

CLIMATE ACTION REVENUE INCENTIVE PROGRAM (CARIP) PUBLIC REPORT

For Reporting Year =

2012

GENERAL INFORMATION

Fill in the boxes below

Name of Local Government

City of Victoria

Member of Regional District (RD)

Capital Regional District

Regional Growth Strategy (RGS) in region

Yes

Population

82,000

Report Submitted by

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CLIMATE ACTION REVENUE INCENTIVE PROGRAM (CARIP) PUBLIC REPORT

For Reporting Year = 2012

Community-Wide Actions

1.1 MEASURE

Community Wide Measurement Actions

QUESTION

Have you been using the *Community Energy and Emissions Inventory* (CEEI) to measure progress? What else have you been using instead of/in addition to CEEI?

ANSWER

Yes

ADDITIONAL INFORMATION

The City modeled energy, ghg emissions, and cost for Baseline, BAU and 16 different GHG reduction strategies to ascertain the impact of different GHG reduction strategies and develop a specific and prioritized set of strategies for Victoria. An web application, Climate Action Navigator, was developed to display the methodology and results of this modeling. This online, interactive tool was used in facilitated workshops with stakeholders allowing them to discover the impact of different strategies, choose to employ different ghg reduction strategies, and adjust the level of effort/aggressiveness of pursuing these ghg reduction strategies.

1.2 PLAN

Community Wide Targets QUESTION	ANSWER	ADDITIONAL INFORMATION
Do your OCP(s) have targets, policies and actions to reduce GHG emissions, as per the requirements under the <i>Local Governments Act</i> (LGA)? If yes, please identify the targets set. If no or in progress, please comment.	Yes	<i>The City's OCP, adopted July 31, 2012, includes an overall GHG reduction target of 33% by 2020 based on 2007 levels. The City's Community Energy and Emissions Plan (CEEP) was prepared from detailed energy, emissions and cost modeling and analysis in a facilitated environment with stakeholders using the Climate Action Navigator. The City's CEEP includes a low and high range target for each ghg reduction strategy selected, and for each sector of the community's ghg emissions profile (buildings, transportation, waste).</i>
If you are a Regional District, does your RGS have targets, policies and actions to reduce GHG emissions, as per the requirements under the <i>Local Governments Act</i> (LGA)? If yes, please identify the targets set. If no or in progress, please comment.		N/A

1.3 REDUCE

Supportive Community-Wide Actions

Please describe the supportive community-wide actions you have taken in 2012 (or propose to take in 2013) to contribute to reducing GHG emissions and energy consumption in your community.

Supportive actions refer to activities that provide a framework or foundation for direct actions to be implemented. These include the development of committees or new staff positions, education and engagement, feasibility studies, policy development and engagement with programs and partnerships.

If your actions do not fit into the given categories please describe them under "other actions".

Actions reported in these categories in 2010 and 2011 can be found here: <http://www.cscd.gov.bc.ca/lgd/greencommunities/carip.htm>

Supportive Community-Wide Actions Actions Taken in 2012

Proposed Actions for 2013



Broad Planning (e.g. creation/revision of OCPs, CEPs, transportation plans)

Victoria's new Official Community Plan (OCP) was adopted by City Council in July 2012. This 30 yr plan was developed through consultation with more than 6,000 local residents and businesses over 2 years. The OCP contains a climate and energy section/focus area and integrates climate change throughout other policies in the sections of land management, transportation, infrastructure, housing, environment, food systems. The City's growth management plan is based on compact, connected land use pattern and supports walking/cycling/transit and district/renewable energy, and enables higher density and more energy efficient building forms. The Official Community Plan includes an overall ghg reduction target of 33% by 2020 based on 2007 levels and directs the City to develop a Climate and Energy Resiliency Plan, an integrated mitigation and adaptation plan. The OCP also contains other supporting targets such as: minimum of 60% of all trips are by walking, cycling or transit by 2041; minimum of 40% of all dwelling units are within 400m of the Urban Core, a Town Centre or Urban Village by 2041; and, all residents can reach daily needs within a 15 minute walk of home.

Victoria completed its Community Energy and Emissions Plan (CEEP) in May 2012. The CEEP is a detailed, technical document establishing targets, strategies and actions for energy and ghg reductions (mitigation) in all sectors. The CEEP reports projected GHG impact as measured by ghg reduction strategy area, by timelines to 2020, 2041, 2080, by cost and cost/tCO₂e, under both a high a low (level of effort) scenarios. GHG reduction strategies included in the CEEP are prioritized base on quantitative factors (e.g. cost/tonne reduced), and qualitative factors (synergies/trade-offs, ease of implementation, etc.). Finally, strategies and actions are also categorized by municipal sphere of influence to indicate where the City of Victoria has direct control

Staff will complete Victoria's Climate Change Adaptation Plan, and present to Council the results of Milestone 3 of the ICLEI E17Climate Change Adaptation Planning Framework.

Staff will complete and bring forward for City Council adoption, the OCP's Implementation Plan, outlining the short (5 yr), medium (10yr) and long term (30yr) actions for implementing the policy directions contained in the OCP.

Staff will bring forward for City Council adoption, the Community Climate and Energy Resiliency Plan, a 5 year integrated mitigation and adaptation action plan. This plan will draw on the findings of the detailed technical documents developed for each of mitigation and adaptation planning, to present in a condensed form, the prioritized actions for the next 5, 10 and 30 yr periods. The document's emphasis will be on the short term (5 year) actions and will include strategies and actions along the entire spectrum of City influence (direct control, influence, encourage).

City will contribute as key stakeholder to the CRD's Regional Sustainability Strategy in 2013.

Building and Lighting (e.g. developed green building policy, increased density in the downtown)

Private sector green building policy was adopted by Council in 2011 and was in place throughout 2012. Rezoning and DPA packages are required to complete a sustainability checklist as part of the staff review process.

Extensive energy, ghg and cost modeling was performed in 2012, using the Climate Action Navigator, to measure the impact of various strategies for specific building types. The impact of different extents/efforts of each strategy were also measured. For example, the impact of building energy retrofits for commercial buildings was measured at different levels of uptake/retrofit rates, different extents of retrofits (insulation levels, mechanical system types, etc.).

Buildings comprise 51% of community emissions, and Victoria has a very low growth rate of just 1.5%/yr. In order to achieve Victoria's ghg reduction target, it is important to explore options by which the City can educate and engage building owners and occupants to adopt improved energy conservation behaviours and perform energy upgrades to existing buildings. Therefore, in 2013, the City is:

- 1) designing and developing a policy and program for Point of Renovation Energy Audits in 2013. This will include conducting research and preparing a feasibility study, including, assessing the legal and regulatory issues, capacity implications, and economic impact of a voluntary or mandatory Point of Renovation Energy Audit Policy applicable to some or all building permit applications. The feasibility study will determine the appropriateness and scope of the Policy which will inform its program design.*
- 2) reviewing its heritage incentive program in 2013. Among other aspects of the review, staff will be reviewing the tax exemption program to ascertain whether additional incentives or requirements can be included for energy retrofits at the time of heritage conversion or seismic upgrade.*
- 3) Adaptation re buildings - Coastal Sea-level Rise Risk Assessment and Mapping. In partnership with CRD, Saanich, and MOE. To begin Feb 2013 and be completed in March 2015. Development of Coastal Sea-level Rise Model Bylaw. In partnership with CRD, Saanich, and MOE. To be completed Dec 2014*

The Community Climate and Energy Resiliency Plan to be completed in 2013 will present in a condensed form, the prioritized mitigation and adaptation actions for the next 5, 10 and 30 yr periods. This plan will include strategies and actions in each sector of buildings, transportation and waste, and along the entire spectrum of the City's influence (direct control, influence, encourage). The document's emphasis will be on the short term (5 year) actions.

Energy Generation (e.g. signed on to provincial 'solar ready' regulation, explored options for bioheating for buildings)

** The City has performed a citywide scan of district energy opportunities, including on-site opportunities for horizontal geothermal and solar on City or Province owned buildings in Victoria. A citywide scan of heat recovery opportunities (wastewater and waste to energy) has also been undertaken.*

** The City has a green energy revitalization tax exemption bylaw in place to encourage renewable energy use in buildings.*

** The City of Victoria is not a signatory to the optional "solar ready" regulation.*

** There are no renewable or district energy studies/policy developments scheduled/budgeted for 2013. The City supports and encourages renewable and district energy in the private sector, consistent with the policy directions contained in the OCP.*

** Community Climate and Energy Resiliency Plan to be completed in 2013 will present in a condensed form, the prioritized mitigation and adaptation actions for the next 5, 10 and 30 yr periods. This plan will include strategies and actions in each sector of buildings, transportation and waste, and along the entire spectrum of the City's influence (direct control, influence, encourage). The document's emphasis will be on the short term (5 year) actions.*

Green Space (e.g. developed urban forestry policy, adopted park acquisition policy)

Draft Urban Forest Master Plan completed. OCP adopted in July 2012 includes a section on Natural Environment providing policy directions or park acquisition, expansion and enhancement of open spaces, etc.

- * The City's Urban Forest Master Plan is adopted by Council in early 2013.
- * City Parks Master Plan to commence in 2013.
- * Community Garden Policy review and boulevard policy review in 2013.

Transportation (e.g. developed sustainable transportation plan, completed bicycle master plan)

Extensive energy, ghg and cost modeling was performed in 2012, using the Climate Action Navigator, to measure the impact of various strategies for transportation/alternative transportation strategies (Transit improvements, TDM, bike share). The impact of different extents/efforts of each strategy were also measured, i.e. mode split %s achievable.

- * Update to City's bicycle master plan and bicycle parking strategy implementation is scheduled for 2013.
- * Update to City's Parking Strategy to be completed in 2013.
- * Community Climate and Energy Resiliency Plan to be completed in 2013 will present in a condensed form, the prioritized mitigation and adaptation actions for the next 5, 10 and 30 yr periods. This plan will include strategies and actions in each sector of buildings, transportation and waste, and along the entire spectrum of the City's influence (direct control, influence, encourage). The document's emphasis will be on the short term (5 year) actions.
- * CRD Transportation Master plan scheduled for 2013 to which City is significant contributor/stakeholder.
- * City liaison to Regional Transit Plan with BC Transit in 2013 and BC Transit Master Plan and Rapid Transit Study consultation.

CRD pedestrian and master plan is completed.

Waste (e.g. introduced composting and recycling education programs)

Extensive energy, ghg and cost modeling was performed in 2012, using the Climate Action Navigator, to measure the impact of various strategies for was reduction/diversion strategies. The impact of different extents/efforts of each strategy was also measured.

- * The ghg impact of the residential kitchen scrap collection program will be measured and reported as a carbon reduction balancing project beginning in 2013 (est'd at 1200 tonnes of ghg reduced in the community as result of City's residential kitchen scraps collection program).
- * Community Climate and Energy Resiliency Plan to be completed in 2013 will present in a condensed form, the prioritized mitigation and adaptation actions for the next 5, 10 and 30 yr periods. This plan will include strategies and actions in each sector of buildings, transportation and waste, and along the entire spectrum of the City's influence (direct control, influence, encourage). The document's emphasis will be on the short term (5 year) actions.
- * CRD ban on organics begin in 2014.
- * City is liaison to CRD Solid Waste management plan in 2013.

City Council approved a new waste collection program/policy to include kitchen scraps collection beginning in Feb 2013.

Water/Sewer (e.g. participated in water smart initiatives, implemented Water Action Plan, introduced rebates on low flush toilets)

** Water conservation (potable) is primarily handled by the CRD, the purveyor of water to the region.
* Council adoption in 2012 of Stormwater utility methodology and rate structure will provide long term financial sustainability to the Utility to maintain and upgrade assets; and new rate regime will transfer obligation from property taxes to those most burdening the stormwater system (based on calculation of size if impervious/nonporous area).
* Climate change adaptation plan under development assessed risk and vulnerability of City and Community infrastructure (above and below ground)*

- * Development of stormwater utility rebates and discounts to be developed in 2013 to incentivize property owners/occupants to implement source controls and to reduce imperviousness to better manage and treat stormwater on site.
- * Utilities master plans (water/sewer/storm), incorporating climate change (scenarios for local climate change were modelled in plan development), to be adopted in 2013.
- * Develop MMCD Design Guidelines
- * City is liaison to CRD Sewage Treatment Plan in 2013.
- * Prepare annual infrastructure report

Other Actions**Direct Community-Wide Actions**

Please describe the **direct community-wide actions** you have taken this year and propose to take next year to contribute to reducing GHG emissions and energy consumption in your community.

Direct actions refer to activities that can be directly implemented by local government.

If your actions do not fit into the given categories please describe them under "other actions".

Actions reported in these categories in 2010 and 2011 can be found here: <http://www.cscd.gov.bc.ca/lgd/greencommunities/carip.htm>

Community-Wide Direct Actions	Actions Taken in 2012	Proposed Actions for 2013
Buildings (e.g. implement use of sustainability checklists and development permit guidelines for new buildings)	<ul style="list-style-type: none"> * MURBS pilot - Tap by Tap energy and water savings project in Victoria with Fortis, Citygreen partners). * City partnered with other levels of govt and non-profits for the delivery of the following programs: * Time of sale home energy labelling with VREB, BC Hydro, CRD * Climate Smart training for local businesses with CRD and Saanich 	* MURBS - Tap by Tap energy and water savings project (March 1 launch) retrofit 3000 MURB units in CRD (CRD, Hydro, Fortis, Citygreen partners).
Energy Generation (e.g. implement district energy, geothermal, solar)	No direct actions taken by the City for 2013 for renewable or district energy.	No direct actions scheduled for 2013 for renewable or district energy. The City will support and encourage those in the private sector, utility companies, and other levels of govt taking direct action to advance energy generation
Transportation (e.g. implement bike lanes, pedestrian paths, upgrade transit service and infrastructure, improve roads, parking fees etc.)	Bike lanes and greenways continue to be expanded and improved subject to the bicycle and greenways master plans and capital budget constraints.	Bike lanes and greenways continue to be expanded and improved subject to the bicycle and greenways master plans and capital budget constraints.
Waste (e.g. introduce composting and recycling programs)	City Council approved a new waste collection program/policy to include kitchen scraps collection beginning in Feb 2013.	New kitchen scraps collection for residential households begins Feb 1 2013. Project 1/3rd waste diversion from landfill on City-collected garbage.
Water/Sewer (e.g. implement water conservation and reduction initiatives)	<p>The City continues with its steel water main replacement project and trenchless technologies for relining storm and sewer pipes to reduce infiltration.</p> <p>Water metre replacement program, for improved accuracy in water use measurement, began in 2012 and will continue for 5+ yrs.</p>	<p>The City continues with its steel water main replacement project and trenchless technologies for relining storm and sewer pipes to reduce infiltration.</p> <p>Water metre replacement program, for improved accuracy in water use measurement, began in 2012 and will continue for 5+ yrs.</p>

Green Space (e.g. plant trees, conserve forest etc.)

The City continues to plant/replace trees, restore natural areas, and enhance ecosystem health. A significant raingardens at Fisherman's Wharf was installed in 2012, an example of the City's move towards green infrastructure to manage stormwater/rainfall.

- * Phase 1 construction of harbour pathway project
- * Development of David Foster Way concepts for harbour path
- * Continuing implementation of City Greenways Plan
- * An urban tree inventory to be initiated in 2013 with the use of LiDAR and GPS technology.

Other Actions

A primary focus for 2013 projects is to activate the community (households and businesses) through the following Education and Engagement Actions:

1. Ready Set Solve Challenge - City is working with Royal Roads students to develop a climate action summer camp program to be delivered through Rec Centre programming. Student team to design and develop with assistance/guidance from sustainability/recreation. FOCUS - Community mitigation and some adaptation
2. Climate Change Showdown - Delivery of Climate Action education through

1.4 COMMUNITY-WIDE

Is there any activity that you have been engaged in over the past year(s) that you are particularly proud of and would like to share with other local governments? Please describe and add links to additional information where possible.

Answer

Yes. The City has developed the Climate Action Navigator Tool, an interactive webtool comparing the cost and effectiveness of various ghg reduction strategies. This tool allows users to amend certain energy and ghg modelling assumptions and discover (in real-time) the impacts these changes have to the success of different strategies. The CAN tool was used in a facilitated workshop with climate and energy leaders and local industry professionals (buildings, transportation, waste, district energy) in March 2012 as a participatory decision-making tool for developing a prioritized set of energy and ghg reduction strategies for victoria. This tool may also be used as an education and engagement tool for communicating with the general public on the climate change challenge Victoria is facing, and the recommended pathway for climate action. Visit the CAN tool at www.climateactionnavigator.ca

NOTE: If you wish to insert a "hard return" (i.e. Enter Key) while typing in a given cell, you need to hold the ALT+ENTER instead.

NOTE: If your list proves larger than the space provided above, feel free to adjust the column width/row height accordingly.

NOTE: To adjust cells go to the far left (numbers) or top (letters)



CLIMATE ACTION REVENUE INCENTIVE PROGRAM (CARIP) PUBLIC REPORT

For Reporting Year = **2012**

Corporate Actions

2.1 MEASURE

Corporate Measurement

Actions

QUESTION

What steps has your local government taken toward completing its corporate emissions inventory (e.g. corporate assets identified related to energy and fuel data and calculated GHG emissions from energy use)?

Answer

Corporate energy use and ghg emissions are compiled and analyzed annually for buildings, streetlights/parkades, and fleet using the methodology in the Province's carbon neutral guidance for local governments.

As of this interim reporting date (March 8, 2013), the 2012 corporate emissions inventory is not yet complete. 2011 inventories were previously submitted to the Province. The 2012 corporate ghg inventory will be submitted with the Final CARIP public report prior to June 1, 2013.

What tool are you using to measure, track and report on your corporate emissions (e.g. SMARTtool, other tools including excel spreadsheets)?

SMARTTool

2.2 REDUCE

Supportive Corporate Actions

Please describe the **supportive corporate actions** you have taken in 2012 or propose to take in 2013 to contribute to reducing GHG emissions and energy consumption within your corporate boundary.

Supportive actions refer to activities that provide a framework or foundation for direct actions to be implemented. These include the development of committees or new staff positions, education and engagement, feasibility studies, policy development and engagement with programs and partnerships.

If your actions do not fit into the categories provided, please describe them under "other actions".

Lists of actions reported in these categories in 2010 and 2011 can be found here: <http://www.cscd.gov.bc.ca/lgd/greencommunities/carip.htm>

Supportive Corporate Actions	Actions Taken in 2012	Proposed Actions for 2013
Broad Planning (e.g. developed corporate climate action plan)	<ul style="list-style-type: none"> * The City did not have a corporate energy manager in 2012 and thus was resource constrained for broad energy policy planning, instead focusing more on specific reduction projects and energy studies/continuous optimization projects for major City buildings. * The City's Climate and Energy Committee met monthly throughout 2012 to strategize reduction strategies across the four focus areas of buildings, fleet, streetlights/parkades, and waste. * The City launched the Cut the Carbon Campaign in 2012 to educate and build awareness for the City's energy profile, climate action goals/commitments, and the four focus areas for reduction. This campaign will see broader use in 2013 internally and will branch into the community in 2013 beginning with delivery of the new garbage/compost cans for kitchen scraps collection program. * There was no dedicated corporate energy manager in 2012. 	<ul style="list-style-type: none"> * The City's Carbon Neutral Plan has been delayed due to resource constraints, but continues to be developed and is scheduled for adoption in 2013. * The City has not budgeted for a corporate energy manager in 2013. * The City's Cut the Carbon Campaign will continue to focus on education/training and awareness raising throughout the orgn in 2013, including reporting regularly on successful energy and ghg reduction initiatives. * The new kitchen scraps collection program began Feb 1, 2013 and will be a carbon reduction balancing project for 2013 estimated at 1,200 tonnes. * The City is investigating a number of other carbon reduction projects for approval under Option 1 and 2 of the Province's guidance for balancing carbon emissions in future years. As part of the carbon neutral plan's development, the City is developing recommendations and will be drafting a policy to direct the City's decisions related to the investment in local carbon reduction projects and/or carbon offsets. The City is working closely with the CRD and the Province to meet its commitments for "making progress" under the Climate Action Charter.

2012 Interim CARIP Public Report City of Victoria - Corporate/Municipal Actions

Building and Lighting (e.g. developed energy reduction plan for all corporate buildings)

* The City employs Pulse Energy monitoring at 4 of its largest buildings. Using the data produced by Pulse, 2 Continuous Optimization Investigation Reports were completed in 2012 (City Hall and Police Dept HQ) with recommendations budgeted for 2013 cap/operg spend.

* An energy study of the Victoria Conference Centre was completed in 2012, with recommendations being budgeted for 2013 cap/operg spend.

* Building energy performance and envelope assessments were performed for the City's 8 community centres and Royal Athletic Park. Maintenance/weatherization upgrades are being implemented immediately with more significant lighting and equipment upgrades being analyzed in capital program budgets for implementation/timing.

* Using the data produced by Pulse Metering, 2 Continuous Optimization projects are underway for Crystal Pool and Public Works buildings. The investigation reports are scheduled for completion March 31, 2013 and recommendations will be allocated to budgets for 2014/2015.

* City representatives are working with other munis and BC Hydro to develop viable joint buying opportunities for LED streetlights.

Energy Generation (e.g. undertook feasibility study of green energy generation for civic buildings)

* In late 2012, the City commissioned a study to look at District energy options for Centennial square. City Hall's boilers are at the end of their life and in need of replacement. These boilers currently feed a series of buildings in the Square. Different demand and supply options were analyzed to assist in making long term strategic decision regarding replacement of these boilers.

The City has performed a citywide scan of district energy opportunities, including on-site opportunities for horizontal geothermal and solar on City or Province owned buildings in Victoria. A citywide scan of heat recovery opportunities (wastewater and waste to energy) has also been undertaken.

* The City has a green energy revitalization tax exemption bylaw in place to encourage renewable energy use in buildings.

There are no renewable energy or district energy studies/policy development scheduled/budgeted for 2013.

Transportation (e.g. created anti-idling policy for city vehicles, bike to work week promotion)

2011 energy and emissions usage was analyzed in 2012 and upgrades to Profuel (fuel reporting system) made to improve City's ability to understand and manage fleet fuel use at dept/business unit level and vehicle class/unit level.

* In 2013, the City will focus its climate action capacity on fleet as it builds a business case for CNG and hybrid/alt fuel replacement vehicles, and plans its expansion/upgrade to the City's CNG fuelling facility.

* Complete and submit Phase 2 of E3 Fleet program

Waste (e.g. completed waste audit of City Hall)

* The City has an anti-idle bylaw, citywide.

* 2013 will have ongoing printing monitoring and problem resolution for heavy print users.

Water/Sewer (e.g. completed study of sewer and water energy use)

* Utilities master plans are under development in 2012, adoption expected in 2013.

* Climate change adaptation planning in 2012 assessed risk to City and community infrastructure and services as a result of the projected impacts of climate change. Victoria's Climate Change Adaptation Plan to be released in early 2013.

* The City's stormwater utility will incorporate rebates for those properties that alleviate the burden on City storm drains using green infrastructure techniques and extend the life of these assets in the most cost-effective way using the least disruptive technologies.

* Climate Change Adaptation Plan to be completed and presented to Council in Spring 2013. Climate and ENergy Resiliency Plan (implementation plan for climate action (mitigation and adaptation) to be adopted in 2013.

* Utilities master plans (storm, water, sewer) in draft with anticipated adoption in 2013. Utilities master plans include climate change adaptation planning and scenarios for local climate projections were modelled in plan development.

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Other Actions

The City of Victoria created a Climate and Energy Committee that meets monthly to advance climate action in the corporation. Membership includes staff and management from all across the organization who are involved in decision-making that affects the City's energy consumption and carbon footprint.

In 2013, the Climate and Energy Committee focus groups/taskforces for buildings, fleet, streetlights/parkades and waste will continue to implement reduction strategy projects.

2012 Interim CARIP Public Report City of Victoria - Corporate/Municipal Actions

Direct Corporate Actions

Please describe the **direct corporate actions** you have taken in 2012 and propose to take in 2013 to contribute to reducing GHG emissions and energy consumption within your corporate boundary.

Direct actions refer to activities that can be directly implemented by local governments.

We encourage you to report all the corporate actions that contribute to reduced emissions even if they might not directly contribute to the achievement of your carbon neutral commitment. For example, the introduction of corporate recycling programs do not contribute to carbon neutrality but is a direct action to reduce GHG emissions.

If your actions do not fit into the given categories please describe them under "other actions".

List of actions reported in these categories in 2010 and 2011 can be found here: <http://www.cscd.gov.bc.ca/lgd/greencommunities/carip.htm>

Direct Corporate Actions	Actions Taken in 2012	Proposed Actions for 2013
<p>Building and Lighting (e.g. energy efficiency retrofits to municipal buildings)</p>	<ul style="list-style-type: none"> * The City's facilities budget invests \$150,000 annually in building energy improvements. * The City's carbon tax rebate (nearly \$100K/yr) and other sustainability funds are restricted (Climate Action Reserve Fund, current balance approx \$350K) in their use for capacity building or energy reduction projects for climate action in the corporation or community. * A number of small energy efficiency/conservation investments were made during 2012 across the City's various buildings. * A number of behaviour modification/awareness programs were launched in 2012 as part of the Cut the Carbon Campaign -re City buildings to reduce electrical consumption from process loads (computers, printing/equip), and lighting 	<ul style="list-style-type: none"> * The City's facilities budget invests \$150,000 annually in building energy improvements. * The City's carbon tax rebate (nearly \$100K/yr) and other sustainability funds are restricted (Climate Action Reserve Fund current balance approx \$350K) in their use for capacity building or energy reduction projects for climate action in the corporation or community. * City Parkades (5) will have all lamps (2600) replaced with 28 watt bulbs (previously 34 watt) resulting in a 15% energy reduction and less than a 1 yr payback. * Bastion sq. parkade will be trialing motion sensors to reduce # of hrs/day lights are on in upper floors of parkade. * Heritage cluster lights will begin to be replaced with lower wattage, LED bulbs to reduce unnecessary uplighting and energy consumption. * Replacement of Fernwood HVAC System and Crystal Pool electrical upgrades along with recommendations of Continuous Optimization reports for City Hall and Police HQ are among some of the larger energy efficiency/conservation projects occurring in 2013 across City buildings. Other energy performance recommendations from community centres assessment will also be implemented in 2013.
<p>Energy Generation (e.g. implemented heat recovery systems, solar)</p>	<p>No direct actions notable.</p>	<p>No direct actions scheduled for 2013.</p>



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Fleet (e.g. anti-idling policies for fleet vehicles, purchasing of hybrid)

In 2012, Fleet management at the City replaced a number of heavy duty diesel vehicles with CNG. Most notably, the City's 5 garbage trucks were replaced in 2012 (in preparation for separate organics collection) and were replaced with CNG. These 5 trucks consume 4% of total fuel use. By switching to CNG, the City estimates a 20T annual reduction in CO₂e.

- * The City is reviewing replacement of aging fleet with smaller and/or electric/hybrid electric vehicles in 2013 where appropriate.
- * The City continues to convert heavy vehicles to Compressed Natural Gas where appropriate in 2013.
- * Smart Driver in the City training (half day) will be provided to all City staff (excl. police) (approx 200) operating vehicles/equipment. This training, provided by a third party and funded by NRCAN, focuses on fuel management/reduction and safe driver training tips.
- * Fuel Management 101 workshop will be held with Finance, Sustainability, and Fleet Mgmt decision-makers to develop a fuel management plan for reducing fuel use through procurement and operations.
- * Related to new organics collection service rolled out Feb 1, 2013, the City changed its collection service from weekly to biweekly, greatly reducing fuel use by new CNG garbage trucks, resulting in a projected ghg reduction of 50T of CO₂e annually.

Waste (e.g. introduction of composting and recycling programs and education)

In late 2012, the City trialed a new centralized waste mgmt system (recycling/compost/waste) thereby removing all individual waste/recycling bins and making compost bins more accessible. The feedback related to the new system employed in the pilot were positive.

- * In 2013, the pilot re central waste mgmt system will be expanded to other areas of City Hall and other City buildings subject to renovations/budgets.

Water/Sewer (e.g. initiated water conservation and reduction initiatives)

The City continues with its steel water main replacement project and trenchless technologies for relining storm and sewer pipes to reduce infiltration.

- * The City continues with its steel water main replacement project and trenchless technologies for relining storm and sewer pipes to reduce infiltration.
- * Stormwater utility will be effective Jan 2014, in 2013 staff is preparing billing systems for change in how stormwater fees are collected, developing incentive/rebate program, performing civic engagement to inform the public on changes to their bill and to communicate the benefits of green infrastructure, opportunities for rebates, etc..

Green Space (e.g. planting of trees)

- * The City's Parks Dept continues to replace trees throughout City Parks and boulevards.
- * Climate change adaptation planning is helping to inform tree species selection for replantings.
- * LiDAR analysis in 2012 created an urban tree/canopy inventory for entire city that assists in developing tree replacement schedule.

- * The City's Urban Forest Master Plan was adopted by Council in early 2013.
- * The City's Parks Dept continues to replace trees throughout City Parks and boulevards.
- * Climate change adaptation planning is helping to inform tree species selection for replantings.
- * The City is advocating to the CRD to perform region-wide LiDAR and hyperspectral imaging in 2013 to permit enhanced analysis (tree age and species) and management of Victoria's urban forest (both public and private land).

2012 Interim CARIP Public Report City of Victoria - Corporate/Municipal Actions

Other Actions

The City launched its Cut the Carbon Program, and unveiled the new brand identity. The campaign focuses on highlighting the past successes and the current/planned strategies and actions the City is undertaking in the 4 key areas of buildings, fleet and equipment, streetlights, and waste

Education and awareness, particularly in areas of Fleet are planned for 2013 as component of Cut the Carbon Program.

2.3 CORPORATE INNOVATION

Answer

Is there any activity that you have been engaged in over the past year(s) that you are particularly proud of and would like to share with other local governments? Please describe

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You MUST fill this in for the 2012 reporting year.

CLIMATE ACTION REVENUE INCENTIVE PROGRAM (CARIP) PUBLIC REPORT

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2012

Prior to completing this section, please ensure that you are familiar with the "Becoming Carbon Neutral guidebook" available on the BC

[BC Climate Action Toolkit Website](#)

NOTE: Carbon Neutral Progress Reporting for Victoria will be completed for FINAL CARIP report submission at June 1, 2013.

Carbon Neutral Progress Reporting

Is this your Final or Interim CARIP Report for 2012 (Yes or No)?

interim

Emissions/Offsets	Tonnes CO2e	
	Enter Values in Yellow Boxes	
Annual corporate emissions using SMARTTool or equivalent inventory tool		(+)
<i>Emissions from services delivered directly by the local government</i>		
<i>Emissions from contracted services</i>		
Less:		
GHG reductions being claimed for this reporting year from Option 1 - GHG reduction project	0	(-)
<i>Energy Efficient Building Retrofits and Fuel Switching</i>		
<i>Solar Thermal</i>		
<i>Household Organic Waste Composting</i>		
<i>Low Emissions Vehicles</i>		
Less:		
GHG reductions being claimed for this reporting year from Option 2 - GHG reduction projects		
<i>Please list all Option 2 Projects Implemented (insert title of the projects(s) as per project plan template. If you have more than two Option 2 projects you can add more lines at the bottom of this sheet)</i>	0	(-)
<i>Option 2 Project A</i>		
<i>Option 2 Project B</i>		
<i>Sum of Other Option 2 Projects (if you have added projects below)</i>	0	
Less:		
Offsets purchased for this reporting year (Option 3). Please identify your offset provider in the offset provider information section below.		



Balance of corporate emissions for this reporting year.

(If the corporate emissions balance is zero, your local government is carbon neutral for this reporting year)

0

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Making Progress on Your Carbon Neutral Commitment

If your community has not achieved carbon neutrality for this reporting year please describe the actions that you intend to take next year to move you toward your carbon neutral goal.

The City of Victoria recognizes its important role as a leader for climate action in its community.

** The City's newly adopted Official Community Plan addresses climate change and taking action on climate change is core to its policy direction. The City of Victoria is a complete, compact community today. The OCP is taking action by planning for a continuing livable, sustainable community and by encouraging green developments and transit oriented developments.*

** The Corporate Carbon Neutral Plan, Community Energy and Emissions Plan, and Climate Change ADaptation Plan aim to reduce GHG emissions, including both their own and those created by others, and prepare for the impending impacts of climate change;*

** The City continues to support and grow local government capacity to plan and implement climate change initiatives through its investment in a Senior Planner for Environmental Issues to manage the Climate Action Program, and in training for operations staff in Parks and Rec, Engineering and Public Works, and Planning and Development Services.*

** The City continues to share information and explore additional opportunities to support climate change activities, through enhanced collaboration amongst partnerships with other levels of government, utility companies, nonprofit agencies, etc.*

** The City continues to encourage and promote climate change initiatives of individuals and businesses within communities through the provisioning of education and awareness programs and materials.*

Additional "Option 2" Projects

Option 2 Project C

Option 2 Project D

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Offset Provider Information

(i) Please Identify the name(s) of your offset provider(s) (use yellow box to the right):

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(ii-a) The offsets being claimed in this CARIP Report were purchased from the offset provider(s) indicated above prior to making this CARIP report public (please indicate yes or no in yellow box):

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(ii-b) There is a signed agreement in place between the reporting local government and the offset provider(s) indicated above to purchase the offsets by no later than June 1, 2013 (please indicate yes or no in the yellow box):

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CARIP Public Report Attestation Form

The Purpose of this Attestation: As per the CARIP guidance, the Financial Officer is required to attest that the CARIP report submitted to the Province on or before **March 8, 2013** has been made public and also indicate if it is the Final or *Interim* Report.

If applicable, the Financial Officer will also be required to attest that the local government's updated *Interim* CARIP report submitted on **June 1, 2013** has been made public and is the Final Report. Please complete the attestation below that applies to your 2012 CARIP Public Report at this time. **Please review the general CARIP Guidance document for more information on this requirement.**

Financial Officer must complete and sign the APPLICABLE attestation form below and email a scanned copy to the province at infra@gov.bc.ca

FINAL CARIP Report attestation:

I declare that this is the Final 2012 CARIP Public Report for (insert name of local government) and that this report was made public on (date)

Name, Title (print) CFO _____

Signature _____

Date _____

INTERIM CARIP Report attestation:

I declare that this is the *Interim* 2012 CARIP Public Report for City of Victoria and that this Report was made public on **March 8, 2013**.

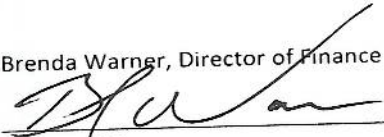
Additional carbon neutral information is needed to complete this CARIP Report and once that information is received; this CARIP report will be updated, made public and submitted as Final to the Province on or before **June 1, 2013**.

As per the CARIP Guidance document, I am aware that local governments that do not make public and submit an updated, Final 2012 CARIP Public Report to the Province by the **June 1, 2013**, deadline:

- May not be eligible for next year's CARIP grant.
- Will not be eligible for certain elements of the Green Communities Recognition Program, and
- Will not be included in the 2012 Provincial level report on local government climate action progress

Name, Title CFO or CAO Brenda Warner, Director of Finance

Signature



Date

March 5 2013