

Climate Action Revenue Incentive Plan (CARIP) Public Report

Climate Action Revenue Incentive (CARIP) Public Report for 2011

*City of Enderby
Regional District of the North Okanagan*

Reported by
Tate Bengtson

*Deputy Chief Administrative Officer
tate@sunwave.net*



Table of Contents

- [General Information](#)
- [Community Wide Actions](#)
 - 1.1 - [Measure](#)
 - 1.2 - [Plan](#)
 - 1.3 - [Reduce](#)
 - [Supportive](#)
 - [Direct](#)
 - 1.4 - [Community Wide Innovation](#)
- [Corporate Actions](#)
 - 2.1 - [Measure](#)
 - 2.2 - [Reduce](#)
 - [Supportive](#)
 - [Direct](#)
 - 2.3 - [Corporate Innovations](#)

General Information

Name of Local Government	<i>City of Enderby</i>
Member of Regional District (RD)	<i>Regional District of the North Okanagan</i>
Regional Growth Strategy (RGS) in region	<i>Yes</i>
Population	<i>2,964</i>

Community Wide Actions for 2011

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	<i>Engaged a consultant to complete CEEI inventory. Report completed and presented to Council April 2010. Carbon Action Initiatives Report for 2010 presented to Council in early 2011.</i>

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	Yes
Additional Information	<i>The Regional Growth Strategy, adopted in September 2011, has set GHG emission reduction targets of 15% by 2020 and of 25% by 2030. The City of Enderby set community-wide GHG reduction targets of 7% from 2007 levels by 2020 and 13% by 2030 per an OCP amendment adopted August 15, 2011.</i>

Question	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.
Answer	

	<i>Not applicable</i>
Additional Information	

1.3 Reduce

Supportive Community Wide Actions

Action Type	Broad Planning (e.g. creation/revision of OCPs, CEPs, transportation plans)
Actions Taken this Year	<i>Adopted Regional Growth Strategy which adheres to Smart Growth principles and sets GHG emission reduction targets. The City of Enderby set community-wide GHG reduction targets of 7% from 2007 levels by 2020 and 13% by 2030 per an OCP amendment adopted August 15, 2011.</i>
Proposed Actions for Next Year	<i>Commence with goals and objectives established in OCP.</i>

Action Type	Building and Lighting (e.g. developed green building policy, increased density in the downtown)
Actions Taken this Year	<i>Applied for and received funding to conduct Knoll planning, which will include an integrated sustainability plan based on Smart Growth principles.</i>
Proposed Actions for Next Year	<i>Begin Knoll planning process, which includes an integrated sustainability plan. The Knoll Neighbourhood Plan includes a review of existing development area with the view to densification.</i> <i>Adopted Wood First policy, which favours wood as the primary building material for all newly constructed public buildings. Wood offers a 60% carbon impact improvement over 120 years.</i>

Action Type	Energy Generation (e.g. signed on to provincial 'solar ready' regulation, explored options for bioheating for buildings)
Actions Taken this Year	<i>Applied for and received grant funding to explore the feasibility of biofuel as a district heating solution. Converted public swimming pool to biofuel heating system. Other buildings in community are also converting to biofuel heating.</i>

Proposed Actions for Next Year	<i>Continue to assess feasibility of biofuel for district heating. Complete project to convert sewer drying beds and put treatment buildings and dog pound on biofuel heating system.</i>
--------------------------------	---

Action Type	Green Space (e.g. developed urban forestry policy, adopted park acquisition policy)
Actions Taken this Year	<i>Adopted Master Parks Plan, which sets direction on park acquisition and improvements.</i>
Proposed Actions for Next Year	<i>Continue to implement Master Parks Plan objectives regarding park additions, improvements, and maintenance.</i>

Action Type	Transportation (e.g. developed sustainable transportation plan, completed bicycle master plan)
Actions Taken this Year	<i>Applied for Seniors Housing and Support Initiative Grant to implement a community garden, which reduces GHG emissions related to the transportation of food.</i> <i>Adopted Master Parks Plan, which addresses the relationship between trail systems and walkability.</i>
Proposed Actions for Next Year	<i>Subject to approval, proceed with Seniors Housing and Support Initiative Grant to implement a community garden.</i> <i>Continue to implement Master Parks Plan objectives related to trail systems.</i> <i>Bicycle lanes to be provided as part of Knight Street upgrade.</i>

Action Type	Waste (e.g. introduced composting and recycling education programs)
Actions Taken this Year	<i>Ongoing public communication on value of recycling.</i> <i>Free Christmas tree drop-off and chipping service hosted by City of Enderby Public Works.</i>

Proposed Actions for Next Year	<i>Continue to communicate the value of recycling and offer Christmas tree drop-off and chipping service. Wood waste to be utilized in biofuel heating system at sewer plant.</i>
--------------------------------	---

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	<i>Ongoing public communication on water conservation as part of Water Meter Phase 1. This project installed water meters for all institutional, commercial, and industrial properties as well as 85% of single-family residences. Started Phase 2 of Water Meter Project.</i>
Proposed Actions for Next Year	<i>Implement Water Meter Phase 2, which will complete installation of water meters in the remaining 15% of single-family homes. Develop plan for water meter installation in multi-family homes. Complete water rate analysis and set a rate that promotes conservation.</i>

Action Type	Other Actions
Actions Taken this Year	<i>Supported community potato box 100 mile diet initiative. Supported Chamber of Commerce's tree management strategy within a municipal park, which removed senescent trees and replaced/replanted semi-mature trees at rate of 150%.</i>
Proposed Actions for Next Year	<i>Support emerging food security initiatives, which rely on local solutions and locally produced food.</i>

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	
Proposed Actions for Next Year	<i>Knoll planning process will evaluate and use a wide range of tools to promote GHG emission reductions. This will include exploring how to incorporate sustainability principles into new buildings.</i>

Action Type	Energy Generation (e.g. implement district energy, geothermal, solar)
Actions Taken this Year	<i>Conducted feasibility study of biofuel-based district heating system.</i>
Proposed Actions for Next Year	<i>Continue to explore feasibility of biofuel-based district heating.</i>

Action Type	Transportation (e.g. implement bike lanes, pedestrian paths, upgrade transit service and infrastructure, improve roads, parking fees etc.)
Actions Taken this Year	<i>Bank stabilization of the Jim Watt Heritage Riverwalk to promote walkability.</i>
Proposed Actions for Next Year	<i>Upgrade specific small trails to link pedestrian walkways.</i> <i>Monitor municipal roadways and begin to design and implement improvements to adjust for the realignment of lighted intersections on Highway 97A through Enderby.</i> <i>Knoll planning process will explore multi-mode transportation options, including walking and biking.</i>

Action Type	Waste (e.g. introduce composting and recycling programs)
Actions Taken	

this Year	<i>Continued to offer residential recycling program.</i>
Proposed Actions for Next Year	<i>Continue to offer residential recycling program while considering further enhancements or service extensions.</i>

Action Type	Water/Sewer (e.g. implement water conservation and reduction initiatives)
Actions Taken this Year	<i>Implemented Water Meter Phase One project, which installed water meters for all institutional, commercial, and industrial properties and 85% of single-family residences.</i>
Proposed Actions for Next Year	<i>Implement Water Meter Phase Two project, which will complete installation of water meters in the remaining 15% of single-family residences. Install water meters in all multi-family residences. Complete feasibility analysis of rate structure and set a rate that will promote conservation. Continue public education campaign regarding water meters.</i>

Action Type	Green Space (e.g. plant trees, conserve forest etc.)
Actions Taken this Year	<i>Completed and adopted Master Parks Plan, which includes provisions for park acquisition and enhancement.</i>
Proposed Actions for Next Year	<i>Continue to implement the Master Parks Plan objectives related to acquisition and enhancement of green spaces.</i>

Action Type	Other Actions
Actions Taken this Year	
Proposed Actions for Next Year	

1.4 Community Wide 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	

Corporate Actions for 2011

2.1 Measure

Corporate Measurement Actions

Question	What steps has your local government taken toward completing its corporate emissions inventory (e.g. corporate assets gathered related to energy and fuel data and calculated GHG emissions from energy use)?
Answer	<i>Engaged a consultant to complete the baseline inventory in 2010. Report completed and presented to Council.</i>

Question	What tool are you using to measure, track and report on your corporate emissions (e.g. SMARTtool, other tools including excel spreadsheets)?
Answer	<i>Spreadsheets are used to track emissions.</i>

2.2 Reduce

Supportive Corporate Actions

Action Type	Broad Planning (e.g. developed corporate climate action plan)
Actions Taken this Year	<i>Ongoing work on the climate action sustainability plan.</i>
Proposed Actions for Next Year	<i>Continued implementation of the climate action sustainability plan.</i>

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

Actions Taken this Year	<i>Adopted Wood First Policy for all new civic buildings.</i>
Proposed Actions for Next Year	<i>Develop energy reduction plan for all corporate buildings in consultation with BC Hydro and Fortis BC.</i>

Action Type	Energy Generation (e.g. undertook feasibility study of green energy generation for civic buildings)
Actions Taken this Year	<i>Implemented bioheating solution for outdoor swimming pool.</i>
Proposed Actions for Next Year	<i>Explore implementation of bioheating for other civic buildings and facilities.</i>

Action Type	Transportation (e.g. created anti-idling policy for city vehicles, bike to work week promotion)
Actions Taken this Year	<i>Maintained anti-idling policy for fleet vehicles.</i> <i>Engaged in staff training delivered via webinars to reduce transportation emissions.</i>
Proposed Actions for Next Year	<i>Continue anti-idling policy.</i> <i>Continue to use webinar-based training opportunities when possible.</i>

Action Type	Waste (e.g. completed waste audit of City Hall)
Actions Taken this Year	
Proposed	

Actions for Next Year	
-----------------------	--

Action Type	<i>Water/Sewer (e.g. completed study of sewer and water energy use)</i>
Actions Taken this Year	<i>Promote staff awareness of leak detection in public buildings through the use of educational posters located near running water.</i>
Proposed Actions for Next Year	

Action Type	<i>Other Actions</i>
Actions Taken this Year	
Proposed Actions for Next Year	

Direct Corporate Actions

Action Type	Building and Lighting (e.g. energy efficiency retrofits to municipal buildings)
Actions Taken this Year	<i>Completed arena/curling rink energy conservation project for a total GHG reduction of 1.1 tonnes.</i>
Proposed Actions for Next Year	<i>Conduct analyses with BC Hydro and Fortis BC energy reduction experts.</i>

Action Type	Energy Generation (e.g. implemented heat recovery systems, solar)
Actions Taken this Year	<i>Implemented biofuel heating system for outdoor swimming pool.</i>
Proposed Actions for Next Year	<i>Biofuel equipment will be installed to heat Public Works building, dog pound, sludge and drying beds, and a future share shed. A wood-fired boiler and chipper will utilize existing wood waste that is currently being burned or hauled to landfill. Composting will occur by combining wood waste, garden waste, and sludge and using biofuel energy.</i>

Action Type	Fleet (e.g. anti-idling policies for fleet vehicles, purchasing of hybrid)
Actions Taken this Year	<i>Maintained anti-idling policy.</i>
Proposed Actions for Next Year	<i>Maintain anti-idling policy.</i>

Action Type	Waste (e.g. introduction of composting and recycling programs and education)
Actions Taken this Year	
Proposed	<i>Biofuel equipment will be installed to heat Public Works building, dog pound, sludge and drying</i>

Actions for Next Year	<i>beds, and a future share shed. A wood-fired boiler and chipper will utilize existing wood waste that is currently being burned or hauled to landfill. Composting will occur by combining wood waste, garden waste, and sludge and using biofuel energy.</i>
-----------------------	--

Action Type	Water/Sewer (e.g. initiated water conservation and reduction initiatives)
Actions Taken this Year	<i>Installed water meters on public buildings and conducted a leak detection analysis.</i>
Proposed Actions for Next Year	<i>A wood-fired boiler and chipper will utilize existing wood waste that is currently being burned or hauled to landfill. This will increase dewatering and make sludge available for composting.</i>

Action Type	Green Space (e.g. planting of trees)
Actions Taken this Year	<i>Master Park Plan completed and adopted, which sets strategic policy for park acquisition and enhancement.</i>
Proposed Actions for Next Year	<i>Park acquisition, enhancement, and tree planting will occur as prescribed by Master Parks Plan.</i>

Action Type	Other Actions
Actions Taken this Year	
Proposed Actions for Next Year	<i>Biofuel equipment will be installed to heat Public Works building, dog pound, sludge and drying beds, and a future share shed. A wood-fired boiler and chipper will utilize existing wood waste that is currently being burned or hauled to landfill. Composting will occur by combining wood waste, garden waste, and sludge and using biofuel energy.</i>

2.3 Corporate Innovations

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	