

Climate Action Revenue Incentive (CARIP) Public Report for 2016

Local Government: Powell River Regional District

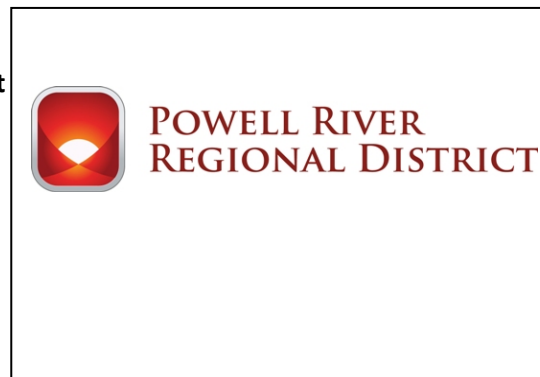
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The Powell River Regional District has completed the 2016 Climate Action Revenue Incentive Program (CARIP) Public Report as required by the Province of BC. The CARIP report summarizes actions taken in 2016 and proposed for 2017 to reduce corporate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

2016 BROAD PLANNING ACTIONS

Broad Planning Actions

Broad Planning refers to high level planning that sets the stage for GHG emissions reductions, including plans such as Official Community Plans, Integrated Community Sustainability Plans, Climate Action Plans or Community Energy Emissions Plans. Land use planning that focuses on Smart Growth principles (compact, complete, connected, centred) plays an especially important role in energy and GHG reduction.

Community-Wide Actions Taken in 2016	
	Electoral Area D (Texada Island) Official Community Plan review and update started in 2016 and included a review of climate change policies, GHG emission reduction targets and GHG emission reduction actions in the current bylaw.
Community-Wide Actions Proposed for 2017	
	Electoral Area D (Texada Island) Official Community Plan review and update will continue through 2017 and include an update of climate change policies, GHG emission reduction targets and GHG emission reduction actions to be developed through community engagement.
	Solid Waste Management Plan update

Corporate Actions Taken in 2016	
	Linda: Have we developed a plan for lowering our carbon footprint?
	Solid Waste Management Plan Advisory Committee struck to review existing plan and make changes.
	Grant funding was confirmed from the Strategic Priorities fund for the Resource Recovery Centre which includes a land closure plan
	An organics diversion from the waste stream undertaken with a pilot project successfully implemented and heavily used.
	Asset management mapping undertaken including trees and forests within the regional district.
Corporate Actions Proposed for 2017	
	Final phase Padgett Road bike and pedestrian to be completed.
	The solid waste management plan is being finalised at writing and will be forwarded to the province for approval.
	The Green House Gas Reduction Strategy is currently in the works and will be completed prior to 2017 year end
	Organics pilot continued / Eco (Natural) Assets inventoried in Asset Management Program

Broad Planning		
<p>What is (are) your current GHG reduction target(s)?</p>	<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. 	
<p>Has your local government used the Community Energy and Emissions Inventory (CEEI) to measure progress?</p>	<p>No</p>	
<p>What plans, policies or guidelines govern the implementation of climate mitigation in your community?</p> <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: 	<p>No No No Yes No No No</p>	
<p>Does your local government have a corporate GHG reduction plan?</p>	<p>No</p>	
<p>Does your local government have a climate reserve fund or something similar?</p>	<p>No</p>	

2016 BUILDINGS AND LIGHTING ACTIONS

Building and Lighting Actions

Low-carbon buildings use the minimum amount of energy needed to provide comfort and safety for their inhabitants and tap into renewable energy sources for heating, cooling and power. These buildings can save money, especially when calculated over the long term. This category also includes reductions realized from energy efficient street lights and lights in parks or other public spaces.

Community-Wide Actions Taken in 2016	
Community-Wide Actions Proposed for 2017	

Corporate Actions Taken in 2016	
	Facility lighting being replaced with LED bulbs as part of maintenance
Corporate Actions Proposed for 2017	
	Facility lighting being replaced with LED bulbs as part of maintenance

2016 ENERGY GENERATION ACTIONS

Energy Generation Actions

A transition to renewable or low-emission energy sources for heating, cooling and power supports large, long-term GHG emissions reductions. Renewable energy including waste heat recovery (e.g. from biogas and biomass), geo-exchange, micro hydroelectric, solar thermal and solar photovoltaic, heat pumps, tidal, wave, and wind energy can be implemented at different scales, e.g. in individual homes, or integrated across neighbourhoods through district energy or co-generation systems.

Community-Wide Actions Taken in 2016	
Community-Wide Actions Proposed for 2017	

Corporate Actions Taken in 2016	
	Savary Island Fire Hall added 4 photovoltaic panels
Corporate Actions Proposed for 2017	

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

2016 GREENSPACE/ NATURAL RESOURCE PROTECTION ACTIONS

Greenspace Actions

Greenspace/Natural Resource Protection refers to the creation of parks and greenways, boulevards, community forests, urban agriculture, riparian areas, gardens, recreation/school sites, and other green spaces, such as remediated brownfield/contaminated sites as well as the protection of wetlands, waterways and other naturally occurring features.

Community-Wide Actions Taken in 2016	
Community-Wide Actions Proposed for 2017	

Corporate Actions Taken in 2016	
	Secured funding for the brownfield remediation of the Marine Avenue site
	Completed the Airport brownfield closure plan and turned it over to the City of Powell River to action the physical closure
	Inclusion of Eco (Natural) Assets in the Board approved Asset Management Policy
Corporate Actions Proposed for 2017	
	Continue planning for the Marine Avenue brownfield closure and the build out of a resource recovery centre.

Greenspace	
Does your local government have urban forest policies, plans or programs?	No

2016 SOLID WASTE ACTIONS

Solid Waste Actions

Reducing, reusing, recycling, recovering and managing the disposal of the residual solid waste minimizes environmental impacts and supports sustainable environmental management, greenhouse gas reductions, and improved air and water quality.

Community-Wide Actions Taken in 2016	
	\$100,000 education program focusing on BC stewardship programs and accepted materials and organics diversion from the waste stream.
	Launched organics diversion pilot project.
	Solid Waste Management Plan Advisory Committee established to update SWMP with a focus on zero waste goals.
Community-Wide Actions Proposed for 2017	
	\$100,000 education program focusing on organics diversion from the waste stream.
	Continuation and expansion of the Organics diversion pilot program to include a City curbside pilot.
	Solid Waste Management Plan update continued with advisory committee. Planned to be completed by end 2017.
	Included a "Coastal Cleanup" initiative in the 2017 budget with volunteer groups actively cleaning up coastal areas. Liaising with different recycling initiatives for the coastal cleanup materials collected i.e. Ocean Legacy Foundation for Styrofoam and hard plastics and Terra Cycle for hard plastics.
	PRRD committed to the Ministry of Environment to close the Lasqueti Island landfill by 2021

Corporate Actions Taken in 2016	
Corporate Actions Proposed for 2017	

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

2016 TRANSPORTATION ACTIONS

Transportation Actions

Transportation actions that increase transportation system efficiency, emphasize the movement of people and goods, and give priority to more efficient modes, e.g. walking, cycling, ridesharing, and public transit, can contribute to reductions in greenhouse gas emissions and more livable communities.

Community -Wide Actions Taken in 2016	
Community-Wide Actions Proposed for 2017	
	Phase 4 of active transportation infrastructure (cycling and walking paths) to be developed in Electoral Area B (along Padgett Road).
	Upgrades to the Savary Island wharf facility will promote active transportation through the incorporation of pedestrian thoroughfare and bicycle rack area

Corporate Actions Taken in 2016	
Corporate Actions Proposed for 2017	

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 have policies, plans or programs to support local food production (thus reducing transportation emissions)?	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	
Community-Wide Actions Proposed for 2017	

Corporate Actions Taken in 2016	
Corporate Actions Proposed for 2017	
	Planned upgrades to the Lund Sewer system will improve effluent, reduce risk of overflows from pump stations into the ocean
Water Conservation	
Does your local government have water conservation policies, plans or programs?	Yes

2016 CLIMATE CHANGE ADAPTATION ACTIONS

Climate Change Adaptation Actions

For local governments, adaptation to a changing climate can take the form of changes in policy, management, technology and behaviour that minimize negative impacts or exploit opportunities. It can involve both “hard” and “soft” solutions, including: changes in infrastructure engineering, planning, zoning, bylaws, and public education.

Climate Change Adaptation Actions Taken in 2016	
	Continued collaborative partnerships with Stewardship Centre for BC (Green Shores Program) and UBC (Coastal Indicators Project and Marine Transportation Project) through 2016 to support planning, policy development, and community engagement on climate change adaptation actions. The Green Shores for Homes Pilot Project supported foreshore policy development and delivery of workshops and training for residents, contractors and staff on how the Green Shores for Homes approach can be used to stabilize shorelines from rising sea levels, storm surge and erosion. UBC Coastal Indicators Project and Marine Transportation Project have supported community climate change adaptation planning and promotion of actions to enhance community resiliency.
	Complete Landslide and Fluvial Hazards Risk Assessment Study for Electoral Area D (Texada Island).
	Lobby provincial Ministry of Transportation and Infrastructure to develop a Drainage and Storm Water Management Plan that takes into account the increasing intensity of rainfall events projected for climate change, and plans for increased resiliency.
Climate Change Adaptation Actions Proposed for 2017	
	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).
	Promote Green Shores demonstration projects.
	Complete a Drainage and Storm Water Management Plan for the region that takes into account the increasing intensity of rainfall events projected for climate change, and plans for increased resiliency, in partnership with provincial Ministry of Transportation and Infrastructure.

Resources you have used to support climate change adaptation (e.g. Plan2Adapt , Preparing for Climate Change: Implementation Guide)	
	Plan2Adapt, Preparing for Climate Change: Implementation Guide
	Sea Level Rise Adaptation Primer: A Toolkit to Build Adaptive Capacity on Canada’s South Coasts.
	PIBC Climate Action Webinars.

In 2016 did you consider climate change impacts in any of the following areas? (check if yes)	
Risk reduction strategies	No
Risk and Vulnerability assessment	Yes
Asset management	No
Infrastructure upgrades (e.g. stormwater system upgrades)	No
Cross-department working groups	No
Emergency response planning	No
Land-use policy changes (eg. OCP, DPA)	Yes
Economic diversification initiatives	No
Ecosystem-based approaches (incl. shorelines)	Yes
Incentives (e.g. property owner reducing stormwater run-off)	No
Public education and awareness	Yes
Research (e.g. mapping, participation in studies)	Yes
Other (Please Identify):	

2016 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 2016	
<input type="checkbox"/>	
Community-Wide Actions Proposed for 2017	
<input type="checkbox"/>	

Corporate Actions Taken in 2016	
<input type="checkbox"/>	
Corporate Actions Proposed for 2017	
<input type="checkbox"/>	

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

The PRRD has received grant funding through the Strategic Priorities Fund and is in the design phase of a incinerator/landfill closure and development into a state-of-the-art resource recovery centre. The project will involve the remediate of a contaminated site and has the added potential to greatly reduce greenhouse gas emissions in the region through enhanced waste diversion opportunities and educations leading to the community's goal of working toward zero waste to landfill.

Corporate Innovative Action

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

Federal Gas Tax Fund - Strategic Priorities Fund
Federal Gas Tax Fund – Community Works Fund

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:	80
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:	125
TOTAL A: CORPORATE GHG EMISSIONS FOR 2016	tCO₂e

Reporting Reductions and Offsets

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

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

If applicable, please report the 2016 GHG emissions reductions (in tonnes of carbon dioxide equivalent (tCO₂e)) being claimed from Option 1 GHG Reduction Projects:

OPTION 1 PROJECTS	REDUCTIONS
Energy Efficient Retrofits	
Solar Thermal	
Household Organic Waste Composting	
Low Emission Vehicles	
Avoided Forest Conversion	
TOTAL B: REDUCTIONS FROM OPTION 1 PROJECTS FOR 2016	tCO₂e

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

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

If applicable, please report the number of offsets purchased (in tonnes of carbon dioxide equivalent (tCO₂e)) from an offset provider for the 2016 reporting year:

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

OFFSET PROVIDER NAME	OFFSETS
TOTAL D: OFFSETS PURCHASED FOR 2016	tCO₂e

TOTAL REDUCTIONS AND OFFSETS FOR 2016 (Total B+C+D) = tCO₂e

Corporate GHG Emissions Balance for 2016

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

CORPORATE GHG EMISSIONS BALANCE FOR 2016 = (A – (B+C+D)) = tCO₂e

GCC CLIMATE ACTION RECOGNITION PROGRAM

Green Communities Committee (GCC) Climate Action Recognition Program

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

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

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

Level 2 – Measuring GHG Emissions: for local governments that achieve level 1, and who have measured their Corporate GHG Emissions for the reporting year and demonstrate that they are familiar with the Community Energy and Emissions Inventory (CEEI)

Level 3 – Accelerating Progress on Charter Commitments: for those local governments who have achieved level 1 and 2 and have demonstrated undertaking significant action (corporately or community wide) to reduce GHG emissions in the reporting year (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:

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

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