



Climate Action Revenue Incentive Program (CARIP) Public Report for 2016

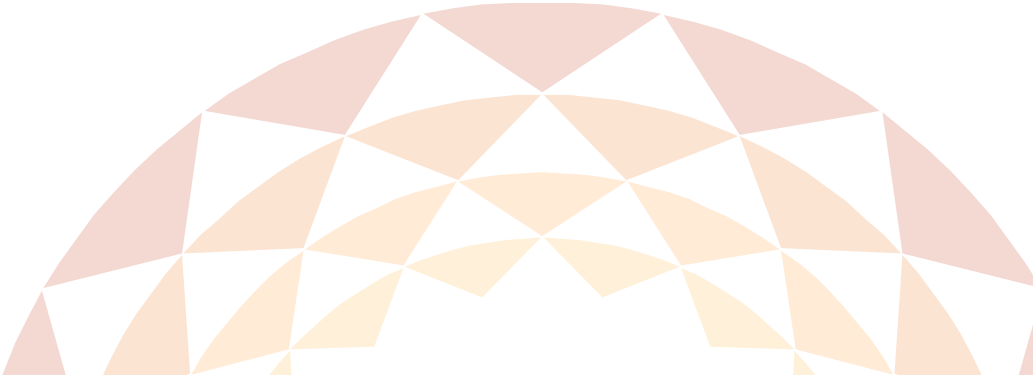
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Table of Contents

- Table of Contents..... 2
- 2016 Broad Planning Actions3
- 2016 Buildings and Lighting Actions5
- 2016 Energy Actions 6
- 2016 Greenspace / Natural Resource Protection
Actions.....7
- 2016 Solid Waste Actions..... 8
- 2016 Transportation Actions..... 9
- 2016 Water and Wastewater Actions 11
- 2016 Climate Change Adaptation Actions..... 12
- 2016 Other Climate Actions 13
- Innovation and Peer to Peer Learning14
- 2016 Carbon Neutral Reporting16
- GCC Climate Action Recognition Program..... 17



2016 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	
	Completed a Community for All Action Plan which focusses on seniors, children and people with diverse abilities. This Plan includes actions related to encouraging alternative transportation.
	Completed Urban Infill Challenge and drafted bylaw changes to support the densification of select urban areas.
	Completed the Urban Centres Roadmap in June 2016, strategy provides more detailed performance targets for future urban centre planning related to land use, sustainable transportation, parks and open space. Key principles and targets relate to complete communities goals, the strategy will also be used to guide future urban centre planning.
	Initiated the "Imagine Kelowna" community engagement process for the long-term strategic community vision kicked-off in May 2016.
	Pedestrian and Bicycle Master Plan completed
	Initiated work on Regional Strategic Transportation Plan.
	Updated the Solid Waste Management Plan for the Central Okanagan.
Community-Wide Actions Proposed for 2017	
	Kelowna's Community Climate Action Plan will be updated in 2017 and will establish a new target beyond 2020 and identify actions to reduce emissions from transportation, buildings, waste, planning and technology.
	Complete the bylaw changes for the urban infill challenge.
	Will be working on the Capri-Landmark Urban Centre Plan that will integrate the urban centres roadmap principles and targets and advance the city's efforts to revitalize its urban centres and promote complete communities.
	Complete "Imagine Kelowna" strategic community vision.
	Continue to work on Regional Strategic Transportation Master Plan.
	Initiate an update on the Transit Future Action Plan with BC Transit.
	Initiate work on a new Transportation Master Plan (to be completed in 2018)
	Endorse Solid Waste Management Plan for the Central Okanagan.
Corporate Actions Proposed for 2017	
	Review an update of the Corporate Energy and Emissions Plan

Broad Planning	
What is (are) your current GHG reduction target(s)?	The City of Kelowna will, in partnership with: senior governments; local residents and businesses; NGOs; external agencies; and utility providers, work towards reducing community greenhouse gas emissions by 33% (from 2007 levels) by 2020.
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? <ul style="list-style-type: none"> • Community Energy and Emissions (CEE) Plan • Climate Action Plan • Integrated Community Sustainability Plan • Official Community Plan (OCP) • Regional Growth Strategy (RGS) • Do not have a plan • Other: 	No Yes No Yes Yes No No
Does your local government have a corporate GHG reduction plan?	Yes
Does your local government have a climate reserve fund or something similar?	Yes

2016 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.

Community-Wide Actions Taken in 2016	
	Partnered with FortisBC to send information on small and medium business energy efficiency programs through City commercial utility billing.
	Partnered with FortisBC to send information on small and medium business energy efficiency program through annual business license renewal letters.
Community-Wide Actions Proposed for 2017	
	The City partnered with Interior Health to send a letter of support to over 40 community organizations to encourage their members to sign up for FortisBC's Energy Conservation Assistance Program which helps low income residents save energy costs and improve efficiency.
	Assist FortisBC to distribute New Home and Renovation Rebate brochures through building permit office and inspectors.
	Work with FortisBC to distribute information on efficiency rebates for renovations, new homes and appliances through City e-bulletin.

Corporate Actions Taken in 2016	
	Rutland Arena Heat Recovery project – 24,60 GJ/year savings (122 tonnes CO ₂ e)
	City Yards Boiler Upgrade – 890 GJ/year savings (44 tonnes CO ₂ e)
	Capital News Centre LED Lighting Upgrade 686,103 kWh/year savings
	Waste Water Treatment Facility Exterior Lighting Upgrade – 72,165 kWh/year savings
Corporate Actions Proposed for 2017	
	Commencement of LED street light retrofit – 3.5 GWh/year savings
	Memorial Parkade – LED lighting and controls project – 109,318 kWh/year
	Police Services Building – high efficiency mechanical plant, high performance windows, LED lighting – 4,216 GJ/year savings (209 tonnes CO ₂ e), 154,604 kWh/year savings
	Review of outdoor lighting at the Wastewater Treatment Facility
	Re-configuring HVAC systems at some major Pump Operations facilities to reduce energy consumption.
	Ongoing programs and Fortis assessments to improve insulation in all Pump Operations facilities to reduce energy consumption.

2016 Energy 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.

Community-Wide Actions Taken in 2016	
	Okanagan College continues to be heated through clean wastewater effluent from Kelowna’s Wastewater Treatment Facility and heat pumps.

Corporate Actions Taken in 2016	
	Upgraded landfill gas collection and equipment to allow for FORTIS BC to perform trials and commissioning of their biogas plant. Successful trials attempted in Q4.
Corporate Actions Proposed for 2017	
	Finalize initial commissioning of the FORTIS Plant. Work to assist in optimization including installation of upgraded landfill gas header pipes. FORTIS to begin full operation of plant.

Energy Generation	
Is your local government developing, or constructing: <ul style="list-style-type: none"> • A district energy system • A renewable energy system (in partnership with FortisBC, landfill gas to pipeline) 	No Yes
Is your local government operating: <ul style="list-style-type: none"> • A district energy system • A renewable energy system (in trial and final commission phase in partnership with FortisBC for landfill gas to pipeline, heat from Waste Water Treatment facility heats neighbouring Okanagan College) 	No Yes
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 ?	No

2016 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 2016	
	Sold 500 large trees through Neighbourwoods program – a residential planting initiative developed to encourage citizens to help grow and preserve Kelowna’s healthy neighbourhoods urban forest.
	Munson Pond Park developed in cooperation with the Central Okanagan Land Trust
Community-Wide Actions Proposed for 2017	
	Continue the Neighbourwoods program offering another 500 large caliper trees to residents.

Corporate Actions Taken in 2016	
	Planted 5000 ponderosa seedlings in City’s natural parks. The plantings are assisting with the trees that were lost in the past 5 years due to forest health issues (e.g. Pine beetle, Tussock Moth, drought and snow damage). Further 200 large caliper trees were planted in parks and boulevards, as well as inherited approximately 100 new trees as requirements of developments that occur.
	Updates to tree inventory system. Currently there are 25,000 trees in the inventory.
	Received a grant from the Okanagan Basin Water Board to develop a Tree Management Plan for Mill Creek that will target trees along Mill Creek on city owned properties.
Corporate Actions Proposed for 2017	
	Planning to ramp up tree plantings in the spring and fall with up to 300 large caliper trees being planted and an additional 5000 more Ponderosa Pine seedlings for planting in the City’s natural parks.
	Introduce a tree protection policy for trees on City property
	Create a tree planting standard for trees on City property. This standard may be shared with the public for general information.

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

2016 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	
	Sold 299 composting units in City of Kelowna as part of annual composter sale.
	Hosted 4 reuse events (trunk sales and a Repair café)
	Commercial and residential waste monitoring for mandatory recyclables using RFID technology and physical monitoring.
	Illegal dumping monitoring, education and cleanup.
Community-Wide Actions Proposed for 2017	
	Begin implementing Solid Waste Management Plan recommendations including pilot program for bulky item collection and needs assessment for additional depots/transfer stations in order to increase accessibility.

Corporate Actions Taken in 2016	
	2450m of leachate recirculation pipe was added at the landfill.
	Engineered the tie in collectors with recirculating pumps and dispersal field at the landfill.
Corporate Actions Proposed for 2017	
	Continue to add recirculation pipes and distribution pumps as landfill grows.

Solid Waste	
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? Composter sales to divert organics from waste stream.	Yes

2016 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	
	Working on a review of bike parking regulations that will promote improved bike parking and end of trip facilities.
	Expanded the active transportation network by 1,350m of sidewalk, 4 km of shared paths, cycle tracks and bike lanes
	Completed 16 bus stop upgrades for accessibility and passenger comfort
	Partnered with Fortis BC to install 2 EV charging stations.
	Conducted Safe Routes to School program at Raymer Elementary and Pearson Elementary.
	Partnered with Interior Health on transportation demand strategies for Interior Health employees.
Community-Wide Actions Proposed for 2017	
	The City will review and update infrastructure policies, bylaws and guidelines to ensure accessibility features are incorporated to encourage walking and cycling for all ages and abilities.
	Re-develop a travel training program to encourage people to use regular transit as an alternative to accessible transit.
	Pilot a program to incorporate 3 City fleet bicycles into the Ogo Car Share program so that they are available for City staff and Ogo Car Share members. This will encourage the use of alternative transportation.
	Bike parking review will finish in 2017.
	Car Sharing policy review to look at incentives to integrate car sharing in multi-family residential developments as a tool to reduce parking requirements and encourage more alternative forms of transportation and reduce GHGs.
	Will build 1 km of sidewalk, 9 km of bike lanes and 675 meters of cycle tracks. BikeBC providing funding towards the Okanagan Rail Trail project.
	Building 13 bus stop upgrades
	Conducting Safe Routes to School program at Belgo Elementary.
	Constructing roundabouts at Doyle/Water and Lakeshore/Collett.
	Presenting an anti-idling bylaw to regional board and City Council for adoption.
	ICBC providing funding for a roundabout planning study.
	BikeMaps.org providing a platform for reporting safety issues and deficiencies in the bike network.
	Cycling in Cities Research Program (an initiative of SFU/UBC) is conducting research on attitudes towards cycling in Kelowna.

Corporate Actions Taken in 2016	
	Acknowledged with a "Kal Tire Certificate of Corporate Social Responsibility" for saving approximately 14,380 litres of oil and prevented 253 tires from going into landfills over the past 3 years through the use of retreaded tires.
	Purchased 10 hybrid vehicles and 1 electric vehicle.
	Partnered with Ogo Car Share Co-op with city vehicles.
	Continue to use up to 20% bio-diesel.
	Converting equipment lighting on work vehicles from incandescent to LED.
	Continue to use the automatic vehicle locator system to look for efficiencies.
Corporate Actions Proposed for 2017	
	Add more electric personnel movers (carts) to fleet at the cemetery and landfill.
	Purchase 2 electric assist tricycles.
	Investigate adding hybrid arborist truck to fleet.
	Continue to use bio-fuel and look for efficiencies with automatic vehicle locator system.

Transportation	
<p>Does your local government have policies, plans or programs to support:</p> <ul style="list-style-type: none"> • Walking (Pedestrian and Bicycle Master Plan) • Cycling (Pedestrian and Bicycle Master Plan) • Transit Use (Transit Future Plan) • Electric Vehicle Use (Eco-pass permit program Eco-Passes are available for any plug-in or hybrid electric vehicle) • Other (please specify) 	<p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>No</p>
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)? OCP Policy, Agriculture Plan, Community Garden partnerships	Yes

2016 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	
	Achieved sign-off on guiding principles for Value Planning of a Kelowna Integrated Water Supply Plan. Applied for funding for Phase 1 of this plan.
	Fats, Oils and Grease promotions to inform customers of the importance of keeping oil and grease out of the sanitary sewers through social media, news releases, website and 17,500 brochures to City Utility customers
	Swimming pool / hot tub draining promotion through media ads, news releases and social media to inform residents of the correct way to drain water for their swimming pools/hot tubs.
	The City of Kelowna offered a \$40 rebate to water users who purchased a new irrigation controller that was compliant with the updated Water Regulation By-Law. The Water Smart Program has reduced the amount of water used for Irrigation through offering free irrigation system assessments and enforcing an Irrigation System Approval application process.
Community-Wide Actions Proposed for 2017	
	Completed Value Planning, executed a Transition Agreement with one of four large water improvement districts and received approval of a \$43.9 million grant for Phase 1 of Kelowna Integrated Water Supply Plan. This year will now be used to ramp up to deliver this capital project over next two years.
	Continuation of fats, oils and grease promotion to keep these substances out of the sanitary sewers.
	Continuation of correct way to drain swimming pools and hot tub promotion
	The City plans to roll out a new water meter program that will enforce water regulations and notify City staff of any violations
	Residents will be educated on the Water Smart Program by neighborhood hand out brochures.
	Gathering rain water to irrigate residential properties as oppose to domestic water. Adopt Slow It, Sink It, Spread It by OBWB to prevent additional loading on Storm water System.

Corporate Actions Proposed for 2017	
	Replacement of WWTF process air compressor. Replace air compressor which has reached end of life with an energy efficient model. Replace air dryer system which has reached end of life with a new system which will improve air quality and usage for pneumatic equipment resulting in more efficient operations and energy usage.
	Refining Drinking Water Reservoir cleaning procedures to reduce volumes of water wasted. Convert analytical testing methods to alternates that reduce use of hazardous chemical and water consumption used to run instruments.

Water Conservation	
Does your local government have water conservation policies, plans or programs?	Yes

2016 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	
	Draft Community Wildfire Protection Plan.
	Water Regulation Bylaw Update which implements water use restrictions on a permanent basis,
Climate Change Adaptation Actions Proposed for 2017	
	Endorse Community Wildfire Protection Plan.

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

In 2016 did you consider climate change impacts in any of the following areas? (check if yes)	
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 (eg. 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 (Please Identify):	

2016 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 2016	
	Completed 18 woodstove exchanges.
	Through agricultural chipping program and woodstove exchanges, reduced GHG emissions by 51 tonnes CO ₂ e.
	Completed the "Spatiotemporal Variation of PM _{2.5} in the Central Okanagan Region" with partial funding from the BC Clean Air Research Fund.
	Initiated strategies to reduce smoke in the Central Okanagan
Community-Wide Actions Proposed for 2017	
	Update regional open burning bylaws and promoting alternatives to burning.
	Woodstove exchange program continues with 43 rebates available.

Corporate Actions Taken in 2016	
	The City of Kelowna worked with SSG Consulting to create an interactive model called Model Health which aligns land use patterns and its impact on the health of residents.

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.

Community-Wide Innovative Action
<ul style="list-style-type: none"> • The City is very proud of the successful NeighbourWoods Program. This program encourages planting trees on private land and the cost of the trees is supplemented by the City. For more information on the program visit https://www.kelowna.ca/parks-recreation/urban-trees-wildlife/neighbourwoods?t=neighbourwoods. • The City has started to plant large trees bare root. The quality of the roots is higher and the cost of installation are lower. • ModelHealth is a city modelling tool that assesses built environment characteristics that a) are known to influence health outcomes, and b) can be altered by urban planning decisions. The model estimates potential changes to certain health outcomes that might result from changes in urban form. The model uses GIS spatial data to determine the relationships between built environment elements such as locations of homes, roads, sidewalks, and locations of work, play and education. Built environment and human behavioural relationship assumptions are applied to determine the likelihoods of residents using different modes of travel, their exposure to air pollution, their rates of physical activity, pedestrian safety, and access to nature—each on a daily basis. Once assembled, this 'picture of health' can then be compared to one that might result under a different built environment scenario, for example, after the addition of a new housing development or construction of new roads. Results are either displayed spatially (mapped) across the City's transportation zones or tallied for the whole City.
Corporate Innovative Action
<ul style="list-style-type: none"> • The City's participation in helping grow a non for profit car share program demonstrates the City's commitment in reducing greenhouse gases, reducing operational costs and making available to its citizens alternate commuting choices. The City has added several of its fleet vehicles into the pool, allowing access. Further, the City has provided parking locations for several of the car share vehicles. Three and a half short years the program has grown from 2 vehicles to 12 vehicles and over 400 members.

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
<ul style="list-style-type: none">• FortisBC – providing funding towards Community Climate Action Plan and partnering on other initiatives (e.g. landfill gas to pipeline)• ICBC – providing funding towards roundabout planning study• BikeBC – received Provincial funding for the Okanagan Rail Trail• BikeMaps.org – providing a platform for reporting safety issues and deficiencies• Cycling in Cities Research Program – conducting research on attitudes towards cycling in Kelowna• Interior Health – partnering on the Healthy City Strategy

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 the number of corporate GHG emissions (in tonnes of carbon dioxide equivalent) from services delivered <u>directly</u> by your local government:	6,022
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:	
TOTAL A: CORPORATE GHG EMISSIONS FOR 2016	6,022 tCO_{2e}

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

Reductions and Offsets	REDUCTIONS
Option 1 projects (energy efficient retrofits, solar thermal, household organics, low emission vehicles, avoided forest conversion, etc.)	0
Option 2 reduction projects	0
Offsets purchased	0
TOTAL B REDUCTIONS AND OFFSETS FOR 2016	0

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) = 6,022 tCO_{2e}

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

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 (ie: 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:

PROJECT NAME:
N/A

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:

Level 1 – Demonstrating Progress on Charter Commitments	
Level 2 – Measuring GHG Emissions	
Level 3 – Accelerating Progress on Charter Commitments	
Level 4 - Achievement of Carbon Neutrality	
Not Sure	X