

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

**Local Government: Regional District North Okanagan**

**Report Submitted by:**

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The Regional District North Okanagan 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.

Community-Wide Actions Taken in 2015	
	Completion of the Electoral Area F OCP which included GHG reduction targets of 15% by 2020 and 25% by 2030 from 2007 levels.
	Participation in the Climate Action Initiative (Okanagan BC Agriculture & Climate Change Regional Adaptation Strategy)
Community-Wide Actions Proposed for 2016	
	Review of the Regional Growth Strategy which will include an analysis and update on progress as it relates to the RGS GHG target.

Corporate Actions Taken in 2015	
Corporate Actions Proposed for 2016	
	Seek direction from Board of Directors on future actions with respect to achieving carbon neutrality.

<b>Snapshot Questions</b>	
What GHG reduction targets are included in your local government's Official Community Plan or Regional Growth Strategy?	<b>RGS: 15% 2020 and 25% 2030 based on 2007 levels.</b> <b>OCP's:</b> <b>Area "B" 20% by 2020 based on 2007 levels.</b> <b>Area "C" 10% by 2020 based on 2007 levels.</b> <b>Area "D" 25% by 2030 based on 2007 levels.</b> <b>Area "E" 25% by 2030 based on 2007 levels.</b> <b>Area "F" 15% by 2020 and 25% by 2030 from 2007 levels.</b>
Are you familiar with the Community Energy and Emission Inventory (CEEI)?	<b>Yes</b>
Does your local government use the Community Energy and Emissions Inventory (CEEI) to measure progress?	<b>Yes</b>
Which of the following does your local government use to guide climate action implementation? <ul style="list-style-type: none"> <li>• Community Energy and Emissions (CEE) Plan</li> <li>• Climate Action Plan</li> <li>• Integrated Community Sustainability Plan</li> <li>• Official Community Plan (OCP)</li> <li>• Regional Growth Strategy (RGS)</li> <li>• Other:</li> </ul>	<b>No</b> <b>No</b> <b>No</b> <b>Yes</b> <b>Yes</b>
Does your local government have a climate action reserve fund?	<b>No</b>
Does your local government have a Corporate Climate Action Plan?	<b>No</b>

## 2015 BUILDINGS 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.

<b>Community-Wide Actions Taken in 2015</b>	
	Green building information distributed

<b>Community-Wide Actions Proposed for 2016</b>	
	Green building information distributed

<b>Corporate Actions Taken in 2015</b>	
	Replacement of outdoor swimming pool boiler (meets requirements for Fortis grant program).
	Installation of Low E ceiling in Pat Duke Arena, Lumby, B.C.
<b>Corporate Actions Proposed for 2016</b>	
	Energy efficient lighting upgrades to Mabel Lake Community Hall, Lumby, B.C.
	Energy efficient mechanical upgrades at Greater Vernon Museum and Archives, Vernon, B.C.
	Replacement of the hot water tank at the Pat Duke Arena with an energy efficient model.

**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>	
<b>Community-Wide Actions Proposed for 2016</b>	


Corporate Actions Taken in 2015	
Corporate Actions Proposed for 2016	

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 (insert link here)?	No

## 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	
	Promotion of Trails Day as a part of Environment Week.
	Host the Adopt-a-Park/Trail and Adopt-a Stream programs.
	Installation of interpretive signage at key greenspace sites (grassland park and lake foreshore).
	Provided land and programming resources for three community gardens.

<b>Community-Wide Actions Proposed for 2016</b>	
	Host the Adopt-a-Park/Trail and Adopt-a Stream programs.
	Installation of interpretive signage at Middleton Mountain Park (grassland habitat).
	Continue to provide land and programming resources for three community gardens.

<b>Corporate Actions Taken in 2015</b>	
	Acquisition of the Okanagan Rail Trail (Kelowna to Coldstream 50 km).
	Establishment of a restrictive conservation covenant on 1.64 Ha of property on Coldstream Creek, Coldstream, BC
<b>Corporate Actions Proposed for 2016</b>	
	Additional trail and multi-use pathway development to encourage cycling and alternative modes of transportation.
	Actively pursuing the purchase of larger parcels over 100 acres.
	Actively pursuing a restrictive conservation covenant on 1.5 Ha of land in BX area with high-quality, diverse habitat, including riparian value.

<b>Snapshot Question</b>	
Does your local government have urban forest policies, plans or programs?	<b>No</b>

## 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.

<b>Community-Wide Actions Taken in 2015</b>	
	Completed landfill gas capture system at Greater Vernon RDF
	Construction and contracting of a year round HHW drop off depot (Eco Depot) in Vernon [free drop off]
	Subsidized backyard composter sale
<b>Community-Wide Actions Proposed for 2016</b>	
	Examine landfill gas utilization options for Greater Vernon RDF
	Year round free yard waste drop off at all five RDFs

	Subsidized backyard composter sale
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Corporate Actions Taken in 2015	
	Environment Week activities and workshops at Xerindipity Garden (composting demonstration)
	Environmental Leadership Awards to honour citizens/groups that are leaders in waste diversion
Corporate Actions Proposed for 2016	
	Development of an updated Organics Management Strategy focusing on food scraps and enhanced curbside collection of yard and garden waste

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?	Yes

## 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	
	New, more efficient bus put into service for Armstrong/Enderby route
Community-Wide Actions Proposed for 2016	
	Review of Oyama/Lake Country routing and stops
	Review increasing trips from Vernon to UBCO in summer and on Saturdays for implementation in 2017

<b>Corporate Actions Taken in 2015</b>	
	Fare review
	Free Transit on Clean Air Day (part of Environment Week in June)
	Assisted with Bike To Work Week campaign
<b>Corporate Actions Proposed for 2016</b>	
	Decision on Fare Review Report from BC Transit
	Free Transit on Clean Air Day (part of Environment Week in June)
	Assist with Bike to Work Week campaign

<b>Snapshot Questions</b>	
Does your local government have policies, plans or programs to support:	
• Walking	No
• Cycling	No
• Transit Use	Yes
• Electric Vehicle Use	No
• Other	No
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)?	No
Does your local government have policies, plans or programs to support local food production (thus reducing transportation emissions)?	No

## 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>	
	Rain garden installed in Polson Park as demonstration project with multiple public/professional workshops.
	Water conservation rate structure used to encourage efficient water use.
	Promotion of water conservation and protection of watersheds as a part of events such as Drinking



	Water Week, Environment Week, Canada Day, Farmers Markets. Water conservation as a part of Environment Week One-on-One Wetland and Riparian Zone Education Program.
	Summer staff position which delivered a wetland and riparian education program.
<b>Community-Wide Actions Proposed for 2016</b>	
	Continue customer education on tools to reduce agricultural water demand. Increase enforcement of metering/flow rate limitations.
	Promotion of water conservation and protection of watersheds as a part of events such as Drinking Water Week, Environment Week, Canada Day, Farmers Markets. Water conservation as a part of Environment Week One-on-One Wetland and Riparian Zone Education Program
	Continue participation in Make Water Work Program-Okanagan Basin-wide conservation outreach program to educate public on benefits of efficient water use.

<b>Corporate Actions Taken in 2015</b>	
	Water meter replacement/remote reading pilot program
	System Audit to improve leakage/unaccounted for water losses. Rain Drop Analysis Project to map storm water drainage patterns
	Kalamalka Lake Watershed Assessment Response Plan. Customer education program on revised year-round water use restrictions.
	Duteau Creek Watershed and Kalamalka Lake Watershed Assessment Response Plan Technical Advisory Committees will meet to review progress.
	New meter technology installation training.
	Technical Advisory Committees: stakeholders for the Duteau Creek and Kalamalka Lake Watershed plans.
<b>Corporate Actions Proposed for 2016</b>	
	Continue water meter upgrade and remote reading program
	System Audit to improve leakage/unaccounted for water losses, improved tracking of water consumption by detailed customer classes (ICI, residential, multifamily, agricultural)
	Duteau Creek Watershed and Kalamalka Lake Watershed Assessment Response Plan Technical Advisory Committees will meet to review progress.
	Master Water Plan Stakeholder Advisory Committee to recommend preferred option for 40 year utility master plan
	Drought Management Plan Review and Update

<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	
	Nothing in addition to those actions noted above in the various categories
Community-Wide Actions Proposed for 2016	
	Nothing in addition to those actions noted above in the various categories

Corporate Actions Taken in 2015	
	Nothing in addition to those actions noted above in the various categories
Corporate Actions Proposed for 2016	
	Nothing in addition to those actions noted above in the various categories

Snapshot Questions	
Are you aware of the Plan2Adapt guidance page on the <a href="#">BC Climate Action Toolkit?</a>	No
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>	<b>No</b>
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## 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	
	Nothing in addition to those actions noted above in the various categories
Community-Wide Actions Proposed for 2016	
	Nothing in addition to those actions noted above in the various categories

Corporate Actions Taken in 2015	
	Nothing in addition to those actions noted above in the various categories
Corporate Actions Proposed for 2016	
	Nothing in addition to those actions noted above in the various categories

## 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.

Community-Wide Innovative Action
Corporate Innovative Action

### 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.

Programs and Funding
OBWB BC Hydro rebates UBCM Gas Tax Regionally Significant Priorities Grant (landfill gas capture) Community Works Fund

## 2015 CARBON NEUTRAL REPORTING

### Reporting Emissions

Did you measure your local government's corporate GHG emissions in 2015?	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:	522
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:	0
<b>TOTAL A: CORPORATE GHG EMISSIONS FOR 2015</b>	<b>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 (tCO2e)) 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>tCO2e</b>

If applicable, please report the names and 2015 GHG emissions reductions (in tonnes of carbon dioxide equivalent (tCO2e)) being claimed from Option 2 GHG Reduction Projects:

OPTION 2 PROJECT NAME	REDUCTIONS
Landfill Gas Capture	4
<b>TOTAL C: REDUCTIONS FROM OPTION 2 PROJECTS FOR 2015</b>	<b>tCO2e</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 (Total B+C+D) = 4 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 = (A – (B+C+D)) = 518 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	<b>2</b>
<input type="checkbox"/>	Level 3 - Achievement of Carbon Neutrality	
<input type="checkbox"/>	Not Sure	