Climate Action Revenue Incentive (CARIP) Public Report for 2016

Local Government: Village of Gold River

Report Submitted by: Name: Larry Plourde

Role: CAO

Email: grlplourde@cablerocket.com

Phone: (250) 283-2202

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The Village of Gold River 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	
Distributed brochures to community; included information to reduce energy and promote	
conservation.	
mmunity-Wide Actions Proposed for 2017	
Continue to provide educational brochures to provide information to the public	

Coı	Corporate Actions Taken in 2016	
	Promote employee awareness (BC Action Tool Kit)	
	Contributed \$6,974 of funding to Carbon Offset Reserve	
Coı	rporate Actions Proposed for 2017	
	Ongoing utilization of BC Action Tool Kit	
	Continue funding Carbon Offset Reserve	
	Ongoing review of community projects for GHG reduction opportunities	

Broad Planning		
What is (are) your current GHG	(Please provide details here)	
reduction target(s)?	33% reduction by 2020; 80% reduction by 2050 based on 20	007 levels
Has your local government used t measure progress?	he Community Energy and Emissions Inventory (CEEI) to	Yes
What plans, policies or guidelines community?	govern the implementation of climate mitigation in your	
• Commu	nity Energy and Emissions (CEE) Plan	Yes
• Climate	Action Plan	Yes
 Integrate 	ed Community Sustainability Plan	No
Official 0	Community Plan (OCP)	Yes
• Regional	Growth Strategy (RGS)	No
• Do not h	ave a plan	
Other: C	limate Action Budgetary Policy and	Yes
Climate	Action Reserve Account	
Does your local government have	a corporate GHG reduction plan?	No
Does your local government have	a climate reserve fund or something similar?	Yes

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.

Coi	Community-Wide Actions Taken in 2016	
	None	
Coi	mmunity-Wide Actions Proposed for 2017	
	None	

Corporate Actions Taken in 2016	
	Converted outdoor lighting at Municipal Dock Facility to LED

Planned to insulate Public Works Shop (delayed to 2017)
Corporate Actions Proposed for 2017
Continue to convert lighting to LED where opportunities exist
Insulate Public Works Shop
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, o
integrated across neighbourhoods through district energy or co-generation systems.
Community-Wide Actions Taken in 2016
None
Community-Wide Actions Proposed for 2017
None
Corporate Actions Taken in 2016
-
Reviewed option to recover heat from bio-solids (not practical)
•

Coi	Corporate Actions Proposed for 2017	
	Evaluate heat pump option for Public Safety Building	
	Evaluate heat pump option for Community Hall	

Energy Genera	ition	
Is your local go	vernment developing, or constructing:	
•	A district energy system	No
•	A renewable energy system	No
Is your local go	vernment operating:	
•	A district energy system	No
•	A renewable energy system	No
Is your local go energy provide	vernment connected to a district energy system that is operated by another er?	No
Are you aware Toolkit?	of the Integrated Resource Recovery guidance page on the <u>BC Climate Action</u>	Yes

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.

Coi	Community-Wide Actions Taken in 2016	
	None	
Coi	mmunity-Wide Actions Proposed for 2017	
	None	

Coı	Corporate Actions Taken in 2016	
	None	
Coı	porate Actions Proposed for 2017	
	None	

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.

Cor	Community-Wide Actions Taken in 2016	
	None	
Coı	mmunity-Wide Actions Proposed for 2017	
	None	

Co	Corporate Actions Taken in 2016	
	Promoted 3-R's in community education brochure	
	Education materials regarding MMBC-PPP Program	
	Operated the Recycling Depot/Free Store	

Coi	Corporate Actions Proposed for 2017		
	Continue community education		
	Continue participation in MMBC-PPP Program		
	Continue operations of the Recycling Depot/Free Store		

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?	No

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.

Cor	Community -Wide Actions Taken in 2016		
	None		
Cor	mmunity-Wide Actions Proposed for 2017		
	None		

Coi	Corporate Actions Taken in 2016		
	None		
Coi	Corporate Actions Proposed for 2017		
	None		

Transportation		
Does your local government have policies, plans or programs to support:		
•	Walking	Yes
•	Cycling	Yes
•	Transit Use	No
•	Electric Vehicle Use	No
•	Other (please specify)	
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		No
production (thus reducing transportation emissions)?		

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.

Coı	mmunity-Wide Actions Taken in 2016		
	Annual community water restrictions		
	Promote water conservation		
Coı	Community-Wide Actions Proposed for 2017		
	Annual community water restrictions		
	Continue water conservation program		

Corporate Action		porate Actions Taken in 2016
		Installed new institutional/commercial water meters
ſ		Undertook leak detection assessment of water system

	Purchased mobile water flow meter to assess areas of the community for high water use		
Corporate Actions Proposed for 2017			
	Implement program of repairs for 2016 Leak Detection Report		
	Undertake Inflow and Infiltration repairs to sewer lines in Maquinna catchment area		
	Purchase waste water flow meter to assess areas of community for high Inflow and Infiltration flaws		
Water Conservation			
Do	es 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.

Clin	Climate Change Adaptation Actions Taken in 2016		
	Measuring aquifer level (water wells) to understand if permanent changes are occurring		
Clir	Climate Change Adaptation Actions Proposed for 2017		
	Continue to measure well levels to understand potential drought/climate change impacts		

Res	Resources you have used to support climate change adaptation (e.g. <u>Plan2Adapt</u> , <u>Preparing for</u>		
Clir	Climate Change: Implementation Guide)		
	Familiar with available resources – have not implemented action		

In 2016 did you consider climate change impacts in any of the following areas? (check if yes)

Risk reduction strategies	
Risk and Vulnerability assessment	
Asset management	
Infrastructure upgrades (e.g. stormwater system upgrades)	
Cross-department working groups	
Emergency response planning	
Land-use policy changes (eg. OCP, DPA)	
Economic diversification initiatives	
Ecosystem-based approaches (incl. shorelines)	
Incentives (e.g. property owner reducing stormwater run-off)	
Public education and awareness	Yes
Research (e.g.mapping, participation in studies)	163
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.

Con	nmunity-Wide Actions Taken in 2016
	None
Com	nmunity-Wide Actions Proposed for 2017
	None
Corp	porate Actions Taken in 2016
	None

Co	porate Actions Proposed for 2017	
CO	None	
0.1		
	ner you familiar with the Community Lifecycle Infrastructure Costing Tool (CLIC)?	Yes
AIE	e you fairlillar with the <u>community thecycle infrastructure costing roof (ctic)</u> ?	162
Ha	ve you used CLIC?	No
	NNOVATION AND PEER-TO-PEER LEARNING	
In	novation	
	s section provides the opportunity to showcase an innovative Corporate and/or Community-	.Wide
	G reduction or climate change adaptation activity that your local government has undertake	
	t has had or has the potential to have a significant impact. Projects included here may be feat	
	cess stories on the B.C. Climate Action Toolkit and/or shared with other local governments t	
	ther climate action. Please add links to additional information where possible.	o mapire
iui	the climate action. Trease and links to additional information where possible.	
Со	mmunity-Wide Innovative Action	
Со	porate 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	

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	348.7
the number of corporate GHG emissions (in tonnes of carbon dioxide equivalent)	
from services delivered directly by your local government:	
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:	
TOTAL A: CORPORATE GHG EMISSIONS FOR 2016	348.7 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
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Energy Efficient Retrofits	
Solar Thermal	
Household Organic Waste Composting	
Low Emission Vehicles	
Avoided Forest Conversion	
TOTAL B: REDUCTIONS FROM OPTION 1 PROJECTS FOR 2016	0 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	0 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	0 tCO2e

TOTAL REDUCTIONS AND OFFSETS FOR 2016 (Total B+C+D) = 0 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)) = 348.7 tCO2e

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

CONGRATULATIONS!

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:

Level 1 – Demonstrating Progress on Charter Commitments	
Level 2 – Measuring GHG Emissions	X
Level 3 – Accelerating Progress on Charter Commitments	
Level 4 - Achievement of Carbon Neutrality	
Not Sure	