

CLIMATE ACTION REVENUE INCENTIVE PROGRAM (CARIP) PUBLIC REPORT

For Reporting Year =

2012

GENERAL INFORMATION

Fill in the boxes below

Name of Local Government

Member of Regional District (RD)

Regional Growth Strategy (RGS) in region

Population

Capital Regional District

Yes

368,000

Report Submitted by

Name

Title

Email

Phone

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Manager*

Capital Regional District

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For Reporting Year = **2012**

Community-Wide Actions

1.1 MEASURE

Community Wide Measurement Actions QUESTION

ANSWER

ADDITIONAL INFORMATION

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?

Yes

In 2013 the CRD will use the GHGProof model as a part of the Regional Sustainability Strategy Process to supplement CEEI information and forecast future scenarios.

1.2 PLAN

Community Wide Targets QUESTION

ANSWER

ADDITIONAL INFORMATION

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.

If you are a Regional District, does your RGS 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.

In Progress

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 every chapter of the new RSS.

1.3 REDUCE

Supportive Community-Wide Actions

Please describe the supportive community-wide actions you have taken in 2012 (or propose to take in 2013) to contribute to reducing GHG emissions and energy consumption in your community.

Supportive actions refer to activities that provide a framework or foundation for direct actions to be implemented. These include the development of committees or new staff positions, education and engagement, feasibility studies, policy development and engagement with programs and partnerships.

If your actions do not fit into the given categories please describe them under "other actions".

<http://www.cscd.gov.bc.ca/lgd/greencommunities/carip.htm>

Actions reported in these categories in 2010 and 2011 can be found here:

Supportive Community-Wide Actions	Actions Taken in 2012	Proposed Actions for 2013
Broad Planning (e.g. creation/revision of OCPs, CEPs, transportation plans)	<i>*Regional Parks Strategic Plan Adopted; *Regional Sustainability Strategy initiated; *Regional Transportation Plan initiated; *Electric vehicle infrastructure strategy completed; *Adoption of Landfill Gas Management Plan; *Created a Developer's Guide to Protecting Watersheds document; *Undertook regional downscaled climate projections modelling with PCIC for the capital region;</i>	<i>*Develop DRAFT Regional Sustainability Strategy and undertake substantial public engagement; *Draft 10 year Climate Action Blueprint and Regional Food System Sub-Strategy as a part of the Regional Sustainability Strategy process; * Develop a Salt Spring Island Pedestrian and Cycling Master Plan; *Undertake sea level rise mapping and risk assessment project for capital region; *Support study to review and assess true vehicle demand needs associated with multi-unit residential buildings.</i>
Building and Lighting (e.g. developed green building policy, increased density in the downtown)	<i>*Provided input into Pay as You Save Utility Financing Programs by the Province of BC; *Partner in delivering LiveSmart: Small Business Program to more than 100 businesses in region;</i>	<i>*Continuation of LiveSmart: Small Business Program to target walk-through energy assessments for 100 more businesses;</i>
Energy Generation (e.g. signed on to provincial 'solar ready' regulation, explored options for bioheating for buildings)		

Green Space (e.g. developed urban forestry policy, adopted park acquisition policy)

**Enforce bylaws prohibiting 4x4 vehicles in Regional Parks to reduce ecosystem damage; *Enhanced and targeted invasive species removals at priority parks sites throughout region; *Initiated Youth in Parks Program*

**Develop discussion paper on "Nature Needs Half" concept for green space acquisition and management in the region; *Develop a regional rainwater harvesting guidebook; *Develop local government toolkit for watershed protection through regulatory and non-regulatory mechanisms; *Expand urban forest stewardship initiative data collection*

Transportation (e.g. developed sustainable transportation plan, completed bicycle master plan)

** Assisted Victoria Car Share Coop with mapping population density to assess new markets; * Continued and expanded regional bicycle and pedestrian counts; *Introduced virtual meetings a number of different divisions to reduce travel for municipal staff;*

Waste (e.g. introduced composting and recycling education programs)

**Regional Kitchen Scraps Diversion Program Approved;*

**Introduce financial incentive for kitchen scrap diversion;*

Water/Sewer (e.g. participated in water smart initiatives, implemented Water Action Plan, introduced rebates on low flush toilets)

**Contributed to the update of the Master Municipal Construction Document Guidelines with particular focus on green infrastructure and LID practices. *Implemented hydrological monitoring stations in 4 urban creeks to monitor hydrological trends and changes associated with climate impacts; *Provided technical support for installation of flow monitoring of new LID features at major mall development in City of Victoria.*

**Develop coordinated design storms for the region that incorporate precipitation estimates for future climate projections;*

Other Actions

**Implemented Climate Action To-Go Kit program in partnership with local libraries;
Sponsored 2012 Off the Grid Youth Climate Action Summit;

**Develop watershed curriculum education program with Oak Bay High school; *Host community workshops on native plant gardening, waste diversion, rainbarrels and raingardens; *Sponsor various community environmental events & undertake coordinated outreach and citizen engagement on environmental stewardship practices;*

Direct Community-Wide Actions

Please describe the **direct community-wide actions** you have taken this year and propose to take next year to contribute to reducing GHG emissions and energy consumption in your community.

Direct actions refer to activities that can be directly implemented by local government.

If your actions do not fit into the given categories please describe them under "other actions".

Actions reported in these categories in 2010 and 2011 can be found here: <http://www.cscd.gov.bc.ca/lgd/greencommunities/carip.htm>

Community-Wide Direct Actions

Actions Taken in 2012

Proposed Actions for 2013

Buildings (e.g. implement use of sustainability checklists and development permit guidelines for new buildings)

**Implement Tap by Tap program to target energy/water retrofits in 3,000 units of multi-unit residential building in region;*

Energy Generation (e.g. implement district energy, geothermal, solar)

Undertook business case and feasibility assessment of 4 district energy heat recovery centres in the region

Seek funding for implementation of 1 heat recovery district energy centre;

Transportation (e.g. implement bike lanes, pedestrian paths, upgrade transit service and infrastructure, improve roads, parking fees etc.)

**Construction of E&N Rail Trail for cycling and walking;*

Completion of E&N Rail Trail; Implement 12 key projects from the Pedestrian Cycling Master Plan;

Waste (e.g. introduce composting and recycling programs)

Water/Sewer (e.g. implement water conservation and reduction initiatives)

** Increased landfill gas collection infrastructure to collect 48.5% of methane from Hartland Landfill; *Hosted water balance workshop model for municipal practioners; *Provide business water audit program; *Implemented Tap into Sustainability campaign offering 10,000 water bottles to citizens and promoting potable drinking water;*

**Continue to expand landfill gas collection program and add new infrastructure towards achieving 75% capture rate by 2016;*

Green Space (e.g. plant trees, conserve forest etc.)

**Planted 20,000 new tree seedlings in the CRD water supply area; * Installed new cedar split fencing instead of metal fencing in watershed areas; *Acquired 41 hectares of green space at Jordan River; *Planted 75 new trees on Phase 1 of the Hartland Landfill; *Planted 500 new trees and shrubs at restoration sites as a part of the Bowker Creek Initiative. *Undertook 3 major ecosystem restoration activites including invasive species removal and native plant enhancement*

**Installing long term study plots in drinking watershed to monitor and assess climate change impacts on forests and ecosystems; *Establish a coordinated watershed management initiative in Hobbs Creek; *Undertake eelgrass monitoring in five regional harbours;*

Other Actions

**Participated in King Tide Photo Contest Initiative; *Sponsored Climate Smart Business Training program for 60 organizations in the capital region; *Implemented Growing Solutions Program & Educational Campaign on food and climate change;*

**Implement 2013 Ready, Set, Solve Program for 18 organizations in the capital region; *Sponsor Climate Change Showdown program in 26 local elementary schools; *Implement new K-12 Environmental Education Program*

1.4 COMMUNITY-WIDE INNOVATION

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

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Corporate Actions

2.1 MEASURE

Corporate Measurement Actions QUESTION

Answer

What steps has your local government taken toward completing its corporate emissions inventory (e.g. corporate assets identified related to energy and fuel data and calculated GHG emissions from energy use)?

Completed 2009, 2010, 2011 and 2012 inventories according to provincial scope and methodologies

What tool are you using to measure, track and report on your corporate emissions (e.g. SMARTtool, other tools including excel spreadsheets)?

SMARTtool

2.2 REDUCE

Supportive Corporate Actions

Please describe the **supportive corporate actions** you have taken in 2012 or propose to take in 2013 to contribute to reducing GHG emissions and energy consumption within your corporate boundary.

Supportive actions refer to activities that provide a framework or foundation for direct actions to be implemented. These include the development of committees or new staff positions, education and engagement, feasibility studies, policy development and engagement with programs and partnerships.

If your actions do not fit into the categories provided, please describe them under "other actions".

Lists of actions reported in these categories in 2010 and 2011 can be found here: <http://www.cscd.gov.bc.ca/igd/greencommunities/carip.htm>

Supportive Corporate Actions

Actions Taken in 2012

Proposed Actions for 2013

Broad Planning (e.g. developed corporate climate action plan)

**Undertook business case analysis on development of ecosystem offsets in parks and watershed lands.*

Building and Lighting (e.g. developed energy reduction plan for all corporate buildings)

**Undertook energy audit and feasibility study of SEAParc Recreation Centre and Panorama Recreation Centre; *Completed air leakage inspection study for Water Offices, CRD Headquarters and Parks Headquarters buildings*

Energy Generation (e.g. undertook feasibility study of green energy generation for civic buildings)

**Develop funding proposals to implement one of four potential new district energy heat recovery system;*

Transportation (e.g. created anti-idling policy for city vehicles, bike to work week promotion)

**Bike to Work Week participation and sponsorship*

**Bike to Work Week participation and sponsorship*

Waste (e.g. completed waste audit of City Hall)

Water/Sewer (e.g. completed study of sewer and water energy use)

* Monitored flow and rainwater retention associated with corporate green roof and living wall *Undertook water audit of Panorama Recreation Centre;

*Clover and Macaulay Point Water Reclamation Project will be completed in 2013 and will save significant water

Other Actions

Direct Corporate Actions

Please describe the **direct corporate actions** you have taken in 2012 and propose to take in 2013 to contribute to reducing GHG emissions and energy consumption within your corporate boundary.

Direct actions refer to activities that can be directly implemented by local governments.

We encourage you to report all the corporate actions that contribute to reduced emissions even if they might not directly contribute to the achievement of your carbon neutral commitment. For example, the introduction of corporate recycling programs do not contribute to carbon neutrality but is a direct action to reduce GHG emissions.

If your actions do not fit into the given categories please describe them under "other actions".

<http://www.cscd.gov.bc.ca/lgd/greencommunities/carip.htm>

List of actions reported in these categories in 2010 and 2011 can be found here:

Direct Corporate Actions

Actions Taken in 2012

Proposed Actions for 2013

Building and Lighting (e.g. energy efficiency retrofits to municipal buildings)

**Implemented closed loop for cooling and refrigeration compressor at SEAPARC Recreation Centre; *Removed electricity and power to surplus buildings at Jordan River Regional Parks to reduce energy consumption in un-used facilities; *Constructed and opened new LEED Gold library facility on Salt Spring Island; *Renovated Field Operations Centre dry room to improve energy efficiency; *18 unit townhouse complex constructed by CRHC designed to LEED Platinum standards *lighting retrofit undertaken in 11 multi-unit residential buildings under CRHC portfolio in partnership with BC Housing and BC Hydro *Installed more efficient heating systems and individual temperature controls in Esquimalt Health Unit; *Upgraded HVAC and temperature controls in the IT data centre at Headquarters, including new heat recovery for building and decreasing cooling requirement; * Upgraded Exterior lights to LED in the USTAT Mental Health Unit.*

Energy Generation (e.g. implemented heat recovery systems, solar)

** Undertake building weatherization for IWS headquarters; *Undertake energy efficiency improvements to SEAPARC and Panorama Recreation Centres as a result of building 2012 audits * Upgrade of windows, exterior doors, attic insulation and ventilation system to 2 CRHC Multi-Unit Residential Buildings; * Upgrade to new air-conditioning units and solar filming of south facing windows to reduce electrical demand in CRD Animal Pound; * Exterior lighting upgrades to LED and replacement of outdated rooftop HVAC equipment with two high efficiency heat pump units at Victoria Health Unit.*

**Install new motion light sensors in low-use areas of IWS headquarters; * Undertake lighting upgrades at the Currie Road pump station; *Implement Juan De Fuca water distribution pumpstation upgrades to improve efficiency for heating, lighting and ventilation;*

Fleet (e.g. anti-idling policies for fleet vehicles, purchasing of hybrid)

**Replaced 32 corporate vehicles with more efficient models to reduce annual GHG output by 10 tCO₂e; * Eliminated one heavy-duty vehicle from watershed management operations and down-sized vehicles used for inspections in Environmental Partnerships; *Transition to virtual meetings in Regional Planning Department; *Enhanced coordination of Parks Recreation staff meetings to reduce fleet vehicle travel. *Combined scientific sampling activities between stormwater and waste water groups to reduce number of long distance trips; *Undertook sector by sector approach to regulatory inspections to reduce corporate travel in Environmental Partnerships Division; *Human Resources Division increased the use and coordination of centralized field training programs to reduce corporate travel;*

**Proposed bikes (traditional and electric) for staff business use in Regional Planning & Environmental Partnerships Divisions;*

Waste (e.g. introduction of composting and recycling programs and education)

**Expanding office composting programs to include paper towels at CRD Parks Facilities; *Substantial progress in reducing the amount of printed reports in CRD Parks Operations including the transition of Warden Activity Reports to on-line function; *Paperless meetings in Environmental Partnerships Department;*

** Create Volunteer Manual for CRD Parks on USB stick rather than printing out hundreds of handbooks each year; *Develop digital versions of cross-connection forms to save more than 25,000 sheets of paper each year;*

Water/Sewer (e.g. initiated water conservation and reduction initiatives)

**Conducted environmental impact assessment of Craigflower pump station and incorporated a number LID techniques such as permeable paving and bioswales to reduce stormwater loads; *Eliminated the use of bottled water at Park's special events;*

**Installation of water saving devices at two Multi-Unit Residential Buildings under CRHC in partnership with BC Housing.*

<p>Green Space (e.g. planting of trees)</p>	<p><i>*Planned and created rainwater retention pond at Hartland Landfill to manage rainwater from recently remediated areas.; *Established food gardens at two CRHC housing sites in partnership with tenants and Lifecycles Project</i></p>	
<p>Other Actions</p>	<p><i>*Enhanced training and development on topics of climate change mitigation and adaptation throughout numerous CRD departments; *CRD Finance Department assisted with 2012 carbon tax calculations and data collection for GHG inventory</i></p>	<p><i>*2013 CARIP Reporting and GHG Inventory; *Implement a new 'green cleaning' methods for Janitorial maintenance at the Peninsula Health Unit.</i></p>
<p>2.3 CORPORATE INNOVATION</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>	

NOTE: If you wish to insert a "hard return" (i.e. Enter Key) while typing in a given cell, you need to hold the ALT+ENTER instead.
 NOTE: If your list proves larger than the space provided above, feel free to adjust the column width/row height accordingly.
 NOTE: To adjust cells go to the far left (numbers) or top (letters)

You **MUST** fill this in for the 2012 reporting year.

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Prior to completing this section, please ensure that you are familiar with the “Becoming Carbon Neutral guidebook” available on the BC

[BC Climate](#)

Carbon Neutral Progress Reporting

Is this your Final or Interim CARIP Report for 2012 (Yes or No)?

INTERIM

Emissions/Offsets	Tonnes CO2e	
	Enter Values in Yellow Boxes	
Annual corporate emissions using SMARTTool or equivalent inventory tool		(+)
<i>Emissions from services delivered directly by the local government</i>	2880	
<i>Emissions from contracted services</i>	777	
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

Please list all Option 2 Projects Implemented (insert title of the projects(s) as per project plan template. If you have more than two Option 2 projects you can add more lines at the bottom of this sheet)

Option 2 Project A

Option 2 Project B

Sum of Other Option 2 Projects (if you have added projects below)

0
0

(-)

Less:

Offsets purchased for this reporting year (Option 3). Please identify your offset provider in the offset provider information section below.

3657

(-)

Balance of corporate emissions for this reporting year.

(If the corporate emissions balance is zero, your local government is carbon neutral for this reporting year)

0

=

Making Progress on Your Carbon Neutral Commitment

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.

enter your response here...

Additional "Option 2" Projects

Option 2 Project C
Option 2 Project D
Option 2 Project E
Option 2 Project F
Option 2 Project G
Option 2 Project H

Offset Provider Information

(i) Please Identify the name(s) of your offset provider(s) (use yellow box to the right):

Offsetters

(ii-a) 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 in yellow box):

yes
