

Climate Action Revenue Incentive (CARIP) Public Report for 2017

Local Government:
City of Coquitlam



Report Submitted by:
Name: Mark Bebawy
Role: Energy Specialist
Email: MBebawy@coquitlam.ca
Phone: 604-927-4304

Date: May 31st, 2018

The City of Coquitlam 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 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	
	Completed Phase 3 of the Northwest Burke Vision planning process and adopted the Northwest Burke Vision. Continued to engage citizens in the planning process during NBV community information sessions and defined areas for development that respect the natural landscape features, are contiguous with existing development and servicing, and promote the preservation of open spaces and environmentally sensitive areas.
	Completed the Burquitlam-Lougheed Neighbourhood Plan update. Community engagement actions included: information sessions, online survey, public advisory group, Commercial Property Owners workshop, Neighbourhood Association meetings, presented to the Multiculturalism Advisory Committee, and engaged with the City of Burnaby.
	Continued work on the review of the Housing Choices program (completed Phase 1 and initiated Phase 2) – a process to explore infill opportunities for different housing types in Southwest Coquitlam.
	Completed the Austin Heights Centre Density and Height Review in the Austin Heights neighbourhood of Coquitlam.
	Continued work on the Coquitlam Centre mall master plan framework, working with the land owner to focus future mixed-use and high-density residential development around Skytrain stations in the City Centre area.
	Initiated the City Centre Area Plan, which will determine the long-term vision for the city centre area of Coquitlam, envisioned to be a high-density walkable mixed-use downtown for the northeast sector focussed around Skytrain stations.
Community-Wide Actions Proposed for 2018	
	Continue working towards the completion of Phase 2 of the Housing Choices Program review.
	Work towards the completion of the Coquitlam Centre mall master plan framework and Phase 1 redevelopment.
	Continue working on the City Centre Area Plan (complete Phase 1 and initiate Phase 2).
	Initiated the Oakdale Land Use Designation Update, an implementation item in the Burquitlam - Lougheed Neighbourhood Plan which will determine appropriate land uses for

	the Oakdale neighbourhood and guide development for the next 25 years. The project will involve extensive public consultation to ensure any proposed changes fit the vision of both neighbourhood residents and stakeholders.
--	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Corporate Actions Taken in 2017	
	Adopted a new Corporate GHG emission reduction target of 40% below 2007 levels by 2025 (complete).
	Continued to develop and implement the Strategic Energy Management Plan, which outlines the projects and strategy to achieve further energy reductions.
Corporate Actions Proposed for 2018	
	Ongoing Development of the Strategic Energy Management Plan and accelerated progression with regards to Implementation.
	Continue implementing energy conservation and awareness programs through the Energy Wise Network.
	Conduct a complete feasibility analysis for Step Code Adoption
	Initiate implementation for street light LED retrofit
	Conduct fleet review and optimization considering EV conversions wherever applicable

Broad Planning	
What is (are) your current GHG reduction target(s)?	<p>Community targets to reduce GHG emissions by 15% below 2007 levels by 2031 and per capita annual GHG emissions 30% below 2007 levels by 2021.</p> <p>Corporate targets to reduce GHG emissions 30% below 2007 levels by 2015. New targets set in 2017 to reduce corporate GHG emissions by 40% below 2007 levels by 2025.</p>
Are you familiar with your community's community energy and emissions inventory (e.g. CEEI or another inventory)?	Yes
<p>What plans, policies or guidelines govern the implementation of climate mitigation in your community?</p> <ul style="list-style-type: none"> • Community Energy and Emissions (CEE) Plan • Community- Wide Climate Action Plan • Integrated Community Sustainability Plan • Official Community Plan (OCP) • Regional Growth Strategy (RGS) • Do not have a plan • Other: Green Development Guide 	<p>Yes</p> <p>Yes</p> <p>No</p> <p>Yes</p> <p>Yes</p> <p>No</p> <p>Yes</p>
Does your local government have a corporate GHG reduction plan?	Yes

2017 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 Actions Taken in 2017	
	Continued to implement mixed-use and apartment residential development around future Evergreen Line station areas, including City Centre, Lougheed and Burquitlam to support greater use of transit.
	Continued progress on the Northwest Burke Vision planning process and adopted the Northwest Burke Vision.
	Continued progress on the Burquitlam- Lougheed Neighbourhood Plan update which includes higher levels of housing density and adopted the Plan.
Community-Wide Actions Proposed for 2018	
	Continue working on the City Centre Area Plan update. Continue to engage citizens in the planning process and promote development of transit-oriented communities consisting of mixed land uses and diverse housing opportunities.
	Initiate and continue progress on the Oakdale Land Use Designation Update, which is a neighbourhood adjacent to rapid transit SkyTrain infrastructure and will involve extensive community engagement to determine the appropriate longterm land uses for the area.

Corporate Actions Taken in 2017	
	Installed energy efficient exterior lighting at Austin Works Yard.
	Developed, defined and approved a city-wide LED street lighting retrofit strategy.
	Investigated opportunities for solar heating at outdoor pools and solar photovoltaic technology for civic facilities.
	Upgraded the hot water and boiler system at the Coquitlam Public Library to eliminate simultaneous heating and cooling in the summer.
	Upgraded the domestic hot water heater at the Austin Works Yard to a higher efficiency model.
	Upgraded boiler at Poirier Community Centre to high-efficiency model.

	Installed LED lighting at the Poirier Sports and Leisure Complex pool.
	Installed LED lighting at four fire stations and Dogwood Pavilion.
	Implemented a pilot project to test a water-treatment product that improves heat transfer within heating and boiler systems.
Corporate Actions Proposed for 2018	
	Design and Implementation for first phase of LED street lighting retrofit
	Continue feasibility study on solar heating at outdoor pools and solar photovoltaic technology for civic facilities.
	Conduct a comprehensive energy study at Poirier Sports and Leisure Complex and plan 2019 projects accordingly to improve building performance and reduce energy consumption / GHG emissions.
	Conduct a comprehensive energy study at Evergreen Cultural Center and plan 2019 projects accordingly to improve building performance and reduce energy consumption / GHG emissions.
	Conduct a comprehensive energy study at City Hall and plan 2019 projects accordingly to improve building performance and reduce energy consumption / GHG emissions.
	Conduct a comprehensive energy study at City Centre Aquatic Complex and plan 2019 projects accordingly to improve building performance and reduce energy consumption / GHG emissions.
	Install DDC controls at Austin Firehall and Mariner Firehall

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

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	
	N/A
Community-Wide Actions Proposed for 2018	
	Feasibility study for a solar demonstration at Lake Lafarge Park to offset Christmas Lights at the lake

Corporate Actions Taken in 2017	
	N/A
Corporate Actions Proposed for 2018	
	Feasibility study for solar installs on City buildings to offset demand

Energy Generation	
Is your local government developing, or constructing: <ul style="list-style-type: none"> • A district energy system • A renewable energy system 	No Yes
Is your local government operating: <ul style="list-style-type: none"> • A district energy system • A renewable energy system 	Yes 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
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 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	
	Planted approximately 4,000 native trees and shrubs as part of the 5,000 square meters of restored and enhanced forest habitat
	Engaged with local community groups, including school groups, churches and interested residents for invasive plant pulls and tree plantings, totalling 230 volunteers.
	Attended City events including Canada Day, Poirier Farmers Market and Salmon Come Home to educate the public about invasive plants and their impact on our forested habitats.
Community-Wide Actions Proposed for 2018	
	Restore and plant a comparable area of forest habitat as the previous year.
	Engage with local community groups and residents to participate in invasive plant pulls and tree plantings.

Engage residents to plant 30 specimen trees on their boulevards through the Growing Community Roots program.

Corporate Actions Taken in 2017	
	Continued implementing some aspects of the Mundy Park Forest Management Plan, including invasive plant removal, unsanctioned trail decommissioning and tree planting enhancements.
	Used the invasive plant inventory to prioritize and remove invasive plants in parkland.
Corporate Actions Proposed for 2018	
	Continue to use the invasive plant inventory to prioritize and remove invasive plants in parkland.
	Continue to implement aspects of the Mundy Park Forest Management Plan, including invasive plant removal, closure of unsanctioned trails in sensitive habitat areas and installing barriers to sensitive habitat areas.

Greenspace	
Does your local government have urban forest policies, plans or programs?	Yes
Does your local government have policies, plans or programs to support local food production?	Yes

2017 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 2017	
	Designed new garbage and recycling collection zones in an effort to help minimise wildlife conflicts by speeding up collection in bear-prone areas and minimising the time carts remain at the curb. The changes were successfully implemented in March 2018.
	Continued to implement public communication campaigns to educate residents on the importance of separating food waste and recyclables from the garbage stream.
	Continued the enforcement of cross-contamination of green carts and garbage carts to ensure a high rate of residential waste diversion.
	Continued to implement an award-winning school program, developed by staff, to provide waste reduction educational presentations and activities tailored for different grade levels.
	Conducted over 15 presentations to community groups in an effort to educate more residents

	on the importance of waste separation, focusing on ESL groups and newcomers to the City.
	Increased the level of service and reduced illegal dumping at the existing City-owned residential recycling depot by staffing the facility full time during operating hours.
	Expanded the range of recyclables accepted at the City-owned recycling depot to include Styrofoam and household batteries.
	To encourage residents to recycle excess yard trimmings year round, the City completed an agreement with Metro Vancouver in which the City covers the costs of yard trimmings dropped off by residents at the regional green waste transfer facility.
Community-Wide Actions Proposed for 2018	
	Update and revise the Solid Waste Management bylaw to improve waste diversion and decrease contamination of the organics stream.
	Explore possibility of a City-wide curbside swap event to promote reuse of household items.
	Participate in a cost sharing agreement to construct and operate a new regional recycling centre within the City which will offer free drop off of 30 categories of recyclable items.
	Conduct City-wide contamination audit to ascertain level of compliance with waste separation directions and to identify neighbourhoods where more education and/or enforcement may be required.

Corporate Actions Taken in 2017	
	Conducted waste audits at 6 major facilities and a staff survey to help assess and implement improvements and updates to the recycling programs in City facilities.
	Improved recycling signage and increased the number of recycling bins at a number of facilities to increase waste diversion by staff and patrons.
	Recruited Waste Ambassadors from several civic facilities to assist in continuing promotion of the new recycling system.
Corporate Actions Proposed for 2018	
	Use results from waste audits and staff survey to expand the number of recyclables collected through the City's civic facility recycling program and expand the team of Waste Ambassadors.
	Improve communications materials specific to each facility to increase waste diversion by staff and patrons.

Solid Waste	
Does your local government have construction and demolition waste reduction policies, plans	Yes

or programs?	
Does your local government have organics reduction/diversion policies, plans or programs?	Yes

2017 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 2017	
	Increased bike route infrastructure by 7.4 km for a total of 63.4 km of bike lanes, multi-use pathways, local bikeways and marked wide curb lanes
	Continued to work with Modo and Zip-Car to expand their Coquitlam car-sharing fleet, particularly around Evergreen Line Stations
	Offered four subsidized Ride the Road courses through Parks, Recreation & Culture for 32 children aged 3 to 7 that were conducted by HUB in Coquitlam
	Constructed approximately 0.4 km of new sidewalks under the Sidewalk Program
	Awarded grants through TransLink's Bicycle Infrastructure Capital Cost-Share (BICCS) and Walking Infrastructure to Transit (WITT) funds
	Promoted sustainable transportation at Coquitlam's Canada Day and Welcome to Coquitlam events
	Implemented additional wayfinding signage along the Evergreen Line Pinetree Corridor
	Sponsored four cycling commuter stations during Bike to Work Week in May (2) and October (2)
	Offered four basic bike maintenance courses at Poirier Library, City Centre Library, Victoria Hall and Mundy Park
Community-Wide Actions Proposed for 2018	
	Continue expanding and enhancing bike route infrastructure, including the Lougheed-Sharpe Greenway (1.2 km) and Hillcrest-Como Lake Greenway (3.0 km)
	Continue expanding sidewalk infrastructure, including approximately 2.0 km of new sidewalks built under the Sidewalk Program, and 1.0 km of new sidewalks under the Frontage Works Program
	Continue to support the expansion of car-sharing in Coquitlam
	Work with TravelSmart to promote sustainable transportation at events in the City (e.g. Kaleidoscope multicultural fair)
	Continue to promote sustainable transportation at Coquitlam's Canada Day and Welcome to Coquitlam events
	Continue to sponsor commuter stations for Bike to Work Week
	Developing regulations to require electric vehicle charging infrastructure in new multi-family developments.
	Bring forward amendments to the Subdivision and Development Servicing Bylaw to establish LED

	lighting as the standard light source for all new City street lights.
	Implement a 5-year asset replacement program to equip all of our existing street lights with LED smart lighting technology
	Update the traffic signal co-ordination timing plans along the Evergreen Line routes to minimize travel times and stops and maximize safety.

Corporate Actions Taken in 2017	
	Reviewed fleet and employee personal vehicle usage to optimize fleet and ensure emissions are minimized
	Continued to enforce anti-idling policy using GPS tracking and issuing reports to the user's department
	Continued to right-size fleet and replace existing vehicles with hybrids when leases expire
	Promoted staff participation in Bike to Work Week
	Promoted staff participation in the Commuter Challenge
	Offered a bike maintenance workshop for staff conducted by HUB at Austin Works Yard in May 2017
	Organized a ride share matching session with prospective staff who are interested in carpooling
	Continued to provide preferential rideshare parking spots
Corporate Actions Proposed for 2018	
	Continue to monitor and implement enhancements to the Employee Sustainable Commute Program (including car sharing, transit, cycling, walking and parking management)
	Continue to promote usage of the electric vehicle by staff
	Continue to promote anti-idling policy and track through GPS
	Continue to right-size fleet and replace existing vehicles with hybrids or plug-in hybrid electric vehicles where possible
	Offer a bike maintenance workshop for staff conducted by HUB at City Centre Aquatic Complex in May 2018
	Continue to promote Bike to Work Week and the Commuter Challenge

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 Yes Yes 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 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	
	Deployed three seasonal water conservation bylaw officers to enforce seasonal watering restrictions under Water Shortage Response Plan Bylaw No. 3701, 2005, between May 15 and October 15.
	Developed an online payment system to allow residents to apply for their new lawn water exemption permits and pay the permit fee online. The online payment system improves the efficiency of processing water exemption permits and gives residents the convenience to complete the application process remotely.
	Delivered water conservation outreach and education through door-to-door interaction and at local outreach events. Staff also designed a new interactive activity that teaches children about our local drinking water source and water infrastructure.
	Acquired funding from FortisBC to develop an interactive activity titled, "Save Water and Energy at Home" to engage a young audience on water and energy conservation.
	Maintained a Tri-Cities "Beetle Mania" campaign in to deliver outreach and education on European Chafer beetle management including lawn care best management practices. The campaign was delivered through a variety of communication channels including online social media and the local newspaper.
	The City continues to require new developments to install landscapes with sufficient topsoil depth as a rainwater management measure.
	Hosted free Coquitlam Watershed tours in collaboration with Metro Vancouver to celebrate BC Drinking Water Week.
	Implemented a clothes washer appliance rebate program in partnership with BC Hydro in the spring and fall. Under the program, the City matches BC Hydro's rebate offer of \$50 for the purchase of select high-efficiency clothes washer appliances.
	Maintained at-cost sales of rain barrels, Water Wise Kits, and electronic water timers as water conservation tools to residents.
	Implemented a Tri-Cities rain barrel truckload sale event in collaboration with the Cities of Port Moody and Port Coquitlam.
	Hosted educational workshops at the City's Inspiration Garden that included promoting water wise gardening.
	Funded water conservation school programs at Coquitlam schools through DreamRider Theatre that reached over 1,000 students and approximately 55 teachers.
	Maintained a comprehensive outreach campaign to promote the seasonal watering restrictions. Staff promoted the restrictions through a variety of communication channels including online social media, local newspaper, and signage posted along major transportation routes.
Community-Wide Actions Proposed for 2018	
	Upon replacing the City's Water Shortage Response Plan Bylaw with the new Drinking Water

	Conservation Plan Bylaw, staff will deploy three seasonal bylaw officers to enforce the new watering restrictions from May 1 to October 15.
	Update the existing water conservation campaign to adopt the new watering restrictions changes and incorporate Metro Vancouver's messaging to reflect that the watering restrictions changes apply to the entire region.
	Continue delivering outreach and education through door to door campaign and at local community events to promote the new watering restrictions and the City's water conservation program.
	Continue maintaining the European Chafer beetle management outreach campaign that includes lawn care best management practices.
	Continue hosting BC Drinking Water Week in Coquitlam by offering free public tours to the Coquitlam watershed. The event will be held on May 13, 2018 this year.
	Maintain the BC Hydro clothes washer appliance rebate program in the spring and fall.
	Continue offering at-cost sales of rain barrels, water wise kits and electronic water timers to residents.
	Host the rain barrel truckload sale event in partnership with the City of Port Coquitlam. The event will be held on May 5, 2018 this year.
	Continue hosting educational workshops at the City's Inspiration Garden to promote water wise gardening.
	Continue funding water conservation school programs at Coquitlam schools every year.

Corporate Actions Taken in 2017	
	Employed three seasonal water conservation bylaw officers from May 1 to the beginning of October to enforce the Water Shortage Response Plan Bylaw and deliver water conservation outreach and education.
	Enhanced the City's water conservation campaign to maintain consistency with Metro Vancouver's water conservation messaging.
	Consulted with Metro Vancouver and provided feedback on the proposed changes to the regional Water Shortage Response Plan. In June 2017, the Plan was replaced with the new Drinking Water Conservation Plan which includes tighter restrictions on the watering of lawns, gardens, trees and shrubs, among other water use restrictions.
Corporate Actions Proposed for 2018	
	Relace the City's Water Shortage Response Plan Bylaw with the new Drinking Water Conservation Plan Bylaw and adopted Metro Vancouver's new changes to the watering restrictions.
	Staff will implement the updated water conservation campaign to promote the new watering restrictions changes. The campaign will include delivering an announcement of the new changes to every single-family residential home in Coquitlam.
	Continue attending regular regional Water Conservation Coordinators' Committee meetings to share updates with neighbouring municipalities and with Metro Vancouver.

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>
Other:	

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	Yes
Infrastructure upgrades (e.g. storm water system upgrades)	Yes
Beach Nourishment projects	No
Economic diversification initiatives	Yes
Strategic and financial planning	Yes
Cross-department working groups	No
OCP policy changes	No
Changes to zoning and other bylaws and regulations	Yes
Incentives for property owner (e.g. reducing storm water run-off)	Yes
Public education and awareness	Yes
Research	Yes
Mapping	Yes
Partnerships	Yes

Other:

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.	
	Review policies for land development in floodplains.
	Investigate opportunities to develop a climate change adaptation strategy.
	Continue to implement the City’s Rainwater Management Requirements to adapt to an increase in quantity and frequency of rainfall anticipated from climate change. Requirements to capture and infiltrate rainfall are applied to all new developments.
	Continued to implement and monitor the integrated watershed management plans for all urban watersheds. IWMPs balance land development, engineering and environmental objectives to preserve watershed health. The plans incorporate actions that support ecosystem based adaptation to climate change in urban areas.
	Continued to offer the Building Better program which showcases projects that use sustainable building practices, including, pervious asphalt, rain gardens, and bio swales.
Climate Change Adaptation Actions Proposed for 2018	
	Continue implementing actions from 2017
For more information please contact:	
	Steffanie Warriner

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	Useful Useful Haven't Used Haven't Used Not Useful Haven't Used Useful Useful Haven't Used Useful Haven't Used Useful Useful Haven't Used Haven't Used Useful Useful Haven't Used Useful
Other:	

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 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

In 2016, the City launched the Empower Me Program in partnership with FortisBC and BC Hydro, which is a pilot program that offers in-language, peer-to-peer support to immigrant residents to help them save energy and make their homes safer. From January to December, 164 Coquitlam homes participated in the program, outreach was provided at 37 community events, and nearly 4,000 people were engaged through events and home visits. In September, the Empower Me Partnership was recognized at the Union of BC Municipalities' Climate & Energy Action Awards with honourable mention for Public Sector Organization and Local Government Collaboration.

In 2017 and leading into 2018, the City of Coquitlam is participating in a comprehensive energy study that involves four of its largest buildings: City Hall, Poirier Sports and Leisure Complex, City Centre Aquatic Complex and evergreen Cultural Centre. The Study focuses on improving the overall performance of the buildings, reducing Green House Gas emissions and improving occupant comfort while maintaining all the community services offered.

Engaging organizations outside of the City's conventional corporate facilities allows the City to connect with a diverse group of community members on a more personal level. The initiatives described above go beyond typical corporate outreach strategies, creating fun and informative educational programs that influence energy conservation behaviours of the greater community.

For more information contact: Mark Bebawy

Corporate Action

Since 2010, the City's corporate green team, the Carbon Cutters, with support from BC Hydro and Fortis BC, have implemented more than 25 campaigns engaging staff in energy conservation behaviours. The team of 12 staff members, from 9 different divisions, supports operational and behavioural changes to achieve energy reductions, and these efforts have collectively resulted in reducing approximately 500,000 kWh annually, which represents approximately \$50,000 in energy cost savings. Building on the success of this program in targeting City operations, in 2015, the Carbon Cutters began connecting with facilities that are owned by the City but are operated by third parties, such as Place des Arts, the Coquitlam Libraries and the Evergreen Cultural Centre. Reaching out to the greater community, through the City's not for profit societies, is a creative way to educate and shift behaviours of a broader audience and is not a standard practice for most municipalities. These campaigns are designed to engage staff in energy conservation activities and raise public awareness of the benefits of energy conservation and the rebate programs available to residents.

At Place des Arts, the Carbon Cutters supported the creation of customized energy conservation campaigns, which drew more than 1,100 patrons to art workshops directly related to fighting energy waste. Place des Arts' participation and creativity was highlighted as a best practice at the 2016 BC Hydro Energy Management Forum, the Fortis Energy Specialist Workshop and was recognized at the City's Environmental Achievement Awards. The program at Place des Arts was also showcased in BC Hydro's Stories and Features webpage at the beginning of 2017:

<https://www.bchydro.com/news/conservation/2017/place-des-arts.html>. Building on the success of this program, Place des Arts and the City of Coquitlam, with support from Fortis BC, are implemented an energy conservation themed arts camp in August 2017.

In 2017, the City of Coquitlam is also partnered with the Evergreen Cultural Centre to create an energy conservation engagement program targeting school aged children, cultural centre staff and visitors to the centre. The program promoted energy conservation behaviours through visual and performing arts.

For more information contact: Mark Bebawy

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
<ul style="list-style-type: none"> • BC Hydro partnership in various energy efficiency programs • FortisBC partnership in various energy efficiency programs

Adaptation

Programs and Funding
<ul style="list-style-type: none"> • Municipalities for Climate Innovation Program administered by the Federation of Canadian Municipalities.

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:	4883 tCO ₂ e

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:	900 tCO ₂ e
TOTAL A: CORPORATE GHG EMISSIONS FOR 2017	5783 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	0 tCO ₂ e
Solar Thermal	0 tCO ₂ e
Household Organic Waste Composting	2,666 tCO ₂ e
Low Emission Vehicles	0 tCO ₂ e
Avoided Forest Conversion	0 tCO ₂ e
TOTAL B: REDUCTIONS FROM OPTION 1 PROJECTS FOR 2017	2666 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
TOTAL C: REDUCTIONS FROM OPTION 2 PROJECTS FOR 2017	0 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
TOTAL D: OFFSETS PURCHASED FOR 2017	0 tCO2e

TOTAL REDUCTIONS AND OFFSETS FOR 2017 (Total B+C+D) = 2666 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)) = 3117 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
BALANCE OF REDUCTIONS ELIGIBLE FOR CARRY OVER TO NEXT YEAR	0 tCO2e

Carbon Neutral Reporting	
Does your local government have a climate reserve fund or something similar?	Yes

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 – 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:

PROJECT NAME:

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:

<input type="checkbox"/>	Level 1 – Demonstrating Progress on Charter Commitments	
<input type="checkbox"/>	Level 2 – Measuring GHG Emissions	
<input checked="" type="checkbox"/>	Level 3 – Accelerating Progress on Charter Commitments	YES
<input type="checkbox"/>	Level 4 - Achievement of Carbon Neutrality	
<input type="checkbox"/>	Not Sure	