

Climate Action Revenue Incentive (CARIP) Public Report for 2016

Local Government: Town of Oliver

Report Submitted by: Town of Oliver

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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 | |
| <input type="checkbox"/> | Started OCP in 2016 |
| Community-Wide Actions Proposed for 2017 | |
| <input type="checkbox"/> | Adopted OCP in March 2017 |
| <input type="checkbox"/> | Park and Trails Review of Masterplan |

| | |
|--|---------------|
| Corporate Actions Taken in 2016 | |
| <input type="checkbox"/> | (No Response) |
| Corporate Actions Proposed for 2017 | |
| <input type="checkbox"/> | (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? | 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 | |
|---|---|
| <input type="checkbox"/> | On larger subdivisions it is a requirement to connect to the walking trails |
| Community-Wide Actions Proposed for 2017 | |
| <input type="checkbox"/> | Reviewing Trails Masterplan |

| Corporate Actions Taken in 2016 | |
|--|--|
| <input type="checkbox"/> | Continued tree replacement program |
| <input type="checkbox"/> | Riparian area designation protection on a property in the industrial zone. |
| Corporate Actions Proposed for 2017 | |
| <input type="checkbox"/> | 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: | |
| <ul style="list-style-type: none"> • Walking • Cycling • Transit Use • Electric Vehicle Use • Other (please specify) | Yes No No No 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 | |
| <input type="checkbox"/> | Continue replacing water pumps with more efficient VFD pumps. |
| <input type="checkbox"/> | Member of the "OBWB make water work" |
| Corporate Actions Proposed for 2017 | |
| <input type="checkbox"/> | Continue to monitor and apply for grants for the Aeration cells due to desludging |
| <input type="checkbox"/> | 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 | |
| <input type="checkbox"/> | Completed a drought and water restriction |
| Climate Change Adaptation Actions Proposed for 2017 | |
| <input type="checkbox"/> | (No Response) |

| | |
|---|---------------|
| Resources you have used to support climate change adaptation (e.g. Plan2Adapt, Preparing for Climate Change: Implementation Guide) | |
| <input type="checkbox"/> | (No Response) |

| | |
|--|------------|
| In 2016 did you consider climate change impacts in any of the following areas? (check if yes) | |
| <ul style="list-style-type: none"> 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): | |
|--------------------------|--|

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 <u>Community Lifecycle Infrastructure Costing Tool (CLIC)</u> ? | 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 | 244.6815 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)) = -0.3185 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:

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