

Climate Action Revenue Incentive Program (CARIP) Public Report

Climate Action Revenue Incentive (CARIP)

Public Report for YEAR 2013

Capital Regional District



Report Submitted by

Liz Ferris

Climate Action Coordinator

lferris@crd.bc.ca

May 28, 2014

General Information

Name of Local Government	Capital Regional District
Member of Regional District (RD)	
Regional Growth Strategy (RGS) in region	Yes
Population	375,823

Table of Contents

- Community Wide Actions for 20122
 - 1.1 Measure2
 - Community Wide Measurement Actions.....2
 - 1.2 Plan.....2
 - Community Wide Targets2
 - 1.3 Reduce.....2
 - Supportive Community Wide Actions.....2
 - Direct Community Wide Actions.....5
- Corporate Actions for 20129
 - 2.1 Measure9
 - Corporate Measurement Actions9
 - 2.2 Reduce.....9
 - Supportive Corporate Actions.....9
 - Direct Corporate Actions11
 - 2.3 Corporate Innovation13
- Carbon Neutral Progress Reporting14
 - 3.1 Carbon Neutral Progress Reporting14
 - 3.2 Making Progress on Your Carbon Neutral Commitment.....14
 - 3.3 Offset Provider Information16

Community Wide Actions for 2013

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	As a part of the Regional Sustainability Strategy (RSS) planning process, in 2014 CRD will use the GHGProof model to supplement CEEI information and forecast future scenarios.

1.2 Plan

Community Wide Targets

Question	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.
Answer	In Progress
Additional Information	"The CRD is currently updating the 2003 Regional Growth Strategy (RGS) and transitioning this to a Regional Sustainability Strategy (RSS). Both GHG mitigation and climate adaptation policies will be integrated into the new RSS."

1.3 Reduce

Supportive Community Wide Actions

Action Type	Broad Planning
Actions Taken this Year	"Developed DRAFT Regional Sustainability Strategy. Drafted 10 year Climate Action Blueprint and Regional Food System Sub-Strategy as a part of the Regional Sustainability Strategy process. Developed a Salt Spring Island Pedestrian and Cycling Master Plan.

	<p>Drafted and received final board comments on the Regional Transportation Plan (RTP). The RTP will guide transportation planning and development in the capital region for the next 25 years, and identifies a desired multi-modal transportation network.</p> <p>Initiated sea level rise mapping and risk assessment project for capital region.</p> <p>Supported study to review and assess true vehicle demand needs associated with multi-unit residential buildings.</p> <p>Supported study with UVic students to assess sea level rise risk for Harbour businesses."</p>
Proposed Actions for Next Year	<p>"Continue to develop the RSS on 5 interwoven themes: Growing Smarter, Infrastructure and Energy, Economic Vitality, Natural Environment and Resources, Community Wellbeing.</p> <p>Integrate climate action goals, policy and actions into each of the RSS themes.</p> <p>Adopt the Regional Transportation Plan (RTP). "</p>

Action Type Building and Lighting	
Actions Taken this Year	Hosted 1-day building inspector workshop to educate about permitting solar hot water.
Proposed Actions for Next Year	Support energy efficiency regulation for new construction (enhanced BC Building Code standards).

Action Type Energy Generation	
Actions Taken this Year	N/A
Proposed Actions for Next Year	N/A

Action Type Green Space	
Actions Taken this Year	<p>"Created a developer's guide to protecting watersheds.</p> <p>Began development on a regional rainwater harvesting guidebook.</p> <p>Completed local government toolkit for watershed protection through regulatory and non-</p>

	regulatory mechanisms.
	Expanded urban forest stewardship initiative data collection."
Proposed Actions for Next Year	"Continue watershed protection through regulatory and non-regulatory mechanisms. Make urban forest stewardship initiative data available for watershed planning and land use decision making."

Action Type	Transportation
Actions Taken this Year	"Drafted the Regional Transportation Plan (RTP). See above. Developed and approved Pedestrian and Cycling Master Plan: Saltspring Island Edition (PCMP:SSI Edition)."
Proposed Actions for Next Year	"Implement the Pedestrian and Cycling Master Plan. Expand bicycle counts."

Action Type	Waste
Actions Taken this Year	"Developed and introduced financial incentive to foster diversion of kitchen and institutional/commercial/industrial sector organic materials from landfill. Hosted a water balance workshop for municipal practitioners."
Proposed Actions for Next Year	"Implement a strategy to reduce in house printing within regional parks. Operate a kitchen scraps transfer station at Hartland landfill for residential organic waste and prepare a supporting bylaw amendment."

Action Type	Water/Sewer
Actions Taken this Year	Drafted rain water harvesting guidelines.
Proposed Actions for Next Year	"Host rain water harvesting workshops. Produce watershed educational videos with climate change messaging.

Develop coordinated design storms for the region that incorporate precipitation estimates for future climate predictions."

Action Type	Other Actions
Actions Taken this Year	Began development on a food system sub-strategy, under the RSS Process. This strategy will address agricultural land trusts, drainage, right to farm language, and long-term economic strategies for storage, processing and distribution of food.
Proposed Actions for Next Year	N/A

Direct Community Wide Actions

Action Type	Buildings
Actions Taken this Year	"Implemented Live Smart: Small Business program to target walk-through energy assessments for over 100 businesses. Implemented the Multi-Unit Residential Building retrofit program ""Tap by Tap"" which resulted in energy and water savings retrofits in over 3000 units across the region."
Proposed Actions for Next Year	"Continue to implement the LiveSmart Small Business program. Work to expand the Tap by Tap program into 2014-2015."

Action Type	Energy Generation
Actions Taken this Year	"Initiated planning for Solar CRD program which will provide financial incentives for the adoption of solar hot water systems throughout the region. Monitored green roof heat gain reductions at CRD office building."
Proposed Actions for Next Year	Implement the Solar CRD program.

Action Type	Transportation
-------------	----------------

Actions Taken this Year	Completed 1.6 km of the E&N cycling and pedestrian trail.
Proposed Actions for Next Year	<p>"Create an additional 2km of E&N Rail cycling and pedestrian trail.</p> <p>Implement the following transportation related programs as part of the Pedestrian and Cycling Master Plan:</p> <ul style="list-style-type: none"> - Cruise with Courtesy Campaign - Ride On Cycling Skills Courses - Education and Training: transportation newsletter, workshops, practitioners' network - Innovative Infrastructure funding - Special Event funding - Cyclist Preference Survey study - Economics of Active Transportation study - Bicycle Riders' Map - TDM Toolkits <p>- Regional Way Finding plan & pilot implementation."</p>

Action Type	Waste
Actions Taken this Year	<p>"Continued to expand landfill gas collection program and add new infrastructure towards achieving 75% capture rate by 2016.</p> <p>Developed digital versions of cross-connection forms, which will save more than 25,000 sheets of paper annually.</p> <p>Increased waste diversion from Hartland landfill to 52%.</p> <p>Implemented an illegal dumping awareness strategy throughout the regional parks."</p>
Proposed Actions for Next Year	<p>"Continue to expand landfill gas collection program and add new infrastructure towards achieving 75% capture rate by 2016.</p> <p>Work to increase waste diversion from Hartland landfill above 2013 rates."</p>

Action Type	Water/Sewer
Actions Taken this Year	<p>"Installed water fountains on Galloping Goose Regional Trail to reduce use of bottled water.</p> <p>Contributed to the update of the Master Municipal Construction Document guidelines, with a particular focus on green infrastructure and LID practices.</p>

	<p>Implemented hydrological monitoring stations in 4 urban creeks to monitor hydrological trends and changes associated with climate impacts.</p> <p>Provided business water audit program to 5 businesses within the region.</p> <p>Provided workshops for 5 neighbouring regional districts on watershed health monitoring with a focus on climate adaptation."</p>
<p>Proposed Actions for Next Year</p>	<p>"Provide business water audit program to 6 businesses within the region.</p> <p>Develop coordinated design storm projections for the region that incorporate precipitation estimates from future climate impacts."</p>

Action Type	Green Space
<p>Actions Taken this Year</p>	<p>"Targeted invasive species removal and planting of native species.</p> <p>Planted trees for watershed restoration."</p>
<p>Proposed Actions for Next Year</p>	<p>Continue to target invasive species removal and planting of native species.</p>

Action Type	Other Actions
<p>Actions Taken this Year</p>	<p>"Developed and implemented My Green Plan Contest with local high schools.</p> <p>Sponsored BCSEA to develop and implement the Climate Change Showdown program in 24 classrooms across the region.</p> <p>Implemented Climate Action To-Go Kit program in partnership with local libraries.</p> <p>Developed Watershed Curriculum Education program with Oak Bay High School.</p> <p>Hosted community workshops on native plant gardening, waste diversion, rain barrels and rain gardens.</p> <p>Sponsored various community environmental events and undertook coordinated outreach and citizen engagement on environmental stewardship practices.</p> <p>Launched and piloted the Green 365 Campaign, which teaches residents how to be more green within their daily actions.</p>

	<p>Supported the development of the pilot phase of the Vancouver Island Green Business Certification Program.</p> <p>Published 24 climate action e-newsletters.</p> <p>Hosted monthly resilient region breakfast series, which attracts, on average, over 100 participants."</p>
<p>Proposed Actions for Next Year</p>	<p>"Complete the pilot and review of the Green 365 Program, which promotes and teaches green behaviours to residents across the region.</p> <p>Work with local high schools to implement the results of their My Green High School Plan Contest.</p> <p>Sponsor various community environmental events and undertake coordinated outreach and citizen engagement on environmental stewardship practices.</p> <p>Publish 24 climate action e-newsletters.</p> <p>Host quarterly resilient region breakfast series."</p>

<p>Question</p>	<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>
<p>Answer</p>	<p>"The CRD developed Tap by Tap program, a partnership between CRD, BC Hydro and Fortis which provides free water & energy savings fixtures, including showerheads, kitchen faucet aerators, and bathroom faucet aerators for eligible Multi-Unit Residential Buildings (MURBs) in the capital region. The program installed 3,171 showerheads, 1,348 bathroom aerators and 1,370 kitchen aerators within MURBs throughout the region, resulting in the following estimated savings:</p> <p>Water Savings (L)- 43,767,052 Energy Savings - Electric (kWh)- 548,085 Energy Savings - Gas (GJ) 5029 GHG Savings - (tonnes CO2e) 265.1"</p>

Corporate Actions for 2013

2.1 Measure

Corporate Measurement Actions

Question	What steps has your local government taken toward completing its corporate emissions inventory?
Answer	Completed 2009, 2010, 2011, 2012 and 2013 inventories according to provincial scope and methodologies.

Question	What tool are you using to measure, track and report on your corporate emissions?
Answer	SMARTool

2.2 Reduce

Supportive Corporate Actions

Action Type	Broad Planning
Actions Taken this Year	Completed the 2013 GHG inventory for corporate emissions.
Proposed Actions for Next Year	Monitor and report out on corporate GHG emissions in 2014.

Action Type	Building and Lighting
Actions Taken this Year	Continued to make use of automatic lighting system in CRD Headquarters.
Proposed Actions for Next Year	"Implement a LED pilot study for indoor tennis court facility and parking lots at Peninsula Recreation Centre. Implement BC Hydro Energy Audit recommendations at Peninsula Recreation Centre."

Action Type	Energy Generation
Actions Taken this Year	Purchased assets from Maxim Power Corporation for a 1.6 MW generator, sited at Hartland landfill.
Proposed Actions for Next Year	"Install 4 additional horizontal gas collection wells at Hartland landfill. Complete RFP to convert Ice Plant from an R-22 Refrigerant to maximize heat recovery at Peninsula Rec, with a plan to install new Ice Plant in 2015."

Action Type	Transportation
Actions Taken this Year	"Sponsored and participated in 2013 Bike to Work Week. Continued to introduce virtual meetings within a number of divisions to reduce travel for municipal staff. Reduced vehicle and fleet size, where appropriate and feasible across a number of divisions. Local vendors and contracted services used wherever feasible to reduce transportation."
Proposed Actions for Next Year	Participate and sponsor 2014 Bike to Work Week.

Action Type	Water/Sewer
Actions Taken this Year	N/A
Proposed Actions for Next Year	N/A

Action Type	Other Actions
Actions Taken this Year	N/A
Proposed Actions for Next Year	N/A

Direct Corporate Actions

Action Type	Building and Lighting
Actions Taken this Year	"Finished BC Hydro Energy Study at Peninsula Recreation Centre.
	Reduced energy and water usage in the new Juan de Fuca Administration Building, which incorporated rain water collection, recycled grey water and solar hot water heat.
	Undertook building weatherization for IWS Headquarters.
	Undertook energy efficiency improvements to SEAPARC and Panorama Recreation Centres as a result of building 2012 audits.
	Upgraded windows, exterior doors, attic insulation and ventilation system to 2 CRHC Multi-Unit Residential Buildings.
	Installed new motion light sensors in low-use areas of IWS Headquarters.
	Upgraded to new air-conditioning units and solar filming of south facing windows to reduce electrical demand in CRD Animal Pound.
Proposed Actions for Next Year	Completed exterior lighting upgrades to LED and replacement of outdated rooftop HVAC equipment with two high efficiency heat pump units at Victoria Health Unit."
	"Continue to monitor solar water consumption and recycled water at the JDF Administration Building. Implement water audit recommendations at Peninsula Recreation Centre. "

Action Type	Energy Generation
Actions Taken this Year	"Purchased assets from Maxim Power Corporation for a 1.6 MW generator, sited at Hartland landfill.
	Added 5 horizontal gas collection wells at Hartland landfill, to increase landfill gas capture rate.
	Maximized the use of the District Energy System reducing natural gas consumption at Peninsula Recreation Centre."
Proposed Actions for Next Year	"Install 4 additional horizontal gas collection wells at Hartland landfill.
	Complete RFP to convert Ice Plant from an R-22 Refrigerant to maximize heat recovery at

Peninsula Recreation Centre, with a plan to install new Ice Plant in 2015."

Action Type	Fleet
Actions Taken this Year	Purchased 5 higher efficiency vehicles to replace older models.
Proposed Actions for Next Year	<p>"Continue to phase out inefficient fleet vehicle and purchase new fuel efficient model vehicles within the regional parks fleet.</p> <p>Utilize teleconference technology when possible and appropriate.</p> <p>Coordinate group travel to staff meetings within regional parks offices.</p> <p>Continue to promote and support the use of public transportation to attend off-site meetings."</p>

Action Type	Waste
Actions Taken this Year	<p>"Added recycling stations in staff buildings and operate summer camps with zero waste through Peninsula Recreation Centre.</p> <p>Recycled all stale fuel, oil, tires and batteries.</p> <p>Distributed the Regional Parks Annual Report electronically which resulted in paper savings."</p>
Proposed Actions for Next Year	Continue to recycle all stale fuel, oil, tires and batteries.

Action Type	Water/Sewer
Actions Taken this Year	<p>"Began water use audit at Peninsula Recreation Centre.</p> <p>Closed flush toilets at Hartland, Hasterly and Beaver Beach during off season to save water.</p> <p>Located historical hydrometric stations for flow-level monitoring trends in 4 creeks."</p>
Proposed Actions for Next Year	<p>"Continue staff education on water, sewer, and electrical reductions.</p> <p>Continue to close flush toilets at Hartland, Hasterly and Beaver Beach during off season.</p>

Install 4 additional horizontal gas collection wells at Hartland landfill.

Launch a storm water bylaw.

Implement water audit recommendations at Peninsula Recreation Centre."

Action Type	Green Space
Actions Taken this Year	Maintain green roof at CRD Headquarters Building.
Proposed Actions for Next Year	Continue to maintain green roof at CRD Headquarters Building.

Action Type	Other Actions
Actions Taken this Year	N/A
Proposed Actions for Next Year	N/A

2.3 Corporate Innovation

Question	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.
Answer	In 2013 CRD implemented an organic waste diversion program that provides financial incentives to private haulers to collect organic material from throughout the region and divert it from the landfill.

Carbon Neutral Progress Reporting

3.1 Carbon Neutral Progress Reporting

Emissions/Offsets	Tonnes CO2e
Annual corporate emissions using SMARTTool or equivalent inventory tool	3682
<i>Emissions from services delivered directly by the local government</i>	2871
<i>Emissions from contracted services</i>	811
Less: GHG reductions being claimed for this reporting year from Option 1 - GHG reduction project	0
<i>Energy Efficient Building Retrofits and Fuel Switching</i>	
<i>Solar Thermal</i>	
<i>Household Organic Waste Composting</i>	
<i>Low Emissions Vehicles</i>	
Less: GHG reductions being claimed for this reporting year from Option 2 - GHG reduction projects	3682
<i>Option 2 Project A CRD Landfill Gas Emissions Reduction Project</i>	3682
<i>Option 2 Project B</i>	
<i>Sum of Other Option 2 Projects (if you have added projects below)</i>	0
Less: <i>Offsets purchased for this reporting year (Option 3). Please identify your offset provider in the offset provider information section below.</i>	
Balance of corporate emissions for this reporting year. <i>(If the corporate emissions balance is zero, your local government is carbon neutral for this reporting year)</i>	0
Additional "Option 2" Projects	
<i>Option 2 Project C</i>	
<i>Option 2 Project D</i>	
<i>Option 2 Project E</i>	
<i>Option 2 Project F</i>	
<i>Option 2 Project G</i>	
<i>Option 2 Project H</i>	

3.2 Making Progress on Your Carbon Neutral Commitment

Question	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.
Answer	

3.3 Offset Provider Information

Question Please Identify the name(s) of your offset provider(s) (Please answer below):

Answer

Question The offsets being claimed in this CARIP Report were purchased from the offset provider(s) indicated above prior to making this CARIP report public (please indicate yes or no):

Answer

Question 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.

Answer