

Climate Action Revenue Incentive Plan (CARIP) Public Report

Climate Action Revenue Incentive (CARIP) Public Report for YEAR

*Village of Radium Hot Springs
Regional District of East Kootenay*

Reported by
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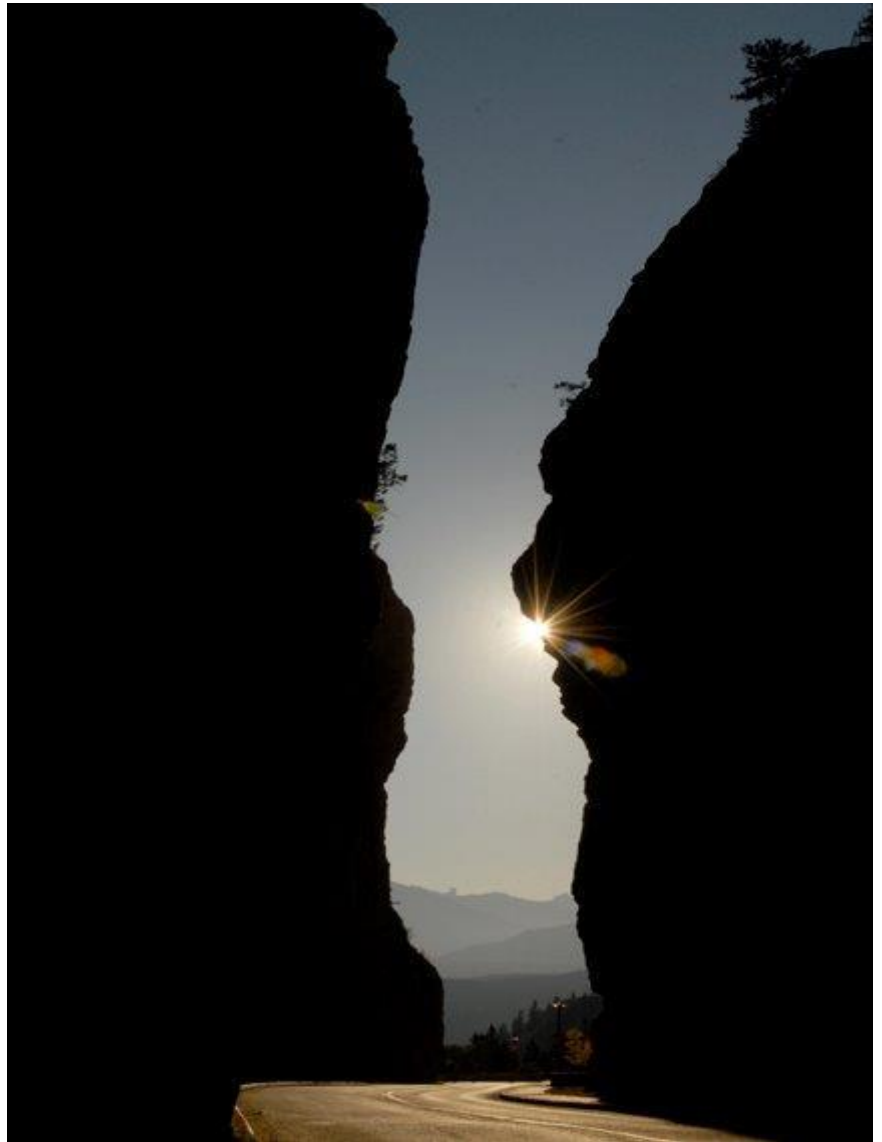


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General Information

Name of Local Government	<i>Village of Radium Hot Springs</i>
Member of Regional District (RD)	<i>Regional District of East Kootenay</i>
Regional Growth Strategy (RGS) in region	<i>No</i>
Population	<i>973</i>

Community-Wide Actions for 2012

1.1 Measure

Community-Wide Measurement Actions

Question	Have you been using the <i>Community Energy and Emissions Inventory</i> (CEEI) to measure progress? What else have you been using instead of/in addition to CEEI?
Answer	Yes
Additional Information	The <i>Community Energy and Emissions Inventory</i> report is used by comparing this report with the updated inventory reports generated through the tool provided by the <i>Carbon Neutral Kootenays</i> project.

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 <i>Local Governments Act</i> (LGA)? If yes, please identify the targets set. If no or in progress, please comment.
Answer	In Progress
Additional Information	Our Official Community Plan (OCP) which is in its final stage states that the Village of Radium Hot Springs will "Support the 'British Columbia Climate Action Charter' by developing strategies to become carbon neutral in respect of municipal operations, by measuring and reporting on our operational and community-wide Greenhouse Gas (GHG) emissions profile, and by creating a compact, energy efficient community".

1.3 Reduce

Supportive Community-Wide Actions

Action Type	Broad Planning (e.g. creation/revision of OCPs, CEPs, transportation plans)
Actions Taken this Year	The OCP has been reviewed numerous times and will be ready for the public process.
Proposed Actions for Next Year	To provide the OCP to the public, neighbouring communities, First Nations and other interested parties for comments. To have the OCP accepted as an official document.

Action Type	Building and Lighting (e.g. developed green building policy, increased density in the downtown)
Actions Taken this Year	- In the draft OCP is states that 'we encourage creative thinking about... green construction standards, conservation, and environmental preservation'.
Proposed Actions for Next Year	- To work with developers to move towards the green construction standards as stated in the OCP draft.

Action Type	Green Space (e.g. developed urban forestry policy, adopted park acquisition policy)
Actions Taken this Year	- Discussed with private land owners regarding designating areas of parkland. - Required the designation of parkland during new subdivision review.
Proposed Actions for Next Year	- To continue to protect and preserve environmentally sensitive areas using the OCP as the guideline. - Another organization will remove current playground equipment and will be reassembling it for continued use.

Action Type	Transportation (e.g. developed sustainable transportation plan, completed bicycle master plan)
Actions Taken this Year	- Included in the OCP draft is the requirement to 'maintain a pedestrian scale and connectivity'.
Proposed Actions for Next Year	- To continue to promote a compact footprint and pedestrian friendly small village.

Action Type	Waste (e.g. introduced composting and recycling education programs)
Actions Taken this Year	- Educated through advertising, door to door visits, and a call center the importance of proper composting. - Encourage households to compost organic materials.
Proposed Actions for Next Year	- Continue with the education process of best practices of waste disposal options. Through the education process we encourage behavioural changes to reduce waste in landfills and wildlife-human encounters.

Action Type	Water/Sewer (e.g. participated in water smart initiatives, implemented Water Action Plan, introduced rebates on low flush toilets)
Actions Taken this Year	- We have a 'Water Smart' plan with implementation to occur over a five year period. -Enforced existing water conservation policy.
Proposed Actions for Next Year	- Continue with the 'Water Smart' initiatives. - Continue with enforcing the water conservation policy.

Direct Community-Wide Actions

Action Type	Buildings (e.g. implement use of sustainability checklists and development permit guidelines for new buildings)
Actions Taken this Year	- Reviewed each development proposal to ensure all related aspects of the OCP were adhered to.
Proposed Actions for Next Year	- Continue with the processes of reviewing to ensure all related aspects of the OCP are adhered to.

Action Type	Energy Generation (e.g. implement district energy, geothermal, solar)
Actions Taken this Year	- Testing 'Solar Lights' in the boulevard for durability, brightness and longevity.
Proposed Actions for Next Year	- Assess the 'Solar Lights' results and compare to the costs of installing electrical access to the boulevards.

Action Type	Transportation (e.g. implement bike lanes, pedestrian paths, upgrade transit service and infrastructure, improve roads, parking fees etc.)
Actions Taken this Year	- Built phase one of a new park specifically for bicycles. - <i>Repairs to many main sidewalks for not only safety and aesthetic purposes but to encourage pedestrian activity.</i>
Proposed Actions for Next Year	- To build phase two of the new park specifically for bicycles. - <i>Continue to connect the community with additional sidewalks to create seamless pedestrian access to downtown.</i>

Action Type	Waste (e.g. introduce composting and recycling programs)
Actions Taken this Year	- Provide recycling centre for all community and visitors to use.
Proposed Actions for Next Year	- Continue to provide recycling centre for all community and visitors to use.

Action Type	Water/Sewer (e.g. implement water conservation and reduction initiatives)
Actions Taken this Year	- Continue with the education and enforcement of the Water Conservation program. - <i>Ensure that current 2012 Building Code standards are met which requires Low Flush toilets.</i>
Proposed Actions for Next Year	- Continue with the education and enforcement of the Water Conservation program. - <i>Ensure that any new Building Code standards are met.</i>

Action Type	Green Space (e.g. plant trees, conserve forest etc.)
Actions Taken this Year	- Applied for and received approval for enhancing playgrounds and exercise equipment within parks.
Proposed Actions for Next Year	- Hold a competition for design and installation of playground. Timeline is to have the new playground equipment in place for late Spring of 2013.

Corporate Actions for 2012

2.1 Measure

Corporate Measurement Actions

Question	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)?
Answer	The Village of Radium Hot Springs has identified its entire corporate emissions inventory. The Village staff have completed the inventory related to energy and fuel data, and calculations for GHG emissions for energy use since 2008.

Question	What tool are you using to measure, track and report on your corporate emissions (e.g. SMARTtool, other tools including excel spreadsheets)?
Answer	Since 2008, the staff of the Village of Radium Hot Springs identified items considered as a carbon emitter and tracked the consumption using an Excel spreadsheet. This information then was transferred to Excel tool created by the Carbon Neutral Kootenays which calculated the emissions. In 2012, the 2011 and 2012 information was transferred to the SMARTtool which will be the tool used going forward.

2.2 Reduce

Supportive Corporate Actions

Action Type	Broad Planning (e.g. developed corporate climate action plan)
Actions Taken this Year	A Carbon Neutral ACTION Plan (ACTION Plan) was completed in November of 2011. The staff implemented the targeted actions identified for 2012.

Proposed Actions for Next Year	Staff will continue to carry out the actions identified in the Carbon Neutral ACTION Plan.
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Action Type	Building and Lighting (e.g. developed energy reduction plan for all corporate buildings)
Actions Taken this Year	For buildings the ACTION Plan identifies several actions. In 2012 it was implemented that we optimize siting and orientation of new buildings; and that we require evaluation of renewable energy sources for new construction & major renovations.
Proposed Actions for Next Year	In 2013, the staff plans to continue to work the actions that are identified in the ACTION Plan.

Action Type	Energy Generation (e.g. undertook feasibility study of green energy generation for civic buildings)
Actions Taken this Year	During the renovation process of the Administration building, a comparison of various energy sources were reviewed prior to determining the final option.
Proposed Actions for Next Year	Any future renovations or construction will go through an energy review to determine the feasibility and benefits of energy generation.

Action Type	Transportation (e.g. created anti-idling policy for city vehicles, bike to work week promotion)
Actions Taken this Year	In 2012 staff worked on implementing GHG tracking requirements in the agreements with contracted services.
Proposed Actions for Next Year	The ACTION plan is to develop a vehicle purchasing policy.

Action Type	Waste (e.g. <i>completed waste audit of City Hall</i>)
Actions Taken this Year	Investigated various options for waste removal.
Proposed Actions for Next Year	Will continue to encouraging recycling and best waste removal practices.

Action Type	Water/Sewer (e.g. <i>completed study of sewer and water energy use</i>)
Actions Taken this Year	Spent over \$1.2 million dollars upgrading and improving the efficiency of our Sewer Treatment Plant.
Proposed Actions for Next Year	Will be completing a sustainability report for both our water and sewer systems. For water, a portion of the study will be to determine the options and validity of water meters within the community.

Direct Corporate Actions

Action Type	Building and Lighting (e.g. energy efficiency retrofits to municipal buildings)
Actions Taken this Year	Completed close to a \$600,000 Administration Building renovation where energy saving components were installed such as automatic light shut offs, increased insulation, and lower voltage lighting.
Proposed Actions for Next Year	Continue to incorporate energy management into the annual building maintenance procedures.

Action Type	Fleet (e.g. anti-idling policies for fleet vehicles, purchasing of hybrid)
Actions Taken this Year	Encouraged efficient use of both personal and company vehicles.
Proposed Actions for Next Year	Request to be included in the next opportunity for efficient vehicle use training.

Action Type	Waste (e.g. introduction of composting and recycling programs and education)
Actions Taken this Year	<ul style="list-style-type: none"> - Continued with the composting program of organic matter at the Municipal Office. - All potential office recyclable materials are collected and disposed of in the public recycling containers offered by the Municipality.
Proposed Actions for Next Year	Continue to compost organic matter and follow the philosophy of reduce, reuse or recycle.

Action Type	Water/Sewer (e.g. initiated water conservation and reduction initiatives)
Actions Taken this Year	- Completed major upgrades to the Sewer Treatment Plant. <i>By using Bio-mass Media technologies (1st in BC) and two Turbo Blowers (2nd in BC) operating currently at 40% capacity, we have managed to deactivate one settling pond and remove three blowers which were working at 100% capacity.</i>
Proposed Actions for Next Year	- The solid waste removed into socks at the Sewer Treatment Plant will be monitored to determine their suitability for fertilizer.

Action Type	Green Space (e.g. planting of trees)
Actions Taken this Year	- Landscaped and seeded a 100 square foot area that was previously just dirt and gravel. - <i>Created phase one of the Bike Pump Track Park.</i>
Proposed Actions for Next Year	Continue with phase two of the Bike Pump Track Park. - <i>Evaluate the health of our trees in our parks and boulevards and replant those that have not survived the harsh winter or animal destruction.</i>

2.3 Corporate Innovations

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>- The Administration Office for the Village of Radium Hot Springs has undergone a major renovation. Within these renovations cost-effective, energy saving options have been considered. As an example, installation of three 16SEER heat pumps provide 85 to 90% of the heat and 100% of the cooling requirements, reducing the need for propane which was previously used.</i></p> <p><i>- The completion of the upgrades to the Sewer Treatment Plant is also a fine example of the Village's commitment to reducing energy consumption and providing the best possible service. By using the Biomass Media technology, the first community in BC to do so, the Village will accelerate the rate of biodegradation of the sewer thus increasing the efficiency of our plant.</i></p>

Carbon Neutral Progress Reporting

Tonnes CO2e

Annual corporate emissions using SMARTTool or equivalent inventory tool	54
<i>Emissions from services delivered directly by the local government</i>	49.82
<i>Emissions from contracted services</i>	4.18
	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>	
<i>Solar Thermal</i>	
<i>Household Organic Waste Composting</i>	
<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>	
Less:	
Offsets purchased for this reporting year (Option 3). Please identify your offset provider in the offset provider information section below.	
	54
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>	

Making Progress on Your Carbon Neutral Commitment

Question	<p>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></p>
Answer	54
Action if not achieving Carbon Neutrality	<p>Initially the Council of the Village of Radium Hot Springs passed a resolution to participate in a joint procurement with other Kootenay communities to purchase a 'Dark Woods Conservation Project' through the Nature Conservancy of Canada. The final negotiations were pending due diligence when the interim report was provided. After the review was completed, the Carbon Neutral Kootenays recommended that local governments allocate \$25/tonne into a 'Climate Action Reserve Fund' or equivalent for allocation towards local energy efficiency projects. \$25/tonne has been the number used by most local governments for budgeting purposes. As of May 22nd, 2013 the Village of Radium Hot Springs passed the recommended resolution in addition to the CARIP funds being allocated to the fund.</p>

Offset Provider	Funds are in a Reserve.
We have already purchased	No
Or, will purchase by June 1, 2013	No