

Climate Action Revenue Incentive Plan (CARIP) Public Report

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*Township of Esquimalt
Capital Regional District*

Reported by
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General Information

Name of Local Government	<i>Township of Esquimalt</i>
Member of Regional District (RD)	<i>Capital Regional District</i>
Regional Growth Strategy (RGS) in region	<i>Yes</i>
Population	<i>17,689</i>

Community Wide Actions for 2011

1.1 Measure

Community Wide Measurement Actions

Question	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?
Answer	Yes
Additional Information	<i>Esquimalt has been using the 2007 CEEI as a baseline year. Future CEEI will be used to measure progress on community-wide climate action when available.</i>

1.2 Plan

Community Wide Targets

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

1.3 Reduce

Supportive Community Wide Actions

Action Type	<i>Broad Planning</i>
Actions Taken this Year	<i>Created framework for community engagement in climate action: http://www.esquimalt.ca/files/PDF/Municipal_Hall/sustainabilityEnvironment/IHG_Community_Engagement-FINAL_REPORT.pdf</i>

	<p><i>Continued with Environmental Advisory Committee to Council.</i></p> <p><i>Increased awareness of climate action initiatives through the community newsletter and distribution of 9 [nine] media releases.</i></p> <p><i>Updated municipal website to include information on actions being taken by the Township to address climate change.</i></p>
Proposed Actions for Next Year	<p><i>Implementation of pilot based on climate action community engagement framework.</i></p> <p><i>Adopt zoning amendments to increase densification as part of revitalization of downtown core.</i></p> <p><i>Adopt zoning amendments to increase densification in neighbourhood commercial zone.</i></p> <p><i>Complete community energy and emissions plan.</i></p>

Action Type	<i>Building and Lighting</i>
Actions Taken this Year	<p><i>Council and staff worked with developers to encourage greener features and technologies in new developments with the use of the Green Building Checklist: http://www.esquimalt.ca/files/PDF/Business_and_Development/Green_Checklist_2011_Final_Complete.pdf</i></p>
Proposed Actions for Next Year	<p><i>Revision of Advisory Planning Commission's Terms of Reference to include one representative from the Environmental Advisory Committee.</i></p>

Action Type	<i>Energy Generation</i>
Actions Taken this Year	<p><i>Signed on to the provincial 'solar ready' regulation.</i></p>
Proposed Actions for Next Year	<p><i>Conduct a pre-feasibility study for District Energy in Village Core.</i></p> <p><i>Promote solar hot water installations with the funding available as part of the BC 'Solar</i></p>

	<i>Community' program.</i>
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Action Type	Transportation
Actions Taken this Year	<p><i>Completed multimodal transportation evaluation of Admirals Road Corridor.</i></p> <p><i>Township was awarded \$10,000 through the Healthy Families BC Walking Challenge after 141 residents shared their stories, photos and videos about walking in Esquimalt online. The monies will go towards improving green space.</i></p>
Proposed Actions for Next Year	<p><i>Upgrade additional bus shelters along Craigflower Road.</i></p> <p><i>Conduct multimodal transportation evaluation of Lyall Street between Grafton Road and Head Street.</i></p> <p><i>Conduct bike lane study for Lampson Street.</i></p>

Action Type	Waste
Actions Taken this Year	
Proposed Actions for Next Year	<i>Develop and distribute green event planning guidelines for community events.</i>

Direct Community Wide Actions

Action Type	Buildings
Actions Taken this Year	<p><i>Partnered in the Provincial Time of Sale Home Energy Labeling Pilot in the CRD by sponsoring up to twenty Esquimalt homes.</i></p> <p><i>Promoted and participated in 2011 Earth Hour. During the hour-long event, Esquimalt's electricity consumption decreased by 1.3%.</i></p>

	<i>Continued with use of the Green Building Checklist for new developments.</i>
Proposed Actions for Next Year	

Action Type	Transportation
Actions Taken this Year	<p><i>Substantial completion of Phase 2 of Craigflower Road Upgrade Project.</i></p> <p><i>Additional 2 km of bike lanes and 2km of sidewalks on Craigflower Road between Admirals Road and Garthland Road.</i></p> <p><i>Completed 750 m of bike lanes on Esquimalt Road between Lampson Street and Admirals Road.</i></p> <p><i>Upgraded six bus shelters along Craigflower Road.</i></p>
Proposed Actions for Next Year	<p><i>Complete Phase 2 of Craigflower Road Upgrade Project.</i></p> <p><i>Additional 300 metres of sidewalk on the south side of Craigflower Road between Garthland Road and Tillicum Road.</i></p> <p><i>Create connectivity with the addition of a sidewalk on Sioux Place.</i></p> <p><i>Planned repairs and minor addition of 20 metres of sidewalk.</i></p>

Action Type	Water/Sewer
Actions Taken this Year	<p><i>Built a Rain Garden on Yarrow Place. The Rain Garden acts as a storm water filtration and management facility for the road run-off from Craigflower Road before entering the Gorge Waterway.</i></p> <p><i>Addition of two storm water management chambers (underground mechanical sediment debris control) on Craigflower Road.</i></p> <p><i>Separated nine sanitary and storm man holes.</i></p>

Proposed Actions for Next Year	<p><i>Addition of one storm water management chamber (underground mechanical sediment debris control) on Craigflower Road.</i></p> <p><i>In conjunction with the CRD, evaluate the management of cross connections of storm and sanitary services.</i></p> <p><i>Plan to separate twenty sanitary and storm man holes.</i></p>
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Action Type	<i>Green Space</i>
Actions Taken this Year	<i>Planted ninety-nine trees in parks and boulevards.</i>
Proposed Actions for Next Year	

1.4 Community Wide Innovation

Question	<p>Is there any activity that you have been engaged in over the past year(s) that you are particularly proud of and would like to share with other local governments? Please describe and add links to additional information where possible.</p>
Answer	<p><i>Developed a Plastic Bag Free initiative for the community:</i> http://www.esquimalt.ca/files/PDF/Municipal_Hall/sustainabilityEnvironment/Ethos_Plastic_Shopping_Bags-FINAL_REPORT.pdf</p>

Corporate Actions for 2011

2.1 Measure

Corporate Measurement Actions

Question	What steps has your local government taken toward completing its corporate emissions inventory (e.g. corporate assets gathered related to energy and fuel data and calculated GHG emissions from energy use)?
Answer	<i>The Township of Esquimalt has identified corporate assets within the scope of the Climate Action Charter's Carbon Neutrality workbook and related energy and fuel data and corresponding GHG emissions.</i>

Question	What tool are you using to measure, track and report on your corporate emissions (e.g. SMARTtool, other tools including excel spreadsheets)?
Answer	<i>The Township of Esquimalt is measuring, tracking and reporting its corporate emissions using an excel spreadsheet.</i>

2.2 Reduce

Supportive Corporate Actions

Action Type	<i>Broad Planning</i>
Actions Taken this Year	<i>Developed draft policy for new and existing green municipal buildings.</i>
Proposed Actions for Next Year	<i>Complete Corporate Climate Action Plan.</i>

Action Type	<i>Building and Lighting</i>
Actions Taken	

this Year	<i>Developed Street Light Maintenance Plan including inventory and 5 year replacement plan.</i>
Proposed Actions for Next Year	

Action Type	Transportation
Actions Taken this Year	<i>Staff promoted and participated in Bike to Work Week. The Township recognized all staff members who took an alternative commute (e.g. walk, bus and carpool) to work.</i> <i>Hosted Transportation Tune Up lunch & learn session for staff.</i> <i>Built a covered and secure bike lock-up for staff at the Municipal Hall.</i>
Proposed Actions for Next Year	<i>Adopt green fleet purchasing and disposal policy.</i>

Action Type	Waste
Actions Taken this Year	
Proposed Actions for Next Year	<i>Develop policy for hosting zero waste municipal events.</i>

Action Type	Other Actions
Actions Taken this Year	
Proposed Actions for Next Year	<i>Consult with a Corporate "Green Team" on development and implementation of climate action initiatives.</i>

Direct Corporate Actions

Action Type	<i>Building and Lighting</i>
Actions Taken this Year	<p><i>Upgraded to more energy efficient street lighting on Craigflower Road.</i></p> <p><i>Upgrade lighting systems and controls in Public Safety Building.</i></p> <p><i>Installed five light sensors in the Municipal Hall.</i></p> <p><i>Completed energy efficiency retrofits at the Archie Browning Sports Centre which included: new roof with an insulation of R-18; installation of variable frequency drivers on the refrigeration plant; modifications to the air handling units; addition of direct digital control system (DCC) to control the air handling units and refrigeration plant; and upgrading of lighting systems and controls.</i></p>
Proposed Actions for Next Year	<p><i>Improve street lighting configuration and efficiency along Old Esquimalt Road and Lampson Street.</i></p> <p><i>Commence energy efficiency retrofits at the Esquimalt Recreation Centre.</i></p>

Action Type	<i>Energy Generation</i>
Actions Taken this Year	<i>Implemented heat recovery system at the Archie Browning Sports Centre where heat off the curling rink compressors is being reclaimed to preheat the domestic hot water system.</i>
Proposed Actions for Next Year	<i>Installation of solar hot water and heat recovery system to preheat the domestic hot water system at the Esquimalt Recreation Centre.</i>

Action Type	<i>Waste</i>
Actions Taken this Year	<i>Implemented Call2Recycle program for batteries at Municipal Hall and Fire Hall.</i>

	<i>Installed organic material digester at Parks Nursery.</i>
Proposed Actions for Next Year	<i>Expand Call2Recycle program for batteries to include all municipal buildings. Implement composting of organics in all municipal buildings.</i>

Action Type	<i>Water/Sewer</i>
Actions Taken this Year	<i>Completed water efficiency upgrading of all toilets and sink faucets at the Archie Browning Sports Centre. Installed a filtered water bottle refilling station at the Archie Browning Sports Centre.</i>
Proposed Actions for Next Year	<i>Replace components of one sewer pump station to achieve greater energy efficiency.</i>