

# Climate Action Revenue Incentive Program (CARIP) Public Report

## Climate Action Revenue Incentive (CARIP)

### Public Report for YEAR 2013

**FINAL VERSION**

*Resort Municipality of Whistler*

*Squamish Lillooet RD*



#### **Report Submitted by**

Ted Battiston  
Manager of Special Projects  
tbattiston@whistler.ca

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#### **General Information**

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

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## Community Wide Actions for 2013

### 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>	"We compile our own community-wide energy and emissions inventories annually. Access to a summary report based on the 2011 inventory can be accessed at:  <a href="http://www.whistler.ca/services/environmental-stewardship/climate-action-and-energy">http://www.whistler.ca/services/environmental-stewardship/climate-action-and-energy.</a> "

### 1.2 Plan

#### Community Wide Targets

<b>Question</b>	Does 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.
<b>Answer</b>	Yes
<b>Additional Information</b>	"Whistler Official Community Plan (2012)  Policy 8.4.1.1 Lead a community-wide effort to reduce total community GHG emissions to a level 33% lower than 2007 levels by 2020; 80% lower than 2007 levels by 2050; and 90% lower than 2007 levels by 2060."

## 1.3 Reduce

### Supportive Community Wide Actions

Action Type	Broad Planning
<b>Actions Taken this Year</b>	Began background research and best practice review of municipally-deployed energy incentive funding for commercial and residential sector
<b>Proposed Actions for Next Year</b>	Deploy municipal-level energy incentive program in Whistler.

Action Type	Building and Lighting
<b>Actions Taken this Year</b>	Green building policy already exists.
<b>Proposed Actions for Next Year</b>	Continue to use section 219 covenants to ensure higher levels of efficiency in key rezoning projects.

Action Type	Energy Generation
<b>Actions Taken this Year</b>	SHW-Ready already completed. Finalized district energy feasibility study for Whistler Village.

Action Type	Green Space
<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.

Action Type	Transportation
<b>Actions Taken this Year</b>	Integrated TDM policies into updated OCP. Executed on recommendations within EVSE planning and outreach strategy. Work with Province and BC Hydro on potential L3 DCFC station in Whistler Village.
<b>Proposed Actions for Next Year</b>	Expand Valley Trail network to support self-propelled commuting options.

Action Type	Waste
<b>Actions Taken this Year</b>	Developed municipal level solid waste management strategy
<b>Proposed Actions for Next Year</b>	Leverage MMBC and SWMS recommendation to decrease municipal waste flows, and increase TDR.

Action Type	Water/Sewer
<b>Actions Taken this Year</b>	Updated Municipal Water Conservation Strategy to evaluate ROI on a broad spectrum of conservation projects/initiatives.
<b>Proposed Actions for Next Year</b>	Execute on top recommendations in the updated Water Conservation Strategy. Develop a once-through cooling bylaw for Council consideration.

#### Direct Community Wide Actions

Action Type	Buildings
<b>Actions Taken this Year</b>	Integrate energy efficiency requirements as S219 covenants on key rezoning projects.
<b>Proposed Actions for Next Year</b>	Evaluate the potential inclusion of commercial buildings in efficiency-related incentive programs

Action Type	Energy Generation
<b>Actions Taken this Year</b>	Evaluate the DES Feasibility study for Whistler Village
<b>Proposed Actions for Next Year</b>	Evaluate the DES Feasibility study for Whistler Village

Action Type	Transportation
<b>Actions Taken this Year</b>	Continue to expand and support the growth of road cycling in Whistler (maintenance protocols, bike lanes, shoulder widths etc...)
<b>Proposed Actions for Next Year</b>	Continue to expand and support the growth of road cycling in Whistler (maintenance protocols, bike lanes, shoulder widths etc...). Install L3 DCFC Charger in Whistler Village.

Action Type	Waste
<b>Actions Taken this Year</b>	Introduce additional separation of plastics to decrease stream contamination at compactor sites.
<b>Proposed Actions for Next Year</b>	revise compactor sites to better align with new MMBC programs.

Action Type	Water/Sewer
<b>Actions Taken this Year</b>	Expand the unaccounted for water program to identify and address system leaks
<b>Proposed Actions for Next Year</b>	Continue to expand diagnostic systems for the unaccounted for water project. Expand enforcement of the Sprinkler bylaw

Action Type	Green Space
<b>Actions Taken this Year</b>	Support carbon offset project at CCF

## Corporate Actions for 2013

### 2.1 Measure

#### Corporate Measurement Actions

<b>Question</b>	What steps has your local government taken toward completing its corporate emissions inventory?
<b>Answer</b>	The RMOW has more than 8 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?
<b>Answer</b>	MS excel

### 2.2 Reduce

#### Supportive Corporate Actions

<b>Action Type</b>	Broad Planning
<b>Actions Taken this Year</b>	Continue to execute on RMOW Carbon Neutral Operations Plan
<b>Proposed Actions for Next Year</b>	Continue to execute on RMOW Carbon Neutral Operations Plan

<b>Action Type</b>	Building and Lighting
<b>Actions Taken this Year</b>	Evaluated multiple energy efficiency retrofit projects (ROI, IRR, NPV GHG reduction etc...)
<b>Proposed Actions for Next Year</b>	Continue to execute on RMOW Carbon Neutral Operations Plan. Undertaking process-load energy study at WWTP supported by BC Hydro.

Action Type	Energy Generation
<b>Actions Taken this Year</b>	Undertook coarse level review of PV panels for MPSC community centre

Action Type	Transportation
<b>Actions Taken this Year</b>	Tested electrical vehicle integration into municipal fleet.
<b>Proposed Actions for Next Year</b>	Continue annual support of Bike to Work week.

Action Type	Water/Sewer
<b>Proposed Actions for Next Year</b>	Undertake motor inventory for water and sewer system

#### Direct Corporate Actions

Action Type	Building and Lighting
<b>Actions Taken this Year</b>	Executed 3 lighting retrofits across municipal buildings with BC Hydro support. Installed CO sensors in underground parking areas to reduce run time on ventilation fans. Upgraded to advanced condensing boilers at MPSC.
<b>Proposed Actions for Next Year</b>	Additional lighting retrofits under consideration for parking areas. Upgrade process/blower systems at WWTP to reduce resource inputs (chemical/energy).

Action Type	Fleet
<b>Actions Taken this Year</b>	Tested electric vehicle integration into municipal fleet.
<b>Proposed Actions for Next Year</b>	Increase vehicle efficiency on all new vehicle purchases.



Action Type	Waste
<b>Proposed Actions for Next Year</b>	Expand MMBC integration across municipal infrastructure and systems.

## Carbon Neutral Progress Reporting

### 3.1 Carbon Neutral Progress Reporting

*(interim numbers are estimates – to be confirmed prior to Jun 2)*

Emissions/Offsets	Tonnes CO2e
<b>Annual corporate emissions using SMARTTool or equivalent inventory tool</b>	<b>1618</b>
<i>Emissions from services delivered directly by the local government</i>	<b>1454</b>
<i>Emissions from contracted services</i>	164
<b>Less:</b>	<b>0</b>
GHG reductions being claimed for this reporting year from Option 1 - GHG reduction project	
<i>Energy Efficient Building Retrofits and Fuel Switching</i>	
<i>Solar Thermal</i>	
<i>Household Organic Waste Composting</i>	
<i>Low Emissions Vehicles</i>	
<b>Less:</b>	<b>0</b>
GHG reductions being claimed for this reporting year from Option 2 - GHG reduction projects	
<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>	<b>0</b>
<b>Less:</b>	<b>1618</b>
<i>Offsets purchased for this reporting year (Option 3). Please identify your offset provider in the offset provider information section below.</i>	
<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>	<b>0</b>
<b>Additional "Option 2" Projects</b>	
<i>Option 2 Project C</i>	
<i>Option 2 Project D</i>	
<i>Option 2 Project E</i>	
<i>Option 2 Project F</i>	
<i>Option 2 Project G</i>	
<i>Option 2 Project H</i>	

### 3.2 Offset Provider Information

<b>Question</b>	Please Identify the name(s) of your offset provider(s) (Please answer below):
<b>Answer</b>	Cheakamus Community Forest - CCF Forest Based Offset Project.
<b>Question</b>	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):
<b>Answer</b>	No The CCF project is currently finalizing the project verification process (validation is complete). The RMOW intends to execute a purchase with the CCF once the third party audit process is complete (expected in the next 2-3 months).
<b>Question</b>	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.
<b>Answer</b>	As per above, the RMOW intends to maintain 100% carbon neutrality for the 2013 year.