

Climate Action Revenue Incentive Program (CARIP)

Public Reporting for 2012



Reported by

Penny Page-Brittin
Environmental Sustainability
Coordinator
pbrittin@telus.net



City of Revelstoke

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Introduction

The Climate Action Revenue Incentive Program (CARIP) is a conditional grant program that provides funding to Climate Action Charter signatories equivalent to one-hundred percent of the carbon tax that they pay directly. The City of Revelstoke signed the Climate Action Charter in the fall of 2008.

To be eligible for the conditional grant, local governments must:

- Sign on to the BC Climate Action Charter, and by doing so commit to take actions and develop strategies to achieve the following 3 goals:
 1. Being carbon neutral in their corporate operations by 2012.
 2. Measure and report on their community GHG emissions profile.
 3. Create complete, compact, energy efficient rural and urban communities.
- Report publicly on their plan and progress toward meeting their climate action goals.

This report is written to satisfy the last requirement. The report indicates where the City of Revelstoke is with regards to measuring emissions at the corporate and community levels as well as actions that have been taken in 2012 and actions that are planned for 2013 to reduce emissions. These actions have been divided into two categories, supportive actions and direct actions. Supportive actions refer to activities that provide a framework or foundation for direct actions to be implemented. Direct actions refer to activities that can be directly implemented by the City.

Community Wide Actions

Measure

In 2010 the Community Energy and Emissions Inventory (CEEI), which was developed by the Province, was used with the addition of district energy to develop the City's Community Energy and Emissions Plan (CEEP). The City has provided input on the 2010 CEEI and hopes to work further with the Province to ensure district energy is included in the 2010 and subsequent CEEIs, creating a valuable tool to measure progress.

Plan

In May 2010 the City adopted into their OCP a reduction target of 6% below 2007 baseline emissions by 2020, including policies and actions towards meeting this target. The CEEP, completed in 2011, further clarified actions, polices and implementation of the plan, as well as recommending the reduction target in the OCP be amended to a reduction target of 8% by 2020 and 15% by 2030 from 2007 baseline emissions.

Reduce

Supportive Community Wide Actions	Actions Taken in 2012	Proposed Actions for 2013
Broad Planning	<p>The GHG emission reduction target in the OCP was amended to a reduction of 8% by 2020 and 15% by 2030 from 2007 baseline emissions.</p> <p>The Community Energy and Emission Plan (CEEP) and the District Energy Prefeasibility plan (DEEP) were adopted.</p> <p>A Sustainability Fair was held to raise awareness of the development of an Integrated Community Sustainably Plan (ICSP). www.cityofrevelstoke.com/index.aspx?nid=322</p> <p>Land use changes were adopted into the OCP which included Smart Growth and pedestrian oriented development.</p>	<p>Update the Heritage Strategy, exploring options to increase energy efficiency in buildings.</p> <p>Hold a Sustainability Celebration and public open house.</p> <p>Complete the Integrated Community Sustainability Plan (ICSP).</p> <p>Adopt revised environmental mapping into the OCP, including habitat types, environmentally sensitive habitat mapping and buildable lands analysis.</p> <p>Submit the adopted CEEP to FCM Partners for Climate Protection for recognition of milestones 1-3 for the community.</p>
Building and Lighting	<p>Hosted an energy efficiency information session for builders, developers, contractors and the general public.</p>	<p>Host a builder/contractor information session on the updated BC building code</p>
Energy Generation	<p>The community received two Neighbourhood of Learning grants from the Province and a new elementary and high school were completed that were developed to a LEED gold standard and hooked up to biomass district energy.</p>	<p>Exploring options for expansion of Revelstoke Community Energy Corporation (RCEC).</p>

Green Space		Explore options through the DCC Bylaw to increase parkland contribution
Transportation	<p>Bike to Work Week Revelstoke in sponsorship with the city promoted biking to work.</p> <p>Developed an educational brochure detailing the City's anti-idling bylaw, including idling myths, facts and local successes.</p>	<p>Adopt the Master Transportation Plan, including an active transportation section.</p> <p>Promote bike to work week activities in June 2013.</p> <p>Utilize the Anti-idling brochure as an "educational" ticket.</p>
Waste	Education regarding recycling was added to the City's website	<p>In conjunction with the CSRD, conduct a garbage audit of our current waste stream and a study to understand the feasibility of implementing household organic composting.</p> <p>Review the Provincial Extended Producer Responsibility approach to understand its impact on recycling collection on the City.</p>
Water/Sewer	July 2012 the City joined the CBT WaterSmart initiative.	Complete a Water Action Plan which builds on the 2007 Water Conservation Strategy.
Other Actions	Developed an Environmental Sustainability page on the City website.	Update and expand the Environmental Sustainability page on the City website.

Direct Community Wide Actions	Actions Taken in 2012	Proposed Actions for 2013
Buildings	Energy efficiency brochures were developed to provide information and resources including available financial incentives to reduce energy consumption and save money. Three separate brochures were developed with a focus on home owners, businesses and new development.	
Transportation	<p>Route changes to the transit system were made to improve the system and include more direct routes. Free transit for the month of December to encourage residents to try the new routes.</p> <p>Purchased an additional Resort shuttle bus to meet demand.</p>	<p>Exploring additional bike lanes</p> <p>Explore improving pedestrian mobility to Arrow Heights Elementary School.</p>

	<p>Added shared lane markings or sharrow to denote bike routes.</p> <p>Improvements for pedestrian mobility on Vernon Avenue and 8th Street.</p>	
Waste	<p>Curbside recycling was implemented January 2012.</p>	<p>Monitor the effectiveness of the curbside recyclable collection program by monitoring the deflection rate of recyclable materials from the solid waste stream.</p>
Water/Sewer	<p>Water conservation products were distributed at farmers markets including education on how to use them.</p> <p>A large banner was hung on the main street promoting Water Conservation.</p>	<p>Improve water conservation education and continue to provide "free" water conservation products at the farmers markets and to utilize the Water Conservation banner.</p>

Community-Wide Innovation

The City in partnership with UBC and the Pacific Institute for Climate Solutions (PICS) completed two public workshops. A three dimensional digital model of a number of areas in the community was used to illustrate how development choices relating to land use planning will impact energy consumption and greenhouse gas emissions in the future. Also, the City has reviewed the zoning bylaw to celebrate and implement Smart Growth (OCP) initiatives.

Corporate Actions

Measure

The City has completed and maintains a Corporate Energy and Emissions inventory which meets both the Provincial Climate Action Charter "traditional services" model, including contracted out services, and the Federation of Canadian Municipalities Partners for Climate Protection model. An excel spreadsheet is being used to track energy, emissions and cost related to corporate operations.

Plan

In 2011 a Corporate Energy and Greenhouse Gas Emissions Reduction Strategy was completed including a business-as-usual analysis and a reduction target of 20% below 2007 emissions levels by 2017.

Reduce

Supportive Corporate Actions	Actions Taken in 2012	Proposed Actions for 2013
Broad Planning		Evaluate the recommendation in the 2011 Corporate Energy and Greenhouse Gas emission reduction Strategy.
Building and Lighting	Energy audits were completed on the arena, the public works buildings, and the water treatment plant.	
Energy Generation		Explore options to develop a bylaw to requiring district energy hookup in specified areas.
Transportation		Explore options to purchase a hybrid/electric vehicle
Water/Sewer	Initiation of a Source Protection Plan for the Greeley Watershed including potential impacts related to climate change.	Complete Water Metering Feasibility Study. Develop a Water Loss Management Plan. Complete a Source Protection Plan for Greeley Watershed, including a public open house to raise awareness of the watershed and potential climate change impacts in the area.
Other Actions	The Environmental Sustainability Coordinator's contract was renewed for another year in June 2012. Completed the "Carbon Report".	Update the "Carbon Report", a breakdown of energy and GHG emission by city departments, to raise awareness and foster a culture of conservation.

Direct Corporate Actions	Actions Taken in 2012	Proposed Actions for 2013
Building and Lighting	<p>Upgraded the lighting at the arena to more energy efficient fixtures.</p> <p>Added DDC controls and programmable thermostats in various buildings to increase energy efficiency.</p> <p>Replaced heat pumps with high efficiency units at the community center, city hall, fire hall and museum.</p> <p>Implemented stage heating controls to the electric boiler at the court house.</p>	<p>Light and HVAC upgrades planned for the Museum, City Hall, Public Works buildings and the Community Center.</p> <p>The new Visitor/Information Center will be built district energy ready.</p>
Fleet	<p>An anti-Idling policy was developed for the municipal fleet including educational material.</p> <p>Natural Resources Canada SMART Driver training was provided to all public works staff.</p> <p>The City purchased two new transit buses.</p>	<p>Conduct a fleet review utilizing the improved data collection implemented in 2012.</p> <p>Review options for an electric vehicle plug-in station.</p>
Waste		<p>Develop a windrow compost/septage facility in conjunction with the Columbia Shuswap Regional District.</p> <p>Explore options for composting at City Hall and other city facilities.</p> <p>In conjunction with the CSRD increase education and awareness of backyard composting.</p>
Green Space	<p>Increased awareness of native and drought tolerant species</p>	<p>Continue active management of the urban forest using best practices.</p>

Corporate Innovation

The community/aquatic center, arena and city hall are all connected to biomass district energy resulting in a saving of approximately 550 tCO2 annually. A heat reclamation system installed at the pool in 2011 has resulted in significant energy savings.