



Town of Ladysmith

Climate Action Revenue Incentive Program (CARIP) Public Reporting - Climate Actions Survey 2014

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.

	Yes	No	Please specify or comment
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?	False	True	(No response)

Variable	Response
Does your local government use the Community Energy and Emissions Inventory (CEEI)	Yes

to measure progress?

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	Created a Sustainability Progress Report template for reporting out on the actions in the Sustainability Action Plan. Researching indicator targets and status for objectives in the Sustainability Action Plan.	Report to the community on the progress of the Sustainability Action Plan.
Plans, Policies, Regulations	Economic Development Plan includes target sectors, encouraging local employment (one focus area is green industry)	Continue to encourage local employment through target sector marketing (including green industry)
Policy Implementation	Continued implementing Community Sustainability Plan, Energy Plan and Visioning	Continue with implementation of specific recommendations in Community Sustainability Plan, Community Energy Plan and Community Visioning
Employee Training, Awareness	Water Bucket Model training through CVRD	Council has indicated support for broad implementation of Sustainability Actions (subject to budget)
Committees, Staffing	Green Team Senior Management Team City Manager	Green Team Senior Management Team City Manager
Funding		

COMMUNITY-WIDE - Broad Planning

	Actions taken in 2014	Actions proposed for 2015
Feasibility Studies, Research, Analysis	Researched other communities Development Approval Information (DAI) Bylaws; Reviewed a Boundary Extension proposal under a "smart growth" lens (did not proceed), including watershed protection as a primary community goal.	Continue to seek out green development and incentives for environmentally sensitive business practices. Completed a Water Supply Study determining water supply needs for the next 50 years+.
Plans, Policies,	Adopted a new Zoning Bylaw that supports	Development Approval

Regulations	green initiatives, including alternative energy devices, urban agriculture & produce stands; landscape buffers & shade trees (heat island effect), parking options (bicycle, scooter, shared) and densification in and near the downtown.	Information (DAI) Bylaw. The draft bylaw includes a section on Climate Change impacts.
Policy Implementation	Adoption of new and updated Development Permit Area Guidelines including the introduction of guidelines to encourage energy conservation.	Presentation and renewal of Sustainability Plan in partnership with First Nations
Community Education, Engagement	Involved the public and stakeholders in the development of the new Zoning Bylaw. Produced information guides about Green Initiatives and Downtown Incentives in the new Zoning Bylaw.	Continue to use the Town's website to educate the public and developers about the type of development preferred in Ladysmith. Educated the public on our Community Water Supply System.
Committees, Staffing	Inter-departmental development team (planning, engineering and building) regularly discuss green initiatives.	Inter-departmental development team (planning, engineering and building) regularly discuss green initiatives.
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.

Variable	Response
Does your local government have green building/construction policies, plans or programs?	Yes

CORPORATE - Buildings

	Actions taken in 2014	Actions proposed for 2015
Physical Improvements, Construction	All new municipal buildings are built using at minimum LEED Silver guidelines. Upgraded mechanical and electrical systems at Frank Jameson Community Centre (our biggest energy consumer); installed high efficiency boilers, LED lights and occupancy sensors, computerized controls system to manage building systems, also improved efficiency boiler installed at Public Works.	All new municipal buildings built to minimum LEED silver guidelines
Feasibility Studies, Research, Analysis	Energy Retrofit report completed for FJCC	Condition and energy assessment reports to occur for all facilities, which will develop asset management program
Plans, Policies, Regulations	Continue energy reduction plans for all buildings.	building assessment as part of asset management; consider energy improvements for repairs
Policy Implementation	Reduced energy consumption in largest building in Town (FJCC);	Improve heat/cooling system at city hall (subject to budget)
Employee Training, Awareness	Staff trained with new energy efficient equipment at FJCC	Asbestos Training for building renovations.
Committees, Staffing		
Funding	Towns for Tomorrow grant	(No response)

COMMUNITY-WIDE - Buildings

	Actions taken in 2014	Actions proposed for 2015
Physical Improvements, Construction		
Feasibility Studies, Research, Analysis	Developed criteria for smart growth principles for proposed boundary expansion (did not proceed)	continue to promote energy efficient buildings in downtown and other areas
Plans, Policies,	Complete new development permit	implement new development

Regulations	guidelines.	permit guidelines
Policy Implementation	Promoted energy efficiency incentive programs; Supported private homeowners in building energy efficient homes; Provided	Promote energy efficiency incentive programs
Community Education, Engagement		
Committees, Staffing	Building inspector staff trained on update to building code, energy provisions 9.36 of BC Building Code.	
Funding	fund low flush toilet rebate in residential homes	fund low flush toilet rebate in residential homes

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.

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

CORPORATE - Energy Generation

	Actions taken in 2014	Actions proposed for 2015
Physical Improvements, Construction	Upgrade mechanical and electrical systems at Community Centre; install high efficiency boilers, LED lights and occupancy sensors, computerized controls system to manage building systems, also improved efficiency boiler installed at Public Works. Use of solar lighting in buildings, working with insurance provider to install in high priority areas.	PV panels, low energy fixtures, reclaimed water system to be installed at Sewage Treatment Plant.
Feasibility Studies, Research, Analysis		
Plans, Policies, Regulations		
Policy Implementation		
Employee Training, Awareness		
Committees, Staffing		
Funding		

COMMUNITY-WIDE - Energy Generation

	Actions taken in 2014	Actions proposed for 2015
Physical Improvements, Construction	New single-family homes are required to be solar hot water ready.	New single family homes required to be solar hot water ready
Feasibility Studies, Research, Analysis		
Plans, Policies, Regulations		
Policy Implementation		
Community Education, Engagement	provide information to homeowners through website and at building	provide information to homeowners through website and at building

	department	department
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.

Variable	Response
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	Tree planting program in various parks. Example Earth Day tree planting project in Gourlay-Jane park with cooperation from community groups such as girl guides. Continue to work with various community groups in invasive species management ensuring the community green spaces are healthy	Boulevard tree replacement program, replace tree which are diseased or have died with new trees. Continue with Earth Day tree program in the community parks. Continue to work with various community groups in invasive species management ensuring the community green spaces are healthy
Feasibility Studies, Research, Analysis	Continued work on acquisition of watershed lands and framework for boundary expansion.	Working with local regional district, forestry land owners and other stakeholders to manage watershed more effectively
Plans, Policies,		Plan to investigate invasive species

Regulations	policy/plan	
Policy Implementation		
Community Education, Engagement	Continued to use Town-owned properties for food production; Earth Day events including participating in regional Earth Day promotional event and locally with Brownies, planting trees; donated food grown in community gardens on town owned property to local food bank.	continue to use Town-owned properties for food production; Earth Day clean up planned of waterfront; donate locally grown food to local food bank.
Committees, Staffing		
Funding	Grant applications in place for tree replacement program	

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.

Variable	Response
Does your local government have construction and demolition waste reduction policies, plans or programs?	No
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	reconfiguration of public works yard to facilitate	Continued upgrade

Improvements, Construction	enhancement of community composting, construction of Truck Wash at Public Works.	of composting facilities
Feasibility Studies, Research, Analysis	investigated compost-multi-family and commercial	Composting studies
Plans, Policies, Regulations		
Policy Implementation	use of compost in soil used for town gardens	
Employee Training, Awareness	staff attended compost handling training	Composting Training
Committees, Staffing		Staffing of compost facility
Funding		

COMMUNITY-WIDE - Solid Waste

	Actions taken in 2014	Actions proposed for 2015
Physical Improvements, Construction	Support regional facility (provided soil for gardening)	Support regional facility (soil)
Feasibility Studies, Research, Analysis		
Plans, Policies, Regulations		
Policy Implementation	residential recycling and organic compost pick up; implemented new regulations of MMBC	continue to lead in efforts of recycling and organic pick up
Community Education, Engagement	Education of community on new MMBC requirements	Education of community on new MMBC requirements
Committees, Staffing		
Funding		

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.

Variable	Response
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? (http://www.toolkit.bc.ca/resource/transportation-demand-management-small-and-mid-sized-communities-toolkit)	No
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	Reconfigure public works yard to enhance space for organic recycling. Holland Creek Pedestrian Bridge rebuilt.	Provide alternative transportation methods (bike lanes in new streets etc)
Feasibility Studies, Research, Analysis	Continue investigating liquid natural gas vehicle conversion.	
Plans, Policies, Regulations	Fund and issue RFP for Master Transportation Plan	Complete and Implement Master Transportation Plan
Policy Implementation	Use of electric vehicle; GPS monitoring of fleet for fuel efficiency;	electric vehicles for municipal use and electric charging station;
Employee Training, Awareness	Promote bike/walk to work week.Regular maintenance scheduled for fuel efficiency	Promote bike/walk to work weekRegular maintenance scheduled for fuel efficiency
Committees, Staffing		
Funding		

COMMUNITY-WIDE - Transportation

	Actions taken in 2014	Actions proposed for 2015
Physical Improvements, Construction	Pedestrian Walkway lighting	Pedestrian walkway lighting in areas that are previously not lit and therefore do not encourage walking

Feasibility Studies, Research, Analysis		Inventory all sidewalk maintenance and trip hazards (pictures and GPS location) to make walking safer for community
Plans, Policies, Regulations	Fund and issue Master Transportation Plan Worked with BC Transit and revised routes	Complete and implement Master Transportation Plan; Continue to work with BC Transit to optimize routes
Policy Implementation	Electric charging stations available and investigation of expansion Expansion of transit to include handy dart system	expansion of electric charge stations with private sector partner
Community Education, Engagement	Promote bike/walk to work week.	Promote bike/walk to work week
Committees, Staffing		Host Public works week to engage students and families in understanding aspects of public works, including transportation
Funding	Funding BC Transit through regional district	BC Transit funding continues

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.

Variable	Response
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	Continue construction of improvements to Sewer Treatment Plant. Siting of WWTP is in consideration of climate change (on waterfront); Implement composting facility at Public Works Yard.	Continue construction of improvements to Sewer Treatment Plant. Enhance composting facility at Public Works Yard. Additional instrumentation of our water supplies.
Feasibility Studies, Research, Analysis	Developed a water modeling system to monitor and project water use, including climate change	refine water modeling system and adapt to recommendations for climate change; pilot project for water filtration to meet higher health standards. Dam inundation study, dam storage study.
Plans, Policies, Regulations	Continued to abide by liquid waste management plan.	Continue to abide by liquid waste management plan. Water Licensing for Stoking Lake review.
Policy Implementation		Watershed management Committee/Commission review.
Employee Training, Awareness	Staff trained at 'compost facility operator course'	Ongoing.
Committees, Staffing		Liquid Waste Management Committee will continue to meet periodically in 2015.
Funding		Covered by User Rates and Fees.

COMMUNITY-WIDE - Water and Wastewater

	Actions taken in 2014	Actions proposed for 2015
Physical Improvements, Construction	commenced construction of new WWTP; implementation of water meters in parks;	conclude construction of new WWTP;
Feasibility Studies, Research, Analysis	Consideration of extending program to include high efficiency washing machines. Ultimately, not adopted moved to overall water conservation target	SFN will be completing feasibility studies for supplying sewer and water to IR 13.
Plans, Policies, Regulations	investigate aggressive targets for water conservation; water restrictions and enforcement;	set new target for water conservation to 20% less than Canadian average; watering restrictions and enforcement;
Policy Implementation	Signed agreement with FN for the provision of water and sewer services to area previously having water trucked in to	Implement further FN agreement for the provision of water/sewer services. Form a multi stakeholder watershed management

	meet health standards	committee
Community Education, Engagement	Continue to offer low flush toilet rebates; presentation of water model to community meeting; Hosting a local water balance model training workshop for subdivision, development and building departments.	continue to offer low flush toilet rebates; Cowichan Watershed Board issues challenge to region, to 'meet or beat' Ladysmiths' water use!
Committees, Staffing		
Funding	Gas Tax Funding	

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.

Variable	Response
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? (http://www.toolkit.bc.ca/adaptation-challenges-and-opportunities)	Yes

CORPORATE - Other Climate Action

	Actions taken in 2014	Actions proposed for 2015
Physical Improvements, Construction	Commenced treatment plant treatment plant with climate action considerations	Consider impact of climate change on community water supply for 50 year horizon
Feasibility Studies, Research, Analysis	"Apply for Canada's' Top 100 Green Employers in Canada"	smoking bylaw Top 100 Green Employers in Canada
Plans, Policies,	Liquid waste management plan	enhanced smoking regulations

Regulations		
Policy Implementation		
Employee Training, Awareness		
Committees, Staffing	Liquid waste management plan committee	Watershed committee is being considered
Funding		

COMMUNITY-WIDE - Other Climate Action

	Actions taken in 2014	Actions proposed for 2015
Physical Improvements, Construction		
Feasibility Studies, Research, Analysis		Regional air quality (smoking and burning bylaws)
Plans, Policies, Regulations		
Policy Implementation		
Community Education, Engagement	Continue to donate produce to the local food bank.	local food security
Committees, Staffing		
Funding		

Innovation

INNOVATION

This section is intended to give your local government an opportunity to describe any energy and GHG emission reduction activities that have been undertaken over the past year(s) that your local government is particularly proud of and would like to share with other local governments.

CORPORATE - Innovation

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

The Town of Ladysmith received recognition as a green employer by being named "Canada's Greenest Employers" as part of the Top 100 Employers in Canada. The recognition is a result of corporate efforts throughout the organization. <http://www.ladysmith.ca/docs/news-documents/greenest-employer-news-release.pdf>

Town website has information on living green and sustainability, what the town is doing and what individuals can do. <http://www.ladysmith.ca/sustainability-green-living/overview>

COMMUNITY-WIDE - Innovation

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

The Town works formally and informally to support business in reducing energy consumption by engaging the leadership of key businesses in the development of action plans and opportunities that arise such as electric car charging stations (such as the local mill manager and owners of local grocery store);

Town and town staff featured on local TV station (Shaw TV) on a program entitled 'Go Island' featuring green initiatives on Vancouver Island.

<https://www.youtube.com/watch?v=IJkn9e85ozU&feature=youtu.be>

Local Government Information

LOCAL GOVERNMENT INFORMATION

Variable	Response
LOCAL GOVERNMENT INFORMATION Name of Local Government	Ladysmith, Town of
LOCAL GOVERNMENT INFORMATION Name of member Regional District (RD)	Cowichan Valley
LOCAL GOVERNMENT INFORMATION Regional Growth Strategy (RGS) in your region	No
LOCAL GOVERNMENT INFORMATION Population	5,000-9,999

Submitted by:

Variable	Response
Submitted by: Name	Ruth Malli
Submitted by: Position	City Manager
Submitted by: Email	rmalli@ladysmith.ca
Submitted by: Telephone # (ten digit)	250-245-6401

Before submitting your survey, please ensure that it is your local government's complete and final 2014 Climate Actions Survey. Please submit this survey only once.

Is this your local government's complete and final 2014 Climate Actions Survey?

Yes