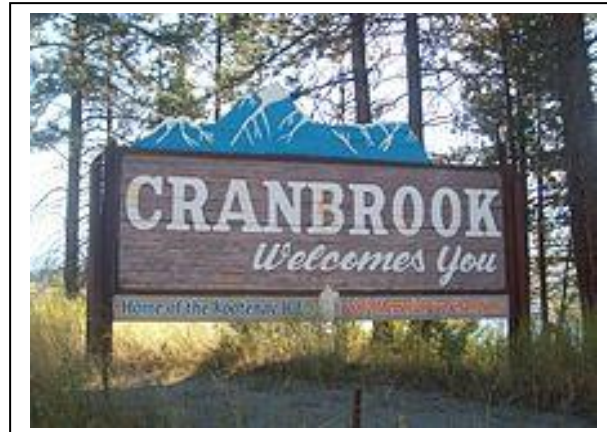


# Climate Action Revenue Incentive (CARIP) Public Report for 2015

**Local Government:**  
Corporation of the City of Cranbrook

**Report Submitted by:**  
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The Corporation of the City of Cranbrook has completed the 2015 Climate Action Revenue Incentive Program (CARIP) Public Report as required by the Province of BC. The CARIP report summarizes actions taken in 2015 and proposed for 2016 to reduce corporate and community-wide energy consumption and greenhouse gas emissions (GHG) and reports on progress towards achieving carbon neutrality. There is also an opportunity to report on climate adaptation actions.

## 2015 BROAD PLANNING ACTIONS

### Broad Planning Actions

Broad planning refers to high level planning that sets the stage for GHG emissions reductions, including plans such as Official Community Plans, Integrated Community Sustainability Plans, Climate Action Plans or Community Energy Emissions Plans. Land use planning that focuses on Smart Growth principles (compact, complete, connected, centred) plays an especially important role in energy and GHG reduction.

<b>Community-Wide Actions Taken in 2015</b>	
	Completion of storm drainage master plan
<b>Community-Wide Actions Proposed for 2016</b>	

<b>Corporate Actions Taken in 2015</b>	
	Asset Management Planning – taking into account energy consumption reductions.
	Updating of the City’s corporate Energy Policy 60-101.
	Energy Management Steering Group – 30 day staff energy conservation challenges
	Continuation with funding to Carbon Offset reserve to be used for sustainability initiatives BC Hydro – Energy Manager Partnership
	Development of the Strategic Energy Management Plan
<b>Corporate Actions Proposed for 2016</b>	
	Energy Management Steering Group – presentations to staff regarding energy use and energy conservation information
	Continuation with funding to Carbon Offset reserve to be used for sustainability initiatives BC Hydro – Energy Manager Partnership
	Adoption of the updated City’s corporate Energy Policy 60-101
	Continue development of the Strategic Energy Management Plan

Snapshot Questions	
Are you familiar with the Community Energy and Emission Inventory (CEEI)?	Yes
Does your local government use the Community Energy and Emissions Inventory (CEEI) to measure progress?	No
Which of the following does your local government use to guide climate action implementation?	
• Community Energy and Emissions (CEE) Plan	No
• Climate Action Plan	No
• Integrated Community Sustainability Plan	Yes
• Official Community Plan (OCP)	Yes
• Regional Growth Strategy (RGS)	No
• Other: (Energy Policy 60-101)	Yes
Does your local government have a climate action reserve fund?	Yes
Does your local government have a Corporate Climate Action Plan?	No

## 2015 BUILDINGS AND LIGHTING ACTIONS

### Building and Lighting Actions

Low-carbon buildings use the minimum amount of energy needed to provide comfort and safety for their inhabitants and tap into renewable energy sources for heating, cooling and power. These buildings can save money, especially when calculated over the long term. This category also includes reductions realized from energy efficient street lights and lights in parks or other public spaces.

Community-Wide Actions Taken in 2015	
	Installation and replacement of door seals at PRV buildings
	Open house to inform the public of BC Building Code changes, some of which involve energy efficiency requirements.
Community-Wide Actions Proposed for 2016	

<b>Corporate Actions Taken in 2015</b>	
	Energy Study at Western Financial Place and Cranbrook Curling Club to identify energy saving measures.
	Purchase of energy monitoring equipment to be used at various buildings.
	Corporate Energy Manager position
	Phase I, II and III of the LED Streetlight Program.
	Exterior wall remediation at Western Financial Place to correct heat loss due to insulation separation
<b>Corporate Actions Proposed for 2016</b>	
	Energy Study at Spray Irrigation Facilities and Library building to identify energy saving measures.
	Upgrading lighting to LED lighting at Western Financial Place aquatic center
	Dehumidification project at the Western Financial Place aquatic center
	Redesign of the City Hall HVAC system
	Corporate Energy Manager position

## 2015 ENERGY GENERATION ACTIONS

### Energy Generation

A transition to renewable or low-emission energy sources for heating, cooling and power supports large, long-term GHG emissions reductions. Renewable energy including waste heat recovery (e.g. from biogas and biomass), geo-exchange, micro hydroelectric, solar thermal and solar photovoltaic, heat pumps, tidal, wave, and wind energy can be implemented at different scales, e.g. in individual homes, or integrated across neighbourhoods through district energy or co-generation systems.

<b>Community-Wide Actions Taken in 2015</b>	
	Investigation of district heating plant
<b>Community-Wide Actions Proposed for 2016</b>	

Corporate Actions Taken in 2015	
Corporate Actions Proposed for 2016	
	Feasibility study for microgeneration at Idlewild Park Dam
	Feasibility study for microgeneration at the pressure reducing stations
	Corporate Energy Manager attending BC Hydro Energy Manager's Forum

Snapshot Questions	
Is your local government developing, or constructing a district energy project?	No
Is your local government operating a district energy system?	No
Is your local government developing or constructing a renewable energy project?	No
Is your local government operating a renewable energy project?	No
Are you aware of the Integrated Resource Recovery guidance page on the BC Climate Action Toolkit?	Yes

## 2015 GREENSPACE/ NATURAL RESOURCE PROTECTION ACTIONS

Greenspace/Natural Resource Protection refers to the creation of parks and greenways, boulevards, community forests, urban agriculture, riparian areas, gardens, recreation/school sites, and other green spaces, such as remediated brownfield/contaminated sites as well as the protection of wetlands, waterways and other naturally occurring features.

Community-Wide Actions Taken in 2015	
	Planted 98 trees throughout the City in partnership with BC Hydro’s Regreening Program
	New sprinkler controls were used in parks to reduce water use
	Ongoing cycle/walk trail extension and upgrades
	Springtime Spruce Up Campaign – community cleanup and beautification initiative
	Continued to follow the City’s Urban Forest Management Plan
Community-Wide Actions Proposed for 2016	
	Idlewild Park Rehabilitation project
	Planting up to 40 trees, primarily in the downtown area
	Replacing the existing garden beds at RBC/Credit Union with a native plant landscape.
	Continue to follow the City’s Urban Forest Management Plan and Parks and Recreation Master Plan

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Corporate Actions Taken in 2015	
Corporate Actions Proposed for 2016	
	Rehabilitating approximately 0.9 hectares of eroding soils at the City's reservoir using soil amendments and native vegetation (pending seed availability).
	Sprinkler controls to reduce park water use

Snapshot Question	
Does your local government have urban forest policies, plans or programs?	Yes

## 2015 SOLID WASTE ACTIONS

### Solid Waste

Reducing, reusing, recycling, recovering and managing the disposal of the residual solid waste minimizes environmental impacts and supports sustainable environmental management, greenhouse gas reductions, and improved air and water quality.

Community-Wide Actions Taken in 2015	
	Continued to support the Regional District of East Kootenay (RDEK) initiatives regarding solid waste and recycling.
	RDEK owns/operates the transfer stations and landfill facility
Community-Wide Actions Proposed for 2016	
	Continued to support the Regional District of East Kootenay (RDEK) initiatives regarding solid waste and recycling
	RDEK owns/operates the transfer stations and landfill facility


Corporate Actions Taken in 2015	
Corporate Actions Proposed for 2016	

Snapshot Questions	
Does your local government have construction and demolition waste reduction policies, plans or programs?	Yes
Does your local government have organics reduction/diversion policies, plans or programs?	No

## 2015 TRANSPORTATION ACTIONS

### Transportation

Transportation actions that increase transportation system efficiency, emphasize the movement of people and goods, and give priority to more efficient modes, e.g. walking, cycling, ridesharing, and public transit, can contribute to reductions in greenhouse gas emissions and more livable communities.

Community -Wide Actions Taken in 2015	
	Annual sidewalk rehabilitation program and capital road programs; in the Annual Capital Roads program we require the use of warm mix asphalt and 10% to 20% Recycle Asphalt Product (RAP)
	Free transit pass for low income residents through the Leisure Access Program
	Continued to promote public awareness of transit program to encourage ridership
Community-Wide Actions Proposed for 2016	
	Annual sidewalk rehabilitation program and capital road programs; in the Annual Capital Roads program we require the use of warm mix asphalt and 10% to 20% Recycle Asphalt Product (RAP)
	Continuation of promoting public awareness of the transit program and encouraging ridership
	Free transit pass for low income residents through the Leisure Access Program


Corporate Actions Taken in 2015	
	Fleet GPS for fuel consumption; fuel tracking software
Corporate Actions Proposed for 2016	
	Continuation of Fleet GPS for fuel consumption and fuel tracking software

Snapshot Questions	
Does your local government have policies, plans or programs to support: <ul style="list-style-type: none"> <li>• Walking</li> <li>• Cycling</li> <li>• Transit Use</li> <li>• Electric Vehicle Use</li> <li>• Other</li> </ul>	<b>Yes</b> <b>Yes</b> <b>Yes</b> <b>No</b> <b>No</b>
Does your local government have a transportation demand management (TDM) strategy (e.g. to reduce single-vehicle occupancy trips, increase travel options, provide incentives to encourage individuals to modify travel behavior)?	<b>No</b>
Does your local government have policies, plans or programs to support local food production (thus reducing transportation emissions)?	<b>No</b>

## 2015 WATER AND WASTEWATER ACTIONS

### Water and Wastewater

Managing and reducing water consumption and wastewater is an important aspect of developing a sustainable built environment that supports healthy communities, protects ecological integrity, and reduces greenhouse gas emissions.



<b>Community-Wide Actions Taken in 2015</b>	
	Water and sewer main annual rehabilitation program
	Water Smart Ambassador Program, funded in part by Columbia Basin Trust's Water Smart Program, from May to August. Included an elementary education program to over 800 students, 73 water assessments, 5 park assessments, and public education at various city events.
<b>Community-Wide Actions Proposed for 2016</b>	
	Continuation of the Water Smart Ambassador Program.

<b>Corporate Actions Taken in 2015</b>	
	Night time pressure reduction of potable water
	Continued Low Flow Toilet Program in city buildings and facilities
	Sewer transfer pipeline rehabilitation to reduce leakage
	Sewage irrigation pump station electrical upgrades were designed and tendered
	Completion of water system master plan and sewer system master plan
<b>Corporate Actions Proposed for 2016</b>	
	Completion of sewage irrigation pump station electrical upgrades, prior to irrigation season.
	Energy study to be completed at spray irrigation site to determine opportunities for energy reduction measures.
	Continuation of Low Flow Toilet Program in city buildings and facilities.
	Continuation of night time pressure reduction of potable water.
	Continuation of Water Smart Ambassador Program.

<b>Snapshot Questions</b>	
Does your local government have water conservation policies, plans or programs?	<b>Yes</b>

## 2015 CLIMATE CHANGE ADAPTATION ACTIONS

### Climate Change Adaptation

For local governments, adaptation to a changing climate can take the form of changes in policy, management, technology and behaviour that minimize negative impacts or exploit opportunities. It can

involve both “hard” and “soft” solutions, including: changes in infrastructure engineering, planning, zoning, bylaws, and public education.

Community-Wide Actions Taken in 2015	
Community-Wide Actions Proposed for 2016	
	Presentation to Council to bring awareness to the community on the City’s corporate energy use and energy conservation initiatives.
	Presentation to Sunrise Rotary Club on energy use and energy conservation initiatives.

Corporate Actions Taken in 2015	
	SMARTtool/CO2 emissions calculation training.
	Updating the City’s Energy Policy 60-101.
Corporate Actions Proposed for 2016	
	Adoption of the City’s updated Energy Policy 60-101.
	Presentations to staff to bring awareness to energy consumption and energy conservation initiatives.
	SMARTtool/CO2 emissions calculation training.

Snapshot Questions	
Are you aware of the Plan2Adapt guidance page on the <a href="#">BC Climate Action Toolkit</a> ?	Yes
Are you aware of the <i>Preparing for Climate Change, An Implementation Guide for Local Governments in BC</i> on the <a href="#">BC Climate Action Toolkit</a> ?	Yes
Have you visited the climate change adaptation guidance page on the <a href="#">BC Climate Action Toolkit</a> ?	Yes

## 2015 OTHER CLIMATE ACTIONS

### Other Climate Actions

This section provides local governments the opportunity to report other climate actions that are not captured in the categories above.

Community-Wide Actions Taken in 2015	
Community-Wide Actions Proposed for 2016	

Corporate Actions Taken in 2015	
Corporate Actions Proposed for 2016	

## INNOVATION AND PEER-TO-PEER LEARNING

### Innovation

This section provides the opportunity to showcase an innovative Corporate and/or Community-Wide reduction or adaptation activity that your local government has undertaken and that has had a significant impact or has the potential to have a significant impact. Projects included here may be

featured as success stories on the B.C. Climate Action Toolkit and/or shared with other local governments to inspire further climate action. Please add links to additional information where possible.

<b>Community-Wide Innovative Action</b>
<b>Corporate Innovative Action</b>

### Programs, Partnerships and Funding Opportunities

Local governments often rely on programs, partnerships and funding opportunities to achieve their climate action goals. Please share the names of programs and organizations that have supported your local government’s climate actions by listing each entry in the appropriate box below.

<b>Programs and Funding</b>

## 2015 CARBON NEUTRAL REPORTING

### Reporting Emissions

Did you measure your local government's corporate GHG emissions in 2015? (Yes/No)	YES
If your local government measured 2015 corporate GHG emissions, please report the number of corporate GHG emissions (in tonnes of carbon dioxide equivalent) from services delivered <u>directly</u> by your local government:	1648
If your local government measured 2015 corporate GHG emissions, please report the number of corporate GHG emissions (in tonnes of carbon dioxide equivalent) from <u>contracted</u> services:	35
<b>TOTAL A: CORPORATE GHG EMISSIONS FOR 2015</b>	<b>1683 tCO2e</b>

## Reporting Reductions and Offsets

To be carbon neutral, a local government must balance their TOTAL corporate GHG emissions by one or a combination of the following actions:

- undertake Option 1 Projects (GCC-supported)
- undertake Option 2 Projects (alternative) community GHG emissions reduction projects that meet project eligibility requirements
- purchase carbon offsets from a credible offset provider

**If applicable, please report the 2015 GHG emissions reductions (in tonnes of carbon dioxide equivalent (tCO<sub>2</sub>e)) being claimed from Option 1 GHG Reduction Projects:**

OPTION 1 PROJECTS	REDUCTIONS
Energy Efficient Retrofits	
Solar Thermal	
Household Organic Waste Composting	
Low Emission Vehicles	
Avoided Forest Conversion	
<b>TOTAL B: REDUCTIONS FROM OPTION 1 PROJECTS FOR 2015</b>	<b>tCO<sub>2</sub>e</b>

**If applicable, please report the names and 2015 GHG emissions reductions (in tonnes of carbon dioxide equivalent (tCO<sub>2</sub>e)) being claimed from Option 2 GHG Reduction Projects:**

OPTION 2 PROJECT NAME	REDUCTIONS
<b>TOTAL C: REDUCTIONS FROM OPTION 2 PROJECTS FOR 2015</b>	<b>tCO<sub>2</sub>e</b>

If applicable, please report the number of offsets purchased (in tonnes of carbon dioxide equivalent (tCO2e)) from an offset provider for the 2015 reporting year:  
 (NOTE: DO NOT INCLUDE ANY FUNDS THAT MAY BE SET ASIDE IN A CLIMATE ACTION RESERVE FUND)

OFFSET PROVIDER	REDUCTIONS
<b>TOTAL D: OFFSETS PURCHASED FOR 2015</b>	<b>tCO2e</b>

**TOTAL REDUCTION AND OFFSETS FOR 2015 = 0 tCO2e**

### **Corporate GHG Emissions Balance for 2015**

Your local government's Corporate GHG Emissions Balance is the difference between total corporate GHG emissions (direct + contracted emissions) and the GHG emissions reduced through GCC Option 1 and Option 2 projects and/or the purchase of offsets.

**CORPORATE GHG EMISSIONS BALANCE FOR 2015 = 1683.0 tCO2e**

**If your Corporate GHG Emissions Balance is negative or zero,  
 your local government is carbon neutral.  
 CONGRATULATIONS!**

## GCC CLIMATE ACTION RECOGNITION PROGRAM

### Green Communities Committee (GCC) Climate Action Recognition Program

The joint Provincial-UBCM Green Communities Committee (GCC) is pleased to be continuing the Climate Action Recognition Program again this year. This multi-level program provides the GCC with an opportunity to review and publicly recognize the progress and achievements of each Climate Action Charter (Charter) signatory. Recognition is provided on an annual basis to local governments who demonstrate progress on their Charter commitments, according to the following:

**Level 1 - Progress on Charter Commitments:** for local governments who demonstrate progress on fulfilling one or more of their Charter commitments

**Level 2 - Measurement:** for local governments who have measured their Corporate GHG Emissions for the reporting year and demonstrate that they are familiar with the Community Energy and Emissions Inventory (CEEI)

**Level 3 - Achievement of Carbon Neutrality:** for local governments who achieve carbon neutrality in the reporting year.

**Based on your local government's 2014 CARIP Public Report, please check the GCC Climate Action Recognition Program level that best applies:**

<input type="checkbox"/>	Level 1 - Progress on Charter Commitments	
<input checked="" type="checkbox"/>	Level 2 - Measurement	
<input type="checkbox"/>	Level 3 - Achievement of Carbon Neutrality	
<input type="checkbox"/>	Not Sure	