

Survey Template

For the *2016 CARIP Climate Action/Carbon Neutral Progress Survey*

The 2016 CARIP Climate Action/Carbon Neutral Survey uses SurveyMonkey® software. SurveyMonkey® acquired FluidSurveys™, which is the software that was used for CARIP reporting for the past 2 years.

Local governments are required to submit the *2016 CARIP Climate Action/Carbon Neutral Progress Survey* on or before June 1, 2017.

Local governments are also required to publicly report the information submitted in the *2016 CARIP Climate Action/Carbon Neutral Progress Survey*. Local governments can generate a report by:

- creating a report based on the populated Survey Template; or,
- creating a report in another format that contains the information submitted in the 2016 CARIP Climate Action/Carbon Neutral Progress Survey.

In response to local government input, the Survey Template has been created to assist with collecting information for the *2016 CARIP Climate Action/Carbon Neutral Progress Survey*, and follows the same structure as the survey.

Responses entered into the Survey Template can be cut and pasted into the online survey. The survey asks for up to five actions in each category, and there is a place in the survey to report additional actions if desired. In the Survey Template, simply add more lines to the tables to report more than five actions.

Use of the Survey Template is recommended. Local governments are encouraged to edit the populated Survey Template and use it for their public report, **as the SurveyMonkey® survey will not enable survey respondents to generate a report of their responses.**

Further information on CARIP can be found on the [Ministry of Community Sport and Cultural Development's website](#).

The Government of BC will not collect, use, or disclose personal information using SurveyMonkey®. Please be aware however that IP addresses are collected by SurveyMonkey® itself, and these IP addresses and other information collected will be stored on SurveyMonkey®'s servers located outside of Canada. Please do not provide any third-party information (i.e. talk about others) in your responses to the survey.

Climate Action Revenue Incentive (CARIP) Public Report for 2016

Local Government: Town of Oliver

Report Submitted by: Town of Oliver

Name: Devon Wannop

Role: Chief Financial Officer

Email: dwannop@oliver.ca

Phone: 250-485-6201

Date: May 17, 2017

The [insert Local Government here] 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 proposed for 2017 to reduce corporate and community-wide energy consumption and greenhouse gas emissions (GHG) and reports on progress towards achieving carbon neutrality.

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	
	Started OCP in 2016
Community-Wide Actions Proposed for 2017	
	Adopted OCP in March 2017
	Park and Trails Review of Masterplan

Corporate Actions Taken in 2016	
	(No Response)
Corporate Actions Proposed for 2017	
	(No Response)

Broad Planning		
What is (are) your current GHG reduction target(s)?	Reduce Community GHG emissions by 2% from 2007 levels by 2020 and by 10% from 2007 levels by 2030. Also, reduce corporate GHG emissions by 10% from 2009 levels by 2020.	
Has your local government used the Community Energy and Emissions Inventory (CEEI) to measure progress?		No
What plans, policies or guidelines govern the implementation of climate mitigation in your community?	<ul style="list-style-type: none"> • Community Energy and Emissions (CEE) Plan • Climate Action Plan • Integrated Community Sustainability Plan • Official Community Plan (OCP) • Regional Growth Strategy (RGS) • Do not have a plan • Other: Community Wide Action Plan 	No Yes No Yes Yes No Yes
Does your local government have a corporate GHG reduction plan?		Yes
Does your local government have a climate reserve fund or something similar?		No

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	
	Participate and encourage community involvement in earth hour.
	Handed out clothes lines in 2016 to help reduce the drying usage.
Community-Wide Actions Proposed for 2017	
	Continue to participate and encourage community involvement in earth hour.
	Continue to hand out clothes lines in 2017 to help reduce the drying usage.

Corporate Actions Taken in 2016	
	Retrofitting streetlights with more energy efficient LED lights
Corporate Actions Proposed for 2017	
	Continue Retrofitting streetlights with more energy efficient LED Lights
	Continue to monitor electricity usage around buildings and street lights

2016 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 2016	
	(No Response)
Community-Wide Actions Proposed for 2017	
	(No Response)

Corporate Actions Taken in 2016	
	Continued to explore grant funding for solar photovoltaic array
Corporate Actions Proposed for 2017	
	Continue to explore grant funding for solar photovoltaic array

Energy Generation	
Is your local government developing, or constructing: <ul style="list-style-type: none"> • A district energy system • A renewable energy system 	No 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?	Yes
Are you aware of the Integrated Resource Recovery guidance page on the BC Climate Action Toolkit ?	Yes

2016 GREENSPACE/ NATURAL RESOURCE PROTECTION ACTIONS

Green-space Actions

Green-space/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	
	On larger subdivisions it is a requirement to connect to the walking trails
Community-Wide Actions Proposed for 2017	
	Reviewing Trails Masterplan

Corporate Actions Taken in 2016	
	Continued tree replacement program
	Riparian area designation protection on a property in the industrial zone.
Corporate Actions Proposed for 2017	
	Planning to construct new park adjacent to the Town's hike and bike trail

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

2016 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 2016	
	Continue to support all Regional recycling, yard waste and waste collection initiatives
	Distributed recycling education materials to all residents
Community-Wide Actions Proposed for 2017	
	Continue to support all Regional recycling, yard waste and waste collection initiatives
	Distributed recycling education materials to all residents
	Review the bin system with the regional program.

Corporate Actions Taken in 2016	
	Provided Christmas tree and spring yard waste chipping to residents
	Continue composting organics to make soil.
	Improved educational materials for the different types of products.
Corporate Actions Proposed for 2017	
	Provided Christmas tree and spring yard waste chipping to residents
	Continue composting organics to make soil.

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

2016 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, ride-sharing, and public transit, can contribute to reductions in greenhouse gas emissions and more livable communities.

Community -Wide Actions Taken in 2016	
	Continue to partner with BC transit to provide transit services.
	Worked with RDOS to implement a transit system between Osoyoos and Kelowna. Stop in Oliver

Community-Wide Actions Proposed for 2017	
	The traffic calming study with BC infrastructure.
	Carpool.ca partner with RDOS and try to and reduce the number of drivers.

Corporate Actions Taken in 2016	
	Install GPS fleet management system in Town's vehicle fleet
	Continue to replace vehicle fleet with more efficient models
Corporate Actions Proposed for 2017	
	Completed in 2017 the electric charging station within Town's boundaries
	Continue to replace vehicle fleet with more efficient models.

Transportation	
Does your local government have policies, plans or programs to support:	
• Walking	Yes
• Cycling	No
• Transit Use	No
• Electric Vehicle Use	No
• Other (please specify)	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 behaviour)?	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

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	
	Completed the water utility leak adjustment policy
	Continue to provide leak letters to residents with leaks
	Prepare an assessment of the Town's canal irrigation water system
Community-Wide Actions Proposed for 2017	
	Drought management plan completed
	Completed assessment of the Town's Canal irrigation water system

Corporate Actions Taken in 2016	
	Continue replacing water pumps with more efficient VFD pumps.
	Member of the "OBWB make water work"
Corporate Actions Proposed for 2017	
	Continue to monitor and apply for grants for the Aeration cells due to desludging
	Member of the "OBWB make water work"
Water Conservation	
Does your local government have water conservation policies, plans or programs?	Yes

2016 CLIMATE CHANGE ADAPTATION ACTIONS

Climate Change Adaptation Actions

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.

Climate Change Adaptation Actions Taken in 2016	
	Completed a drought and water restriction
Climate Change Adaptation Actions Proposed for 2017	
	(No Response)

Resources you have used to support climate change adaptation (e.g. Plan2Adapt , Preparing for Climate Change: Implementation Guide)	
	(No Response)

In 2016 did you consider climate change impacts in any of the following areas? (check if yes)	
Risk reduction strategies Risk and Vulnerability assessment Asset management Infrastructure upgrades (e.g. stormwater system upgrades) Cross-department working groups Emergency response planning Land-use policy changes (eg. OCP, DPA) Economic diversification initiatives Ecosystem-based approaches (incl. shorelines) Incentives (e.g. property owner reducing stormwater run-off) Public education and awareness Research (e.g. mapping, participation in studies)	Yes

Other (Please Identify):	
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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	
	(No Response)
Community-Wide Actions Proposed for 2017	
	(No Response)

Corporate Actions Taken in 2016	
	Prepared business case to move to paperless Council agendas
	Implement an electronic document management system.
	Promoted online home-owner grants, EFT's and email bill transfer.
	Promoted complaints online rather than telephone or paper.
Corporate Actions Proposed for 2017	
	Completed business case to move to paperless Council agendas
	Continue to promote online home-owner grants, EFT's and email bill transfer.
	Continue to promote complaints online rather than telephone or paper.

Other	
Are you familiar with the Community Lifecycle Infrastructure Costing Tool (CLIC) ?	No
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 or climate change adaptation activity that your local government has undertaken and that has had 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
(No Response)
Corporate Innovative Action
(No Response)

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.

Programs and Funding
(No Response)

2016 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 survey, please ensure that you are familiar with guidance available on the B.C. Climate Action Toolkit website, especially Becoming Carbon Neutral: A Guide for Local Governments in British Columbia.

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:	195.4601
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:	49.2215
TOTAL A: CORPORATE GHG EMISSIONS FOR 2016	244.6816 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 GCC-supported Option 1 Projects
- undertake GCC-supported Option 2 Projects (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	(No Response)
Solar Thermal	(No Response)
Household Organic Waste Composting	(No Response)
Low Emission Vehicles	(No Response)
Avoided Forest Conversion	(No Response)
TOTAL B: REDUCTIONS FROM OPTION 1 PROJECTS FOR 2016	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
(No Response)	(No Response)
(No Response)	(No Response)
TOTAL C: REDUCTIONS FROM OPTION 2 PROJECTS FOR 2016	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:

(NOTE: DO NOT INCLUDE ANY FUNDS THAT MAY BE SET ASIDE IN A CLIMATE ACTION RESERVE FUND)

OFFSET PROVIDER NAME	OFFSETS
Offsetters	245.0000
(No Response)	(No Response)
TOTAL D: OFFSETS PURCHASED FOR 2016	245.0000 tCO2e

TOTAL REDUCTIONS AND OFFSETS FOR 2016 (Total B+C+D) = 245.0000 tCO2e

Corporate GHG Emissions Balance for 2016

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 2016 = (A – (B+C+D)) = -0.3184 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.

This year a new recognition level has been added – **Level 3: Accelerating Progress on Charter Commitments**–. 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 the Community Energy and Emissions Inventory (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 (ie: 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 NAME:
(No Response)

Based on your local government's 2016 CARIP Climate Action/Carbon Neutral Progress Survey, please check the GCC Climate Action Recognition Program level that best applies:

<input type="checkbox"/>	Level 1 – Demonstrating Progress on Charter Commitments	
<input type="checkbox"/>	Level 2 – Measuring GHG Emissions	
<input type="checkbox"/>	Level 3 – Accelerating Progress on Charter Commitments	
<input checked="" type="checkbox"/>	Level 4 - Achievement of Carbon Neutrality	YES
<input type="checkbox"/>	Not Sure	

**Carbon Tax Calculation Form
Under the Climate Action Revenue Incentive Program**

Local Government Name:	Town of Oliver
Contact Information:	
Name:	Devon Wannop
Position:	Chief Financial Officer
Telephone Number:	250-485-6201
Email address:	dwannop@oliver.ca

**Calculation of carbon tax paid directly by the local government
for fuel purchased between January 1 and December 31, 2016**

Fuel Type	Unit measure	Units	Tax Rate per unit, January 1, 2016 to December 31, 2016	Carbon Tax paid
Most common fuels in a local government context:				
Gasoline	Litre	30,686.58	0.0667	2046.79
Diesel	Litre	21,293.41	0.0767	1633.20
Bio-Diesel ²	Litre		0.0767	0.00
Natural Gas	Gigajoule ³	1,043.70	1.4898	1554.90
Natural Gas	m ³		0.057	0.00
Propane	Litre	432.00	0.0462	19.96
Other fuels which are taxed:				
Heating Oil	Litre		0.0767	0
Locomotive Fuel	Litre		0.0767	0
Heavy Fuel Oil	Litre		0.0945	0
Aviation Fuel	Litre		0.0738	0
Jet Fuel	Litre		0.0783	0
Kerosene	Litre		0.0783	0
Naphtha	Litre		0.0765	0
Methanol	Litre		0.0327	0
Butane	Litre		0.0528	0
Ethane	Litre		0.0294	0
Refinery Gas	m ³		0.0528	0
Coke Oven Gas	m ³		0.0483	0
Coal -- Low Heat Value ⁴	Tonne		53.31	0
Coal -- High Heat Value ⁴	Tonne		62.31	0
Coke	Tonne		74.61	0
Petroleum Coke	Litre		0.1101	0
Tires -- shredded ⁵	Tonne		71.73	0
Tires -- whole ⁵	Tonne		62.4	0
Peat	Tonne		30.66	0
Total Carbon Tax Paid:				5254.86

1. Only list fuels that were purchased for the local government's own use, on which carbon tax was paid, and where that carbon tax was not refunded or recovered from another party (e.g., through a lease arrangement). Also do not include any fuels that were exempted from carbon tax (for more information)
2. Bio-diesel blends must be prorated in order to claim the diesel and bio-diesel portions on the appropriate line. The proportion of the blend (B5, B10, B15 etc) that is conventional hydrocarbon-based diesel is included on the diesel line; consequently, the bio-diesel pro-rated amount must be entered on the bio-diesel line. For example, a 10,000 litre purchase of B10, which is 10% bio-diesel and 90% hydrocarbon-based diesel, would be recorded as 9,000 litres hydrocarbon-based diesel (90% of 10,000 purchased litres) and bio-diesel would be recorded as 1000 litres (10% of purchased bio-diesel).
3. Marketable Natural Gas may be recorded at either Gigajoules or m³
4. Low Heat Value Coal includes Sub-Bituminous Coal; High Heat Value Coal includes Bituminous Coal
5. Only include tires if they are combusted

I declare that the information contained in this Carbon Tax Calculation Form is true and correct and based on actual accounting records and not estimates. I am also aware of the requirement to report publicly by June 1st.



Signature of Financial Officer