



Climate Action Revenue Incentive (CARIP) Public Report for 2018

Local Government: City of Parksville

Report Submitted by:

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The City of Parksville has completed the 2018 Climate Action Revenue Incentive Program (CARIP) Public Report as required by the Province of BC. The CARIP report summarizes actions taken in 2018 and proposed for 2019 to reduce corporate and community-wide energy consumption and greenhouse gas emissions (GHG) and reports on progress towards achieving carbon neutrality.

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.

Q 6 + Q 7 Community-Wide Broad Planning Actions Taken in 2018 + Additional Actions	
	City of Parksville's OCP has broad planning policies and regulations.
Q 8 Community-Wide Broad Planning Actions Proposed for 2019	
	City of Parksville's OCP has broad planning policies and regulations.

Q 9 + Q 10 Corporate Broad Planning Actions Taken in 2018 + Additional Actions	
	Community Park Master Plan adopted with recommendations for actions to be implemented within a five-year timeframe.
	Extensive community consultation regarding the development of the Parks, Trails and Open Spaces Master Plan.
Q 11 Corporate Broad Planning Actions Proposed for 2019	
	Adoption of Parks, Trails and Open Spaces Master Plan.

Broad Planning	
Q 12 What is (are) your current GHG reduction target(s)?	To reduce per capita GHG emissions by 33% of 2007 levels by year 2020

Q 13 Are you familiar with your local government's community energy and emissions inventory (e.g. CEEI or another inventory)?	Yes
Q 14 What plans, policies or guidelines govern the implementation of climate mitigation in your community?	
<ul style="list-style-type: none"> • Community Energy and Emissions Plan • Integrated Community Sustainability Plan • Community- Wide Climate Action Plan • Official Community Plan • Regional Growth Strategy • Do not have a plan • Other: 	Yes No No Yes Yes No Yes/No
Q 15 Does your local government have a corporate GHG reduction plan?	Yes

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	
	Continued LED Street light replacement plan
Q 18 Community-Wide Building and Lighting Actions Proposed for 2019	
	Continue LED Street light replacement plan

Q 19 + Q 20 Corporate Building and Lighting Actions Taken in 2018 + Additional Actions	
	Installed automated front doors to City Hall/shared building to increase accessibility.
	Converted all lights on outside of City Hall/ shared building to LED
	Ongoing light replacements in interior of City Hall/shared building converted to LED
	Turned standard heat setting in City Hall/shared building down 2 degrees to conserve energy

Q 21 Corporate Building and Lighting Actions Proposed for 2019	

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 BC Energy Step Code?	Yes
Q 23 Is your local government implementing the BC Energy Step Code?	No

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	
Q 26 Community-Wide Energy Generation Actions Proposed for 2019	

Q 27 + Q 28 Corporate Energy Generation Actions Taken in 2018 + Additional Actions	
Q 29 Corporate Energy Generation Actions Proposed for 2019	

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

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)	
	Planted drought-resistant trees and plants
	Kept tree canopies in place and planted more than 1600 trees in community parks
	Provided land for community garden.
	Provided lease that facilitates provision of space for weekly farmers market.
Q 37 Community-Wide Greenspace Actions Proposed for 2019	
	Work with Mid-Vancouver Island Habitat Enhancement Society re steam restoration and planting, including providing signage.
	Continue to support community garden and farmers' markets activities.

Q 38 + Q 39 Corporate Greenspace Actions Taken in 2018 + Additional Actions	
	Actively managed invasive species in parks and worked with Coastal Invasive Species Committee to remove Japanese Knotwood and Giant Hogweed.
	Worked with Broombusters to determine locations to cut broom and provide support by picking up piles of cut broom within the City.
Q 40 Corporate Greenspace Actions Proposed for 2019	
	Develop Tree Policy and tree rebate program.
	Restorative planting in Parksville Wetlands Park
	Complete tree inventory (Parks)

Greenspace	
Q 41 Does your local government have urban forest policies, plans or programs?	Yes
Q 35. Does your local government have policies, plans or programs to support local food production?	Yes

2018 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 42 + Q 43 Community-Wide Solid Waste Actions Taken in 2018 + Additional Actions	
	Participated in regional organic waste collection program (Regional District of Nanaimo).
Q 44 Community-Wide Solid Waste Actions Proposed for 2019	
	Continue to participate in regional Solid waste function (Regional District of Nanaimo).

Q 45 + Q 46 Corporate Solid Waste Actions Taken in 2018 + Additional Actions	
Q 47 Corporate Solid Waste Actions Proposed for 2019	

Solid Waste	
Q 48 Does your local government have construction and demolition waste reduction policies, plans or programs?	Yes
Q 49 Does your local government have organics reduction/diversion policies, plans or programs?	Yes

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 50 + Q 51 Community-Wide Transportation Actions Taken in 2018 + Additional Actions	
	Participated in regional bus service (with Regional District of Nanaimo).
	Continued planning for rails to trails projects.
	Participated in community Accessibility Program and used budget allocation to address issues identified – actions resulting from these included inclusion of audible crossing signals and sidewalk letdowns in transportation infrastructure projects.
	Constructed multi-use Jensen Greenway corridor.
	Constructed Eagleview Trail.
	Installed additional bike racks in City parks.
	Attended School District Parent Advisory Committee meetings to liaise with schools regarding safe transportation – actions resulting from these included new parking signs installed and enforced and new flashing pedestrian lights at crossing.
Q 52 Community-Wide Transportation Actions Proposed for 2019	
	Install 2 new transit shelters.
	Design Rath Trevor Greenway providing 1.0 kms of additional multi-use trail.
	Design 900 m multi-use corridor between Resort Way and Pioneer Cres. (working with Province)
	Participate in community Accessibility Program and Safe Routes to School programs

Q 53 + Q 54 Corporate Transportation Actions Taken in 2018 + Additional Actions	
	Bike lanes incorporated into infrastructure upgrades.
	Used 3 shared electric vehicles for local corporate travel.
	Added 2200 m of new sidewalks in the City
Q 55 Corporate Transportation - Actions Proposed for 2019	
	Continue to use shared electric vehicles and look for other energy efficiencies in fleet replacement.
	Upgrade sections of roads to new urban local road standard to include shared bicycle use, mountable curbs and sidewalk
	Develop Community Park transportation plan.
	Review and reallocate corporate fleet resources to meet demands without increasing fleet inventory.

Transportation	
Q 56 Does your local government have policies, plans or programs to support: <ul style="list-style-type: none"> • Walking • Cycling • Transit Use • Electric Vehicle Use • Other (please specify) 	Yes Yes Yes Yes Yes/No
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)?	Yes
Q 58 Does your local government integrate its transportation and land use planning?	Yes

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	
<input type="checkbox"/>	Educated community about seasonal water conservation program.
<input type="checkbox"/>	Participated in drinking water and watershed protection program.
<input type="checkbox"/>	Provided rain barrel and low flush toilet rebates.
<input type="checkbox"/>	Considered climate change impacts in planning for storm water management.
<input type="checkbox"/>	
Q 61 Community-Wide Water and Wastewater Actions Proposed for 2019	
<input type="checkbox"/>	Continue to provide education about seasonal water conservation program.
<input type="checkbox"/>	Continue to participate in drinking water and watershed protection program.
<input type="checkbox"/>	Continue to provide rain barrel and low flush toilet rebates.
<input type="checkbox"/>	
<input type="checkbox"/>	

Q 62 + Q 63 Corporate Water and Wastewater Actions Taken in 2018 + Additional Actions	
<input type="checkbox"/>	Continued use of tiered water consumption rates for water user invoicing.
<input type="checkbox"/>	Used gator bags and a surfactant on large fields to reduce water consumption by about 20% during hot summer season.
<input type="checkbox"/>	
<input type="checkbox"/>	
<input type="checkbox"/>	

Q 64 Corporate Water and Wastewater Actions Proposed for 2019	
	Complete construction of water treatment plant in partnership with Regional District of Nanaimo.
	Develop a Community Park Storm Water Management Plan.
	Replace culverts in Craig Creek, a fish bearing stream, by increasing size of culverts to meet current hydro-technical guidelines and facilitate environmental monitoring.
	Install VFDs in Waste Water Pumping Stations to reduce energy consumption.
	Consider the use of trenchless technology in infrastructure upgrades (e.g. Memorial Avenue)

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

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.	
<ul style="list-style-type: none"> • 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 climate using any of the following?	
Risk and Vulnerability Assessments	Yes
Risk Reduction Strategies	Yes
Emergency Response Planning	Yes
Asset Management	Yes
Natural/Eco Asset Management Strategies	Yes
Infrastructure Upgrades (e.g. stormwater system upgrades)	Yes
Beach Nourishment Projects	Yes
Economic Diversification Initiatives	No
Strategic and Financial Planning	Yes

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

Q 68 Climate Change Adaptation Actions Taken in 2018	
Please elaborate on key actions and/or partnerships your local government has engaged in to prepare for, and adapt to a changing climate. Add links to key documents and information where appropriate.	
	Continued construction of water treatment plant in partnership with Regional District of Nanaimo.
	Participated in Regional Water Smart program.
	Participated in Regional Liquid Waste Management initiatives/efforts.
	Regional partnerships, including Englishman River Water Service and Arrowsmith Water Service, bring together Regional District of Nanaimo, Town of Qualicum Beach and City of Parksville to address climate change
	Continued asset management efforts to maximize life of infrastructure.
Q 69 Climate Change Adaptation Actions Proposed for 2019	
	Complete construction of water treatment plant in partnership with Regional District of Nanaimo.
	Participate in Regional Water Smart Program
	Participate in Regional Liquid Waste Management initiatives/efforts
Q 70 For more information please contact	
	Vaughn Figueira, City of Parksville Director of Operations

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 your work in climate change adaptation?	
Indicators of Climate Change for British Columbia Plan2Adapt Climate Projections for Metro Vancouver Climate Projections for the Capital Region Climate Projections for the Cowichan Valley Regional District Province of BC's BC Adapts Video Series Preparing for Climate Change: Implementation Guide for Local Governments Public Infrastructure and Engineering Vulnerability Committee's (PIEVC) Sea Level Rise Adaptation Primer BC Regional Adaptation Collaborative Webinars Retooling for Climate Change Water Balance Model Water Conservation Calculator Funding: National Disaster Mitigation Program (NDMP) Community Emergency Preparedness Fund (CEPF) Municipalities for Climate Innovation Program (MCIP) Climate Adaptation Partner Grants (FCM) Infrastructure Planning Grants (MAH) Federal Gas Tax Fund	Haven't Used Haven't Used Not Useful Not Useful Not Useful Haven't Used Haven't Used Haven't Used Useful Haven't Used Useful Useful Haven't Used Useful Useful Useful Useful Useful Useful
Other (please specify)	

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

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
LED Streetlight replacement – Gas Tax Jensen Greenway – BC Bikes Grant

Adaptation

Q 80 Adaptation Programs, Partnerships and Funding
Funding for Englishman River Water Service water treatment plant – New Building Canada Fund (Small Communities Fund) and Clean Water and Wastewater Fund

2018 CARBON NEUTRAL REPORTING

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

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?	Yes
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)	324.93
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)	
Q 84 TOTAL A: CORPORATE GHG EMISSIONS FOR 2018 (Direct GHGs + Contracted GHGs)	324.93 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 [Becoming Carbon Neutral: A Guidebook for Local Governments in British Columbia](#).

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))	460.2
Q 88 Low Emission Vehicles (in tonnes of carbon dioxide equivalent (tCO₂e))	
Q 89 Avoided Forest Conversion (in tonnes of carbon dioxide equivalent (tCO₂e))	

Q 90 TOTAL B: REDUCTIONS FROM ALL OPTION 1 PROJECTS FOR 2018	460.2 tCO₂e
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Q 95 TOTAL REDUCTIONS AND OFFSETS FOR 2018 (Total B+C+D) = 460.2 tCO₂e

Corporate GHG Emissions Balance for 2018

Your local government's Corporate GHG Emissions Balance is the difference between total corporate offsettable 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)) = -135.27 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
Organics diversion, 2018	135.27 tCO₂e
Q 98 BALANCE OF REDUCTIONS ELIGIBLE FOR CARRY OVER TO NEXT YEAR	135.27 tCO₂e

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

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:

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