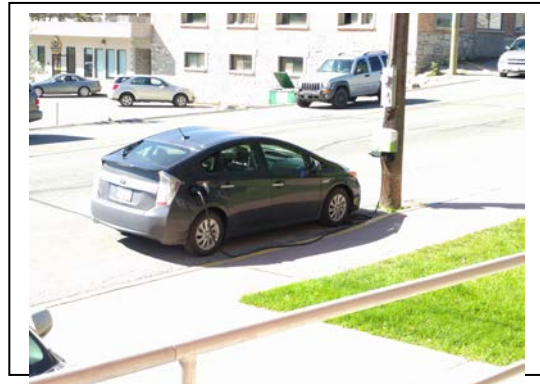


Climate Action Revenue Incentive (CARIP) Public Report for 2015

Local Government:
CORPORATION OF THE CITY OF GRAND FORKS

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Date: May 31, 2016

The Corporation of the City of Grand Forks has completed the 2015 Climate Action Revenue Incentive Program (CARIP) Public Report as required by the Province of BC. The CARIP report summarizes actions taken in 2015 and proposed for 2016 to reduce corporate and community-wide energy consumption and greenhouse gas emissions (GHG) and reports on progress towards achieving carbon neutrality. There is also an opportunity to report on climate adaptation actions.

2015 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 2015	
	Continued implementing broad sustainability policies in the Sustainable Community Plan, including SCP target of reducing GHG emissions at 33% below 2007 levels by 2030.
Community-Wide Actions Proposed for 2016	
	Strategic Community Energy and Emissions Plan with Community Energy Association
	Engagement with community on smart growth, natural area protection, energy efficiency, and other sustainability issues being addressed in the Sustainable Community Plan and Zoning Bylaw update
	Begin developing sustainability checklists for developments in community

Corporate Actions Taken in 2015	
	Began researching options for supporting eco-homes and tiny homes for incorporation in the renewal of the Sustainable Community Plan and Zoning Bylaw
	Began identifying issues for renewal of Sustainable Community Plan, including Protected Natural Areas, Aquifer Protection, Natural Capital, small homes, urban agriculture / food security, and other issues
	2015-2019 Strategic Plan incorporating multiple sustainability components
Corporate Actions Proposed for 2016	
	Opening up the SCP and expanding the environment and sustainability policies and zoning bylaw (smart growth)
	Incorporate energy efficiency and sustainability criteria in all infrastructure and capital projects
	Continued implementation of Strategic Plan sustainability actions

Snapshot Questions	
Are GHG reduction targets are included in your local government's Official Community Plan or Regional Growth Strategy?	Yes
Are you familiar with the Community Energy and Emission Inventory (CEEI)?	Yes
Does your local government use the Community Energy and Emissions Inventory (CEEI) to measure progress?	Yes
Which of the following does your local government use to guide climate action implementation?	
• Community Energy and Emissions (CEE) Plan	Yes
• Climate Action Plan	No
• Integrated Community Sustainability Plan	No
• Official Community Plan (OCP)	Yes
• Regional Growth Strategy (RGS)	No
• Other:	No
Does your local government have a climate action reserve fund?	Yes
Does your local government have a Corporate Climate Action Plan?	No

2015 BUILDINGS 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 2015	
	Ongoing: promoting electricity, natural gas and other energy efficiency programs
	Ongoing: educating and supporting compliance on building code energy efficiency
Community-Wide Actions Proposed for 2016	
	Planning to consider options for supporting tiny home, small house and eco-home developments in Sustainable Community Plan
	Ongoing: promoting electricity, natural gas and other energy efficiency programs and Business Energy Advisor assessments
	Ongoing: educating and supporting compliance on building code energy efficiency
	Planning to research Development Permit Areas for enhancing energy performance
	Planning to incorporate further measures for supporting density and infill development in SCP update

Corporate Actions Taken in 2015	
	Implement LED street lighting pilot project
	LED lighting for Grand Forks Library
	Initiate Airport Beacon Solar project
Corporate Actions Proposed for 2016	
	Developed plan for LED street lighting pilot project
	Implement Airport Beacon Solar project
	LED lighting for Airport Beacons

2015 ENERGY GENERATION ACTIONS

Energy Generation

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 2015	
Community-Wide Actions Proposed for 2016	

Corporate Actions Taken in 2015	

Corporate Actions Proposed for 2016	

Snapshot Questions	
Is your local government developing, or constructing a district energy project?	No
Is your local government operating a district energy system?	No
Is your local government developing or constructing a renewable energy project?	No
Is your local government operating a renewable energy project?	No
Are you aware of the Integrated Resource Recovery guidance page on the BC Climate Action Toolkit (http://www.toolkit.bc.ca/tool/integrated-resource-recovery-irr?)?	Yes

2015 GREENSPACE/ NATURAL RESOURCE PROTECTION ACTIONS

Greenspace

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 2015	
Community-Wide Actions Proposed for 2016	
	Planned for sensitive ecosystem inventory / wetland inventory to initiate as part of identifying and inventory of natural / ecological assets
	Planned for moving forward with Environment Canada Ecological Gifts Program eligibility

Corporate Actions Taken in 2015	
	Began process of identifying City-owned properties potentially suitable for protection
	Adopted contaminated sites standard that recognizes the City's liability associated with contaminated sites that contain substances in concentrations that exceed environmental standards. City has inventoried active and inactive sites which may be subject to environmental contamination.
Corporate Actions Proposed for 2016	
	Planned for rezoning and protecting significant ecosystems as Protected Natural Areas, including the 22 acre Johnson Flats Wetland
	Planned for phase 1 of urban forest inventory using Lidar data and iTree software
	Planned for modeling of storm water and aquifer protection benefits of natural capital
	Planned for tree inventory and began researching tree policy
	Planned contaminated site evaluation review and classification according to their potential for environmental concern.

Snapshot Question	
Does your local government have urban forest policies, plans or programs?	No

2015 SOLID WASTE ACTIONS

Solid Waste

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 2015	
	Note: Solid waste is handled through the Regional District of Kootenay Boundary / Environmental Services. They have implemented City-wide (and now regional) household organics diversion and composting
	Support Agriculture Society's Learning Garden Project and Kettle River Community Garden in promoting composting and soil-building with food and yard waste

Community-Wide Actions Proposed for 2016	
	Continue supporting Learning Garden and Community Garden projects promoting composting and soil-building with food and yard waste

Corporate Actions Taken in 2015	
Corporate Actions Proposed for 2016	
	Consider compost collection system for community garden initiatives

Snapshot Questions	
Does your local government have construction and demolition waste reduction policies, plans or programs?	Through RDKB
Does your local government have organics reduction/diversion policies, plans or programs?	Through RDKB

2015 TRANSPORTATION ACTIONS

Transportation

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 2015	
	Installed an electric vehicle charging station adjacent City Hall in downtown Grand Forks
	Continued compliance and enforcement of anti-idling bylaw
	Continued implementation of asset management plan to assess efficiencies of vehicles and equipment

Community-Wide Actions Proposed for 2016	
	Participate in “Fueling the Kootenays” Electric Vehicle (EV) Charging Station Infrastructure Strategy
	Planning to consider active transportation and bicycle network in Sustainable Community Plan
	Researching and implementing measures to improve active transportation infrastructure, including bicycle network upgrades and sidewalk and pathway systems associated with new development
	Continued implementation of asset management plan to assess efficiencies of vehicles and equipment

Corporate Actions Taken in 2015	
	Continued implementation of asset management plan to assess efficiencies of vehicles and equipment
Corporate Actions Proposed for 2016	
	Planning for purchase of electric Can-EV ‘Might-e’ work truck for public works to replace an aging gas-fueled ½ ton truck. (http://www.canev.com/might_e_truck.php)
	Additional public information kiosks to be installed in key pedestrian / green space / bicycle network sites

Snapshot Questions	
Does your local government have policies, plans or programs to support:	
• Walking	Yes
• Cycling	Yes
• Transit Use	Yes
• Electric Vehicle Use	Yes
• Other	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)?	No
Does your local government have policies, plans or programs to support local food production (thus reducing transportation emissions)?	Yes

2015 WATER AND WASTEWATER ACTIONS

Water and Wastewater

Climate Change Adaptation

For local governments, adaptation to a changing climate can take the form of changes in policy, management, technology and behaviour that minimize negative impacts or exploit opportunities. It can involve both “hard” and “soft” solutions, including: changes in infrastructure engineering, planning, zoning, bylaws, and public education.

Community-Wide Actions Taken in 2015	
Community-Wide Actions Proposed for 2016	
	Sustainable landscaping and permaculture demonstration at the Learning Garden in conjunction with Agricultural Society
	Continued support of Kettle River Watershed Management Plan including Drought Management Plan

Corporate Actions Taken in 2015	
Corporate Actions Proposed for 2016	
	Planning for updating floodplain mapping and dike monitoring and maintenance

Snapshot Questions	
Are you aware of the Plan2Adapt guidance page on the BC Climate Action Toolkit?	Yes

Are you aware of the <i>Preparing for Climate Change, An Implementation Guide for Local Governments in BC</i> on the BC Climate Action Toolkit ?	Yes
Have you visited the climate change adaptation guidance page on the BC Climate Action Toolkit ?	Yes

2015 OTHER CLIMATE ACTIONS

Other Climate Actions

This section provides local governments the opportunity to report other climate actions that are not captured in the categories above.

Community-Wide Actions Taken in 2015	
Community-Wide Actions Proposed for 2016	

Corporate Actions Taken in 2015	
	Electrical Voltage Conversion – increase in efficiency
Corporate Actions Proposed for 2016	
	Continued implementation of electric voltage conversion and system upgrades

INNOVATION AND PEER-TO-PEER LEARNING

Innovation

This section provides the opportunity to showcase an innovative Corporate and/or Community-Wide reduction or adaptation activity that your local government has undertaken and that has had a significant impact or has the potential to have a significant impact. 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.

Community-Wide Innovative Action

Corporate Innovative Action

Planning to participate in Municipal Natural Capital Initiative as pilot community to inventory natural assets and model storm water benefits and associated ecosystem services (carbon, biodiversity, water storage) of wetlands, riparian areas, floodplains and landscape features

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 appropriate box below.

Programs and Funding

2015 CARBON NEUTRAL REPORTING

Reporting Emissions

Did you measure your local government's corporate GHG emissions in 2015? (Yes/No)	Yes
If your local government measured 2015 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:	249
If your local government measured 2015 corporate GHG emissions, please report the number of corporate GHG emissions (in tonnes of carbon dioxide equivalent) from <u>contracted</u> services:	
TOTAL A: CORPORATE GHG EMISSIONS FOR 2015	249 tCO₂e

Reporting Reductions and Offsets

To be carbon neutral, a local government must balance their TOTAL corporate GHG emissions by one or a combination of the following actions:

- undertake Option 1 Projects (GCC-supported)
- undertake Option 2 Projects (alternative) community GHG emissions reduction projects that meet project eligibility requirements
- purchase carbon offsets from a credible offset provider

If applicable, please report the 2015 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	
Solar Thermal	
Household Organic Waste Composting	
Low Emission Vehicles	
Avoided Forest Conversion	
TOTAL B: REDUCTIONS FROM OPTION 1 PROJECTS FOR 2015	tCO₂e

If applicable, please report the names and 2015 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 2015	tCO2e

If applicable, please report the number of offsets purchased (in tonnes of carbon dioxide equivalent (tCO2e)) from an offset provider for the 2015 reporting year:
 (NOTE: DO NOT INCLUDE ANY FUNDS THAT MAY BE SET ASIDE IN A CLIMATE ACTION RESERVE FUND)

OFFSET PROVIDER	REDUCTIONS
TOTAL D: OFFSETS PURCHASED FOR 2015	tCO2e

TOTAL REDUCTION AND OFFSETS FOR 2015 (Total B+C+D) = tCO2e

Corporate GHG Emissions Balance for 2015

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 2015 = (A – (B+C+D)) = 249 tCO2e

**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 (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 - Progress on Charter Commitments: for local governments who demonstrate progress on fulfilling one or more of their Charter commitments

Level 2 - Measurement: for local governments who have measured their Corporate GHG Emissions for the reporting year and demonstrate that they are familiar with the Community Energy and Emissions Inventory (CEEI)

Level 3 - Achievement of Carbon Neutrality: for local governments who achieve carbon neutrality in the reporting year.

Based on your local government's 2014 CARIP Public Report, please check the GCC Climate Action Recognition Program level that best applies:

<input type="checkbox"/>	Level 1 - Progress on Charter Commitments	
<input checked="" type="checkbox"/>	Level 2 - Measurement	√
<input type="checkbox"/>	Level 3 - Achievement of Carbon Neutrality	
<input type="checkbox"/>	Not Sure	