

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

**Local Government:**  
City of Campbell River



**Report Submitted by:**  
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The City of Campbell River 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	
	Launch of "Power Down Campbell River 2" – incentive program
Community-Wide Actions Proposed for 2017	
	Builders & Developers Forum – Step Code

Corporate Actions Taken in 2016	
	Hiring a Community Energy Manager (2 year term)
	Revision and adoption of a new Community Energy & Emissions Plan (CEEP)
	Hiring a 12 month co-op student "climate and energy specialist"
	Creation of a new "Community Energy & Emissions" Development Permit Area within the OCP
Corporate Actions Proposed for 2017	
	Obtain funding for co-op student to work on Sea Level Rise
	Apply for FCM funding for additional Sea Level Rise studies/work
	Begin implementation of action items within the City's Urban Forest Management Plan

Broad Planning	
What is (are) your current GHG reduction target(s)?	(Please provide details here)
Has your local government used the Community Energy and Emissions Inventory (CEEI) to measure progress?	Yes

What plans, policies or guidelines govern the implementation of climate mitigation in your community?	
• Community Energy and Emissions (CEE) Plan	Yes
• Climate Action Plan	No
• Integrated Community Sustainability Plan	Yes
• Official Community Plan (OCP)	Yes
• Regional Growth Strategy (RGS)	No
• Do not have a plan	No
• Other:	No
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	
	Builders workshops on new energy efficiency aspects of BC Building Code (new builds) and promotion of Power Down Campbell River retrofit program (existing homes)
	Continued to require all new single family homes to be built solar ready
	Power Down Campbell River Home Renovation Rebate Program launched
	Green Team/Youth Action Committee/Advisory Planning and Environment Commission all address energy conservation initiatives and policies as they emerge
	CARIP/PICS funding for a COOP student available to work on climate initiatives
	Internal plus BC Hydro funding for a full time Community Energy Adviser position filled in 2016
	CEEP updated and endorsed by Council
	Participated in Getting To Implementation (GTI) pilot project for City's CEEP
	Continued offer for downtown revitalization tax exemption for LEED buildings
Community-Wide Actions Proposed for 2017	
	Builders workshops on Energy Step Code and better performing buildings (new builds) and promotion of Power Down Campbell River retrofit program (existing homes)
	Continue to require all new single family homes to be built solar ready
	Continue offering of Power Down Campbell River Home Renovation Rebate Program
	Develop and implement annual tracking and reporting for CEEP implementation
	Develop strategy to support industry in complying with the BCBC via the performance pathway and building better performing buildings in the context of the Energy Step Code
	Provide support to encourage multi-modal transportation
	Continue offer for downtown revitalization tax exemption for LEED buildings
	Propose labelling policy for all new buildings and at the time of renovation for existing buildings

<b>Corporate Actions Taken in 2016</b>	
	Efficient lighting upgrades (LED) at Campbell River Museum
	Water efficient plumbing upgrades at Sportsplex, Library, Tidemark, Museum.
	Energy efficient dishwasher installed at Community Centre
<b>Corporate Actions Proposed for 2017</b>	
	Boiler efficiency upgrade for Norm Wood Environmental Centre
	Lighting and plumbing efficiency upgrades at Discovery Pier
	Review GHG targets and actions in the Carbon Neutral Plan to provide a strategy for moving forward on implementation, such as prioritization of energy upgrades to City facility
	Develop Energy Use Intensities for City facilities and benchmark where possible. Publically report on energy performance of existing City facilities
	Review GHG targets and actions in the Carbon Neutral Plan to provide a strategy for moving forward on implementation, such as prioritization of energy upgrades to City facilities
	Develop a policy for all new City buildings to be built to energy efficiency standards above code
	Develop Carbon Neutral Reserve Fund Policy/CARIP Policy

## 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>	
<b>Community-Wide Actions Proposed for 2017</b>	

<b>Corporate Actions Taken in 2016</b>	
	Continued to operate solar hot water systems at various City facilities
<b>Corporate Actions Proposed for 2017</b>	

<b>Energy Generation</b>	
Is your local government developing, or constructing:	
<ul style="list-style-type: none"> <li>• A district energy system</li> <li>• A renewable energy system</li> </ul>	No No
Is your local government operating:	
<ul style="list-style-type: none"> <li>• A district energy system</li> <li>• A renewable energy system</li> </ul>	No Yes
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>	
	Invasive plant removal in environmentally sensitive areas including Baikie Island, along the foreshore, riparian habitat and parks
	Monitoring of introduced, invasive Canada Goose populations to inform regional management
	Continued to implement Foreshore Management Plan through Development Permit Guidelines

	Participation in Department of Fisheries and Oceans Community Stewardship Advisory Committee with local stream stewardship / environmental groups and Greenways Land Trust
	Ecological Inventory completed for Nunns Creek Nature Trust lands leased by the City
<b>Community-Wide Actions Proposed for 2017</b>	
	Continued invasive plant removal in environmentally sensitive areas as noted in 2016
	Participate in the Provincially chaired Campbell River Estuary Management steering committee to organize conservation and management initiatives amongst agencies including Canada Goose management
	Complete Nunns Creek master planning process
	Develop urban forest implementation strategy for 2018
	Continue to inventory and monitor Bald Eagle nest locations

<b>Corporate Actions Taken in 2016</b>	
	Council has allocated \$65k in 2017 for staff to investigate the impacts of Sea Level Rise. Anticipated work includes a comprehensive shoreline survey of all assets-at-risk, and detailed hydrological studies at key locations
	Application and enforcement of the Environmental Protection Bylaw including first successful court challenges to the bylaw
	Annual participation in the Quinsam Coal Environmental Technical Review Committee
	Participated in the Species and Ecosystems at Risk Local Government working group
<b>Corporate Actions Proposed for 2017</b>	
	Continue to participate in the Species and Ecosystems at Risk Local Government working group
	Amend the Environmental Protection Bylaw to include noxious weeds
	Annual participation in the Quinsam Coal Environmental Technical Review Committee
	Host one environmental themed Builders and Developers forum (erosion and sediment control / Water Sustainability Act)

<b>Greenspace</b>	
Does your local government have urban forest policies, plans or programs?	<b>Yes</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>	
	Multi-family building recycling roll-out (communications program)
	Active participant in Regional Solid Waste Management Board/Staff Advisory Committee

<b>Community-Wide Actions Proposed for 2017</b>	
	Youth Action Committee public survey regarding composting and organics collection

<b>Corporate Actions Taken in 2016</b>	
	Worked with Comox Strathcona Waste Management on development of a regional organics facility in Campbell River
<b>Corporate Actions Proposed for 2017</b>	
	Continue to work towards developing a compost facility with the Strathcona Regional District

<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>

## 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>	
	Installed 2 new flashing amber light crosswalks (Alder / Robron and Highway 19A / Larwood)
	Widened shoulder on Willis Road between Carolyn and Petersen to accommodate pedestrians
	Rebuilt traffic signal at Dogwood / 16th Avenue (added left turn arrows in all four directions – priority on safety)
	Installed additional bike route signage along Birch route

<b>Community-Wide Actions Proposed for 2017</b>	
	Continue to implement actions from the Master Transportation Plan
	Install new crosswalks / upgrade crosswalks as needed
	Install new sidewalk

<b>Corporate Actions Taken in 2016</b>	
	Participated in Bike to Work Week
<b>Corporate Actions Proposed for 2017</b>	
	Continue to participate in Bike to Work Week

<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>Yes</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>No</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	
	Development of Water Conservation Plan (research and community engagement)
	Water and sewer outreach program (research and development of materials)
Community-Wide Actions Proposed for 2017	
	Completion and adoption of Water Conservation Plan

Corporate Actions Taken in 2016	
	Sanitary Sewer Inflow and Infiltration Reduction Program
	Purchase of leak detection equipment
	Reclaimed Water Study (started)
Corporate Actions Proposed for 2017	
	Reclaimed Water Study (completion)
	Sanitary Sewer Inflow and Infiltration Reduction Program
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.

<b>Climate Change Adaptation Actions Taken in 2016</b>	
	Consideration of Sea Level Rise within the City's Downtown Revitalization strategy and proposed design features.
	Redesign of foreshore park in response to hydrological study accounting for Sea Level Rise impacts.
	Generation of flood inundation maps of downtown.
<b>Climate Change Adaptation Actions Proposed for 2017</b>	
	Sea Level Rise – at least two detailed hydrological studies of vulnerable coastal locations
	Sea Level Rise – biological study proposed to ascertain ecological impacts on the Campbell River estuary.
	Sea Level Rise – generate potential coastal flood inundation maps for the whole coastline of CR
	Sea Level Rise – compile a complete and detailed survey of all municipal, environmental and private assets-as-risk from coastal inundation.
	Sea Level Rise – public open houses/info sessions
	Zoning Bylaw amendment in relation to Flood Construction Levels

<b>Resources you have used to support climate change adaptation (e.g. <a href="#">Plan2Adapt</a>, <a href="#">Preparing for Climate Change: Implementation Guide</a>)</b>	
	QUEST Canada – “Getting to Implementation” framework.
	Community Energy Association – policy approaches... (report produced for City of CR)

<b>In 2016 did you consider climate change impacts in any of the following areas? (check if yes)</b>	
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) YES	
Economic diversification initiatives	
Ecosystem-based approaches (incl. shorelines) YES	
Incentives (e.g. property owner reducing stormwater run-off)	
Public education and awareness	
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	
Corporate Actions Proposed for 2017	

Other	
Are you familiar with the <a href="#">Community Lifecycle Infrastructure Costing Tool (CLIC)</a> ?	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
Corporate Innovative Action

### 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
-QUEST Canada – “Getting to Implementation” program – 400 hours of consulting/assistance with CR as one of three national pilot communities for this initiative.
-Pacific Institute for Climate Solutions (PICS)
-Community Energy Association (CEA)

## 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:	<b>870</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 <u>contracted</u> services:	<b>595</b>
<b>TOTAL A: CORPORATE GHG EMISSIONS FOR 2016</b>	<b>1465 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	
Household Organic Waste Composting	

Low Emission Vehicles	
Avoided Forest Conversion	
<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
<b>TOTAL D: OFFSETS PURCHASED FOR 2016</b>	<b>tCO2e</b>

**TOTAL REDUCTIONS AND OFFSETS FOR 2016 (Total B+C+D) =** **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)) = 1465 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	