

Climate Action Revenue Incentive (CARIP) Public Report for 2016

Local Government: Village of Valemount

Report Submitted by:

Name: Lori McNee

Role: Director of Finance

Email: dof@valemount.ca

Phone: 250 566 4435

Date: May 26, 2017



The Village of Valemount 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	
	None
Community-Wide Actions Proposed for 2017	
	None

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

Broad Planning	
What is (are) your current GHG reduction target(s)?	Measurable reduction by 2015, with further reduction by 2020
Has your local government used the Community Energy and Emissions Inventory (CEEI) to measure progress?	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 • Climate Action Plan • Integrated Community Sustainability Plan • Official Community Plan (OCP) • Regional Growth Strategy (RGS) • Do not have a plan • Other: 	No Yes Yes Yes No
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.

Community-Wide Actions Taken in 2016	
<input type="checkbox"/>	Promote BC Hydro incentives
<input type="checkbox"/>	
Community-Wide Actions Proposed for 2017	
<input type="checkbox"/>	Promote BC Hydro incentives
<input type="checkbox"/>	Promote energy saving tips
<input type="checkbox"/>	
<input type="checkbox"/>	
<input type="checkbox"/>	

Corporate Actions Taken in 2016	
<input type="checkbox"/>	Updated lighting in Visitor Centre
<input type="checkbox"/>	Updated lighting in Public Works Shop
<input type="checkbox"/>	Insulated Village library to enhance heating and cooling
<input type="checkbox"/>	Built new dog pound to enhance heating and cooling
<input type="checkbox"/>	
Corporate Actions Proposed for 2017	
<input type="checkbox"/>	Update lighting in other municipal buildings
<input type="checkbox"/>	Update thermostats to programmable

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	
	None
Community-Wide Actions Proposed for 2017	
	None

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

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 energy provider?	No
Are you aware of the Integrated Resource Recovery guidance page on the BC Climate Action Toolkit ?	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.

Community-Wide Actions Taken in 2016	
	Council established a Direct Heat Use Committee to explore geothermal options
Community-Wide Actions Proposed for 2017	
	Continue to organize Direct Heat Use Committee and take recommendations to Council

Corporate Actions Taken in 2016	
	None

Corporate 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.

Community-Wide Actions Taken in 2016	
	Promote and execute spring clean up in conjunction with Regional District promotes recycling and composting

Community-Wide Actions Proposed for 2017	
	Promote and execute spring clean up in conjunction with Regional District promotes recycling and composting
	Promote recycling to public
	Work with Regional District on recycling options

Corporate Actions Taken in 2016	
	Municipal Office and Public Works employees participate in recycling program

Corporate Actions Proposed for 2017	
	Municipal Office and Public Works employees continue to participate recycling 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?	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.

Community -Wide Actions Taken in 2016	
	Village staff and provincial delegates organized a Business Walk (meet and greet)
	Encourage walking and biking by promoting the Big Foot Trail, Cranberry Marsh and local Bike and Hiking trails
Community-Wide Actions Proposed for 2017	
	Village staff and provincial delegates to organize a Business Walk (meet and greet)
	Encourage walking and biking by promoting the Big Foot Trail, Cranberry Marsh and local Bike and Hiking trails

Corporate Actions Taken in 2016	
	Encourage Village employees to walk and bike to work
	Encourage Village employees and Council to car pool when traveling on business
Corporate Actions Proposed for 2017	
	Encourage Village employees to walk and bike to work
	Encourage Village employees and Council to car pool when traveling on business
	Review current Public Works fleet
Transportation	
Does your local government have policies, plans or programs to support:	
• Walking	No
• Cycling	No
	No

<ul style="list-style-type: none"> • Transit Use • Electric Vehicle Use • 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)?	No

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	
<input type="checkbox"/>	Educate public on water conservation and implement water restrictions
<input type="checkbox"/>	CBT Water Smart program - lawn assessments and provide water timers
<input type="checkbox"/>	Education public on FOG program
<input type="checkbox"/>	Provide elementary school tours and education programs in Wastewater and Water facilities
<input type="checkbox"/>	
Community-Wide Actions Proposed for 2017	
<input type="checkbox"/>	
<input type="checkbox"/>	Educate public on Water Conservation and implement water restrictions
<input type="checkbox"/>	Education public on FOG program
<input type="checkbox"/>	Provide elementary school tours and education programs in Wastewater and Water facilities
<input type="checkbox"/>	

Corporate Actions Taken in 2016	
<input type="checkbox"/>	Adhere to own water conservation and restrictions
<input type="checkbox"/>	Implemented new water and sewer rates in order to focus on conservation
<input type="checkbox"/>	
<input type="checkbox"/>	
Corporate Actions Proposed for 2017	
<input type="checkbox"/>	Installed new lift station on 5 th ave.
<input type="checkbox"/>	Apply for funding for a new lift station study
<input type="checkbox"/>	Sewer line camera inspections
<input type="checkbox"/>	Continue to implement new water and sewer rates in order to focus on conservation
<input type="checkbox"/>	Enhance park water procedures
<input type="checkbox"/>	

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	
<input type="checkbox"/>	None
<input type="checkbox"/>	
<input type="checkbox"/>	
<input type="checkbox"/>	
Climate Change Adaptation Actions Proposed for 2017	
<input type="checkbox"/>	None
<input type="checkbox"/>	
<input type="checkbox"/>	
<input type="checkbox"/>	

Resources you have used to support climate change adaptation (e.g. Plan2Adapt , Preparing for Climate Change: Implementation Guide)	
<input type="checkbox"/>	None
<input type="checkbox"/>	
<input type="checkbox"/>	
<input type="checkbox"/>	

In 2016 did you consider climate change impacts in any of the following areas? (check if yes)	
Risk reduction strategies	<input checked="" type="checkbox"/>
Risk and Vulnerability assessment	<input checked="" type="checkbox"/>
Asset management	<input checked="" type="checkbox"/>
Infrastructure upgrades (e.g. stormwater system upgrades)	<input checked="" type="checkbox"/>
Cross-department working groups	<input checked="" type="checkbox"/>
Emergency response planning	<input checked="" type="checkbox"/>
Land-use policy changes (eg. OCP, DPA)	<input type="checkbox"/>

Economic diversification initiatives Ecosystem-based approaches (incl. shorelines) Incentives (e.g. property owner reducing stormwater run-off) Public education and awareness Research (e.g. mapping, participation in studies) Other (Please Identify):	
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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	
	None
Community-Wide Actions Proposed for 2017	
	None

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

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
None
Corporate Innovative Action
None

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
None

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:	118
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:	0
TOTAL A: CORPORATE GHG EMISSIONS FOR 2016	118 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	0
Solar Thermal	0
Household Organic Waste Composting	0

Low Emission Vehicles	2
Avoided Forest Conversion	0
TOTAL B: REDUCTIONS FROM OPTION 1 PROJECTS FOR 2016	2 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) = 2 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)) = 116 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:
n/a

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