

Climate Action Revenue Incentive (CARIP) Public Report for 2017

Local Government: Islands Trust

Report Submitted by:

Name: Julia Mobbs

Role: Director Administrative Services

Email: jmobbs@islandstrust.bc.ca

Phone: 250.405.5150



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The Islands Trust has completed the 2017 Climate Action Revenue Incentive Program (CARIP) Public Report as required by the Province of BC. The CARIP report summarizes actions taken in 2017 and proposed for 2018 to reduce corporate and community-wide energy consumption and greenhouse gas emissions (GHG) and reports on progress towards achieving carbon neutrality.

2017 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 2017	
	All 13 local trust committees have targets and policies in the official community plans to mitigate climate change by reducing greenhouse gas emissions.
Community-Wide Actions Proposed for 2018	
	Keats, Gambier, Lasqueti and Mudge islands undertaking reviews of the official community plan, which will include review of targets and policies for GHG emission reduction.

Corporate Actions Taken in 2017	
	Local Trust Committees continue to review the impact on the environment when considering reports from staff on issues related to land-use planning. All staff reports provide information on the impact of the decision on climate change.
Corporate Actions Proposed for 2018	
	Continued review of environmental impact as part of land-use planning, as noted above.

Broad Planning	
What is (are) your current GHG reduction target(s)?	<p>Denman OCP – reduce GHG emissions 33% by 2020, and 85% by 2050 over 2007 levels</p> <p>Hornby OCP – reduce GHG emissions 25% by 2020 and 80% by 2050 over 2007 levels</p> <p>Lasqueti OCP – maintain GHG emissions at or below 50% of Canadian per capita average, to be verified in 2020 and 2050</p> <p>Gambier OCP – reduce GHG emissions 33% by 2020 and 85% by 2050 over 2007 levels</p> <p>Keats OCP – reduce GHG emissions 33% by 2020 and 85% by 2050 over 2007 levels</p> <p>Gambier Associated islands OCP - reduce GHG emissions 20% by 2020 and 85% by 2050 over 2007</p> <p>Gabriola OCP - reduce GHG emissions 33% by 2020 and 85% by 2050 over 2007 levels</p> <p>Mudge OCP – achieve per capita emissions 50% lower than Canadian average by 2020 and 2050</p> <p>DeCourcey OCP - achieve per capita emissions 50% lower than Canadian average by 2020 and 2050</p> <p>Thetis OCP - reduce GHG emissions 33% by 2020 and 85% by 2050 over 2007 levels</p> <p>Valdes RLUB (part 1) – no targets, policies to consider GHG emission reductions in developments</p> <p>Thetis Associated islands OCP – no targets, policies to minimise GHG emissions</p> <p>Ballenas Winchelsea OCP - achieve per capita emissions 50% lower than Canadian average by 2020 and 2050</p> <p>Galiano OCP - reduce GHG emissions 33% by 2020 from 2007 levels.</p> <p>Mayne OCP - reduce GHG emissions 33% by 2020 from 2007 levels.</p> <p>Saturna OCP - reduce GHG emissions 33% by 2020</p> <p>South Pender OCP – no targets, policies to consider during land development</p> <p>North Pender OCP - reduce GHG emissions 33% by 2020 from 2007 levels.</p> <p>North Pender Associated Islands OCP - achieve per capita emissions 50% lower than Canadian average by 2020 and 2050</p> <p>Salt Spring OCP - reduce GHG emissions 15% by 2015, 40% by 2020 and 85% by 2050 over 2007 levels</p> <p>Piers Island OCP – no target – commitment to reducing GHG emissions in development and cooperation with others</p>

Are you familiar with your community's community energy and emissions inventory (e.g. CEEI or another inventory)?	No
What plans, policies or guidelines govern the implementation of climate mitigation in your community?	
• Community Energy and Emissions (CEE) Plan	No
• Community- Wide Climate Action Plan	No
• Integrated Community Sustainability Plan	No
• Official Community Plan (OCP)	Yes
• Regional Growth Strategy (RGS)	No
• Do not have a plan	No
• Other:	No
Does your local government have a corporate GHG reduction plan?	Yes

2017 BUILDING 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.

This section is not applicable to Islands Trust.

2017 ENERGY GENERATION ACTIONS

Energy Generation Actions

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 2017	
	<p>No new actions in 2018, however, Islands Trust has written several publications on renewable energy which are available on our website including:</p> <ul style="list-style-type: none"> - Renewable Energy Technology in the Trust – Domestic Small Scale Wind Energy - Renewable Energy Technology in the Trust – Ocean Based Geo-Exchange Systems - Micro-Hydro Energy Systems

Community-Wide Actions Proposed for 2018	
	None.

Corporate Actions Taken in 2017	
	N/A

Corporate Actions Proposed for 2018	
	N/A

Energy Generation	
Is your local government developing, or constructing:	
• A district energy system	No
• A renewable energy system	No
Is your local government operating:	
• A district energy system	No
• A renewable energy system	No
Is your local government connected to a district energy system that is operated by another energy provider?	No
Are you aware of the Integrated Resource Recovery guidance page on the BC Climate Action Toolkit ?	Yes
Are you familiar with the 2017 " List of Funding Opportunities for Clean Energy Projects Led by First Nations and Local Governments ?"	Yes

2017 GREENSPACE/NATURAL RESOURCE PROTECTION ACTIONS

Greenspace 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 2017	
	The Islands Trust Fund continues to protect mature and maturing forests through acquisition and

	<p>covenants. The forests of the Islands Trust Area have a high carbon storage capacity, with the potential to act as a major sink for carbon produced in the region.</p> <p>In 2017-18, the Islands Trust Fund acquired the 16.6-hectare Fairyslippers Forest Nature Reserve on Thetis Island and protected 64 hectares of regenerating forest on Denman Island with a voluntary conservation covenant.</p> <p>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</p>
Community-Wide Actions Proposed for 2018	
	The work of the Islands Trust Fund is ongoing.

Corporate Actions Taken in 2017	
	Planning staff work with corresponding regional districts to acquire parkland as part of any subdivision application, and where possible and appropriate through rezoning applications.
Corporate Actions Proposed for 2018	
	The actions noted above are ongoing.

Greenspace	
Does your local government have urban forest policies, plans or programs?	Yes
Does your local government have policies, plans or programs to support local food production?	No

2017 SOLID WASTE ACTIONS

Solid Waste Actions

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.

This section is not applicable to Islands Trust. The regional districts in the Islands Trust area have responsibility for waste transfer and recycling. As members of the CRD Climate Action Inter-Municipal Working Group, Islands Trust is able to claim their share of the balancing credits from the Organic Waste Diversion Project Profile.

2017 TRANSPORTATION ACTIONS

Transportation Actions

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 2017	
	Regional Districts and the Ministry of Transportation have responsibility for transportation on islands in the Islands Trust area.
	The CRD Transportation Commission and several non-profit organizations have 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 2018	
	The actions noted above are ongoing.

Corporate Actions Taken in 2017	
	<p>Several Local Trust Committees include the support and creation of walking and cycling paths through their subdivision and development application processes.</p> <p>Islands Trust staff participate in Bike to Work Week.</p> <p>Islands Trust has implemented new electronic meeting technology which has increased the capacity for meeting attendees to participate remotely, reducing the amount of travel required by trustees and staff members.</p>
Corporate Actions Proposed for 2018	
	<p>The actions noted above will continue in 2018.</p> <p>Additionally, Islands Trust is looking to secure an Electric Vehicle for use by Salt Spring Island staff while engaging in business travel. This initiative will also provide an additional Electric Vehicle charging station to the Salt Spring Island community.</p>

Transportation	
Does your local government have policies, plans or programs to support:	
• Walking	Yes
• Cycling	Yes
• Transit Use	Yes
• Electric Vehicle Use	Yes
• Other (please specify)	N/A
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)?	N/A
Does your local government integrate its transportation and land use planning?	N/A

2017 WATER AND WASTEWATER ACTIONS

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 2017	
	<p>Islands Trust Council has identified Freshwater Sustainability as a Top Priority which has led to the creation of the Senior Freshwater Specialist temporary appointment position that was extended to March 2019. The Senior Freshwater Specialist is supporting the initiatives of the BC <i>Water Sustainability Act (WSA)</i> that establishes a regulatory framework for water resource protection and sustainability in British Columbia.</p> <p>The success of the <i>Water Sustainability Act</i> in the Islands Trust Area is dependent on uptake by island communities which requires significant efforts in education and community outreach. During the spring and summer of 2017, Islands Trust coordinated a series of wells and groundwater workshops in partnership with Vancouver Coastal Health, Island Health and FLNRO throughout the Islands Trust area.</p> <p>The Salt Spring Island Local Trust Committee has identified Watershed Management as a top priority and with delegated coordination authority from Trust Council the Salt Spring Island Watershed Protection Alliance (SSIWPA) was formed in 2013 and has continued its mandate to provide a coordinated governmental and agency approach to watershed management and protection of fresh water resources on Salt Spring Island.</p>
Community-Wide Actions Proposed for 2018	
	<p>In 2018 the Senior Freshwater Specialist will continue to be a community leader in Freshwater Sustainability by working closely with community and government organization to promote the</p>

	establishment of groundwater rights, provide research for conservation methods, and to increase freshwater literacy in the Islands Trust Area.
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Corporate Actions Taken in 2017	
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	A Freshwater Specialist staff position was created and filled, to spearhead initiatives related to the protection of fresh water resources in the Islands Trust area.
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Corporate Actions Proposed for 2018	
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	The Freshwater Specialist position has been approved to continue working on the above noted actions for another year (fiscal year 2018/19).
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Water Conservation	
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Does your local government have water conservation policies, plans or programs?	Yes
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2017 CLIMATE CHANGE ADAPTATION ACTIONS

This section of the CARIP survey is designed to collect information related to the types of climate impacts local governments are experiencing and how they are being addressed.

Please identify the THREE climate impacts that are most relevant to your Local Government.	
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|--|---|
| <ul style="list-style-type: none"> • Warmer winter temperatures reducing snowpack • Changes to temperature and precipitation causing seasonal drought • Heatwaves impacting population health • Increased temperatures increasing wildfire activity • Increased temperatures affecting air quality • Changing temperatures influencing species migration and ecosystem shifts • Extreme weather events contributing to urban and overland flooding • Sea level rise and storms causing coastal flooding and/or erosion | <ul style="list-style-type: none"> ✓ ✓ ✓ |
|--|---|

Other: N/A	
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In 2017 has your local government addressed the impacts of a changing climate using any of the following?	
Risk and Vulnerability Assessments	No
Risk Reduction Strategies	No
Emergency response planning	No
Asset management	No
Natural/Eco asset management strategies	No
Infrastructure upgrades (e.g. storm water system upgrades)	No
Beach Nourishment projects	No
Economic diversification initiatives	No
Strategic and financial planning	No
Cross-department working groups	No
OCP policy changes	Yes
Changes to zoning and other bylaws and regulations	Yes
Incentives for property owner (e.g. reducing storm water run-off)	No
Public education and awareness	No
Research	No
Mapping	No
Partnerships	No
Other: N/A	

Climate Change Adaptation Actions Taken in 2017	
Please elaborate on key actions and/or partnerships your local government has engaged in to prepare for, and adapt to a changing climate. Add links to key documents and information where appropriate.	
	None.
Climate Change Adaptation Actions Proposed for 2018	
	Exploring possibility identifying most at risk locations in the Trust Area from Sea-level rise, and possible mapping products, subject to Council approval. Trust Council will hold an education session in March 2018 on climate change adaptation.
For more information please contact:	
	Victoria Main Office: 250.405.5151

The following are key resources that may be helpful to your local government in identifying climate impacts, as well as, strategies, actions and funding to deal with them. For those resources that you have used, please indicate whether they were useful in advancing your work in climate change adaptation?	
Indicators of Climate Change for British Columbia, 2016 Plan2Adapt Climate Projections for Metro Vancouver Climate Projections for the Capital Region Climate Projections for the Cowichan Valley Regional District Province of BC's BC Adapts Video Series Preparing for Climate Change: An Implementation Guide for Local Governments The Public Infrastructure and Engineering Vulnerability Committee's (PIEVC) protocol Sea Level Rise Primer BC Regional Adaptation Collaborative Webinars www.ReTooling.ca Water Balance Model The Water Conservation Calculator Funding: National Disaster Mitigation Program (NDMP) Community Emergency Preparedness Fund (CEPF) Municipalities for Climate Innovation Program (MCIP) Climate Adaptation Partner Grants (FCM) Infrastructure Planning Grants (MAH) Federal Gas Tax Fund	Haven't Used Haven't Used Haven't Used Useful Useful Useful Useful Haven't Used Useful Haven't Used Haven't Used Haven't Used Useful Haven't Used Haven't Used Haven't Used Haven't Used Haven't Used Haven't Used
Other:	

2017 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 2017	
	None
Community-Wide Actions Proposed for 2018	
	None

Corporate Actions Taken in 2017	
	Replacement of office windows has provided increased energy efficiency in the Victoria office space.
Corporate Actions Proposed for 2018	
	Office renovation may improve efficiency of the main office space.

Other	
Are you familiar with the Community Lifecycle Infrastructure Costing Tool (CLIC) ?	Yes
Have you used CLIC?	No

INNOVATION AND PEER-TO-PEER LEARNING

Innovation

This section provides the opportunity to showcase an innovative Corporate and/or Community-Wide GHG reduction and/or climate change adaptation activity that your local government has undertaken and that has had, or has the potential to have, a significant impact. You are welcome to repeat an action that has already been listed.

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.

Communities that have conducted innovative initiatives may want to consider raising their profile through applications to [CEA's Climate and Energy Action Awards](#), [UBCM Climate and Energy Action Award](#), [FCM Sustainable Communities Awards](#) or through submissions to [FCM's National Measures Report](#).

Community-Wide Action
N/A
For more information contact:

Corporate Action
N/A
For more information contact:

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 box below.

Mitigation

Programs and Funding
N/A

Adaptation

Programs and Funding
N/A

2017 CARBON NEUTRAL REPORTING

Local governments are required to report on their progress in achieving their carbon neutral goal under the Climate Action Charter. Working with B.C. local governments, the joint Provincial-UBCM Green Communities Committee (GCC) has established a common approach to determining carbon neutrality for the purposes of the Climate Action Charter, including a Carbon Neutral Framework and supporting guidance for local governments on how to become carbon neutral.

Prior to completing this portion of the survey, please ensure that you are familiar with guidance available on the B.C. Climate Action Toolkit website, especially the [Becoming Carbon Neutral: A Guide for Local Governments in British Columbia](#).

Please note: As a result of the BC Recycling Regulation, local governments are no longer required to account for greenhouse gas (GHG) emissions from vehicles, equipment and machinery required for the collection, transportation and diversion of packaging and printed paper, in their annual Climate Action Revenue Incentive Program (CARIP) reports.

Reporting Emissions

Did you measure your local government's corporate GHG emissions in 2017?	Yes
If your local government measured 2017 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:	57.98
If your local government measured 2017 corporate GHG emissions, please report the number of corporate GHG emissions (in tonnes of carbon dioxide equivalent) from <u>contracted</u> services:	N/A
TOTAL A: CORPORATE GHG EMISSIONS FOR 2017	57.98 tCO₂e

Reporting Reductions and Offsets

To be carbon neutral, a local government must balance their TOTAL corporate GHG emissions generated in 2017 by one or a combination of the following actions:

- undertake GCC-supported Option 1 Project(s)
- undertake GCC-supported Option 2 Project(s)
- purchase carbon offsets from a credible offset provider

If applicable, please report the 2017 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	91.4
Low Emission Vehicles	
Avoided Forest Conversion	
TOTAL B: REDUCTIONS FROM OPTION 1 PROJECTS FOR 2017	91.4 tCO₂e

If applicable, please report the names and 2017 GHG emissions reductions (in tonnes of carbon dioxide equivalent (tCO₂e)) being claimed from Option 2 GHG Reduction Projects:

OPTION 2 PROJECT NAME	REDUCTIONS
N/A	
TOTAL C: REDUCTIONS FROM OPTION 2 PROJECTS FOR 2017	tCO₂e

If applicable, please report the name of the offset provider, type of project and number of offsets purchased (in tonnes of carbon dioxide equivalent (tCO₂e)) from an offset provider for the 2017 reporting year:

(NOTE: DO NOT INCLUDE ANY FUNDS THAT MAY BE SET ASIDE IN A CLIMATE ACTION RESERVE FUND)

OFFSET PROVIDER NAME	OFFSETS
N/A	
TOTAL D: OFFSETS PURCHASED FOR 2017	tCO₂e

TOTAL REDUCTIONS AND OFFSETS FOR 2017 (Total B+C+D) = 91.4 tCO₂e

Corporate GHG Emissions Balance for 2017

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 2017 = (A – (B+C+D)) = -33.42 tCO₂e

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

CONGRATULATIONS!

If applicable, please record any emissions reductions you will be carrying over for future years and the source of the emissions reductions, including the year they were earned (E.g., Organics diversion, 2016 100 tCO₂e).

SOURCE OF CARRY OVER EMISSION REDUCTIONS (and year earned)	REDUCTIONS
Household Organic Waste Composting, 2017	33.42 tCO ₂ e
Household Organic Waste Composting, 2016	77.0 tCO ₂ e
Household Organic Waste Composting, 2015	77.53 tCO ₂ e
BALANCE OF REDUCTIONS ELIGIBLE FOR CARRY OVER TO NEXT YEAR	110.42 tCO₂e

Carbon Neutral Reporting	
Does your local government have a climate reserve fund or something similar?	No

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 – Demonstrating Progress on Charter Commitments: for local governments who demonstrate progress on fulfilling one or more of their Charter commitments

Level 2 – Measuring GHG Emissions: for local governments that achieve level 1, and who have measured their Corporate GHG Emissions for the reporting year and demonstrate that they are familiar with their community’s energy and emissions inventory (i.e. CEEI)

Level 3 – Accelerating Progress on Charter Commitments: for those local governments who have achieved level 1 and 2 and have demonstrated undertaking significant action (corporately or community wide) to reduce GHG emissions in the reporting year (i.e: through undertaking a GHG reduction project, purchasing offsets, establishing a reserve fund).

Level 4 - Achievement of Carbon Neutrality: for local governments who achieve carbon neutrality in the reporting year.

For purposes of Level 3 recognition, if applicable, please identify any new or ongoing corporate or community wide GHG reduction projects (other than an Option 1 or Option 2 project) undertaken by your local government that reflects a significant investment of time or financial resources and is intended to result in significant GHG reductions:

PROJECT NAME:
N/A

Based on your local government's 2017 CARIP Climate Action/Carbon Neutral Progress Survey, please check the GCC Climate Action Recognition Program level that best applies:

<input type="checkbox"/>	Level 1 – Demonstrating Progress on Charter Commitments	
<input type="checkbox"/>	Level 2 – Measuring GHG Emissions	
<input type="checkbox"/>	Level 3 – Accelerating Progress on Charter Commitments	
<input type="checkbox"/>	Level 4 - Achievement of Carbon Neutrality	
<input type="checkbox"/>	Not Sure	