



Climate Action Revenue Incentive (CARIP) Public Report for 2018





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The District of Squamish 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 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.

Community-Wide Broad Planning Actions Taken in 2018 + Additional Actions	
	Squamish 2040 Official Community Plan (OCP) update was adopted June 5 th , 2018 the District’s highest level community plan reaffirmed GHG emissions reduction targets, refined Smart Growth as well as alternative transportation policies for climate change mitigation. Specific directives focus on encouraging compact land use patterns that support complete neighbourhoods, infill development, providing a diversity of transportation options, and a greater mix of land uses. Emphasis is placed on active transportation and public transit as an essential part of the District transportation and land use network. The OCP also includes new universal Development Permit Area guidelines for promotion of GHG reduction and design for greater energy efficiency.
	Creation of new Development Permit Area 3 (Universal Guidelines) as part of updated OCP, including designation to establish objectives to promote reduction of GHG emissions (building design guidelines for greater energy efficiency).
	Completion of phase 2 and 3 for the Community Carbon Marketplace. The four-phases of this program involved determining the potential for a marketplace within the District of Squamish, assessing and quantifying local greenhouse gas emissions reduction projects with local businesses, offsetting the district’s credits, and implementing the region’s local Community Carbon Marketplace to encourage other businesses and individuals become carbon neutral.
Community-Wide Broad Planning Actions Proposed for 2019	
	Integrated planning for higher-density neighbourhood sub-areas and employment areas to ensure they are easily accessed by active transportation and transit networks.
	Continued expansion of the Community Carbon Marketplace and working with the Economic Development department to foster the opportunity to new and old businesses in town.
	Adopt community Greenhouse Gas Emissions (GHGe) reduction targets and implementation plan by December 2019.
	Reduce single occupancy vehicle use to reduce overall community GHGe.

Corporate Broad Planning Actions Taken in 2018 + Additional Actions	
	Establish an affordable housing governance structure in 2019 that will facilitate growth and management of affordable housing stock.
	Blower Energy Audit completed at WWTP in 2018.
Corporate Broad Planning Actions Proposed for 2019	
	Maintain organizational carbon neutrality while creating and implementing a plan to reduce District purchased offsets.
	Continue to identify policies and practices to reduce GHG emissions and work towards carbon neutrality.
	Ongoing planning for improved energy efficiency of existing and new municipal facilities, as well as reducing emissions associated with the municipal fleet.
	Work with the District's updated purchasing policy to understand and evaluate the life cycle costs and carbon implications of both large capital expenditures and ongoing purchases.
	Blower replacement design and cost estimate in 2019 followed by Blower replacement in 2020 with more efficient model and potential for BC Hydro and FCM grants to be obtained.

Broad Planning	
What is (are) your current GHG reduction target(s)?	Maintain organizational carbon neutrality while creating and implementing a plan to reduce District purchased offsets by 2022. Adopt community Greenhouse Gas Emissions (GHGe) reduction targets and implementation plan by December 2019.
Are you familiar with your local government's community energy and emissions inventory (e.g. CEEI or another inventory)?	Yes/No
What plans, policies or guidelines govern the implementation of climate mitigation in your community?	Yes/No
<ul style="list-style-type: none"> • Community Energy and Emissions Plan • Integrated Community Sustainability Plan • Community- Wide Climate Action Plan • Official Community Plan • Regional Growth Strategy • Do not have a plan • Other: 	Yes/No
Does your local government have a corporate GHG reduction plan?	Yes/ No

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.

Community-Wide Building and Lighting Actions Taken in 2018 + Additional Actions	
	Step Code was voluntarily implemented by the District of Squamish.
Community-Wide Building and Lighting Actions Proposed for 2019	
	Step Code has been voluntarily implemented by the District of Squamish and we are gradually working with contractors and developers towards BC Building Code 2022 when Step Code becomes mandatory.

Corporate Building and Lighting Actions Taken in 2018 + Additional Actions	
	Green building actions to encourage, incentivize and mandate energy efficiency practices in the design, construction, retrofitting and renovation of building (amending the Zoning Bylaw to encourage energy efficient building construction for multi-family and commercial development through density bonuses for energy efficient construction; also progressing through the BC Energy Step Code to reach net zero energy ready buildings by 2032).
	Replacement of 20 exterior HID wall-pack lights with LED. Estimated GHG savings is 0.5 tonnes per year.
	Replacement of 16 t-8 troffer fixtures with LED lighting panels for 11 kw/h savings per day or approximately 0.4 tonnes GHG per year.
	Completed the upgrade plan for the RCMP HVAC system including the replacement of 2 inefficient gas boilers. The 7 year replacement plan will commence 2020.
	Replaced 150 old metal halide DoS street lights with more efficient LED street lights in 2018.
Corporate Building and Lighting Actions Proposed for 2019	
	Implementation of BC's new Energy Step Code in the DoS Building Bylaw. A phased program was developed for Part 9 and Part 3 buildings to increasingly progress to high steps in the code.
	Continue to look for lighting upgrade and control opportunities.
	Introduce a staff personal heater policy District wide to eliminate the use of high-energy consumption heaters and replace with low wattage heaters where needed.
	Replace the existing regular glass doors at the arena lobby entrance with automatic doors. This will reduce the flow of cold and warm air between the 2 main lobbies and improve efficiency of the HVAC system.
	Installation of a ductless heat pump in the Specialist office will reduce gas consumption.
	Final stage of WWTP exterior light upgrades with LED lights.
	Replacing 350 old metal halide DoS street lights with more efficient LED streetlights.

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 Code ?	<u>Yes/No</u>
Is your local government implementing the BC Energy Step Code ?	<u>Yes/No</u>

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.

Community-Wide Energy Generation Actions Taken in 2018 + Additional Actions

Continually seeking opportunity for new generating projects.

Energy Generation	
Is your local government developing, or constructing a <ul style="list-style-type: none"> • district energy system • renewable energy system • none of the above 	<u>Yes/No</u> <u>Yes/No</u> <u>Yes/No</u>
Is your local government operating a <ul style="list-style-type: none"> • district energy system • renewable energy system • none of the above 	<u>Yes/No</u> <u>Yes/No</u>
Is your local government connected to a district energy system that is operated by another energy provider?	<u>Yes/No</u>
Are you familiar with the 2018 List of Funding Opportunities for Clean Energy Projects Led by First Nations and Local Governments?	<u>Yes/No</u>

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.

Community-Wide Greenspace Actions Taken in 2018 + Additional Actions	
	The “River Estuary Education Program, Wild for Salmon” was delivered by the Squamish River Watershed Society and continued into another successful season which included attendance by local students throughout Squamish.
	Squamish Climate Action Network (CAN) has continued success with community participation and operates three community gardens, two in the heart of downtown (corner of Cleveland Ave. & Main St., and corner of 2nd Ave & Main St.), and one in the Garibaldi Highlands (corner of Hwy 99 and Mamquam Rd.)
Community-Wide Greenspace Actions Proposed for 2019	
	The updated Official Community Plan has designated increased District Green Space and allocated sensitive areas to reduce development of sensitive habitats and to maintain green spaces within the community.
	The District has updated its real-estate strategy and anticipates a significant amount of land acquisitions (purchases and rights-of-way) to support important community needs including: Environmental – greenspaces, environmentally sensitive areas, stormwater retention.

Corporate Greenspace Actions Taken in 2018 + Additional Actions	
	Adoption of Tree Management Bylaw, which creates incentive to reduce tree removal and requires replanting and retention in many situations.
	Designation of Conservation and Ecological Reserve areas in the Squamish2040 OCP and rezoning of the Squamish River Estuary conservation.
	Rezoned lands within the District's boundary as a wellhead protection zone for long-term protection of the community water system.
Corporate Greenspace Actions Proposed for 2019	
	Continued development of a soils bylaw.
	Continued development of an invasive species bylaw.
	Squamish Community Forest governance agreement signed with the Squamish Nation for co-management of 10,000 hectares of forest land within the community.

Greenspace	
Does your local government have urban forest policies, plans or programs?	<u>Yes/No</u>
Does your local government have policies, plans or programs to support local food production?	<u>Yes/No</u>

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.

Community-Wide Solid Waste Actions Taken in 2018 + Additional Actions	
	<p>Other Climate Action Network include:</p> <ul style="list-style-type: none"> • Reuse It fair: Annual event to off load or gain items instead of throwing items away and other buying new items. • Repair Café: Opportunity for public to have items required to prevent disposal of items.
	<p>Continued commitment to community events from the Climate Action Network:</p> <ul style="list-style-type: none"> • Reuse it Fair: Annual event to off load or gain items instead of throwing items away and other buying new items. • Repair Café: Opportunity for public to have items required to prevent disposal of items.
Community-Wide Solid Waste Actions Proposed for 2019	
	<p>Continued commitment to community events from the Climate Action Network:</p> <ul style="list-style-type: none"> • Reuse it Fair: Annual event to off load or gain items instead of throwing items away and other buying new items. • Repair Café: Opportunity for public to have items required to prevent disposal of items.

Corporate Solid Waste Actions Taken in 2018 + Additional Actions	
	Outreach and workshops held to assist community with transition to new Source Separation bylaw.
Corporate Solid Waste Actions Proposed for 2019	
	In 2019, the DoS will be designing a landfill gas capture system to capture and destroy greenhouse gases produced by the Squamish Landfill, before they enter the atmosphere. The build of the project will occur in 2020 and has been budgeted for. This project the DoS is doing without being required by Regulations, as the amount of GHG's produced at the Squamish Landfill are under the threshold for installing a landfill gas capture system.
	New Solid Waste and Recycling facility design guidelines under development.
	The DoS has provided the collection of 14 additional weeks of curbside organic collection (as we have done in the past) to encourage residents to continue using their organic bins (despite any smell or bugs that come with summer heat).

	Have begun sponsoring a theatrical production in elementary schools about zero waste and recycling. Will be supported every 3 years.
	Enforcement of source separation for multifamily home, institutional, commercial, and industrial.
	Council directed staff to regulate the distribution of plastic checkout bags and drinking straws.

Solid Waste	
Does your local government have construction and demolition waste reduction policies, plans or programs?	<u>Yes/No</u>
Does your local government have organics reduction/diversion policies, plans or programs?	<u>Yes/No</u>

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.

Community-Wide Transportation Actions Taken in 2018 + Additional Actions	
	Signed partnership agreement and business membership with Modo to bring two Modo vehicles to Squamish.
	Hired consultant to assist with Bike to Work Week events and promotion.
	Transit expansions and two added new routes and service hours to provide extended Friday and Saturday evening service and increased frequency on the core transit network.
Community-Wide Transportation Actions Proposed for 2019	
	Continued development and promotion of Bike to Work Week events.

Corporate Transportation Actions Taken in 2018 + Additional Actions	
	Three purchased e-bikes provided District staff a transportation method with reduced carbon foot print.
	Initiated design projects for two downtown bike routes (Pemberton Avenue protected bike lanes and Victoria Street neighbourhood way).
	Continued to require developers to incorporate AT infrastructure, bike rooms into new development projects.
	Continued to implement the Active Transportation Plan, \$700,000 budget annually for AT infrastructure improvements.
	Completed the School Travel Planning Program (2015-2018), school travel plans for six elementary schools.

Corporate Transportation - Actions Proposed for 2019	
	Growth of e-bike fleet to provide more accessibility for staff to use e-bike instead of motorized vehicles for work related transportation.
	Continue to seek projects and opportunities to improve fleet and reduce emissions.

Transportation	
Does your local government have policies, plans or programs to support: <ul style="list-style-type: none"> • Walking • Cycling • Transit Use • Electric Vehicle Use • Other (please specify) 	Yes/No Yes /No Yes/No Yes/No Yes/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 behaviour)?	Yes/No
Does your local government integrate its transportation and land use planning?	Yes/No

2018 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 GHG emissions.

Community-Wide Water and Wastewater Actions Taken in 2018 + Additional Actions	
	Continued development of our water conservation and wastewater source control programs. Public outreach actions have been undertaken through door-to-door campaigning and an educational booth at the farmer’s market and community events.
Community-Wide Water and Wastewater Actions Proposed for 2019	
	Continued development of our water conservation and wastewater source control programs. Public outreach actions have been undertaken through door-to-door campaigning and an educational booth at the farmer’s market and community events.

Corporate Water and Wastewater Actions Taken in 2018 + Additional Actions	
	Implemented use of irrigation well at Hendrickson Field as non-potable water source.
	Development and construction zones transitioned to non potable water only for dust suppression.
Corporate Water and Wastewater Actions Proposed for 2019	
	Continuing implementation of the Water Conservation Plan and enforcement of the Outdoor Water Use Bylaw.

	Waste Water Treatment Plan WWTP Upgrade Planning Studies.
	New signage development to communicate to community water level restrictions.

Water Conservation	
Does your local government have water conservation policies, plans or programs?	<u>Yes/No</u>

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.

Please identify the THREE climate impacts that are most relevant to your Local Government.	
<ul style="list-style-type: none"> Increased temperatures increasing wildfire activity Extreme weather events contributing to urban and overland flooding Sea level rise and storms causing coastal flooding and/or erosion 	
Other (please specify):	
In 2018 has your local government addressed the impacts of a changing climate using any of the following?	
Risk and Vulnerability Assessments	<u>Yes/No</u>
Risk Reduction Strategies	<u>Yes/No</u>
Emergency Response Planning	<u>Yes/No</u>
Asset Management	<u>Yes/No</u>
Natural/Eco Asset Management Strategies	<u>Yes/No</u>
Infrastructure Upgrades (e.g. stormwater system upgrades)	<u>Yes/No</u>
Beach Nourishment Projects	<u>Yes/No</u>
Economic Diversification Initiatives	<u>Yes/No</u>
Strategic and Financial Planning	<u>Yes/No</u>
Cross-Department Working Groups	<u>Yes/No</u>
Official Community Plan Policy Changes	<u>Yes/No</u>
Changes to Zoning and other Bylaws and Regulations	<u>Yes/No</u>
Incentives for Property Owners (e.g. reducing storm water run-off)	<u>Yes/No</u>
Public Education and Awareness	<u>Yes/No</u>
Research	<u>Yes/No</u>
Mapping	<u>Yes/No</u>
Partnerships	<u>Yes/No</u>

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.

In 2018 we completed the Community Wildfire Protection Plan (CWPP) through a \$25,000 grant from the UBCM Strategic Wildfire Prevention Initiative, which will help the DOS in wildfire mitigation and risk reduction initiatives. As the average temperature in Squamish is expected to increase to between 1.9 and 5 degrees above present temperatures, and it is anticipated that there will be less summertime precipitation. This all points to drier fuels, fire weather conducive to higher intensity fires, higher fire behavior potential, and greater potential for ignition. The CWPP is the first step in the wildfire mitigation process for Squamish, and consists of a comprehensive risk assessment and 48 recommendations for reducing our community risk profile over the coming years.

Continued river dike upgrades.

Climate Change Adaptation Actions Proposed for 2019

The Sea to Sky Multimodal Evacuation Plan which will be released on the 21st May is an example of a Climate Change Adaptation Action, as we are preparing the community for a mass evacuation in response to the increased likelihood of a major emergency caused by a natural disaster. In Squamish, climate change has resulted in unpredictable and more concentrated precipitation patterns, and hotter drier conditions in summer- both of these factors contribute to the increased risk of experiencing major flooding and wildfire which could displace the entire community. Over the last two years BC has experienced its worst flooding and wildfire seasons on record, in terms of both the magnitude and severity of the events.

Squamish’s Multimodal Evacuation Plan is proactive in the face of climate change-induced hazards. It outlines the processes and resources required for implementing a mass evacuation, so that when a natural hazard impacts our town we are prepared and ready to respond. The overall resiliency of the community will be increased as local officials and residents are better prepared to manage a major emergency.

2018 CARBON NEUTRAL REPORTING

Local governments are required to report on their progress in achieving their carbon neutral goal under the [B.C. 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 [Workbook](#) and [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 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 your local government measure corporate GHG emissions for 2018?	Yes/No
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)	1065tCO ₂ e
If your local government measured 2018 corporate GHG emissions, please report the number of corporate GHG emissions from contracted services (in tonnes of carbon dioxide equivalent)	171tCO ₂ e
TOTAL A: CORPORATE GHG EMISSIONS FOR 2018 (Direct GHGs + Contracted GHGs)	1236tCO₂e

Reporting Reductions and Offsets

To be carbon neutral, a local government must balance their TOTAL corporate GHG emissions generated in 2018 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

For more information about options to balance or offset corporate GHG emissions please refer to [Becoming Carbon Neutral: A Guidebook for Local Governments in British Columbia](#).

If applicable, please report the 2018 GHG emissions reductions (in tonnes of carbon dioxide equivalent (tCO₂e)) being claimed from any of the following Option 1 GHG Reduction Projects:

OPTION 1 PROJECTS	REDUCTIONS
Energy Efficient Retrofits (in tonnes of carbon dioxide equivalent (tCO ₂ e))	
Solar Thermal (in tonnes of carbon dioxide equivalent (tCO ₂ e))	
Household Organic Waste Composting (in tonnes of carbon dioxide equivalent (tCO ₂ e))	1080tCO ₂ e
Low Emission Vehicles (in tonnes of carbon dioxide equivalent (tCO ₂ e))	
Avoided Forest Conversion (in tonnes of carbon dioxide equivalent (tCO ₂ e))	
TOTAL B: REDUCTIONS FROM ALL OPTION 1 PROJECTS FOR 2018	1080tCO₂e

Offsets

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 2018 reporting year:

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

Offset Provider Name	OFFSETS
Community Carbon Marketplace, West Coast Railway Museum: ground based heat exchange project (offsetting natural gas)	126tCO ₂ e
Offsets (tCO ₂ e)	
Community Carbon Marketplace, Sea to Sky Soils: organic waste diversion project.	31tCO ₂ e
Offset Provider Name	
TOTAL D: OFFSETS PURCHASED FOR 2018	156tCO₂e



TOTAL REDUCTIONS AND OFFSETS FOR 2018 (Total B+C+D) =1236tCO₂e

Corporate GHG Emissions Balance for 2018

Your local government's Corporate GHG Emissions Balance is the difference between total corporate offsetable GHG emissions (direct + contracted emissions) and the GHG emissions reduced through GCC Option 1 and Option 2 projects and/or the purchase of offsets.

Q 96 CORPORATE GHG EMISSIONS BALANCE FOR 2018 = (A – (B+C+D)) = 0tCO₂e

**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 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 (e.g. 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.

Based on your local government's 2018 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	Level 4