

Climate Action Revenue Incentive (CARIP) Public Report for 2017



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The Town of Smithers 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	
	Refer to the Community Energy and Emissions Plan to guide reduction initiatives. Refer to the Official Community Plan to guide future growth and land use
	Continue to implement Council's strategic priorities, which include investing in renewable energy systems, increasing energy efficiency of current assets and implementing community energy initiatives
	Continue to explore the recommendations of the Small Business task force, which was established in 2016 as one of Council's strategic priorities. One recommendation was the creation of a Revitalization Tax Exemption Bylaw to increase mixed use development and density in the downtown core, thus reducing GHG emissions by reducing vehicle dependency.
Community-Wide Actions Proposed for 2018	
	Refer to the Community Energy and Emissions Plan to guide reduction initiatives. Refer to the Official Community Plan to guide future growth and land use
	Continue to implement Council's strategic priorities, which include investing in renewable energy systems, increasing energy efficiency of current assets and implementing community energy initiatives
	Continue to explore the recommendations of the Small Business task force, which was established in 2016 as one of Council's strategic priorities. One recommendation was the creation of a Revitalization Tax Exemption Bylaw to increase mixed-use development and density in the downtown core, thus reducing GHG emissions by reducing vehicle dependency.
	Continue to engage and consult with the community on planning-related projects such as an Active Transportation Plan.

Corporate Actions Taken in 2017	
	Continue to implement recommendations from the 2012 Corporate Energy Emissions Reduction Plan
	Use SMARTtool to measure, track and report on corporate emissions
	Refer to the Age-Friendly Assessment and Action Plan as the basis for accessibility improvements.

Corporate Actions Proposed for 2018	
	Continue to implement recommendations from the 2012 Corporate Energy Emissions Reduction Plan
	Refer to the Age-Friendly Assessment and Action Plan as the basis for accessibility improvements.

Broad Planning	
What is (are) your current GHG reduction target(s)?	The official Community Plan has a visionary GHG reduction target for the purpose of complying with the Local Government Act and Climate Change Action Charter commitments. Policy states: Establishing a baseline at 2007 emission levels, the Town of Smithers strives to achieve a Community Greenhouse Gas Reduction Target of 13% by 2017.
Are you familiar with your community's community energy and emissions inventory (e.g. CEEI or another inventory)?	Yes
What plans, policies or guidelines govern the implementation of climate mitigation in your community?	Yes No Yes Yes No
<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: 	Yes No Yes Yes No
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	
	Continue to use the Facilities Maintenance Plan to guide Town building improvements
	LED Street light replacement program for Town of Smithers owned light poles
	Use the 2016 Age-Friendly Assessment and Action Plan to guide all Town Building accessibility

	improvements/modifications
	Planning for a Passive House information session in early 2018
Community-Wide Actions Proposed for 2018	
	Continue to use the Facilities Maintenance Plan to guide Town building improvements
	Smithers Storefront Spruce Up Program Grant includes a new component for accessibility improvements, to help make Smithers a more walkable community
	Passive House presentation for local contractors/builders and town staff to attend, including a tour of the BC Housing Passive project under construction.
	Continue to use the 2016 Age-Friendly Assessment and Action Plan to guide all Town Building accessibility improvements/modifications

Corporate Actions Taken in 2017	
	Airport Terminal Modernization project construction, as per final design which includes a geo-exchange HVAC system, high performance building envelope, and LED lighting
	Completed feasibility study and energy modelling and recommendations on the replacement of gas-fired furnaces heating the LB Warner Centre's Community Gymnastics Building
Corporate Actions Proposed for 2018	
	Airport Terminal Modernization project construction continued, as per final design which includes a geo-exchange system, high performance building envelope, and LED lighting
	Continue to use the Facilities Maintenance Plan to guide Town building improvements, and incorporate energy considerations into the evaluation of all building improvement projects
	Recommend and select furnace for the LB Warner Centre's Community Gymnastics Building based on results of the 2017 feasibility study
	Conduct Energy Modeling for new Town facilities for the Fire Storage Building
	At direction of Council, report on alternative heating systems when scheduling furnace replacements at the Town Hall

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	
	Development and marketing for 2018 rebates for wood appliance recycling and upgrade program
Community-Wide Actions Proposed for 2018	
	In conjunction with the BV Airshed Management Society, the Town of Smithers is offering a Cash rebate for wood appliance recycling and upgrades

Corporate Actions Taken in 2017	
	Commence construction of Smithers Airport Modernization Project that includes a geo-exchange system as part of the final design
Corporate Actions Proposed for 2018	
	Continue construction of Smithers Airport Modernization Project that includes a geo-exchange system as part of the final design

Energy Generation	
Is your local government developing, or constructing:	
<ul style="list-style-type: none"> • A district energy system • A renewable energy system 	Yes No

Is your local government operating:	
<ul style="list-style-type: none"> • A district energy system • A renewable energy system 	No 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	
	Completed purchase and installation of the "Portland Loo" in downtown Smithers to enhance the downtown Smithers experience
	Pre-feasibility study completed for the Smithers Arts + Culture Plan, including design of Central Park
	Hired consultant for the Downtown Landscape Redesign project plan, to prepare for succession of the existing Main Street trees and landscape infrastructure and foster a pedestrian oriented streetscape of higher density mixed use development
Community-Wide Actions Proposed for 2018	
	Complete concept plan and business case for new Library and Art Gallery combined facility that would incorporate passive house or energy code step 5 design standards
	Completion of the Downtown Landscape Redesign project plan, to prepare for succession of the existing Main Street trees and landscape infrastructure and foster a pedestrian oriented streetscape of higher density mixed use development
	Perimeter trail upgrades pending receipt of the Rural Dividend Fund grant

Corporate Actions Taken in 2017	
	Continue to jointly hold the Community Forest Tenure with the Village of Telkwa

Corporate Actions Proposed for 2018	
	Continue to improve the accessibility of our greenspaces by following the Age-Friendly Action Plan Priorities
	Continue to jointly hold the Community Forest Tenure with the Village of Telkwa
	Chandler Park Field Phase 3 completion
	Continue to be open to community partnerships that improve our parks and public spaces

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? - Community Gardens, back yard hen keeping	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	
	Continued to provide recycling information and educational material to the community
	In June 2017, 3 communities challenged each other to reduce contamination levels in their Community's curbside recycling programs. Recycle BC used their audit data to determine the results – and the Town of Smithers won
Community-Wide Actions Proposed for 2018	
	Continued to provide recycling information and educational material to the community

Corporate Actions Taken in 2017	
	Continued development and promotion of a community composting facility at the public works yard
Corporate Actions Proposed for 2018	
	Continued development and promotion of a community composting facility at the public works yard

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

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	
	Participated in 2017 bike to work week
	Funding partner in Smithers and District Transit System. Expanded service offered on the Telkwa – Smithers route in 2017, as well as expanded routing for the Moricetown – Smithers route
	Addition of 3 transit bus stops
	Curb cuts and sidewalk repairs and improvements, based on recommendations of Age Friendly Assessment and Action Plan, and collaboration with MOTI
Community-Wide Actions Proposed for 2018	
	Continue to be a Funding partner in the Smithers and District Transit System
	Consider participation in 2018 Bike to Work Week, and support public education with presentations such as “Bicycle Transportation Solutions for Healthy Northern Communities
	Funded through a BC Rural Dividend Fund, will develop an Active Transportation Plan by hiring a consultant. The plan will become part of the OCP, and will become a strategic priority to encourage and facilitate active transportation, including walking and bicycling.
	Continue sidewalk repairs and connectivity
	To apply for funds from Northern Development Initiative Trust to market the Smithers and District Transit Service

Corporate Actions Taken in 2017	
	Finalize Zoning Bylaw amendments to reduce/eliminate parking requirements for downtown properties, as strategy to encourage parking efficiency, increase density and use of alternative transportation (walking and cycling)
	Completion of 2 nd Ave Parking lot, which includes accessible spaces and pedestrian focused design.
	Level 2 EV charging station incorporated into 2 nd Ave parking lot
Corporate Actions Proposed for 2018	
	Continue to replace corporate fleet in accordance with Vehicle Purchasing Policy ADM-020, which considers emissions, life cycle costs, efficiencies and environmental impact

	Development of an Active Transportation Plan, including a bicycle network plan, pedestrian plan and improvement of HWY 16 intersections

Transportation	
Does your local government have policies, plans or programs to support:	
• Walking	Yes
• Cycling	Yes
• Transit Use	Yes
• Electric Vehicle Use	Yes
• Other (please specify)	
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 integrate its transportation and land use planning?	Yes

2017 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	
	Water Restriction bylaw 1811 passed to regulate water use
Community-Wide Actions Proposed for 2018	
	Continue to educate property owners and residents about water conservation

Corporate Actions Taken in 2017	
	Encourage commercial businesses to install water meters, now required for a building permit
Corporate Actions Proposed for 2018	
	Encourage commercial businesses to install water meters, now required for a building permit
Water Conservation	
Does your local government have water conservation policies, plans or programs?	Yes

2017 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 2017	
Community-Wide Actions Proposed for 2017	
Corporate Actions Taken in 2017	
Corporate Actions Proposed for 2018	
	Explore options for replacing the chiller at our old arena, to incorporate efficiencies by potentially combining the refrigeration plant for both arenas, and options to also provide heat to the pool (non town asset)

Other	
Are you familiar with the Community Lifecycle Infrastructure Costing Tool (CLIC) ?	Yes
Have you used CLIC?	No

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
Corporate Action
<ul style="list-style-type: none"> • The Smithers Airport Modernization Project creates and elevated standard of sustainable development • Promotion of Passive House and Energy Step code 5 standards

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"> • Smithers Downtown Façade Improvement program with funding from Northern Initiative Trust • Rural Dividend Fund for proposed Active Transportation Plan, and perimeter trial upgrades • FCM grant for Municipal Asset Management Plan

Adaptation

Programs and Funding

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:	476
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:	
TOTAL A: CORPORATE GHG EMISSIONS FOR 2017	476 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	
Solar Thermal	
Household Organic Waste Composting	
Low Emission Vehicles	
Avoided Forest Conversion	
TOTAL B: REDUCTIONS FROM OPTION 1 PROJECTS FOR 2017	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	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	tCO2e

TOTAL REDUCTIONS AND OFFSETS FOR 2017 (Total B+C+D) = 476 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)) = 476 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	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 NAMES:
<ul style="list-style-type: none"> • Installation of a geo-field at the Airport for ground source heating: This is part of the current \$9M Airport Terminal modernization project. That, plus improved building efficiency and upgrades to the heating and ventilations systems within the Airport terminal, is estimated to reduce future Co² Emissions at the Airport Terminal by approximately 48%. • Design concept for the new Library/Art Gallery: This will be based on BC Energy Step Code 5 or Passive House standards. • Renewable energy options for the Town Hall building: Council has asked staff to provide a report for the 2019 budget on these options.

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:

	Level 1 – Demonstrating Progress on Charter Commitments	
	Level 2 – Measuring GHG Emissions	
	Level 3 – Accelerating Progress on Charter Commitments	X
	Level 4 - Achievement of Carbon Neutrality	
	Not Sure	