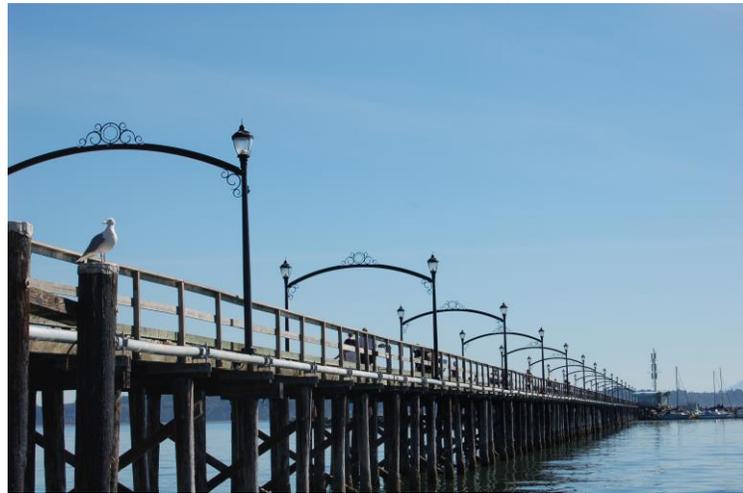


# Climate Action Revenue Incentive (CARIP) Public Report for 2017

**Local Government: City of White Rock**

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The City of White Rock 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.

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## 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	
	Updated Official Community Plan (OCP) includes goals and strategies related to green house gas reduction and smart growth principles
Community-Wide Actions Proposed for 2018	
	Updated OCP includes new policy/objective to work with TransLink to make transit more attractive and convenient by enhancing local transit and supporting regional transit improvements

Corporate Actions Taken in 2017	
	Updated OCP includes objective for adopting the Province's new Energy Step Code
Corporate Actions Proposed for 2018	
	Develop corporate green-house gas reduction strategy
	Continue support for City of Surrey's Coastal Flood Adaptation Strategy

Broad Planning		
What is (are) your current GHG reduction target(s)?	10% below 2007 levels by 2020, and 50% below 2007 levels by 2050	
Are you familiar with your community's community energy and emissions inventory (e.g. CEEI or another inventory)?		Yes
What plans, policies or guidelines govern the implementation of climate mitigation in your community?	<ul style="list-style-type: none"> <li>• Community Energy and Emissions (CEE) Plan</li> <li>• Community- Wide Climate Action Plan</li> <li>• Integrated Community Sustainability Plan</li> <li>• Official Community Plan (OCP)</li> <li>• Regional Growth Strategy (RGS)</li> </ul>	Yes Yes No Yes Yes
Does your local government have a corporate GHG reduction plan?		In progress

## 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	
	Updated OCP includes development of green building strategy to enhance the environmental and human health performance of buildings
Community-Wide Actions Proposed for 2018	
	Updated OCP includes an objective to implement development permit guidelines relating to energy conservation and green house gas emissions reductions

Corporate Actions Taken in 2017	
	Continued replacing traditional lighting with energy efficient lighting at City facilities
	Upgraded arena ice resurfacer bay facility to use recycled water
Corporate Actions Proposed for 2018	
	Continue to convert to LED lighting (City facilities, street lighting, parks, pier and walkways)

Building and Lighting	
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.

Community-Wide Actions Taken in 2017	
	Updated OCP includes objective to support on-site renewable energy systems to supply electricity, heating, and cooling to buildings and other structures
Community-Wide Actions Proposed for 2018	
	Explore opportunities to install public charging stations in the Town Centre and along the waterfront, and provide designated stalls for electric vehicles

Corporate Actions Taken in 2017	
	Updated OCP includes objective to implement Development Permit Area guidelines that relate to energy conservation and greenhouse gas emissions reductions through landscaping, siting of buildings and other structures
Corporate Actions Proposed for 2018	
	Updated OCP includes objective relating to the implementation of district energy system

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

### 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	
	Supported invasive species community clean ups
	Supported local community garden program
	Supported community shore line clean ups
Community-Wide Actions Proposed for 2018	
	Plan to create public open spaces and gathering places and provide incentives to promote walking as a mode of travel
	Adopt Parks and Recreation Master Plan

Corporate Actions Taken in 2017	
	Initiated the process of developing a City tree planting program identifying next steps to planting more trees
	Expanded community gardens
Corporate Actions Proposed for 2018	
	Acquire property to create a town square designed to be a community gathering place that includes shade trees and pedestrian friendly features
	Complete City tree planting program

Greenspace	
Does your local government have urban forest policies, plans or programs?	In progress
Does your local government have policies, plans or programs to support local food production?	No

## 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.

Community-Wide Actions Taken in 2017	
<input type="checkbox"/>	Continued with public education and outreach to improve diversion of solid waste
<input type="checkbox"/>	Updated public waste receptacles to encourage recycling and organics diversion in public spaces
Community-Wide Actions Proposed for 2018	
<input type="checkbox"/>	Continue updating public and City facility waste receptacles to encourage recycling and organics diversion in public spaces

Corporate Actions Taken in 2017	
<input type="checkbox"/>	Resident education and outreach to reduce contamination in recyclables
Corporate Actions Proposed for 2018	
<input type="checkbox"/>	Introduced Corporate online services for options for paperless/e-billing

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

## 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>	
	Enhanced the bicycle network to improve connectivity and provide more cycling options throughout the City
	Added new sections of sidewalks to encourage more pedestrian traffic
<b>Community-Wide Actions Proposed for 2018</b>	
	Updated OCP includes objective for electric vehicle charging stations in new multi-unit residential/mixed use buildings
	Installation of public electric vehicle charging stations

<b>Corporate Actions Taken in 2017</b>	
	Updated OCP includes objectives to participate and support Metro Vancouver's Regional Air Quality Management Plan and follow Regional Growth Strategy policies related to reducing transportation-related pollution
<b>Corporate Actions Proposed for 2018</b>	
	Integrate additional electric vehicles into the City's fleet

<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	<b>Yes</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 integrate its transportation and land use planning?	<b>Yes</b>

## 2017 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.

Community-Wide Actions Taken in 2017	
	Public meetings/open houses on water quality
	Communicated water conservation with residents through digital and social media channels
Community-Wide Actions Proposed for 2018	
	Review and update water conservation plan
	Review and update storm and sanitary systems master plan

Corporate Actions Taken in 2017	
	Updated the city's Water Master Plan
	Implement water leak detection program
	Initiated aquifer protection plan
	Upgrades to the drinking water distribution system to reduce main breaks
	Remote monitoring of the drinking water pump stations to provide immediate responses and reduce travel time
	Improvements in drinking water aesthetics reduced the use of bottled water and discharge of plastics in to the environment
Corporate Actions Proposed for 2018	
	Initiate pressure monitoring project in the water distribution system to reduce the impact of breaking water mains, tampering or misuse
	Complete design and begin construction of new water treatment plant to improve the water quality
	Implement new Water Master Plan

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

## 2017 CLIMATE CHANGE ADAPTATION

This section of the CARIP survey is designed to collect information related to the types of climate impacts local governments are experiencing and how they are being addressed.

<b>Please identify the THREE climate impacts that are most relevant to your Local Government.</b>	
<ul style="list-style-type: none"> <li>• Increased temperatures affecting air quality</li> <li>• Extreme weather events contributing to urban and overland flooding</li> <li>• Sea level rise and storms causing coastal flooding and/or erosion</li> </ul>	

<b>In 2017 has your local government addressed the impacts of a changing climate using any of the following?</b>	
Risk and Vulnerability Assessments	Yes
Risk Reduction Strategies	Yes
Emergency response planning	Yes
Asset management	No
Natural/Eco asset management strategies	No
Infrastructure upgrades (e.g. storm water system upgrades)	Yes
Beach Nourishment projects	No
Economic diversification initiatives	No
Strategic and financial planning	Yes
Cross-department working groups	Yes
OCP policy changes	Yes
Changes to zoning and other bylaws and regulations	Yes
Incentives for property owner (e.g. reducing storm water run-off)	Yes
Public education and awareness	Yes
Research	Yes
Mapping	No
Partnerships	Yes

<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.	
	Updates to the Official Community Plan includes objectives to protect the ecological integrity of watercourses and Semiahmoo Bay <a href="http://www.whiterockcity.ca/EN/main/city/planning/long-range-planning">www.whiterockcity.ca/EN/main/city/planning/long-range-planning</a>
<b>Climate Change Adaptation Actions Proposed for 2018</b>	
	Initiate study/concept plan to address foreshore erosion
	Risk assessment to determine the level of risk and impact from rising sea levels, more frequent and larger storms, or other natural disasters, and ensure future development implements adaptation measures
	Updated OCP objective requiring that new buildings within the floodplain are adequately flood-proofed to a standard established by the City and Provincial government
<b>For more information please contact:</b>	
	<a href="http://www.whiterockcity.ca/EN/main/city/planning/long-range-planning">www.whiterockcity.ca/EN/main/city/planning/long-range-planning</a>



## 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	
<input type="checkbox"/>	No response
Community-Wide Actions Proposed for 2017	
<input type="checkbox"/>	No response

Corporate Actions Taken in 2017	
<input type="checkbox"/>	No response
Corporate Actions Proposed for 2017	
<input type="checkbox"/>	No response

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

## INNOVATION AND PEER-TO-PEER

### 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>
No response
<b>Corporate Action</b>
No response

### 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 Power Smart Program

#### Adaptation

<b>Programs and Funding</b>
Tree 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:	786
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:	329
<b>TOTAL A: CORPORATE GHG EMISSIONS FOR 2017</b>	<b>1,115 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:**

<b>OPTION 1 PROJECTS</b>	<b>REDUCTIONS</b>
Household Organic Waste Composting	<b>373</b>
<b>TOTAL B: REDUCTIONS FROM OPTION 1 PROJECTS FOR 2017</b>	<b>373 tCO<sub>2</sub>e</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
Offsets From Previous Year Carried Foward	382
<b>TOTAL C: REDUCTIONS FROM OPTION 2 PROJECTS FOR 2017</b>	<b>382 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
None	
<b>TOTAL D: OFFSETS PURCHASED FOR 2017</b>	<b>0 tCO2e</b>

**TOTAL REDUCTIONS AND OFFSETS FOR 2017 (Total B+C+D) = 755 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)) = 360 tCO2e**

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

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

## GCC CLIMATE ACTION RECOGNITION

### 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.

**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 checked="" type="checkbox"/>	Level 2 – Measuring GHG Emissions	Yes
<input type="checkbox"/>	Level 3 – Accelerating Progress on Charter Commitments	
<input type="checkbox"/>	Level 4 - Achievement of Carbon Neutrality	
<input type="checkbox"/>	Not Sure	