

Climate Action Revenue Incentive (CARIP) Public Report for 2016

Local Government: City of White Rock

Report Submitted by:

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The City of White Rock 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	
	Continued work on Official Community Plan
	Continued support for Fraser Basin Council Society Regional Flood Strategy
Community-Wide Actions Proposed for 2017	
	Adoption of Official Community Plan
	Update Zoning Bylaw

Corporate Actions Taken in 2016	
	Replaced fuel powered ice resurfacer with an electric ice resurfacer
Corporate Actions Proposed for 2017	
	Engaged a consultant in the development of a corporate green-house gas reduction strategy
	Add electric vehicles to the City's fleet

Broad Planning		
What is (are) your current GHG reduction target(s)?	10% below 2007 levels by 2020 and 50% below 2007 levels by 2050	
Has your local government used the Community Energy and Emissions Inventory (CEEI) to measure progress?		No
What plans, policies or guidelines govern the implementation of climate mitigation in your community?		Yes
• 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)		
• Do not have a plan		
• Other:		
Does your local government have a corporate GHG reduction plan?		No
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	
	Supported the Environmental Master Plan which promotes energy efficiency in City facilities, operational activities and the community
Community-Wide Actions Proposed for 2017	
	Support the Environmental Master Plan which promotes energy efficiency in City facilities, operational activities and the community

Corporate Actions Taken in 2016	
	Upgraded from high pressure sodium to energy efficient LED streetlights along a portion of the City's promenade
Corporate Actions Proposed for 2017	
	Update community centre HVAC unit
	Continue to upgrade lighting along City's promenade
	Install additional energy efficient lighting at arena
	Hydro meter reconfiguration at community centre to provide user awareness of energy consumption
	Install indoor snow melt pit at arena to reduce the amount of hot water used to melt snow and enable the recycling of water

2016 ENERGY GENERATION ACTIONS

Energy Generation Actions

A transition to renewable or low-emission energy sources for heating, cooling and power supports large, long-term GHG emissions reductions. Renewable energy including waste heat recovery (e.g. from biogas and biomass), geo-exchange, micro hydroelectric, solar thermal and solar photovoltaic, heat pumps, tidal, wave, and wind energy can be implemented at different scales, e.g. in individual homes, or integrated across neighbourhoods through district energy or co-generation systems.

Community-Wide Actions Taken in 2016	
<input type="checkbox"/>	No response
Community-Wide Actions Proposed for 2017	
<input type="checkbox"/>	No response
Corporate Actions Taken in 2016	
<input type="checkbox"/>	No response
Corporate Actions Proposed for 2017	
<input type="checkbox"/>	No response

Energy Generation	
Is your local government developing, or constructing: <ul style="list-style-type: none"> • A district energy system • A renewable energy system 	No No
Is your local government operating: <ul style="list-style-type: none"> • A district energy system • A renewable energy system 	No No
Is your local government connected to a district energy system that is operated by another energy provider?	No
Are you aware of the Integrated Resource Recovery guidance page on the BC Climate Action Toolkit ?	Yes

2016 GREENSPACE/ NATURAL RESOURCE PROTECTION ACTIONS

Greenspace Actions

Greenspace/Natural Resource Protection refers to the creation of parks and greenways, boulevards, community forests, urban agriculture, riparian areas, gardens, recreation/school sites, and other green spaces, such as remediated brownfield/contaminated sites as well as the protection of wetlands, waterways and other naturally occurring features.

Community-Wide Actions Taken in 2016	
	Supported invasive species community clean ups
	Supported community planting of native plants
	Supported local community garden program
	Updating Parks and Recreation Master Plan
	Supported community shore line clean ups
Community-Wide Actions Proposed for 2017	
	Create a Waterfront Plan
	Adopt an Urban Forest Management Plan
	Complete Parks and Recreation Master Plan

Corporate Actions Taken in 2016	
	Installation of new parks signage
	Shoreline restoration
	Began design for upgrades at Memorial Park
Corporate Actions Proposed for 2017	
	Shoreline restoration
	Begin construction of upgrades for Memorial Park
	Upgrades to Terry Parr Plaza

Greenspace	
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.

Community-Wide Actions Taken in 2016	
<input type="checkbox"/>	Continue with public education and outreach to improve diversion of solid waste
Community-Wide Actions Proposed for 2017	
<input type="checkbox"/>	Update public waste receptacles to encourage recycling and organics diversion in public spaces

Corporate Actions Taken in 2016	
<input type="checkbox"/>	Updated recycling receptacles in some civic facilities
Corporate Actions Proposed for 2017	
<input type="checkbox"/>	Update recycling receptacles in all civic facilities

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

2016 TRANSPORTATION ACTIONS

Transportation Actions

Transportation actions that increase transportation system efficiency, emphasize the movement of people and goods, and give priority to more efficient modes, e.g. walking, cycling, ridesharing, and public transit, can contribute to reductions in greenhouse gas emissions and more livable communities.

Community -Wide Actions Taken in 2016	
<input type="checkbox"/>	Updated bicycle network signage and pavement markings
Community-Wide Actions Proposed for 2017	
<input type="checkbox"/>	Refreshed line painting throughout the City
<input type="checkbox"/>	Additional sections of sidewalks to encourage more pedestrian traffic
<input type="checkbox"/>	Improve the parks trail stairway at Centennial Park
<input type="checkbox"/>	Upgrade Bryant Park pathway

Corporate Actions Taken in 2016	
<input type="checkbox"/>	Public engagement in revitalizing the town centre
<input type="checkbox"/>	Installation of overhead pedestrian crosswalk signal for safety
<input type="checkbox"/>	Installation of electric vehicle charging station for new fleet vehicles
Corporate Actions Proposed for 2017	
<input type="checkbox"/>	Design of town centre street scape
<input type="checkbox"/>	Installation of pedestrian crosswalk signals for safety
<input type="checkbox"/>	Extend the promenade walkway to encourage pedestrian traffic

Transportation	
Does your local government have policies, plans or programs to support:	
• Walking	Yes
• Cycling	Yes
• Transit Use	Yes
• Electric Vehicle Use	No
• Other (please specify)	
Does your local government have a transportation demand management (TDM) strategy (e.g. to reduce single-vehicle occupancy trips, increase travel options, provide incentives to encourage individuals to modify travel behavior)?	No
Does your local government have policies, plans or programs to support local food production (thus reducing transportation emissions)?	No

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.

Community-Wide Actions Taken in 2016	
	Held public meetings/open houses on water quality
	Update Water Conservation Plan
	Communicated water restrictions levels with public through digital and social media channels
Community-Wide Actions Proposed for 2017	
	Review and update watering restrictions
	Update Water Master Plan
	Update Storm and Sanitary Master Plan

Corporate Actions Taken in 2016	
	Began pilot study on arsenic and manganese treatment options (RES'EAU-WaterNET)
	Construction to update reservoir and pumping station
	Began work to complete secondary disinfection throughout water system
Corporate Actions Proposed for 2017	
	Prepare aquifer protection plan
	Drill new well
	Complete construction on new reservoir and pumping station
Water Conservation	
Does your local government have water conservation policies, plans or programs?	Yes

2016 CLIMATE CHANGE ADAPTATION ACTIONS

Climate Change Adaptation Actions

For local governments, adaptation to a changing climate can take the form of changes in policy, management, technology and behaviour that minimize negative impacts or exploit opportunities. It can involve both “hard” and “soft” solutions, including: changes in infrastructure engineering, planning, zoning, bylaws, and public education.

Climate Change Adaptation Actions Taken in 2016	
	Review of Street and Traffic Bylaw
Climate Change Adaptation Actions Proposed for 2017	
	Adopt updated Street and Traffic Bylaw
	Update Parks Bylaw

In 2016 did you consider climate change impacts in any of the following areas? (check if yes)	
Risk reduction strategies	
Risk and Vulnerability assessment	
<input checked="" type="checkbox"/> Asset management	
<input checked="" type="checkbox"/> Infrastructure upgrades (e.g. stormwater system upgrades)	
<input checked="" type="checkbox"/> Cross-department working groups	
<input checked="" type="checkbox"/> Emergency response planning	
<input checked="" type="checkbox"/> Land-use policy changes (eg. OCP, DPA)	
Economic diversification initiatives	
<input checked="" type="checkbox"/> Ecosystem-based approaches (incl. shorelines)	
<input checked="" type="checkbox"/> Incentives (e.g. property owner reducing stormwater run-off)	
<input checked="" type="checkbox"/> Public education and awareness	
Research (e.g. mapping, participation in studies)	
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	
<input type="checkbox"/>	No response
Community-Wide Actions Proposed for 2017	
<input type="checkbox"/>	No response

Corporate Actions Taken in 2016	
<input type="checkbox"/>	No response
Corporate Actions Proposed for 2017	
<input type="checkbox"/>	No response

Other	
Are you familiar with the Community Lifecycle Infrastructure Costing Tool (CLIC)?	Yes
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
No response
Corporate Innovative Action
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.

Programs and Funding
No response

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:	802
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:	398
TOTAL A: CORPORATE GHG EMISSIONS FOR 2016	1200 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	490
Low Emission Vehicles	
Avoided Forest Conversion	
TOTAL B: REDUCTIONS FROM OPTION 1 PROJECTS FOR 2016	490 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
Offsets from previous years	1009
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) = 1200 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)) = -299 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	
	Level 3 – Accelerating Progress on Charter Commitments	
	Level 4 - Achievement of Carbon Neutrality	YES
	Not Sure	