



Climate Action Revenue Incentive Program 2014 Public Report

March 2015

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APPENDIX

2014 CORPORATE ENERGY & EMISSIONS INVENTORY

LOCAL GOVERNMENT INFORMATION

NAME OF LOCAL GOVERNMENT	Corporation of the Township of Esquimalt
NAME OF MEMBER REGIONAL DISTRICT (RD)	Capital
REGIONAL GROWTH STRATEGY (RGS) IN YOUR REGION?	Yes
POPULATION	10,000-49,999

BROAD PLANNING

CORPORATE - Broad Planning

	Actions taken in 2014	Actions proposed for 2015
Feasibility Studies, Research, Analysis	(No Action)	Dependent on budget, carry out additional work in order to finalize the Esquimalt Village Project remediation plan and associated costs.
Committees, Staffing	Continued with Environmental Advisory Committee to Council.	(Ongoing)
Funding	<p>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.</p> <p>Submitted funding to the Federation of Canadian Municipalities to undertake further investigation into a brownfield remediation plan for the Esquimalt Village Project.</p>	(Ongoing)

COMMUNITY-WIDE - Broad Planning

	Actions taken in 2014	Actions proposed for 2015
Plans, Policies, Regulations	<p>Approved a rezoning application (622 Admirals) that would dramatically increase density in the downtown core.</p> <p>Approved a number of infill developments leading to a greater densification in the community.</p>	<p>Continue work on the West Bay Design Guidelines that will contain guidelines for the reduction of greenhouse gases.</p> <p>Consider a rezoning application to allow a mid-rise, mixed-use building in West Bay.</p> <p>Update of OCP which will include the addition of GHG reduction targets, policies and actions to help mitigate the impacts of climate change.</p>
Community Education, Engagement	Continued with ongoing communication of climate action and sustainability initiatives through the website, community newsletter and media releases.	(Ongoing)

BUILDINGS

CORPORATE - Buildings

	Actions taken in 2014	Actions proposed for 2015
Physical Improvements, Construction	<p>Installed new motion sensors on light fixtures over top of the hockey rink surface.</p> <p>Upgraded to LED lighting for the outside of the Esquimalt Recreation Centre.</p> <p>Upgraded IT equipment and removed 3 servers, 2 internet modems, 4 network switches and 1 firewall.</p>	(No Action)
Feasibility Studies, Research, Analysis	Collaborated with the Cascadia Green Building Council to organize an international "Living Building Competition" for the Esquimalt Village Project.	(No Action)

COMMUNITY-WIDE - Buildings

	Actions taken in 2014	Actions proposed for 2015
Plans, Policies, Regulations	Approved a number of infill developments many of which included the replacement of older building stock with more energy efficient new home construction.	Review and updating of the Green Building Checklist.
Policy Implementation	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.	(Ongoing)
Community Education, Engagement	<p>Promoted the LiveSmart BC: Small Business Program which offered free energy assessments to small and medium sized businesses, through the mailing of business licence renewal notices (reach approx. 700). As a result of the promotion, 9 Esquimalt businesses participated in the program.</p> <p>Promoted 2014 Earth Hour by</p>	(No Action)

Committees,
Staffing

asking residents and businesses to turn off lights and electrical devices for one hour on Saturday, March 29, 2014. Esquimalt placed second out of 69 participating BC communities with energy savings of 5.8% during the hour.

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. (Ongoing)

Organized a meeting between representatives from BC Hydro and Esquimalt Neighbourhood House to discuss promotion of the Energy Conservation Assistance Program (ECAP) to low income households in Esquimalt. The program provides qualifying households with a free home energy evaluation and free installation of energy saving products.

ENERGY GENERATION

COMMUNITY-WIDE - Energy Generation

Actions taken in 2014

Actions proposed for 2015

	Actions taken in 2014	Actions proposed for 2015
Community Education, Engagement	(No Action)	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.

GREENSPACE

COMMUNITY-WIDE - Greenspace

	Actions taken in 2014	Actions proposed for 2015
Physical Improvements, Construction	<p>Held an Earth Day celebration in Highrock Park with volunteers assisting with the removal of invasive species and planting of 100 native plants.</p> <p>Accomplished tree planting in Saxe Point Park in conjunction with Greater Victoria Green Team Volunteers and Parks staff.</p> <p>Completed weed pull of invasive plants - scotch broom and tree lupine - at Macaulay Point Park.</p>	Planting of coniferous trees and removal of invasive plants in the following parks: Saxe Point, Highrock, Esquimalt Gorge, and Macaulay Point.
Feasibility Studies, Research, Analysis	<p>Conducted research on replenishing the Parkland Acquisition Reserve Fund. Drafted a complete list of potential Township properties for disposal. Proceeds from these property sales would be transferred to a Reserve Fund and would be used for future acquisition of strategic properties.</p>	(No Action)
Plans, Policies, Regulations	Drafted Tree Protection Bylaw.	Adoption of Tree Protection Bylaw.
Community Education, Engagement	Hosted the 3rd Annual Bloomin' Beautiful Home and Garden Contest which includes an award category for best environmental practices.	(Ongoing)

SOLID WASTE

CORPORATE - Solid Waste

	Actions taken in 2014	Actions proposed for 2015
Plans, Policies, Regulations	Adopted new solid waste bylaw which includes kitchen scraps pickup.	Complete and distribute Green Event Planning Guide for municipal events.
Policy Implementation	Implemented the collection of kitchen scraps from all municipal buildings. Implemented a paperless Council Agenda coordination and distribution process.	(Ongoing)

COMMUNITY-WIDE - Solid Waste

	Actions taken in 2014	Actions proposed for 2015
Physical Improvements, Construction	(No Action)	Clean-up of E&N Rail Trail of litter and removal of invasive species and overgrowth of bushes.
Policy Implementation	Continued with collection of yard and garden waste at transfer station. [Total tonnage removed from site in 2014 = 664.22] Implemented a residential household organics collection program on March 19, 2014. [Tonnage of kitchen scraps collected for composting in 2014 = 360.06]	Working with the CRD to determine a process for handling kitchen scraps as well as yard and garden waste on Vancouver Island. Current method of hauling collected kitchen scraps to the Mainland for processing to continue.
Community Education, Engagement	Hosted a public information session on new solid waste and kitchen scraps pickup program. Presented to over 300 students on the environmental benefits of composting and recycling household waste at Earth Day celebrations.	Complete and distribute Green Event Planning Guide for community events.

TRANSPORTATION

CORPORATE - Transportation

	Actions taken in 2014	Actions proposed for 2015
Employee Training, Awareness	Employee driven participation in Greater Victoria Bike to Work Week.	(Ongoing)

COMMUNITY-WIDE - Transportation

	Actions taken in 2014	Actions proposed for 2015
Physical Improvements, Construction	<p>Installed three additional BC Transit shelters. One on Craigflower west of Tillicum; one in front of Memorial Park; and one on Esquimalt Road just west of Lampson.</p> <p>Continued implementation of Sidewalk Continuity Plan. Completed installation of sidewalk along the west side of Arcadia Street from Craigflower Road to Inskipp Street [75 m]. As part of Fairview Road Corridor upgrade an additional [175 m] of sidewalk was added.</p> <p>Continued implementation of findings from the 2012 sidewalk trip hazard. In 2014 a total of twenty-one No. 2 hazards were repaired.</p> <p>Completed installation of the ""Portland Loo"" at the West Bay Walkway.</p>	<p>Continue with implementation of Sidewalk Continuity Plan. Second phase of Arcadia new sidewalk construction to take place in 2015.</p> <p>Construction to begin on Admirals Road Corridor which would include the addition of bike lanes, street lighting and improved transit infrastructure. The project will also include the installation of a trial LED street lighting in order to evaluate the option of LED street lighting for use across the Township.</p> <p>Sidewalk trip hazard study to take place.</p>
Feasibility Studies, Research, Analysis	(No Action)	Conduct multimodal right-of-way study of Lyall Street between Grafton Road and Head Street.
Plans, Policies, Regulations	(No Action)	Develop asset management strategy for wheelchair ramps.
Policy Implementation	<p>Collaborated with CRD staff on a regional Bicycle Rider's Map and wayfinding guidelines for bicycle riders.</p> <p>Conducted one year review of the public level 2 electric vehicle</p>	Designate a second parking stall for electric vehicle charging only at the Esquimalt Municipal Hall and Library.

	charging station at the Esquimalt Municipal Hall and Library. The Township will continue to provide free use of the EV charging station.	
Community Education, Engagement	Presented to over 300 students on the environmental benefits of electric vehicles at Earth Day celebrations.	(No Action)
Committees, Staffing	Provided support to the Esquimalt Bike Festival, an event organized by community volunteers. Event included a bike rodeo, skills course for kids, information booths, and a concession provided by the Esquimalt Lions and highlighted by a group bike ride through Esquimalt.	(No Action)
	Continued with staff member appointment to the CRD Pedestrian and Cycling Master Plan (PCMP) Project Advisory Committee.	(Ongoing)

WATER and WASTEWATER

COMMUNITY-WIDE - Water and Wastewater

	Actions taken in 2014	Actions proposed for 2015
Physical Improvements, Construction	<p>Separated 6 sanitary and storm manholes.</p> <p>Replaced 4 catch basins. 2014 was the first year of a three year catch basin replacement program. The new catch basins meet the latest standards which improve the control of sediment to receiving bodies.</p>	<p>Replacement of 20 catch basins is scheduled for 2015.</p> <p>Upgrade of the Admirals Road Corridor which includes improvements to the storm and sanitary manholes including mechanical storm water treatment. Construction to commence in 2015.</p>
Feasibility Studies, Research, Analysis	<p>Collaborated with the Cascadia Green Building Council to organize an international “Living Building Competition” for the Esquimalt Village Project. The “Living Building Competition” will involve a waste resource management component.</p> <p>Formed a select committee between Esquimalt, Colwood, Langford, View Royal and Songhees Nation to find a westside solution to Wastewater Treatment and Resource Recovery. A westside solution could allow us to maximize the benefits and value for tax dollars to participating communities by identifying the unique needs of the westside and exploring alternate treatment technologies.</p>	<p>Carry out 6 Open Houses to gather community input on wastewater treatment and resource recovery.</p> <p>Undertake a review of available technology and land availability in westside communities.</p> <p>Seek additional community input once siting and technology review is completed.</p>
Community Education, Engagement	<p>Designed a neighbourhood watersheds map that shows the flow of storm water runoff to nearby receiving bodies of water to educate residents on source control.</p>	<p>See public input opportunities under feasibility studies, research, analysis.</p>

Local Government Name:	Corporation of the Township of Esquimalt
Year:	2014
Contact Information:	
Name:	Marlene Lagoa
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Stationary Emission Sources:				
Building Fuel	End Use	Unit of Measure	Quantity	Emissions (tCO2e)
Electricity	Engineering & Public Works	kWh	184,000	1.8
Electricity	Fire	kWh	319,680	3.2
Electricity	Municipal Hall	kWh	344,356	3.4
Electricity	Parks & Recreation	kWh	3,473,629	34.7
Electricity	Infrastructure (sewer/traffic/lighting)	kWh	898,134	9.0
Electricity	0	kWh	-	-
Natural Gas	Engineering & Public Works	GJ	288	14.3
Natural Gas	Fire	GJ	-	-
Natural Gas	Municipal Hall	GJ	164	8.2
Natural Gas	Parks & Recreation	GJ	12,329	613.4
Natural Gas	Infrastructure (sewer/traffic/lighting)	GJ	-	-
Natural Gas	0	GJ	-	-
Propane	Engineering & Public Works	Litres	-	-
Propane	Fire	Litres	-	-
Propane	Municipal Hall	Litres	-	-
Propane	Parks & Recreation	Litres	118	0.2
Propane	Infrastructure (sewer/traffic/lighting)	Litres	-	-
Propane	0	Litres	-	-
Heating Oil	Engineering & Public Works	Litres	-	-
Heating Oil	Fire	Litres	-	-
Heating Oil	Municipal Hall	Litres	-	-
Heating Oil	Parks & Recreation	Litres	-	-
Heating Oil	Infrastructure (sewer/traffic/lighting)	Litres	-	-
Heating Oil	0	Litres	-	-
Stationary Emissions (all fuel types)				688.3
Mobile Emission Sources:				
Vehicle Class	Vehicle Fuel	Unit of Measure	Quantity	Emissions (tCO2e)
Light Duty Vehicle	Gasoline	Litres	1,958	7.1
Light Duty Truck	Gasoline	Litres	27,865	75.0
Heavy Duty Truck	Gasoline	Litres	11,855	27.8
Off Road Vehicle	Gasoline	Litres	3,517	7.9
Light Duty Vehicle	E10	Litres	-	-
Light Duty Truck	E10	Litres	-	-
Heavy Duty Truck	E10	Litres	-	-
Off Road Vehicle	E10	Litres	-	-
Light Duty Vehicle	E15	Litres	-	-
Light Duty Truck	E15	Litres	-	-
Heavy Duty Truck	E15	Litres	-	-
Off Road Vehicle	E15	Litres	-	-
Light Duty Vehicle	Diesel	Litres	-	-
Light Duty Truck	Diesel	Litres	-	-
Heavy Duty Truck	Diesel	Litres	507	1.3
Off Road Vehicle	Diesel	Litres	-	-
Light Duty Vehicle	B5	Litres	-	-
Light Duty Truck	B5	Litres	-	-
Heavy Duty Truck	B5	Litres	41,985	109.1
Off Road Vehicle	B5	Litres	15,528	42.9
Light Duty Vehicle	B10	Litres	-	-
Light Duty Truck	B10	Litres	-	-
Heavy Duty Truck	B10	Litres	-	-
Off Road Vehicle	B10	Litres	-	-
Light Duty Vehicle	B20	Litres	-	-
Light Duty Truck	B20	Litres	-	-
Heavy Duty Truck	B20	Litres	-	-
Off Road Vehicle	B20	Litres	-	-
Light Duty Vehicle	Natural Gas	kg	-	-
Light Duty Truck	Natural Gas	kg	-	-
Heavy Duty Truck	Natural Gas	kg	-	-
Off Road Vehicle	Natural Gas	kg	-	-
Light Duty Vehicle	Propane	Litres	2,286	3.5
Light Duty Truck	Propane	Litres	3,314	5.1
Heavy Duty Truck	Propane	Litres	-	-
Off Road Vehicle	Propane	Litres	-	-
Mobile Emissions (all fuel / vehicle combinations)			108,815	279.7
Fleet A/C Refrigerant Emissions				-
Total Emissions (all Sources)				968.0