

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: City of Penticton



Report Submitted by:

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Date: May 31, 2017

The [insert Local Government here] 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	
	Zoning Bylaw Update
	Penticton Creek Revitalization Master Plan
	Solid Waste, Recycling and Yard Waste Cart System Conversion
	Continuation of Urban Forest Strategy
	OCP review and scoping for 2017 revision
Community-Wide Actions Proposed for 2017	
	Official Community Plan review underway
	Next phase of Penticton Creek revitalization underway

Corporate Actions Taken in 2016	
	Asset Management Study
	Facilities Master Plan Phase II
	Investment in GIS system for electrical and water utilities
Corporate Actions Proposed for 2017	
	Hiring of a Community Sustainability Coordinator that focuses on solid waste reduction and climate action reporting.
	Asset management program continuing

Broad Planning	
What is (are) your current GHG reduction target(s)?	<i>5% overall community reduction in GHG emissions from 2007 levels by 2020 (This represents a 20% reduction per person). 10% overall community reduction in GHG emissions by 2030 (This represents a 35% reduction per person). Our Corporate reduction goals are to reduce GHG emissions by 20% by 2020.</i>

Has your local government used the Community Energy and Emissions Inventory (CEEI) to measure progress?	No
What plans, policies or guidelines govern the implementation of climate mitigation in your community?	
• Community Energy and Emissions (CEE) Plan	No
• Climate Action Plan	No
• Integrated Community Sustainability Plan	No
• Official Community Plan (OCP)	Yes
• Regional Growth Strategy (RGS)	No
• Do not have a plan	No
• Other: Community-Wide Action Plan, and Corporate Action Plan	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

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	
	Continuation and strengthening of the DCC reduction program for sustainable building.
	Home Energy Loan Program
Community-Wide Actions Proposed for 2017	
	Home Energy Loan Program

Corporate Actions Taken in 2016	
	Replacement of old light fixtures with LED fixtures at curling rink.
	Replacement of old light fixtures with new LED technology at McLaren Arena.
	Installation of high efficiency packaged furnace (air handling unit) for the soccer bubble.
	Installed new infrared, tube heater system in the garage at the City Yards.
	Construction of a new dog shelter facility designed for high energy efficiency.

Corporate Actions Proposed for 2017	
	New energy efficient cooling unit at Leir House.
	New energy efficient cooling unit at City Hall.
	Installed three new energy efficient RTU's (Rooftop Units) at Penticton Trade and Convention Centre.
	Feasibility study for upgrade or replacement of Memorial arena, either option would promote improvements in energy efficiency.

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	
	Feasibility study for energy generation project at local level with pilot project planned for 2018

Corporate Actions Taken in 2016	
	Promoting net metering through our electrical utility to assist those who wish to have on site energy generation – ongoing.
Corporate Actions Proposed for 2017	

	Promoting net metering through our electrical utility to assist those who wish to have on site energy generation – ongoing.
	Investigating options on reducing electrical energy charges from FortisBC, including initiatives such as: solar powered covered parking lots/roofs (potentially in the form of community/urban solar gardens); battery storage, and demand management.

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	
	Promoting trail use through upgrades at the KVR Trail parking lot: trail wayfinding maps; expanded gravel parking lot, picnic tables and planting trees and native vegetation.
	Planted a combined 51 trees and upgraded street tree planting specifications (larger planting pits, include irrigation) in the 100/200 block of Main Street as part of the Downtown Revitalization Project – ongoing through 2017.
	Participated in 7 th TD Tree Days at Riverside Park. It is a collaborative riparian restoration project involving City of Penticton, Okanagan Stewardship Society and TD Friends of the environment Foundation. Organized and facilitated by City Parks staff, phase 1 of the project included removing invasive plant species and planting 550 native shrubs with a focus on riparian area restoration at a volunteer planting event.

	Replaced 41 trees in 10 parks and boulevards as part of the Tree Planting Program.
	Planted 57 trees, landscaping and drought tolerant grass species as part of the Lakeview Cemetery Expansion.
	Purchased Tree Gator bags to increase water holding capacity for street tree watering program.
	Design and installation of rain gardens in Downtown revitalization project, gardens act as storm water collection and drainage interceptors before rain water reaches drainage pipes.
	Installed demonstration 'pollinator' garden to promote gardening and importance of bees
Community-Wide Actions Proposed for 2017	
	Conduct Ellis Creek landscaping project, which will remove non-native plant species and replace with native plants.
	Phase II of Penticton Creek Master Plan: Continue creek restoration from Ellis Street bridge to the bridge at Nanaimo Avenue.
	Ongoing - Acquire lands at strategic locations to improve opportunities at existing parks, to provide new recreation options in the community, and to improve connectivity between parks as part of the Parks and Recreation Master Plan.
	Engage in the planning and design of a Pump Track for downhill mountain biking skills development.

Corporate Actions Taken in 2016	
	Parks and Recreation Master Plan: A working document focused on public consultation that will guide the future of parks, recreation programs, green spaces, and natural areas.
	Support operational budgets for maintenance programs that benefit the environment: urban forest, tree watering, horticultural maintenance
	Utilize Integrated Pest Management (IPM) principles in all aspects of landscape management; in effort to minimize use of pesticides; monitoring, threshold tolerance, use of vinegars and soaps as control agents
	Replaced irrigation system and increased efficiency at Columbia Park.
Corporate Actions Proposed for 2017	
	Phase 1 of the Urban Forest Strategy: Ongoing information gathering, including gathering GPS data on over 2200 trees.
	Replacing irrigation systems at one park and one cemetery to increase overall efficiency.
	Encourage staff wellness by promoting discounted rates at the Adult Fitness Room and increasing rates for the Fitness Rebate Program.
	Support operational budgets for maintenance programs that benefit the environment: urban forest, tree watering, horticultural maintenance
	Utilize Integrated Pest Management (IPM) principles in all aspects of landscape management; in effort to minimize use of pesticides; monitoring, threshold tolerance, use of vinegars and soaps as control agents
	Installation of rain gardens along the 100 block of Main St. to reduce the load on the storm water system, while also filtering contaminants from the water.

Greenspace	
Does your local government have urban forest policies, plans or programs?	Yes

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	
	Implementation of automated garbage, recycling, and yard waste Cart Program.
	Adopted new regulations for garbage and recycling collection.
	Encouraged increased recycling participation by limiting garbage volumes.
	Conducted curbside recycling and yard waste audits for single and multifamily residences to help identify common contaminants entering the solid waste stream.
	Conducted educational campaign focused on reducing recycling contamination and increasing recycling participation.
Community-Wide Actions Proposed for 2017	
	Increase number of recycling facilities in parks and recreation areas.
	Increase educational campaign through various media (social media and internet, radio, newsprint and audits) focused on reducing common recycling contaminants and increasing recycling participation.
	Continue to conduct curbside recycling and yard waste audits for single and multifamily residences to help identify common contaminants entering the solid waste stream.
	City staff to conduct presentations at public events focused on recycling education and compliance.
	Develop remediation plan to lower percentage of contaminants entering the recycle stream.

Corporate Actions Taken in 2016	
Corporate Actions Proposed for 2017	
	Hire Community Sustainability Coordinator to focus on solid waste and improving overall garbage, recycle and yard waste best practices.
	Develop Solid Waste Collection RFP that favours innovative technologies and low emission vehicles.

Solid Waste	
Does your local government have construction and demolition waste reduction policies, plans	No

or programs?	
Does your local government have organics reduction/diversion policies, plans or programs?	Yes

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	
	Widening of sidewalks and installation of bike racks on the 200 block of Main Street as part of the downtown revitalization project.
	Pay parking program extended along waterfront and further through the downtown.
	Investment in feasibility study of bike lane from Penticton to Summerland along Highway 97.
	Carpool program launched for City owned parking lots in the downtown.
	Investigation into bringing a car-share program to Penticton (Ogo Car Co-OP) – ongoing.
Community-Wide Actions Proposed for 2017	
	Investigation into bringing a car-share program to Penticton (Ogo Car Co-OP) – ongoing.

Corporate Actions Taken in 2016	
	Promotion of Bike to Work Week and Carpool Month – ongoing through 2017.
	Participate in GFL’s recycling program for automotive fluids - ongoing.
	Maximize the utilization of 4X4 trucks and other vehicles into a shared pool to allow for use by all departments reducing need for additional vehicles in the fleet.
	Educating staff on the benefits of good driving habits and promoting our anti-idling policy
Corporate Actions Proposed for 2017	
	Promotion of Bike to Work Week and Carpool Month.
	Replacing of 12 aging vehicles in fleet for new and more fuel efficient units.
	Investigate feasibility of opting in to a recycled coolant program.
	Route planning through GPS to maximize travel efficiency.
	Investigate the feasibility of single engine sweepers to maximize fuel efficiency.

Transportation	
Does your local government have policies, plans or programs to support:	
• Walking	Yes
• Cycling	Yes
	Yes

<ul style="list-style-type: none"> • Transit Use • Electric Vehicle Use • Other (please specify) 	Yes No
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	
	Irrigation system metering program implementation.
	Public education regarding water smart practices which will aim at increasing water use efficiency and lowering consumption rates.
	Implementation of the utility rate review to incentivize water conservation.
Community-Wide Actions Proposed for 2017	

Corporate Actions Taken in 2016	
	Utility rate review implementation.
	Installation of dissolved oxygen probes to better control aeration at the waste water treatment plant.
Corporate Actions Proposed for 2017	
	Installation of new pumping technology on the Dissolved Air Flotation process, increasing energy savings and decreasing chemical (Polymer) use.
	Increasing capacity for treated effluent re-use: this will allow for more sites to be irrigated by treated effluent.

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	
	Hired a Community Sustainability Coordinator as a term employee.
	Conducted an Official Community Plan review.
	Reviewed "Community Climate Action Plan" implementation strategy.
	Continue on with Community Sustainability Advisory Committee work – ongoing.
Climate Change Adaptation Actions Proposed for 2017	
	Hiring of a full time Community Sustainability Coordinator in a permanent position.
	Continue to review and develop a new Official Community Plan
	Continue on with Community Sustainability Advisory Committee work – ongoing.

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

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):	
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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	
	Participation in the “Solar Fair Symposium – First things first Okanagan”

Corporate Actions Taken in 2016	
Corporate Actions Proposed for 2017	

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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
N/A
Corporate Innovative Action
N/A

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
N/A

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:	1,507
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:	
TOTAL A: CORPORATE GHG EMISSIONS FOR 2016	1,507 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 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	3,696
TOTAL B: REDUCTIONS FROM OPTION 1 PROJECTS FOR 2016	3,696 tCO₂e

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	tCO₂e

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	tCO₂e

TOTAL REDUCTIONS AND OFFSETS FOR 2016 (Total B+C+D) = 3,696 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)) = -2189 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:

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