

Climate Action Revenue Incentive (CARIP) Public Report for 2016

District of Wells



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The District of Wells has completed the 2016 Climate Action Revenue Incentive Program (CARIP) Public Report as required by the Province of BC. The CARIP report summarizes actions taken in 2016 and those proposed for 2017 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.

2016 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 2016	
	Secured grant funding to revise the District's Official Community Plan.
Community-Wide Actions Proposed for 2017	
	Initiate revisions to the District's Official Community Plan.

Corporate Actions Taken in 2016	
	None noted
Corporate Actions Proposed for 2017	
	None noted

Commonly asked Questions	
What GHG reduction targets are included in your local government's Official Community Plan or Regional Growth Strategy?	No
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:	Yes
Does your local government have a climate action reserve fund?	No
Does your local government have a Corporate Climate Action Plan?	Yes

2016 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 2016	
	Continued operation of the Geothermal Heating system at the municipally owned elementary school.
Community-Wide Actions Proposed for 2017	
	None noted

Corporate Actions Taken in 2016	
	Continued operation of the Geothermal Heating system at the municipally owned elementary school.
Corporate Actions Proposed for 2017	
	Replace two 50 plus year old Bryan oil fired boilers at the Wells-Barkerville Elementary School with high efficiency propane fired condensing boilers in order to: <ol style="list-style-type: none"> 1. Improve heating efficiency and building comfort; 2. Reduce fuel consumption and operational costs; and 3. Reduce the District's green-house gas (GHG) emissions

2016 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 2016	
	None noted

Community-Wide Actions Proposed for 2017	
	None noted

Corporate Actions Taken in 2016	
	None noted
Corporate Actions Proposed for 2017	
	None noted
	Investigating opportunities to develop district energy system to support municipal buildings located in north Wells.

Commonly asked 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?	Yes
Is your local government operating a renewable energy project?	Yes
Are you aware of the Integrated Resource Recovery guidance page on the BC Climate Action Toolkit (insert link here)?	Yes

2016 GREENSPACE/ NATURAL RESOURCE PROTECTION 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 2016	
	Provision of municipal lands for Community Garden and Farmers Market.
	Trails maintained / constructed in 2016.
Community-Wide Actions Proposed for 2017	
	Provision of municipal lands for Community Garden and Farmers Market.

Corporate Actions Taken in 2016	
	Municipal support for the Wells Community Forest.
Corporate Actions Proposed for 2017	
	Municipal support for the Wells Community Forest.

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

2016 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 2016	
	In partnership with the Cariboo Regional District continue a local recycling program for paper, cardboard, plastics, glass and styrofoam.
	Provide facilities for local bottling collection depot.
	Support community composting program.

Community-Wide Actions Proposed for 2017	
	Provide facilities for local bottle collection depot.
	In partnership with the Cariboo Regional District continue support for a local recycling program for paper, cardboard, plastics, glass and styrofoam.
	Support community composting program.

Corporate Actions Taken in 2016	
	Provide facilities for local bottle collection depot.
	In partnership with the Cariboo Regional District continue support for a local recycling program for paper, cardboard, plastics, glass and styrofoam.
Corporate Actions Proposed for 2017	
	Provide facilities for local bottle collection depot.
	In partnership with the Cariboo Regional District continue support for a local recycling program for paper, cardboard, plastics, glass and styrofoam.

Commonly asked Questions	
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?	Yes

2016 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 2016	
	Continue support and administration of a weekly community bus service between Wells and Quesnel.
	Maintain community wide 30 km/hr speed limit on all municipal roads to encourage pedestrian use.
Community-Wide Actions Proposed for 2017	
	Continue support and administration of a weekly community bus service between Wells and Quesnel.
	Maintain community wide 30 km/hr speed limit on all municipal roads to encourage pedestrian use.

Corporate Actions Taken in 2016	
	Encourage employees to engage in physical activity; note, 50% of full-time staff walk to work on a regular basis.
Corporate Actions Proposed for 2017	
	Encourage employees to engage in physical activity.

Commonly asked Questions	
Does your local government have policies, plans or programs to support:	
• Walking	Yes
• Cycling	Yes
• Transit Use	Yes
• Electric Vehicle Use	No
• 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

2016 WATER AND WASTEWATER ACTIONS

Water and Wastewater

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 2016	
	None noted.
Community-Wide Actions Proposed for 2017	
	None noted.

Corporate Actions Taken in 2016	
	None noted.
Corporate Actions Proposed for 2017	
	None noted.

Commonly asked Questions	
Does your local government have water conservation policies, plans or programs?	No

2016 CLIMATE CHANGE ADAPTATION ACTIONS

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 2016	
	Reducing material use through an increase in on-line marketing presence.
Community-Wide Actions Proposed for 2017	
	Reducing material use through an increase in on-line marketing presence and media distribution.

Corporate Actions Taken in 2016	
	None noted.
Corporate Actions Proposed for 2017	
	None noted.

2016 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 2016	
	Local Farmers Market supported.
Community-Wide Actions Proposed for 2017	
	Local Farmers Market supported.

Corporate Actions Taken in 2016	
	None noted.
Corporate Actions Proposed for 2017	
	None noted.

INNOVATION AND PEER-TO-PEER LEARNING

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
Federal Gas Tax Grant Funding

2016 CARBON NEUTRAL REPORTING

Reporting Emissions

Did you measure your local government's corporate GHG emissions in 2016	Yes
If your local government measured 2016 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:	100.58
If your local government measured 2016 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 2016	100.58 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 2016 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	unknown
Solar/ Geothermal	21.87
Household Organic Waste Composting	unknown
Low Emission Vehicles	none
Avoided Forest Conversion	none
TOTAL B: REDUCTIONS FROM OPTION 1 PROJECTS FOR 2016	21.87+ tCO₂e

If applicable, please report the names and 2016 GHG emissions reductions (in tonnes of carbon dioxide equivalent (tCO2e)) being claimed from Option 2 GHG Reduction Projects:

OPTION 2 PROJECT NAME	REDUCTIONS
Upgrades to energy efficient lighting and windows in parts of the municipally owned elementary school. Total GHG reductions arising from this work has not been determined at this time. The District intends to review the energy efficiency improvements achieved through these projects later in 2017 after more complete billing data is available.	Unknown at this time
TOTAL C: REDUCTIONS FROM OPTION 2 PROJECTS FOR 2016	Unknown tCO2e

If applicable, please report the number of offsets purchased (in tonnes of carbon dioxide equivalent (tCO2e)) from an offset provider for the 2016 reporting year:

OFFSET PROVIDER	REDUCTIONS
None purchased	None
TOTAL D: OFFSETS PURCHASED FOR 2016	ZERO tCO2e

TOTAL REDUCTION AND OFFSETS FOR 2016 (Total B+C+D) = 21.87+ tCO2e

Corporate GHG Emissions Balance for 2016

Your local government's Corporate GHG Emissions Balance is the difference between total corporate GHG 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 2016 = (A – (B+C+D)) = 78.71 tCO2e

The District is monitoring and measuring its energy efficiency and GHG emissions and is working to reduce its future emissions. ■