

# Climate Action Revenue Incentive Program (CARIP) Public Report

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### Public Report for YEAR 2013

City of Coquitlam

Metro Vancouver



#### Report Submitted by

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#### General Information

<b>Name of Local Government</b>	City of Coquitlam
<b>Member of Regional District (RD)</b>	Metro Vancouver
<b>Regional Growth Strategy (RGS) in region</b>	Yes
<b>Population</b>	138,722

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## Community Wide Actions for 2013

### 1.1 Measure

#### Community Wide Measurement Actions

<b>Question</b>	Have you been using the Community Energy and Emissions Inventory (CEEI) to measure progress? What else have you been using instead of/in addition to CEEI?
<b>Answer</b>	Yes
<b>Additional Information</b>	The CEEI was used to support original Community GHG target setting in 2011 and is anticipated to be used to monitor progress moving forward. Other data for monitoring progress will include Census and spatial GIS analysis.

### 1.2 Plan

#### Community Wide Targets

<b>Question</b>	Does your OCP(s) have targets, policies and actions to reduce GHG emissions, as per the requirements under the <i>Local Governments Act (LGA)</i> ? If yes, please identify the targets set. If no or in progress, please comment.
<b>Answer</b>	Yes
<b>Additional Information</b>	Work in cooperation with senior levels of government to reduce the City's annual community-wide greenhouse gas emissions 15% below 2007 levels by 2031 and per capita greenhouse gas emissions 30% below 2007 levels by 2021.

### 1.3 Reduce

#### Supportive Community Wide Actions

<b>Action Type</b>	Broad Planning
<b>Actions Taken this Year</b>	<ul style="list-style-type: none"><li>* Prepared and adopted Coquitlam's Partington Creek Neighbourhood Plan.</li><li>* Continued progress and preparation of the Maillardville Neighbourhood Plan.</li><li>* Plans promoted high-density mixed-used developments and included guidelines for: transit-</li></ul>

	oriented development; preservation and enhancement of natural areas and water courses; and, energy efficient streetlighting.
<b>Proposed Actions for Next Year</b>	<ul style="list-style-type: none"> <li>* Complete the Maillardville Neighbourhood Plan Update.</li> <li>* Initiate the Lougheed-Burquitlam Neighbourhood Plan.</li> </ul>

Action Type	Building and Lighting
<b>Actions Taken this Year</b>	<ul style="list-style-type: none"> <li>* Prepared and adopted density sharing policies to help intensify multi-family developments.</li> <li>* Reduced parking standards for developments located near Evergreen Line station areas.</li> <li>* Supported Earth Hour through ad in local paper.</li> <li>* Posted information about corporate retrofits in public access buildings including energy conservation tips.</li> <li>* Promoted residential energy conservation information at various City events (Canada Day, Welcome to Coquitlam).</li> </ul>
<b>Proposed Actions for Next Year</b>	<ul style="list-style-type: none"> <li>* Prepare policies for garbage and recycling requirements for multi-family buildings.</li> <li>* Prepare policies for intensifying uses on industrial lands.</li> <li>* Attend outreach events to raise awareness and promote residential energy rebate programs to residents.</li> </ul>

Action Type	Energy Generation
<b>Actions Taken this Year</b>	<ul style="list-style-type: none"> <li>* Completed feasibility studies for District Energy systems in Maillardville, Partington Creek, Austin Heights, Burquitlam, and City Centre.</li> <li>* Based on studies, prepared a detailed feasibility study for Burquitlam.</li> </ul>
<b>Proposed Actions for Next Year</b>	<ul style="list-style-type: none"> <li>* Staff education and training to implement and educate the public about new energy efficient BC Building Code regulations.</li> <li>* Present results of detailed Burquitlam District Energy study to Council in Spring 2014.</li> </ul>

Action Type	Green Space
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<b>Actions Taken this Year</b>	* Initiated Forest Management Plan for Mundy Park, the City's largest park and dedicated urban forest.
<b>Proposed Actions for Next Year</b>	* Complete the Mundy Park Forest Management Plan.

Action Type	Transportation
<b>Actions Taken this Year</b>	* Launched Coquitlam TravelSmart partnership with TransLink to promote sustainable transportation. Outreach programs launched at 2 Elementary schools to encourage walking, cycling, and taking transit.
<b>Proposed Actions for Next Year</b>	* Complete TravelSmart launch outreach activities at 4 elementary schools. * Expand TravelSmart program to include Middle schools and assess infrastructure needs to encourage sustainable transportation.

Action Type	Waste
<b>Actions Taken this Year</b>	* Encouraged residents to participate in the Green Can program by educating through events (such as farmer's markets), newspaper advertising, and brochures. * 97 custom presentations were delivered by City staff to public schools in SD 44.
<b>Proposed Actions for Next Year</b>	* Roll-out of new collections service, moving to bi-weekly garbage with weekly green waste pick-up, to promote waste diversion and also reducing the number of truck routes. New collection trucks will run on compressed natural gas (CNG). * Promote Green Can use and backyard composting through a free compost giveaway and educational event during International Composting Week. * Provide funding for Dream Riders waste reduction presentations to schools.

Action Type	Water/Sewer
<b>Actions Taken this Year</b>	* The Water Conservation Outreach Team attended a number of community events promoting sprinkling regulations and other water conservation measures. The team also sold waterwise kits at reduced prices during events, to promote water conservation behaviour at home.
<b>Proposed Actions for Next Year</b>	* Review of Water Conservation Program to evaluate efficiency and determine if changes are

required for 2015.

### Direct Community Wide Actions

Action Type	Buildings
<b>Actions Taken this Year</b>	* Continued implementation of transit supportive mixed-use and apartment residential development around future Evergreen Line station areas, including City Centre, Lougheed and Burquitlam.
<b>Proposed Actions for Next Year</b>	* Continue implementation of transit-oriented development in Evergreen Line station areas. * Invite BC Hydro and FortisBC reps to building workshops to promote efficiency rebate programs.

Action Type	Energy Generation
<b>Actions Taken this Year</b>	* No action to report.
<b>Proposed Actions for Next Year</b>	* Awaiting Council direction for next steps derived from feasibility studies performed for Maillardville, Partington Creek, Austin Heights, Burquitlam, and City Centre.

Action Type	Transportation
<b>Actions Taken this Year</b>	* Through the Elementary School Walkability Program and Sidewalk Program, new sidewalks were built to encourage walking and improve safety. * Transit stops built for new '188' bus route serving Burke Mountain.
<b>Proposed Actions for Next Year</b>	* Complete sidewalk improvements identified in the School Walkability Program. * Build new sidewalks along Dewdney Trunk Rd & North Rd. * Chilko Multi-use Pathway at Lougheed to be installed.

Action Type	Waste
<b>Actions Taken this Year</b>	* Encouraged green waste recycling by providing Wildlife Resistant Green Cans and composters for residents to purchase at a wholesale rate.

<b>Proposed Actions for Next Year</b>	* Encourage residents to participate in the Green Can program by providing each single family residence with Wildlife Resistant Green Cans, offering 3 sizes for resident convenience, and a Kitchen Catcher to separate food scraps at source.
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<b>Action Type</b>	<b>Water/Sewer</b>
<b>Actions Taken this Year</b>	* Continued administering the toilet rebate program, enforcement of sprinkling regulations, and sales of waterwise kits, rain barrels and electronic water timers.
<b>Proposed Actions for Next Year</b>	* Continue administering the toilet rebate program, enforcement of sprinkling regulations, and sale of waterwise kits and rain barrels.

<b>Action Type</b>	<b>Green Space</b>
<b>Actions Taken this Year</b>	* Removed 9,300 square metres of invasive plant species * Planted 5,400 native shrubs and 1,300 trees.
<b>Proposed Actions for Next Year</b>	* A number of invasive plant removal projects and tree planting projects are planned for parkland.

<b>Question</b>	<b>Is there any activity that you have been engaged in over the past year(s) that you are particularly proud of and would like to share with other local governments? Please describe and add links to additional information where possible.</b>
<b>Answer</b>	<p>* <b>Growing Community Roots Program:</b> Solicit residents living in areas of Coquitlam with lower than average tree canopy cover to indicate if they are interested in having trees added to the boulevard adjacent to their property. If the site is appropriate, the City provides a tree(s) that the residents plant themselves and water for three years to help establish the tree. The cost of the trees was covered in 2013 from a grant from BC Hydro that was administered by Tree Canada. This program will continue in 2014.</p> <p>* <b>UBCM 2013 Community Excellence Award – Best Practices, Civic Engagement:</b> In 2013, the City of Coquitlam won a UBCM Community Excellence Award in the Best Practices, Civic Engagement category for the City’s series of Recycling and Waste Reduction Workshops. The series was developed for elementary school students of different age groups, and delivered to nearly 2,100 students. The themed workshops created a fun, educational and hands-on experience which captured students’ interest and emphasized the importance of incorporating the principles of waste diversion into everyday behaviours at school and at home. The program was also effective in promoting awareness of the City’s Green Can organics diversion program and other recycling initiatives supported by the City.</p>





## Corporate Actions for 2013

### 2.1 Measure

#### Corporate Measurement Actions

<b>Question</b>	What steps has your local government taken toward completing its corporate emissions inventory?
<b>Answer</b>	The City tracks all energy accounts on a monthly basis and accrues GHG emissions from operations on an annual basis.

<b>Question</b>	What tool are you using to measure, track and report on your corporate emissions?
<b>Answer</b>	The City has developed internal Excel spreadsheets and customized accounting software to measure, track and report on GHG emissions annually.

### 2.2 Reduce

#### Supportive Corporate Actions

<b>Action Type</b>	<b>Broad Planning</b>
<b>Actions Taken this Year</b>	* Continued to follow objectives outlined in the Corporate Climate Action Plan, developed in 2007.
<b>Proposed Actions for Next Year</b>	* Extend plan to maintain climate action targets while incorporating growth beyond 2015.

<b>Action Type</b>	<b>Building and Lighting</b>
<b>Actions Taken this Year</b>	* Continued to optimize building operations by providing training to building operators. * Promoted energy conservation through education and events led by the City's green team (Coquitlam Carbon Cutters), including Ugly Sweater Day, lunch and learns, and specialized campaigns.
<b>Proposed Actions for Next Year</b>	* Re-evaluate the corporate Strategic Energy Management Plan to extend kWh and GJ targets

beyond 2015.

**Action Type**      **Energy Generation**

**Actions  
Taken this  
Year**

\* A second feasibility study was performed by a contractor to install a City Centre Civic Campus Thermenex District Energy system that will connect heating and cooling in 4 buildings at City Centre. Project approved by Council late-2013.

**Proposed  
Actions for  
Next Year**

\* Proceed with construction/installation of Thermenex District Energy system.  
\* Investigate options for adding solar thermal heating to outdoor pools.

**Action Type**      **Transportation**

**Actions  
Taken this  
Year**

\* Continued to enforce anti-idling policy using GPS tracking and issuing reports to the user's department.  
\* Promoted Bike to Work Week through green team.

**Proposed  
Actions for  
Next Year**

\* Continue to promote anti-idling policy and track through GPS.  
\* Promote employee carpooling through internal website and green team events.  
\* Evaluate feasibility of expanding electric vehicle fleet and charging stations.

**Action Type**      **Waste**

**Actions  
Taken this  
Year**

\*Promoted the new civic recycling program through internal website messaging and information sessions.

**Proposed  
Actions for  
Next Year**

\* Conduct waste audits of major Civic Facilities to assess the improvements in waste diversion after the introduction of an improved recycling system.

**Action Type**      **Water/Sewer**

**Actions  
Taken this  
Year**

\* Promoted BC Drinking Water Week to staff.  
\* Hosted a Watershed Tour for Mayor, Council and staff.

**Proposed  
Actions for  
Next Year**

\* Participate in BC Drinking Water Week and promote the event to staff.

**Direct Corporate Actions**

**Action Type Building and Lighting**

**Actions  
Taken this  
Year**

\* Implemented a large building retrofit program in 14 of the City's largest facilities, including: heat recovery, lighting upgrades, and system optimization. Upgraded an additional 11 water heaters and small boilers.

**Proposed  
Actions for  
Next Year**

\* Implement a lighting retrofit at City Hall.  
\* Replace all T12 lamps in Corporate Facilities.  
\* Upgrade unit heaters.

**Action Type Energy Generation**

**Actions  
Taken this  
Year**

\* Added heat recovery capacity to Thermenex system at Poirier Sports and Leisure Centre.

**Proposed  
Actions for  
Next Year**

\* Complete construction of City Centre Civic Campus Thermenex District Energy system.

**Action Type Fleet**

**Actions  
Taken this  
Year**

\* Installation of LED emergency lighting on trucks reducing battery drain and eliminating need to run the engine.  
\* Installed small diesel heaters in work vans which run off the vehicles' main fuel tanks, eliminating the need to run large diesel engines to heat the interior when vehicles are parked but occupied.  
\* Purchased an electric fleet vehicle and charging station.  
\* Increased hybrid vehicle count to 6.

**Proposed  
Actions for  
Next Year**

\* Continue to right-size fleet and replace existing vehicles with hybrids when lease expires.

**Action Type Waste**

<b>Actions Taken this Year</b>	* Introduced an improved comprehensive civic recycling program that now includes most recyclables and Green Can. Provided education sessions, information resources on the Intranet, and created visual messaging near each bin.
<b>Proposed Actions for Next Year</b>	* Continue introducing improved recycling program to Civic Facilities in a phased approach.

<b>Action Type</b>	<b>Water/Sewer</b>
<b>Actions Taken this Year</b>	* Purchased leak detection equipment to monitor water losses in system (on-going). * Upgrading sanitary pump stations to energy efficient pumps from 2005-2016.
<b>Proposed Actions for Next Year</b>	* Continue to implement Energy Study recommendations when upgrading pump station. Foster pump station planned for 2014/15.

<b>Action Type</b>	<b>Green Space</b>
<b>Actions Taken this Year</b>	* Acquired or assembled 16.5 hectares of new parkland and lands for future City parks in the past three years, bringing the total to 950 hectares of parkland.
<b>Proposed Actions for Next Year</b>	* Focus on acquiring the most suitable parkland to accomplish the desired services and program goals within the guidance of the OCP and Neighbourhood Plans. Acquisition through land development activity, to increase the future park land inventory and allow for higher valued and developable park land to be acquired.

## 2.3 Corporate Innovation

<b>Question</b>	Is there any activity that you have been engaged in over the past year(s) that you are particularly proud of and would like to share with other local governments? Please describe and add links to additional information where possible.
<b>Answer</b>	* The Coquitlam Carbon Cutters have been developing a Workplace Sustainable Practices Policy to further embed a culture of conservation among staff at the City. The policy includes energy conserving actions, sustainable purchasing guidelines, and waste diversion and recycling guidelines. The policy will be presented to the City Manager and Executive Team in Spring 2014.

## Carbon Neutral Progress Reporting

### 3.1 Carbon Neutral Progress Reporting

Emissions/Offsets	Tonnes CO2e
<b>Annual corporate emissions using SMARTTool or equivalent inventory tool</b>	<b>4640</b>
<i>Emissions from services delivered directly by the local government</i>	4471
<i>Emissions from contracted services</i>	169
<b>Less:</b>	<b>829</b>
GHG reductions being claimed for this reporting year from Option 1 - GHG reduction project	
<i>Energy Efficient Building Retrofits and Fuel Switching</i>	-
<i>Solar Thermal</i>	-
<i>Household Organic Waste Composting</i>	829
<i>Low Emissions Vehicles</i>	
<b>Less:</b>	<b>3163</b>
GHG reductions being claimed for this reporting year from Option 2 - GHG reduction projects	
<i>Vancouver Landfill – Gas Capture Project</i>	3163
<i>Option 2 Project B</i>	-
<i>Sum of Other Option 2 Projects (if you have added projects below)</i>	<b>0</b>
<b>Less:</b>	<b>-</b>
<i>Offsets purchased for this reporting year (Option 3). Please identify your offset provider in the offset provider information section below.</i>	
<b>Balance of corporate emissions for this reporting year.</b> <i>(If the corporate emissions balance is zero, your local government is carbon neutral for this reporting year)</i>	<b>648</b>

### 3.2 Making Progress on Your Carbon Neutral Commitment

<b>Question</b>	If your community has not achieved carbon neutrality for this reporting year please describe the actions that you intend to take next year to move you toward your carbon neutral goal.
<b>Answer</b>	<ul style="list-style-type: none"><li>* Continue to execute the City's Corporate GHG Reduction Strategy, which includes implementing The City Centre Civic Campus Thermenex District Energy project and right-sizing heating plants throughout Corporate Facilities. The City Centre Thermenex District Energy system is anticipated to reduce carbon emissions by 500 tonnes, and will begin construction in Summer 2014.</li> <li>* Evaluate the feasibility of implementing Community Offset actions and projects.</li> <li>* Further integrate the Workplace Sustainable Practices Policy into operating procedures, in order to further embed a culture of conservation among staff and affect decisions that influence the City's GHG emission levels.</li></ul>

### 3.3 Offset Provider Information

<b>Question</b>	Please Identify the name(s) of your offset provider(s) (Please answer below):
<b>Answer</b>	The City does not currently purchase offsets from a third party provider.