

Climate Action Revenue Incentive (CARIP) Public Report for 2018

Local Government: Town of Lake Cowichan

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The Town of Lake Cowichan 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.

Qe	Q 6 + Q 7 Community-Wide Broad Planning Actions Taken in 2018 + Additional Actions		
	The Official Community Plan has been revised and is in the process of being passed by Council		
	Q 8 Community-Wide Broad Planning Actions Proposed for 2019		
QE	3 Community-Wide Broad Planning Actions Proposed for 2019		
QE	Community-Wide Broad Planning Actions Proposed for 2019 Continue to work on targets in OCP		

Q 9	Q 9 + Q 10 Corporate Broad Planning Actions Taken in 2018 + Additional Actions		
Q 1	Q 11 Corporate Broad Planning Actions Proposed for 2019		

Broad Planning		
Q 12 What is (are) your Reduce greenhouse gas emissions by 33% from 2007 levels		ls by
current GHG reduction	2020 and by 80% by the year 2050	
target(s)?		
Q 13 Are you familiar with your local government's community energy and emissions inventory (e.g. <u>CEEI</u> or another inventory)?		Yes
Q 14 What plans, policies or guidelines govern the implementation of climate mitigation		
in your community?	Emissions Plan	No
Community Energy and E		No
Integrated Community S	•	No
Community- Wide Clima	te Action Plan	Yes
Official Community Plan		
 Regional Growth Strateg 	У	No
 Do not have a plan 		No
Other:		No
Q 15 Does your local governmen	nt have a corporate GHG reduction plan?	Yes

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.

Q1	Q 16 + Q 17 Community-Wide Building and Lighting Actions Taken in 2018 + Additional Actions		
Q 1	Q 18 Community-Wide Building and Lighting Actions Proposed for 2019		

Q 1	Q 19 + Q 20 Corporate Building and Lighting Actions Taken in 2018 + Additional Actions		
	Replace photocopiers with new energy efficient copiers in public works and Town office		
Q 2	Q 21 Corporate Building and Lighting Actions Proposed for 2019		
	Renovate Municipal Town office to incorporate energy efficient lighting, insulation and windows		
	and energy efficient fixtures, cooling and heating options		

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

Q 22 Is your local government aware of the <u>BC Energy Step Code</u> ?	Yes/No
Q 23 Is your local government implementing the BC Energy Step Code?	Yes/No

P5 2018 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.

Q 24 + Q 25 Community-Wide Energy Generation Actions Taken in 2018 + Additional Actions	
Q 26 Community-Wide Energy Generation Actions Proposed for 2019	



Q 2	Q 27 + Q 28 Corporate Energy Generation Actions Taken in 2018 + Additional Actions		
Q2	29 Corporate Energy Generation Actions Proposed for 2019		

Energy Generation	
Q 30 Is your local government developing, or constructing a	
district energy system	No
renewable energy system	No
none of the above	
Q 31 Is your local government operating a	
district energy system	No
renewable energy system	No
none of the above	
Q 32 Is your local government connected to a district energy system that is operated by	No
another energy provider?	
Q 33 Are you familiar with the 2018 List of Funding Opportunities for Clean Energy Projects	Yes
Led by First Nations and Local Governments?	

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.

Q 3 41)	Q 34 + Q 36 Community-Wide Greenspace Actions Taken in 2018 + Additional Actions (Q 35 below Q 41)		
	Protection of wetlands and greenways is ensured through the development process		
	As has occurred in the subdivision and rezoning approvals.		
Q3	Q 37 Community-Wide Greenspace Actions Proposed for 2019		

Q 38 + Q 39 Corporate Greenspace Actions Taken in 2018 + Additional Actions



Q 40 Corporate Greenspace Actions Proposed for 2019		

Greenspace	
Q 41 Does your local government have urban forest policies, plans or programs?	No
Q 35. Does your local government have policies, plans or programs to support local food production?	No

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.

Q 4	Q 42 + Q 43 Community-Wide Solid Waste Actions Taken in 2018 + Additional Actions		
Q 4	Q 44 Community-Wide Solid Waste Actions Proposed for 2019		

Q 4	Q 45 + Q 46 Corporate Solid Waste Actions Taken in 2018 + Additional Actions		
Q 4	Q 47 Corporate Solid Waste Actions Proposed for 2019		
	Plan is to reduce organic pickups from weekly to biweekly during winter months.		

Solid Waste	
Q 48 Does your local government have construction and demolition waste reduction No	
policies, plans or programs?	
Q 49 Does your local government have organics reduction/diversion policies, plans or	Yes
programs?	

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.

Q 5	Q 50 + Q 51 Community-Wide Transportation Actions Taken in 2018 + Additional Actions		
Q 5	Q 52 Community-Wide Transportation Actions Proposed for 2019		

Q 5	Q 53 + Q 54 Corporate Transportation Actions Taken in 2018 + Additional Actions		
	Continue to upgrade municipal fleet. New vehicles are equipped with latest technology in		
	engines		
	and emission control systems which contribute to reducing greenhouse gas emissions.		
	Purchased a hybrid vehicle as part of the Town fleet		
Q 5	5 Corporate Transportation - Actions Proposed for 2019		

Transportation	
Q 56 Does your local government have policies, plans or programs to support:	
Walking	No
Cycling	No
Transit Use	No
Electric Vehicle Use	No
Other (please specify)	No
Q 57 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)?	
Q 58 Does your local government integrate its transportation and land use planning?	



2018 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.

Q 5	Q 59 + Q 60 Community-Wide Water and Wastewater Actions Taken in 2018 + Additional Actions		
	Continued water metering program		
	Co-ordination of watering guidelines with neighbouring communities		
	New water treatment plant constructed in 2018		
	Replaced water line on Greendale Road, Park and Wilson		
Qe	51 Community-Wide Water and Wastewater Actions Proposed for 2019		
	Complete final component of Water Treatment Plant		
	To replace water line on Trestle Bridge		
	Continue to replace aged infrastructure		

Qe	Q 62 + Q 63 Corporate Water and Wastewater Actions Taken in 2018 + Additional Actions		
QE	Q 64 Corporate Water and Wastewater Actions Proposed for 2019		
	Plan is to encourage current property owners who are on septic tanks (Greendale Road)		
	to connect to the municipal sewer system.		

Water Conservation	
Q 65 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.

Q 66 Please identify the THREE climate impacts that are most relevant to your Local Government.	
Warmer winter temperatures reducing snowpack	2
Changes to temperature and precipitation causing seasonal drought	3
Heatwaves impacting population health	
 Increased temperatures increasing wildfire activity 	1



- 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 (please specify): Q 67 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 Yes Asset Management 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 No **Cross-Department Working Groups** No Yes Official Community Plan Policy Changes No Changes to Zoning and other Bylaws and Regulations No Incentives for Property Owners (e.g. reducing storm water run-off) No **Public Education and Awareness** No Research No Mapping No **Partnerships** Other (please specify):

	Q 68 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.		
QE	Q 69 Climate Change Adaptation Actions Proposed for 2019		
Q7	Q 70 For more information please contact		



Q 71. The following are key resources that may be helpful to your local governme	ent in identifying climate impacts, as
well as, strategies, actions and funding to deal with them. For those resources that	at you have used, please indicate
whether they were useful in advancing your work in climate change adaptation?	
<u>Indicators of Climate Change for British Columbia</u>	Haven't Used
<u>Plan2Adapt</u>	Haven't Used
<u>Climate Projections for Metro Vancouver</u>	Haven't Used
Climate Projections for the Capital Region	Haven't Used
Climate Projections for the Cowichan Valley Regional District	Haven't Used
Province of BC's BC Adapts Video Series	Haven't Used
Preparing for Climate Change: Implementation Guide for Local Governments	Haven't Used
Public Infrastructure and Engineering Vulnerability Committee's (PIEVC)	Haven't Used
Sea Level Rise Adaptation Primer	Haven't Used
BC Regional Adaptation Collaborative Webinars	Haven't Used
Retooling for Climate Change	Haven't Used
Water Balance Model	Haven't Used
Water Conservation Calculator	Haven't Used
Funding:	
National Disaster Mitigation Program (NDMP)	Haven't Used
Community Emergency Preparedness Fund (CEPF)	Haven't Used
Municipalities for Climate Innovation Program (MCIP)	Haven't Used
Climate Adaptation Partner Grants (FCM)	Haven't Used
Infrastructure Planning Grants (MAH)	Haven't Used
Federal Gas Tax Fund	Haven't Used
Other Inlesses medify)	
Other (please specify)	

2018 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.

Q 72 Community-Wide Other Actions Taken in 2018					
Q7	Q 73 Corporate Other Actions Taken in 2018				



Other			
Q 74 Are you familiar with the Community Lifecycle Infrastructure Costing Tool (CLIC)?	Yes		
Q 75 Is your local government using the <u>CLIC</u> tool?	No		

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 <u>B.C. Climate Action Toolkit</u> 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.

Q 76 Community-Wide Innovation Action		
O 77 Compared Innervation Astion		
Q 77 Corporate Innovation Action		
Q 78 For more information on actions described above 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 separated by a forward slash (e.g. program1/program2).

Mitigation



Q 79 Mitigation Programs, Partnerships and Funding				

Adaptation

Q 80 Adaptation Programs, Partnerships and Funding					

2018 CARBON NEUTRAL REPORTING

Local governments are required to report on their progress in achieving their carbon neutral goal under the <u>B.C. Climate Action Charter</u>. 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 <u>B.C. Climate Action Toolkit website</u>, especially the <u>Workbook</u> and <u>Becoming Carbon</u> 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 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

Q 81 Did your local government measure corporate GHG emissions for 2018?	No
Q 82 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)	
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