2018

CLIMATE ACTION REVENUE INCENTIVE PROGRAM

The District of West Vancouver provides annual CARIP reports publicly as required by the Province of BC as part of our commitment to reduce corporate and community-wide energy consumption and greenhouse gas emissions (GHG). This report also summarizes local efforts to achieve carbon neutrality. CARIP PUBLIC REPORT

Local Government: District of West Vancouver

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WESTVANCOUVER.CA/CARIP



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2018 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, and centred) plays an especially important role in energy and GHG reduction.

Qe	Q 6 + Q 7 Community-Wide Broad Planning Actions Taken in 2018 + Additional Actions		
	Adopted Official Community Plan advancing energy and emissions plan priority actions		
	Continued Community Energy and Emissions Plan implementation		
	Identified future Local Area Plans		
	Applied Smart Growth principles to land use consideration along principal transit corridor		
	Proceeded with Upper Lands study to concentrate development and preserve forest lands		
Q	Q 8 Community-Wide Broad Planning Actions Proposed for 2019		
	Continue Community Energy and Emissions Plan implementation		
	Proceed with Horseshoe Bay Local Area Plan		
	Apply Smart Growth principles to land use consideration along principal transit corridor		
	Continue Upper Lands study to concentrate development and preserve forest land		
	Establish a Coastal Marine Management Plan working group to provide policy		
	recommendations on the management of our coast.		

Q	Q 9 + Q 10 Corporate Broad Planning Actions Taken in 2018 + Additional Actions		
	Facilities asset management planning is on-going.		
	Continue to implement the Corporate Energy and Emissions Plan		
Q	11 Corporate Broad Planning Actions Proposed for 2019		
	Facilities asset management planning is on-going.		
	Continue to implement the Corporate Energy and Emissions Plan		

Broad Planning		
Q 12 What is (are) your	33% reduction in corporate GHGs by 2020	
current GHG reduction target(s)?	40% reduction in community GHGs by 2040	
Q 13 Are you familiar with your local government's community energy and emissions inventory (e.g. <u>CEEI</u> or another inventory)?		<mark>Yes</mark> /No



Q 14 What plans, policies or guidelines govern the implementation of climate mitigation in your community?	
 Community Energy and Emissions Plan 	Yes/No
Integrated Community Sustainability Plan	Yes/ <mark>No</mark>
Community- Wide Climate Action Plan	<mark>Yes</mark> /No
Official Community Plan	<mark>Yes</mark> /No
Regional Growth Strategy	<mark>Yes</mark> /No
Do not have a plan	Yes/No
• Other:	Yes/No
Q 15 Does your local government have a corporate GHG reduction plan?	Yes/No

2018 BUILDING 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.

Q 16 + Q 17 Community-Wide Building and Lighting Actions Taken in 2018 + Additional Actions	
Adopted leading Energy Step Code requirements for new construction	
Amended Zoning Bylaw to remove barriers to high performance buildings and encourage	
retrofits of existing buildings	
Adopted Sustainable Buildings Policy directing rezoning applications to reach a higher	
step and provide EV and bicycle parking	
Reduced permit fee and expedited permitting for Passive House applications	
8 Community-Wide Building and Lighting Actions Proposed for 2019	
Consider low-carbon buildings through local area plans and climate change adaptation	
strategies	

Q 19 + Q 20 Corporate Building and Lighting Actions Taken in 2018 + Additional Actions

Upgraded various fixtures to LED in the following facilities: Ambleside Par 3, Aquatic Centre; WV Community Centre, Gleneagles Community Centre, Ice Arena, Operations Centre, Library, Seniors' Activity Centre

Replaced Ice Arena refrigeration plant with more efficient heat exchanger, chiller and variable speed compressors.



	Demolished caretaker facilities at Brissenden Park.		
	Decommissioned caretaker facilities at Whytecliff Park.		
	Upgrade to low-flow showerheads in changerooms to reduce hot water use.		
Q	Q 21 Corporate Building and Lighting Actions Proposed for 2019		
	Complete conversion of District-owned streetlights to LED.		
	Significant upgrades to Municipal Hall including new elevator, as well as energy efficient		
	HVAC, glazing system.		
	Replace roof top units at the Aquatic Centre and Seniors' Activity Centre.		
	Hot water tank upgrades at Civic Site, Fire Hall #4, Dundarave Preschool, Seniors'		
	Activity Centre.		
	Install heat exchanger to preheat pool water in the Aquatic Centre.		
	Demolish facilities that have reached their end of life: 2195 Haywood and 990 22nd		
	Street, Whytecliff Park Caretaker Facility, Youth Activity Centre.		
	Continue to upgrade various fixtures to LED in District buildings.		

Building and Lighting

The Province has committed to taking incremental steps to increase energy-efficiency requirements in the BC Building Code to make buildings net-zero energy ready by 2032. The BC Energy Step Code--a part of the BC Building Code--supports that effort

Q 22 Is your local government aware of the <u>BC Energy Step Code</u> ?	<mark>Yes</mark> /No
Q 23 Is your local government implementing the <u>BC Energy Step</u>	Yes/No
Code?	

P5 2018 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.

Q 24 + Q 25 Community-Wide Energy Generation Actions Taken in 2018 + Additional Actions

Reduced permit fee and introduced height exemption for solar energy systems



Q	26 Community-Wide Energy Generation Actions Proposed for 2019

Q	Q 27 + Q 28 Corporate Energy Generation Actions Taken in 2018 + Additional Actions		
	Eagle Lake turbine continues to feed electricity into the grid.		
Q	29 Corporate Energy Generation Actions Proposed for 2019		
	Eagle Lake turbine continues to feed electricity into the grid.		

Energy Generation	
Q 30 Is your local government developing, or constructing a	
district energy system	Yes/ <mark>No</mark>
 renewable energy system 	Yes/ <mark>No</mark>
none of the above	
Q 31 Is your local government operating a	
district energy system	<mark>Yes</mark> /No
renewable energy system	<mark>Yes</mark> /No
none of the above	
Q 32 Is your local government connected to a district energy system that is	Yes/ <mark>No</mark>
operated by another energy provider?	
Q 33 Are you familiar with the 2018 List of Funding Opportunities for Clean	Yes/No
Energy Projects Led by First Nations and Local Governments?	



2018 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.

	Q 34 + Q 36 Community-Wide Greenspace Actions Taken in 2018 + Additional Actions (Q 35 below Q 41)		
	Partnered formally with the Great Canadian Shoreline Cleanup as a Clean Shoreline Community.		
	Hosted a public beach cleanup event at a harder-to-access shoreline area near Whytecliff Park.		
0	7 Community Wide Organizations Dran cool for 2040		
Q,	37 Community-Wide Greenspace Actions Proposed for 2019		
	Host another 1-2 public beach cleanup events in partnership with Great Canadian Shoreline Clean-up		
	Continue to develop community partnerships to tackle invasive plants on public lands.		

Q	Q 38 + Q 39 Corporate Greenspace Actions Taken in 2018 + Additional Actions		
Q	40 Corporate Greenspace Actions Proposed for 2019		

Greenspace	
Q 41 Does your local government have urban forest policies, plans or	<mark>Yes</mark> /No
programs?	



2018 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.

Q 4	Q 42 + Q 43 Community-Wide Solid Waste Actions Taken in 2018 + Additional Actions		
	Planned expansion three-stream waste and recycling stations to all business districts to		
	launch in Spring 2019.		
	Continued to support and encourage residential waste diversion through recycling and		
	Green Can programs.		
	Continued separated dog waste collection service, formalized a dog waste collection		
	program strategic plan.		
	Continue to monitor demolition and land clearing debris produced in West Vancouver and		
	to encourage proper recycling of these materials by way of the Demolition and		
	Construction Recycling Report form (est. 2015).		
	On-going support for regional Metro Vancouver campaigns such as "Love Food, Hate		
	Waste" and "Food's Not Garbage"		
	Continued leadership in residential waste diversion.		
Q 4	4 Community-Wide Solid Waste Actions Proposed for 2019		
	Implement plan to replace district-owned garbage cans in business districts with 3-stream		
	recycling stations.		
	Partner with Ocean Ambassadors Canada and the Horseshoe Bay Business Association		
	on a voluntary single-use item reduction initiative.		
	Investigate other local opportunities to reduce single-use packaging items.		
	Host a Student Video Contest that encourages students K-12 to consider the topic: Bins		
	Don't Recycle, People Do. Students are encouraged to produce videos featuring tips on		
	correctly sorting recycling at home, but especially at school and in other public places.		
	Launch a waste sorting game (by ReCollect) called Waste Evaders as an engagement		
	tool to encourage proper sorting of waste at home, and in public spaces.		

Q	Q 45 + Q 46 Corporate Solid Waste Actions Taken in 2018 + Additional Actions		
	On-going operation of multi-stream recycling stations for staff and public in all District		
	facilities		
	On-going recycling opportunities for operational materials such as metal, oil, and park		
	greenwaste.		
	On-going on-site recycling process of construction fill for capital and operating projects.		
	Added opportunities to recycle polystyrene foam, film plastics and corroplast from a		
	central location at the Operations Centre.		



Q	Q 47 Corporate Solid Waste Actions Proposed for 2019		
	Initiate RFP for civic building garbage, organics and recycling collection to further improve		
	waste diversion, with new provider to begin service mid-2020.		

Solid Waste

Q 48 Does your local government have construction and demolition waste reduction policies, plans or programs?

Q 49 Does your local government have organics reduction/diversion policies, plans or programs?

2018 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 and public transit, can contribute to reductions in GHG emissions and more livable communities.

Q	Q 50 + Q 51 Community-Wide Transportation Actions Taken in 2018 + Additional		
Ac	Actions		
	Installation of DC fast charger for electric vehicles in Horseshoe Bay		
	Design Keith Rd – 3rd Street multi-use pathway connection		
	Nelson and St Georges pedestrian improvements – phase 2		
	Installation of speed humps to calm traffic and improve pedestrian safety around schools		
	Rockridge Secondary and Caulfeild Elementary pedestrian improvements		
	Corridor traffic calming and pedestrian crossing improvements on Fulton Ave and 21st St		
	On-going support for schools active transportation through School Traffic Safety Advisory		
	Committee		
	Initiated seniors active transportation promotion/education project with the Seniors'		
	Activity Centre (along with transit, ICBC), with partnership funding provided by TransLink.		
Q	52 Community-Wide Transportation Actions Proposed for 2019		
	Construct Keith Rd – 3rd Street multi-use pathway		
	Marine-Main B-Line rapid bus – Phibbs Exchange to Park Royal		
	Installation of new bike racks – Ambleside and Dundarave business areas		
	Construction of Horseshoe Bay Streetscape – improved facilities for walking and biking		
	Construction of Capilano Pacific Trail improvements for walking and cycling		
	Feasibility Study for Upper Levels Trail – east-west multi-use pathway		
	Design of Mathers Multi-use pathway		
	Launch of e-bike share system in partnership with City and District of North Vancouver		



Feasibility study for electric ferry service – Ambleside to Vancouver	
Feasibility study for Sea to Sky passenger rail – Ambleside to Squamish	
On-going support for schools active transportation through School Traffic Safety Advisor	
Committee, including new school mini-grant pilot to support school community programs.	
On-going support for seniors active transportation initiatives with the Seniors' Activity	
Centre. Pilot a 55+ Urban Explorers program to introduce seniors to their transit options.	
Centre. Pilot a 55+ Urban Explorers program to introduce seniors to their transit options	

Q !	Q 53 + Q 54 Corporate Transportation Actions Taken in 2018 + Additional Actions		
	On-going corporate support for staff participation in the BC Commuter Challenge and Bike to Work Week events.		
	Installation of 6 anti-idling modules in vehicles to cut down on unnecessary idling and reduce GHG emissions		
	Purchased a backhoe/loader equipped with a Tier 4 certified diesel engine.		
	Purchased an electric utility vehicle to replace a utility vehicle equipped with an internal combustion engine		
	Purchased of a mobile air compressor equipped with a Tier 4 certified diesel engine		
	Use of B10 biofuel for approx. 25% of diesel usage		
Q !	Q 55 Corporate Transportation - Actions Proposed for 2019		
	Install 6 additional anti-idling modules in vehicles to cut down on unnecessary idling and reduce GHG emissions		
	Acquisition of an electric utility vehicle to replace a utility vehicle equipped with an internal combustion engine		
	Continue use of B10 biofuel.		
	Formalizing greet fleet principals as part of corporate purchasing policy.		

Transportation	
Q 56 Does your local government have policies, plans or programs to	
support:	
Walking	<mark>Yes</mark> /No
Cycling	<mark>Yes</mark> /No
Transit Use	<mark>Yes</mark> /No
Electric Vehicle Use	<mark>Yes</mark> /No
Other (please specify)	
Q 57 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 behaviour)?	
Q 58 Does your local government integrate its transportation and land use planning?	<mark>Yes</mark> /No



2018 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 GHG emissions.

	Q 59 + Q 60 Community-Wide Water and Wastewater Actions Taken in 2018 + Additional Actions		
	Adopted a new Drinking Water Conservation Plan Bylaw that reflect changes included in Metro Vancouver's regional water conservation plan.		
	Promoted new seasonal watering restrictions, and enforced as required.		
	Completed Sewer Master Servicing Study including sewer pump station assessment		
	Implemented new 4-block metered pricing for residential customers, increased price differential between blocks for higher consumers, and separated bill line items for local and regional sewer costs.		
	Sponsored two school programs promoting efficient use of water:		
	1. Climate Change Showdown in 6 classrooms		
	2. DreamRider Productions H2-Whoa! Water conservation plays in 6 schools		
	Continued to support BC Hydro's Efficient Appliance Rebate program for high-efficiency		
	clothes washers.		
	On-going requirement to provide stormwater management plans with new developments		
	On-going support for regional Metro Vancouver campaigns such as "I Love Water" and the "Unflushables".		
Qe	61 Community-Wide Water and Wastewater Actions Proposed for 2019		
	Promote seasonal watering restrictions, and enforce as required.		
	Continue to support BC Hydro's Efficient Appliance Rebate program for high-efficiency clothes washers.		
	On-going support for regional Metro Vancouver campaigns such as "I Love Water" and the "Unflushables".		
	Tighten Leak Adjustment policy to better encourage property owners to more promptly find and address leaks on their property, reflecting the water conservation ethic of West Vancouver.		
	On-going requirements to provide stormwater management plans with new developments		

Q 62 + Q 63 Corporate Water and Wastewater Actions Taken in 2018 + Additional Actions

Installation of low-flow showerheads in WV Community Centre changerooms.



64 Corporate Water and Wastewater Actions Proposed for 2019
(

Water Conservation

Q 65 Does your local government have water conservation policies, plans or programs?

Yes/No

2018 CLIMATE CHANGE ADAPTATION ACTIONS

This section of the CARIP survey is designed to collect information related to the types of climate impacts local governments are experiencing and how they are being addressed.

Q 66 Please identify the THREE climate impacts that are most relevant to your Local Government.		
Warmer winter temperatures reducing snowpack		
 Changes to temperature and precipitation causing seasonal drought 		
 Heatwaves impacting population health 		
 Increased temperatures increasing wildfire activity 		
 Increased temperatures affecting air quality 		
 Changing temperatures influencing species migration and ecosystem shifts 		
Changing temperatures influencing ecosystem shifts		
Extreme weather events contributing to urban and overland flooding		
 Sea level rise and storms causing coastal flooding and/or erosion 		
Other (please specify):		
Q 67 In 2018 has your local government addressed the impacts of a changing	g climate	
using any of the following?		
Risk and Vulnerability Assessments	Yes/No	
Risk Reduction Strategies	Yes/No	
Emergency Response Planning	Yes/No	
Asset Management	<mark>Yes</mark> /No	
Natural/Eco Asset Management Strategies	Yes/No	
Infrastructure Upgrades (e.g. stormwater system upgrades)	Yes/No	

- Infrastructure Upgrades (e.g. stormwater system upgrades) Beach Nourishment Projects
- Economic Diversification Initiatives
- Strategic and Financial Planning

Yes/No

Yes/No

Yes/No



Cross-Department Working Groups	<mark>Yes</mark> /No
Official Community Plan Policy Changes	<mark>Yes</mark> /No
Changes to Zoning and other Bylaws and Regulations	<mark>Yes</mark> /No
Incentives for Property Owners (e.g. reducing storm water run-off)	Yes/No
Public Education and Awareness	<mark>Yes</mark> /No
Research	<mark>Yes</mark> /No
Mapping	<mark>Yes</mark> /No
Partnerships	<mark>Yes</mark> /No
Other (please specify):	

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Q 69 Climate Change Adaptation Actions Proposed for 2019		
roject		
Q 70 For more information please contact		



Q 71. The following are key resources that may be helpful to your local government in identifying	
climate impacts, as well as, strategies, actions and funding to deal with them. For those resources that	
you have used, please indicate whether they were useful in advancing you	ur work in climate change
adaptation?	
Indicators of Climate Change for British Columbia	<mark>Useful</mark>
Plan2Adapt	<mark>Useful</mark>
Climate Projections for Metro Vancouver	Useful
Climate Projections for the Capital Region	Haven't Used
Climate Projections for the Cowichan Valley Regional District	Haven't Used
Province of BC's BC Adapts Video Series	Haven't Used
Preparing for Climate Change: Implementation Guide for Local Governments	Useful
Public Infrastructure and Engineering Vulnerability Committee's (PIEVC)	Haven't Used
Sea Level Rise Adaptation Primer	Useful
BC Regional Adaptation Collaborative Webinars	<mark>Haven't Used</mark>
Retooling for Climate Change	Haven't Used
Water Balance Model	Useful
Water Conservation Calculator	<mark>Useful</mark>
Funding:	Useful
National Disaster Mitigation Program (NDMP)	Useful
Community Emergency Preparedness Fund (CEPF)	Useful
Municipalities for Climate Innovation Program (MCIP)	Useful
Climate Adaptation Partner Grants (FCM)	
Infrastructure Planning Grants (MAH)	<mark>Useful</mark>
Federal Gas Tax Fund	
O(t) = r(r) = cr(r)	
Other (please specify)	

2018 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.

Q 7	72 Community-Wide Other Actions Taken in 2018
Q7	73 Corporate Other Actions Taken in 2018



Other	
Q 74 Are you familiar with the <u>Community Lifecycle Infrastructure Costing</u> <u>Tool (CLIC)</u> ?	<mark>Yes</mark> /No
Q 75 Is your local government using the <u>CLIC</u> tool?	<mark>Yes</mark> /No

INNOVATION AND PEER-TO-PEER LEARNING

Innovation

This section provides the opportunity to showcase an innovative *Corporate and/or Community-Wide* GHG reduction and/or climate change adaptation activity that your local government has undertaken and that has had, or has the potential to have, a significant impact. You are welcome to highlight an action that has already been listed.

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

Communities that have conducted innovative initiatives may want to consider making applications to <u>CEA's Climate and Energy Action Awards</u>, <u>FCM Sustainable Communities</u> <u>Awards</u> or to <u>FCM's National Measures Report</u>.

Q 76 Community-Wide Innovation	Action
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Q 77 Corporate Innovation Action

Q 78 For more information on actions described above contact

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 separated by a forward slash (e.g. program1/program2).

Mitigation



Q 79 Mitigation Programs, Partnerships and Funding

- ICBC and TransLink funding for transportation-related improvements and education initiatives.
- BC Hydro and Fortis BC have supported corporate energy management projects.
- BC government provided incentive for purchase of low emission vehicle

Adaptation

Q 80 Adaptation Programs, Partnerships and Funding

- North Shore Sea Level Rise Risk Assessment & Adaptive Management strategy project is a partnership between West Vancouver, the City and District of North Vancouver as well as Port of Vancouver and the Squamish Nation.
- The District has entered into an agreement with British Pacific Properties (BPP) to co-fund the Five Creeks Flood Protection project.



2018 CARBON NEUTRAL REPORTING

Local governments are required to report on their progress in achieving their carbon neutral goal under the <u>B.C. Climate Action Charter</u>. 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 portion of the survey, please ensure that you are familiar with guidance available on the <u>B.C. Climate Action Toolkit website</u>, especially the <u>Workbook</u> and <u>Becoming</u> <u>Carbon Neutral: A Guide for Local Governments in British Columbia.</u>

Please note: As a result of the BC Recycling Regulation, local governments are no longer required to account for GHG emissions from vehicles, equipment and machinery required for the collection, transportation and diversion of packaging and printed paper, in their annual Climate Action Revenue Incentive Program (CARIP) reports.

Reporting Emissions

Q 81 Did your local government measure corporate GHG emissions for 2018?	<mark>Yes</mark> /No
Q 82 If your local government measured 2018 corporate GHG emissions, please report the number of corporate GHG emissions from services delivered directly by your local government (in tonnes of carbon dioxide equivalent)	2644 tCO2e
Q 83 If your local government measured 2018 corporate GHG emissions, please report the number of corporate GHG emissions from contracted services (in tonnes of carbon dioxide equivalent)	564 tCO2e
Q 84 TOTAL A: CORPORATE GHG EMISSIONS FOR 2018 (Direct GHGs + Contracted GHGs)	3208 tCO2e

Reporting Reductions and Offsets

To be carbon neutral, a local government must balance their TOTAL corporate GHG emissions generated in 2018 by one or a combination of the following actions:

- undertake GCC-supported Option 1 Project(s)
- undertake GCC-supported Option 2 Project(s)
- purchase carbon offsets from a credible offset provider



For more information about options to balance or offset corporate GHG emissions please refer to <u>Becoming Carbon Neutral: A Guidebook for Local Governments in British Columbia.</u>

If applicable, please report the 2018 GHG emissions reductions (in tonnes of carbon dioxide equivalent (tCO2e)) being claimed from any of the following Option 1 GHG Reduction Projects:

OPTION 1 PROJECTS	REDUCTIONS
Q 85 Energy Efficient Retrofits (in tonnes of carbon dioxide equivalent (tCO2e))	
Q 86 Solar Thermal (in tonnes of carbon dioxide equivalent (tCO2e))	
Q 87 Household Organic Waste Composting (in tonnes of carbon dioxide equivalent (tCO2e))	404 tCO2e
Q 88 Low Emission Vehicles (in tonnes of carbon dioxide equivalent (tCO2e))	
Q 89 Avoided Forest Conversion (in tonnes of carbon dioxide equivalent (tCO2e))	749 tCO2e + 2055 tCO2 (from bank) = 2804 tCO2e TOTAL
Q 90 TOTAL B: REDUCTIONS FROM ALL OPTION 1 PROJECTS FOR	3208 tCO2e
2018	

Q 91 If applicable, please report the names and 2018 GHG emissions reductions (in tonnes of carbon dioxide equivalent (tCO2e)) being claimed from Option 2 GHG Reduction Projects:

Option 2 Project Name	REDUCTIONS
Option 2 GHGs Reduced (tCO2e)	
Option 2 Project Name	
Option 2 GHGs Reduced (tCO2e)	



Option 2 Project Name	
Option 2 GHGs Reduced (tCO2e)	
Q 92 TOTAL C: REDUCTIONS FROM ALL OPTION 2 PROJECTS FOR	0 tCO2e
2018	

Offsets

Q 93 If applicable, please report the name of the offset provider, type of project and number of offsets purchased (in tonnes of carbon dioxide equivalent (tCO2e)) from an offset provider for the 2018 reporting year:

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

Offset Provider Name	OFFSETS
Offsets (tCO2e)	
Offset Provider Name	
Offsets (tCO2e)	
Q 94 TOTAL D: OFFSETS PURCHASED FOR 2018	0 tCO2e

Q 95 TOTAL REDUCTIONS AND OFFSETS FOR 2018 (Total B+C+D) = <u>3208 tCO2e</u>

Corporate GHG Emissions Balance for 2018

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

Q 96 CORPORATE GHG EMISSIONS BALANCE FOR 2018 = (A – (B+C+D)) = 0 tCO2e

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



Q 97 If your local government was carbon neutral in 2018, please record any emissions reductions you will be carrying over for future years and the source of the reductions, including the year they were earned (e.g. organics diversion, 2018 100 tCO2e)

SOURCE OF CARRY OVER EMISSION REDUCTIONS (and year earned)	REDUCTIONS
Avoided forest conversion (Carried over for 2018)	5998 tCO2e
Q 98 BALANCE OF REDUCTIONS ELIGIBLE FOR CARRY OVER TO NEXT YEAR	3943 tCO2e

Carbon Neutral Reporting	
Q 99 Does your local government set aside funds in a climate reserve fund or similar?	Yes/ <mark>No</mark>



GCC CLIMATE ACTION RECOGNITION PROGRAM

Green Communities Committee 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 – 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 their community's energy and emissions inventory (i.e. 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 (e.g. 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.

Q 100 Based on your local government's 2018 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	Х
Not Sure	

Q 101 Related to 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 and/or financial resources and is intended to result in significant GHG reductions:

PROJECT NAME: