

Climate Action Revenue Incentive Program (CARIP) Public Report

Climate Action Revenue Incentive (CARIP)

Public Report for YEAR 2013

The Corporation of the City of Grand Forks

Regional District Kootenay Boundary



Report Submitted by

Wayne Kopan

Manager Building Inspections & Bylaw Services

wkopan@grandforks.ca

March 3, 2014

General Information

Name of Local Government	The Corporation of the City of Grand Forks
Member of Regional District (RD)	Regional District Kootenay Boundary
Regional Growth Strategy (RGS) in region	In Progress
Population	4,036

Table of Contents

Community Wide Actions for 2013	2
1.1 Measure	2
Community Wide Measurement Actions	2
1.2 Plan	2
Community Wide Targets	2
1.3 Reduce	2
Supportive Community Wide Actions	2
Direct Community Wide Actions	4
Corporate Actions for 2013	7
2.1 Measure	7
Corporate Measurement Actions	7
2.2 Reduce	7
Supportive Corporate Actions	7
Direct Corporate Actions	9
2.3 Corporate Innovation	10
Carbon Neutral Progress Reporting	11
3.1 Carbon Neutral Progress Reporting	11
3.2 Making Progress on Your Carbon Neutral Commitment	11
3.3 Offset Provider Information	12

Community Wide Actions for 2013

1.1 Measure

Community Wide Measurement Actions

Question	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?
Answer	Yes
Additional Information	The City of Grand Forks has been collecting data through our Municipal and Fortis utility billing information. The fleet fuel and maintenance data has been collected through our fuel monitoring system and Carbon Neutral data spreadsheets.

1.2 Plan

Community Wide Targets

Question	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.
Answer	Yes
Additional Information	The City's (SCP) Sustainable Community Plan has set the GHG emissions reduction target of 33% below the 2007 levels to be achieved by 2030.

1.3 Reduce

Supportive Community Wide Actions

Action Type	Broad Planning
Actions Taken this Year	The City Council has adopted the (SCP) Sustainable Community Plan. The (BAQC) Boundary Air Quality Committee and the City of Grand Forks have undertaken an Air Quality study with a Nephelometer on loan to the City by the University of Victoria. This study has been completed for 2013 with the committee finding several hot spots in our region with a

	majority of them attributed to inefficient wood heating appliances.
Proposed Actions for Next Year	With the Air Quality Study completed in 2013, the (BAQC) is now researching the possibility of purchasing a Nephelometer to continue with the Air Quality monitoring in our region.

Action Type	Building and Lighting
Actions Taken this Year	The City has partnered with the Carbon Neutral Kootenays to undertake an energy and lighting audit on six of our major facilities. The report has indicated areas in our facilities in which the reduction of emissions can be made. These areas will be addressed in our future budget planning
Proposed Actions for Next Year	These areas will be addressed in our future budget planning.

Action Type	Energy Generation
Actions Taken this Year	Solar initiatives are ongoing and being explored by the BAQC committee.
Proposed Actions for Next Year	The Solar Hot Water Plan for new construction is still in the ingestion and review stages at this time as this will also require a bylaw to be adopted by City Council which will indicate the location and size of trees which can be planted on private property.

Action Type	Green Space
Actions Taken this Year	The City is also committed to the replacement and replanting of trees within our community.
Proposed Actions for Next Year	This practice will continue in the years to come.

Action Type	Transportation
Actions Taken this Year	The Trans Canada Trail was paved from the 68th Avenue bridge to the old Railroad Bridge to East in 2013. This project has created better access for both cyclist and persons with disabilities, while reducing both maintenance and equipment cost. The City will continue to develop more pedestrian and cycling pathways as per the City's bicycle network plan as we

	move forward.
Proposed Actions for Next Year	Improvements and new areas will be developed as the operational budgets allow in 2014.

Action Type	Waste
Actions Taken this Year	The City and Regional District have been working together to develop and implement a Kitchen Waste recycling program in 2012 for our residential customers. (Green Bin Collection and Composting)This program has seen a significant reduction of the waste materials being deposited in our landfill.
Proposed Actions for Next Year	The City will be working with the Regional District to investigate the possibility of this program to be adapted to the commercial business within our community.

Action Type	Water/Sewer
Actions Taken this Year	City Council has approved the installation of water meters on residential properties to help reduce water consumption and pumping costs.
Proposed Actions for Next Year	The installation of water meters will commence early in the spring of 2014.

Action Type	Other Actions
Actions Taken this Year	
Proposed Actions for Next Year	

Direct Community Wide Actions

Action Type	Buildings
Actions Taken this Year	The City is now responsible for building inspections and all changes of occupancy and improvements to a facility now have to be brought up to current building code standards. During processing of a business licence application the City now has the ability to check for building code compliance.

**Proposed
Actions for
Next Year**

Through the Sustainable Community Plan, the City plans to encourage the use of new green technologies in new building construction.

Action Type Energy Generation

**Actions
Taken this
Year**

One event is the Solar cars races. The students design and build solar cars and then gather to race the cars. Through this program they learn about the potential of the sun's energy.

**Proposed
Actions for
Next Year**

The City is continuing to endorse solar events and promotional materials through the Economic Development Committee. The City has also installed new entrance signs both East and West of our community, these signs are illuminated at night by solar panels.

Action Type Transportation

**Actions
Taken this
Year**

The City has adopted a new vehicle purchasing policy in 2012.

**Proposed
Actions for
Next Year**

The proposed purchases for this year will be the most fuel efficient and correct size vehicle for the tasks that vehicles will be used for. The City will also be working with the Sustainable Community Plan for further development of pedestrian and cycling pathways within the City.

Action Type Waste

**Actions
Taken this
Year**

In 2013 the Yard & Garden waste collection has diverted approximately 74 tons of material, the Kitchen Waste Organics program has diverted approximately 218 tons and the Blue Bag recycling has diverted approximately 219 tons of material that used to go directly into the landfill.

**Proposed
Actions for
Next Year**

The Region District is in the process of developing a plan for compostable waste pickup for commercial businesses (restaurants, large grocery stores).

Action Type Water/Sewer

**Actions
Taken this
Year**

The completion of the Sludge Management Plan, Waste Water Treatment Plant Assessment and the Multi Utility Risk Assessment.

Proposed Actions for Next Year	The Waste Water Treatment Plant Assessment will result in the replacement of the head works at the WWTP to reduce energy costs in the treatment and pumping of the waste materials, and the Multi Utility Risk Assessment will provide the vital information on infrastructure replace to reduce losses due to aging and leaking pipes.
---------------------------------------	---

Action Type	Green Space
--------------------	--------------------

Actions Taken this Year	The City is also committed to the replacement and replanting of trees within our community.
--------------------------------	---

Proposed Actions for Next Year	This practice will continue in the years to come.
---------------------------------------	---

Action Type	Other Actions
--------------------	----------------------

Actions Taken this Year	
--------------------------------	--

Proposed Actions for Next Year	
---------------------------------------	--

Question	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.
-----------------	--

Answer	
---------------	--

Corporate Actions for 2013

2.1 Measure

Corporate Measurement Actions

Question	What steps has your local government taken toward completing its corporate emissions inventory?
Answer	The City of Grand Forks has been collecting data through our Municipal and Fortis utility billing information. The Fleet Fuel and maintenance data has been collected through our fuel monitoring system and Carbon Neutral Data spreadsheets.

Question	What tool are you using to measure, track and report on your corporate emissions?
Answer	In 2012 the City incorporated the use of the SMARTtool program to enter and submit the data that we collect. The SMARTtool has proven to be an exceptional tool to collect and compile data throughout the year.

2.2 Reduce

Supportive Corporate Actions

Action Type	Broad Planning
Actions Taken this Year	The City of Grand Forks and Carbon Neutral Kootenays developed the Carbon Neutral Action Plan in 2012.
Proposed Actions for Next Year	To continue with the implementation of actions listed in the Carbon Neutral Action Plan.

Action Type	Building and Lighting
Actions Taken this Year	The Energy Audits have been completed on the City Hall, Fire Hall, Public Works, Gallery 2, Library and Airport Terminal facilities in Grand Forks.
Proposed Actions for Next Year	In 2013 the City installed new high efficiency furnaces in both the Fire Hall and Public Works facility. The City has also been replacing the large garage style bay doors at the

Public Works facility, with doors that have a greater insulating value and improved weather stripping. Although the City suffered a significant fire at our City Hall in September of 2013, this will provide the City with an opportunity to upgrade the heating and cooling systems (HVAC) as well as move towards the installation of LED lighting within this structure to decrease the overall energy consumption of this facility.

Action Type **Energy Generation**

Actions Taken this Year

Due to budget restraint in 2013, some of the proposed plans had to be deferred to the next fiscal year.

Proposed Actions for Next Year

In 2014 the City is planning to continue with investigations into energy savings through solar initiatives.

Action Type **Transportation**

Actions Taken this Year

The City has adopted a new vehicle purchasing policy.

Proposed Actions for Next Year

Proposed purchases for this year will be the most fuel efficient and correct size of vehicle for their intended use.

Action Type **Water/Sewer**

Actions Taken this Year

In 2013 the City has completed several studies and plans in an effort to reduce water consumption and pumping costs. Examples of the reports completed in 2013 are Well and Aquifer Protection Plan, Water Supply Strategy Plan, Sludge Management Plan, Waste Water Treatment Plant Assessment, Multi Utility Risk Assessment.

Proposed Actions for Next Year

Commencement of the installation of water meters on the residential properties within Grand Forks.

Action Type **Other Actions**

Actions Taken this Year

Proposed Actions for Next Year

Direct Corporate Actions

Action Type	Building and Lighting
Actions Taken this Year	Several of the large equipment bay doors have been replaced with new doors with a higher R value and improved weather stripping to prevent heat loss from the building.
Proposed Actions for Next Year	The replacement of the 30 year old HVAC, roof top units at the Public Library and the reconstruction of City Hall.
Action Type	Energy Generation
Actions Taken this Year	Solar lighting of the entrance signs to the City.
Proposed Actions for Next Year	The 2013-14 budget will reflect the City's commitment to improving our GHG emissions on other Municipal facilities (Library and City Hall rebuild)
Action Type	Fleet
Actions Taken this Year	The City has adopted a new vehicle purchasing policy.
Proposed Actions for Next Year	Proposed purchases for this year will be the most fuel efficient and correct size of vehicle for their intended use.
Action Type	Waste
Actions Taken this Year	This is a Regional District function.
Proposed Actions for Next Year	The City will continue to work with the Regional District to improve collection of waste products.
Action Type	Water/Sewer

Actions Taken this Year	Planning and studies to prepare for the water meter installation in 2014.
Proposed Actions for Next Year	Installation of water meters for the residential properties in Grand Forks.

Action Type	Green Space
Actions Taken this Year	The City is also committed to the replacement and replanting of trees within our community.
Proposed Actions for Next Year	This practice will continue in the years to come.

Action Type	Other Actions
Actions Taken this Year	
Proposed Actions for Next Year	

2.3 Corporate Innovation

Question	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.
Answer	

Carbon Neutral Progress Reporting

3.1 Carbon Neutral Progress Reporting

Emissions/Offsets	Tonnes CO2e
Annual corporate emissions using SMARTTool or equivalent inventory tool	289
<i>Emissions from services delivered directly by the local government</i>	289
<i>Emissions from contracted services</i>	
Less: GHG reductions being claimed for this reporting year from Option 1 - GHG reduction project	0
<i>Energy Efficient Building Retrofits and Fuel Switching</i>	
<i>Solar Thermal</i>	
<i>Household Organic Waste Composting</i>	
<i>Low Emissions Vehicles</i>	
Less: GHG reductions being claimed for this reporting year from Option 2 - GHG reduction projects	0
<i>Option 2 Project A</i>	
<i>Option 2 Project B</i>	
<i>Sum of Other Option 2 Projects (if you have added projects below)</i>	0
Less: Offsets purchased for this reporting year (Option 3). Please identify your offset provider in the offset provider information section below.	289
Balance of corporate emissions for this reporting year. <i>(If the corporate emissions balance is zero, your local government is carbon neutral for this reporting year)</i>	0
Additional "Option 2" Projects	
<i>Option 2 Project C</i>	
<i>Option 2 Project D</i>	
<i>Option 2 Project E</i>	
<i>Option 2 Project F</i>	
<i>Option 2 Project G</i>	
<i>Option 2 Project H</i>	

3.2 Making Progress on Your Carbon Neutral Commitment

Question	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.
Answer	Through a resolution of Council we set up a Climate Action Reserve into which the City has contributed equivalent offset funding of \$8,019 for 2012 and \$7,245 for 2013. These amounts

represent the offsets claimed in the CARIP Report for the City.

3.3 Offset Provider Information

Question Please Identify the name(s) of your offset provider(s) (Please answer below):

Answer

Question The offsets being claimed in this CARIP Report were purchased from the offset provider(s) indicated above prior to making this CARIP report public (please indicate yes or no):

Answer No

Question 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.

Answer