

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

**Local Government:**  
City of Victoria



**Report Submitted by:**  
**Name:** Steve Young  
**Role:** Climate and Environmental Sustainability Specialist  
**Email:** [syoung@victoria.ca](mailto:syoung@victoria.ca)  
**Phone:** 250 361 0279

**Date:** 29/05/18

The City of Victoria 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, centred) plays an especially important role in energy and GHG reduction.

Community-Wide Actions Taken in 2017	
	Council approved draft Climate Leadership Plan for community review in support of meeting a 100% renewable energy target for 2050 and a 80% GHG emission reduction target by 2050 based on 2007 CEEI baseline.
	Engaged with stakeholders in development of Climate Leadership Plan
	Work continued on local area plans for the neighbourhoods of Fairfield, Gonzales and Vic West
Community-Wide Actions Proposed for 2018	
	Climate Leadership Plan finalized and adopted by Council
	Sustainable mobility planning initiated
	Sustainable solid waste planning initiated
	Building retrofit strategy initiated

Corporate Actions Taken in 2017	
	Asset management system deployment continued
Corporate Actions Proposed for 2018	
	Asset management system deployment continued
	Corporate energy management plan initiated

Broad Planning	
What is (are) your current GHG reduction target(s)?	100% renewable energy target for 2050 and a 80% GHG emission reduction target by 2050 based on 2007 CEEI baseline.

Are you familiar with your community's community energy and emissions inventory (e.g. CEEI or another inventory)?	<b>Yes</b>
What plans, policies or guidelines govern the implementation of climate mitigation in your community?	
• Community Energy and Emissions (CEE) Plan	<b>Yes</b>
• Community- Wide Climate Action Plan	<b>No</b>
• Integrated Community Sustainability Plan	<b>No</b>
• Official Community Plan (OCP)	<b>Yes</b>
• Regional Growth Strategy (RGS)	<b>Yes</b>
• Do not have a plan	
• Other:	
Does your local government have a corporate GHG reduction plan?	<b>No</b>

## 2017 BUILDING 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	
	LED Streetlights replacement program continued
	The Market Rental Revitalization Study (MARRS) initiated to preserve and revitalize the current supply of aging market rental housing in Victoria, and to promote the adoption of energy efficiency upgrades in these buildings through retrofits..
	Topped up Provincial Oil to Heat Pump Program
	Topped up Home Renovation Rebate Program
	Supported Fortis Rental Apartment Efficiency Program
Community-Wide Actions Proposed for 2018	
	Adopted BC Step Code: new residential and commercial buildings meet Step 1 standards by November of this year and Step 3 requirements starting January 2020.
	LED Streetlights replacement program completed
	The Market Rental Revitalization Study completed. The Study resulted in an Energy and Seismic Incentive Program that will be test-piloted to capture low carbon and resilience-focused retrofits.
	Topped up Provincial Oil to Heat Pump Program
	Topped up Home Renovation Rebate Program

Corporate Actions Taken in 2017	
	LED lighting replacement in three parkades, approximately 2,325 bulbs.
	Victoria Conference Centre boiler replaced and running on renewable natural gas.

	City Hall windows refurbished with low emissivity glass
	Energy audit of Fairfield Community Centre
<b>Corporate Actions Proposed for 2018</b>	
	Fire Hall 3 HVAC system to be replaced with air source heat pump
	Police Station LED lighting conversion
	City Hall window refurbishment with low emissivity glass completed

<b>Building and Lighting</b>	
The Province has committed to taking incremental steps to increase energy-efficiency requirements in the BC Building Code to make buildings net-zero energy ready by 2032. The BC Energy Step Code--a part of the BC Building Code--supports that effort	
Is your local government aware of the BC Energy Step Cost?	Yes
Is your local government implementing the BC Energy Step Code?	Yes

## 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.

<b>Community-Wide Actions Taken in 2017</b>	
<b>Community-Wide Actions Proposed for 2018</b>	

Corporate Actions Taken in 2017	
Corporate Actions Proposed for 2018	

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 <a href="#">BC Climate Action Toolkit</a> ?	Yes
Are you familiar with the 2017 <a href="#">“List of Funding Opportunities for Clean Energy Projects Led by First Nations and Local Governments?”</a>	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	
	Parks and Open Space Master Plan Approved by Council

	Explored options to create four more community gardens
	Construction of playground upgrades at Raynor Park
	Creation of a park improvement plan to guide future park/recreation upgrades at Topaz Park
	Installation of a temporary 'pop-up' play feature in Centennial Square
	328 young trees planted
<b>Community-Wide Actions Proposed for 2018</b>	
	Construction of park improvements at Cecelia Ravine Park
	Creation of new voluntary guidelines for growing food and gardening in multi-family mixed-use developments
	Creation of a master plan for Ship Point to guide future investment (carries over from 2017)
	250 new trees to be planted
	Franklin Green Commons Garden to be created in North Park Neighbourhood

<b>Corporate Actions Taken in 2017</b>	
<b>Corporate Actions Proposed for 2018</b>	

<b>Greenspace</b>	
Does your local government have urban forest policies, plans or programs?	<b>Yes</b>
Does your local government have policies, plans or programs to support local food production?	<b>Yes</b>

**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.

<b>Community-Wide Actions Taken in 2017</b>	
	Tri-bin public space recycling pilot program continued

<b>Community-Wide Actions Proposed for 2018</b>	
	Checkout Bag Regulation Bylaw (No. 18-008) approved to reduce single use plastic bag consumption
	Solid waste management plan initiated
	Proposing to join the National Zero Waste Council's Love Food Hate Waste campaign as a founding partner

<b>Corporate Actions Taken in 2017</b>	
	Residential Yard & Garden Waste Collection Study and options analysis
	Supporting community public space cleaning activities like beach cleaning and after event cleaning.
<b>Corporate Actions Proposed for 2018</b>	
	Develop long term solid waste strategy
	Sustainable catering policy initiated

<b>Solid Waste</b>	
Does your local government have construction and demolition waste reduction policies, plans or programs?	<b>No</b>
Does your local government have organics reduction/diversion policies, plans or programs?	<b>Yes</b>

## 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.

<b>Community -Wide Actions Taken in 2017</b>	
	Construction continued on Phase 1 of all ages and abilities bike network
	Sidewalk, pathway and crosswalk improvements continued
	Transit shelter and signal priority upgrades continued

	On-street car share parking stall expansion
<b>Community-Wide Actions Proposed for 2018</b>	
	Construction continued on Phase 1 of all ages and abilities bike network
	Design guidelines to inform EV charging requirements for off street parking bylaw completed
	EV strategy initiated
	Sidewalk, pathway and crosswalk improvements continued
	Transit shelter and signal priority upgrades continued
	On-street car share parking stall expansion

<b>Corporate Actions Taken in 2017</b>	
	Three E-Bikes purchased and incorporated into City fleet.
<b>Corporate Actions Proposed for 2018</b>	
	Fleet telematics initiated to inform fleet management, measure fleet fuel efficiency and inform purchasing
	EV charging infrastructure requirements for Public Works Yard performed.

<b>Transportation</b>	
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)	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 integrate its transportation and land use planning?	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	
	Staff attended two community events to promote the Rainwater Rewards Program and provide stormwater education.
	Rainwater management educational materials included with annual Stormwater utility bills
Community-Wide Actions Proposed for 2018	
	Rainwater Rewards rebate program review and update
	Development of rainwater management requirements for new developments
	Rainwater management educational materials included with Stormwater utility bills

Corporate Actions Taken in 2017	
	Sanitary Sewer Master Plan development
	Water metering strategy developed for advanced metering infrastructure
	Ongoing city-wide underground infrastructure improvements to address extraneous groundwater and stormwater flows
Corporate Actions Proposed for 2018	
	Sanitary Sewer Master Plan completed.
	Ongoing city-wide underground infrastructure improvements to address extraneous groundwater and stormwater flows
	Bioswale installation on Richardson Street in City right of way.
	Design of green stormwater infrastructure to address Redfern Park drainage issues
	Initiation of Water Distribution System Master Plan

Water Conservation	
Does your local government have water conservation policies, plans or programs?	Yes

## 2017 CLIMATE CHANGE ADAPTATION ACTIONS



Other:
--------

<b>Climate Change Adaptation Actions Taken in 2017</b>	
Please elaborate on key actions and/or partnerships your local government has engaged in to prepare for, and adapt to a changing climate. Add links to key documents and information where appropriate.	
	Approved funding for partnership with ICLEI to improve climate adaptation planning
	Draft Climate Leadership Plan includes adaptation goals, objectives and actions
<b>Climate Change Adaptation Actions Proposed for 2018</b>	
	Update Hazard Risk and Vulnerability Assessment
	Climate Leadership Plan finalized and approved by Council
	Initiate climate change adaptation plan
	Review drainage systems in low-lying areas of City in light of sea level rise
<b>For more information please contact:</b>	
	<a href="mailto:syoung@victoria.ca">syoung@victoria.ca</a>

<p>The following are key resources that may be helpful to your local government in identifying climate impacts, as well as, strategies, actions and funding to deal with them. For those resources that you have used, please indicate whether they were useful in advancing your work in climate change adaptation?</p>	
<p><a href="#">Indicators of Climate Change for British Columbia, 2016</a>  <a href="#">Plan2Adapt</a>  <a href="#">Climate Projections for Metro Vancouver</a>  <a href="#">Climate Projections for the Capital Region</a>  <a href="#">Climate Projections for the Cowichan Valley Regional District</a>  <a href="#">Province of BC's BC Adapts Video Series</a>  <a href="#">Preparing for Climate Change: An Implementation Guide for Local Governments</a>  <a href="#">The Public Infrastructure and Engineering Vulnerability Committee's (PIEVC) protocol</a>  <a href="#">Sea Level Rise Primer</a>  <a href="#">BC Regional Adaptation Collaborative Webinars</a>  <a href="#">www.ReTooling.ca</a>  <a href="#">Water Balance Model</a>  <a href="#">The Water Conservation Calculator</a></p> <p>Funding:  <a href="#">National Disaster Mitigation Program (NDMP)</a>  <a href="#">Community Emergency Preparedness Fund (CEPF)</a>  <a href="#">Municipalities for Climate Innovation Program (MCIP)</a>  <a href="#">Climate Adaptation Partner Grants (FCM)</a>  <a href="#">Infrastructure Planning Grants (MAH)</a>  <a href="#">Federal Gas Tax Fund</a></p>	<p>Haven't Used/  Useful/  Haven't Used /  Useful/  Haven't Used  Haven't Used /  Haven't Used /Useful/Not Useful  Useful/  /Useful/  /Useful/  Haven't Used /  Haven't Used /  Haven't Used /</p> <p>Haven't Used /  Haven't Used /  /Useful/  Haven't Used /  Haven't Used /  Useful/</p>
<p><b>Other:</b></p>	

## 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	
Community-Wide Actions Proposed for 2017	

Corporate Actions Taken in 2017	
Corporate Actions Proposed for 2017	

Other	
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 and/or climate change adaptation activity that your local government has undertaken and that has had, or has the potential to have, a significant impact. You are welcome to repeat an action that has already been listed.

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.

Communities that have conducted innovative initiatives may want to consider raising their profile through applications to [CEA’s Climate and Energy Action Awards](#), [UBCM Climate and Energy Action Award](#), [FCM Sustainable Communities Awards](#) or through submissions to [FCM’s National Measures Report](#).

<b>Community-Wide Action</b>
For more information contact:
<b>Corporate Action</b>
For more information contact:

**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.

**Mitigation**

<b>Programs and Funding</b>
BC Hydro Sustainable Communities Funding BC Hydro Community Energy Manger Program Fortis BC Community Energy Manager Program Provincial Oil to Heat Pump Program BC Hydro/Fortis BC Home Renovation Rebate Program CRD Climate Action Program Canadian Urban Sustainability Practitioners network (CUSP) Federation of Canadian Municipalities MCIP USDN Innovation Funding

**Adaptation**

<b>Programs and Funding</b>
ICLEI Canada

## 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 portion of the survey, please ensure that you are familiar with guidance available on the B.C. Climate Action Toolkit website, especially the [Becoming Carbon Neutral: A Guide for Local Governments in British Columbia](#).

*Please note: As a result of the BC Recycling Regulation, local governments are no longer required to account for greenhouse gas (GHG) emissions from vehicles, equipment and machinery required for the collection, transportation and diversion of packaging and printed paper, in their annual Climate Action Revenue Incentive Program (CARIP) reports.*

### 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:	3403
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:	8
<b>TOTAL A: CORPORATE GHG EMISSIONS FOR 2017</b>	<b>3411 tCO<sub>2</sub>e</b>

### Reporting Reductions and Offsets

To be carbon neutral, a local government must balance their TOTAL corporate GHG emissions generated in 2017 by one or a combination of the following actions:

- undertake GCC-supported Option 1 Project(s)
- undertake GCC-supported Option 2 Project(s)
- purchase carbon offsets from a credible offset provider

**If applicable, please report the 2017 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	
Household Organic Waste Composting	
	2535
Low Emission Vehicles	
Avoided Forest Conversion	
<b>TOTAL B: REDUCTIONS FROM OPTION 1 PROJECTS FOR 2017</b>	<b>2535 tCO2e</b>

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
<b>TOTAL C: REDUCTIONS FROM OPTION 2 PROJECTS FOR 2017</b>	<b>tCO2e</b>

If applicable, please report the name of the offset provider, type of project and 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



<b>TOTAL D: OFFSETS PURCHASED FOR 2017</b>	<b>tCO2e</b>

**TOTAL REDUCTIONS AND OFFSETS FOR 2017 (Total B+C+D) = 2535 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)) = 876 tCO2e**

**If your Corporate GHG Emissions Balance is negative or zero,  
your local government is carbon neutral.  
CONGRATULATIONS!**

If applicable, please record any emissions reductions you will be carrying over for future years and the source of the emissions reductions, including the year they were earned (E.g., Organics diversion, 2016 100 tCO2e).

SOURCE OF CARRY OVER EMISSION REDUCTIONS (and year earned)	REDUCTIONS
<b>BALANCE OF REDUCTIONS ELIGIBLE FOR CARRY OVER TO NEXT YEAR</b>	<b>tCO2e</b>

Carbon Neutral Reporting	
Does your local government have a climate reserve fund or something similar?	<b>Yes</b>

## 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.

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 their community’s energy and emissions inventory (i.e. 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:**

<b>PROJECT NAME:</b>

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