

# Climate Action Revenue Incentive (CARIP) Public Report for 2011



Reported by

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City of Revelstoke

**Table of Contents**

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Introduction..... 3

Community Wide Actions ..... 4

    Measure..... 4

    Plan..... 4

    Reduce ..... 4

        Supportive Community Wide Actions ..... 4

        Direct Community Wide Actions ..... 5

Community-Wide Innovation ..... 5

Corporate Actions ..... 6

    Measure..... 6

    Plan..... 6

    Reduce ..... 6

        Supportive Corporate Actions ..... 6

        Direct Corporate Actions ..... 7

Corporate Innovation ..... 7

## Introduction

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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 2011 and actions that are planned for 2012 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

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### Measure

The Community Energy and Emissions Inventory (CEEI), developed by the province, was used in 2010 as a starting point to further refine the community inventory to include district energy. The city has been communicating with the province to ensure district energy data is included in the 2010 and subsequent CEEI reports. This will allow for a measure of progress from actions undertaken to reduce energy and emissions at the community level.

### Plan

In May 2010, the City of Revelstoke adopted a reduction target of 6% below 2007 baseline emissions by 2020, including policies and actions toward meeting this target into the OCP. In 2011 a comprehensive Community Energy and Emission Plan (CEEP) and a District Energy Expansion Pre-feasibility study (DEEP) was completed. The CEEP further clarifies actions, policies and implementation of the plan, as well as recommends the community reduction target in the OCP be amended to a reduction target of 8% by 2020 and 15% by 2030 from 2007 baseline emissions. The CEEP and DEEP will be presented to city council in 2012.

### Reduce

Supportive Community Wide Actions	Actions Taken in 2011	Proposed Actions for 2012
<b>Broad Planning</b>	Development of a Unified Development Bylaw incorporating Smart Growth principles to create a more compact, diverse, mixed-use, adaptable, walkable and resilient community. <a href="http://revelstokeudb.com">http://revelstokeudb.com</a>	Adoption of the CEEP and DEEP. Adoption of the Unified Development Bylaw. Submit the adopted CEEP to FCM Partners for Climate Protection for recognition of Milestones 1-3 for the Community. Adopt recommendations from the Parks and Recreation, Transportation, CEEP and Land Use Master Plans in the OCP.
<b>Building and Lighting</b>	An information session was held in the Spring and Fall for builders, developers, contractors and the general public to educate on energy efficiency measures and financial incentives available for existing and new buildings.	Host another information session for builders, developers, contractors and the general public.
<b>Transportation</b>	A transportation master plan was completed. A transit plan was developed. Bike to Work Week Revelstoke in sponsorship with the city, promoted biking to work and included a workplace competition and activities downtown.	Develop an educational brochure detailing the City's anti-idling bylaw, including idling myths, facts and local successes. Promote bike to work week activities in June 2012.

<b>Direct Community Wide Actions</b>	<b>Actions Taken in 2011</b>	<b>Proposed Actions for 2012</b>
<b>Buildings</b>	Funding applications were submitted in partnership with a non-profit community group for the project "Promotion of Energy Conservation through Education and Awareness". The project will provide education and "free" or subsidized energy efficient products to residents.	Implement the project "Promotion of Energy Conservation through Education and Awareness".  Develop brochures to provide information and resources including available financial incentive to reduce energy consumption and save money. The brochures will be directed toward - everyone at home and work, new construction, homeowners, businesses, and the hotel and hospitality sector.
<b>Energy Generation</b>	Completion of District Energy Expansion Pre-Feasibility study (DEEP).  The new high school was hooked up to district energy.	The new elementary school will be hooked up to district energy.
<b>Transportation</b>	An active transportation plan was completed.  Plans in place for dedicated bike lanes.	Establish dedicated bike routes.  Implement changes to increase the efficiency of the transit system.
<b>Waste</b>	A Contractor was hired to begin curbside collection of recyclables in 2012.	Curbside collection of recyclable will begin in January of 2012.  Monitor the effectiveness of the curbside recyclable collection program by monitoring the deflection rate of recyclable materials from the solid waste stream.
<b>Water/Sewer</b>		Participate in the Home and Garden show. Educational information relating to water conservation will be provided as well as "free" water saving products including moisture sensors, rain gauges and water saving hose nozzles.

### **Community-Wide Innovation**

The City of Revelstoke has partnered with UBC and Pacific Institute for Climate Solutions (PICS) to use "measured visualization" to engage community members in interactive studies that link community planning options with energy and emissions. A three dimensional digital model is being created of the community. The model will aid in educating residents about how the choices made relating to land use planning will impact our energy consumption and greenhouse gas emissions in the future.

# Corporate Actions

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## Measure

In 2011 the City completed a Corporate Greenhouse Gas Emissions Inventory. The inventory was completed to include "traditional services" including contracted out service to meet the requirements of the Provincial Climate Action Charter, as well as the "owned" or "operated" model including corporate waste to meet the requirements of the Federation for Canadian Municipalities Partners for Climate Protection model. An excel spreadsheet was created to track energy, emissions and costs related to corporate operations including district energy. The spread sheet calculates energy and emissions related to both the Climate Action Charter and Partners for Climate Protection program.

## 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 2011	Proposed Actions for 2012
<b>Broad Planning</b>	<p>Completion of the Corporate Energy and Greenhouse Gas Emissions Reduction Strategy.</p> <p>City managers and council members completed a one day Scanning and Planning workshop on Climate Change Adaptation as part of the CBT initiative Communities Adapting to Climate Change (CACC). The workshop focused on adaption, but also aided in developing an understanding of the need for mitigation.</p>	<p>Implement recommendations in the Corporate Energy and Greenhouse Gas Emissions Reduction Strategy.</p>
<b>Building and Lighting</b>		<p>Develop a Green Municipal Building Policy</p> <p>Complete energy audits on the Greeley water treatment plant, the arena and the public works buildings.</p>
<b>Transportation</b>	<p>Hosted a Natural Resources Canada Fuel Management 101 course for municipal managers.</p> <p>Installed a bulk card lock fuel containment system which will aid in data collection of city vehicles.</p> <p>Became a member of E3 Fleets.</p>	<p>Develop a municipal anti-Idling policy.</p> <p>Promote bike to work week.</p>

<b>Water/Sewer</b>		Complete a water metering report including recommendations of a rate structure, metering type, and a deployment strategy.
<b>Other Actions</b>	<p>The Environmental Sustainability Coordinator's contract was renewed for another year in June 2011.</p> <p>In June 2011 the City received recognition from FCM Partners for Climate Protection for completion of milestones 1-3 for corporate operations.</p>	<p>Deliver an education and awareness program to municipal staff to further an understanding of the corporate action plan and how it relates to GHG gas emissions and climate change.</p> <p>Develop the "Carbon Report", a breakdown of energy and GHG emissions by city department, to aid in establishing ownership of the plan and to foster a culture of conservation.</p>

<b>Direct Corporate Actions</b>	<b>Actions Taken in 2011</b>	<b>Proposed Actions for 2012</b>
<b>Building and Lighting</b>	<p>Installed energy efficient light fixtures in city buildings.</p> <p>Implemented a heat recovery system at the aquatic center.</p>	Continue to increase the energy efficiency of light fixtures in city buildings.
<b>Fleet</b>		<p>Provide Natural Resources Canada SMART Driver training to public works staff.</p> <p>Improve data collection for the city fleet to allow for a fuel management audit.</p>
<b>Waste</b>		<p>Improvements/expansion of the compost/septage facility in conjunction with the Columbia Shuswap Regional District.</p> <p>Provide an education program to support curbside recycling delivered in conjunction with the contractor.</p>
<b>Green Space</b>	Active management of the urban forest using best practices.	Continue active management of the urban forest using best practices.

### **Corporate Innovation**

The Community/Aquatic Center, Arena and City Hall are all connected to biomass district energy resulting in a savings of approximately 550 tCO<sub>2</sub> annually. This will result in an annual saving of approximately \$13,750 on the cost of purchasing carbon offsets to meet the city's obligations to be carbon neutral under the Climate Action Charter in 2012.