Climate Action Revenue Incentive (CARIP) Public Report for 2015

Local Government: City of Colwood

Report Prepared by:

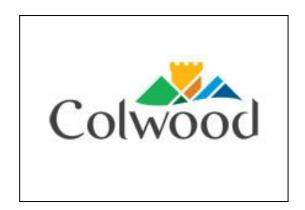
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The City of Colwood has completed the 2015 Climate Action Revenue Incentive Program (CARIP) Public Report as required by the Province of BC. The CARIP report summarizes actions taken in 2015 and proposed for 2016 to reduce corporate and community-wide energy consumption and greenhouse gas emissions (GHG) and reports on progress towards achieving carbon neutrality.

2015 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.

Coi	Community-Wide Actions Taken in 2015		
	Adopted a Transportation Master Plan with an emphasis on active transportation.		
Coi	Community-Wide Actions Proposed for 2016		
	Official Community Plan review		
	A places and spaces research project with Royal Roads University and a consultant for analysis of		
	development projects including greenhouse gas emissions modelling.		
	Update the subdivision and development of land bylaw.		
	Review the Transportation Master Plan and prepare conceptual designs of active transportation		
	improvements.		

Snapshot Questions	
What is your current GHG reduction target(s) as identified in your OCP?	
Per Capita GHG emissions reduction from 2007 levels – 50% by 2020, 75% by 2030 and 93%	
by 2050. Total GHG emissions reduction from 2007 levels – 33% by 2020, 49% by 2030 and	
80% by 2050.	
What plans, policies or guidelines govern the implementation of climate mitigation in your	
community?	
Community Energy and Emissions Plan (CEEP)	
Official Community Plan (OCP)	
Does your local government have a climate action reserve or similar fund?	Yes
Does your local government have a Corporate Climate Action Plan?	Yes

2015 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.

Co	Corporate Actions Taken in 2015	
	Lighting technology upgrades were made both inside and outside the fire station.	
	Did a pilot project to replace high pressure sodium ornamental street lights with LED street lights	
	along a park trail.	
Corporate Actions Proposed for 2016		

Refurbish two pergolas from the provincial government for use in a park.

Replace high pressure sodium ornamental street lights with LED street lights on city streets.

2015 ENERGY GENERATION ACTIONS

Energy Generation

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.

Corporate Actions Proposed for 2016

Study of the feasibility of installing photovoltaic panels on the public works garage.

2015 GREENSPACE/ NATURAL RESOURCE PROTECTION 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.

Corporate Actions Taken in 2015

Supported the removal of invasive weeds and planting of trees by volunteers in an area of a park that had been damaged during a windstorm.

Corporate Actions Proposed for 2016

Plant trees and shrubs in the riparian area of a park.

2015 SOLID WASTE ACTIONS

Solid Waste

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 2015

Held twice monthly branch drop off service for residents at the Public Works yard.

Allowed tree service companies to dispose of chipped branches in our Public Works yard for use as mulch by our Parks group and the public.

Corporate Actions Taken in 2015

Continued using three digesters located beside City Hall for staff food wastes.

2015 TRANSPORTATION ACTIONS

Transportation

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.

Coı	Community -Wide Actions Taken in 2015	
	Installed three covered bicycle shelters, racks for 36 bicycles, an air pump and a repair stand at a	
	transit exchange.	
	Installed a direct current fast charger electric vehicle charging station at a park and ride.	
	Worked with BC Transit to expand bus service.	
	Improved pedestrian and cyclist facilities on approximately 3 km of existing roads.	
Coı	Community-Wide Actions Proposed for 2016	
	Build a multi-use path through an undeveloped area between a new secondary school and existing	
	residential area.	
	Work with BC Transit to install new bus shelters.	
	Improve pedestrian and cyclist facilities on Metchosin Rd and Latoria Rd.	
	Install a mid-block crosswalk to join two park trail sections across an arterial road and install a	
	pedestrian bridge on the park trail to close gaps in an active transportation route.	

Snapshot Ques	stions	
Does your loca	I government have policies, plans or programs to support:	
•	Walking	Yes
•	Cycling	Yes
•	Transit Use	Yes
•	Electric Vehicle Use	Yes

2015 CLIMATE CHANGE ADAPTATION ACTIONS

Climate Change Adaptation

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.

Community-Wide Actions Taken in 2015

Continued to require new developments to meet energy efficiency and emissions reduction commitments.

Corporate Actions Taken in 2015

Started to prepare a plan to protect a water front sanitary sewer pump station due to sea level rise and provide a long term mitigation strategy.

Corporate Actions Proposed for 2016

Completion of a plan to protect a water front sanitary sewer pump station required due to sea level rise and provide a long term mitigation strategy.

INNOVATION AND PEER-TO-PEER LEARNING

Innovation

This section provides the opportunity to showcase an innovative Corporate and/or Community-Wide reduction or adaptation activity that your local government has undertaken and that has had a significant impact 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

Completion of the four year Solar Colwood program which provided incentives to residents for renewable energy systems, energy saving upgrades, electric vehicle charging infrastructure, research and monitoring of energy use, training in solar installations and smart home technology. More information about the program may be found at: http://www.colwood.ca/city-services/solar-colwood.

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 appropriate box below.

Programs and Funding

Natural Resources Canada – Clean Energy Fund

T'Sou-ke Nation

Royal Roads University

Camosun College Pipe Trades Department

Horizon Technologies

BC Hydro

FortisBC

Ministries of the Province of British Columbia

SolarBC

The Canadian Solar Cities Project

The Westshore Chamber of Commerce

Vancity's Bright Ideas

The New Car Dealers Association of BC

The Capital Regional District

BC Transit

2015 CARBON NEUTRAL REPORTING

Reporting Emissions

Did you measure your local government's corporate GHG emissions in 2015?	Yes
(Yes/No)	
If your local government measured 2015 corporate GHG emissions, please report	245
the number of corporate GHG emissions (in tonnes of carbon dioxide equivalent)	
from services delivered directly by your local government:	
If your local government measured 2015 corporate GHG emissions, please report	180
the number of corporate GHG emissions (in tonnes of carbon dioxide equivalent)	
from <u>contracted</u> services:	
TOTAL A: CORPORATE GHG EMISSIONS FOR 2015	425 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 Option 1 Projects (GCC-supported)
- undertake Option 2 Projects (alternative) community GHG emissions reduction projects that meet project eligibility requirements
- purchase carbon offsets from a credible offset provider

If applicable, please report the 2015 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	143.3
Low Emission Vehicles	
Avoided Forest Conversion	
TOTAL B: REDUCTIONS FROM OPTION 1 PROJECTS FOR 2015	143.3 tCO2e

Corporate GHG Emissions Balance for 2015

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 2015 = (A –B) = 281.7 tCO2e

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 - Progress on Charter Commitments: for local governments who demonstrate progress on fulfilling one or more of their Charter commitments

Level 2 - Measurement: for local governments 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 - Achievement of Carbon Neutrality: for local governments who achieve carbon neutrality in the reporting year.

Based on your local government's 2014 CARIP Public Report, please check the GCC Climate Action Recognition Program level that best applies:

Level 1 - Progress on Charter Commitments	
Level 2 - Measurement	X
Level 3 - Achievement of Carbon Neutrality	