planning</b>	
What is (are) your current GHG reduction target(s)?	To reduce community-wide GHG emissions by 10% below 2007 levels by the year 2020, and 33% below 2007 levels by 2050.
Has your local government used the Community Energy and Emissions Inventory (CEEI) to measure progress?	<b>No</b>
What plans, policies or guidelines govern the implementation of climate mitigation in your community?	
<ul style="list-style-type: none"> <li>• Community Energy and Emissions (CEE) Plan</li> <li>• Climate Action Plan</li> <li>• Integrated Community Sustainability Plan</li> <li>• Official Community Plan (OCP)</li> <li>• Regional Growth Strategy (RGS)</li> <li>• Do not have a plan</li> <li>• Other: Green Energy Scan</li> </ul>	<b>Yes</b> <b>No</b> <b>Yes</b> <b>Yes</b> <b>Yes</b> <b>No</b> <b>Yes</b>
Does your local government have a corporate GHG reduction plan?	<b>No</b>
Does your local government have a climate reserve fund or something similar?	<b>Yes</b>

## 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.

<b>Community-Wide Actions Taken in 2016</b>	
	Promoted BC Hydro Power Smart in newsletters.
	Water meters are mandatory in new construction.
<b>Community-Wide Actions Proposed for 2017</b>	
	Continue promotion of BC Hydro Power Smart and other similar type programs.
	Begin a voluntary water meter reading process to collect data to determine usage and costs.

<b>Corporate Actions Taken in 2016</b>	
	Installed LED lighting at Dutch Lake Community Center Gym & Office.
	Installed LED lighting at North Thompson Sportsplex Curling Rink.
	Planning for 2017 projects (i.e.: Grant application submitted for bio-mass plant at the North Thompson Sportsplex).
<b>Corporate Actions Proposed for 2017</b>	
	Installing new energy efficient boiler at Dutch Lake Community Center.
	Installing new chiller at North Thompson Sportsplex.
	Installing Bio-Mass facility at North Thompson Sportsplex.
	Installing LED lighting at North Thompson Sportsplex.
	Installed more energy efficient lighting at Dutch Lake beach House.

## 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.

<b>Community-Wide Actions Taken in 2016</b>	
	Facilitated and continued dialogue with community groups on possible District energy systems and Bio-Mass systems.
<b>Community-Wide Actions Proposed for 2017</b>	
	Facilitate and continue dialogue with community groups on possible District energy systems and Bio-Mass systems.

Corporate Actions Taken in 2016	
	Monitored successes and challenges of newly installed Bio-Mass facility at the Dutch Lake Community Center.
Corporate Actions Proposed for 2017	
	Investigate further use of solar panels to reduce Hydro consumption of waste water treatment plant.
	Submit grant application to CELP for Bio-Mass plant at North Thompson Sportsplex.
	Design & construct a Bio-Mass energy plant at the North Thompson Sportsplex.

Energy Generation	
Is your local government developing, or constructing:	
• A district energy system	Yes
• 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 <a href="#">BC Climate Action Toolkit</a> ?	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.

<b>Community-Wide Actions Taken in 2016</b>	
	The District is an active participant in a Forestry Working Group.
	The District supports the Trails Task Force.
	The District maintains a trails master plan.
<b>Community-Wide Actions Proposed for 2017</b>	
	Developing a Park Land Use Master Plan.
	Continue to support the Trails Task Force and trails development.
	Building a multi-use pathway to connect two areas of the community – hospital/seniors to shopping area.

<b>Corporate Actions Taken in 2016</b>	
<b>Corporate Actions Proposed for 2017</b>	
	Evaluate watering programs for District parks and other lands.
	Apply for Brownfield grant to assess contaminated site.

<b>Greenspace</b>	
Does your local government have urban forest policies, plans or programs?	<b>No</b>

## 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.

<b>Community-Wide Actions Taken in 2016</b>	
	Continued to promote recycling and composting in conjunction with the TNRD Eco-Depot.
	Sale and promotion of composters, District provides battery recycling.
	Hosted spring Pitch-In (community garbage cleanup on roadsides) and hosted BBQ for volunteers.

<b>Community-Wide Actions Proposed for 2017</b>	
	Continue with selling composters and battery recycling.
	Continue to promote spring pitch in and taking pride in our community.
	Continue to support and promote recycling and composting with social media and the District newsletter.

<b>Corporate Actions Taken in 2016</b>	
	Continued to work on reducing paper usage through further use of electronic technology.
<b>Corporate Actions Proposed for 2017</b>	
	Continue to work on reducing paper usage through further use of electronic technology.
	Upgrade sewer main to help accommodate new users to the sewer system.
	Apply for Cleanwater Wastewater grant to build new sewer infrastructure in order to accommodate new users to the system.

<b>Solid Waste</b>	
Does your local government have construction and demolition waste reduction policies, plans or programs?	<b>Yes</b>
Does your local government have organics reduction/diversion policies, plans or programs?	<b>Yes</b>

## 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.

<b>Community -Wide Actions Taken in 2016</b>	
	BC Transit Review – To establish efficiencies in current system. Entered into 3-year agreement with BC Transit to run community loop based on success of last year’s pilot project, to try to encourage people to use public transit rather than their own vehicles.
	Applied for grants to help build a trail along Park Drive, connecting citizens to the shopping center.



<b>Community-Wide Actions Proposed for 2017</b>	
	Design & build Park Drive trail, a 1.57km multi-use pathway to move alternative traffic modes, connecting community amenities.
	Continue to support Trails Task Force and new trails that help connect Clearwater together.
	Continue to support and promote transit use.

<b>Corporate Actions Taken in 2016</b>	
	Continued enforcement of District anti-idling policy for fleet vehicles.
	Promoted Bike to Work week.
	Promoted walking, running, and various healthy living programs.
<b>Corporate Actions Proposed for 2017</b>	
	Continue enforcement of District anti-idling policy for fleet vehicles.
	Promote Bike to Work week.
	Promote walking, running, and various healthy living programs.

<b>Transportation</b>	
Does your local government have policies, plans or programs to support:	
• Walking	<b>Yes</b>
• Cycling	<b>Yes</b>
• Transit Use	<b>Yes</b>
• Electric Vehicle Use	<b>No</b>
• Other (please specify)	<b>No</b>
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)?	<b>Yes</b>
Does your local government have policies, plans or programs to support local food production (thus reducing transportation emissions)?	<b>Yes</b>

## 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	
	Promoted water conservation in the community and the schools.
Community-Wide Actions Proposed for 2017	
	Promote water conservation in the community and the schools.

Corporate Actions Taken in 2016	
	Continued leak detection studies.
	Applied for grant to build a third Well to replace aging well currently in use.
	Continued work on SCADA project which will allow staff to remotely monitor the water and sewer system rather than have to drive out to site to check the systems.
	Commissioned new septage receiving facility to cover users between Barriere and Blue River, a radius of approximately 164km.
Corporate Actions Proposed for 2017	
	Continue leak detection studies.
	Build third well.
	Continue to work on SCADA project (estimated completion in 2018).
	Monitor efficiency and usage of septage receiving facility.
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	
	Funded GHG reserve using CARIP grant money.
	Adopted new zoning bylaw.
Climate Change Adaptation Actions Proposed for 2017	
	Continue to fund GHG reserve using CARIP grant money.

Resources you have used to support climate change adaptation (e.g. <a href="#">Plan2Adapt</a> , <a href="#">Preparing for Climate Change: Implementation Guide</a> )	

In 2016 did you consider climate change impacts in any of the following areas? (check if yes)	
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)	Yes

Incentives (e.g. property owner reducing stormwater run-off)	Yes
Public education and awareness	Yes
Research (e.g. mapping, participation in studies)	Yes
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	
	Replaced aging server and workstations with more energy efficient machines.
Corporate Actions Proposed for 2017	

<b>Other</b>	
Are you familiar with the <a href="#">Community Lifecycle Infrastructure Costing Tool (CLIC)</a> ?	<b>Yes</b>
Have you used CLIC?	<b>No</b>

## 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.

<b>Community-Wide Innovative Action</b>
<b>Corporate Innovative Action</b>

### 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.

<b>Programs and Funding</b>
Wells Gray Community Forest

## 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?	<b>Yes</b>
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:	158.89
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:	66.69
<b>TOTAL A: CORPORATE GHG EMISSIONS FOR 2016</b>	<b>225.58 tCO<sub>2</sub>e</b>

### 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 (tCO<sub>2</sub>e)) being claimed from Option 1 GHG Reduction Projects:**

OPTION 1 PROJECTS	REDUCTIONS
Energy Efficient Retrofits	
Solar Thermal	N/A
Household Organic Waste Composting	N/A

Low Emission Vehicles	N/A
Avoided Forest Conversion	N/A
<b>TOTAL B: REDUCTIONS FROM OPTION 1 PROJECTS FOR 2016</b>	<b>tCO2e</b>

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
<b>TOTAL C: REDUCTIONS FROM OPTION 2 PROJECTS FOR 2016</b>	<b>tCO2e</b>

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
N/A	
<b>TOTAL D: OFFSETS PURCHASED FOR 2016</b>	<b>tCO2e</b>

**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)) = 225.58 tCO<sub>2</sub>e**

**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:**

<b>PROJECT NAME:</b>

**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	<b>X</b>
<input type="checkbox"/>	Level 3 – Accelerating Progress on Charter Commitments	
<input type="checkbox"/>	Level 4 - Achievement of Carbon Neutrality	
<input type="checkbox"/>	Not Sure	