

Climate Action Revenue Incentive (CARIP) Public Report for 2011

*District of Maple Ridge
Metro Vancouver*

Reported by
Jacquie Bergmann

*Research Technician
jbergmann@mapleridge.ca
604-463-5221 e 5263*



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General Information

Name of Local Government	District of Maple Ridge
Member of Regional District (RD)	Metro Vancouver
Regional Growth Strategy (RGS) in region	Yes
Population	76,418

Community Wide Actions for 2011

1.1 Measure

Community Wide Measurement Actions

Question	<i>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?</i>
Answer	Yes
Additional Information	<ul style="list-style-type: none"> • With only one year of CEEI data available (2007), it is difficult to measure progress and to see where there is room for improvement. • Staff reviewed the 2007 Community Energy and Emissions Inventory and recognized the key components and limitations within the inventory. • Staff identified the key sectors where the contribution to GHG emissions were the largest, and then considered the influence the District might have to reduce GHG emissions in these areas. • Staff identified additional performance measures (finer grained) and we are working on data sources for those measures.

1.2 Plan

Community Wide Targets

Question	<i>Do your OCP(s) have targets, policies and actions to reduce GHG emissions, as per the requirements under the Local Governments Act (LGA)? If yes, please identify the targets set. If no or in progress, please comment.</i>
Answer	Yes
Additional Information	<i>The District's OCP, Section 5.6, Policy 5-45 states "The District of Maple Ridge has a goal to reduce community greenhouse gas emissions by 33% below 2007 levels by 2020 and 80% by 2050".</i>

Question	<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 Local Governments Act (LGA)? If yes, please identify the targets set. If no or in progress, please comment.</i>
Answer	n/a
Additional Information	n/a

1.3 Reduce

Supportive Community Wide Actions

Action Type	Broad Planning (e.g. creation/revision of OCPs, CEPs, transportation plans)
Actions Taken this Year	<ul style="list-style-type: none"> • Continued discussions with TransLink to develop improved transit solutions for Citizens. • Participated and offered feedback and input into Metro Vancouver's Regional Growth Strategy Review. • Participated and offered input into the modernization of BC's Water Act. • Began work to update Maple Ridge's Transportation Plan. • Participated in discussions around greening the BC Building Code.
Proposed Actions for Next Year	<ul style="list-style-type: none"> • Continue discussions with TransLink to develop improved transit solutions for Citizens. • Complete update of Maple Ridge's Transportation Plan. • Bring forward new Building Bylaw which will include regulations around solar hot water ready initiatives.

Action Type	Building and Lighting (e.g. developed green building policy, increased density in the downtown)
Actions Taken this Year	<ul style="list-style-type: none"> • Continue to promote increased density in the town centre. • Purchase several derelict properties in the town center to demolish the buildings and prepare the site for development.
Proposed Actions for Next Year	<ul style="list-style-type: none"> • Continue to promote increased density in the town centre. • Issuance of RFP for sale of site purchased in 2011, to encourage building of mixed use, residential/commercial, in the town centre.

Action Type	Energy Generation (e.g. signed on to provincial 'solar ready' regulation, explored options for bioheating for buildings)
Actions Taken this Year	<ul style="list-style-type: none"> • Adopted provincial solar hot water ready regulation requiring most new single family homes to be built to accommodate future installation of solar hot water systems for water heating.
Proposed Actions for Next Year	<ul style="list-style-type: none"> • Complete Building Bylaw amendments to Council and implement Solar Hot Water Ready initiatives.

Action Type	Transportation (e.g. developed sustainable transportation plan, completed bicycle master plan)
Actions Taken this Year	<ul style="list-style-type: none"> • Continued discussions with TransLink to develop improved transit solutions for Maple Ridge.
Proposed Actions for Next Year	<ul style="list-style-type: none"> • Continue discussions with TransLink to develop improved transit solutions for Maple Ridge.

Action Type	Waste (e.g. introduced composting and recycling education programs)
Actions Taken this Year	<ul style="list-style-type: none"> • Continued with Recycling education/outreach programs. • Continued to advocate for increased diversion of recyclable and compostable commodities with Metro Vancouver Waste Management staff.
Proposed Actions for Next Year	<ul style="list-style-type: none"> • Continue with Recycling education/outreach programs. • Continue to advocate for increased diversion of recyclable and compostable commodities with Metro Vancouver Waste Management staff.

Action Type	Water/Sewer (e.g. participated in water smart initiatives, implemented Water Action Plan, introduced rebates on low flush toilets)
Actions Taken this Year	<ul style="list-style-type: none"> • Low Flow Toilet Rebate Program. • Continue publishing season specific notices in the local paper regarding sprinkling regulations.
Proposed Actions for Next Year	<ul style="list-style-type: none"> • Continue to support Low Flow Toilet Rebate Program. • Continue publishing season specific notices in the local paper regarding sprinkling regulations. • Introduction of a rebate program for installation of low water use fixtures subject to Council approval.

Action Type	Other Actions
Actions Taken this Year	<ul style="list-style-type: none"> • Promoted Climate Smart's 'Smart Business Program' where small and mid-sized businesses are provided with training and software to measure their carbon emissions and plan emission reductions. • Became a signatory to the Mexico City Pact, a voluntary initiative of mayors and local authority representatives that aims to advance climate actions. • Promoted, supported and hosted EarthDay event.
Proposed Actions for Next Year	<ul style="list-style-type: none"> • Continue to promote Climate Smart's 'Smart Business Program'. • Continue to support and participate in the Mexico City Pact. • Promote, support and host EarthDay event.

Direct Community Wide Actions

Action Type	Buildings (e.g. implement use of sustainability checklists and development permit guidelines for new buildings)
Actions Taken this Year	<ul style="list-style-type: none"> • Launch of Town Centre Investment Incentives Program – an incentive program to attract residential and commercial construction and encourage and support the use of environmentally sustainable building construction methods and materials, and to encourage energy efficiencies and alternative technologies. Included in the program are incentives such as fee reductions, priority processing, reduced parking standards, property tax exemptions, among others. This additional investment in the District's Town Centre will help to increase and diversify density in the Town Centre where public transit (bus hub and West Coast Express) is in close proximity. • Continued to host twice yearly Builders Forums which include the dissemination of information on energy efficiency and green building technology.
Proposed Actions for Next Year	<ul style="list-style-type: none"> • Continue to support Town Centre Investment Incentives Program. • Continue to host twice yearly Builders Forums which include the dissemination of information on energy efficiency and green building technology.

Action Type	<i>Energy Generation (e.g. implement district energy, geothermal, solar)</i>
Actions Taken this Year	<ul style="list-style-type: none"> • Building bylaw amendments to implement Solar Hot Water Ready Initiatives.
Proposed Actions for Next Year	<ul style="list-style-type: none"> • Complete building bylaw amendments to implement Solar Hot Water Ready Initiatives.

Action Type	<i>Transportation (e.g. implement bike lanes, pedestrian paths, upgrade transit service and infrastructure, improve roads, parking fees etc.)</i>
Actions Taken this Year	<ul style="list-style-type: none"> • Construction of new bike lanes. • Completion of the Northern Alouette Greenway Bridge Crossing project – providing a linkage to a series of trails providing a safer alternative route for equestrians, pedestrians and bicycle riders. • Completion of Vernon Trail Bridge. • Completion of the Downtown Enhancement Project, improving the Downtown's role as a key community node, increasing pedestrian circulation throughout the Downtown area, and promoting long-term economic development. • Revamping of the Zoning bylaw with a key objective of reducing GHG emissions and energy consumption. • Promote the District's Town Centre Investment Incentives Program to concentrate density closer to transit options. • Promote Summer Cycling Photo Contest to encourage ridership in the community. Updating District's Transportation Plan. • Widened sidewalks and removed barriers to alternate modes of transportation (pedestrians, scooters, etc.) in the Town Centre.
Proposed Actions for Next Year	<ul style="list-style-type: none"> • Continue to construct new bike lanes. • Continue to promote the District's Town Centre Investment Incentives Program to concentrate density closer to transit options. • Complete update of District Transportation Plan. • Organize joint meeting with Bicycle Advisory Committee, Tourism BC, and Slow Food Cycle tour to organize a Bike/Garden Tour.

Action Type	<i>Waste (e.g. introduce composting and recycling programs)</i>
Actions Taken this Year	<ul style="list-style-type: none"> • Subsidized Solar Cone "Digester" for citizens so they can purchase their own solar cones for composting kitchen and garden waste. • Brush Chipping Program. Offered twice a year, curbside pickup for Maple Ridge residents to dispose of green waste and clean wood waste, including branches, yard clippings and grass sod. • Completed solid waste Garbage & Recycling Regulations bylaw. • Expanded Recycling pick up services further east. • Expanded number of business involved in the Recycling Program. • Continue to work towards 'zero waste'-implement "Strive for 75". • Continued with Recycling education/outreach programs. • Work towards pickup program by Recycling for foodscraps/yard trimmings. • Create solid waste garbage and recycling regulations bylaw. • Promoted expanded Recycling Depot operations, including antifreeze and small

	<p><i>appliances.</i></p> <ul style="list-style-type: none"> • <i>Developed framework to include commercial properties into the property tax structure for commercial recycling services.</i>
Proposed Actions for Next Year	<ul style="list-style-type: none"> • <i>Continue to work towards pickup program by Recycling for foodscraps/yard trimmings.</i> • <i>Continue to expand Recycling pick up services further east.</i> • <i>Continue to expand number of business involved in the Recycling Program.</i> • <i>Continue to work towards 'zero waste'-implement "Strive for 75".</i> • <i>Continue with Recycling education/outreach programs.</i> • <i>Continue with twice yearly Brush Chipping Program.</i> • <i>Continue to promote expanded Recycling Depot operations, including antifreeze and small appliances.</i> • <i>Continue to develop framework to include commercial properties into the property tax structure for commercial recycling services.</i>

Action Type	<i>Water/Sewer (e.g. implement water conservation and reduction initiatives)</i>
Actions Taken this Year	<ul style="list-style-type: none"> • <i>Low Flow Toilet Rebate Program.</i> • <i>Continue update of stream mapping project.</i> • <i>Continue publishing season specific notices in the local paper regarding sprinkling regulations.</i>
Proposed Actions for Next Year	<ul style="list-style-type: none"> • <i>Continue to offer Low Flow Toilet Rebate Program.</i> • <i>Continue publishing season specific notices in the local paper regarding sprinkling regulations.</i> • <i>Continue update of stream mapping project.</i> • <i>Introduction of a rebate program for installation of low water use fixtures subject to Council approval.</i>

Action Type	<i>Green Space (e.g. plant trees, conserve forest etc.)</i>
Actions Taken this Year	<ul style="list-style-type: none"> • <i>Continue to host Arbor Day Tree planting.</i> • <i>Continue to develop programs and projects to preserve and enhance the natural assets of Maple Ridge with local community groups.</i> • <i>Continue to protect environmentally sensitive areas through dedication or covenant.</i>
Proposed Actions for Next Year	<ul style="list-style-type: none"> • <i>Implementation of a trails management plan.</i> • <i>Implementation of a Bear Aware program.</i> • <i>Continue to host Arbor Day Tree planting.</i> • <i>Completion of 2012 Tree Replacement program.</i> • <i>Continue to develop programs and projects to preserve and enhance the natural assets of Maple Ridge with local community groups.</i> • <i>Continue to protect environmentally sensitive areas through dedication or covenant.</i>

Action Type	<i>Other Actions</i>
Actions Taken this Year	<ul style="list-style-type: none"> • <i>Promote Haney Farmers Market events.</i> • <i>Promote Golden Harvest event.</i> • <i>Promote Front Yard Food Garden Contest.</i> • <i>Continue to expand and support School Neighbourhood Garden Initiatives.</i>
Proposed Actions for Next Year	<ul style="list-style-type: none"> • <i>Promote Haney Farmers Market events.</i> • <i>Promote Golden Harvest event.</i> • <i>Continue to expand and support School Neighbourhood Garden Initiatives.</i>

Corporate Actions for 2011

2.1 Measure

Corporate Measurement Actions

Question	<i>What steps has your local government taken toward completing its corporate emissions inventory (e.g. corporate assets gathered related to energy and fuel data and calculated GHG emissions from energy use)?</i>
Answer	<i>Corporate energy and emissions inventories have been completed for 2007, 2008, 2009, and 2010.</i>

Question	<i>What tool are you using to measure, track and report on your corporate emissions (e.g. SMARTtool, other tools including excel spreadsheets)?</i>
Answer	<i>Excel Spreadsheet, obtained from FCM's Partners for Climate Protection website http://fcm.ca/home/programs/partners-for-climate-protection/program-resources.htm.</i>

2.2 Reduce

Supportive Corporate Actions

Action Type	<i>Broad Planning (e.g. developed corporate climate action plan)</i>
Actions Taken this Year	<ul style="list-style-type: none"> • <i>Developed Employee Energy Policy.</i> • <i>Began development of an Environmental Management Plan.</i> • <i>Launched Workplace Conservation Awareness Program.</i> • <i>Updated Strategic Energy Management Plan.</i>
Proposed Actions for Next Year	<ul style="list-style-type: none"> • <i>Continue to implement Workplace Conservation Awareness Program.</i> • <i>Completion of Environmental Management Plan.</i> • <i>Continue to update Strategic Energy Management Plan.</i>

Action Type	<i>Building and Lighting (e.g. developed energy reduction plan for all corporate buildings)</i>
Actions Taken this Year	<ul style="list-style-type: none"> • <i>Promoted and participated in Earth Hour Event.</i> • <i>Developed targets for energy consumption reductions.</i>
Proposed Actions for Next Year	<ul style="list-style-type: none"> • <i>Promote and participate in Earth Hour Event.</i> • <i>Report out/publish energy consumption versus targets.</i>

Action Type	<i>Transportation (e.g. created anti-idling policy for city vehicles, bike to work week promotion)</i>
Actions Taken this Year	<ul style="list-style-type: none"> • <i>Promoted Bike to Work Week.</i> • <i>Promoted Ride Share Week.</i> • <i>Promoted Carpool Hero Campaign.</i>
Proposed Actions for Next Year	<ul style="list-style-type: none"> • <i>Promote Bike to Work Week.</i> • <i>Promote Ride Share Week.</i> • <i>Promote Carpool Hero Campaign.</i>

Action Type	Waste(e.g. completed waste audit of City Hall)
Actions Taken this Year	<ul style="list-style-type: none"> • Promoted Waste Reduction Week.
Proposed Actions for Next Year	<ul style="list-style-type: none"> • Promote Waste Reduction Week.

Action Type	Water/Sewer (e.g. completed study of sewer and water energy use)
Actions Taken this Year	<ul style="list-style-type: none"> • 248 Street and 225 Street electrical Pump Study was completed this year – programming, mechanical, maintenance improvements.
Proposed Actions for Next Year	<ul style="list-style-type: none"> • 248 Street and 225 Street electrical Pump Study proposed actions to be reviewed.

Action Type	Other Actions
Actions Taken this Year	<ul style="list-style-type: none"> • Promoted use of Public Library (the ultimate recycler) during Library Month.
Proposed Actions for Next Year	<ul style="list-style-type: none"> • Promote use of Public Library (the ultimate recycler) during Library Month.

Direct Corporate Actions

Action Type	Building and Lighting (e.g. energy efficiency retrofits to municipal buildings)
Actions Taken this Year	<ul style="list-style-type: none"> • Completion of Community Animal Shelter in accordance with LEED principles. • Operations Centre Phase 2 mechanical upgrades, including replacement of heater/chiller. • Audit municipal facilities for occupancy lighting sensors, liaise with BC Hydro and determine costs for implementation. • Upgraded lighting and lit signage at corporate facilities to become more energy efficient where possible. This includes LED signage at the Leisure Centre and Library, and the replacement of metal halide lamps in the Leisure Centre. • Searched for the right lighting technology that will be cost effective and energy efficient for the District's street lights.
Proposed Actions for Next Year	<ul style="list-style-type: none"> • Investigate whether making the change to LED signage at the Leisure Centre and Library is cost effective. • Continue to search for the right lighting technology that will be cost effective and energy efficient for the District's street lights. • Installation of additional occupancy sensors in Municipal Hall and Operations Building. • Investigate lighting upgrades for the Leisure Centre.

Action Type	<i>Fleet (e.g. anti-idling policies for fleet vehicles, purchasing of hybrid)</i>
Actions Taken this Year	<ul style="list-style-type: none"> • Continued to add hybrid vehicles to the District's Fleet. • Creation of an electric vehicle from an old fleet vehicle to add to the District's Fleet. • Use of and promote use of pedal bikes in Youth Services as an alternative to using a fleet vehicle. • Review of Parks Department fleet costs to determine efficiency and cost effectiveness of existing equipment.
Proposed Actions for Next Year	<ul style="list-style-type: none"> • Continue to add hybrid vehicles to the District's Fleet. • Documentation and review of the trial period of use of the electrical vehicle created by staff. • Continue to use and promote use of pedal bikes in Youth Services as an alternative to using a fleet vehicle.

Action Type	<i>Waste (e.g. introduction of composting and recycling programs and education)</i>
Actions Taken this Year	<ul style="list-style-type: none"> • Continued corporate Recycling program. • Recycled surplus electronic equipment. • Investigated and made recommendation on potential recycling programs in parks to divert recyclable materials from the landfill. • Continued with corporate composting program.
Proposed Actions for Next Year	<ul style="list-style-type: none"> • Continue corporate Recycling program. • Continue corporate composting program. • Lessons learned from investigations on potential recycling programs in parks will be applied to initiatives for 2012. • Continue to recycle surplus electronic equipment.

Action Type	<i>Water/Sewer (e.g. initiated water conservation and reduction initiatives)</i>
Actions Taken this Year	<ul style="list-style-type: none"> • Upgraded Leisure Centre lobby washroom fixtures to low-flow devices.
Proposed Actions for Next Year	<ul style="list-style-type: none"> • Upgrade park washroom fixtures to low-flow devices.

Action Type	<i>Green Space (e.g. planting of trees)</i>
Actions Taken this Year	<ul style="list-style-type: none"> • Investigated potential for tribute tree planting program at cemetery sites. • Acquisition of greenbelt and park space areas. • Continued with update of stream mapping project. • Applied for funding to Aquifer Signage (denied).
Proposed Actions for Next Year	<ul style="list-style-type: none"> • Continue with tribute tree planting program at cemetery sites. • Acquisition of greenbelt and park space areas. • Continue with update of stream mapping project. • Install aquifer signage.

Action Type	<i>Other Actions</i>
Actions Taken this Year	<ul style="list-style-type: none"> • Developed and implemented telework policy. • Began development of a policy for hosting environmentally sustainable meetings and events. Staff have already incorporated many of the initiatives included in the policy for hosting these events. • Implemented online employment application program.

Proposed Actions for Next Year	<ul style="list-style-type: none"> • <i>Adopt policy for hosting environmentally sustainable meetings and events.</i>
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2.3 Corporate Innovations

Question	<p><i>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.</i></p>
Answer	<p><i>District Operations Centre staff rebuilt a 2001 GMC Sonoma creating a new 'Zero Emission Vehicle'. The electric truck ranges 100 kilometres on a charge and costs approximately \$1.30 to charge. With its current use, the District would have expected to pay approximately \$6,000 a year for fuel and produce approximately 10 tonnes of greenhouse gas emissions (CO2e). Using electricity will cost approximately \$1,200 with no emissions being produced.</i></p> <p>http://mapleridge.ca/EN/main/municipal/media/media/archives/dmr_news-release_electric-truck.html</p>

