

Survey Template

For the *2017 CARIP Climate Action/Carbon Neutral Progress Survey*

Local governments are required to submit the *2017 CARIP Climate Action/Carbon Neutral Progress Survey* on or before June 1, 2018.

Use Template to Collect Information

In response to local government input, this Survey Template has been created to assist with collecting information for the *2017 CARIP Climate Action/Carbon Neutral Progress Survey*, and follows the same structure as the survey.

Responses entered into this Template can be cut and pasted into the online survey. The survey asks for up to five actions in each category, and there is a place in the survey to report additional actions if desired. In this Template, simply add more lines to the tables to report more than five actions.

Use Template to Assist with Reporting

Local governments are also required to publicly report the information submitted in the *2017 CARIP Climate Action/Carbon Neutral Progress Survey*. There is no ability for survey respondents to generate a report of survey responses, in turn:

- A PDF copy of your survey responses will be sent to you once your completed survey has been submitted.
- Given that it is challenging to edit the PDF document, you are encouraged to use your populated version of this Template, or your own, to report your CARIP results publicly.
- You may also choose to create a report in another format that contains the information submitted in the *2017 CARIP Climate Action/Carbon Neutral Progress Survey*.

Further information on CARIP can be found on the [Ministry of Municipal Affairs and Housing website](#).

The Government of BC will not collect, use, or disclose personal information using SurveyMonkey®. Please be aware however that IP addresses are collected by SurveyMonkey® itself, and these IP addresses and other information collected will be stored on SurveyMonkey®'s servers located outside of Canada. Please do not provide any third-party information (i.e. refer to others) in your responses to the survey.

Climate Action Revenue Incentive (CARIP) Public Report for 2017

Local Government: Powell River Regional District

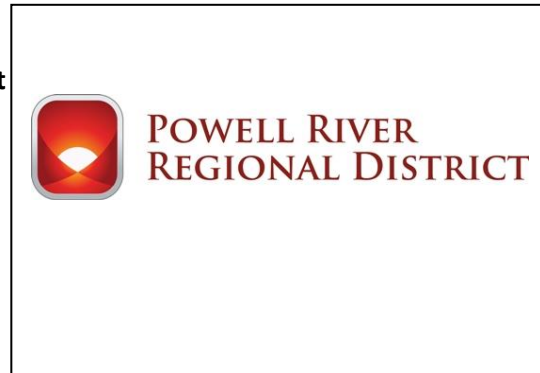
Report Submitted by:

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Date: May 18, 2018

The [insert Local Government here] has completed the 2017 Climate Action Revenue Incentive Program (CARIP) Public Report as required by the Province of BC. The CARIP report summarizes actions taken in 2017 and proposed for 2018 to reduce corporate and community-wide energy consumption and greenhouse gas emissions (GHG) and reports on progress towards achieving carbon neutrality.

2017 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 2017	
	Electoral Area D (Texada Island) Official Community Plan review and update continued through 2017 and included a review of climate change policies, GHG emission reduction targets and GHG emission reduction actions to be developed through community engagement.
Community-Wide Actions Proposed for 2018	
	Electoral Area D (Texada Island) Official Community Plan review and update will continue through 2018 and include an update of climate change policies, GHG emission reduction targets and GHG emission reduction actions to be developed through community engagement with bylaw adoption anticipated before the end of the year.

Corporate Actions Taken in 2017	
	The PRRD hired GHG Accounting to work with staff on the development of a GHG Reduction Strategy.
Corporate Actions Proposed for 2018	
	PRRD staff continues to work with GHG Accounting to complete the GHG Reduction Strategy in 2018. The reduction strategy will include 2 projects that will take the PRRD to carbon neutrality proposed 2019 and 2020.

Broad Planning		
What is (are) your current GHG reduction target(s)?	<p>GHG reduction targets are set out in each of the Powell River Regional District Official Community Plan (OCP) Bylaws.</p> <ol style="list-style-type: none"> 1) Targets in the Electoral Area A OCP include: reduce GHG emissions by 33% by the year 2020; and increase ridership on regional transit. 2) Targets in the Electoral Area B OCP include: reduce vehicular CO2 emissions by 10% by 2021; and focus 50% of all new housing units within the Myrtle Pond service area. 3) Targets in the Electoral Area C OCP include: reduce vehicular CO2 emissions by 10% by 2021; and focus 50% of all new housing units within the community nodes of Black Point and Lang Bay. 4) Targets in the Savary Island OCP include: reduce GHG emissions through reduced fossil fuel consumption and shift to alternative forms of energy; and reduce GHG emissions by 33% by the year 2020. 5) Targets in the Texada Island OCP include: meet or beat the provincial target to reduce GHG emissions by 33% by the year 2020. 	
Are you familiar with your community's community energy and emissions inventory (e.g. CEEI or another inventory)?		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 • Community- Wide Climate Action Plan • Integrated Community Sustainability Plan • Official Community Plan (OCP) • Regional Growth Strategy (RGS) • Do not have a plan • Other: 	<p>No</p> <p>No</p> <p>No</p> <p>Yes</p> <p>No</p> <p>No</p> <p>No</p>
Does your local government have a corporate GHG reduction plan?		Yes

2017 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.

Community-Wide Actions Taken in 2017	
	Upgraded gas furnace at the Lund Community Hall to a more energy efficient model
	Budgeted LED lighting for the Gillies Bay Community Hall
	Upgraded the Mausoleum gas furnace
	Sourced local wood and installed green living roofs on the Palm Beach Pavilion and the Compost building.
Community-Wide Actions Proposed for 2018	
	Install LED lighting at the Gillies Bay Community Hall
	Texada Medical Centre; install touchless facets, install ductless heating pump

Corporate Actions Taken in 2017	
Corporate Actions Proposed for 2018	
	Installed a shower room in the PRRD office unit 105 so staff can choose active transportation to and from work and dress appropriately for work.

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	
Is your local government aware of the BC Energy Step Cost?	Yes
Is your local government implementing the BC Energy Step Code?	Yes

2017 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.

Community-Wide Actions Taken in 2017	
Community-Wide Actions Proposed for 2018	

Corporate Actions Taken in 2017	
Corporate Actions Proposed for 2018	

Energy Generation	
Is your local government developing, or constructing:	
• A district energy system	No
• A renewable energy system	No
Is your local government operating:	
• A district energy system	No
• A renewable energy system	No
Is your local government connected to a district energy system that is operated by another	No

energy provider?	
Are you aware of the Integrated Resource Recovery guidance page on the BC Climate Action Toolkit ?	Yes
Are you familiar with the 2017 “ List of Funding Opportunities for Clean Energy Projects Led by First Nations and Local Governments? ”	Yes

2017 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 2017	
	Marine Avenue Closure Plan implementation (beginning)
	Rossander Park creation
	Divers Rock Park creation
	End of the Road Park creation
Community-Wide Actions Proposed for 2018	
	Protection of creek and riparian area with fish connectivity at the Marine Avenue Closure site

Corporate Actions Taken in 2017	
Corporate Actions Proposed for 2018	

Greenspace	
Does your local government have urban forest policies, plans or programs?	No
Does your local government have policies, plans or programs to support local food production?	Yes

2017 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 2017	
	Continued the Organics diversion pilot program started in 2016 with collection ramping up to 30 tonnes per month diverted from the waste stream to the production of quality soils. Added the yard and garden organic material to organics program reducing backyard open burning.
	Supported 5 illegal dumping collection events inclusive of coastline cleanups. Worked with volunteer groups to organize collection streams, containers, transportation, recycling and residual waste costs.
Community-Wide Actions Proposed for 2018	
	Support 5 illegal dumping collection events inclusive of coastline cleanups. Worked with volunteer groups to organize collection streams, containers, transportation and cover costs of recycling and residual waste.

Corporate Actions Taken in 2017	
	Implemented a PRRD organics / composting office program inclusive of paper towel use.
	Advised MOE that the PRRD will be closing the Lasqueti Island Landfill in 2021
	Completed and submitted the Solid Waste Management Plan as well as Lasqueti Island Sub Plan
Corporate Actions Proposed for 2018	
	Completed the PRRD Zero Waste Event Kit inclusive of dishes, cutlery, cups and a mobile commercial dishwasher. Dishwasher is an energy efficient low water use unit.
	Purchased a "Burn Boss" Aircurtain Burner for low emission burning of invasive species.

	Lasqueti Island Landfill Closure Action Plan Lasqueti Island Landfill Environmental Monitoring Plan
	Lasqueti Island Recycling Centre Upgrades to provide for cleaner collection (contaminate free) of recyclable materials. Upgrades will potentially allow for the Island to be eligible for the Recycle BC Program.

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?	Yes

2017 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 2017	
	Savary Island “Bike Racks, Pedestrian Way and Wharf shed waiting room”. This was to promote active transportation to and from the Savary Island Wharf facility which provides access to and from the island.
	Completed last phase of the Padgett Road Bike Path connecting Hwy 101 with the City of Powell River offering safe active transportation corridor to and from the rural area.
Community-Wide Actions Proposed for 2018	
	Surveying and planning process to connect the Padgett Road Bike Pedestrian corridor to Myrtle Creek Estates and Southill Estates.

Corporate Actions Taken in 2017	
	PRRD organization wide bike or walk to work week
	Purchase of Hyundai Ioniq Hybrid pooled vehicle for the PRRD staff to use as a run about and to go

	to events, and learning sessions.
Corporate Actions Proposed for 2018	
	PRRD organization wide bike or walk to work week May 28 to June 3 rd .

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)	No
Does your local government have a transportation demand management (TDM) strategy (e.g. to reduce single-vehicle occupancy trips, increase travel options, provide incentives to encourage individuals to modify travel behavior)?	No
Does your local government integrate its transportation and land use planning?	Yes

2017 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 2017	
	Lund Sewer Facility upgrades. Includes: - eliminating sea water infiltration and ground water infiltration to reduce; pumping run time, effluent, treatment plant corrosion and volume. - improved treatment of effluent -building resilience into the system with backup power systems.
	Hired consultant to identify, catalogue and register all PRRD owned wells
Community-Wide Actions Proposed for 2018	
	Regional Water Study

Corporate Actions Taken in 2017	
Corporate Actions Proposed for 2018	

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

2017 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.

Please identify the THREE climate impacts that are most relevant to your Local Government.	
<ul style="list-style-type: none"> • Changes to temperature and precipitation causing seasonal drought • Extreme weather events contributing to urban and overland flooding • Sea level rise and storms causing coastal flooding and/or erosion 	
Other:	

In 2017 has your local government addressed the impacts of a changing climate using any of the following?

Risk and Vulnerability Assessments	Yes
Risk Reduction Strategies	No
Emergency response planning	Yes
Asset management	Yes
Natural/Eco asset management strategies	No
Infrastructure upgrades (e.g. storm water system upgrades)	Yes
Beach Nourishment projects	No
Economic diversification initiatives	No
Strategic and financial planning	Yes
Cross-department working groups	Yes
OCP policy changes	Yes
Changes to zoning and other bylaws and regulations	Yes
Incentives for property owner (e.g. reducing storm water run-off)	No
Public education and awareness	Yes
Research	Yes
Mapping	Yes
Partnerships	Yes
Other: Green Shores educational and planning process with one potential project implementation in 2018	

Climate Change Adaptation Actions Taken in 2017	
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.	
	Completed Overview Coastal Risk Assessment in partnership with City of Powell River and Tla'amin Nation to support resiliency planning, policy development, and community engagement.
	Completed Drainage Study in partnership with provincial Ministry of Transportation and Infrastructure to support resiliency planning, policy development, and community engagement.
	Continued collaborative partnerships with Stewardship Centre for BC (Green Shores Program) and UBC (Marine Transportation Project) through 2017 to support resiliency planning, policy development, and community engagement.
	Included Natural Assets within the Asset Management Planning Policy to be identified, located and measured.
Climate Change Adaptation Actions Proposed for 2018	
	Secure funds to complete Coastal Risk Assessment Mapping in partnership with City of Powell River and Tla'amin Nation to further support resiliency planning, policy development, and community engagement.
	Continue to learn about and promote approaches to climate change adaptation across the region through collaborative partnerships formed with Stewardship Centre for BC (Green Shores Program) and UBC (MEOPAR Program).

For more information please contact:	

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, 2016 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: An Implementation Guide for Local Governments The Public Infrastructure and Engineering Vulnerability Committee's (PIEVC) protocol Sea Level Rise Primer BC Regional Adaptation Collaborative Webinars www.ReTooling.ca Water Balance Model The 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	Useful Useful Not Useful Not Useful Not Useful Useful Useful Haven't Used Useful Useful Useful Haven't Used Haven't Used Useful Useful Useful Haven't Used Useful Useful
Other:	

2017 OTHER CLIMATE ACTIONS

Other Climate Actions

This section provides local governments the opportunity to report other climate actions that are not captured in the categories above.

Community-Wide Actions Taken in 2017	

Community-Wide Actions Proposed for 2017	

Corporate Actions Taken in 2017	
Corporate Actions Proposed for 2017	

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 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 repeat an action that has already been listed.

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.

Communities that have conducted innovative initiatives may want to consider raising their profile through applications to [CEA’s Climate and Energy Action Awards](#), [UBCM Climate and Energy Action Award](#), [FCM Sustainable Communities Awards](#) or through submissions to [FCM’s National Measures Report](#).

Community-Wide Action
For more information contact:
Corporate Action
For more information 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.

Mitigation

Programs and Funding

Adaptation

Programs and Funding

2017 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 portion of the survey, please ensure that you are familiar with guidance available on the B.C. Climate Action Toolkit website, especially the [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 greenhouse gas (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

Did you measure your local government's corporate GHG emissions in 2017?	Yes
If your local government measured 2017 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:	98.5
If your local government measured 2017 corporate GHG emissions, please report the number of corporate GHG emissions (in tonnes of carbon dioxide equivalent) from <u>contracted</u> services:	116
TOTAL A: CORPORATE GHG EMISSIONS FOR 2017	tCO₂e

Reporting Reductions and Offsets

To be carbon neutral, a local government must balance their TOTAL corporate GHG emissions generated in 2017 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

If applicable, please report the 2017 GHG emissions reductions (in tonnes of carbon dioxide equivalent (tCO₂e)) being claimed from Option 1 GHG Reduction Projects:

OPTION 1 PROJECTS	REDUCTIONS
Energy Efficient Retrofits	
Solar Thermal	
Household Organic Waste Composting	
Low Emission Vehicles	
Avoided Forest Conversion	
TOTAL B: REDUCTIONS FROM OPTION 1 PROJECTS FOR 2017	tCO2e

If applicable, please report the names and 2017 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 2017	tCO2e

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 2017 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 2017	tCO2e

TOTAL REDUCTIONS AND OFFSETS FOR 2017 (Total B+C+D) = tCO2e

Corporate GHG Emissions Balance for 2017

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 2017 = (A – (B+C+D)) = tCO2e

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

If applicable, please record any emissions reductions you will be carrying over for future years and the source of the emissions reductions, including the year they were earned (E.g., Organics diversion, 2016 100 tCO2e).

SOURCE OF CARRY OVER EMISSION REDUCTIONS (and year earned)	REDUCTIONS
BALANCE OF REDUCTIONS ELIGIBLE FOR CARRY OVER TO NEXT YEAR	tCO2e

Carbon Neutral Reporting	
Does your local government have a climate reserve fund or something similar?	Yes

GCC CLIMATE ACTION RECOGNITION PROGRAM

Green Communities Committee (GCC) Climate Action Recognition Program

The joint Provincial-UBCM Green Communities Committee (GCC) is pleased to be continuing the Climate Action Recognition Program again this year. This multi-level program provides the GCC with an opportunity to review and publicly recognize the progress and achievements of each Climate Action Charter (Charter) signatory.

Recognition is provided on an annual basis to local governments who demonstrate progress on their Charter commitments, according to the following:

Level 1 – 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 (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:

PROJECT NAME:

Based on your local government's 2017 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 type="checkbox"/>	Level 4 - Achievement of Carbon Neutrality	
<input type="checkbox"/>	Not Sure	

