

# Climate Action Revenue Incentive (CARIP) Public Report for YEAR 2011

---

**Resort Municipality of Whistler**  
*Squamish Lillooet Regional District*

Reported by:  
*Ted Battiston*

*Mgr, Community Energy & Emission Reductions*  
*tbattiston@whistler.ca*  
*604-935-8205*



Template provided by:  
*Ministry of Community, Sport & Cultural Development*  
*Province of British Columbia*

## Table of Contents

- [General Information](#)
- [Community Wide Actions](#)
  - 1.1 - [Measure](#)
  - 1.2 - [Plan](#)
  - 1.3 - [Reduce](#)
    - [Supportive](#)
    - [Direct](#)
  - 1.4 - [Community Wide Innovation](#)
    - [Corporate Actions](#)
      - 2.1 - [Measure](#)
      - 2.2 - [Reduce](#)
        - [Supportive](#)
        - [Direct](#)
      - 2.3 - [Corporate Innovations](#)
- [Carbon Neutral Progress Reporting](#)

## General Information

<b>Name of Local Government</b>	<b>Resort Municipality of Whistler</b>
<b>Member of Regional District (RD)</b>	<i>Squamish Lillooet Regional District</i>
<b>Regional Growth Strategy (RGS) in region</b>	<i>Yes</i>
<b>Population</b>	<i>10,300</i>

# Community Wide Actions for 2011

## 1.1 Measure

### Community Wide Measurement Actions

<b>Question</b>	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?
<b>Answer</b>	No
<b>Additional Information</b>	<p>We compile our own annual community-wide energy and emissions inventories annually. Access to a summary report based on the 2010 inventory can be accessed here:</p> <p><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></p>

## 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>	<p>Both the existing and the current Draft Updated OCP (first reading) can be accessed here:</p> <p><a href="http://whistler2010.com/">http://whistler2010.com/</a></p>

## 1.3 Reduce

### Supportive Community Wide Actions

<b>Action Type</b>	<b>Broad Planning</b> (e.g. creation/revision of OCPs, CEPs, transportation plans)
<b>Actions Taken this Year</b>	<i>creation of Draft Updated OCP (including new chapter on Climate Action &amp; Energy Efficiency) - including extensive community engagement, a new community-wide energy performance target, as well as a new DPA for the promotion of energy conservation and the reduction of GHGs</i>
<b>Proposed Actions for Next Year</b>	<i>Adoption of Draft Updated OCP (currently at first reading). Update Whistler's existing Community Energy Plan.</i>

<b>Action Type</b>	<b>Building and Lighting</b> (e.g. developed green building policy, increased density in the downtown)
<b>Actions Taken this Year</b>	<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.  Substantially improved energy efficiency related communication &amp; resources on whistler.ca and related communication channels.</i>
<b>Proposed Actions for Next Year</b>	<i>Continued application of Green Building Policy and energy efficiency goals through the development approval process.  Integrate energy efficiency outreach into Business License mail-outs.</i>

<b>Action Type</b>	<b>Energy Generation</b> (e.g. signed on to provincial 'solar ready' regulation, explored options for bioheating for buildings)
<b>Actions Taken this Year</b>	<i>The Provincial Solar Ready Regulation was approved for application to Whistler.  Continue to operate and optimize the Cheakamus Crossing District Energy System.</i>
<b>Proposed Actions for Next Year</b>	<i>Consider undertaking a pre-feasibility assessment of district energy system for Whistler's core commercial area (Whistler Village).</i>

<b>Action Type</b>	<i>Green Space</i> (e.g. developed urban forestry policy, adopted park acquisition policy)
<b>Actions Taken this Year</b>	<i>Support approaches for integrating ecosystem based management protocols in the Cheakamus Community Forest (CCF).</i>
<b>Proposed Actions for Next Year</b>	<i>Continue to support the CCF as they explore the potential to generate third party verified carbon offset products. Update RMOW Parks Master Plan (Park Visions).</i>

<b>Action Type</b>	<i>Transportation</i> (e.g. developed sustainable transportation plan, completed bicycle master plan)
<b>Actions Taken this Year</b>	<i>Created a comprehensive pay-parking approach for Whistler Village. Opened new sections of the Valley Trail to improve non-motorized commuting options. More than a thousand participants in annual RMOW Commuter Challenge contest.</i>

<b>Action Type</b>	<i>Waste</i> (e.g. introduced composting and recycling education programs)
<b>Actions Taken this Year</b>	<i>Expanded the reach and promotion of Whistler's organics recycling program, targeting large producers in the commercial sector.</i>
<b>Proposed Actions for Next Year</b>	<i>Adoption of the Draft Updated OCP and the formalization of Whistler's zero-waste goal.</i>

## Direct Community Wide Actions

<b>Action Type</b>	<b><i>Buildings</i></b> (e.g. implement use of sustainability checklists and development permit guidelines for new buildings)
<b>Actions Taken this Year</b>	<i>Drafted a new Development Permit Area for the promotion of Energy and Water Conservation as well as the Reduction of GHGs.</i>
<b>Proposed Actions for Next Year</b>	<i>Formalization of the new DPA through adoption of the Draft Updated OCP. Consideration of a floor exclusion policy for GFA measurements that reduces potential barriers thicker highly insulated wall assemblies</i>

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

<b>Action Type</b>	<b><i>Transportation</i></b> (e.g. implement bike lanes, pedestrian paths, upgrade transit service and infrastructure, improve roads, parking fees etc.)
<b>Actions Taken this Year</b>	<i>Supported improvements to the ongoing maintenance of bike lines along Highway 99. Hosted 2 week long community-wide Commuter Challenge</i>

<b>Action Type</b>	<b><i>Waste</i></b> (e.g. introduce composting and recycling programs )
<b>Actions Taken this Year</b>	<i>Expanded organics recycling opportunities for yard waste.</i>

<b>Action Type</b>	<i>Water/Sewer</i> (e.g. implement water conservation and reduction initiatives)
<b>Actions Taken this Year</b>	<i>Upgraded water mains and continued to identify and repair leaks across the system.</i>

<b>Action Type</b>	<i>Green Space</i> (e.g. plant trees, conserve forest etc.)
<b>Actions Taken this Year</b>	<i>Designed and developed a new spawning channel and associated riparian habitat reconstruction along Fitzimmons Creek. Designated and protected a new nesting bird biodiversity project at the Fitzimmons Delta.</i>

## Corporate Actions for 2011

### 2.1 Measure

#### Corporate Measurement Actions

<b>Question</b>	<b>What steps has your local government taken toward completing its corporate emissions inventory</b> (e.g. corporate assets gathered related to energy and fuel data and calculated GHG emissions from energy use)?
<b>Answer</b>	<i>The RMOW has more than 5 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</i>

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

## 2.2 Reduce

### Supportive Corporate Actions

<b>Action Type</b>	<i>Broad Planning</i> (e.g. developed corporate climate action plan)
<b>Actions Taken this Year</b>	<i>Execution of the RMOW Carbon Neutral Plan and associated planning workshops. Integrated carbon pricing through all corporate operations.</i>
<b>Action Type</b>	<i>Building and Lighting</i> (e.g. developed energy reduction plan for all corporate buildings)
<b>Actions Taken this Year</b>	<ul style="list-style-type: none"> <li>&gt; <i>Detailed Energy Studies (lighting and mechanical) completed for both Public Safety Building and Public Works Yard.</i></li> <li>&gt; <i>Continuous Optimization Project at Meadow Park Sports Centre (BC Hydro-supported)</i></li> <li>&gt; <i>Design and evaluation of heat recovery system at the Whistler Compost Facility</i></li> <li>&gt; <i>Design and evaluation of on-demand process water heating at WWTP Primary Building</i></li> <li>&gt; <i>Evaluation of SolarWall installation for WWTP Primary Building</i></li> <li>&gt; <i>Evaluation of potential for improved heat trace control system on key public space snow melt systems</i></li> </ul>
<b>Proposed Actions for Next Year</b>	<ul style="list-style-type: none"> <li>&gt; <i>Energy Study evaluation at Maurice Young Millennium Place</i></li> <li>&gt; <i>Control system optimization at MPSC</i></li> <li>&gt; <i>Detailed integrated third party energy assessment for WWTP Primary Building</i></li> <li>&gt; <i>Evaluating the opportunity to leverage the GCC Option 1 framework for the heat recovery (and adjacent building heating) project at Compost Facility</i></li> </ul>
<b>Action Type</b>	<i>Energy Generation</i> (e.g. undertook feasibility study of green energy generation for civic buildings)
<b>Actions Taken this Year</b>	> <i>Evaluated passive solar heating of make up air (SolarWall) for WWTP Primary Building</i>
<b>Proposed Actions for Next Year</b>	> <i>Evaluating opportunity to expand current GHX heat beyond pool heating loads to pre-heat domestic hot water during periods of low solar thermal gain</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>	<ul style="list-style-type: none"> <li>&gt; Continue to support and host BC Transit Hydrogen Bus pilot project</li> <li>&gt; Participate on electric vehicle working group with Province</li> <li>&gt; Expanding use of video/web conferencing across municipal operation</li> <li>&gt; Two week Community-wide Commuter Challenge including a business-to-business challenge between RMOW, WB &amp; TW</li> </ul>

### Direct Corporate Actions

<b>Action Type</b>	<i>Building and Lighting (e.g. energy efficiency retrofits to municipal buildings )</i>
<b>Actions Taken this Year</b>	<ul style="list-style-type: none"> <li>&gt; Municipal Hall EE relamping installation.</li> <li>&gt; LED lighting upgrade in Lost Lake Passivhaus</li> <li>&gt; Installation of a heating system lock-out system on bay doors at PWY</li> </ul>
<b>Proposed Actions for Next Year</b>	<ul style="list-style-type: none"> <li>&gt; Installation of VFD controls on Compost System Blower fans</li> <li>&gt; EE upgrades at both PSB and PWY</li> <li>&gt; Installation of on-demand water heating for process water needs at WWTP Primary Building</li> <li>&gt; EE relamping at Whistler Re-Use-It Centre</li> </ul>

<b>Action Type</b>	<i>Energy Generation (e.g. implemented heat recovery systems, solar)</i>
<b>Proposed Actions for Next Year</b>	<ul style="list-style-type: none"> <li>&gt; Installation of heat recovery system at Whistler Compost Facility</li> </ul>

<b>Action Type</b>	<i>Fleet (e.g. anti-idling policies for fleet vehicles, purchasing of hybrid)</i>
<b>Actions Taken this Year</b>	<ul style="list-style-type: none"> <li>&gt; Installation of GPS tracking on key fleet vehicles</li> <li>&gt; Installation of 2nd electric vehicle charging station</li> </ul>



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

**Actions Taken this Year**     > installed waste piggy-back bins on desk recycling bins and removed waste bins

## Carbon Neutral Progress Reporting

	Tonnes CO2e
<b>Corporate emissions using SMARTTool or equivalent inventory tool</b>	<b>2290</b>
<b>Emissions from services delivered directly by the local government</b>	<b>2290</b>
<i>Emissions from contracted services</i>	0
<i>Less:</i>	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>	0
Household Organic Waste Composting	<b>0</b>
<i>Low Emissions Vehicles</i>	0
<i>Less:</i>	0
<b>GHG reductions being claimed for this reporting year from Option 2 - GHG reduction projects</b>	
<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>	

**2290**

**Less:**

Offsets purchased for this reporting year (Option 3)

**0**

**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)*

## Making Progress on Your Carbon Neutral Commitment

### Question

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.

### Answer

The RMOW has achieved carbon neutrality in respect of its operations as per the reporting included within our, "Whistler Energy Consumption & GHG Performance Trends - 2010 Annual Report" - <http://www.whistler.ca/residents/sustainability-environmental-protection/our-track-record-whistler%E2%80%99s-energy-performance>