

# Climate Action Revenue Incentive (CARIP) Public Report for 2015

## District of Wells



**Report Re-Submitted by:**

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The District of Wells has completed the 2015 Climate Action Revenue Incentive Program (CARIP) Public Report as required by the Province of BC. The CARIP report summarizes actions taken in 2015 and proposed for 2016 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.

## 2015 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 2015     |  |
|--|--|
|  | Secured grant funding to revised the District's Official Community Plan. |
|  |  |
| Community-Wide Actions Proposed for 2016 |  |
|  | Initiate revision of the District's Official Community Plan.             |
|  |  |

| Corporate Actions Taken in 2015     |            |
|-------------------------------------|------------|
|                                     | None noted |
|                                     |            |
| Corporate Actions Proposed for 2016 |            |
|                                     | None noted |
|                                     |            |

| Snapshot 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)   | No  |
| • 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 |

## 2015 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 2015     |  |
|--|--|
|  | Upgraded to energy efficient lighting in parts of the municipally owned elementary school.       |
|  | Upgraded to energy efficient windows in parts of the municipally owned elementary school.        |
|  | Continued operation of the Geothermal Heating system at the municipally owned elementary school. |
|  |  |
| Community-Wide Actions Proposed for 2016 |  |
|  | None noted   |

| Corporate Actions Taken in 2015     |  |
|-------------------------------------|--|
|                                     | Continued operation of the Geothermal Heating system at the municipally owned elementary school.   |
|                                     |  |
| Corporate Actions Proposed for 2016 |  |
|                                     | Investigate opportunities to replace two 50 plus year old Bryan oil fired boilers at the Wells-Barkerville Elementary School with propane fired high efficiency condensing boilers in order to: <ol style="list-style-type: none"> <li>1. Improve heating efficiency and building comfort;</li> <li>2. Reduce fuel consumption and operational costs; and</li> <li>3. Reduce the District's green-house gas (GHG) emissions</li> </ol> |
|                                     |  |

## 2015 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 2015 |            |
|--------------------------------------|------------|
|                                      | None noted |
|                                      |            |

| <b>Community-Wide Actions Proposed for 2016</b> |            |
|---|------------|
|   | None noted |

| <b>Corporate Actions Taken in 2015</b>     |            |
|--|------------|
|  | None noted |
|  |            |
| <b>Corporate Actions Proposed for 2016</b> |            |
|  | None noted |
|  |            |

| <b>Snapshot Questions</b>  |               |
|--|---------------|
| Is your local government developing, or constructing a district energy project?                                      | <b>No</b>     |
| Is your local government operating a district energy system?   | <b>No</b>     |
| Is your local government developing or constructing a renewable energy project?                                      | <b>Yes/No</b> |
| Is your local government operating a renewable energy project?   | <b>Yes</b>    |
| Are you aware of the Integrated Resource Recovery guidance page on the BC Climate Action Toolkit (insert link here)? | <b>Yes</b>    |

## 2015 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 2015     |  |
|--|--|
|  | Provision of municipal lands for Community Garden. |
|  | New bridge and trails constructed.                 |
|  |  |
| Community-Wide Actions Proposed for 2016 |  |
|  | Provision of municipal lands for Community Garden. |
|  |  |

| Corporate Actions Taken in 2015     |   |
|-------------------------------------|---|
|                                     | Municipal support for the Wells Community Forest. |
|                                     |   |
| Corporate Actions Proposed for 2016 |   |
|                                     | Municipal support for the Wells Community Forest. |
|                                     |   |

| Snapshot Question   |    |
|---|----|
| Does your local government have urban forest policies, plans or programs? | No |

## 2015 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 2015 |   |
|--------------------------------------|---|
|                                      | In partnership with the Cariboo Regional District initiate a local recycling program for paper, cardboard, plastics, glass and Styrofoam. |
|                                      | Provide facilities for local bottling collection depot.   |
|                                      | Support community composting program.   |

|   |   |
|---|---|
|   |   |
| <b>Community-Wide Actions Proposed for 2016</b> |   |
|   | 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.   |
|   |   |

|  |   |
|--|---|
| <b>Corporate Actions Taken in 2015</b>     |   |
|  | Provide facilities for local bottle collection depot. |
|  |   |
| <b>Corporate Actions Proposed for 2016</b> |   |
|  | Provide facilities for local bottle collection depot. |
|  |   |

|  |            |
|--|------------|
| <b>Snapshot Questions</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>Yes</b> |

## 2015 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.

|   |  |
|---|--|
| <b>Community -Wide Actions Taken in 2015</b>    |  |
|   | 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. |
|   |  |
| <b>Community-Wide Actions Proposed for 2016</b> |  |
|   | 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. |
|   |  |

| <b>Corporate Actions Taken in 2015</b>     |  |
|--|--|
|  | Encourage employees to engage in physical activity; note, 100% of full-time staff walk or bike to work on a regular basis.                   |
|  |  |
| <b>Corporate Actions Proposed for 2016</b> |  |
|  | Encourage employees to engage in physical activity; maintain goal that 100% of full-time staff will walk or bike to work on a regular basis. |
|  |  |

| <b>Snapshot Questions</b>  |            |
|--|------------|
| Does your local government have policies, plans or programs to support:  |            |
| • Walking  | <b>Yes</b> |
| • Cycling  | <b>Yes</b> |
| • Transit Use  | <b>Yes</b> |
| • Electric Vehicle Use   | <b>No</b>  |
| • Other  | <b>No</b>  |
| 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)? | <b>No</b>  |
| Does your local government have policies, plans or programs to support local food production (thus reducing transportation emissions)?   | <b>Yes</b> |

## 2015 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.

| <b>Community-Wide Actions Taken in 2015</b>     |             |
|---|-------------|
|   | None noted. |
|   |             |
| <b>Community-Wide Actions Proposed for 2016</b> |             |
|   | None noted. |
|   |             |

| <b>Corporate Actions Taken in 2015</b>     |             |
|--|-------------|
|  | None noted. |
|  |             |
| <b>Corporate Actions Proposed for 2016</b> |             |
|  | None noted. |
|  |             |

| Snapshot Questions  |    |
|---|----|
| Does your local government have water conservation policies, plans or programs? | No |

## 2015 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 2015     |   |
|--|---|
|  | Promote BC Hydro free energy assessment for business program.                                   |
|  | Reducing material use through an increase in on-line marketing presence.                        |
|  |   |
| Community-Wide Actions Proposed for 2016 |   |
|  | Reducing material use through an increase in on-line marketing presence and media distribution. |
|  |   |

| Corporate Actions Taken in 2015     |             |
|-------------------------------------|-------------|
|                                     | None noted. |
|                                     |             |
| Corporate Actions Proposed for 2016 |             |
|                                     | None noted. |
|                                     |             |

| Snapshot Questions   |     |
|--|-----|
| Are you aware of the Plan2Adapt guidance page on the <a href="#">BC Climate Action Toolkit</a> ?   | Yes |
| Are you aware of the <i>Preparing for Climate Change, An Implementation Guide for Local Governments in BC</i> on the <a href="#">BC Climate Action Toolkit</a> ? | Yes |
| Have you visited the climate change adaptation guidance page on the <a href="#">BC Climate Action Toolkit</a> ?  | Yes |



## 2015 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 2015     |                                 |
|--|---------------------------------|
|  | Local Farmers Market supported. |
|  |                                 |
| Community-Wide Actions Proposed for 2016 |                                 |
|  | Local Farmers Market supported. |
|  |                                 |

| Corporate Actions Taken in 2015     |             |
|-------------------------------------|-------------|
|                                     | None noted. |
|                                     |             |
| Corporate Actions Proposed for 2016 |             |
|                                     | None noted. |
|                                     |             |

## INNOVATION AND PEER-TO-PEER LEARNING

### Innovation

This section provides the opportunity to showcase an innovative Corporate and/or Community-Wide reduction or adaptation activity that your local government has undertaken and that has had a significant impact 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 |             |
|----------------------------------|-------------|
|                                  | None noted. |
| Corporate Innovative Action      |             |
|                                  | None noted. |

## 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 |

## 2015 CARBON NEUTRAL REPORTING

### Reporting Emissions

|  |                               |
|--|-------------------------------|
| Did you measure your local government's corporate GHG emissions in 2015?<br>(Yes/No)   | Yes                           |
| If your local government measured 2015 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: | 115.9                         |
| If your local government measured 2015 corporate GHG emissions, please report the number of corporate GHG emissions (in tonnes of carbon dioxide equivalent) from <u>contracted</u> services:                                  | 14.7                          |
| <b>TOTAL A: CORPORATE GHG EMISSIONS FOR 2015</b>   | <b>130.6 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 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 2015 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 | unknown    |
| Solar Thermal              | none       |

|  |                      |
|--|----------------------|
| Household Organic Waste Composting                         | unknown              |
| Low Emission Vehicles                                      | none                 |
| Avoided Forest Conversion                                  | none                 |
| <b>TOTAL B: REDUCTIONS FROM OPTION 1 PROJECTS FOR 2015</b> | <b>unknown tCO2e</b> |

If applicable, please report the names and 2015 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 2016 after more complete billing data is available. | Unknown at this time |
| <b>TOTAL C: REDUCTIONS FROM OPTION 2 PROJECTS FOR 2015</b>  | <b>Unknown tCO2e</b> |

If applicable, please report the number of offsets purchased (in tonnes of carbon dioxide equivalent (tCO2e)) from an offset provider for the 2015 reporting year:  
(NOTE: DO NOT INCLUDE ANY FUNDS THAT MAY BE SET ASIDE IN A CLIMATE ACTION RESERVE FUND)

| OFFSET PROVIDER                            | REDUCTIONS        |
|--|-------------------|
| None purchased                             | None              |
| <b>TOTAL D: OFFSETS PURCHASED FOR 2015</b> | <b>ZERO tCO2e</b> |

**TOTAL REDUCTION AND OFFSETS FOR 2015 (Total B+C+D) = UNKNOWN tCO2e**

### Corporate GHG Emissions Balance for 2015

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 2015 = (A – (B+C+D)) = UNKNOWN tCO<sub>2</sub>e**

**The District is monitoring and measuring its energy efficiency and GHG emissions and is developing implementation plans to help reduce and/or offset its emissions in the future.**

**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. Recognition is provided on an annual basis to local governments who demonstrate progress on their Charter commitments, according to the following:

**Level 1 – Progress on Charter Commitments:** for local governments who demonstrate progress on fulfilling one or more of their Charter commitments

**Level 2 – Measurement:** for local governments 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 – Achievement of Carbon Neutrality:** for local governments who achieve carbon neutrality in the reporting year.

**Based on your local government’s 2014 CARIP Public Report, please check the GCC Climate Action Recognition Program level that best applies:**

|                                     |   |          |
|-------------------------------------|---|----------|
| <input type="checkbox"/>            | Level 1 – Progress on Charter Commitments         |          |
| <input type="checkbox"/>            | Level 2 - Measurement                             |          |
| <input type="checkbox"/>            | Level 3 - Achievement of Carbon Neutrality        |          |
| <input checked="" type="checkbox"/> | <u>Not Sure – somewhere between Level 1 and 2</u> | <b>X</b> |