

# Climate Action Revenue Incentive (CARIP) Public Report for YEAR 2012

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## **Resort Municipality of Whistler**

*Squamish Lillooet RD*

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## **General Information**

<b>Name of Local Government</b>	<i>Resort Municipality of Whistler</i>
<b>Member of Regional District (RD)</b>	<i>Squamish Lillooet RD</i>
<b>Regional Growth Strategy (RGS) in region</b>	<i>Yes</i>
<b>Population</b>	<i>10,400</i>

## Community-Wide Actions for 2012

### 1.1 Measure

#### Community-Wide Measurement Actions

<b>Question</b>	Have you been using the <i>Community Energy and Emissions Inventory (CEEI)</i> to measure progress? What else have you been using instead of/in addition to CEEI?
<b>Answer</b>	No
<b>Additional Information</b>	We compile our own annual <i>community-wide energy and emissions inventories annually</i> . Access to a summary report based on the 2011 inventory can be accessed here:  <a href="http://www.whistler.ca/residents/sustainability-environmental-protection/our-track-record-whistler%E2%80%99s-energy-performance">http://www.whistler.ca/residents/sustainability-environmental-protection/our-track-record-whistler%E2%80%99s-energy-performance</a>

### 1.2 Plan

#### Community-Wide Targets

<b>Question</b>	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.
<b>Answer</b>	Yes
<b>Additional Information</b>	Both the existing and the current Draft Updated OCP (third reading) can be accessed here:  <a href="http://whistler2010.com/">http://whistler2010.com/</a>

## 1.3 Reduce

### Supportive Community-Wide Actions

Action Type	Broad Planning (e.g. creation/revision of OCPs, CEPs, transportation plans)
<b>Actions Taken this Year</b>	<p><i>Creation of Draft Updated OCP (including new chapter on Climate Action &amp; Energy Efficiency) - including extensive community engagement, and a new community-wide energy performance target.</i></p> <p><i>Participated in BC Hydro community energy manager program.</i></p>
<b>Proposed Actions for Next Year</b>	<p><i>OCP to be formally adopted by Council (currently at 3rd reading).</i></p> <p><i>Update Community Energy &amp; Emissions Plan (CEEP)</i></p>

Action Type	Building and Lighting (e.g. developed green building policy, increased density in the downtown)
<b>Actions Taken this Year</b>	<p><i>The RMOW already has a formal Green Building Policy. We continue to apply this policy as appropriate through ongoing rezoning opportunities - linking increased energy performance to rezoning outcomes (often through Section 219 Covenants)</i></p> <p><i>Substantially improved energy efficiency related communication &amp; resources on whistler.ca and related communication channels.</i></p> <p><i>Worked with BC Hydro and other local governments to develop LED street lighting standards.</i></p>
<b>Proposed Actions for Next Year</b>	<p><i>Update Community Energy and Emissions Plan.</i></p> <p><i>Researching and developing a local government-based energy efficiency incentive program for existing buildings.</i></p>

<b>Action Type</b>	<b>Energy Generation (e.g. signed on to provincial 'solar ready' regulation, explored options for bioheating for buildings)</b>
<b>Actions Taken this Year</b>	<p>The <i>Provincial Solar Ready Regulation</i> was approved for application in Whistler.</p> <p>Undertook a <i>Feasibility Assessment</i> for a potential <i>District Energy System (DES)</i> for Whistler Village.</p>
<b>Proposed Actions for Next Year</b>	Evaluating the potential to offer incentives in support of distributed (renewable) energy generation for buildings in Whistler.

<b>Action Type</b>	<b>Green Space (e.g. developed urban forestry policy, adopted park acquisition policy)</b>
<b>Actions Taken this Year</b>	Support approaches for integrating ecosystem based management protocols in the Cheakamus Community Forest (CCF). Leveraging the Provincial FCOP to execute a carbon offset project within the CCF.
<b>Proposed Actions for Next Year</b>	When offsets become available from CCF (2013 target), use these locally-based offsets to support carbon neutral commitments.

<b>Action Type</b>	<b>Transportation (e.g. developed sustainable transportation plan, completed bicycle master plan)</b>
<b>Actions Taken this Year</b>	<p>Integrated <i>TDM policies</i> into updated <i>OCP</i>.</p> <p>Undertook <i>EVSE planning and outreach strategy</i>.</p>
<b>Proposed Actions for Next Year</b>	

<b>Action Type</b>	<b>Waste (e.g. introduced composting and recycling education programs)</b>
<b>Actions Taken this Year</b>	Undertook a zero-waste strategy including extensive public and stakeholder engagement Continue to track and report TDRs
<b>Proposed Actions for Next Year</b>	Undertaking a review of our plastics management strategy. Finalize zero-waste strategy.

<b>Action Type</b>	<b>Water/Sewer (e.g. participated in water smart initiatives, implemented Water Action Plan, introduced rebates on low flush toilets)</b>
<b>Actions Taken this Year</b>	
<b>Proposed Actions for Next Year</b>	Develop a new/updated water conservation and supply strategy.

### Direct Community-Wide Actions

<b>Action Type</b>	<b>Buildings (e.g. implement use of sustainability checklists and development permit guidelines for new buildings)</b>
<b>Actions Taken this Year</b>	Continue to operate and optimize the Cheakamus Crossing District Energy System (e.g. siphon system to increase and stabilize flow rates through heat exchanger plates).
<b>Proposed Actions for Next Year</b>	

<b>Action Type</b>	<b>Energy Generation (e.g. implement district energy, geothermal, solar)</b>
<b>Actions Taken this Year</b>	<i>Continue to operate and optimize the Cheakamus Crossing District Energy System.</i>
<b>Proposed Actions for Next Year</b>	

<b>Action Type</b>	<b>Transportation (e.g. implement bike lanes, pedestrian paths, upgrade transit service and infrastructure, improve roads, parking fees etc.)</b>
<b>Actions Taken this Year</b>	<i>Continued to expand non-motorized Valley Trail network. Installed 6 new publicly-accessible Level II EVSEs and undertook an EVSE expansion/support strategy</i>
<b>Proposed Actions for Next Year</b>	<i>Developing a DC Fast Charging Station in collaboration with the Province and BC Hydro.</i>

<b>Action Type</b>	<b>Waste (e.g. introduce composting and recycling programs )</b>
<b>Actions Taken this Year</b>	<i>Preliminary assessment of biofuel production from Whistler Compost Facility.</i>
<b>Proposed Actions for Next Year</b>	<i>Continue to expand the diversion of organics through outreach, pricing and access optimizations. Phase II assessment of biofuel potential at Whistler Compost Facility.</i>

Action Type	Water/Sewer (e.g. implement water conservation and reduction initiatives)
<b>Actions Taken this Year</b>	<i>continue to expand our leak detection and repair strategies across the water system</i>
<b>Proposed Actions for Next Year</b>	

Action Type	Green Space (e.g. plant trees, conserve forest etc.)
<b>Actions Taken this Year</b>	
<b>Proposed Actions for Next Year</b>	<i>When offsets become available from CCF (2013 target), use these locally-based offsets to support carbon neutral commitments.</i>

## Corporate Actions for 2012

### 2.1 Measure

#### Corporate Measurement Actions

<b>Question</b>	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)?
<b>Answer</b>	The RMOW has more than 6 years of detailed (individually tracked by division, department, workgroup and task) accounting of corporate energy consumption. These inventories include expenditures and GHG emissions generated from each applicable fuel source, as well as workgroup by workgroup carbon costing integrated with our Carbon Neutral Operations Plan

<b>Question</b>	What tool are you using to measure, track and report on your corporate emissions (e.g. SMARTtool, other tools including excel spreadsheets)?
<b>Answer</b>	MS Excel

### 2.2 Reduce

#### Supportive Corporate Actions

<b>Action Type</b>	Broad Planning (e.g. developed corporate climate action plan)
<b>Actions Taken this Year</b>	Continue to execute on the RMOW Carbon Neutral Operations Plan
<b>Proposed Actions for Next Year</b>	Updated the Community Energy & Emissions Inventory (including Corporate sections)



<b>Action Type</b>	<i>Building and Lighting (e.g. developed energy reduction plan for all corporate buildings)</i>
<b>Actions Taken this Year</b>	<i>Detailed building energy monitoring for Lost Lake PassivHaus, Whistler Public Library (LEED Gold), as well as Meadow Park Sports Centre (over 400tCO2e annual reductions achieved at MPSC alone)</i>
<b>Proposed Actions for Next Year</b>	<i>Continue to leverage corporate energy tracking toward greater energy efficiency across municipal building assets.  Energy Study planned for MY Place Theatre.</i>

<b>Action Type</b>	<i>Energy Generation (e.g. undertook feasibility study of green energy generation for civic buildings)</i>
<b>Actions Taken this Year</b>	
<b>Proposed Actions for Next Year</b>	<i>(Re) evaluate PV array potential at MPSC</i>

<b>Action Type</b>	<i>Transportation (e.g. created anti-idling policy for city vehicles, bike to work week promotion)</i>
<b>Actions Taken this Year</b>	<i>Participated in Bike to Work Week.  Host a trails and cycling advisory group with community stakeholders.</i>
<b>Proposed Actions for Next Year</b>	<i>Update energy efficient vehicle replacement strategy.  Host a trails and cycling advisory group with community stakeholders.</i>

<b>Action Type</b>	<b>Waste</b> (e.g. completed waste <i>audit of City Hall</i> )
<b>Actions Taken this Year</b>	
<b>Proposed Actions for Next Year</b>	<i>Advance and adopt the new zero waste strategy</i>

<b>Action Type</b>	<b>Water/Sewer</b> (e.g. <i>completed study of sewer and water energy use</i> )
<b>Actions Taken this Year</b>	<i>Undertook an energy study at WWTP.</i>
<b>Proposed Actions for Next Year</b>	<i>Pursue phase 2 energy study at WWTP.</i>

### Direct Corporate Actions

<b>Action Type</b>	<b>Building and Lighting</b> (e.g. <i>energy efficiency retrofits to municipal buildings</i> )
<b>Actions Taken this Year</b>	<i>Substantial relamping of the public works yard</i> <i>Boiler upgrades at MPSC</i> <i>On-demand process hot water system installed at WWTP</i>
<b>Proposed Actions for Next Year</b>	<i>Building Energy upgrades planned at MY Place</i> <i>Lighting retrofits planned for MPSC</i> <i>Phase 2 energy upgrades planned at WWTP</i>

Action Type	Energy Generation (e.g. implemented heat recovery systems, solar)
<b>Actions Taken this Year</b>	Heat recovery system installed at Whistler Compost Facility.
<b>Proposed Actions for Next Year</b>	

Action Type	Fleet (e.g. anti-idling policies for fleet vehicles, purchasing of hybrid)
<b>Actions Taken this Year</b>	
<b>Proposed Actions for Next Year</b>	Evaluate <i>additional electric vehicles for integration in fleet</i>

## Carbon Neutral Progress Reporting

### Tonnes CO2e

<b>Annual corporate emissions using SMARTTool or equivalent inventory tool</b>	<b>1946</b>
<i>Emissions from services delivered directly by the local government</i>	1814
<i>Emissions from contracted services</i>	132
<b>Less:</b>	0
<b>GHG reductions being claimed for this reporting year from Option 1 - GHG reduction project</b>	
<i>Energy Efficient Building Retrofits and Fuel Switching</i>	0
<i>Solar Thermal</i>	
<i>Household Organic Waste Composting</i>	
<i>Low Emissions Vehicles</i>	
<b>Less:</b>	0
<b>GHG reductions being claimed for this reporting year from Option 2 - GHG reduction projects</b>	0
<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>	
<b>Less:</b>	0
<b>Offsets purchased for this reporting year (Option 3). Please identify your offset provider in the offset provider information section below.</b>	0
<b>Balance of corporate emissions for this reporting year.</b>	
<i>(If the corporate emissions balance is zero, your local government is carbon neutral for this reporting year)</i>	1946

## Making Progress on Your Carbon Neutral Commitment

<b>Question</b>	Balance of corporate emissions for this reporting year. <i>(If the corporate emissions balance is zero, your local government is carbon neutral for this reporting year)</i>
<b>Answer</b>	<p>The RMOW intends to fully neutralize the emissions from its 2012 (and 2011) reporting years. The RMOW has been working with the Cheakamus Community Forest in support of their efforts to gain third party validation and verification for offsets created consistent with the FCOP across their operations. Once achieved, it is the intent of the RMOW to purchase offsets directly from the CCF in support of its carbon neutrality commitments.</p> <p>This report is considered <b>INTERIM</b> at this time.</p> <p>For reference, the RMOW fully neutralized its 2010 emissions (<a href="http://www.whistler.ca/sites/default/files/related/rmow_2010_annual_energy_ghg_emissions_performance_report.pdf">http://www.whistler.ca/sites/default/files/related/rmow_2010_annual_energy_ghg_emissions_performance_report.pdf</a> Appendix D)</p>

<b>Offset Provider</b>	Planned purchase with the Cheakamus Community Forest (validation and verification pending)
<b>We have already purchased</b>	no
<b>Or, will purchase by June 1, 2013</b>	Planned