



CITY OF
Vernon



Climate Action Revenue Incentive Program Report

City of Vernon, 2016

The City of Vernon became a signatory of the British Columbia **Climate Action Charter** in 2008. As a participating local government, Vernon is committed to lowering greenhouse gas (GHG) emissions, taking actions that demonstrate leadership on sustainable development, reporting annually on the City's progress towards these goals and achieving carbon neutrality in corporate emissions.

As part of the BC Climate Action Charter, local governments are eligible to receive conditional grant funding through the **Climate Action Revenue Incentive Program** (CARIP). CARIP reimburses the carbon tax paid by local governments and requires that municipalities measure corporate carbon emissions and annually report on their corporate and community wide sustainability actions. Vernon has undertaken CARIP reporting annually since 2010.

Provincial requirements for the 2016 CARIP Climate Action/Carbon Neutral Progress Survey include:

- Local governments are required to submit the *2016 CARIP Climate Action/Carbon Neutral Progress Survey* on or before June 1, 2017.
- Local governments are also required to publicly report the information submitted in the *2016 CARIP Climate Action/Carbon Neutral Progress Survey*.

Further information on CARIP can be found on the British Columbia [Ministry of Community Sport and Cultural Development's website](#).

The following report is based on the 'Survey Template for the 2016 Climate Action/Carbon Neutral Progress Survey' as directed by the province of BC.

The City of Vernon has completed the 2016 Climate Action Revenue Incentive Program (CARIP) Public Report as required by the Province of BC. The CARIP report summarizes actions taken in 2016 and proposed for 2017 to reduce corporate and community-wide energy consumption and greenhouse gas emissions (GHG) and reports on progress towards achieving carbon neutrality.

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2016 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 2016	
	<i>Official Community Plan (OCP) updates:</i> The OCP was updated to reflect the recently adopted Master Transportation Plan, the Parks Master Plan and the Community Wildfire Protection Plan.
	<i>Lake Access Plan:</i> A draft plan to develop a network lake access sites in Vernon, providing the community with better public access to Okanagan Lake, was developed in 2016. A final plan is expected to be completed in 2017.
	<i>Polson Park Master Plan:</i> A detailed plan for Vernon's most popular and high profile park. Initiated in 2016 and expected to be completed in 2018. Polson Park plays a significant role in attracting people to Vernon's City Centre, which is identified for redevelopment as part of the growth strategy in the OCP.
Community-Wide Actions Proposed for 2017	
	<i>Lakeshore Park Plan:</i> A design process for a new lakeshore park on Okanagan Lake to act as a gathering place for Vernon residents and a central hub for the redevelopment of a new mixed use commercial and residential village centre.
	<i>Waterfront Neighbourhood Centre Plan Implementation Strategy:</i> The development of more refined transportation and infrastructure plans, including a funding strategy, as well as refined approaches to land use and zoning to facilitate development in this neighbourhood. The development of the Waterfront Neighbourhood Centre Plan is a key component of the growth strategy of the OCP.
	<i>Lake Access Plan:</i> Council approval of the final Lake Access Plan.

Corporate Actions Taken in 2016	
	Establishment of an energy efficient equipment and sustainable materials procurement policy which gives more weighting to the selection of these products.

Broad Planning		
What is (are) your current GHG reduction target(s)?	Annual reduction of 2% until 2018, an overall goal of 12% reduction from 2007	
Has your local government used the Community Energy and Emissions Inventory (CEEI) to measure progress?	Yes	

What plans, policies or guidelines govern the implementation of climate mitigation in your community?	
• Community Energy and Emissions (CEE) Plan	No
• Climate Action Plan	No
• Integrated Community Sustainability Plan	No
• Official Community Plan (OCP)	Yes
• Regional Growth Strategy (RGS)	Yes
• Do not have a plan	No
• Other:	No
Does your local government have a corporate GHG reduction plan?	No
Does your local government have a climate reserve fund or something similar?	Yes

2016 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 2016	
	Replace T12 fluorescent lights with LED light fixtures in Visitors Centre.
	Install photocell and time clock on exterior lighting on Visitors Centre.
	Install LED exit signs on applicable Visitor Centre doors.
	Install LED light fixtures in the Parkade.

Corporate Actions Taken in 2016	
	Replace existing T8 and T12 fluorescent lighting in Fire Hall 2 with LED lighting.
	Replace all remaining incandescent light bulbs with LED equivalents in Fire Hall 2.
	Replace the existing metal halide wall mount fixtures with LED equivalents in Fire Hall 2.
	Replace existing compact fluorescent wall mount lighting fixtures in Community Services Building.
Corporate Actions Proposed for 2017	
	Replacement of all exterior CFL lighting at City Hall with LED.
	Replacement of all exterior CFL lighting at Fire Hall 1 with LED.
	Replacement of older style hot water heater in Fire Hall 2 with energy efficient model.
	Replacement of all exterior CFL lighting at the Operations building with LED.
	Replace all interior CFL exit signs with LED at the operations building.
	Replace all interior CFL exit signs with LED at the RCMP Detachment.
	Upgrade lighting in Recreation Centre's fitness gym from T-12 to T-8's.
	Upgrade lighting on Centennial Outdoor Rink from Mercury Vapour to LEDs.

2016 ENERGY GENERATION ACTIONS

Energy Generation Actions

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.

Corporate Actions Proposed for 2017	
	Installation of a solar wall for heating purposes at the City's Operations building.

Energy Generation	
Is your local government developing, or constructing:	
<ul style="list-style-type: none"> • A district energy system • A renewable energy system 	No No
Is your local government operating:	
<ul style="list-style-type: none"> • A district energy system • A renewable energy system 	Yes No
Is your local government connected to a district energy system that is operated by another energy provider?	No
Are you aware of the Integrated Resource Recovery guidance page on the BC Climate Action Toolkit ?	Yes

2016 GREENSPACE/ NATURAL RESOURCE PROTECTION ACTIONS

Greenspace 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 2016	
	<i>Parks Master Plan implementation:</i> The Parks Master Plan, which outlines a 10 year vision and implementation plan for Vernon's parks system, was initiated in 2014 and completed in 2015. Since the plan was completed, the implementation has begun with the design and construction of new

	<p>parks facilities. Such facilities include, but are not limited to, new trail networks in residential neighbourhoods, new playgrounds in close proximity to multifamily development and a new play structure adjacent to the city's transit exchange, designed to make using transit more pleasant for families with small children. Implementing the Parks Master Plan facilitates the realization of the Official Community Plan's growth strategy of compact urban development, complete communities and transportation choice by strategically identifying new parkland acquisition and development in areas targeted for new development and in neighbourhoods where park-space is beyond walking distance. This approach furthers the growth strategy, contributing to greenhouse gas emission reductions.</p>
	<p>Provided in-kind and financial support for non-profit organizations and stewardship based projects relevant to greenspace/natural resource protection actions to organizations such as the Allan Brooks Nature Centre (ABNC) (yellow fish road and various ecological conservation initiatives), Okanagan Collaborative Conservation Program (Foreshore Inventory Mapping update report for Okanagan Lake, hillside rehabilitation at Okanagan Landing Elementary, public outreach displays and Nature Trailer for the ABNC, workshop for planners on the implementation of environmental planning), and Vernon in Transition and Sustainable Environment Network Society (support of local food & agriculture seed exchange event).</p>
	<p>Enhanced the implementation of environmental and ecological protection measures in relation to development by: updated applications for Development Permit, Development Variance Permit, Zoning Permit, Subdivision and Demolition Permit applications to include riparian and contaminated sites declarations to streamline administrative process and better screen for development within environmentally sensitive areas; and reviewed and improved the City's implementation of the Riparian Areas Regulation with additional consistency and clarity.</p>
<p>Community-Wide Actions Proposed for 2017</p>	
	<p><i>Parks Master Plan Implementation (Continued):</i> Continued implementation of the Parks Master Plan is expected to include the following:</p> <ul style="list-style-type: none"> • Lakeshore Park Plan (see above) • New bike skills park • Replacement of playground at Alexis Park • Ravine trail extension in the Foothills neighbourhood
	<p><i>Lake Access Site Construction:</i> the construction of two community access points to Okanagan Lake.</p>
	<p>Continue to provide support for non-profit organizations and stewardship based projects relevant to greenspace/natural resource protection actions.</p>
	<p>Continue to provide educational outreach opportunities for environmental protection and ecological protection.</p>
	<p>Implement an area of riparian compensation and enhancement as part of the Recreation Centre renovation project.</p>

<p>Greenspace</p>	
<p>Does your local government have urban forest policies, plans or programs?</p>	<p>Yes</p>

2016 SOLID WASTE ACTIONS

Solid Waste Actions

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 2016	
	Promotional outreach for composting in partnership with the Regional District of North Okanagan to encourage a reduction of GHG emissions via lowering the amount of materials being sent to the landfill and improvements to water quality and water conservation.
Community-Wide Actions Proposed for 2017	
	Continue to encourage waste reduction through high level outreach materials and collaborate with partners where feasible.

Corporate Actions Proposed for 2017	
	Organize, in partnership with a local elementary school, a Lunch and Learn for staff to learn about the benefits of composting and how to start their own worm composting bin. Follow up by providing staff with a pilot worm composting project within City facilities.

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

2016 TRANSPORTATION ACTIONS

Transportation Actions

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 2016	
	The City held the following active transportation outreach and information booths at: Downtown Vernon Association / Greater Vernon Chamber of Commerce Expo and the Annual Sunshine

	Festival.
	The City organised local participation in: Bike to Work and School Week; Clean Air Day with free regional transit; Transit promotion; International Walk to School Week; Carpool Month and continued to expand the Pace Car Program (residents pledge to follow speed limits particularly around schools to reduce the number and severity of accidents).
	Constructed 1.3km of sidewalk in 25 th Street (Pleasant Valley Road to 46 th Avenue) including improved crosswalk signage and lining, two new zebra crosswalks and the installation of a pedestrian activated flashing amber warning lights at the intersection with 43 rd Avenue in the catchment area for two elementary schools and a high school.
	Implemented 2km of bike route signage and pavement markings in 25 th Street (Pleasant Valley Road to 46 th Avenue) and 45 th Avenue (25 th Street to 20 th Street) to connect with the Class 1 Trail (multi-use path) in 20 th Street with the bike lanes in Pleasant Valley Road via a Bike Corridor.
	Constructed 250m (phase 4) of the 29 th /30 th Street Transportation and Utility Corridor project in the heart of the downtown (Highway 6 to 30 th Avenue). This is a north-south pedestrian/cycling/transit corridor (ultimately corridor will be 2.6km long connecting Polson Park to Village Green Centre). This section included 250m of a two way cycle track separated by a buffer from the sidewalk.
	Installed pedestrian activated flashing amber warning lights for the crosswalk in Alexis Park Drive at the intersection with 42 nd Avenue. This included the installation of a bulbed sidewalk to improve pedestrian visibility of oncoming vehicles as they cross into 42 nd Avenue which leads to Alexis Park Elementary School.
	Removed / relocated identified bus stops across the city to improve bus stop spacing and maximize the efficiencies of the transit service.
	Completed the first sidewalk ramp inspection in the downtown core to identify recommended improvements to location, curb type, size and grades to improved accessibility and safety.
	Constructed a roundabout at the intersection of Pleasant Valley Road and 35 th Avenue to improve the efficient movement of vehicles while providing pedestrian crossing facilities with pedestrian activated flashing amber warning lights.
Community-Wide Actions Proposed for 2017	
	Construct a 630m sidewalk in 24 th Avenue (39 th Street to 43 rd Street) with two new crosswalks.
	Construct 225m of a 3m wide multi-use path for pedestrians and cycles on 35 th Avenue (24 th Street to 27 th Street) with improved street lighting and a new crosswalk with pedestrian activated flashing lights at the intersection with 25 th Street.
	Construct 345m (phase 5) of the 29 th /30 th Street Transportation and Utility Corridor project in the heart of the downtown (30 th Avenue to 24 th Avenue) of the north-south pedestrian/cycling/transit corridor (ultimately corridor will be 2.6km long connecting Polson Park to Village Green Centre). This section included 250m of a two way cycle track separated by a buffer from the sidewalk.
	Construct a 4m wide multi-use path in Kalamalka Lake Road 1.6km long from 14 th Avenue to the boundary with the District of Coldstream. Note: the 48.5km Okanagan Rail Trail between Coldstream and Kelowna is due to open in 2018 and Coldstream is planning to construct a pedestrian/cycle connection from the Rail Trail to the Multi-use Path in Vernon in 2018.
	Construct a 300m separated cycle track in Polson Drive and 14 th Avenue to connect the cycle facilities in Polson Park to the multi-use path in Kalamalka Lake Road.
	Construct a 2m wide shoulder in Pottery Road from 13 th Street to Francis Street (Hillview Elementary School). It should be noted that first 414m of this project is within the City of Vernon and 410m is in Electoral Area C of the Regional District of North Okanagan (RDNO). With approval and funding from the Ministry of Transportation and RDNO the City has designed and will be

	constructing 410m of 2m wide shoulder from the City Boundary to the intersection next to the school.
	Undertake the identified improvements to location, curb type, size and grade for ten sidewalk ramps to improve accessibility and safety.
	The City plans to work cooperatively with BC Transit to undertake a service review of the custom transit service, which includes, handyDART, taxi-saver and taxi supplement.

Corporate Actions Taken in 2016	
	Fleet Replacement Strategy emphasizing vehicle and equipment replacement of older tier 0 and tier 1 equipment with newer tier 4 technology (Replaced 1992 JD Loader with 2017 Cat loader tier 4 fully compliant.)
	Vehicle replacement strategy replacing older units with current emission technology (replacement of two old F350 utility trucks with new 2016 F350 trucks. Replacement of 2002 International dump truck with 2016 Freightliner dump truck, 2016 OBD EPA CARB GHG 17 compliant.
	Expanded use of GPS for route planning and infrastructure repairs by Operations department.
	Emphasis on anti-Idle policy and staff awareness of GHG effects.
	Research for fuel efficiencies and incorporation of options for hybrid and alternate fuel vehicles and equipment through the tender process.
Corporate Actions Proposed for 2017	
	Acquisition of a fully electric vehicle.
	Replacement of 1997 diesel powered FE350 van with 2017 Flex fuel Transit.
	Replacement of 2006 Sterling vacuum truck with 2017 Freightliner OBD EPA CARB GHG 17 compliant.
	Replacement of two 2001 Pickup trucks with new current emission technology pickup trucks.
	Replacement of one 2003 Pickup truck with a new current emission technology pickup truck.
	Replacement of a 2007 Chev van with a new 2017 equivalent.

Transportation	
Does your local government have policies, plans or programs to support:	
• Walking	Yes
• Cycling	Yes
• Transit Use	Yes
• Electric Vehicle Use	Yes
• Other (please specify): Carpooling	Yes
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)?	Yes
Does your local government have policies, plans or programs to support local food production (thus reducing transportation emissions)?	Yes

2016 WATER AND WASTEWATER ACTIONS

Water and Wastewater Actions

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.

Community-Wide Actions Taken in 2016	
	The City of Vernon is committed to reducing water consumption and wastewater flows. The city's Liquid Waste Management Plan identifies wastewater flow reduction as a key goal. In 2016 city council approved replacement of several kilometers of failed sanitary sewer pipe and related infrastructure to limit inflow and infiltration. City council also approved funding to complete inspection of key sections of sanitary sewer trunk lines and collector pipe to help plan future capital works replacement and limit inflow and infiltration.
	Provided promotional outreach for water conservation and watershed protection in partnership with the Regional District of North Okanagan.
	Supported and participated with the Okanagan Basin Water Board in watershed conservation and protection initiatives, programs and policy.
	Supported the Okanagan Collaborative Conservation Program in initiating the Foreshore Inventory Mapping Update Report for Okanagan Lake in order to monitor and evaluate changes between 2009 and 2016.
Community-Wide Actions Proposed for 2017	
	Continue to collaborate with the Regional District of North Okanagan and various community stewardship groups and partners to encourage water conservation and watershed protection.
	Continue to support stewardship initiatives, programs and projects in support of watershed protection and water conservation.
	The City plans to conduct a Drainage Infrastructure Prioritization Study in 2017 to prioritize investments and set sustainable levels of service for the City's stormwater system. This would be done using a risk-based approach which measures likelihood and consequence of failure for both condition and capacity of each stormwater asset. The list of prioritized stormwater asset replacements would be utilized to inform the City's long term infrastructure planning. Catchments and overland flow routes would also be assessed for risk as a means to advise Administration where to focus resources for the major overland stormwater system. All risk will be based on a triple-bottom line approach that incorporates social, economic and environmental factors.
	Through the use of trenchless technology the City of Vernon was able to reduce the cost of sanitary and storm main infrastructure. The use of trenchless technology for selected pipe rehabilitation typically reduces Greenhouse Gas Emissions by 90%. In 2017, the City is planning to complete rehabilitation of 650m of pipe by trenchless technology.
	The City continues with its LWMP goal of reducing wastewater flows by identifying high risk infrastructure and replacement as part of the City's annual capital works program.
	The City is reducing untreated wastewater released into the watershed by implementing sewer extension for the remaining 800 homes in the Okanagan Landing area that are still using individual onsite septic disposal in urban density subdivisions. Reduction of liquid waste from individual onsite septic sources was identified in the City's LWMP and continues to be a priority for the community. In 2016 the city was awarded \$3.1 million in Clean Water Wastewater Fund (CWWF) grant funding to help achieve this goal and the first phase of the sewer extension project is now underway.

Corporate Actions Taken in 2016	
	Completion of the spray irrigation optimization plan. This program recovers the treated wastewater that the city generates, stores it in a reservoir and then distributes the water to farmers on the spray irrigation system and three local golf courses. The optimization plan will create additional efficiencies to allow for greater usage of the re-claimed water.
Water Conservation	
Does your local government have water conservation policies, plans or programs?	Yes

2016 CLIMATE CHANGE ADAPTATION ACTIONS

Climate Change Adaptation Actions

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.

Climate Change Adaptation Actions Taken in 2016	
	Provided in-kind and financial support for non-profit organizations and stewardship based projects relevant to climate change and adaptation actions such as Vernon in Transition and Sustainable Environment Network Society (support of community educational and learning opportunities) and the Downtown Vernon Association (Earth Day Birthday Celebration and PARK(ing) Day provided the community with environmental educational outreach and celebration opportunities).
	Distributed educational materials and provided programming in support of passive energy reduction via the promotion of urban canopy growth via the City’s Boulevard and Neighbourhood Tree Programs. As a result, 77 vouchers were distributed as part of the 2016 Neighbourhood Tree program (more than doubled compared with 2015).
	Continued to implement land use policies and infrastructure investment that focus on compact development that supports alternative transportation options (ex. Redevelopment of City Centre for Small Lot Single and Two Family Developments, continual investment in the 29 th /30 th Street Transportation and Utility Corridor project). By developing residential uses in close proximity to commercial services, employment, schools and recreational amenities, people have greater opportunity to walk or bike, and development occurs at densities necessary to support the provision of efficient public transit. Compact development and alternative transportation options also reduce cost of maintaining and replacing infrastructure, promoting greater financial sustainability for the City in the long term.
Climate Change Adaptation Actions Proposed for 2017	
	The City plans to conduct a Drainage Infrastructure Prioritization Study in 2017. The objective of this project is to provide a risk based approach and an intuitive and scalable process to integrate climate change (as well as other risk factors such as condition of materials and infrastructure capacity) with asset management and master plans into the capital planning process. Most communities take a

	reactive approach when it comes to infrastructure management; this project will provide Administration the information and confidence to make sound infrastructure planning decisions (be proactive) in order to provide quality services today and long into the future.
	<i>Climate Action Committee:</i> Vernon will be developing a process to refine its GHG reduction targets and identify initiatives for Climate Change adaption in 2017, with the process to continue into 2018. This process will include the creation of a new committee consisting of City representatives and Vernon residents to craft this plan.
	Continue to provide support for non-profit organizations, stewardship based projects and community educational / outreach opportunities for climate change adaptation and mitigation.

Resources you have used to support climate change adaptation (e.g. Plan2Adapt, Preparing for Climate Change: Implementation Guide)	
	Green Bylaws Toolkit

In 2016 did you consider climate change impacts in any of the following areas? (check if yes)	
<ul style="list-style-type: none"> Risk reduction strategies Risk and Vulnerability assessment Asset management ✓ Infrastructure upgrades (e.g. stormwater system upgrades) Cross-department working groups ✓ Emergency response planning Land-use policy changes (e.g. OCP, DPA) ✓ Economic diversification initiatives ✓ Ecosystem-based approaches (incl. shorelines) ✓ Incentives (e.g. property owner reducing stormwater run-off) Public education and awareness ✓ Research (e.g. mapping, participation in studies) 	

Other	
Are you familiar with the Community Lifecycle Infrastructure Costing Tool (CLIC) ?	Yes
Have you used CLIC?	No

INNOVATION AND PEER-TO-PEER LEARNING

Innovation

This section provides the opportunity to showcase an innovative Corporate and/or Community-Wide GHG reduction or climate change adaptation activity that your local government has undertaken and that has had 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.

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 box below.

Programs and Funding
Partnerships have become both effective and necessary in being able to deliver the level of outreach and opportunity the City has provided in its sustainability program. From working with the local business community, to local stewardship groups, all the way to regional non-profit collaborative and boards related to sustainability – the continuations of collaborative partnerships have become imperative to the future success of sustainability programs. Partners include: Allan Brooks Nature Centre, Sustainable Environment Network Society, Vernon in Transition, Downtown Vernon Association, Okanagan Collaborative Conservation Program, Okanagan Basin Water Board, and Vernon Farmers' Market.
Vernon had established a Carbon Tax Reserve Fund at the inception of the CARIP program. For 2017, the City has proposed to establish a project team to determine the future of the Carbon Tax Reserve Fund, including putting together an associated strategy, program and to compile a potential project list.

2016 CARBON NEUTRAL REPORTING

Local governments are required to report on their progress in achieving their carbon neutral goal under the Climate Action Charter. Working with B.C. local governments, the joint Provincial-UBCM Green Communities Committee (GCC) has established a common approach to determining carbon neutrality for the purposes of the Climate Action Charter, including a Carbon Neutral Framework and supporting guidance for local governments on how to become carbon neutral.

Prior to completing this survey, please ensure that you are familiar with guidance available on the B.C. Climate Action Toolkit website, especially *Becoming Carbon Neutral: A Guide for Local Governments in British Columbia*.

Reporting Emissions

Did you measure your local government's corporate GHG emissions in 2016?	Yes
If your local government measured 2016 corporate GHG emissions, please report	2,828 tCO ₂ e

the number of corporate GHG emissions (in tonnes of carbon dioxide equivalent) from services delivered <u>directly</u> by your local government:	
If your local government measured 2016 corporate GHG emissions, please report the number of corporate GHG emissions (in tonnes of carbon dioxide equivalent) from <u>contracted</u> services:	585 tCO ₂ e
TOTAL A: CORPORATE GHG EMISSIONS FOR 2016	3,413 tCO₂e

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

If applicable, please report the 2016 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	0
Solar Thermal	0
Household Organic Waste Composting	0
Low Emission Vehicles	0
Avoided Forest Conversion	0
TOTAL B: REDUCTIONS FROM OPTION 1 PROJECTS FOR 2016	0 tCO₂e

If applicable, please report the names and 2016 GHG emissions reductions (in tonnes of carbon dioxide equivalent (tCO₂e)) being claimed from Option 2 GHG Reduction Projects:

OPTION 2 PROJECT NAME	REDUCTIONS
TOTAL C: REDUCTIONS FROM OPTION 2 PROJECTS FOR 2016	0 tCO₂e

If applicable, please report the number of offsets purchased (in tonnes of carbon dioxide equivalent (tCO_{2e})) from an offset provider for the 2016 reporting year:

(NOTE: DO NOT INCLUDE ANY FUNDS THAT MAY BE SET ASIDE IN A CLIMATE ACTION RESERVE FUND)

OFFSET PROVIDER NAME	OFFSETS
TOTAL D: OFFSETS PURCHASED FOR 2016	0 tCO _{2e}

TOTAL REDUCTIONS AND OFFSETS FOR 2016 (Total B+C+D) =0 tCO_{2e}

Corporate GHG Emissions Balance for 2016

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 2016 = (A – (B+C+D)) =3,413 tCO_{2e}

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.

This year a new recognition level has been added – **Level 3: Accelerating Progress on Charter Commitments**–. Recognition is provided on an annual basis to local governments who demonstrate progress on their Charter commitments, according to the following:

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

Level 2 – Measuring GHG Emissions: for local governments that achieve level 1, and 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 – Accelerating Progress on Charter Commitments: for those local governments who have achieved level 1 and 2 and have demonstrated undertaking significant action (corporately or community wide) to reduce GHG emissions in the reporting year (i.e.: through undertaking a GHG reduction project, purchasing offsets, establishing a reserve fund).

Level 4 - Achievement of Carbon Neutrality: for local governments who achieve carbon neutrality in the reporting year.

For purposes of Level 3 recognition, if applicable, please identify any new or ongoing corporate or community wide GHG reduction projects (other than an Option 1 or Option 2 project) undertaken by your local government that reflects a significant investment of time or financial resources and is intended to result in significant GHG reductions:

Based on your local government's 2016 CARIP Climate Action/Carbon Neutral Progress Survey, please check the GCC Climate Action Recognition Program level that best applies:

<input type="checkbox"/>	Level 1 – Demonstrating Progress on Charter Commitments	
<input type="checkbox"/>	Level 2 – Measuring GHG Emissions	
<input checked="" type="checkbox"/>	Level 3 – Accelerating Progress on Charter Commitments	✓
<input type="checkbox"/>	Level 4 - Achievement of Carbon Neutrality	
<input type="checkbox"/>	Not Sure	