

# Climate Action Revenue Incentive Program (CARIP) Public Report for 2014

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## The District of Oak Bay



The District of oak Bay has completed the 2014 Climate Action Revenue Incentive Program (CARIP) Public Report as required by the Province of BC. The CARIP report summarizes actions taken in 2014 and proposed for 2015 to reduce corporate and community-wide energy consumption and greenhouse gas emissions (GHG), as well as general sustainability related initiatives.

### Report Submitted by

Patricia Walker  
Treasurer  
[pwalker@oakbay.ca](mailto:pwalker@oakbay.ca)

## LOCAL GOVERNMENT INFORMATION

Name of Local Government	Oak Bay, The Corporation of the District of
Name of member Regional District (RD)	Capital
Regional Growth Strategy (RGS) in your region	Yes
Population	18,015 (2011 census)

## GENERAL REPORT INFORMATION

This 2014 Climate Action Revenue Incentive Program (CARIP) Public Report documents the actions that the District of Oak Bay has taken corporately and in the community to support the reduction of greenhouse gas (GHG) emissions and energy use, as well as other sustainability related initiatives.

The actions are separated into seven main categories; Broad Planning, Buildings, Energy Generation, Greenspace, Solid Waste, Transportation and Water and Wastewater.

The categories are further divided into corporate and community related actions, with six required reporting areas.

This report encompasses a majority of the action items that the District is involved in to support GHG and energy reduction.. The report represents a “snapshot” of District activities over the past year, and proposed actions for 2015.

### Broad Planning

#### BROAD PLANNING

Broad Planning refers to the high level, strategic planning that sets the stage for GHG reductions.

Land use planning that focuses on Smart Growth principles (compact, complete, connected and centred) plays an especially important role in energy and GHG reduction. Plans that relate to a certain sector should be included in that sector, e.g. transportation plans in the 'Transportation' sector. In the appropriate boxes below, please record all corporate and community-wide actions taken in 2014 and proposed for 2015. Number and type of actions will vary by community. Please refer to the 'Action Examples' tab above for assistance in understanding the type of information to include in each action category. If the action was taken in partnership, please indicate with whom.

Since initially establishing OCP targets, policies, and actions for the reduction of greenhouse gas (GHG) emissions, as required by the Local Government Act, has your local government updated those targets, policies and actions?	No A revised OCP was adopted by Council during 2014. The new OCP continues to have the target of a 33% reduction in greenhouse gas emissions by 2020 compared to 2007 levels. Several recommended policies and actions are contained within the Climate Change and Energy section of the OCP.
Does your local government use the Community Energy and Emissions Inventory (CEEI) to measure progress?	No
Has your local government established Development Permit Areas (DPAs) for climate action (i.e. energy conservation, water conservation and/or GHG emission reduction)?	Yes

## CORPORATE - Broad Planning

	Actions taken in 2014	Actions proposed for 2015
Feasibility Studies, Research, Analysis		Carry out a waste heat recovery study at the Recreation Centre.
Plans, Policies, Regulations	Adopted a Strategic Energy Management Plan (SEMP), which will be updated annually. Council directed that energy consumption and GHG emissions must be considered when purchasing District vehicles and equipment.	Update the SEMP. As directed in the OCP, start to review policies and procedures related to energy and climate change.
Policy Implementation	Development of corporate energy policy.	Update energy policy as required.
Employee Training, Awareness	Energy management workshops, put on through BC Hydro	Energy management workshops, put on through BC Hydro
Committees, Staffing	Corporate Energy Manager	Energy Manager consultant
Funding	BC Hydro incentives	BC Hydro incentives Municipal Green Fund

## COMMUNITY-WIDE - Broad Planning

	Actions taken in 2014	Actions proposed for 2015
Feasibility Studies, Research, Analysis	Revision of the OCP was completed.	
Plans, Policies, Regulations	Adoption by Council of the OCP.	Work towards the goals and targets contained in the OCP.
Policy Implementation		
Community Education, Engagement		
Committees, Staffing	Environmental Advisory Committee. Active Transportation Advisory Committee. OCP Project Advisory Committee.	Proposed new Advisory Planning Committee, which will have a mandate that includes addressing community planning issues of active transportation and environmental sustainability. This new committee will be supported by a staff Planner.
Funding		

## Buildings

### BUILDINGS

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 viewed over the long term. In the appropriate boxes below, please record all corporate and community-wide actions taken in 2014 and proposed for 2015. Number and type of actions will vary by community. Please refer to the 'Action Examples' tab above for assistance in understanding the type of information to include in each action category. If the action was taken in partnership, please indicate with whom.

Does your local government have green building/construction policies, plans or programs?	No
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### CORPORATE - Buildings

	Actions taken in 2014	Actions proposed for 2015
Physical Improvements, Construction	Optimized the ventilation at the Muncipal Hall. Installation of more efficient exhaust fans at Henderson Recreation, which meet the reduced requirements. Lighting upgrades to LEDs at the Fire hall, Library and Recreation Centre.	Proposal to install REALice energy saving system for ice rink. Implement findings from the Continuous Optimization Program at the Recreation Centre. Continue to upgrade light at the Recreation Centre and the Monterey Centre parking lot.
Feasibility Studies, Research, Analysis	Continuous Optimization Program for the Recreation Centre	Feasibility study of using waste heat to power a heat pump and heat the lounge and change rooms at the Recreation Centre. Study of feasibility of using solar heating at Henderson Centre to heat water.
Plans, Policies, Regulations	Strategic Energy Management Plan (SEMP)	update SEMP
Policy Implementation	Development of Energy Policy	update Energy Policy as necessary
Employee Training, Awareness	Energy management workshops through BC Hydro	Energy management workshops through BC Hydro
Committees, Staffing	Corporate Energy Manger Recreation Energy Committee	Energy consultant Recreation Energy Committee
Funding	BC Hydro Municipal Green Fund	BC Hydro Municipal Green Fund

## COMMUNITY-WIDE - Buildings

	Actions taken in 2014	Actions proposed for 2015
Physical Improvements, Construction		
Feasibility Studies, Research, Analysis		
Plans, Policies, Regulations	Adoption of the revised OCP	
Policy Implementation		Work towards incorporating the recommendations within the OCP
Community Education, Engagement		
Committees, Staffing		
Funding		

## Energy Generation

### 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. In the appropriate boxes below, please record all corporate and community-wide actions taken in 2014 and proposed for 2015. Number and type of actions will vary by community. Please refer to the 'Action Examples' tab above for assistance in understanding the type of information to include in each action category. If the action was taken in partnership, please indicate with whom.

Has your local government undertaken district energy projects in 2014?	No
Has your local government undertaken renewable energy projects 2014?	No
Are you aware of the integrated resource recovery (IRR) guidance page on the BC Climate Action Toolkit? ( <a href="http://www.toolkit.bc.ca/tool/integrated-resource-recovery-irr">http://www.toolkit.bc.ca/tool/integrated-resource-recovery-irr</a> )	Yes

## CORPORATE - Energy Generation

Actions taken in 2014      Actions proposed for 2015

Physical Improvements, Construction	
Feasibility Studies, Research, Analysis	Study of feasibility of using solar heating at Henderson Centre.
Plans, Policies, Regulations	
Policy Implementation	
Employee Training, Awareness	
Committees, Staffing	
Funding	Municipal Green Fund

## COMMUNITY-WIDE - Energy Generation

Actions taken in 2014      Actions proposed for 2015

Physical Improvements, Construction	
Feasibility Studies, Research, Analysis	
Plans, Policies, Regulations	
Policy Implementation	
Community Education, Engagement	
Committees, Staffing	
Funding	

## Greenspace

### GREENSPACE

Greenspace refers to parks and greenways, boulevards, community forests, urban agriculture, riparian areas, gardens, recreation/school sites, and other green spaces, such as remediated brownfield/contaminated sites. Greenspaces support climate change mitigation (reducing emissions by absorbing and sequestering GHG) and adaptation (providing shade, cooling, deflecting strong wind, and improving air quality). In the appropriate boxes below, please record all community-wide actions taken in 2014 and proposed for 2015 (Note: the 'Greenspace' sector only has a community-wide actions section). Number and type of actions will vary by community. Please refer to the 'Action Examples' tab above for assistance in understanding the type of information to include in each action category. If the action was taken in partnership, please indicate with whom.

Does your local government have urban forest policies, plans or programs?

No

## COMMUNITY-WIDE - Greenspace

	Actions taken in 2014	Actions proposed for 2015
Physical Improvements, Construction	Planted 110 trees Restoration work carried out in the Uplands Park. Invasive species removal program was continued. Pruning of trees around hydro lines, thereby allowing them to continue standing.	Bowker Creek remediation work. Change to more efficient sprinklers. Continue invasive species removal program. Pruning of trees around hydro lines, thereby allowing them to continue standing.
Feasibility Studies, Research, Analysis	Planning improvements to Bowker Creek	
Plans, Policies, Regulations	Heritage plan includes green spaces	Urban Forest strategy Review and update Tree Protection Bylaw Work towards incorporating the recommendations within the OCP
Policy Implementation		
Community Education, Engagement	Several working groups	Working groups
Committees, Staffing	Green Committee, under the Parks and Recreation Commission	Various citizen groups
Funding	BC Hydro Re-greening grant Gas Tax Fund	Habitat stewardship protection program BC Hydro Gas Tax Fund

## Solid Waste

### 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. In the appropriate boxes below, please record all corporate and community-wide actions taken in 2014 and proposed for 2015. Number and type of actions will vary by community. Please refer to the 'Action Examples'

tab above for assistance in understanding the type of information to include in each action category. If the action was taken in partnership, please indicate with whom.

Does your local government have construction and demolition waste reduction policies, plans or programs?	Yes
Does your local government have organics reduction/diversion policies, plans or programs?	Yes

### CORPORATE - Solid Waste

	Actions taken in 2014	Actions proposed for 2015
Physical Improvements, Construction	Collection of organics at all municipal buildings	
Feasibility Studies, Research, Analysis		Review of the corporate recycling program to make it all encompassing.
Plans, Policies, Regulations		
Policy Implementation		Change recycling facility to fit the requirements of the new MMBC system
Employee Training, Awareness		
Committees, Staffing		
Funding		

### COMMUNITY-WIDE - Solid Waste

	Actions taken in 2014	Actions proposed for 2015
Physical Improvements, Construction	Collection of organics	
Feasibility Studies, Research, Analysis		
Plans, Policies, Regulations	Ban on kitchen scraps in the regular garbage stream (regional regulation)	
Policy Implementation		
Community Education, Engagement		
Committees, Staffing		

Funding

Taxes	Taxes
Funds from sale of recyclable items.	Funds from sale of recyclable items.

## Transportation

### 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. In the appropriate boxes below, please record all corporate and community-wide actions taken in 2014 and proposed for 2015. Number and type of actions will vary by community. Please refer to the 'Action Examples' tab above for assistance in understanding the type of information to include in each action category. If the action was taken in partnership, please indicate with whom.

Does your local government have policies, plans or programs to support alternative modes and technologies of transportation (e.g. walking, cycling, transit, electric vehicles)	Yes
Does your local government have a transportation demand management (TDM) strategy? ( <a href="http://www.toolkit.bc.ca/resource/transportation-demand-management-small-and-mid-sized-communities-toolkit">http://www.toolkit.bc.ca/resource/transportation-demand-management-small-and-mid-sized-communities-toolkit</a> )	Yes
Does your local government have policies, plans or programs to support local food production (thus reducing transportation emissions)?	Yes

### CORPORATE - Transportation

	Actions taken in 2014	Actions proposed for 2015
Physical Improvements, Construction		
Feasibility Studies, Research, Analysis	Motivations and Barriers to Active Transportation Survey	
Plans, Policies, Regulations		
Policy Implementation		
Employee Training, Awareness		
Committees, Staffing		
Funding		

## COMMUNITY-WIDE - Transportation

	Actions taken in 2014	Actions proposed for 2015
Physical Improvements, Construction	Continued program to install sidewalk ramps.Installed bus sheltersInstalled bike sheltersImproved bike lanes, especially at major intersection of Foul Bay and Lansdowne.	Bike signage upgradesContinued program to install sidewalk rampsInstall bus shelter at High School.Continue to improve bike lanes
Feasibility Studies, Research, Analysis		Require TDM studies to accompany new development proposals.
Plans, Policies, Regulations	Urban Design Plan	Develop sidewalk upgrade plan.Apply concepts from Urban Design Plan.Implement recommendations from Active Transportation survey.
Policy Implementation		Adopt and implement TDM strategies
Community Education, Engagement	Bike to Work Week	Bike FestivalBike to Work Week
Committees, Staffing	Active Transportation Advisory Committee	
Funding	ICBCGas Tax FundParticipactionBikeBC grant	

## Water and Wastewater

### 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.In the appropriate boxes below, please record all corporate and community-wide actions taken in 2014 and proposed for 2015. Number and type of actions will vary by community. Please refer to the 'Action Examples' tab above for assistance in understanding the type of information to include in each action category. If the action was taken in partnership, please indicate with whom.

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

Yes

## CORPORATE - Water and Wastewater

	Actions taken in 2014	Actions proposed for 2015
Physical Improvements, Construction	Program to modernize irrigation systems.	Continue program to modernize irrigation systems.
Feasibility Studies, Research, Analysis		
Plans, Policies, Regulations		
Policy Implementation		
Employee Training, Awareness		
Committees, Staffing		
Funding		

## COMMUNITY-WIDE - Water and Wastewater

	Actions taken in 2014	Actions proposed for 2015
Physical Improvements, Construction	Lining of pipes	Lining of pipes Continue storm water management program
Feasibility Studies, Research, Analysis	Review options available for the separation of the Uplands combined storm water/sewage system	Review the OCP recommendation of a rainwater management bylaw
Plans, Policies, Regulations	)	Finalize plans to separate Uplands combined storm water/sewage system; issue RFP
Policy Implementation		
Community Education, Engagement		
Committees, Staffing	Engineering Department representatives sit on joint committees with the Capital Regional District	Engineering Department representatives sit on joint committees with the Capital Regional District
Funding	Sewer and water usage fees and taxes	Sewer and water usage fees and taxes Gas Tax Fund

## Other Climate Actions

### OTHER CLIMATE ACTIONS

This section is intended to give local governments a chance to record other climate actions that could not be captured in the above sectors, including climate change adaptation actions and air quality actions. In the appropriate boxes below, please record all corporate and community-wide actions taken in 2014 and proposed for 2015. Number and type of actions will vary by community. Please refer to the 'Action Examples' tab above for assistance in understanding the type of information to include in each action category. If the action was taken in partnership, please indicate with whom.

Has your local government begun to integrate the impacts of a changing climate (adaptation) into its planning and operations?	Yes
Are you aware of the climate change adaptation guidance page on the BC Climate Action Toolkit? ( <a href="http://www.toolkit.bc.ca/adaptation-challenges-and-opportunities">http://www.toolkit.bc.ca/adaptation-challenges-and-opportunities</a> )	Yes

### CORPORATE - Other Climate Action

	Actions taken in 2014	Actions proposed for 2015
Physical Improvements, Construction	Memorial Tree program Some replacement of street lights with LEDs	Electronic agendas for all Council and Committee of the Whole meetings, reducing the requirement for a lot of paper
Feasibility Studies, Research, Analysis		Review low energy street lighting options: compare different types of bulbs, determine lighting requirements in different areas, cost to carry out replacement, develop a plan of how the project can be carried out.
Plans, Policies, Regulations		
Policy Implementation		
Employee Training, Awareness		
Committees, Staffing		
Funding		

## COMMUNITY-WIDE - Other Climate Action

Actions taken in 2014

Actions proposed for 2015

	Actions taken in 2014	Actions proposed for 2015
Physical Improvements, Construction		
Feasibility Studies, Research, Analysis		
Plans, Policies, Regulations		
Policy Implementation		
Community Education, Engagement		
Committees, Staffing		
Funding		

## Innovation

### CORPORATE - Innovation

Please describe any innovative corporate actions taken in 2014 and add links to additional information where possible.

Strategic Energy Management Plan [https:// www.oakbay.ca/municipal-hall/plans-reports/sustainability](https://www.oakbay.ca/municipal-hall/plans-reports/sustainability)

No Dig technology for pipe lining continues to be used wherever possible.