Schedule B





Climate Action Revenue Incentive Program 2017 Public Report

May 31, 2018

Climate Action Revenue Incentive (CARIP) Public Report for 2017

Local Government: Township of Esquimalt

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Date: May 29, 2018

The Township of Esquimalt 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.

Legend

DS	Development Services
EPW	Engineering and Public Works
FN	Financial Services
PR	Parks and Recreation Services

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.

Con	nmunity-Wide Actions Taken in 2017		
DS	Prepared draft Official Community Plan (OCP) which includes policies and guidelines to reduce GHG emissions in the community. The new OCP will set a target for carbon neutrality by 2050 and will contain design guidelines with an emphasis on transit oriented, density along transit corridors and the E and N railway and density bonusing for higher levels of the Step Code.		
DS	Approved rezoning application for mixed use development in Esquimalt Village, which incorporates energy efficient initiatives including geothermal heating and cooling.		
Con	nmunity-Wide Actions Proposed for 2018		
DS	Adoption of an updated Official Community Plan.		
DS	Implementation of policies and guidelines related to GHG reduction and resource conservation.		
DS	Completion of rezoning application for 12-storey wood frame Passive House multi-family development.		

Cor	Corporate Actions Taken in 2017		
DS	Purchase of 1237 Esquimalt Rd. for construction of a new Public Safety Building to be built to		
	higher energy standards.		
Cor	Corporate Actions Proposed for 2018		
DS	Establish a methodology for tree canopy assessments for the municipality in order to track urban		
	forest coverage.		

Broad Planning		
What is (are) your current GHG reduction target(s)?	t GHG To reduce community greenhouse gas emissions by at least 38% reduction by 2020, 83% by 2050 compared to 2007 levels.	
Are you familiar with your community's community energy and emissions inventory (e.g. CEEI or another inventory)?		Yes
What plans, policies or guidelines community?	govern the implementation of climate mitigation in your	
• Commu	nity Energy and Emissions (CEE) Plan	No
• Commu	nity- Wide Climate Action Plan	No
• Integrate	ed Community Sustainability Plan	No
Official Community Plan (OCP)		Yes
Regional	Growth Strategy (RGS)	Yes
• Do not h	ave a plan	No
• Other:		
Does your local government have	a corporate GHG reduction plan?	No

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.

Com	Community-Wide Actions Taken in 2017		
DS	Participated in oil to heat pump replacement program-5 heat pumps installed.		
DS	Implemented new urban design guidelines for projects located on Esquimalt Rd.		
Community-Wide Actions Proposed for 2018			
DS	Continue with oil to heat pump replacement program.		

Corpo	Corporate Actions Taken in 2017			
PR	Converted 17 light panels, 44 light strips and 7 pot lights in the Archie Browning Sports Centre			
	(ABSC) to LED.			
PR	Converted 14 light panels, 27 pot lights and one fixture to LED in the Esquimalt Recreation			
	Centre.			
DS	Continued with Environmental Advisory Committee.			
Corpo	Corporate Actions Proposed for 2018			
PR Replacement of the ice chiller in the Archie Browning Sports Centre will reduce the amo				
	ammonia being used on site and will be more energy efficient.			
EPW	Preparing Scope of Work for replacement of HVAC control system in Municipal Hall.			

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 Codea part		
of the BC Building Codesupports that effort		
Is your local government aware of the BC Energy Step Cost?	Yes	
Is your local government implementing the BC Energy Step Code?	No	

2017 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.

Сог	Community-Wide Actions Taken in 2017		
Со	mmunity-Wide Actions Proposed for 2018		

Со	Corporate Actions Taken in 2017		
Со	rporate Actions Proposed for 2018		
	I		

Energy Generation		
Is your local g	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?	Νο
Are you aware of the Integrated Resource Recovery guidance page on the <u>BC Climate Action</u> <u>Toolkit</u> ?	Yes
Are you familiar with the 2017 "List of Funding Opportunities for Clean Energy Projects Led by <u>First Nations and Local Governments</u> ?"	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.

Hosted 'Branch Out' events in Highrock Park, Gorge Park, Saxe Point Park and Macaulay Park with over 100 volunteers assisting in the removal of invasive plants (100 m2 in each park) and the
planting of 40-50 native trees and shrubs in each park. <u>www.esquimalt.ca/parks-</u>
recreation/parks/branch-out-events-educational-materials
Hosted the 5 th Annual Earth Day celebration in Highrock Park. The event drew 800 students.
Activities included invasive pulling of English Ivy and Himalayan Blackberry, trail building, Garry
Oak planting, native plant understory planting, and 7 goats that fed on the invasive plants.
Supported ecochamps program during the summer in Esquimalt Parks. Eco-education for ages 3-
6.
Planted 73 full-sized new boulevard trees.
Removal of invasive species within a large area of Macaulay Point Park in order to protect three
endangered plant species (for DND).
Remediation of Esquimalt Town Square construction was initiated and completed.
nunity-Wide Actions Proposed for 2018
Beginning of public engagement process for amenity funds provided by the McLouglin Point
Wastewater Treatment Plant (MPWTP). Amenity funds will be targeted towards acquisition of
waterfront parkland and development of waterfront parkland.
Application for Certificate of Compliance for remediation of ETS will be submitted.
Continued support for Anderson Community Garden

Corpo	Corporate Actions Taken in 2017	
EPW	Working with CRD on development and implementation of common design guidelines for storm	
	water management.	
Corpo	prate Actions Proposed for 2018	
DS	Implementation of policies to protect native ecosystems and shorelines through new	
	Development Permit Areas in updated OCP.	

EPW	Continuing membership on CRD integrated watershed management committee.

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

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			
EPW	Composting bins and recycling collection provided at all community events.		
EPW	Continued collection of kitchen scraps from households for composting.		
Comn	Community-Wide Actions Proposed for 2018		

Сог	Corporate Actions Taken in 2017		
Сог	rporate Actions Proposed for 2018		

Solid Waste	
Does your local government have construction and demolition waste reduction policies, plans	No
or programs?	
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.

Commun	Community -Wide Actions Taken in 2017		
FN	Introduced user fee of \$1/hour for Level 2 electric vehicle charging to improve availability of		
	the station to more users and to achieve cost neutrality.		
EPW	502 m of sidewalk replaced or constructed during 2017. New sidewalk constructed on		
	Wychbury Ave. between Kinver and Lampson St.		
EPW	Two new transit shelters installed.		
EPW	Colville/Hutchinson Intersection upgrade completed to facilitate pedestrian movements and		
	bus stop shelters.		
EPW	Reviewed crosswalk locations between Admirals and Fernhill Rds on Esquimalt Rd.		
DS	Met with BC Transit to discuss improvements to public transit in Esquimalt.		
Commun	Community-Wide Actions Proposed for 2018		
EPW	Sidewalk between Old Esquimalt and 832 Esquimalt Rd. to be completed.		
EPW	Two pedestrian crossings to be installed at 1100 block of Esquimalt Rd. and Fraser St. based		
	on the review conducted in 2017.		
EPW	Conduct Lampson St. corridor cross section study to determine the corridor's ability to accept		
	bike lanes in order to increase multi-modal orientation.		
FN	Entering into licencing agreement with UBike for 35 shared bikes within the municipality.		
PR/EPW	Conduct public engagement for a new crossing of Tillicum Road between Craigflower Rd and		
	Tillicum Bridge (connected with McLoughlin Point WTP amenity funds public engagement).		

Corpo	Corporate Actions Taken in 2017		
EPW	Two new solar pedestrian beacons installed on Esquimalt Rd.		
	Employee participation in Greater Victoria Bike to Work Week.		
DS	Bus tickets provided for employee trips to locations within the Greater Victoria area.		
DS	A number of parking variances were approved in order to reduce the parking requirements		
	associated with development.		
Corpo	Corporate Actions Proposed for 2018		
EPW	Conduct traffic count analysis.		
EPW	Tender being prepared to confirm availability of electric truck for fleet.		
EPW	Four new solar pedestrian crossing beacons planned.		

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

Comn	Community-Wide Actions Taken in 2017		
DS	Approved state of the art waste water treatment centre at MacLoughlin Point.		
PR	New children's water play park filters water through raingarden prior to its release to the storm drain system.		
PR	Reducing watering of boulevard and park trees by use of individual tree bags which hold a week's worth of water.		
Comn	Community-Wide Actions Proposed for 2018		
EPW	Engineering to prepare preliminary modelling data of Inflow and Infiltration in the stormdrain		
	system.		
EPW	Engineering to prepare a draft bylaw for inflow and infiltration control for discussion, which will		
	include a cost sharing program for cross connections and service line condition.		

Corpo	Corporate Actions Taken in 2017		
EPW	Participation on Esquimalt Liaison Committee to review concerns and activities associated with		
	the Waste Water Treatment Plant project.		
Corpo	Corporate Actions Proposed for 2018		

Water Conservation	
Does your local government have water conservation policies, plans or programs?	No

2017 CLIMATE CHANGE ADAPTATION ACTIONS

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.

Please identify the THREE climate impacts that are most relevant to your Local Government.		
 Changes to temperature and precipitation causing seasonal drought Extreme weather events contributing to urban and overland flooding Sea level rise and storms causing coastal flooding and/or erosion 		
Other:		

In 2017 has your local government addressed the impacts of a changing climate using any of the	
following?	
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)	No
Beach Nourishment projects	No
Economic diversification initiatives	No
Strategic and financial planning	No
Cross-department working groups	No
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	Yes
Partnerships	Yes
Other:	

Clin	nate Change Adaptation Actions Taken in 2017		
Plea	Please elaborate on key actions and/or partnerships your local government has engaged in to prepare		
for,	for, and adapt to a changing climate. Add links to key documents and information where appropriate.		
DS	Drafted OCP policies related to heating and cooling in private buildings.		
	Regional wastewater treatment plant designed to be adaptive to climate change.		
Clin	nate Change Adaptation Actions Proposed for 2018		
DS	DS Participation in ICLEI Canada's proposed 'Adapting Together' project. Specifically Esquimalt		
	proposes to identify and bring together local stakeholders in a community wide planning effort, use		
	climate change modelling data to identify local vulnerabilities, assess and prioritize climate risks		
	and develop an implementation-ready adaptation plan.		
For	For more information please contact:		

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?	
Indicators of Climate Change for British Columbia, 2016	Haven't Used
Plan2Adapt	Haven't Used
Climate Projections for Metro Vancouver	Haven't Used
Climate Projections for the Capital Region	Useful
Climate Projections for the Cowichan Valley Regional District	Not Useful
Province of BC's BC Adapts Video Series	Haven't Used
Preparing for Climate Change: An Implementation Guide for Local Governments	Useful
The Public Infrastructure and Engineering Vulnerability Committee's (PIEVC) protocol	Useful
Sea Level Rise Primer	Useful
BC Regional Adaptation Collaborative Webinars	Haven't Used
www.ReTooling.ca	Useful
Water Balance Model	Not Useful
The Water Conservation Calculator	Haven't Used
Funding:	
National Disaster Mitigation Program (NDMP)	Haven't Used
Community Emergency Preparedness Fund (CEPF)	Haven't Used
Municipalities for Climate Innovation Program (MCIP)	Useful
Climate Adaptation Partner Grants (FCM)	Useful
Infrastructure Planning Grants (MAH)	Useful
Federal Gas Tax Fund	Useful
Other:	

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.

Со	Community-Wide Actions Taken in 2017		
	Not applicable		
Со	Community-Wide Actions Proposed for 2017		
	Not applicable		

Co	Corporate Actions Taken in 2017		
	Not applicable		
Co	Corporate Actions Proposed for 2017		
	Not applicable		

Other	
Are you familiar with the Community Lifecycle Infrastructure Costing Tool (CLIC)?	Yes
· · · · · · · · · · · · · · · · · · ·	
Have you used CLIC?	No
	NO

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 <u>CEA's Climate and Energy Action Awards</u>, <u>UBCM Climate and Energy Action</u> <u>Award</u>, <u>FCM Sustainable Communities Awards</u> or through submissions to <u>FCM's National Measures</u> <u>Report</u>.

Community-Wide Action

In the fall of 2017, the Cool It! program reached 109 students in the Township of Esquimalt, through 5 workshops at 2 schools. During the program challenge, students committed to several energy saving actions over a 4-week period. Students' energy conserving and emissions saving actions at home resulted in the projected savings of a total of 58.723 tonnes of carbon dioxide (CO2e), if they continue their actions for one year.

For more information contact: Tricia.demacedo@esquimalt.ca Corporate Action

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

Programs and Funding CRD Climate Action Program-Cool It!, Oil to Heat Pump Program

Adaptation

Programs and Funding

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 <u>Becoming Carbon Neutral: A Guide</u> <u>for Local Governments in British Columbia.</u>

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	1307.3
the number of corporate GHG emissions (in tonnes of carbon dioxide equivalent)	
from services delivered <u>directly</u> by your local government:	
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:	
TOTAL A: CORPORATE GHG EMISSIONS FOR 2017	1307.3
	tCO2e

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 (tCO2e)) being claimed from Option 1 GHG Reduction Projects:

OPTION 1 PROJECTS	REDUCTIONS
Energy Efficient Retrofits	
Solar Thermal	
Household Organic Waste Composting (CRD+Esquimalt composting)	105.6+99.3=204.9
Low Emission Vehicles	
Avoided Forest Conversion	
TOTAL B: REDUCTIONS FROM OPTION 1 PROJECTS FOR 2017	204.9
	tCO2e

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
TOTAL C: REDUCTIONS FROM OPTION 2 PROJECTS FOR 2017	tCO2e

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
TOTAL D: OFFSETS PURCHASED FOR 2017	tCO2e

TOTAL REDUCTIONS AND OFFSETS FOR 2017 (Total B+C+D) = 204.9 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 = 1307.3 - 204.9 = 1102.4 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
BALANCE OF REDUCTIONS ELIGIBLE FOR CARRY OVER TO NEXT YEAR	tCO2e

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

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:

PROJECT NAME:

Sustainability Reserve Fund: The CARIP grant is deposited in the Sustainability Reserve Fund to be used for funding sustainability initiatives that reduce GHG emissions and move the Township forward to achieving its Climate Action Charter goals.

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:

Level 1 – Demonstrating Progress on Charter Commitments	
Level 2 – Measuring GHG Emissions	
Level 3 – Accelerating Progress on Charter Commitments	х
Level 4 - Achievement of Carbon Neutrality	
Not Sure	

Appendix: 2017 Corporate Energy and Emissions Inventory

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