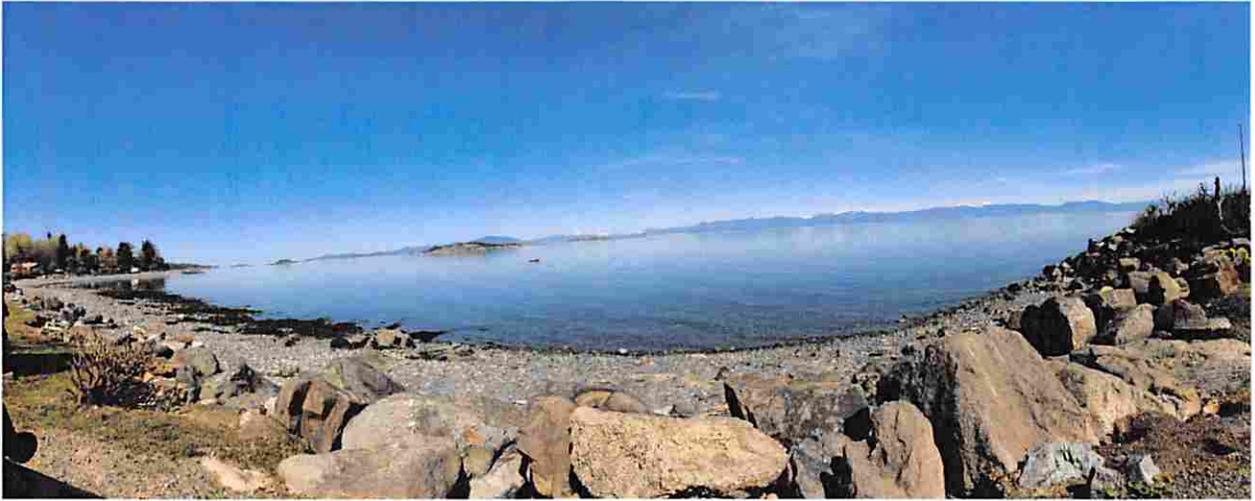

Climate Action Revenue Incentive (CARIP) Public Report for 2015



Panoramic View – District of Lantzville Beach

The District of Lantzville has completed the 2015 Climate Action Revenue Incentive Program (CARIP) Public Report as required by the Province of BC. The CARIP report summarizes actions taken in 2015 and proposed for 2016 to reduce corporate and community-wide energy consumption and greenhouse gas emissions (GHG) and reports on progress towards achieving carbon neutrality. There is also an opportunity to report on climate adaptation 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 2015	
	Official Community Plan review
Community-Wide Actions Proposed for 2016	
	Continuance of OCP review
	Economic development
Corporate Actions Taken in 2015	
	Completion of Village Commercial Improvement Plan
	Council signing onto BC Climate Action Plan
Corporate Actions Proposed for 2016	
	Continue implementation of Village Core Improvement Plan
	Council signing onto BC Climate Action Plan

Snapshot Questions	
Were GHG reduction targets included in your local government's Official Community Plan or Regional Growth Strategy?	No
Are you familiar with the Community Energy and Emission Inventory (CEEI)?	Yes
Does your local government use the Community Energy and Emissions Inventory (CEEI) to measure progress?	Yes
Which of the following does your local government use to guide climate action implementation?	
• Community Energy and Emissions (CEE) Plan	Yes
• Climate Action Plan	Yes
• Integrated Community Sustainability Plan	No
• Official Community Plan (OCP)	Yes
• Regional Growth Strategy (RGS)	Yes
Does your local government have a climate action reserve fund?	No
Does your local government have a Corporate Climate Action Plan?	No

BUILDINGS 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 2015	
	none
Community-Wide Actions Proposed for 2016	
	none
Corporate Actions Taken in 2015	
	Replacement of contracted Porta Potty Service with Public Access Washroom building, operational in early 2016
	Replacement of lighting with high efficiency lighting – ongoing
Corporate Actions Proposed for 2016	
	Firehall upgrades
	Continue to replace lighting with high efficiency lighting

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 2015	
	Participation in rebates programs including Woodstove Replacement Program
Community-Wide Actions Proposed for 2016	
	Participation in rebates programs offered through the Regional District of Nanaimo including:
	Renewable Energy System Incentive, Home Energy Assessment & Woodstove Exchange
	Residential EV Charging Station
Corporate Actions Taken in 2015	
	Pamphlets and Monthly circulars
	Evaluation of energy efficient UV panels
Corporate Actions Proposed for 2016	
	Pamphlets and Monthly circulars
	Continue to consider usage/benefits of energy efficient UV panels

Snapshot Questions	
Is your local government developing, or constructing a district energy project?	No
Is your local government operating a district energy system?	No
Is your local government developing or constructing a renewable energy project?	No
Is your local government operating a renewable energy project?	No
Are you aware of the Integrated Resource Recovery guidance page on the BC Climate Action Toolkit (insert link here)?	Yes

GREENSPACE/ NATURAL RESOURCE PROTECTION 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 2015	
	Supported Not For Profit Broombusters
	Offered Memorial Tree Program to encourage tree planting in municipal green spaces.
	Offered Memorial Bench Program to encourage resting area in municipal green spaces.
Community-Wide Actions Proposed for 2016	
	Continued support for NFP Broombusters
	Continue to offer Memorial Tree Program
	Continue to offer Memorial Bench Program
Corporate Actions Taken in 2015	
	Signed 2 new Partnership Agreements with Province of BC for the District to provide management and maintenance services on provincial land in exchange for interest in fully adopting the related area to enhancing public recreational and/or conservation activities in the agreement. Services include but not limited to; Ecological restoration, research and conservation projects, and work on trails and facilities available for public use.
Corporate Actions Proposed for 2016	
	Development of Wood Lot Trails
	Playground improvement to Rotary Park
	Development of Mountain Skills Bike Park
	Interpretive Signage for Parks
	Wilson Rd Phase 1

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

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 2015	
<input type="checkbox"/>	Participated in regional organics / food waste collection program
Community-Wide Actions Proposed for 2016	
<input type="checkbox"/>	Continue to participate in regional organics / food waste collection program
Corporate Actions Taken in 2015	
<input type="checkbox"/>	Asphalt reclamation during road construction instead of disposal of old asphalt
Corporate Actions Proposed for 2016	
<input type="checkbox"/>	Continue working with contractors to reduce waste from projects (e.g. asphalt reclamation)

Snapshot Questions	
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

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 2015	
<input type="checkbox"/>	Providing Cycling Safety Clinics
<input type="checkbox"/>	Work on Village Core Commercial Improvement Plan
Community-Wide Actions Proposed for 2016	
<input type="checkbox"/>	Hold safe travel clinics for cyclists and pedestrians
<input type="checkbox"/>	Kid's Road Safety Course
<input type="checkbox"/>	Continue to implement Trails and Journeyways Strategy to promote alternate modes of travel to driving.
Corporate Actions Taken in 2015	
<input type="checkbox"/>	Training by webinar and shared transportation to courses when possible.
<input type="checkbox"/>	Non-idling practice encouraged for staff and contractors.
<input type="checkbox"/>	Installation of Bicycle Rack
Corporate Actions Proposed for 2016	
<input type="checkbox"/>	Continue to use energy efficient means of transportation for staff.
<input type="checkbox"/>	Continue to encourage non-idling practice.

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

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 2015	
<input type="checkbox"/>	Tiered water rates in place
<input type="checkbox"/>	Continue to use water meters in community water system
<input type="checkbox"/>	Participated in: <ul style="list-style-type: none"> • Regional Drinking Water and Watershed Program • Team WaterSmart initiatives • SepticSmart initiatives • Resident water use audits • Implementation of new universal (regional) watering restriction guidelines, and improved communications to residents regarding water conservation • Offered low flush toilet rebate program
Community-Wide Actions Proposed for 2016	
<input type="checkbox"/>	Prioritize our Water Supply to residents in need
<input type="checkbox"/>	Continue to use water meters
<input type="checkbox"/>	Continue to participate in programs
<input type="checkbox"/>	Continue to engage residents regarding water conservation
<input type="checkbox"/>	Continue to offer low flush toilet rebate program
<input type="checkbox"/>	Continue to use tiered water rates
<input type="checkbox"/>	Promote water conservation through regional wide contest “Nominate Your Neighbour”
Corporate Actions Taken in 2015	
<input type="checkbox"/>	Completion of Wellfield Management Plan
<input type="checkbox"/>	Redevelop wells
Corporate Actions Proposed for 2016	
<input type="checkbox"/>	Prioritize water sources for residence not on community water

Snapshot Questions	
Does your local government have water conservation policies, plans or programs?	Yes

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.

Community-Wide Actions Taken in 2015	
<input type="checkbox"/>	none
Community-Wide Actions Proposed for 2016	
<input type="checkbox"/>	none
Corporate Actions Taken in 2015	
<input type="checkbox"/>	none
Corporate Actions Proposed for 2016	
<input type="checkbox"/>	Acquisition of Asset Management Software to identify infrastructure replacement including minimizing and identifying any future environmental impact or risk to the environment.

Snapshot Questions	
Are you aware of the Plan2Adapt guidance page on the BC Climate Action Toolkit ?	Yes
Are you aware of the <i>Preparing for Climate Change, An Implementation Guide for Local Governments in BC</i> on the BC Climate Action Toolkit ?	Yes
Have you visited the climate change adaptation guidance page on the BC Climate Action Toolkit ?	Yes

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 2015	
<input type="checkbox"/>	none
Community-Wide Actions Proposed for 2016	
<input type="checkbox"/>	none
Corporate Actions Taken in 2015	
<input type="checkbox"/>	none
Corporate Actions Proposed for 2016	
<input type="checkbox"/>	none

INNOVATION AND PEER-TO-PEER LEARNING

This section provides the opportunity to showcase an innovative Corporate and/or Community-Wide reduction or adaptation activity that your local government has undertaken and that has had a significant impact 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
Development of water conservation workshops

Corporate Innovative Action
Development of water conservation workshops

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 appropriate box below.

Programs and Funding
Regional District of Nanaimo – rebates through the Green Building Incentive Program and the Drinking water and Watershed Protection Program. Province of BC, Ministry of Forest, Lands and Natural Resources Operations

2015 CARBON NEUTRAL REPORTING

Reporting Emissions

Did you measure your local government's corporate GHG emissions in 2015?	Yes
If your local government measured 2015 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:	39.16
If your local government measured 2015 corporate GHG emissions, please report the number of corporate GHG emissions (in tonnes of carbon dioxide equivalent) from <u>contracted</u> services:	4.88
TOTAL A: CORPORATE GHG EMISSIONS FOR 2015	44.04 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 Option 1 Projects (GCC-supported)
- undertake Option 2 Projects (alternative) community GHG emissions reduction projects that meet project eligibility requirements
- purchase carbon offsets from a credible offset provider

If applicable, please report the 2015 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	n/a
Solar Thermal	n/a
Household Organic Waste Composting: 1,413 households in Lantzville participated in curbside organic collection	86.8
Low Emission Vehicles	n/a
Avoided Forest Conversion	n/a
TOTAL B: REDUCTIONS FROM OPTION 1 PROJECTS FOR 2015	86.8 tCO₂e

If applicable, please report the names and 2015 GHG emissions reductions (in tonnes of carbon dioxide equivalent (tCO₂e)) being claimed from Option 2 GHG Reduction Projects:

OPTION 2 PROJECT NAME	REDUCTIONS
	n/a
TOTAL C: REDUCTIONS FROM OPTION 2 PROJECTS FOR 2015	tCO₂e

**If applicable, please report the number of offsets purchased (in tonnes of carbon dioxide equivalent (tCO₂e)) from an offset provider for the 2015 reporting year:
 (NOTE: DO NOT INCLUDE ANY FUNDS THAT MAY BE SET ASIDE IN A CLIMATE ACTION RESERVE FUND)**

OFFSET PROVIDER	REDUCTIONS
	n/a
TOTAL D: OFFSETS PURCHASED FOR 2015	tCO₂e

TOTAL REDUCTION AND OFFSETS FOR 2015 (Total B+C+D) = 86.8 tCO₂e

Corporate GHG Emissions Balance for 2015

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 2015 = (A – (B+C+D)) = -42.76 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. Recognition is provided on an annual basis to local governments who demonstrate progress on their Charter commitments, according to the following:

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

Level 2 - Measurement: for local governments 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 - Achievement of Carbon Neutrality: for local governments who achieve carbon neutrality in the reporting year.

Based on your local government's 2015 CARIP Public Report, please check the GCC Climate Action Recognition Program level that best applies:

	Level 1 - Progress on Charter Commitments	
	Level 2 - Measurement	
	Level 3 - Achievement of Carbon Neutrality	<input checked="" type="checkbox"/>
	Not Sure	