

Climate Action Revenue Incentive (CARIP) Final Public Report for 2012

Reported by

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General information

Name of local government: Comox Valley Regional District
 Regional Growth Strategy: Adopted March 29, 2011
 Projected population for 2011: 64,805

Community-Wide Actions

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

Have a staff position responsible for review of emissions inventory.

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

In Progress

ADDITIONAL INFORMATION

Community GHG will reflect RGS and Comox Valley Sustainability Strategy targets and will include actions dictated by both documents. With adoption of RGS, staff are working towards incorporating GHG OCP policies.

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.

Yes

Measurable GHG emission reduction target: Overarching Target: 80% reduction in GHG emissions below 2007 levels by 2050, interim targets of 33% by 2020, 50% by 2030, and 65% by 2040. RGS includes specific targets, for reducing GHG emissions associated with solid waste, buildings and on-road transportation by 50% below 2007 levels by 2030; Additional policy targets for 2030 from RGS: 90% of new development within core settlement area, 2.5% mode share for transit, 20% bike/walk commuting, 75% solid waste diversion by 2030.

1.3 REDUCE

Supportive Community-Wide Actions

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.

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

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

Supportive Community-Wide Actions

Actions Taken in 2012

Proposed Actions for 2013

Broad Planning (e.g. creation/revision of OCPs, CEPs, transportation plans)

Commenced with implementing the adopted RGS, which includes numerous targets/policies related to GHG reductions.

Update OCP to include GHG targets/policies, revised policies for the agriculture and aquaculture sectors (which includes methods of lowering GHG emissions by supporting locally produced food and "buy local" campaigns and water saving measures) and a revised Mt. Washington integrated resort community plan (IRCP) (which includes policies and development permits that encourages reduced GHG emissions).

Building and Lighting (e.g. developed green building policy, increased density in the downtown)

Established electoral area green building program. The CVRD green building working group hosted three public education sessions and updated the green building page on the CVRD website providing educational material and related rebate programs.

Continue with the established electoral area green building program by providing rebates and education. Continue implementation of water efficiency plan.

Energy Generation (e.g. signed on to provincial 'solar ready' regulation, explored options for bioheating for buildings)

Installed renewable energy demonstration projects at numerous electoral area sites.

Continue installations of renewable energy systems and associated educational opportunities. At green building education sessions, show case examples of privately installed renewable energy systems

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

On-going improvements and maintenance of the regional parks system. Acquired new parkland in strategic area identified in the Rural Comox Valley Parks and Greenways Strategic Plan 2011-2030.

On-going improvement and maintenance of the regional parks system. Acquire more property in line with the greenways/parks strategy. Plan and construct greenways along Hawkins and Brazier Roads to provide improved access to Goose Spit park. On Denman Island construct greenway along Denman Road right of way. Plan for second phase of Denman Island cross island trail.

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

Participated in the Comox Valley Cycling Task Force. Increased transit promotion through installation of bus shelters and cycling signage in electoral areas. Raised awareness of the local car-pooling site. Undertook transit service review.

Provide public education on sustainable transit and alternative transportation options. Undertake transit master plan. Continue participation with Comox Valley Cycling Task Force.

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

On-going waste reduction activities and education, investigating increased diversion and resource recovery options. Adopted the solid waste management plan. Adopted improved legal dumping initiatives.

Continue waste reduction activities and education. Implement the adopted waste management plan. Include implementation of service wide (CVRD and SRD) composting programs. Adopt illegal dumping bylaw. Implement illegal dumping education program. Complete design of two land fill closures to reduce GHG emissions by 75%, plus minus 2000 tonnes of methane (CH4) per year.

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

Participated in Convening for Action on Vancouver Island. Water efficiency plan implementation. Introduced mock billing for newly metered regional district electoral area customers.

Continue implementation of water efficiency plan and mock billing. Participate in Convening for Action on Vancouver Island. Participated in (British Columbia Water and Waste Association (BCWWA) Drinking Water Week.

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) | <i>Introduced home energy incentive programs. Developed a draft developer sustainability checklist. Created development permit areas with guidelines for water saving measures and reducing GHG emissions for Mt. Washington integrated resort community plan (IRCP).</i> | <i>Continue to implement electoral area green building program including rebates and education. Adopt and implement the developer sustainability checklist and the development permit areas for Mt. Washington integrated resort community plan (IRCP) to save water and reduce GHG emissions.</i> |
| Energy Generation (e.g. implement district energy, geothermal, solar) | <i>Implemented home energy incentive program and installed energy demonstration projects.</i> | <i>Continue home energy incentive program and additional energy demonstration projects.</i> |
| Transportation (e.g. implement bike lanes, pedestrian paths, upgrade transit service and infrastructure, improve roads, parking fees etc.) | <i>Ongoing transit improvements and raising awareness of alternative transportation options. Added bus shelters and cycling signage in the electoral areas of the Comox Valley Regional District. Expanded the 1700 service hours of public transportation.</i> | <i>Ongoing transit improvements, including improving the awareness of alternative transportation options, such as the local car-pool site. Continue work with the Ministry of Transportation and Infrastructure on improved cycling amenities in electoral areas.</i> |
| Waste (e.g. introduce composting and recycling programs) | <i>Ongoing waste reduction activities and education. Planning how to collect and compost food waste. Improved backyard composting centres of the CVRD and SRD. Educate and distributed composters. Maintained 15 recycling collecting centres, contributing to a 52% waste diversion rate. Implemented dry-wall diversion program, which resulted in over 2,500 tonnes of dry-wall diverted from land fill.</i> | <i>Ongoing waste reduction activities and education. Implementing the food waste composting project.</i> |
| Water/Sewer (e.g. implement water conservation and reduction initiatives) | <i>Introduced mock billing for newly metered regional district electoral area customers, to provide opportunities to install water saving measures.</i> | <i>Mock billing for water use will continue to the end of November 2013. Continued implementing of water efficiency plan, including toilet rebates, outdoor irrigation rebates and system wide leak detection of community water use education.</i> |

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

Designed the extension of the Royston Greenway 'Greenshores' trail and planned the Denman Island Ferry-to-Ferry greenway and conducted public consultations for both projects. Planned the Hawkins Greenway recreational trail to facilitate pedestrian and cycle travel from the Town of Comox to Goose Spit park. Prepared parkland acquisition and parkland development cost charges bylaw to help fund priorities in the Rural Comox Valley Parks and Greenways Plan 2011-2030.

Implement the parkland acquisition and parkland development cost charges bylaw to help fund priorities in the Rural Comox Valley Parks and Greenways Plan 2011-2030. Construct the following three trails planned in the previous year: the Royston Greenway 'Greenshores' trail, the Denman Island Ferry-to-Ferry greenway and the Hawkins Greenway recreational trail.

1.4 COMMUNITY-WIDE INNOVATION

Answer

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.

As part of implementing a regional water efficiency plan, the Comox Valley Regional District installed water meters to more than a thousand electoral area residents. The regional district then designed mock billing to indicate to these residents what they will be paying for water use if they had been billed. The mock billing provides an opportunity for newly metered regional district electoral area customers to implement water saving measures and reduce water use, before they need to pay for water used. More information is provided on the CVRD website, including a staff report, indicating the results of the mock billing:
http://www.comoxvalleyrd.ca/Agenda_minutes/CVRDCommittees/EASC/19-Nov-12/20121114_Oakman_SR_mock_billing_review.pdf

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)?

At the CVRD board meeting dated March 1, 2011, the board approved the CVRD corporate energy plan. The CVRD completed the energy/GHG inventory of 2011 GHG emissions.

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

An Excel based spreadsheet to collect and analyze energy/GHG data and to develop regular reports.

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/lgd/greencommunities/carip.htm>

Supportive Corporate Actions

Actions Taken in 2012

Proposed Actions for 2013

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

Completed energy/GHG inventory and undertook an integrated resource recovery (IRR) study.

Regular reporting of energy/GHG emissions.

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

Undertook an integrated resource recovery (IRR) study and numerous energy audits at key facilities. Evaluated solar hot water systems for heating pool water at sports and aquatic centres.

Planning and analysis for the development of a regional office facility with green building features.

| | | |
|-------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Energy Generation (e.g. undertook feasibility study of green energy generation for civic buildings)</p> | <p>Undertook integrated resource recovery (IRR) opportunities study. Evaluated wind and solar options at numerous sites, including recreation facilities.</p> | <p>Investigate other opportunities for integrated resource recovery (IRR) and renewable energy.</p> |
| <p>Transportation (e.g. created anti-idling policy for city vehicles, bike to work week promotion)</p> | <p>Promote bike to work week for staff. Amended fleet policy to address GHG reductions.</p> | <p>Continue to promote bike to work week. Implement fleet policy by expanding the corporate fleet with fuel efficient vehicles and ensuring other GHG reduction strategies of the revised fleet policy is met, such as anti-idling.</p> |
| <p>Waste(e.g. completed waste audit of City Hall)</p> | <p>Corporate energy inventory accounts for solid waste generation of civic facilities. Promoted diversion programs with employees.</p> | <p>Continue to promote diversion programs internally and in addition, promote kitchen organic compost project.</p> |
| <p>Water/Sewer (e.g. completed study of sewer and water energy use)</p> | <p>Promote water efficiency.</p> | <p>Continue to promote water efficiency.</p> |

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".

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 |
|------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Building and Lighting (e.g. energy efficiency retrofits to municipal buildings)</p> | <p>Updated computer systems to improve energy efficiency.</p> | <p>Based on energy audits, undertake feasible retrofits.</p> |
| <p>Energy Generation (e.g. implemented heat recovery systems, solar)</p> | <p>Installed solar power systems at the Oyster River fire hall and the Royston Water Service office.</p> | <p>Based on results of renewable energy studies undertake feasible projects and energy audits. Plan on installing solar power systems at the Fanny Bay Fire Hall and the Comox Valley water local service sites.</p> |

| | | |
|--------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| <p>Fleet (e.g. anti-idling policies for fleet vehicles, purchasing of hybrid)</p> | <p><i>Expanded the fleet with more fuel efficient vehicles with the purchase of one electric vehicle and one power assist electric bicycle.</i></p> | <p><i>Continue to optimize fleet composition for reduced GHG emissions. Undertake driver education program internally.</i></p> |
| <p>Waste (e.g. introduction of composting and recycling programs and education)</p> | <p><i>Improved waste collection bins for improved diversion at recreation facilities.</i></p> | <p><i>Formalize kitchen compost project. Reduce GHG emissions through efficiency of waste transfer diversion.</i></p> |
| <p>Water/Sewer (e.g. initiated water conservation and reduction initiatives)</p> | <p><i>Promoted water efficiency and installed dual flush toilets in regional district facilities.</i></p> | <p><i>Continue to promote water efficiency.</i></p> |
| <p>Green Space (e.g. planting of trees)</p> | <p><i>N.a.p. for regional district functions.</i></p> | |

Carbon Neutral Progress Reporting

Is this your Final or Interim CARIP Report for 2012 ?

FINAL

| Emissions/Offsets | Tonnes CO2e |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| Annual corporate emissions using SMARTTool or equivalent inventory tool | |
| <i>Emissions from services delivered directly by the local government</i> | 2,123 |
| <i>Emissions from contracted services</i> | 0 |
| Less: | |
| GHG reductions being claimed for this reporting year from Option 1 - GHG reduction project | |
| <i>Energy Efficient Building Retrofits and Fuel Switching</i> | 0 |
| <i>Solar Thermal</i> | 0 |
| <i>Household Organic Waste Composting</i> | 0 |
| <i>Low Emissions Vehicles</i> | 0 |
| Less: | |
| GHG reductions being claimed for this reporting year from Option 2 - GHG reduction projects | |
| <i>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)</i> | |
| <i>Option 2 Project A</i> | 0 |
| <i>Option 2 Project B</i> | 0 |
| <i>Sum of Other Option 2 Projects (if you have added projects below)</i> | |
| Less: | |
| Offsets purchased for this reporting year (Option 3). Please identify your offset provider in the offset provider information section below. | 2123 |
| 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 |

The CVRD achieved the Carbon Neutral Commitment for 2012

At the May 28, 2013 CVRD board meeting, the board approved the purchase of 2123 tonnes of carbon offsets from the Someshwara Small Hydropower Project to offset CVRD's corporate GHG emissions and achieve carbon neutrality. The project meets the Verified Carbon Standard. This purchase is now complete and was made between CVRD and the offset provider ERA Ecosystem Restoration Associates.

The Someshwara Small Hydropower Project includes the installation and operation of a 24.75 MW capacity run of river hydroelectric power plant. Project is located in southern India and displaces electricity from fossil fuel based generation (coal, diesel, gas etc). GHG reduction is estimated at 70,144 tonnes per year.