

District of Lantzville
2017
Climate Action Revenue Incentive Public Report



The District of Lantzville has completed the 2017 Climate Action Revenue Incentive Program (CARIP) Public Report as required by the Province of BC. The CARIP report summarizes actions taken in 2017 and proposed for 2018 to reduce corporate and community-wide energy consumption and greenhouse gas emissions (GHG) and reports on progress towards achieving carbon neutrality.

2017 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 2017	
	Continuance of Official Community Plan review
	Completed and adopted a Water Master Plan
Community-Wide Actions Proposed for 2018	
	Completion of the Official Community Plan
	Commence Zoning Bylaw Review
	Creation of an Economic Development Strategy

Corporate Actions Taken in 2017	
	Continued with 2016-2018 Strategic Plan
	Updated website to handle online Homeowner Grant applications (saving paper)
Corporate Actions Proposed for 2018	
	Complete a Service Capacity Review
	Continue with the 2016-2018 Strategic Plan

Broad Planning	
Will be revising under new Official Community Plan (OCP)	Yes
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?	
• 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
• Do not have a plan	n/a
• Other:	n/a
Does your local government have a corporate GHG reduction plan?	No
Does your local government have a climate reserve fund or something similar?	No

2017 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 2017	
	Commence planning for Costin Hall
Community-Wide Actions Proposed for 2018	
	Creation of a long-term plan for Costin Hall and Heritage Hall
	Replacement of the Heat Pump in Costin Hall with a newer, more efficient unit

Corporate Actions Taken in 2017	
	Replacement of lighting with high efficiency lighting – ongoing
	Subdivision applications/approvals are given subject to legislation requirements and that adhere to the District’s low impact development standards – ongoing
Corporate Actions Proposed for 2018	
	Replacement of lighting with high efficiency lighting – ongoing
	Subdivision applications/approvals are given subject to legislation requirements and that adhere to the District’s low impact development standards – ongoing

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 Cost?	Yes
Is your local government implementing the BC Energy Step Code?	No

2017 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 2017	
	Participation in rebates programs through the Regional District of Nanaimo offered including: Renewable Energy System Incentive, Home Energy Assessment & Woodstove Exchange
	Review of Street Lights to LED to reduce energy consumption
Community-Wide Actions Proposed for 2018	
	Participation in rebates programs through the Regional District of Nanaimo offered including: Renewable Energy System Incentive, Home Energy Assessment & Woodstove Exchange
	Review of Street Lights to LED to reduce energy consumption

Corporate Actions Taken in 2017	
	Pamphlets and Monthly circulars
Corporate Actions Proposed for 2018	
	Pamphlets and Monthly circulars

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?	Yes
Are you aware of the Integrated Resource Recovery guidance page on the BC Climate Action Toolkit ?	Yes
Are you familiar with the 2017 " List of Funding Opportunities for Clean Energy Projects Led by First Nations and Local Governments? "	Yes

2017 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 2017	
	Parks & Recreation Commission Plans continued to improve trails development
	Parks & Recreation Commission continued to improve mapping & signs
Community-Wide Actions Proposed for 2018	
	Work on Huddlestone Park
	Create a 730-acre park through subdivision approval process

Corporate Actions Taken in 2017	
	Complete Mountain Skills Bike Park
	Continue Partnership Agreement with Province to develop & maintain land recreation/conservation
Corporate Actions Proposed for 2018	
	Take ownership of a 730-acre park
	Continue Partnership Agreement with Province to develop & maintain land recreation/conservation

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

2017 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 2017	
	Continue to participate in regional organics / food waste collection program
	Asphalt reclamation during road construction instead of disposal of old asphalt
Community-Wide Actions Proposed for 2018	
	Continue to participate in regional organics / food waste collection program
	Asphalt reclamation during road construction instead of disposal of old asphalt

Corporate Actions Taken in 2017	
	Asphalt reclamation during road construction instead of disposal of old asphalt
	Continue working with contractors to reduce waste from projects (e.g. asphalt reclamation)
Corporate Actions Proposed for 2018	
	Continue working with contractors to reduce waste from projects (e.g. asphalt reclamation)

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

2017 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 2017	
	Mountain Bike Skills Event – encourages cycling as a transportation mode
	Replacing Asphalt on Peterson Road
	Continue to implement Trails and Journey ways Strategy to promote alternate modes of travel to driving.
Community-Wide Actions Proposed for 2018	
	Replacing Asphalt on Peterson Road
	Continue to implement Trails and Journey ways Strategy to promote alternate modes of travel to driving.

Corporate Actions Taken in 2017	
	Continue to encourage energy efficient means of transportation for staff
	Continue to encourage non-idling practice
Corporate Actions Proposed for 2018	
	Continue to encourage energy efficient means of transportation for staff
	Continue to encourage non-idling practice

Transportation	
Does your local government have policies, plans or programs to support:	
• Walking	Yes
• Cycling	Yes
• Transit Use	Yes
• 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)?	Yes
Does your local government integrate its transportation and land use planning?	Yes

2017 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 greenhouse gas emissions.

Community-Wide Actions Taken in 2017	
	Educate residents on water conservation
	Replace old worn water meters with new and recycle old meters
	Prioritize our Water Supply to residents in need
	Continue to use water meters
	Continue to participate in programs
	Continue to engage residents regarding water conservation
	Continue to offer low flush toilet rebate program
	Continue to use tiered water rates
	Promote water conservation through regional wide contest “Nominate Your Neighbour”
Community-Wide Actions Proposed for 2018	
	Continue with 2017 initiatives

Corporate Actions Taken in 2017	
	Prioritize water sources for residence not on community water
	Continue developing Water Master Plan
	Continue redevelopment of wells
Corporate Actions Proposed for 2018	
	Educate residents on water conservation
	Replace old worn water meters with new and recycle old meters
	Prioritize our Water Supply to residents in need
	Continue to use water meters
	Continue to participate in programs
	Continue to engage residents regarding water conservation
	Continue to offer low flush toilet rebate program
	Continue to use tiered water rates
	Promote water conservation through regional wide contest “Nominate Your Neighbour”

Water Conservation	
Does your local government have water conservation policies, plans or programs?	Yes

2017 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 • Extreme weather events contributing to urban and overland flooding • Sea level rise and storms causing coastal flooding and/or erosion 	<p>Yes</p> <p>Yes</p> <p>Yes</p>

In 2017 has your local government addressed the impacts of a changing climate using any of the following?	
Risk and Vulnerability Assessments	Yes
Risk Reduction Strategies	Yes
Emergency response planning	Yes
Asset management	Yes
Natural/Eco asset management strategies	No
Infrastructure upgrades (e.g. storm water system upgrades)	Yes
Beach Nourishment projects	No
Economic diversification initiatives	No
Strategic and financial planning	No
Cross-department working groups	Yes
OCP policy changes	Yes
Changes to zoning and other bylaws and regulations	No
Incentives for property owner (e.g. reducing storm water run-off)	No
Public education and awareness	Yes
Research	No
Mapping	Yes
Partnerships	No

Climate Change Adaptation Actions Taken in 2017	
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.	
	Develop Asset Management Plan integrate the data from the Asset Management Software to develop a strategy for identifying those assets with future environmental impact and risk to the environment
	Continue to add Variable Frequency Drives in the remaining wells.
Climate Change Adaptation Actions Proposed for 2018	
	Develop Asset Management Plan integrate the data from the Asset Management Software to develop a strategy for identifying those assets with future environmental impact and risk to the environment
	Add Variable Frequency Drives to water and sewer systems

The following are key resources that may be helpful to your local government in identifying climate impacts, as well as, strategies, actions and funding to deal with them. For those resources that you have used, please indicate whether they were useful in advancing your work in climate change adaptation?	
Indicators of Climate Change for British Columbia, 2016 Plan2Adapt Climate Projections for Metro Vancouver Climate Projections for the Capital Region Climate Projections for the Cowichan Valley Regional District Province of BC's BC Adapts Video Series Preparing for Climate Change: An Implementation Guide for Local Governments The Public Infrastructure and Engineering Vulnerability Committee's (PIEVC) protocol Sea Level Rise Primer BC Regional Adaptation Collaborative Webinars www.ReTooling.ca Water Balance Model The Water Conservation Calculator Funding: National Disaster Mitigation Program (NDMP) Community Emergency Preparedness Fund (CEPF) Municipalities for Climate Innovation Program (MCIP) Climate Adaptation Partner Grants (FCM) Infrastructure Planning Grants (MAH) Federal Gas Tax Fund	Haven't Used Haven't Used Haven't Used Haven't Used Haven't Used Haven't Used Haven't Used Haven't Used Haven't Used Haven't Used Haven't Used Useful Useful Haven't Used Useful Haven't Used Haven't Used Useful Useful

2017 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 2017	
	This year Lantzville have welcomed neighbours for a discussion about the future of their community. These neighbourly get-togethers are known as kitchen table meetings. The idea behind the kitchen table meetings is to develop a comprehensive understanding of what residents want and need when it comes to development and water within their own neighbourhoods.

Other	
Are you familiar with the Community Lifecycle Infrastructure Costing Tool (CLIC) ?	Yes
Have you used CLIC?	No

INNOVATION AND PEER-TO-PEER LEARNING

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 repeat 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 raising their profile through applications to [CEA's Climate and Energy Action Awards](#), [UBCM Climate and Energy Action Award](#), [FCM Sustainable Communities Awards](#) or through submissions to [FCM's National Measures Report](#).

Community-Wide Action
Community Wide Survey – Official Community Plan Update & Water Master Plan For more information contact:
Corporate Action
Community Wide Survey – Official Community Plan Update & Water Master Plan For more information contact:

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.

Mitigation

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

2017 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 portion of the survey, please ensure that you are familiar with guidance available on the B.C. Climate Action Toolkit website, especially the [Becoming Carbon Neutral: A Guide for Local Governments in British Columbia](#).

Please note: As a result of the BC Recycling Regulation, local governments are no longer required to account for greenhouse gas (GHG) emissions from vehicles, equipment and machinery required for the collection, transportation and diversion of packaging and printed paper, in their annual Climate Action Revenue Incentive Program (CARIP) reports.

Reporting Emissions

Did you measure your local government's corporate GHG emissions in 2017?	Yes
If your local government measured 2017 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:	40.02
If your local government measured 2017 corporate GHG emissions, please report the number of corporate GHG emissions (in tonnes of carbon dioxide equivalent) from <u>contracted</u> services:	3.83
TOTAL A: CORPORATE GHG EMISSIONS FOR 2017	43.85 tCO₂e

Reporting Reductions and Offsets

To be carbon neutral, a local government must balance their TOTAL corporate GHG emissions generated in 2017 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

If applicable, please report the 2017 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	86.6
Low Emission Vehicles	n/a
Avoided Forest Conversion	n/a
TOTAL B: REDUCTIONS FROM OPTION 1 PROJECTS FOR 2017	86.6 tCO₂e

If applicable, please report the names and 2017 GHG emissions reductions (in tonnes of carbon dioxide equivalent (tCO₂e)) being claimed from Option 2 GHG Reduction Projects:

OPTION 2 PROJECT NAME	REDUCTIONS
Did not participate in any eligible option 2 project	n/a
TOTAL C: REDUCTIONS FROM OPTION 2 PROJECTS FOR 2017	tCO₂e

If applicable, please report the name of the offset provider, type of project and number of offsets purchased (in tonnes of carbon dioxide equivalent (tCO₂e)) from an offset provider for the 2017 reporting year:

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

OFFSET PROVIDER NAME	OFFSETS
No offsets purchased	0
TOTAL D: OFFSETS PURCHASED FOR 2017	tCO₂e

TOTAL REDUCTIONS AND OFFSETS FOR 2017 (Total B+C+D) = 86.6 tCO₂e

Corporate GHG Emissions Balance for 2017

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 2017 = (A – (B+C+D)) = -42.75 tCO₂e

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

If applicable, please record any emissions reductions you will be carrying over for future years and the source of the emissions reductions, including the year they were earned (E.g., Organics diversion, 2016 100 tCO₂e).

SOURCE OF CARRY OVER EMISSION REDUCTIONS (and year earned)	REDUCTIONS
Offsets from 2016	283.27
BALANCE OF REDUCTIONS ELIGIBLE FOR CARRY OVER TO NEXT YEAR	326.02 tCO₂e

Carbon Neutral Reporting	
Does your local government have a climate reserve fund or something similar?	No

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 – 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 (i.e: 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:

Based on your local government's 2017 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	
	Level 4 - Achievement of Carbon Neutrality	√
	Not Sure	