## **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<sup>TM</sup>, 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 <u>Ministry of Community Sport and Cultural</u> <u>Development's website</u>.

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 Langford** 

Report Submitted by: Name: Leah Stohmann

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Date: May 31, 2017

The City of Langford 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**

Maintained the amenity contribution and application fee reductions of 35-75% for new multi-family, mixed use, affordable housing and rental housing projects with a height of at least 4 stories in the downtown core, where there is easy access to frequent transit, services, and amenities within walking distance. This Policy has supported the approval of 365 new multi-family units in 2015-16.

Received Council direction to create a revitalization tax exemption bylaw to incentivize construction of high tech and office space in the City, thereby increasing access to local jobs and decreasing commuting times

#### **Community-Wide Actions Proposed for 2017**

Conduct Official Community Plan review, including a review of Smart Growth policies

(	Corporate Actions Taken in 2016	
		n/a
	Corporate Actions Proposed for 2017	
		n/a

Broad Planning					
	Target	2020	2030	2050	
What is (are) your current GHG reduction target(s)?	Total greenhouse gas emissions change	-15%	-25%	-33%	
Has your local government used the Community Energy and Emissions Inventory (CEEI) to measure progress?		to			

What plans, pol	icies or guidelines govern the implementation of climate mitigation in your	
community?		
•	Community Energy and Emissions (CEE) Plan	Yes
•	Climate Action Plan	No
•	Integrated Community Sustainability Plan	No
•	Official Community Plan (OCP)	Yes
•	Regional Growth Strategy (RGS)	Yes
•	Do not have a plan	No
•	Other:	n/a
Does your local	government have a corporate GHG reduction plan?	No
Does your local	government have a climate reserve fund or something similar?	No

## **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.

Coi	Community-Wide Actions Taken in 2016		
	Installed LED streetlights as part of several capital improvement projects and as a requirement of		
	new developments		
	Installed solar powered speed alert signs		
Coi	mmunity-Wide Actions Proposed for 2017		
	Continue to install LED streetlights as part of capital improvement projects to replace existing stock		
	and maintain requirement for developers to install in new subdivisions/roads		
	Continue to install solar powered speed alert signs as possible		

Co	Corporate Actions Taken in 2016		
	Lighting upgrades to City Hall completed		
	New energy and heat efficient Rugby Canada building currently under construction on City land		
Co	rporate Actions Proposed for 2017		
	2 HVAC systems planned to be upgraded at City Hall		
	New energy and heat efficient Rugby Canada building to be completed		

## **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.

Co	Community-Wide Actions Taken in 2016			
	New YMCA which incorporates a waste heat recovery district energy system was completed in 2016			
Co	Community-Wide Actions Proposed for 2017			
	n/a			

Coi	Corporate Actions Taken in 2016		
	Currently designing a new waste heat recovery district energy system to be installed at a sewer lift		
	station, which will have the capacity to heat all of the Eagle Ridge Rec Centre		
	Continued operating the waste heat recovery system at City Centre Park		
Coi	rporate Actions Proposed for 2017		
	Install new waste heat recovery district energy system for Eagle Ridge Rec Centre		
	Continue operating the waste heat recovery system at City Centre Park		

Energy Generation		
Is your local gov	ernment developing, or constructing:	
•	A district energy system	Yes
•	A renewable energy system	No
Is your local gov	ernment operating:	
•	A district energy system	Yes
•	A renewable energy system	No
Is your local gov energy provider	ernment connected to a district energy system that is operated by another ?	No
Are you aware o	of the Integrated Resource Recovery guidance page on the <u>BC Climate Action</u>	Yes

## **2016 GREENSPACE/ NATURAL RESOURCE PROTECTION**

## **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.

Cor	mmunity-Wide Actions Taken in 2016	
	Approximately ten Development Permits were issued to designate and protect riparian areas and	
	other environmentally sensitive and/or greenspace areas	
	Approximately 110 new boulevard trees were planted	
	Invasive species removed and more than 500 seedlings planted in partnership with the Boy Scouts	
	Three new dedicated parks obtained, totally approximately 5,225 m2 in area	
	Approximately 68m of new trails completed	
Cor	Community-Wide Actions Proposed for 2017	
	Continue to protect riparian areas and environmentally sensitive areas as part of the development	
	permit process	
	Continue to secure greenspace and parkland in new developments, and look for other opportunities	
	to acquire strategic greenspace	
	Continue to require new boulevard trees to be planted in new subdivisions	
	Install signage to designate the City's portion of the designated Trans-Canada Trail	
	Work with the School District to secure an additional school site within the City	

Cor	Corporate Actions Taken in 2016		
	Continuing to operate and improve the asset management system to effectively and efficie	ntly track	
	the inventory age and maintenance requirements of City parks and trails		
Cor	Corporate Actions Proposed for 2017		
	Continue to operate and improve the asset management system		
Gre	Greenspace		
Do	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.

Co	Community-Wide Actions Taken in 2016	
	n/a	
Co	Community-Wide Actions Proposed for 2017	
	n/a	

Co	Corporate Actions Taken in 2016	
	City Hall continues to operate as a zero waste facility	
Co	Corporate Actions Proposed for 2017	
	Continue operating City Hall as a zero waste facility	

Solid Waste	
Does your local government have construction and demolition waste reduction policies, plans	
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.

Co	Community -Wide Actions Taken in 2016		
	3.5 km of new multi-use pedestrian/bike lanes were constructed		
	3.5 km of new sidewalks were constructed		
	Improved road pavement longevity by undertaking annual crack sealing and pothole/pavement		
	repair program		
	Commenced construction of West Shore Parkway completion project, to connect Sooke Rd with the		
	Trans-Canada Highway, which will substantially improve the efficiency of the transportation		
	network		

	Commenced construction of Bear Mountain Parkway completion project, to connect Millstream Rd	
	with the Trans-Canada Highway, which will substantially improve the efficiency of the	
	transportation network	
	6 new transit shelters installed	
	Completed McCallum Rd extension between Millstream Road and Leigh Rd	
	Completed the Atkins Ave bike lane project	
Coı	Community-Wide Actions Proposed for 2017	
	Continue to fill gaps in the bike lane/sidewalk network and extend bike lanes/sidewalks in new	
	developments	
	Approximately 8 new transit shelters planned for installation	
	A new transit exchange in Westhills will commence construction	
	Continue to improve road pavement longevity by undertaking annual crack sealing	
	Complete construction of West Shore Parkway completion project	
	Continue construction of Bear Mountain Parkway completion project	

Coı	Corporate Actions Taken in 2016		
	Utilize asset management software to effectively and efficiently track inventory age and		
	maintenance requirements		
	Continued staff alternative transportation incentive program		
	Participated in Bike to Work week		
Coı	Corporate Actions Proposed for 2017		
	Continue to utilize asset management software to effectively and efficiently track inventory age and		
	maintenance requirements		
	Continue staff alternative transportation incentive program		
	Participate in Bike to Work week		

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)	N/a
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)?	Yes
Does your local government have policies, plans or programs to support local food	No
production (thus reducing transportation emissions)?	

## 2016 WATER AND WASTEWATER ACTIONS

#### **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.

Co	Community-Wide Actions Taken in 2016		
	n/a		
Co	Community-Wide Actions Proposed for 2017		
	n/a		

Co	Corporate Actions Taken in 2016		
	Two new wells installed to provide non-potable sources of irrigation on City-owned properties		
Co	Corporate Actions Proposed for 2017		
	Continue looking for opportunities to provide alternate sources of water for irrigation where possible		
Water Conservation			
Do	es 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**

Completed two major culvert replacements and stormwater pond maintenance to ensure capacity of the stormwater system

#### **Climate Change Adaptation Actions Proposed for 2017**

Continue upgrading and expanding stormwater management network to increase resiliency

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

n/a

Risk reduction strategies	N/a
Risk and Vulnerability assessment	N/a
Asset management	Yes
nfrastructure upgrades (e.g. stormwater system upgrades)	Yes N/a
Cross-department working groups	Yes
Emergency response planning	N/a
Land-use policy changes (eg. OCP, DPA)	N/a
Economic diversification initiatives	N/a
Ecosystem-based approaches (incl. shorelines)	N/a
ncentives (e.g. property owner reducing stormwater run-off)	N/a
Public education and awareness	N/a
Research (e.g.mapping, participation in studies)	N/a N/a
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.

Coı	Community-Wide Actions Taken in 2016		
	n/a		
Coı	Community-Wide Actions Proposed for 2017		
	n/a		

Coi	Corporate Actions Taken in 2016		
	n/a		
Coi	Corporate Actions Proposed for 2017		
	n/a		

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			

## **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:	338.76
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:	613.36
TOTAL A: CORPORATE GHG EMISSIONS FOR 2016	952.12 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	313.2
Low Emission Vehicles	
Avoided Forest Conversion	
TOTAL B: REDUCTIONS FROM OPTION 1 PROJECTS FOR 2016	313.2 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
n/a	
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
n/a	
TOTAL D: OFFSETS PURCHASED FOR 2016	tCO2e

TOTAL REDUCTIONS AND OFFSETS FOR 2016 (Total B+C+D) = 313.2 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)) = 638.92 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:

Level 1 – Demonstrating Progress on Charter Commitments	
Level 2 – Measuring GHG Emissions	X
Level 3 – Accelerating Progress on Charter Commitments	
Level 4 - Achievement of Carbon Neutrality	
Not Sure	