

# Climate Action Revenue Incentive (CARIP) Public Report for 2016

**Local Government: Town of Gibsons**

**Report Submitted by:**

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The Town of Gibsons 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     |                               |
|--|-------------------------------|
|  | n/a (OCP was updated in 2015) |
|  |                               |
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|  |                               |
| Community-Wide Actions Proposed for 2017 |                               |
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| Corporate Actions Taken in 2016     |     |
|-------------------------------------|-----|
|                                     | n/a |
|                                     |     |
|                                     |     |
|                                     |     |
| Corporate Actions Proposed for 2017 |     |
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| Broad Planning                                      |  |
|---|--|
| What is (are) your current GHG reduction target(s)? | Community emissions reduction of 7% below 2007 levels by 2030. |

|   |  |
|---|--|
| Has your local government used the Community Energy and Emissions Inventory (CEEI) to measure progress?   | <b>Yes</b>   |
| What plans, policies or guidelines govern the implementation of climate mitigation in your community? <ul style="list-style-type: none"> <li>• Community Energy and Emissions (CEE) Plan</li> <li>• Climate Action Plan</li> <li>• Integrated Community Sustainability Plan</li> <li>• Official Community Plan (OCP)</li> <li>• Regional Growth Strategy (RGS)</li> <li>• Do not have a plan</li> <li>• Other:</li> </ul> | <b>Yes</b><br><b>No</b><br><b>Yes</b><br><b>Yes</b><br><b>No</b> |
| Does your local government have a corporate GHG reduction plan?   | <b>No</b>  |
| Does your local government have a climate reserve fund or something similar?  | <b>No</b>  |

**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.

| <b>Community-Wide Actions Taken in 2016</b>     |   |
|---|---|
|   | Promotion of BC Hydro and Fortis BC incentives at counter and on-line |
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| <b>Community-Wide Actions Proposed for 2017</b> |   |
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| <b>Corporate Actions Taken in 2016</b> |   |
|--|---|
|  | Health Building Air-conditioning Unit Replacement |
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|  |   |
|  |   |

| Corporate Actions Proposed for 2017 |   |
|-------------------------------------|---|
|                                     | Arts Building lighting switch over to LED |
|                                     |   |
|                                     |   |
|                                     |   |

## 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     |   |
|--|---|
|  | Continued operation of geothermal district energy utility in Parkland neighbourhood |
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| Community-Wide Actions Proposed for 2017 |   |
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| Corporate Actions Taken in 2016     |   |
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| Corporate Actions Proposed for 2017 |   |
|                                     | Review and improve management of geothermal district energy utility |
|                                     |   |

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| Energy Generation   |            |
|---|------------|
| Is your local government developing, or constructing: <ul style="list-style-type: none"> <li>• A district energy system</li> <li>• A renewable energy system</li> </ul> | No<br>No   |
| Is your local government operating: <ul style="list-style-type: none"> <li>• A district energy system</li> <li>• A renewable energy system</li> </ul>                   | Yes<br>Yes |
| 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 <a href="#">BC Climate Action Toolkit</a> ?  | Yes        |

## 2016 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 2016     |  |
|--|--|
|  | Planting of additional street trees        |
|  | Arrowhead Park Tree Assessment             |
|  | White Tower Park Natural Capital Valuation |
|  |  |
|  |  |
| Community-Wide Actions Proposed for 2017 |  |
|  | Planting of additional street trees        |
|  |  |
|  |  |
|  |  |

| Corporate Actions Taken in 2016 |   |
|---------------------------------|---|
|                                 | Partner in Municipal Natural Assets Initiative                          |
|                                 | Cooperation with David Suzuki Foundation on valuation of natural assets |
|                                 | Integration of natural assets in engineered asset management practices  |

|  |  |
|--|--|
|  | Cole's Access slope rehabilitation   |
|  |  |
| <b>Corporate Actions Proposed for 2017</b> |  |
|  | Integrated Stormwater Management Plan update will focus on the management and preservation of natural assets as a key component of our stormwater service. |
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|---|-----------|
| <b>Greenspace</b>   |           |
| Does your local government have urban forest policies, plans or programs? | <b>No</b> |

## 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.

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|---|--|
| <b>Community-Wide Actions Taken in 2016</b>     |  |
|   | Zero Waste Select Committee review completed   |
|   | Green Waste Collection Site improved and expanded  |
|   |  |
|   |  |
| <b>Community-Wide Actions Proposed for 2017</b> |  |
|   | Work with Sunshine Coast Regional District towards the implementation of waste reduction recommendations |
|   | Community Wide Survey  |
|   | RFP process for organics diversion   |
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| <b>Corporate Actions Taken in 2016</b>     |  |
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| <b>Corporate Actions Proposed for 2017</b> |  |
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| <b>Solid Waste</b>   |           |
| Does your local government have construction and demolition waste reduction policies, plans or programs? | <b>No</b> |
| Does your local government have organics reduction/diversion policies, plans or programs?                | <b>No</b> |

## 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, ridesharing, and public transit, can contribute to reductions in greenhouse gas emissions and more livable communities.

|   |   |
|---|---|
| <b>Community -Wide Actions Taken in 2016</b>    |   |
|   | Completion of Helen’s Way multi use trail between Lower and Upper Gibsons           |
|   |   |
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|   |   |
| <b>Community-Wide Actions Proposed for 2017</b> |   |
|   | Completion of advisory bike lanes along Shaw Road, connecting to Helen’s Way        |
|   | Installation of a multi use pathway along Gibsons Way between School and North Road |
|   | Installation of an additional electrical car charging station                       |
|   |   |
|   |   |

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|--|---|
| <b>Corporate Actions Taken in 2016</b>     |   |
|  | Participation in Bike To Work Week                                    |
|  | Participation in the Sunshine Coast Car Co-op by staff for work trips |
|  |   |
|  |   |
|  |   |
| <b>Corporate Actions Proposed for 2017</b> |   |
|  | Participation in Bike To Work Week                                    |
|  |   |
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| <b>Transportation</b>   |                                |
|---|--------------------------------|
| Does your local government have policies, plans or programs to support: <ul style="list-style-type: none"> <li>• Walking</li> <li>• Cycling</li> <li>• Transit Use</li> <li>• Electric Vehicle Use</li> <li>• Other (please specify)</li> </ul> | Yes<br>Yes<br>Yes<br>Yes<br>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)?              | Yes                            |
| 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.

| <b>Community-Wide Actions Taken in 2016</b>     |   |
|---|---|
|   | Active enforcement of water regulations during summer drought |
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| <b>Community-Wide Actions Proposed for 2017</b> |   |
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| <b>Corporate Actions Taken in 2016</b>     |   |
|--|---|
|  | Improvements to Waste Water Treatment Plant installed |
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| <b>Corporate Actions Proposed for 2017</b> |   |
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| <b>Water Conservation</b>   |               |
| Does your local government have water conservation policies, plans or programs? | <b>Yes/No</b> |

## 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 Foreshore study regarding environmental improvements and sea level rise adaptation for the shoreline along Marine Drive |
|   |   |
|   |   |
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|   |   |
| Climate Change Adaptation Actions Proposed for 2017 |   |
|   | Start of the implementation of the Foreshore design concept at Armour's Beach   |
|   |   |
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|   |   |

| Resources you have used to support climate change adaptation (e.g. <a href="#">Plan2Adapt</a> , <a href="#">Preparing for Climate Change: Implementation Guide</a> ) |  |
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| 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)            |   |
| 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     |  |
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| Community-Wide Actions Proposed for 2017 |  |
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| Corporate Actions Taken in 2016     |  |
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| Corporate Actions Proposed for 2017 |  |
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| Other  |     |
|--|-----|
| Are you familiar with the <a href="#">Community Lifecycle Infrastructure Costing Tool (CLIC)</a> ? | 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 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  |
|---|
|   |
| Corporate Innovative Action   |
| The Town has continued to develop its Eco Asset Strategy, incorporating natural assets into our asset management efforts for the community. |

### 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 |
|----------------------|
|                      |

## 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?   | <b>Yes</b>                  |
| 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: | <b>117 tCO<sub>2</sub>e</b> |
| 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:                                  | <b>26 tCO<sub>2</sub>e</b>  |
| <b>TOTAL A: CORPORATE GHG EMISSIONS FOR 2016</b>   | <b>143 tCO<sub>2</sub>e</b> |

### 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 (tCO<sub>2</sub>e)) 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                                  |              |
|  |              |
| <b>TOTAL B: REDUCTIONS FROM OPTION 1 PROJECTS FOR 2016</b> | <b>tCO2e</b> |

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   |
|--|--------------|
|  |              |
|  |              |
|  |              |
|  |              |
|  |              |
| <b>TOTAL C: REDUCTIONS FROM OPTION 2 PROJECTS FOR 2016</b> | <b>tCO2e</b> |

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      |
|--|--------------|
|  |              |
|  |              |
|  |              |
|  |              |
|  |              |
| <b>TOTAL D: OFFSETS PURCHASED FOR 2016</b> | <b>tCO2e</b> |

**TOTAL REDUCTIONS AND OFFSETS FOR 2016 (Total B+C+D) = 0 tCO<sub>2</sub>e**

## **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)) = 143 tCO<sub>2</sub>e**

**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:**

|                      |
|----------------------|
| <b>PROJECT NAME:</b> |
|                      |

**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 type="checkbox"/> | Level 4 - Achievement of Carbon Neutrality              |   |
| <input type="checkbox"/> | Not Sure  |   |