

Climate Action Revenue Incentive Program (CARIP) Public Reporting - Climate Actions Survey 2014

BROAD PLANNING

Broad Planning refers to the high level, strategic planning that sets the stage for GHG reductions. Land use planning that focuses on Smart Growth principles (compact, complete, connected and centred) plays an especially important role in energy and GHG reduction. Plans that relate to a certain sector should be included in that sector, e.g. transportation plans in the 'Transportation' sector. In the appropriate boxes below, please record all corporate and community-wide actions taken in 2014 and proposed for 2015. Number and type of actions will vary by community. Please refer to the 'Action Examples' tab above for assistance in understanding the type of information to include in each action category. If the action was taken in partnership, please indicate with whom.

	Yes	No	Please specify or comment
Since initially establishing OCP targets, policies, and actions for the reduction of greenhouse gas (GHG) emissions, as required by the Local Government Act, has your local government updated those targets, policies and actions?	False	True	(No response)

Variable	Response
Does your local government use the Community Energy and Emissions Inventory (CEEI) to measure progress?	Yes
Has your local government established Development Permit Areas (DPAs) for climate action (i.e. energy conservation, water conservation and/or GHG emission reduction)?	No

CORPORATE - Broad Planning

	Actions taken in 2014	Actions proposed for 2015
Feasibility Studies, Research, Analysis	Complete 2013 Corporate Energy & GHG Emissions Inventory	Complete 2014 Corporate Energy & GHG Emissions Inventory
Plans, Policies, Regulations	(No response)	(No response)
Policy Implementation	(No response)	(No response)
Employee Training, Awareness	(No response)	(No response)
Committees, Staffing	(No response)	(No response)
Funding	(No response)	(No response)

COMMUNITY-WIDE - Broad Planning

	Actions taken in 2014	Actions proposed for 2015
Feasibility Studies, Research, Analysis	(No response)	Initiate Environmentally Sensitive Areas Mapping Update Study
Plans, Policies, Regulations	Complete Master Transportation Plan; Complete Parks, Recreation and Culture Master Plan	Amend OCP to reflect Master Transportation Plan, Parks, Recreation and Culture Master Plan
Policy Implementation	(No response)	(No response)
Community Education, Engagement	(No response)	(No response)
Committees, Staffing	(No response)	(No response)
Funding	(No response)	(No response)

BUILDINGS

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 viewed over the long term. In the appropriate boxes below, please record all corporate and community-wide actions taken in 2014 and proposed for 2015. Number and type of actions will vary by community. Please refer to the 'Action Examples' tab above for assistance in understanding the type of information to include in each action category. If the action was taken in partnership, please indicate with whom.

Variable	Response
Does your local government have green building/construction policies, plans or programs?	Yes

CORPORATE - Buildings

	Actions taken in 2014	Actions proposed for 2015
Physical Improvements, Construction	Commence construction of new community centre to high efficiency standards. Replace 21 x 400 w HID lights in recreation centre with 21 x 100 w ultra fluorescent including reduced running times Upgrade City Hall lighting to more efficient units.	Complete construction of new community centre to high efficiency standards. Replace City Hall parkade lights with more efficient LED lights.
Feasibility Studies, Research, Analysis	Al Anderson Memorial Pool boiler replacement proposal	Completed LED lighting business case development study
Plans, Policies, Regulations	(No response)	(No response)
Policy Implementation	(No response)	(No response)
Employee Training, Awareness	(No response)	(No response)
Committees, Staffing	(No response)	(No response)
Funding	(No response)	(No response)

COMMUNITY-WIDE - Buildings

	Actions taken in 2014	Actions proposed for 2015
Physical Improvements, Construction	(No response)	(No response)
Feasibility Studies, Research, Analysis	(No response)	(No response)
Plans, Policies, Regulations	(No response)	(No response)
Policy Implementation	Implement new BCBC Energy Efficiency Codes	(No response)
Community Education, Engagement	(No response)	(No response)
Committees, Staffing	(No response)	(No response)
Funding	(No response)	(No response)

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. In the appropriate boxes below, please record all corporate and community-wide actions taken in 2014 and proposed for 2015. Number and type of actions will vary by community. Please refer to the 'Action Examples' tab above for assistance in understanding the type of information to include in each action category. If the action was taken in partnership, please indicate with whom.

Variable	Response
Has your local government undertaken district energy projects in 2014?	No
Has your local government undertaken renewable energy projects 2014?	No
Are you aware of the integrated resource recovery (IRR) guidance page on the BC Climate Action Toolkit? (http://www.toolkit.bc.ca/tool/integrated-resource-recovery-irr)	Yes

CORPORATE - Energy Generation

	Actions taken in 2014	Actions proposed for 2015
Physical Improvements, Construction	(No response)	(No response)
Feasibility Studies, Research, Analysis	(No response)	(No response)
Plans, Policies, Regulations	(No response)	(No response)
Policy Implementation	(No response)	(No response)
Employee Training, Awareness	(No response)	(No response)
Committees, Staffing	(No response)	(No response)
Funding	(No response)	(No response)

COMMUNITY-WIDE - Energy Generation

	Actions taken in 2014	Actions proposed for 2015
Physical Improvements, Construction	(No response)	(No response)
Feasibility Studies, Research, Analysis	(No response)	(No response)
Plans, Policies, Regulations	(No response)	(No response)
Policy Implementation	(No response)	(No response)
Community Education, Engagement	(No response)	(No response)
Committees, Staffing	(No response)	(No response)
Funding	(No response)	(No response)

GREENSPACE

Greenspace refers to parks and greenways, boulevards, community forests, urban agriculture, riparian areas, gardens, recreation/school sites, and other green spaces, such as remediated brownfield/contaminated sites. Greenspaces support climate change mitigation (reducing emissions by absorbing and sequestering GHG) and adaptation (providing shade, cooling, deflecting strong wind, and improving air quality). In the appropriate boxes below, please record all community-wide actions taken in 2014 and proposed for 2015 (Note: the 'Greenspace' sector only has a community-wide actions section). Number and type of actions will vary by community. Please refer to the 'Action Examples' tab above for assistance in understanding the type of information to include in each action category. If the action was taken in partnership, please indicate with whom.

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

COMMUNITY-WIDE - Greenspace

	Actions taken in 2014	Actions proposed for 2015
Physical Improvements, Construction	Construct and landscape Langley Prairie Neighbourhood Park; Plant 21 trees in parks and boulevards.	Construct Linwood Park community garden
Feasibility Studies, Research, Analysis	(No response)	(No response)
Plans, Policies, Regulations	Completed Parks, Recreation and Culture Master Plan	Complete Buckley/Penzer Park planning; Commence City Park planning
Policy Implementation	(No response)	(No response)
Community Education, Engagement	Host community garden and dog off-leash park open house	(No response)
Committees, Staffing	(No response)	(No response)
Funding	(No response)	(No response)

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. In the appropriate boxes below, please record all corporate and community-wide actions taken in 2014 and proposed for 2015. Number and type of actions will vary by community. Please refer to the 'Action Examples' tab above for assistance in understanding the type of information to include in each action category. If the action was taken in partnership, please indicate with whom.

Variable	Response
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?	Yes

CORPORATE - Solid Waste

	Actions taken in 2014	Actions proposed for 2015
Physical Improvements, Construction	(No response)	(No response)
Feasibility Studies, Research, Analysis	(No response)	(No response)
Plans, Policies, Regulations	(No response)	(No response)
Policy Implementation	(No response)	Implement organic waste diversion in all City buildings
Employee Training, Awareness	(No response)	(No response)
Committees, Staffing	(No response)	(No response)
Funding	(No response)	(No response)

COMMUNITY-WIDE - Solid Waste

	Actions taken in 2014	Actions proposed for 2015
Physical Improvements, Construction	(No response)	(No response)
Feasibility Studies, Research, Analysis	(No response)	(No response)
Plans, Policies, Regulations	(No response)	(No response)
Policy Implementation	(No response)	(No response)
Community Education, Engagement	Organic waste ban education initiatives	Host household hazardous waste collection event
Committees, Staffing	(No response)	(No response)
Funding	(No response)	(No response)

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. In the appropriate boxes below, please record all corporate and community-wide actions taken in 2014 and proposed for 2015. Number and type of actions will vary by community. Please refer to the 'Action Examples' tab above for assistance in understanding the type of information to include in each action category. If the action was taken in partnership, please indicate with whom.

Variable	Response
Does your local government have policies, plans or programs to support alternative modes and technologies of transportation (e.g. walking, cycling, transit, electric vehicles)	Yes
Does your local government have a transportation demand management (TDM) strategy? (http://www.toolkit.bc.ca/resource/transportation-demand-management-small-and-mid-sized-communities-toolkit)	No
Does your local government have policies, plans or programs to support local food production (thus reducing transportation emissions)?	Yes

CORPORATE - Transportation

	Actions taken in 2014	Actions proposed for 2015
Physical Improvements, Construction	(No response)	Incorporate change facilities for staff in new community centre/City Hall renovation in support of cycling
Feasibility Studies, Research, Analysis	(No response)	(No response)
Plans, Policies, Regulations	(No response)	(No response)
Policy Implementation	(No response)	(No response)
Employee Training, Awareness	(No response)	(No response)
Committees, Staffing	(No response)	(No response)
Funding	(No response)	(No response)

COMMUNITY-WIDE - Transportation

Actions taken in 2014

Actions proposed for
2015

Physical Improvements, Construction	Reconstruct portion of 48 Avenue from Grade Crescent to 208 Street adding sidewalks and bike lanes; Extend sidewalk on 201 Street	Construct sidewalk and other improvements to pedestrian facilities
Feasibility Studies, Research, Analysis	(No response)	(No response)
Plans, Policies, Regulations	Complete Master Transportation Plan	Initiate 203 Street bicycle route planning
Policy Implementation	(No response)	(No response)
Community Education, Engagement	(No response)	(No response)
Committees, Staffing	(No response)	(No response)
Funding	(No response)	(No response)

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. In the appropriate boxes below, please record all corporate and community-wide actions taken in 2014 and proposed for 2015. Number and type of actions will vary by community. Please refer to the 'Action Examples' tab above for assistance in understanding the type of information to include in each action category. If the action was taken in partnership, please indicate with whom.

Variable	Response
Does your local government have water conservation policies, plans or programs?	Yes

CORPORATE - Water and Wastewater

	Actions taken in 2014	Actions proposed for 2015
Physical Improvements, Construction	(No response)	(No response)
Feasibility Studies, Research, Analysis	(No response)	(No response)
Plans, Policies, Regulations	(No response)	(No response)
Policy Implementation	(No response)	(No response)
Employee Training, Awareness	(No response)	(No response)
Committees, Staffing	(No response)	(No response)
Funding	(No response)	(No response)

COMMUNITY-WIDE - Water and Wastewater

	Actions taken in 2014	Actions proposed for 2015
Physical Improvements, Construction	Replace aging water meters with newer, more accurate units	Replace aging water meters with newer, more accurate units
Feasibility Studies, Research, Analysis	(No response)	Complete leachate pump station replacement study
Plans, Policies, Regulations	(No response)	Initiate Integrated Stormwater Management Plan
Policy Implementation	(No response)	(No response)
Community Education, Engagement	(No response)	(No response)
Committees, Staffing	(No response)	(No response)
Funding	(No response)	(No response)

OTHER CLIMATE ACTIONS

This section is intended to give local governments a chance to record other climate actions that could not be captured in the above sectors, including climate change adaptation actions and air quality actions. In the appropriate boxes below, please record all corporate and community-wide actions taken in 2014 and proposed for 2015. Number and type of actions will vary by community. Please refer to the 'Action Examples' tab above for assistance in understanding the type of information to include in each action category. If the action was taken in partnership, please indicate with whom.

Variable	Response
Has your local government begun to integrate the impacts of a changing climate (adaptation) into its planning and operations?	Yes
Are you aware of the climate change adaptation guidance page on the BC Climate Action Toolkit? (http://www.toolkit.bc.ca/adaptation-challenges-and-opportunities)	Yes

CORPORATE - Other Climate Action

	Actions taken in 2014	Actions proposed for 2015
Physical Improvements, Construction	Replace Fraser Highway streetlights with more efficient units - approximate energy savings = 23,000 kWh	Replace streetlights with more efficient units
Feasibility Studies, Research, Analysis	(No response)	(No response)
Plans, Policies, Regulations	(No response)	(No response)
Policy Implementation	(No response)	(No response)
Employee Training, Awareness	(No response)	(No response)
Committees, Staffing	(No response)	(No response)
Funding	(No response)	(No response)

COMMUNITY-WIDE - Other Climate Action

	Actions taken in 2014	Actions proposed for 2015
Physical Improvements, Construction	(No response)	(No response)
Feasibility Studies, Research, Analysis	(No response)	(No response)
Plans, Policies, Regulations	(No response)	(No response)
Policy Implementation	(No response)	(No response)
Community Education, Engagement	(No response)	(No response)
Committees, Staffing	(No response)	(No response)
Funding	(No response)	(No response)

INNOVATION

This section is intended to give your local government an opportunity to describe any energy and GHG emission reduction activities that have been undertaken over the past year(s) that your local government is particularly proud of and would like to share with other local governments.

CORPORATE - Innovation

Please describe any innovative corporate actions taken in 2014 and add links to additional information where possible.

(No response)

COMMUNITY-WIDE - Innovation

Please describe any innovative community-wide actions taken in 2014 and add links to additional information where possible.

(No response)

LOCAL GOVERNMENT INFORMATION

Variable	Response
LOCAL GOVERNMENT INFORMATION Name of Local Government	Langley, City of
LOCAL GOVERNMENT INFORMATION Name of member Regional District (RD)	Greater Vancouver (Metro)
LOCAL GOVERNMENT INFORMATION Regional Growth Strategy (RGS) in your region	Yes
LOCAL GOVERNMENT INFORMATION Population	10,000-49,999

Submitted by:

Variable	Response
Submitted by: Name	Roy M. Beddow, MCIP, RPP
Submitted by: Position	Deputy Director of Development Services
Submitted by: Email	rbeddow@langleycity.ca
Submitted by: Telephone # (ten digit)	604-514-2817

Climate Action Revenue Incentive Program (CARIP) Public Reporting - Carbon Neutral Progress Survey 2014

MEASURING CORPORATE GHG EMISSIONS

Q1. Did you measure your local government's corporate GHG emissions in 2014?

Many local governments use SMARTTool, a web-based inventory and reporting tool, to track and measure their corporate GHG emissions. If your local government has chosen to use another inventory tool, please make sure that you are using the same methodologies and emission factors as SMARTTool. The most recent edition of the B.C. Best Practices Methodology for Quantifying Greenhouse Gas Emissions provides this information and is available on the BC Climate Action Toolkit. If you would like to know more about using SMARTTool to measure GHG emissions, please contact Jennifer Hill at Jennifer.Hill@gov.bc.ca or 250-387-0089. Survey Navigation Tip: If you are not yet measuring your local government's GHG emissions, a 'no' answer to this question will bring you directly to the 'Making Progress Towards Carbon Neutrality' page of the survey when you click 'Next'.

Yes

REPORTING CORPORATE GHG EMISSIONS AND REDUCTIONS

A local government's Total Corporate GHG Emissions include direct and contracted GHG emissions that result from the delivery of "traditional services". Traditional services - services that are commonly provided by a majority of local governments and include: administration and governance; drinking, storm and waste water; solid waste collection, transportation and diversion; roads and traffic operations; arts, recreation and cultural services; and fire protection. Direct GHG emissions - emissions that are generated by the delivery of a traditional service by local government staff or a subsidiary organization. Contracted GHG emissions - emissions that are generated by the delivery of traditional services by contractors on behalf of local governments. For more information, see *Becoming Carbon Neutral: A Guide for Local Governments in British Columbia* and *The Workbook: Helping Local Governments Understand How to be Carbon Neutral in their Corporate Operations*.

Q2. What were your local government's 2014 corporate GHG emissions from services delivered directly by your local government?

(in tonnes of carbon dioxide-equivalent, tCO₂e)

664

Q3. What were your local government's 2014 corporate GHG emissions from contracted services?

(in tonnes of carbon dioxide-equivalent, tCO₂e)

192

Total Corporate GHG Emissions for 2014 = 856.0 tCO₂e

Reporting Reductions and Offsets

To be carbon neutral, a local government must:balance their TOTAL corporate GHG emissions by undertaking Option 1 (GCC-supported) or Option 2 (alternative) community GHG emissions reduction projects that meet project eligibility requirements; and/or;purchase carbon offsets from a credible offset provider.

Q4. If applicable, please report the 2014 GHG emissions reductions being claimed from Option 1 GHG Reduction Projects.

Energy Efficient Building Retrofits

(No response)

Solar Thermal

(No response)

Household Organic Waste Composting

361

Low Emission Vehicles

(No response)

Avoided Forest Conversion

(No response)

Reductions from Option 1 Projects = 361.0 tCO₂e

Q5. If applicable, please list the names of and report the 2014 GHG emissions reductions being claimed from Option 2 GHG Reduction Projects.

Option 2 Project Name	GHG Emissions Reduced
VLG Gas Capture Optimization	419
(No response)	(No response)
(No response)	(No response)

Reductions from Option 2 Projects = 419.0 tCO₂e

Q6. If applicable, please report the number of offsets you purchased from an offset provider for the 2014 reporting year.

NOTE: Please do not include any climate action reserve funds in your response. Some local governments have put funds that they would otherwise use to purchase offsets into climate action reserve funds. A climate action reserve fund is a way of setting aside funding for emission reduction projects, and worth publicly reporting, but does not get a local government to carbon neutrality under the GCC's Carbon Neutral Framework.(in tonnes of carbon dioxide-equivalent)

(No response)

Q7. If you have purchased offsets, please identify the name of your offset provider.

(No response)

Total Reductions from Projects and Offsets for 2014 = 780.0

Corporate GHG Emissions Balance

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 2014 = 76.0

If your Corporate GHG Emissions Balance is negative or zero, your local government is carbon neutral. Congratulations!

MAKING PROGRESS TOWARDS CARBON NEUTRALITY

Even if your local government did not measure corporate GHG emissions or achieve carbon neutrality for the 2014 reporting year, by identifying and committing to taking actions next year to bring you closer to carbon neutrality, your local government is meeting the spirit of the Climate Action Charter.

Q8. If you did not achieve carbon neutrality in 2014, did you undertake any of the following commonly reported corporate GHG reduction activities?

- **Undertook civic building energy efficient retrofits**
- **Set aside funds in a climate action reserve fund**

Q9. If you did not achieve carbon neutrality in 2014, please identify up to three key actions for 2015 that will help you make progress towards becoming carbon neutral.

Variable	Response
[Actions_2015.0] Q9. If you did not achieve carbon neutrality in 2014, please identify up to three key actions for 2015 that will help you make progress towards becoming carbon neutral.	Replace City Hall parkade lights with more efficient LED lights
[Actions_2015.1] Q9. If you did not achieve carbon neutrality in 2014, please identify up to three key actions for 2015 that will help you make progress towards becoming carbon neutral.	Complete LED streetlight business case development study
[Actions_2015.2] Q9. If you did not achieve carbon neutrality in 2014, please identify up to three key actions for 2015 that will help you make progress towards becoming carbon neutral.	Add change facilities for staff in Community Centre/City Hall renovations (support cycling to work)

Q10. Are you familiar with the Community Energy and Emissions Inventory (CEEI)?

Familiarity with your community's CEEI helps qualify you for Level 2 of the GCC Recognition Program. For more information about CEEI, please see: <http://www.toolkit.bc.ca/community-energy-and-emissions-inventory-initiative>

Yes

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 (L1): for local governments who demonstrate progress on fulfilling one or more of their Charter commitments Level 2 - Measurement (L2): 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 (L3): for local governments who achieve carbon neutrality in the reporting year

Q11. Based on your local government's 2014 CARIP Public Report, please check the GCC Climate Action Recognition Program level that best applies:

Level 2 - Measurement

LOCAL GOVERNMENT INFORMATION

Variable	Response
LOCAL GOVERNMENT INFORMATION Name of Local Government	Langley, City of
LOCAL GOVERNMENT INFORMATION Name of member Regional District (RD)	Greater Vancouver (Metro)
LOCAL GOVERNMENT INFORMATION Regional Growth Strategy (RGS) in your region	Yes
LOCAL GOVERNMENT INFORMATION Population	10,000-49,999

Submitted by:

Variable

Response

Submitted by: | Name

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