

Climate Action Revenue Incentive (CARIP) Public Report for 2018

District of Port Hardy

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The District of Port Hardy 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.

Community-Wide Broad Planning Actions Taken in 2018 + Additional Actions	
	The District of Port Hardy supports and encourages residents and business to reduce, reuse and recycle.
Community-Wide Broad Planning Actions Proposed for 2019	
	The District of Port Hardy supports and encourages residents and business to reduce, reuse and recycle.

Corporate Broad Planning Actions Taken in 2018 + Additional Actions	
	The District of Port Hardy continues to seek energy efficient alternatives to reduce energy demands of District buildings, infrastructure and fleet.
Corporate Broad Planning Actions Proposed for 2019	
	The District of Port Hardy continues to seek energy efficient alternatives to reduce energy demands of District buildings, infrastructure and fleet.

Broad Planning	
Current GHG reduction target(s)?	<p>To pursue climate change mitigation measures to contribute to the global objective of bringing carbon dioxide (CO₂) concentrations in the atmosphere to a level of 350ppm.</p> <p>To work towards reducing community-wide GHG emissions to 33 % below 2007 levels by 2020 and 80% below 2007 levels by 2050:</p> <p>to Measure carbon dioxide emissions, set targets and develop action plans to lower levels:</p> <p>Continue to measure and work towards a baseline of community and District of Port Hardy (operational) energy Green House Gas (GHG) emissions to create a CO₂ inventory using Provincial community and municipal inventory ratios;</p> <p>Develop community based community carbon sequestration;</p> <p>Enhance Carbon sink capacity through natural resource protection and enhancements;</p> <p>Continue gravity fed water systems; and</p> <p>Work towards a carbon neutral status.</p>
Are you familiar with your local government's community energy and emissions inventory (e.g. CEEI or another inventory)?	No
<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 Plan • Integrated Community Sustainability Plan • Community- Wide Climate Action Plan • Official Community Plan • Regional Growth Strategy • 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? Not defined, but as part of the OCP	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.

Community-Wide Building and Lighting Actions Taken in 2018 + Additional Actions	
	N/A
Community-Wide Building and Lighting Actions Proposed for 2019	
	N/A

Corporate Building and Lighting Actions Taken in 2018 + Additional Actions	
	Replaced FireHall#1 fluorescent lighting with energy efficient lights
	Replaced doors & windows at FireHall #1, improving energy efficiency
	Replaced Seagate pier lights with LED lights.
	Replaced exterior doors at Seagate Pier, improving energy efficiency
Corporate Building and Lighting Actions Proposed for 2019	
	Planned replacement of swimming pool including energy efficient lighting, HVAC and heat recovery program. Improve overall heating efficiencies to the aging building & pool.
	Replace roof at Chamber Building, reducing heat loss.
	Planned recreation revitalization (grant dependant) that will improve energy efficiency at the arena.
	New arena chiller will operate with reduced ammonia

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

2018 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 Energy Generation Actions Taken in 2018 + Additional Actions	
	Installation of heat pumps and solar panels by some residents.
Community-Wide Energy Generation Actions Proposed for 2019	
	Installation of heat pumps and solar panels by some residents.

Corporate Energy Generation Actions Taken in 2018 + Additional Actions	
	District of Port Hardy provides political support for the Cape Scott Windfarm initiative located in the Regional District.
Corporate Energy Generation Actions Proposed for 2019	
	The District of Port Hardy will continue to provide political support for the Cape Scott Windfarm initiative located in the Regional District.

Energy Generation	
Is your local government developing, or constructing a <ul style="list-style-type: none"> • district energy system • renewable energy system 	No No
Is your local government operating a <ul style="list-style-type: none"> • district energy system • 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 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.

Community-Wide Greenspace Actions Taken in 2018 + Additional Actions	
	District of Port Hardy is a participant in the North Island Community Forest Limited Partnership.
	Community participated in various “clean-up” programs.
	Watershed working group.
	Community Gardens.
Community-Wide Greenspace Actions Proposed for 2019	
	Knotweed eradication program.
	PH Seniors Society planned expansion of community garden/addition of greenhouse.

Corporate Greenspace Actions Taken in 2018 + Additional Actions	
	Support community gardens.
Corporate Greenspace Actions Proposed for 2019	
	Apply for grant funding from the Tree Canada Foundation/BC Hydro Re-Green to purchase trees to be planted in various green spaces.
	Support the Knotweed eradication program.
	Support community gardens.

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

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.

Community-Wide Solid Waste Actions Taken in 2018 + Additional Actions	
	District of Port Hardy participates in Recycle BC and encourages recycling.
Community-Wide Solid Waste Actions Proposed for 2019	
	District of Port Hardy participates in Recycle BC and encourages recycling.

Corporate Solid Waste Actions Taken in 2018 + Additional Actions	
	District of Port Hardy is a supporter of the Regional District of Mount Waddington Bio-cover project.
Corporate Solid Waste Actions Proposed for 2019	
	District of Port Hardy is a supporter of the Regional District of Mount Waddington Bio-cover project.
	District survey on plastic vs cloth grocery bags.

Solid Waste	
Does your local government have construction and demolition waste reduction policies, plans or programs?	Yes
Does your local government have organics reduction/diversion policies, plans or programs?	No

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.

Community-Wide Transportation Actions Taken in 2018 + Additional Actions	
	BC Transit Bus service.
Community-Wide Transportation Actions Proposed for 2019	
	BC Transit Bus service.

Corporate Transportation Actions Taken in 2018 + Additional Actions	
	General maintenance of path and sidewalk network.
	Repairs to road surface improving efficiency for vehicle energy consumption.
	Retire and replace fleet with more efficient vehicles.
	Support energy efficient transportation with zoning development that permits installation of electric vehicle charging stations.
Corporate Transportation - Actions Proposed for 2019	
	Continue to maintain path, road and sidewalk network.
	Planned installation of EV Stations on Market Street.
	Spill response training for Harbour staff and increased spill response supplies.
	Improve boat launch area with rip rap to eliminate erosion issues.

Transportation	
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 No Yes Yes 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 behaviour)?	No
Does your local government integrate its transportation and land use planning?	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.

Community-Wide Water and Wastewater Actions Taken in 2018 + Additional Actions	
	Conservation encouraged through use of fees, fines and user rates.
Community-Wide Water and Wastewater Actions Proposed for 2019	
	Conservation encouraged through use of fees, fines and user rates.

Corporate Water and Wastewater Actions Taken in 2018 + Additional Actions	
	Repairs at Kains Lake Dam, improving the integrity of the structure.
	Implement water modeling strategies.
	Increase water storage with new reservoir.
	Replacement of 3km of water lines with increase for fire flow.
Corporate Water and Wastewater Actions Proposed for 2019	
	Improvements to integrity of Kains Lake Dam.
	Installation of additional meters for water service.

Water Conservation	
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.

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 	<p>YES</p> <p>YES</p> <p>Yes</p>

In 2018 has your local government addressed the impacts of a changing climate using any of the following?	
Risk and Vulnerability Assessments	No
Risk Reduction Strategies	No
Emergency Response Planning	Yes
Asset Management	Yes
Natural/Eco Asset Management Strategies	No
Infrastructure Upgrades (e.g. stormwater system upgrades)	Yes
Beach Nourishment Projects	No
Economic Diversification Initiatives	No
Strategic and Financial Planning	Yes
Cross-Department Working Groups	No
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)	No
Public Education and Awareness	Yes
Research	No
Mapping	Yes
Partnerships	Yes
Other:	No

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.	
	Participation in Regional District of Mount Waddington 7 Mile Bio cover & biosolids composting project.
Climate Change Adaptation Actions Proposed for 2019	
	Participation in Regional District of Mount Waddington 7 Mile Bio cover & biosolids composting project.
	OCP review to be started.
For more information please contact	
	Chief Administrative Officer.

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 [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 making applications to [CEA's Climate and Energy Action Awards](#), [FCM Sustainable Communities Awards](#) or to [FCM's National Measures Report](#).

Community-Wide Innovation Action
Regional District of Mount Waddington – 7 Mile Bio-cover & Biosolids composting project.
Corporate Innovation Action
Community Energy Leadership Program (CELP) for funding to support an Energy Efficient Heat Recovery System project for the new multiplex building.
For more information on actions described above contact
Chief Administrative Officer

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

Mitigation Programs, Partnerships and Funding
N/A

Adaptation

Adaptation Programs, Partnerships and Funding
Program 2/EV electric charging stations provided by BC Hydro, to be installed on District land and accessible to the public.

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.

Guidance for reporting emissions is available on the [B.C. Climate Action Toolkit website](#), especially the [Workbook](#) and [Becoming Carbon Neutral: A Guide for Local Governments in British Columbia](#).

Reporting Emissions

Did your local government measure corporate GHG emissions for 2018?	Yes
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)	253.49
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)	175.93
TOTAL A: CORPORATE GHG EMISSIONS FOR 2018 (Direct GHGs + Contracted GHGs)	429.42 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](#).

2018 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 (in tonnes of carbon dioxide equivalent (tCO ₂ e))	n/a
Solar Thermal (in tonnes of carbon dioxide equivalent (tCO ₂ e))	n/a
Household Organic Waste Compost(in tonnes of carbon dioxide equivalent (tCO ₂ e))	n/a
Low Emission Vehicles (in tonnes of carbon dioxide equivalent (tCO ₂ e))	n/a
Avoided Forest Conversion (in tonnes of carbon dioxide equivalent (tCO ₂ e))	n/a
TOTAL B: REDUCTIONS FROM ALL OPTION 1 PROJECTS FOR 2018	n/a tCO₂e

2018 GHG emissions reductions (in tonnes of carbon dioxide equivalent (tCO₂e)) being claimed from Option 2 GHG Reduction Projects:

Option 2 Project Name	REDUCTIONS
Regional District of Mount Waddington 7 Mile Bio-cover Project	148.00
Regional District of Mount Waddington 7 Mile Biosolids Composting project	418.90
TOTAL C: REDUCTIONS FROM ALL OPTION 2 PROJECTS FOR 2018	562.90 tCO₂e

TOTAL REDUCTIONS AND OFFSETS FOR 2018 (Total B+C) = 562.90 tCO₂e

Corporate GHG Emissions Balance for 2018

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.

CORPORATE GHG EMISSIONS BALANCE FOR 2018 = (A – (B+C+D)) = -133.48 tCO₂e

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

CONGRATULATIONS!

Carbon Neutral Reporting	
Does your local government set aside funds in a climate reserve fund or similar?	Yes

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.

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 - District of Port Hardy Climate Action Carbon Neutral Fund	
	Level 4 - Achievement of Carbon Neutrality	X
	Not Sure	