# Climate Action Revenue Incentive (CARIP) Public Report for 2017

#### **Local Government:**

Report Submitted by: Town of Sidney

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The Town of Sidney 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		
	Active and Safe Routes to School Program for Sidney Elementary to encourage walking and cycling.	
	Town of Sidney purchased two vehicles and became corporate members of the Modo car share cooperative.	
Coı	mmunity-Wide Actions Proposed for 2018	
	None	
Coı	porate Actions Taken in 2017	
	None	
Coı	porate Actions Proposed for 2018	
	None	

Broad Planning	
What is (are) your current GHG	15% by 2020, 30% by 2030 and 80% by 2050
reduction target(s)?	

Are you familiar with your community's community energy and emissions inventory (e.g. CEE or another inventory)?	Yes
What plans, policies or guidelines govern the implementation of climate mitigation in your	
community?	
Community Energy and Emissions (CEE) Plan	Yes
Community- Wide Climate Action Plan	Yes
Integrated Community Sustainability Plan	No
Official Community Plan (OCP)	Yes
Regional Growth Strategy (RGS)	Yes
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.

Coi	Community-Wide Actions Taken in 2017		
	None		
Coi	mmunity-Wide Actions Proposed for 2018		
	None		

Coi	Corporate Actions Taken in 2017		
	Replace streetlights with LED lamps.		
Coi	Corporate Actions Proposed for 2018		


# Building and Lighting The Province has committed to taking incremental steps to increase energy-efficiency requirements in the BC Building Code to make buildings net-zero energy ready by 2032. The BC Energy Step Code--a part of the BC Building Code--supports that effort Is your local government aware of the BC Energy Step Cost? Is your local government implementing the BC Energy Step Code? Yes

#### **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.

Coi	Community-Wide Actions Taken in 2017		
	None		
Coi	mmunity-Wide Actions Proposed for 2018		
	None		

Cor	Corporate Actions Taken in 2017	
	Designed a 30Kw solar power array.	

Cor	porate Actions Proposed for 2018
	Construction of a 30Kw solar power array (complete March 2018)

Energy Generation	
Is your local government developing, or constructing:	
A district energy system	No
A renewable energy system	Yes
Is your local government operating:	
A district energy system	No
A renewable energy system	Yes
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 <u>BC Climate Action</u> <u>Toolkit</u> ?	No
Are you familiar with the 2017 "List of Funding Opportunities for Clean Energy Projects Led by First Nations and Local Governments?"	No

# **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.

Coi	Community-Wide Actions Taken in 2017		
	Worked with the local airport and Transport Canada to develop contamination clean-up plans for		
	Reay Creek Pond.		

Coı	Community-Wide Actions Proposed for 2018		
	Continue working towards the clean-up of Reay Creek Pond		
Coı	porate Actions Taken in 2017		
	None		
Coı	porate Actions Proposed for 2018		
	Develop an Urban Forestry Plan		
Gre	enspace		
Do	es your local government have urban forest policies, plans or programs?	Yes	
Do	es your local government have policies, plans or programs to support local food	No	
pro	duction?		
2	2017 SOLID WASTE ACTIONS		
	.017 SOLID WASTE ACTIONS		
So	lid Waste Actions		
Red	ducing, reusing, recycling, recovering and managing the disposal of the residual solid waste n	ninimizes	
	environmental impacts and supports sustainable environmental management, greenhouse gas		
reu	uctions, and improved air and water quality.		
Cor	mmunity-Wide Actions Taken in 2017		
	Continue to collect separated kitchen organics		
Cor	mmunity-Wide Actions Proposed for 2018		
-01			

	Continue to collect separated kitchen organics		
Co	rporate Actions Taken in 2017		
	None		
•			
Co	rporate Actions Proposed for 2018		
	None		
Sol	id Waste		
Do	es your local government have construction and demolition waste reduction policies, plans	No	
or	programs?		
Do	es your local government have organics reduction/diversion policies, plans or programs?	Yes	
2	2017 TRANSPORTATION ACTIONS		
	1017 MANSI ONTATION ACTIONS		
Tu	answertation Actions		
	ansportation Actions	_	
	insportation actions that increase transportation system efficiency, emphasize the movemen		
-	ople and goods, and give priority to more efficient modes, e.g. walking, cycling, ridesharing, a		
pul	public transit, can contribute to reductions in greenhouse gas emissions and more livable communities.		
Community, Wide Actions Taken in 2017			
Co	Community -Wide Actions Taken in 2017  Constructed new bus shelters to encourage transit use		
	Constructed new bus shelters to encourage transit use		
Co	Community-Wide Actions Proposed for 2018		
	None		

Coı	rporate Actions Taken in 2017	
	Developed a bike storage room for staff at Town Hall to encourage cycle commuting	
Coı	rporate Actions Proposed for 2018	
	None	
Tra	Insportation	
	es your local government have policies, plans or programs to support:	
	Walking	Yes
	• Cycling	Yes
	• Transit Use	Yes
	Electric Vehicle Use	Yes
	Other (please specify)	No
	other (preuse speen)	
Do	es your local government have a transportation demand management (TDM) strategy (e.g.	No
	reduce single-vehicle occupancy trips, increase travel options, provide incentives to	
end	courage individuals to modify travel behavior)?	
Do	es your local government integrate its transportation and land use planning?	Yes
2	2017 WATER AND WASTEWATER ACTIONS	
Ma	naging and reducing water consumption and wastewater is an important aspect of developi	ng a
sus	tainable built environment that supports healthy communities, protects ecological integrity,	, and
	luces greenhouse gas emissions.	
	0. 22	
Cor	mmunity-Wide Actions Taken in 2017	
	None	

Coı	mmunity-Wide Actions Proposed for 2018
	None
Coı	porate Actions Taken in 2017
Coı	porate Actions Proposed for 2018
14/2	ter Conservation
טט	es your local government have water conservation policies, plans or programs?  No

# **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.

- Heatwaves impacting population health
- Extreme weather events contributing to urban and overland flooding
- Sea level rise and storms causing coastal flooding and/or erosion

Other: n/a

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	Yes
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	No
Changes to zoning and other bylaws and regulations	No
Incentives for property owner (e.g. reducing storm water run-off)	No
Public education and awareness	No
Research	No
Mapping	Yes
Partnerships	No
Other:	

Clir	mate Change Adaptation Actions Taken in 2017	
Ple	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.	
	Adopted interim sea level rise/flood hazard policy for new development	
Clir	mate Change Adaptation Actions Proposed for 2018	
	Implementation of New BC Flood Management Guidelines	
For	more information please contact:	

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	Haven't Used
Plan2Adapt	Haven't Used
Climate Projections for Metro Vancouver	Haven't Used
Climate Projections for the Capital Region	Useful
Climate Projections for the Cowichan Valley Regional District	Haven't Used
Province of BC's BC Adapts Video Series	Haven't Used
Preparing for Climate Change: An Implementation Guide for Local Governments	Useful
The Public Infrastructure and Engineering Vulnerability Committee's (PIEVC) protocol	Haven't Used
Sea Level Rise Primer	Useful
BC Regional Adaptation Collaborative Webinars	Haven't Used
www.ReTooling.ca	Haven't Used
Water Balance Model	Useful
The Water Conservation Calculator	Haven't Used
Funding:	
National Disaster Mitigation Program (NDMP)	Haven't Used
Community Emergency Preparedness Fund (CEPF)	Haven't Used
Municipalities for Climate Innovation Program (MCIP)	Haven't Used
Climate Adaptation Partner Grants (FCM)	Haven't Used
Infrastructure Planning Grants (MAH)	Haven't Used
<u>Federal Gas Tax Fund</u>	Useful
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.

Co	Community-Wide Actions Taken in 2017		
	None		
Co	Community-Wide Actions Proposed for 2017		
	None		

Coı	Corporate Actions Taken in 2017		
	None		
Coı	porate Actions Proposed for 2017		
	None		

Other	
Are you familiar with the Community Lifecycle Infrastructure Costing Tool (CLIC)?	No
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 <u>CEA's Climate and Energy Action Awards</u>, <u>UBCM Climate and Energy Action Awards</u>, <u>FCM Sustainable Communities Awards</u> or through submissions to <u>FCM's National Measures Report</u>.

Community-Wide Action
None
For more information contact:  Corporate Action
Corporate Action
None
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
Willigation
Programs and Funding
None
Notice
Adaptation
Programs and Funding
None

#### 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 <u>Becoming Carbon Neutral: A Guide for Local Governments in British Columbia.</u>

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	S
If your local government measured 2017 corporate GHG emissions, please report the	311.25	
number of corporate GHG emissions (in tonnes of carbon dioxide equivalent) from		
services delivered <u>directly</u> by your local government:		
If your local government measured 2017 corporate GHG emissions, please report the	35.35	
number of corporate GHG emissions (in tonnes of carbon dioxide equivalent) from		
<u>contracted</u> services:		
TOTAL A: CORPORATE GHG EMISSIONS FOR 2017	346.60	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	346.60	
Low Emission Vehicles		
Avoided Forest Conversion		
TOTAL B: REDUCTIONS FROM OPTION 1 PROJECTS FOR 2017	346.60	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) = 346.60 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)) = 0 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
2017 CRD ICI/Private Hauler	69.80
2017 Organics Diversion (Yard Waste & Kitchen Organics)	334.50
2016 CRD ICI/Private Hauler	103.40
2016 Organics Diversion (Yard Waste & Kitchen Organics)	374.30
2015 Organics Diversion (Yard Waste & Kitchen Organics)	99.52
BALANCE OF REDUCTIONS ELIGIBLE FOR CARRY OVER TO NEXT YEAR	981.52 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:

	Level 1 – Demonstrating Progress on Charter Commitments	
	Level 2 – Measuring GHG Emissions	
	Level 3 – Accelerating Progress on Charter Commitments	
	Level 4 - Achievement of Carbon Neutrality	x
	Not Sure	