

Climate Action Revenue Incentive (CARIP) Public Report for 2015

Local Government: Islands Trust



Report Submitted by:

Name: Cindy Shelest

Role: Director Administrative Services

Email: cshelest@islandstrust.bc.ca

Phone: 250-405-5150

Date: June 1, 2016

The Islands Trust has completed the 2015 Climate Action Revenue Incentive Program (CARIP) Public Report as required by the Province of BC. The CARIP report summarizes actions taken in 2015 and proposed for 2016 to reduce corporate and community-wide energy consumption and greenhouse gas emissions (GHG) and reports on progress towards achieving carbon neutrality. There is also an opportunity to report on climate adaptation actions.

2015 BROAD PLANNING ACTIONS

Broad Planning Actions

Broad planning refers to high level planning that sets the stage for GHG emissions reductions, including plans such as Official Community Plans, Integrated Community Sustainability Plans, Climate Action Plans or Community Energy Emissions Plans. Land use planning that focuses on Smart Growth principles (compact, complete, connected, centred) plays an especially important role in energy and GHG reduction.

Community-Wide Actions Taken in 2015	
Community-Wide Actions Proposed for 2016	

Corporate Actions Taken in 2015	
	Local Trust Committees continue to explore innovative ways of using new planning tools (Bill 27) to implement Official Community Plan policies that would reduce greenhouse gas emissions.
	The Salt Spring Island Local Trust Committee developed a draft amendment to the Piers Island Official Community Plan to include greenhouse gas emission targets, policies, and actions. This document is currently out for review.
	The Gabriola Island LTC designated the Gabriola Village Centre as a Development Permit Area for the purposes of establishing objectives for form and character, water conservation and reduction of greenhouse gas emissions. This designation will help ensure that commercial development will be pedestrian oriented, landscaped to conserve water resources and encourage fuel efficient vehicles and alternative modes of transportation.
Corporate Actions Proposed for 2016	
	The Salt Spring Island Local Trust Committee is looking at developing the Ganges Village Area Plan in 2016 which will report on issues related to density and growth in the Ganges core in order to reduce dependency on vehicle transportation.

Snapshot Questions	
What GHG reduction targets are included in your local government's Official Community Plan or Regional Growth Strategy?	N/A
Are you familiar with the Community Energy and Emission Inventory (CEEI)?	Yes

2015 BUILDINGS AND LIGHTING ACTIONS

Building and Lighting Actions

Low-carbon buildings use the minimum amount of energy needed to provide comfort and safety for their inhabitants and tap into renewable energy sources for heating, cooling and power. These buildings can save money, especially when calculated over the long term. This category also includes reductions realized from energy efficient street lights and lights in parks or other public spaces.

Not applicable to Islands Trust. Islands Trust support the work of regional districts with respect to building inspections. Islands Trust's office spaces are leased.

2015 ENERGY GENERATION ACTIONS

Energy Generation

A transition to renewable or low-emission energy sources for heating, cooling and power supports large, long-term GHG emissions reductions. Renewable energy including waste heat recovery (e.g. from biogas and biomass), geo-exchange, micro hydroelectric, solar thermal and solar photovoltaic, heat pumps, tidal, wave, and wind energy can be implemented at different scales, e.g. in individual homes, or integrated across neighbourhoods through district energy or co-generation systems.

Community-Wide Actions Taken in 2015	
	<p>During 2015, the Islands Trust has been one of the partners in the Lasqueti Community Integrated Energy Project, under the leadership of Doug Hopwood. This local solar power conversion project needed a local government partner to receive and administer \$343,000 from eight different sources of funding (from the BC Ministry of Energy and Mines and the Fraser Basin Council). This project involved the building and retro-fitting of renewable energy technology in existing and/or new buildings, including the False Bay School with two associated residences, the Judith Fischer Health Centre, a Last Resort Society Elder Cottage and the Lasqueti Internet Access Society. Previous energy sources were a diesel generator for electricity and propane for heat. Two photovoltaic (PV) systems with a total rating of over 55 kilowatts (kW) have now been installed with battery storage and grid-tie inverters alongside the diesel generator. Other partners involved in this project include Lasqueti Community Association, Last Resort Society, Solar BC, BC Sustainable Energy Association, Vancity Green Building Program, False Bay School students and PAC, School District 69, Natural Resources Canada, BC Ministry of Energy and Mines and the Fraser Basin Council.</p>
Community-Wide Actions Proposed for 2016	
	<p>The Lasqueti Community Integrated Energy Project was completed in March 2016.</p>



2015 GREENSPACE/ NATURAL RESOURCE PROTECTION ACTIONS

Greenspace/Natural Resource Protection refers to the creation of parks and greenways, boulevards, community forests, urban agriculture, riparian areas, gardens, recreation/school sites, and other green spaces, such as remediated brownfield/contaminated sites as well as the protection of wetlands, waterways and other naturally occurring features.

Community-Wide Actions Taken in 2015	
	The Trust Fund works with Island landowners, other conservation groups, foundations and governments to protect sensitive habitat across the islands.
Community-Wide Actions Proposed for 2016	
	The work of the Trust Fund Board is ongoing.



Corporate Actions Taken in 2015	
	The Trust Fund Board continues to protect mature and maturing forest through acquisition and covenant. The forests of the Islands Trust Area have been identified as having a high carbon storage capacity, with the potential to act as a major sink for carbon produced in the region. A full list of protected areas is available on the Trust Fund website: http://www.islandstrustfund.bc.ca/protected-places/places-protected-in-the-islands/full-list.aspx
	The Natural Area Protection Tax Exemption Program (NAPTEP) provides landowners with an annual 65% exemption on the property taxes for the portion of their property protected with a NAPTEP covenant. With the addition of Bowen Island Municipality in 2015, NAPTEP is now available throughout the Islands Trust Area.
	Planning staff work with corresponding regional districts to acquire parkland as part of any subdivision applications.
Corporate Actions Proposed for 2016	
	The above work is ongoing.

2015 SOLID WASTE ACTIONS

Solid Waste

Reducing, reusing, recycling, recovering and managing the disposal of the residual solid waste minimizes environmental impacts and supports sustainable environmental management, greenhouse gas reductions, and improved air and water quality.

Not applicable to Islands Trust. The regional districts in the Islands Trust area have responsibility for waste transfer and recycling. Several community groups have implemented programs to manage solid waste.

2015 TRANSPORTATION ACTIONS

Transportation

Transportation actions that increase transportation system efficiency, emphasize the movement of people and goods, and give priority to more efficient modes, e.g. walking, cycling, ridesharing, and public transit, can contribute to reductions in greenhouse gas emissions and more livable communities.

Community -Wide Actions Taken in 2015	
	Regional Districts and the Ministry of Transportation have responsibility for transportation on islands in the Islands Trust area. GERTIE bus RDN transportation service.
	The CRD Transportation Commission and several non-profits organizations have also initiated resources to support efficient modes of transportation that will contribute to reductions in greenhouse gas emissions. One example is the Gabriola Island GERTIE bus.
Community-Wide Actions Proposed for 2016	

Corporate Actions Taken in 2015	
	Several Local Trust Committees include the support and creation of walking and cycling paths through their subdivision and development application processes. The Gabriola Island LTC amended its Land Use Bylaw in 2015 to support reducing greenhouse gas emissions by incorporating new regulatory requirements for commercial areas, including: designated parking for bicycles, motorcycles and scooters; accommodation for electric vehicles and charging stations; increased landscaping and public open space requirements; integrated storm water management plans to reduce impervious cover, promote infiltration and capture and treat storm water runoff; and connections to pedestrian pathways.
	Islands Trust staff in our Salt Spring and Gabriola Island offices participated in the Bike to Work Week, setting up a refreshment station to bring community awareness to alternate transportation options (see photos below).
	The Executive Committee Acting as a Local Trust Committee (Ballenas-Winchelsea LTC) and the Lasqueti Island Local Trust Committee have amended their meeting procedure bylaws to allow electronic meetings, thereby reducing greenhouse gas emissions from travel. This adds to similar electronic meeting bylaws already in place for the all of Trust Council's standing committees, Salt Spring Island LTC and Gambier Island LTC.
	Islands Trust continues to be a member of both the Nanaimo and Victoria Car Share programs enabling staff to utilize this form of transportation.
Corporate Actions Proposed for 2016	
	The actions noted for 2015 have continued in 2016.

Bike to Work Week Celebration Station 2015 - Islands Trust Salt Spring Island Office



Bike to Work Week Refreshment Station 2016 - Islands Trust Gabriola Island Office



Snapshot Questions	
<p>Does your local government have policies, plans or programs to support:</p> <ul style="list-style-type: none"> • Walking • Cycling • Transit Use • Electric Vehicle Use • Other 	Yes
<p>Does your local government have a transportation demand management (TDM) strategy (e.g. to reduce single-vehicle occupancy trips, increase travel options, provide incentives to encourage individuals to modify travel behavior)?</p>	N/A
<p>Does your local government have policies, plans or programs to support local food production (thus reducing transportation emissions)?</p> <p>Island Farm Plans on a number of islands – strong policies to support agricultural production and work closely with the Agricultural Land Commission to support the integrity of agricultural land.</p>	Yes

2015 WATER AND WASTEWATER ACTIONS

Water and Wastewater

Managing and reducing water consumption and wastewater is an important aspect of developing a sustainable built environment that supports healthy communities, protects ecological integrity, and reduces greenhouse gas emissions.

Community-Wide Actions Taken in 2015	
	The Salt Spring Island Protection Authority (SSIWPA) was created to provide a coordinated governmental and agency approach to watershed management and the protection of fresh water resources on Salt Spring Island. It is comprised of government member agencies with responsibility and authority for the use and management of water resources and the watersheds in the Salt Spring Island Local Trust Area. In June 2013, the Salt Spring Island Local Trust Committee were awarded delegated powers by Trust Council to permit the LTC to undertake coordinated management of the several agencies recruited to collaborate on watershed management. This work has continued throughout 2015. SSIWPA members consist of government agencies that have responsibility for water and watershed management, the delivery of potable drinking water, or the assurance of safe drinking water, including, but not limited to: local and regional government organizations, First Nations, the provincial government, the federal government, health authorities and improvement districts.
Community-Wide Actions Proposed for 2016	
	The work related to the Salt Spring Island Protection Authority (SSIWPA) will continue in 2016.

Corporate Actions Taken in 2015	
	The Islands Trust Council has long been concerned about the issues of water quality and quantity on the islands of the Islands Trust Area. The Islands Trust does not have the jurisdiction to regulate water or wells. That is a provincial and regional district responsibility. Local trust committees can protect groundwater using land use planning tools. The Islands Trust also promotes sustainable water use and advocates on behalf of islanders for better provincial water legislation. The Islands Trust Council's strategic plan for the 2014-2018 term of office includes the objective to protect the quality and quantity of water resources and specifically to advocate for and educate about water conservation measures (e.g. rainwater catchment, greywater recycling).
	The Salt Spring Island Local Trust Committee completed a Water Demand Management Study which provided a lens to view future development potential.
Corporate Actions Proposed for 2016	
	Work on these initiatives will continue in 2016.

Snapshot Questions	
Does your local government have water conservation policies, plans or programs?	Yes

2015 CLIMATE CHANGE ADAPTATION ACTIONS

Climate Change Adaptation

For local governments, adaptation to a changing climate can take the form of changes in policy, management, technology and behaviour that minimize negative impacts or exploit opportunities. It can involve both “hard” and “soft” solutions, including: changes in infrastructure engineering, planning, zoning, bylaws, and public education.

Community-Wide Actions Taken in 2015	
Community-Wide Actions Proposed for 2016	

Corporate Actions Taken in 2015	
	Local Trust Committees have been working to increase setbacks from shorelines and focusing development away from areas with future flooding potential due to sea level rise.
Corporate Actions Proposed for 2016	
	The above work will be ongoing.

Snapshot Questions	
Are you aware of the Plan2Adapt guidance page on the BC Climate Action Toolkit ?	N/A
Are you aware of the <i>Preparing for Climate Change, An Implementation Guide for Local Governments in BC</i> on the BC Climate Action Toolkit ?	Yes
Have you visited the climate change adaptation guidance page on the BC Climate Action Toolkit ?	Yes

2015 OTHER CLIMATE ACTIONS

Other Climate Actions

This section provides local governments the opportunity to report other climate actions that are not captured in the categories above.

Community-Wide Actions Taken in 2015	
Community-Wide Actions Proposed for 2016	

Corporate Actions Taken in 2015	
Corporate Actions Proposed for 2016	

INNOVATION AND PEER-TO-PEER LEARNING

Innovation

This section provides the opportunity to showcase an innovative Corporate and/or Community-Wide reduction or adaptation activity that your local government has undertaken and that has had a significant impact or has the potential to have a significant impact. Projects included here may be featured as success stories on the B.C. Climate Action Toolkit and/or shared with other local governments to inspire further climate action. Please add links to additional information where possible.

Community-Wide Innovative Action
Corporate Innovative Action

Programs, Partnerships and Funding Opportunities

Local governments often rely on programs, partnerships and funding opportunities to achieve their climate action goals. Please share the names of programs and organizations that have supported your local government's climate actions by listing each entry in the appropriate box below.

Programs and Funding
Partners have been identified in the Community Action sections above.

2015 CARBON NEUTRAL REPORTING

Reporting Emissions

Did you measure your local government's corporate GHG emissions in 2015? (Yes/No)	Yes
If your local government measured 2015 corporate GHG emissions, please report the number of corporate GHG emissions (in tonnes of carbon dioxide equivalent) from services delivered <u>directly</u> by your local government:	58.77
If your local government measured 2015 corporate GHG emissions, please report the number of corporate GHG emissions (in tonnes of carbon dioxide equivalent) from <u>contracted</u> services:	
TOTAL A: CORPORATE GHG EMISSIONS FOR 2015	58.77 tCO₂e

Reporting Reductions and Offsets

To be carbon neutral, a local government must balance their TOTAL corporate GHG emissions by one or a combination of the following actions:

- undertake Option 1 Projects (GCC-supported)
- undertake Option 2 Projects (alternative) community GHG emissions reduction projects that meet project eligibility requirements
- purchase carbon offsets from a credible offset provider

If applicable, please report the 2015 GHG emissions reductions (in tonnes of carbon dioxide equivalent (tCO₂e)) being claimed from Option 1 GHG Reduction Projects:

OPTION 1 PROJECTS	REDUCTIONS
Energy Efficient Retrofits	
Solar Thermal	
Household Organic Waste Composting (see attached Project Plan)	136.3
Low Emission Vehicles	
Avoided Forest Conversion	
TOTAL B: REDUCTIONS FROM OPTION 1 PROJECTS FOR 2015	136.3 tCO₂e

If applicable, please report the names and 2015 GHG emissions reductions (in tonnes of carbon dioxide equivalent (tCO₂e)) being claimed from Option 2 GHG Reduction Projects:

OPTION 2 PROJECT NAME	REDUCTIONS
TOTAL C: REDUCTIONS FROM OPTION 2 PROJECTS FOR 2015	tCO₂e

If applicable, please report the number of offsets purchased (in tonnes of carbon dioxide equivalent (tCO₂e)) from an offset provider for the 2015 reporting year:
 (NOTE: DO NOT INCLUDE ANY FUNDS THAT MAY BE SET ASIDE IN A CLIMATE ACTION RESERVE FUND)

OFFSET PROVIDER	REDUCTIONS
TOTAL D: OFFSETS PURCHASED FOR 2015	tCO₂e

TOTAL REDUCTION AND OFFSETS FOR 2015 (Total B+C+D) = 136.3 tCO₂e

Corporate GHG Emissions Balance for 2015

Your local government's Corporate GHG Emissions Balance is the difference between total corporate GHG emissions (direct + contracted emissions) and the GHG emissions reduced through GCC Option 1 and Option 2 projects and/or the purchase of offsets.

CORPORATE GHG EMISSIONS BALANCE FOR 2015 = (A – (B+C+D)) = -77.53 tCO₂e

**If your Corporate GHG Emissions Balance is negative or zero,
 your local government is carbon neutral.
 CONGRATULATIONS!**

GCC CLIMATE ACTION RECOGNITION PROGRAM

Green Communities Committee (GCC) Climate Action Recognition Program

The joint Provincial-UBCM Green Communities Committee (GCC) is pleased to be continuing the Climate Action Recognition Program again this year. This multi-level program provides the GCC with an opportunity to review and publicly recognize the progress and achievements of each Climate Action Charter (Charter) signatory. Recognition is provided on an annual basis to local governments who demonstrate progress on their Charter commitments, according to the following:

Level 1 - Progress on Charter Commitments: for local governments who demonstrate progress on fulfilling one or more of their Charter commitments

Level 2 - Measurement: for local governments who have measured their Corporate GHG Emissions for the reporting year and demonstrate that they are familiar with the Community Energy and Emissions Inventory (CEEI)

Level 3 - Achievement of Carbon Neutrality: for local governments who achieve carbon neutrality in the reporting year.

Based on your local government's 2014 CARIP Public Report, please check the GCC Climate Action Recognition Program level that best applies:

<input type="checkbox"/>	Level 1 - Progress on Charter Commitments	
<input type="checkbox"/>	Level 2 - Measurement	
<input checked="" type="checkbox"/>	Level 3 - Achievement of Carbon Neutrality	X
<input type="checkbox"/>	Not Sure	

SUPPORT FOR BALANCING CREDITS BASED ON OPTION 1D: ORGANIC WASTE DIVERSION PROJECT



File: 5220-20
Greenhouse Gas Credits
Organics Waste Diversion (Project Profile 1D)

Option 1D: Organic Waste Composting Project Plan

Project Proponent Information	
Name of Local Government Project Proponent(s)	Provide the name of the local government(s) involved in the project and that will be claiming GHG reductions from the project under Option 1. <i>Capital/Regional District, District of Central Saanich, City of Colwood, Town of Esquimalt, District of Highlands, City of Langford, District of Matchoan, District of North Saanich, District of Oak Bay, District of Saanich, Town of Sidney, District of Sooke, City of Victoria, Town of View Royal, Islands Trust</i>
Project Designate appointed to sign off on Project Plan	Provide the name, phone and e-mail of the Project Designate duly authorized and having the legal capacity to sign off on this Template (e.g., CAO, CFO) Name: Rajat Sharma, Acting CFO Title: Chief Financial Officer (Acting), Finance and Technology Phone: 250-360-3011 Email: rsharma@ord.bc.ca
Project Contact	Provide a Project Contact name if different from above Name: Amanda Broad Title: Climate Action Program Coordinator (Acting) Phone: 250.360.3048 Email: abroad@ord.bc.ca
Project Information	
Project title	Provide project title Organic Waste Composting Project
Option 1 Project Profile	Confirm which Option 1 project and project profile you are implementing. Check only one per Project Plan Template submitted: <input type="checkbox"/> Project 1A: Low Emission Vehicles <input type="checkbox"/> Project 1B: Energy Efficient Building Retrofits and Fuel Switching <input type="checkbox"/> Project 1C: Solar Thermal <input checked="" type="checkbox"/> Project 1D: Household Organic Waste Composting <input type="checkbox"/> Project 1E: Avoided Forest Conversion Project (AFCP)
Project description and objectives	Briefly summarize the project in terms of what, where, how when and why (max 4-5 sentences or bullets). <ul style="list-style-type: none">- The CRD has implemented a kitchen scraps waste diversion program on behalf of the region.- In 2013, the CRD implemented an incentive program to encourage residents and businesses to divert their kitchen scraps from the landfill. The hauliers have been notified of the CRD's intention to claim the credits.- Approximately 6187 tonnes of additional kitchen scraps were diverted from the industrial, commercial, institutional, and private residential sector in 2015.
Project co-benefits (Optional)	Beyond the reducing GHG emissions, describe any anticipated community and/or sustainability co-benefits that this project will provide (e.g., energy cost savings, stimulation of the local economy through green job growth, faster technological innovation, raise public awareness of climate change/energy conservation) <ul style="list-style-type: none">- Raise public awareness of climate change and waste diversion.- Reduces amount of waste entering landfill, saving space.- Allows for better end use products of kitchen scraps (i.e. compost, soil amenders, etc.)
Project start date	Indicate the project start date: January 2013

