

Township of  
**ESQUIMALT**

Development Services



## Climate Action Revenue Incentive (CARIP) Public Report for 2013

March 2014

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## Community Wide Actions for 2013

### 1.1 Measure

#### Community Wide Measurement Actions

<b>Question</b>	Have you been using the Community Energy and Emissions Inventory (CEEI) to measure progress? What else have you been using instead of/in addition to CEEI?
<b>Answer</b>	Yes
<b>Additional Information</b>	The 2007 CEEI was selected as the baseline year. Future CEEI reports will be used to measure progress on community-wide climate action initiatives.

### 1.2 Plan

#### Community Wide Targets

<b>Question</b>	Does your OCP(s) have targets, policies and actions to reduce GHG emissions, as per the requirements under the <i>Local Governments Act (LGA)</i> ? If yes, please identify the targets set. If no or in progress, please comment.
<b>Answer</b>	Yes
<b>Additional Information</b>	To reduce community greenhouse gas emissions by at least 38% by 2020 and 83% by 2050 compared to 2007 levels.

### 1.3 Reduce

#### Supportive Community Wide Actions

<b>Action Type</b>	Broad Planning
<b>Actions Taken this Year</b>	Continued work on the West Bay Design Guidelines that will contain guidelines for the reduction of greenhouse gases.
<b>Proposed Actions for Next Year</b>	Update of OCP which will include the addition of GHG reduction targets, policies and actions to help mitigate the impacts of climate change.

Action Type	Building and Lighting
<b>Actions Taken this Year</b>	<p>Continued with the new Design Review Committee, comprised of up to three members with knowledge or experience in energy conservation and environmentally sustainable building design: <a href="http://www.esquimalt.ca/files/PDF/Municipal_Hall/Bylaw_2792_-_APC_bylaw.pdf">http://www.esquimalt.ca/files/PDF/Municipal_Hall/Bylaw_2792_-_APC_bylaw.pdf</a></p> <p>Continued to work with developers on various infill projects.</p> <p>Introduced new Development Permit Guidelines for the Old English Inn (429 Lampson St) requiring the use of green building standards and technology, on-site renewable energy systems (where feasible), and encourages on-site energy recovery.</p>
<b>Proposed Actions for Next Year</b>	<p>Promote the LiveSmart BC: Small Business Program, offering free energy assessments, through the mailing of business licence renewal notices (reach approx. 700).</p> <p>Approve a rezoning application (622 Admirals) that would dramatically increase density in the downtown core and reduce parking requirements.</p>

Action Type	Energy Generation
<b>Actions Taken this Year</b>	N/A
<b>Proposed Actions for Next Year</b>	Complete installation of an energy monitoring system to display the effectiveness of the new solar ambient hot water system at the Esquimalt Recreation Centre. The purpose of the display will be to educate the public on solar technology and its benefits.

Action Type	Green Space
<b>Actions Taken this Year</b>	<p>Completed inventory, mapping and multi-year Treatment Plan for Macaulay Point Park Species Protection. Staff have implemented findings into operational work plans.</p> <p>Hosted the 2nd Annual Bloomin' Beautiful Home and Garden Contest which included a new award category for best environmental practices:  <a href="http://www.esquimalt.ca/parksrecreation/specialevents/bloominbeautiful/">http://www.esquimalt.ca/parksrecreation/specialevents/bloominbeautiful/</a></p>
<b>Proposed Actions for Next Year</b>	Develop urban forest/greenway management strategy.

Action Type	Transportation
<b>Actions Taken this Year</b>	<p>Promoted electric battery powered vehicles and technology by having the Township's Nissan Leaf out on display at three community events.</p> <p>Completed an inventory of public access bicycle parking facilities in Esquimalt and drafted an Esquimalt Cycling Riders Map:  <a href="http://www.esquimalt.ca/files/PDF/Municipal_Hall/sustainabilityEnvironment/EsquimaltRidersMap-Portrait.pdf">http://www.esquimalt.ca/files/PDF/Municipal_Hall/sustainabilityEnvironment/EsquimaltRidersMap-Portrait.pdf</a></p> <p>Appointed a staff member to the CRD Pedestrian and Cycling Master Plan (PCMP) Project Advisory Committee.</p>
	<p>Continued with implementation of Pedestrian Charter. Conducted a review of wheelchair ramps and developed strategy for the installation of new ramps. Began implementation of findings from the 2012 sidewalk trip hazard and ramp study. In 2013 all twenty-seven No.1 hazards and two No. 2 hazards were repaired.</p> <p>Completed a pavement condition index report which will be used to initiate a strategy for road corridor rehabilitation (underground and surface).</p> <p>Completed planning, design work and public consultation on the upgrade of the Admirals Road Corridor which would include the addition of bike lanes, street lighting and improved transit infrastructure.</p> <p>Council to advocate for connected multi-modal transportation.</p>
<b>Proposed Actions for Next Year</b>	<p>Dependent on budget, conduct multimodal right-of-way study of Lyall Street between Grafton Road and Head Street.</p> <p>Continue with staff member appointment to the CRD Pedestrian and Cycling Master Plan (PCMP) Project Advisory Committee.</p> <p>Continue with implementation of Sidewalk Continuity Plan.</p> <p>Develop asset management strategy for wheelchair ramps.</p>

Action Type	Waste
<b>Actions Taken this Year</b>	<p>Hosted public open houses on the introduction of residential kitchen scraps collection in 2014.</p>
<b>Proposed Actions for Next Year</b>	<p>Complete and distribute Green Event Planning Guide for community events.</p>

Action Type	Water/Sewer
<b>Actions Taken this Year</b>	<p>Completed study on potential opportunities for resource recovery opportunities from the waste water treatment plant (liquid and solids portions).</p> <p>Designed upgrade of the Admirals Road Corridor which includes improvements to the storm and sanitary manholes including mechanical storm water treatment. Construction to commence in 2014.</p>
<b>Proposed Actions for Next Year</b>	N/A

Action Type	Other Actions
<b>Actions Taken this Year</b>	<p>Continued with Environmental Advisory Committee to Council:  <a href="http://www.esquimalt.ca/municipalHall/committees/environmentalAdvisoryCommittee/Default.aspx">http://www.esquimalt.ca/municipalHall/committees/environmentalAdvisoryCommittee/Default.aspx</a></p> <p>Continued with ongoing communication of climate action and sustainability initiatives through the website, community newsletter and media releases.</p> <p>Carried out a detailed site investigation for the Esquimalt Village Project brown field remediation.</p> <p>Hosted a round table discussion on the Environment/Green Economy, one of nine sector round tables conducted, in drafting an Economic Development Strategy for Esquimalt. Participants included members of the Environmental Advisory Committee, local businesses and business leaders with a green focus in the capital region.</p>
<b>Proposed Actions for Next Year</b>	<p>Dependent on budget, carry out additional work in order to finalize the Esquimalt Village Project remediation plan and associated costs.</p> <p>Develop and distribute educational material for residents on the potential hazard of home heating oil tank leaks.</p>

### Direct Community Wide Actions

Action Type	Buildings
<b>Actions Taken this Year</b>	<p>Council and staff continued to work with developers to encourage greener features and technologies in new developments with the use of the Green Building Checklist:  <a href="http://www.esquimalt.ca/files/PDF/Business_and_Development/Green_Checklist_2011_Final_Complete.pdf">http://www.esquimalt.ca/files/PDF/Business_and_Development/Green_Checklist_2011_Final_Complete.pdf</a></p>
<b>Proposed Actions for Next Year</b>	Continue to encourage the incorporation of green features into new buildings.

Action Type	Transportation
<b>Actions Taken this Year</b>	<p>Installed two public electric vehicle charging stations (Level 2) in the back parking lot of the Esquimalt Municipal Hall and Library. Use of the station is complimentary; however, the Township may charge fees in the future:  <a href="http://www.esquimalt.ca/municipalHall/sustainabilityEnvironment/evCharging.aspx">http://www.esquimalt.ca/municipalHall/sustainabilityEnvironment/evCharging.aspx</a></p> <p>Installed two new bus shelters along Esquimalt Road. One in front of Memorial Park. The second at Lampson St.</p> <p>Continued implementation of Sidewalk Continuity Plan. Completed installation of sidewalk on Wordsley Street [70 m] and along northern side of Coles Street [91 m].</p> <p>Began implementation of findings from the 2012 sidewalk trip hazard and ramp study. In 2013 all twenty-seven No.1 hazards and two No. 2 hazards were repaired.</p> <p>Installed a bus stop, replaced sidewalks [270 m] including 4 wheelchair ramps and completed road restoration as part of Dunsmuir Road Corridor Upgrade.</p> <p>Installed 2 new wheelchair ramps at the south side of Lyall Street and Grafton Street.</p>
<b>Proposed Actions for Next Year</b>	<p>Construction to begin on Admirals Road Corridor which would include the addition of bike lanes, street lighting and improved transit infrastructure.</p> <p>Replace Sioux Place pedestrian bridge.</p> <p>Install one new bus shelter at 1008 Craigflower Rd.</p>

Action Type	Waste
<b>Actions Taken this Year</b>	<p>The Environmental Advisory Committee created signage for a recycling and compost re-sortation station at community events.</p> <p>Continued with collection of yard and garden waste at transfer station.</p> <p>Developed a residential household organics collection program for implementation in 2014:  <a href="http://www.esquimalt.ca/files/PDF/Municipal_Services/Waste_Management_Changes_Web.pdf">http://www.esquimalt.ca/files/PDF/Municipal_Services/Waste_Management_Changes_Web.pdf</a></p> <p>Provided guidance on how to organize composting and recycling collection for two community events (Earth Day and Buccaneer Days).</p>
<b>Proposed Actions for Next Year</b>	<p>Begin the collection of residential kitchen scraps in March 2014.</p>

Action Type	Water/Sewer
<b>Actions Taken this Year</b>	Separated 14 sanitary and storm manholes.
<b>Proposed Actions for Next Year</b>	N/A

Action Type	Green Space
<b>Actions Taken this Year</b>	<p>Planted 83 trees adjacent to streets and in parks.</p> <p>Held an Earth Day event in Highrock Park and planted 60 Douglas Fir seedlings as well as 3 Garry Oak trees in Cairn Park.</p> <p>Removed 500 square metres of invasive plants at Cairn and Macaulay Point Parks.</p>
<b>Proposed Actions for Next Year</b>	N/A

Action Type	Other Actions
<b>Actions Taken this Year</b>	N/A
<b>Proposed Actions for Next Year</b>	Complete installation of the ""Portland Loo"" in West Bay Park.



## Corporate Actions for 2013

### 2.1 Measure

#### Corporate Measurement Actions

<b>Question</b>	What steps has your local government taken toward completing its corporate emissions inventory?
<b>Answer</b>	The Township of Esquimalt has identified corporate assets and related energy and fuel data within the scope of the Carbon Neutral Corporate Operations workbook, including contracted services.
<b>Question</b>	What tool are you using to measure, track and report on your corporate emissions?
<b>Answer</b>	The Township of Esquimalt is measuring, tracking and reporting its corporate emissions using an excel spreadsheet provided by the Capital Regional District. This tool conforms to the 2013 methodology provided by the Province of BC.

### 2.2 Reduce

#### Supportive Corporate Actions

Action Type	Building and Lighting
<b>Actions Taken this Year</b>	Commissioned and completed an aquatic energy retrofit at the Esquimalt Recreation Centre. Conducted an inventory of street light types, wattages and lighting strength. Included an LED street lighting option in the design of the Admirals Road Corridor Upgrade.
<b>Proposed Actions for Next Year</b>	Installation of a trial LED street lighting on the Admirals Road Corridor Project in order to evaluate the option of LED street lighting for use across the Township.

Action Type	Transportation
<b>Actions Taken this Year</b>	<p>Had a team of Camosun College students create an inventory of the Township's cycling infrastructure. The project placed first out of 18 teams participating in the CRD Student Climate Challenge ""Ready, Set, Solve"" program: <a href="http://www.esquimalt.ca/news/news04091301.aspx">http://www.esquimalt.ca/news/news04091301.aspx</a></p> <p>Staff promoted and participated in Bike to Work Week and a celebration station hosted at Esquimalt Memorial Park. The Township recognized all staff members who took an alternative commute (e.g. walk, bus and carpool) to work.</p>
<b>Proposed Actions for Next Year</b>	N/A

Action Type	Other Actions
<b>Actions Taken this Year</b>	Township continued with funding of the Sustainability Reserve Fund. Money from this fund will be used for the provision of sustainability initiatives and specifically to make progress on the Township's Climate Action Charter commitments.
<b>Proposed Actions for Next Year</b>	N/A

### Direct Corporate Actions

Action Type	Building and Lighting
<b>Actions Taken this Year</b>	<p>Continued with progress in implementing energy study recommendations by completing lighting upgrades at the Public Works Yard and Esquimalt Municipal Hall.</p> <p>Installed a new energy efficient HVAC system at Public Works Building.</p> <p>Installed 14 new LED lights within parks to replace older style lighting.</p> <p>Upgraded IT equipment and removed 8 servers and 2 network switches.</p>
<b>Proposed Actions for Next Year</b>	Continue to upgrade IT equipment and remove 3 additional servers, 2 internet modems, another 4 network switches and 1 firewall.

Action Type	Fleet
<b>Actions Taken this Year</b>	<p>Installed two electric vehicle charging stations (Level 2) in the back parking lot of the Esquimalt Municipal Hall and Library:  <a href="http://www.esquimalt.ca/municipalHall/sustainabilityEnvironment/evCharging.aspx">http://www.esquimalt.ca/municipalHall/sustainabilityEnvironment/evCharging.aspx</a></p> <p>Purchased a 100% electric battery powered vehicle (zero emissions) and one hybrid vehicle.</p>
<b>Proposed Actions for Next Year</b>	N/A

Action Type	Waste
<b>Actions Taken this Year</b>	Awarded a new service contract for the collection of recyclable material from all municipal buildings.
<b>Proposed Actions for Next Year</b>	<p>Implement a paperless Council Agenda coordination and distribution process.</p> <p>Implement collection of kitchen scraps from all municipal buildings.</p>

Action Type	Water/Sewer
<b>Actions Taken this Year</b>	Upgraded Grafton sewer pump station with energy efficient components.
<b>Proposed Actions for Next Year</b>	Continue with upgrading of sewer pump stations.

Action Type	Green Space
<b>Actions Taken this Year</b>	Rejuvenated two historic Garry Oaks on the grounds of the Municipal Hall with a root invigoration treatment: <a href="http://www.esquimalt.ca/news/news06111301.aspx">http://www.esquimalt.ca/news/news06111301.aspx</a>
<b>Proposed Actions for Next Year</b>	N/A

# Carbon Neutral Progress Reporting

## 3.1 Carbon Neutral Progress Reporting

Emissions/Offsets	Tonnes CO2e
<b>Annual corporate emissions using SMARTTool or equivalent inventory tool</b>	<b>1,038</b>
<i>Emissions from services delivered directly by the local government</i>	<b>1,038</b>
<i>Emissions from contracted services</i>	0
<b>Less:</b> GHG reductions being claimed for this reporting year from Option 1 - GHG reduction project	<b>0</b>
<i>Energy Efficient Building Retrofits and Fuel Switching</i>	
<i>Solar Thermal</i>	
<i>Household Organic Waste Composting</i>	
<i>Low Emissions Vehicles</i>	
<b>Less:</b> GHG reductions being claimed for this reporting year from Option 2 - GHG reduction projects	<b>0</b>
<i>Option 2 Project A</i>	
<i>Option 2 Project B</i>	
<i>Sum of Other Option 2 Projects (if you have added projects below)</i>	<b>0</b>
<b>Less:</b> <i>Offsets purchased for this reporting year (Option 3). Please identify your offset provider in the offset provider information section below.</i>	
<b>Balance of corporate emissions for this reporting year.</b> <i>(If the corporate emissions balance is zero, your local government is carbon neutral for this reporting year)</i>	<b>1,038</b>
<b>Additional "Option 2" Projects</b>	

## 3.2 Making Progress on Your Carbon Neutral Commitment

<b>Question</b>	If your community has not achieved carbon neutrality for this reporting year please describe the actions that you intend to take next year to move you toward your carbon neutral goal.
<b>Answer</b>	<p>Continue to fund the Sustainability Reserve Fund which may be used to fund projects that reduce or balance corporate emissions.</p> <p>Develop an Option 1 - GHG reduction project for household organic waste composting. Municipal collection of residential kitchen scraps commences March 2014.</p>