



# Climate Action Revenue Incentive (CARIP) Public Report for 2018

**Local Government:**

Regional District of Fraser-Fort George



**Report Submitted by:**

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The Regional District of Fraser-Fort George has completed the 2018 Climate Action Revenue Incentive Program (CARIP) Public Report as required by the Province of BC. The CARIP report summarizes actions taken in 2018 and proposed for 2019 to reduce corporate and community-wide energy consumption and greenhouse gas emissions (GHG) and reports on progress towards achieving carbon neutrality.

## 2018 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, and centred) plays an especially important role in energy and GHG reduction.

| <b>Broad Planning</b>   |  |
|---|--|
| <b>Q 12 What is (are) your current GHG reduction target(s)?</b>   | <i>Reduce Corporate GHG emissions by no less than 50% from 2007 levels by 2020</i> |
| <b>Q 13 Are you familiar with your local government's community energy and emissions inventory (e.g. <a href="#">CEEI</a> or another inventory)?</b>  | <b>Yes</b>   |
| <b>Q 14 What plans, policies or guidelines govern the implementation of climate mitigation in your community?</b> <ul style="list-style-type: none"> <li>• Community Energy and Emissions Plan</li> <li>• Integrated Community Sustainability Plan</li> <li>• Community- Wide Climate Action Plan</li> <li>• Official Community Plan</li> <li>• Regional Growth Strategy</li> </ul> | <b>No</b><br><b>No</b><br><b>No</b><br><b>Yes</b><br><b>No</b>                     |
| <b>Q 15 Does your local government have a corporate GHG reduction plan?</b>   | <b>Yes</b>   |

## 2018 BUILDING 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>Q 16 + Q 17 Community-Wide Building and Lighting Actions Taken in 2018 + Additional Actions</b>   |  |
|--|--|
|  | Supply 'Solar ready' information packages for new home construction or renovations   |
|  | The RDFFG waived heating unit installation permit fees for homeowners who qualified for the PG AIR wood exchange program. The program removed old wood burning units and replaced them with new wood burning units with a lower emission rate.           |
|  |  |
| <b>Q 18 Community-Wide Building and Lighting Actions Proposed for 2019</b>   |  |
|  | Continue to supply 'Solar ready' information packages for new home construction or renovations   |
|  | The RDFFG will again waive heating unit installation permit fees for homeowners who qualified for the PG AIR wood exchange program. The program removed old wood burning units and replaced them with new wood burning units with a lower emission rate. |
|  |  |
| <b>Q 19 + Q 20 Corporate Building and Lighting Actions Taken in 2018 + Additional Actions</b>  |  |
|  | Ferndale-Tabor VFD: LED lights, radiant heaters, EnergyStar appliances, hot water tank and furnace   |
|  | Bear Lake VFD/Commission: LED lights, triple pane windows and new furnace  |
|  | Beverly VFD: Electrical use monitoring and assessment  |
|  | Dome Creek Community Hall: energy assessment   |
|  | Miworth Community Hall condition assessment  |
|  |  |
| <b>Q 21 Corporate Building and Lighting Actions Proposed for 2019</b>  |  |
|  | Facility condition assessment of Regional District fire services buildings   |
|  | Main office interior security lighting converted to LED lighting   |
|  | Beverly VFD interior LED and heating upgrade   |
|  | Bear Lake Community Hall energy assessment   |
|  | Dome Creek Community Hall: energy retrofits  |
|  |  |
| <b>Building and Lighting</b>   |  |
| The Province has committed to taking incremental steps to increase energy-efficiency requirements in the BC Building Code to make buildings net-zero energy ready by 2032. The BC Energy Step Code--a part of the BC Building Code--supports that effort |  |
| <b>Q 22 Is your local government aware of the <a href="#">BC Energy Step Code</a>?</b>   | Yes  |
| <b>Q 23 Is your local government implementing the <a href="#">BC Energy Step Code</a>?</b>   | No   |

## P5 2018 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.

| Q 27 + Q 28 Corporate Energy Generation Actions Taken in 2018 + Additional Actions |  |
|--|--|
|  |  |
| Q 29 Corporate Energy Generation Actions Proposed for 2019                         |  |
|  | Assess solar power for remote communication services                                   |
|  | Re-assess viability of connecting to the City of Prince George community energy system |
|  |  |

| Energy Generation  |          |
|--|----------|
| <b>Q 30 Is your local government developing, or constructing a</b> <ul style="list-style-type: none"> <li>• district energy system</li> <li>• renewable energy system</li> </ul> | No<br>No |
| <b>Q 31 Is your local government operating a</b> <ul style="list-style-type: none"> <li>• district energy system</li> <li>• renewable energy system</li> </ul>                   | No<br>No |
| <b>Q 32 Is your local government connected to a district energy system that is operated by another energy provider?</b>  | No       |
| <b>Q 33 Are you familiar with the 2018 <a href="#">List of Funding Opportunities for Clean Energy Projects Led by First Nations and Local Governments?</a></b>                   | Yes      |

## 2018 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.

| Greenspace  |    |
|---|----|
| Q 41 Does your local government have urban forest policies, plans or programs?                      | No |
| Q 35. Does your local government have policies, plans or programs to support local food production? | No |

## 2018 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.

| Q 42 + Q 43 Community-Wide Solid Waste Actions Taken in 2018 + Additional Actions |   |
|---|---|
|   | Continue contract with REAPS for the recycling and composting education programs in the Regional District   |
|   | Organized a spring and fall "Junk in your Trunk" where members of the community could rent a space to have a centralized garage sale and prevent those items sold from being landfilled |
|   | Community recycling education   |
|   | Promote back yard composting  |
|   | MMR recycling program   |
|   | Cardboard diversion program   |
|   |   |
| Q 44 Community-Wide Solid Waste Actions Proposed for 2019                         |   |
|   | Study on organic waste diversion possibilities  |
|   | Continue contract with REAPS for the recycling and composting education programs in the Regional District   |
|   | Organized a spring and fall "Junk in your Trunk" where members of the community could rent a space to have a centralized garage sale and prevent those items sold from being landfilled |
|   | Community recycling education   |

|  |   |
|--|---|
|  | Promote back yard composting  |
|  | MMR recycling program   |
|  | Cardboard diversion program   |
|  | Assessment of transfer stations for increased recycling opportunities |

| <b>Q 45 + Q 46 Corporate Solid Waste Actions Taken in 2018 + Additional Actions</b> |   |
|---|---|
|   | Continue to implement new solid waste management plan |
|   | Continue to explore landfill gas utilization          |
|   |   |
| <b>Q 47 Corporate Solid Waste Actions Proposed for 2019</b>                         |   |
|   | Continue to implement new solid waste management plan |
|   | Move to landfill gas utilization                      |
|   |   |

| <b>Solid Waste</b>   |            |
|--|------------|
| <b>Q 48 Does your local government have construction and demolition waste reduction policies, plans or programs?</b> | <b>No</b>  |
| <b>Q 49 Does your local government have organics reduction/diversion policies, plans or programs?</b>                | <b>Yes</b> |

## 2018 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 and public transit, can contribute to reductions in GHG emissions and more livable communities.

| <b>Q 50 + Q 51 Community-Wide Transportation Actions Taken in 2018 + Additional Actions</b> |  |
|---|--|
|   | “Charge North” Advisory Committee with Community Energy Association – EV transportation and charging network |
| <b>Q 52 Community-Wide Transportation Actions Proposed for 2019</b>                         |  |
|   | Charge North” Advisory Committee with Community Energy Association – EV transportation and charging network  |

| <b>Q 53 + Q 54 Corporate Transportation Actions Taken in 2018 + Additional Actions</b> |  |
|--|--|
|  | Continue Electric vehicle share program with UNBC, Northern Health and City of Prince George |
|  |  |
|  |  |
| <b>Q 55 Corporate Transportation - Actions Proposed for 2019</b>                       |  |
|  | Continue Electric vehicle share program with UNBC, Northern Health and City of Prince George |
|  | "Right size" new vehicles and replacement vehicles   |
|  | Grant application submitted for 5 Level 2 EV charging stations for RDFFG buildings           |

| <b>Transportation</b>   |  |
|---|--|
| <b>Q 56 Does your local government have policies, plans or programs to support:</b> <ul style="list-style-type: none"> <li>• Walking</li> <li>• Cycling</li> <li>• Transit Use</li> <li>• Electric Vehicle Use</li> </ul>                       | <b>Yes</b><br><b>No</b><br><b>No</b><br><b>Yes</b> |
| <b>Q 57 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)?</b> | <b>No</b>  |
| <b>Q 58 Does your local government integrate its transportation and land use planning?</b>  | <b>No</b>  |

## 2018 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 GHG emissions.

|  |   |
|--|---|
| <b>Q 62 + Q 63 Corporate Water and Wastewater Actions Taken in 2018 + Additional Actions</b> |   |
|  |   |
| <b>Q 64 Corporate Water and Wastewater Actions Proposed for 2019</b>                         |   |
|  | Remote access to Azu water system will reduce need for travel |
|  |   |

|   |           |
|---|-----------|
| <b>Water Conservation</b>   |           |
| <b>Q 65 Does your local government have water conservation policies, plans or programs?</b> | <b>No</b> |

## 2018 CLIMATE CHANGE ADAPTATION ACTIONS

This section of the CARIP survey is designed to collect information related to the types of climate impacts local governments are experiencing and how they are being addressed.

|   |                         |
|---|-------------------------|
| <b>Q 66 Please identify the THREE climate impacts that are most relevant to your Local Government.</b>  |                         |
| <ul style="list-style-type: none"> <li>• <b>Warmer winter temperatures reducing snowpack</b></li> <li>• Changes to temperature and precipitation causing seasonal drought</li> <li>• Heatwaves impacting population health</li> <li>• <b>Increased temperatures increasing wildfire activity</b></li> <li>• Increased temperatures affecting air quality</li> <li>• Changing temperatures influencing species migration and ecosystem shifts</li> <li>• Changing temperatures influencing ecosystem shifts</li> <li>• <b>Extreme weather events contributing to urban and overland flooding</b></li> <li>• Sea level rise and storms causing coastal flooding and/or erosion</li> </ul> | <br>X<br><br>X<br><br>X |
| Other (please specify):   |                         |
| <b>Q 67 In 2018 has your local government addressed the impacts of a changing climate using any of the following?</b>   |                         |
| Risk and Vulnerability Assessments  | No                      |
| Risk Reduction Strategies   | No                      |



|  |     |
|--|-----|
| Emergency Response Planning  | Yes |
| Asset Management   | No  |
| Natural/Eco Asset Management Strategies                            | No  |
| Infrastructure Upgrades (e.g. stormwater system upgrades)          | No  |
| Beach Nourishment Projects   | No  |
| Economic Diversification Initiatives                               | No  |
| Strategic and Financial Planning                                   | No  |
| Cross-Department Working Groups                                    | No  |
| Official Community Plan Policy Changes                             | No  |
| Changes to Zoning and other Bylaws and Regulations                 | No  |
| Incentives for Property Owners (e.g. reducing storm water run-off) | No  |
| Public Education and Awareness                                     | No  |
| Research   | No  |
| Mapping  | No  |
| Partnerships   | No  |
| Other (please specify):  |     |

|   |   |
|---|---|
| <b>Q 68 Climate Change Adaptation Actions Taken in 2018</b>   |   |
| Please elaborate on key actions and/or partnerships your local government has engaged in to prepare for, and adapt to a changing climate. Add links to key documents and information where appropriate. |   |
|   | Updated the emergency response EOC handbook to deal with increased events due to climate change |
| <b>Q 69 Climate Change Adaptation Actions Proposed for 2019</b>   |   |
|   |   |
| <b>Q 70 For more information please contact</b>   |   |
|   |   |

| Q 71. The following are key resources that may be helpful to your local government in identifying climate impacts, as well as, strategies, actions and funding to deal with them. For those resources that you have used, please indicate whether they were useful in advancing your work in climate change adaptation?  |  |
|--|--|
| <a href="#">Indicators of Climate Change for British Columbia</a><br><a href="#">Plan2Adapt</a><br><a href="#">Climate Projections for Metro Vancouver</a><br><a href="#">Climate Projections for the Capital Region</a><br><a href="#">Climate Projections for the Cowichan Valley Regional District</a><br><a href="#">Province of BC's BC Adapts Video Series</a><br><a href="#">Preparing for Climate Change: Implementation Guide for Local Governments</a><br><a href="#">Public Infrastructure and Engineering Vulnerability Committee's (PIEVC)</a><br><a href="#">Sea Level Rise Adaptation Primer</a><br><a href="#">BC Regional Adaptation Collaborative Webinars</a><br><a href="#">Retooling for Climate Change</a><br><a href="#">Water Balance Model</a><br><a href="#">Water Conservation Calculator</a><br><br>Funding:<br><a href="#">National Disaster Mitigation Program (NDMP)</a><br><a href="#">Community Emergency Preparedness Fund (CEPF)</a><br><a href="#">Municipalities for Climate Innovation Program (MCIP)</a><br><a href="#">Climate Adaptation Partner Grants (FCM)</a><br><a href="#">Infrastructure Planning Grants (MAH)</a><br><a href="#">Federal Gas Tax Fund</a> | Haven't Used<br>Haven't Used<br>Haven't Used<br>Haven't Used<br>Haven't Used<br>Haven't Used<br>Useful<br>Haven't Used<br>Haven't Used<br>Haven't Used<br>Haven't Used<br>Haven't Used<br>Haven't Used<br>Haven't Used<br>Haven't Used<br>Haven't Used<br>Haven't Used<br>Haven't Used<br>Haven't Used<br>Useful<br>Useful<br>Haven't Used<br>Useful<br>Haven't Used<br>Haven't Used<br>Useful<br>Useful |
| Other (please specify)   |  |

## 2018 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.

| Other   |            |
|---|------------|
| Q 74 Are you familiar with the <a href="#">Community Lifecycle Infrastructure Costing Tool (CLIC)</a> ? | <b>Yes</b> |
| Q 75 Is your local government using the <a href="#">CLIC</a> tool?                                      | <b>No</b>  |

## 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 box below separated by a forward slash (e.g. program1/program2).

#### Adaptation

| Q 80 Adaptation Programs, Partnerships and Funding  |  |
|---|--|
| Applied for CleanBC Communities Fund - “Charge North” Advisory Committee with Community Energy Association – EV transportation and charging network / Community Works Funding |  |

## 2018 CARBON NEUTRAL REPORTING

Local governments are required to report on their progress in achieving their carbon neutral goal under the [B.C. 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 portion of the survey, please ensure that you are familiar with guidance available on the [B.C. Climate Action Toolkit website](#), especially the [Workbook](#) and [Becoming Carbon Neutral: A Guide for Local Governments in British Columbia](#).

*Please note: As a result of the BC Recycling Regulation, local governments are no longer required to account for GHG emissions from vehicles, equipment and machinery required for the collection, transportation and diversion of packaging and printed paper, in their annual Climate Action Revenue Incentive Program (CARIP) reports.*

### Reporting Emissions

|  |               |
|--|---------------|
| <b>Q 81 Did your local government measure corporate GHG emissions for 2018?</b>  | <b>Yes</b>    |
| <b>Q 82 If your local government measured 2018 corporate GHG emissions, please report the number of corporate GHG emissions from services delivered directly by your local government (in tonnes of carbon dioxide equivalent)</b> | <b>814.59</b> |

|  |                             |
|--|-----------------------------|
| Q 83 If your local government measured 2018 corporate GHG emissions, please report the number of corporate GHG emissions from contracted services (in tonnes of carbon dioxide equivalent) | 490.77                      |
| Q 84 TOTAL A: CORPORATE GHG EMISSIONS FOR 2018 (Direct GHGs + Contracted GHGs)   | 1,305.36 tCO <sub>2</sub> e |

|   |    |
|---|----|
| Carbon Neutral Reporting  |    |
| Q 99 Does your local government set aside funds in a climate reserve fund or similar? | No |

## GCC CLIMATE ACTION RECOGNITION PROGRAM

### Green Communities Committee 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 – 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 their community’s energy and emissions inventory (i.e. 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 (e.g. 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.

**Q 100 Based on your local government's 2018 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 checked="" type="checkbox"/> | Level 3 – Accelerating Progress on Charter Commitments  | <b>X</b> |
| <input type="checkbox"/>            | Level 4 - Achievement of Carbon Neutrality              |          |
| <input type="checkbox"/>            | Not Sure  |          |

**Q 101 Related to 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 and/or financial resources and is intended to result in significant GHG reductions:**

|  |
|--|
| <b>PROJECT NAME:</b>   |
| The Regional District of Fraser-Ft George has invested a significant time and Community Works funding to reduce greenhouse gas emissions since 2007. We have completed many retrofits to our community halls, fire halls and recreation centres. These have been in the form of increased insulation, LED lighting retrofits and increased efficiencies in heating. Since 2007 we have been able to reduce our direct emissions by approximately 20% and the total combined emissions by 51% |