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## Climate Action Revenue Incentive (CARIP)

### Public Report for 2015

**Local Government: Capital Regional District**

**Report Submitted by**

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

## 2015 BROAD PLANNING ACTIONS

### Broad Planning Actions

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

<b>Community-Wide Actions Taken in 2015</b>	
	Continued development of the CRD Community Climate Action Strategy (part of the RGS process)
	Completed draft Regional Food & Agriculture Strategy
	Continued process to update Regional Growth Strategy with required legislative provisions on climate change
	Completed agricultural land use inventory and water demand model for Southern Gulf Islands
	Continued ongoing land acquisition strategy to purchase forested lands/carbon sequestration
	Pursued strategic partnerships to help achieve community mitigation and adaptation targets
<b>Community-Wide Actions Proposed for 2016</b>	
	Completion of the CRD Community Climate Action Strategy
	Present Regional Food & Agriculture Strategy to CRD Board
	Complete Regional Growth Strategy: update and develop implementation and monitoring framework, including climate related targets and indicators
	Complete Southern Gulf Islands Food & Agriculture Strategy
	Establish educational programming and partnerships to promote local food and its benefits (including the reduction of GHG emissions and increased climate resiliency)
	Continue to pursue strategic partnerships to help achieve community mitigation and adaptation targets
	Develop a watershed assessment tool to monitor watershed health and hydrological function
	Work with Inter-Regional Education Initiative to offer Water Balance Accreditation workshop and participate in King-Tide photo initiative
	Complete development of Municipal Government toolkit to foster implementation of the Bowker Creek Blueprint
	Participate in St. Mary's Lake Watershed management planning process

<b>Corporate Actions Taken in 2015</b>	
	Identified climate change as a key strategic priority of the CRD Board
	Realigned resources and reorganized Corporate Services staff to effectively deliver on Board directives relating to climate change
	Completed GHG inventory analysis and identified opportunities and activities to reduce GHG emissions from within CRD-owned assets and facilities
	Began developing climate framework to integrate a climate lens into decision-making for Board approval
	Began developing organizational policies to incorporate climate change in new risk registers and elevate consideration of climate change as part of decision-making

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	Reviewed corporate policies relating to GHG emissions, with intent to update to meet Board strategic priorities and corporate emissions reductions targets
	Advocated to senior levels of government for programs and regulations to reduce emissions and/or prepare for climate change
<b>Corporate Actions Proposed for 2016</b>	
	Complete framework to integrate climate lens into CRD decision-making, and implement across the organization
	Develop and implement corporate mitigation and adaptation policies
	Initiate development of corporate climate change adaptation plan
	Continue to advocate to senior levels of government for programs and regulations to reduce emissions and/or prepare for climate change
	Continue to pursue strategic partnerships to help achieve community mitigation and adaptation targets
	Accelerate corporate mitigation and adaptation activities
	Increase staff resources for climate action mitigation and adaptation activities to meet the deliverables and strategic objectives highlighted above
	Develop corporate climate action annual report

<b>Snapshot Questions</b>	
<p>What GHG reduction targets are included in your local government’s Official Community Plan or Regional Growth Strategy?</p> <p>GHG reduction targets are included in the Official Community Plan for the Juan de Fuca Electoral Area.</p> <p>The CRD is actively working to update policies and actions and incorporate GHG reduction targets within our Regional Growth Strategy. The draft strategy includes the following GHG emissions reductions targets: 33% reduction (from 2007 levels) by 2020 and 61% reduction by 2038.</p>	<b>Yes</b>
Are you familiar with the Community Energy and Emission Inventory (CEEI)?	<b>Yes</b>
Does your local government use the Community Energy and Emissions Inventory (CEEI) to measure progress? Yes, but: the Province hasn’t released a CEEI since 2010, so it is difficult to measure progress.	<b>Yes</b>
<p>Which of the following does your local government use to guide climate action implementation?</p> <ul style="list-style-type: none"> <li>• Community Energy and Emissions (CEE) Plan</li> <li>• Climate Action Plan</li> <li>• Integrated Community Sustainability Plan</li> <li>• Official Community Plan (OCP)</li> <li>• Regional Growth Strategy (RGS)</li> <li>• Other: CRD Community Climate Action Strategy</li> </ul>	<p><b>Yes</b></p> <p><b>Yes</b></p> <p><b>No</b></p> <p><b>Yes</b></p> <p><b>Yes</b></p> <p><b>Yes</b></p>
Does your local government have a climate action reserve fund?	<b>Yes</b>
Does your local government have a Corporate Climate Action Plan?	<b>Yes</b>

## 2015 BUILDINGS AND LIGHTING ACTIONS

### Building and Lighting Actions

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

<b>Community-Wide Actions Taken in 2015</b>	
	Promoted available provincial and utility-based incentive programs for CRD residents (i.e. HERO program, Solar Colwood/CRD programs, etc).
	Provided Solar Hot Water incentives for CRD residents (2015 first quarter)
	Provided top up incentives to CRD residents for the Provincial Oil to Heat Pump Incentive Program
	Advocated to senior levels of government for programs and regulations to support GHG emissions reductions within buildings and facilities
	Delivered social media energy conservation education campaign in partnership with BC Hydro
<b>Community-Wide Actions Proposed for 2016</b>	
	Partner with FortisBC and City Green Solutions on a Pre-Rinse Spray Valve Replacement Program for Food Service Establishments
	Provide top up incentives to CRD residents for the Provincial Oil to Heat Pump Incentive Program
	Promote available home retrofit incentive programs to CRD residents

<b>Corporate Actions Taken in 2015</b>	
	Conducted building Lighting audits within 6 CRD managed buildings including CRD headquarters, Vancouver Island Health units, and the SEAPARC recreation facility
	Purchased and implemented Energy Management Software for all CRD owned/managed buildings and facilities
	Established Building Facilities Managers User Group to support adoption of low carbon technologies and identify efficiencies
	Worked with CRD tenants (VIHA) towards implementing energy management program for VIHA leased facilities
	Installed LED underwater lighting within leisure pool at SEAPARC Leisure Complex
	Installed high efficiency condensing boiler at Capital Region Housing Corp. Kings Rd. facility
	Rebalanced HVAC air flow in 5 buildings (i.e. CRD HQ and VIHA health units) for increased energy efficiency and client comfort
	Conducted building envelope assessments to ensure air and water tightness and reduce energy losses
	Added window tinting at several locations to reduce HVAC system requirements (i.e. air conditioning)
	Investigated funding opportunities towards future implementation of LED lighting for Panorama Recreation facility and parking lots
	Initiated a “Burn Calories, not Electricity” signage project for elevator to encourage employees and direct visitors to the stairs instead of the elevator
	Replaced bathroom aerators for Phase I side of Fisgard building, reducing hot water use for hand

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	washing by 75%
	Completed design of LED lighting upgrade for SEAPARC Leisure complex
	Initiated project to upgrade oil fired boiler with high efficiency condensing natural gas boiler at the SEAPARC Leisure Complex
	Completed final commissioning of data centre heat recovery project at CRD HQ
	'Fine-tuned' CRD HQ phase 1 green roof data collection to reduce HVAC requirements
	Completed final commissioning of solar photovoltaic panels at Juan de Fuca building
	Completed final commissioning of solar panels for hot water heating at the Salt Spring Island library
	Replaced various office equipment (photocopiers, printers, monitors etc.) with energy saving models
	Initiated light pollution research to improve environment and reduce energy costs
	Completed building Hazardous Materials Assessments in 11 buildings (Juan de Fuca, Salt Spring Island Library, Galiano Island Library, Animal Pound, Bylaw, Victoria Health Unit, Esquimalt Health Unit, Pembroke Health Unit, Peninsula Health Unit, CRD HQ Ph. 1, CRD HQ Ph. 2)
	Initiated lighting retrofit activities within island water services locations
<b>Corporate Actions Proposed for 2016</b>	
	Continue ongoing monitoring and assessment of buildings to achieve corporate GHG targets and goals
	Implement energy monitoring software for 400 CRD utility accounts to obtain baseline usage data
	Initiate a climate lens to ensure decision making on capital projects meets CRD's GHG reduction targets
	Pursue BOMA Best certification process to assist developing energy utilization baseline data for all FM managed facilities
	Complete LED lighting upgrade project at SEAPARC Leisure Complex. Replace aging lighting in facility with low energy LED lights. Significant energy savings will result.
	Complete oil boiler to natural gas boiler supplement at SEAPARC Leisure Complex. Install, supplemental natural gas boiler.
	Complete Building Hazardous Materials Assessments in 92 buildings CRD owned buildings
	Install Healthy Workplace & Wellness Committee "Burn Calories, not Electricity" signage
	Complete study and preliminary design work for boiler replacement at Panorama Recreation Center.
	Promote cross-organization collaboration to identify new opportunities to conserve/improve efficiency of energy use
	Utilize green roof monitoring equipment as part of the building controls to measure reduction in building heating/cooling needs as a result of the green roof

## 2015 ENERGY GENERATION ACTIONS

### Energy Generation

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

<b>Community-Wide Actions Taken in 2015</b>	
	Processed brush pile from invasive species removal into biofuel
	Offered solar hot water incentives for CRD residents (until March 31, 2015)
	Provided top up incentives to CRD residents for the Provincial Oil to Heat Pump Incentive Program
<b>Community-Wide Actions Proposed for 2016</b>	
	Process brush pile from invasive species removal into biofuel
	Provide top up incentives to CRD residents for the Provincial Oil to Heat Pump Incentive Program

<b>Corporate Actions Taken in 2015</b>	
	Optimized landfill gas capture with goal of 75% capture rate by 2016
	Continued operation of the Saanich Peninsula Thermal Energy Recovery pilot project
<b>Corporate Actions Proposed for 2016</b>	
	Undertake integrated design process for heat recovery at Panorama Recreation Center

<b>Snapshot Questions</b>	
Is your local government developing, or constructing a district energy project?	<b>No</b>
Is your local government operating a district energy system?	<b>Yes</b>
Is your local government developing or constructing a renewable energy project?	<b>No</b>
Is your local government operating a renewable energy project?	<b>No</b>
Are you aware of the Integrated Resource Recovery guidance page on the BC Climate Action Toolkit (insert link here)?	<b>Yes</b>

## 2015 GREENSPACE/ NATURAL RESOURCE PROTECTION ACTIONS

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

<b>Community-Wide Actions Taken in 2015</b>	
	Supported physical reconstruction of the Bowker creek channel as part of the Oak Bay High School Bowker Creek Restoration Project
	Supported Salt Spring Island protection authority
	Coordinated Esquimalt Lagoon Shoreline Invasive Plant removal
	Supported keyline design study and education for agricultural rainwater management
	Presented oil tank removal workshop for member local governments
	Completed Point Ellice House Shoreline Restoration
	Expanded community garden space at Greenglade Community Centre
	Continued restoration of high ecological value habitats in 20 active restoration sites in Regional Parks
	Continued restoration of aquatic habitat in Seagirt Ponds Community Park (East Sooke)
	Conducted Native Plant Workshops promoting drought tolerant plants, replacing of high water use lawns, increasing food security, and composting
	Partnered with Gorge Tillicum Community Association to include technical and financial support for Community Garden
	Implemented ongoing land acquisition strategy to purchase and preserve forested lands increasing carbon sequestration
	Investigated the opportunity to expand the Allotment Garden at Greenglade Community Centre
	Provided top up incentives to CRD residents for the Provincial Oil to Heat Pump Incentive Program to protect waterways
	Monitored site conditions and planned for restoration at CRD brownfield sites (approx. 3 sites)
	The CRD provided input, promotion and support to, and participated on, an advisory committee to develop the curriculum for the Green Shores Training Project.
<b>Community-Wide Actions Proposed for 2016</b>	
	Support the completion of the Oak Bay High School Bowker Creek Restoration Project
	Partner with Gorge Tillicum Community Association to include technical and financial support for Community Garden
	Support keyline design study and education for agricultural rainwater management
	Conduct reforestation/ revegetation of previously contaminated & remediated site at the Thetis Lake Pistol Range
	Implement Elk and Beaver Lake Initiative to enhance lake function
	Participate in outreach with the Capital Region Invasive Species Partnership
	Implement ongoing land acquisition strategy to purchase and preserve forested lands increasing carbon sequestration

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	Conduct Native Plant Workshops promoting drought tolerant plants, replacing of high water use lawns, increasing food security, and composting with a focus on the restoration of the Douglas Fir and Garry Oak ecosystems
	Pilot Residential Edible Plant Gardening Workshop
	Provide top up incentives to CRD residents for the Provincial Oil to Heat Pump Incentive Program to protect waterways
	Plant 150 indigenous trees along Regional Trails
	Provide top-up incentives to CRD residents for the Provincial Oil to Heat Pump Incentive Program to protect waterways
	Continue investigation and restoration activities at CRD brownfield sites (approx. 3 sites)
	Provide financial sponsorship of the Strawberry Vale Elementary School demonstration Edible Garden

### Corporate Actions Taken in 2015

	Planted native plants and food garden on CRD Headquarters green roof
	Continued maintenance of Living wall at CRD Headquarters facility
	Implemented ongoing land acquisition strategy to purchase forested lands/carbon sequestration

### Corporate Actions Proposed for 2016

	Plant native plants and food garden on CRD Headquarters green roof
	Continue maintaining Living wall at CRD Headquarters facility
	Hold Native Plant Lunch and Learn session for CRD staff

### Snapshot Question

Does your local government have urban forest policies, plans or programs?	Yes
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## 2015 SOLID WASTE ACTIONS

### Solid Waste

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

### Community-Wide Actions Taken in 2015

	Banned kitchen scraps from Hartland Landfill
	Continued illegal and abandoned waste education to facilitate the safe and appropriate management of unwanted waste items
	Reduced per capita regional disposal rate from 369/kg pp (2014) to 347 kg/pp (2015)
	Commissioned service delivery of compost education
	Provided equal level of waste management and diversion across the region (increased service to Electoral Areas)
	Refined recycling in 4 additional facilities to comply with new CRD bylaws



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	Distributed collapsible recycling containers for use at public events
	Provided community outreach services to promote waste reduction and diversion.
	Provided school and community tours of the Hartland Landfill and Recycling Facility to promote waste reduction and diversion
	Provided ongoing maintenance of “My Recyclopeda” web tool.
	Provided the Blue Box collection schedule and calendar reminder online
<b>Community-Wide Actions Proposed for 2016</b>	
	Educate residents about safely managing home renovation and demolition waste
	Provide community outreach services to promote waste reduction and diversion
	Provide school and community tours of the Hartland Landfill and Recycling Facility to promote waste reduction and diversion
	Continue ongoing maintenance of “My Recyclopeda” web tool
	Build on illegal and abandoned waste education to facilitate the safe and appropriate management of unwanted waste items
	Implement new contracts for regional kitchen scraps composition and recycling
	Coordinate a waste composition study
	Host Hartland Happening, a community open house and tours of Hartland landfill and recycling facility
	Promote the online Blue Box collection schedule and calendar reminder

<b>Corporate Actions Taken in 2015</b>	
	Secured recycling contract which provides incentive for supply of CNG powered collection vehicles.
	Achieved a landfill gas collection efficiency of 66%
	Implemented recycling program that diverts paper, cardboard, soft and hard plastics, foil, Styrofoam, batteries, metal, electronic equipment and compostable materials from the landfill
	Returned all stale fuel, oil, tires and batteries for recycling
	Changed supplier for document shredding and recycling to more sustainable supplier
	Implemented a Regional Parks initiative to encourage staff to bring in cardboard, paper, Styrofoam, plastic, electronics, organic materials for recycling
	Undertook various paperless initiatives throughout the organization including paperless meetings in Environmental Partnerships division, encouraged paperless/electronic internal correspondence, continued implementation of digital version of Cross Connection form
	Encouraged staff to print double-sided and avoid use of colour printing wherever possible
	Used a sign making Printer/Cutter, that uses “Eco-Solvent” (Low Volatile Organic Compounds (VOC), Non-toxic)
	Re-used vinyl sign liner-paper as packaging. Source recycled/recyclable materials, i.e.: use a rigid paper-based recyclable rigid display board instead of plastic materials when available
<b>Corporate Actions Proposed for 2016</b>	
	Optimize landfill gas capture with goal of 75% capture rate by 2016
	Continue to undertake various paperless initiatives throughout the organization including paperless meetings, encouraged paperless/electronic internal correspondence, continued implementation of digital version of Cross Connection form
	Implement the swap out of paper towel dispensers in 5 buildings (reduced paper towel usage due to more flexible paper length settings)
	Continue recycling program that diverts paper, cardboard, soft and hard plastics, foil, Styrofoam, batteries, metal, electronic equipment and compostable materials from the landfill

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	Continue to recycle all stale fuel, oil, tires and batteries
	Continue Regional Parks initiative to encourage staff to bring in cardboard, paper, Styrofoam, plastic, electronics, organic materials for recycling

Snapshot Questions	
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

## 2015 TRANSPORTATION ACTIONS

### Transportation

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

Community -Wide Actions Taken in 2015	
	Participated in provincial DC fast charger siting workshop
	Created 2.17km of E&N Rail trail Phase 2. (Cycling & Pedestrian trail)
	Updated and recalibrated regional transportation model, which includes data that can assist with forecasting transportation related GHG emissions
	Completed Pedestrian & Cycling Master Plan Implementation (PCMP) Pilot Project which included new investments in cycling and walking infrastructure as well as supportive educational and encouragement programming (see innovation section below; more details available as required)
	Pursued funding for an active transportation fair/expo to increase regional sustainable transit
	Investigated active transportation options for after school program at Greenglade Community Centre
	Commissioned the Bikenomics research report
	Completed 2013-2015 PCMP implementation pilot project
	Hosted a SEAPARC cycling event
	Develop new trail head and parking area at Sheringham Point nature trail
	Upgraded the bike park at SEAPARC
Community-Wide Actions Proposed for 2016	
	Complete of section of E&N Rail Trail between Wilson Street and Esquimalt Road (Phase 1)
	Initiate development of a regional Transportation Service
	Launch a new program to encourage residents to travel without automobiles. People Power, the Active Transportation & Healthy Communities Program, offers a unique approach to integrate cycling, walking, rolling and public transit into everyday life
	Launch Active and Safe Routes to School project
	Commission a research report reallocation of road space to support active transportation
	Deploy Smart Drive Challenge for residents to increase fuel efficient driving habits and use of active modes

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Sponsor Bike to School and Bike to Work Week 2016
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<b>Corporate Actions Taken in 2015</b>	
	Completed E3 fleet review and GHG reduction assessment on CRD fleet vehicles and equipment
	Improved routing of preventative maintenance work to reduce unnecessary trips
	Used local vendors wherever feasible to reduce transportation impacts
	Purchased corporate cargo bicycle for low-carbon outreach & engagement with residents
	Purchased vehicles with diesel engines/lower displacement engines for reduced emissions
	Continued to consider fuel economy and sizing of vehicles when selecting the replacements
	Enforced No Idling policy on Regional Parks vehicles
	Used electrical utility cart as replacement for a gas driven unit
	Utilized webinars and telecommunications to minimize travel
	Continued use of Spatial Mapping tools for inspection planning within Source Control Program to optimize travel planning
	Pursued trip reduction through car-pooling and use of appropriate vehicles such as Smart Car
	Began development of E-Bike pilot project for source control inspections
<b>Corporate Actions Proposed for 2016</b>	
	Implement a fuel card system and or other program to better track vehicle fuel use
	Undertake electric vehicle feasibility study within the CRD fleet
	Complete a Fleet maintenance study to ensure correct level of maintenance is being performed
	Continue to use of teleconference technology, and install of Skype capability in meeting rooms, where appropriate
	Pilot the use of an E-Bike pilot for inspections
	Utilize mobile computer and communication devices for inspection staff to maximize connectivity and minimize return office visits
	Continue to reduce number of trips through car-pooling and use appropriate vehicles such as Smart Car to avoid unnecessary fuel consumption

<b>Snapshot Questions</b>	
Does your local government have policies, plans or programs to support:	
• Walking	Yes
• Cycling	Yes
• Transit Use	Yes
• Electric Vehicle Use	Yes
• Other	Yes
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)?	No
Does your local government have policies, plans or programs to support local food production (thus reducing transportation emissions)?	Yes

## 2015 WATER AND WASTEWATER ACTIONS

### Water and Wastewater

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

<b>Community-Wide Actions Taken in 2015</b>	
	Led campaigns related to minimizing water use at home and work. Promotional material was provided at the 100 Anniversary celebration, on our website, as well as at the operational centre at 479 Island Highway
	Provided water auditing services to businesses in region to promote water and energy conservation
	Replaced high use water fixtures such as hair wash sprayers (salons) and aerators and pre-rinse spray valves (food services and offices) with high efficiency models free of charge to promote water and energy conservation
	Developed watershed stewardship videos targeting regulators in water conservation methods
	Used financial incentives within source control permits to stimulate water conservation
	Developed Grease Interceptor maintenance tracking program to increase inspection efficiency
	Funded ECOSTAR awards to green businesses and watershed stewardship
	Reviewed Sewer Use Bylaw to include water conservation regulations
	Promoted wise and efficient use of water in residential buildings
	Delivered Tap by Tap: Multi-Unit Residential Program for energy and water savings (in partnership with FortisBC and City Green Solutions)
	Provided education and outreach component of the Kitchen Scraps program to the ICI sectors
	Integrated Climate Action messaging into ICI and residential outreach and education tools
	Piloted a project to assess the increase pump-out intervals of residential onsite septic systems
	Conducted residential “Fix A Leak” week pilot outreach and education campaign
	Hosted Irrigation workshops to promote proper design, installation, operation, and maintenance of irrigation systems
	Closed flush toilets at Hamsterly, Eagle and Beaver beaches and Thetis Lake for all except the summer months to save water. All other washrooms in the parks are pit toilets
	Monitored storm water (i.e. creeks, lakes, harbour, shoreline)
	Added hydrological monitoring station on 2 more creeks (Bowker and Douglas)
<b>Community-Wide Actions Proposed for 2016</b>	
	Provide water audit program to businesses to promote water and energy conservation
	Continue offering free fixture replacements for hair wash sprayers, aerators, and pre-rinse spray valves to promote water and energy conservation
	Partner with FortisBC and City Green Solutions on a Pre-Rinse Spray Valve Replacement Program for Food Service Establishments
	Co-host a Water Balance Accreditation workshop in partnership with Inter-regional Education Initiative for practitioners in the CRD
	Continue ongoing hydrological monitoring on 7 creeks throughout the region as input to watershed evaluation and assessment tool and to monitor changes in hydrology as our climate changes
	Establish a partnership with UVic to utilize and display weather data from the School net Systems

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	Initiate a new partnership with Camosun College to replace water cooled equipment and find water and energy savings synergies between two campuses. Involves linking them to progressive actions done by UVic
	Apply a newer water audit tool to multi-tenant commercial properties to promote water and energy conservation
	Continue to promote more efficient commercial water use in industrial/Commercial/institutional permits
	Initiate “Just Ask” campaign to encourage restaurants to limit their glasses of water to customers by request. Target 100 restaurants participating
	Review existing Food Services Code of Practice within Sewer Use Bylaw 2922
	Pilot Grease Interceptor maintenance tracking program to increase inspection efficiency
	Initiate H2Otel regional initiative to support hotels in reducing water consumption via free online EPA WATERSENSE tool
	Develop partnership for on-site wastewater treatment for food carts at public space
	Review Sewer Use Bylaw to include water conservation regulations
	Promote wise and efficient use of water in residential buildings
	Implement “Flushable” education campaign to reduce blockages, landfill mass, and infrastructure and treatment maintenance to be integrated into the “Source Control As A First Step For Sewage Treatment” campaign
	Integrate Climate Action messaging into ICI and residential outreach and education tools
	Expand pilot project to assess the increase pump-out intervals of residential onsite septic systems
	Undertake residential “Fix A Leak” week outreach and education campaign
	Conduct irrigation workshops to promote proper design, installation, operation, and maintenance of irrigation systems
	Pilot Residential water reduction/shower behaviour campaign
	Develop and implement a water wise social media campaign to encourage residential water savings.
	Continue monitoring of storm water
	Continue to close flush toilets at, Hamsterly, Eagle and Beaver Beach and Thetis Lake for all except the summer months to save water. All other washrooms are pit toilets. All other washrooms in the parks are pit toilets

<b>Corporate Actions Taken in 2015</b>	
	Investigated funding opportunities towards future implementation of water saving urinals and toilets for Panorama Recreation Centre and Green Glade facilities
	Implemented rain water collection system at Juan de Fuca (grey water system)
	Rezoned and improved irrigation controls for several locations
	Installed low flow water aerators in CRD HQ Phase 1 washrooms
	Continued the Integrated Water Service Infrastructure Operations program to reduce Inflow and Infiltration into our sanitary collection system at our various services. This effort is paying off to reduce the amount of extra pumping and processing required at the wastewater pump stations and treatment plants
	Used environmentally-friendly cleaning supplies and recycled paper products in all washrooms and kitchen areas
	Used a water-saving dishwasher (full loads only) within CRD Headquarters facility
	Used rainwater flushing for toilets within the Headquarters facility
<b>Corporate Actions Proposed for 2016</b>	

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	Continue to use environmentally friendly cleaning supplies and recycled paper products in all washrooms and kitchen areas
	Continue use of rainwater flushing for toilets within the Headquarters facility

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

## 2015 CLIMATE CHANGE ADAPTATION ACTIONS

### Climate Change Adaptation

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

Community-Wide Actions Taken in 2015	
	Hosted sea level rise planning workshop with local government staff
	Completed CRD Coastal Sea Level Rise Risk Assessment Project
	Completion of CRD Sea Level Rise Planning Approaches Project
	Contributed to Climate Change Adaptation on the BC Coast Video/Workshop Series (NRCAN funding, led by the Province of BC and Golder, and multi-stakeholder partnership)
	Supported the Green Shores Training Development Project led by the Stewardship Centre for BC
	Supported keyline design workshops for farmers (rain water management for agricultural lands market gardeners)
Community-Wide Actions Proposed for 2016	
	Create and distribute green infrastructure common design guidelines for storm water source control
	Establish three year partnership with Green Shores Local Government Working Group and host education and outreach sessions to achieve to achieve broad-based recognition and use of green shores by property owners, professionals, contractors and government
	Partner with Pacific Climate Impacts Consortium to update climate projections for the Capital Region

Corporate Actions Taken in 2015	
	Initiated a process to integrate a climate adaptation lens on future asset management and capital projects
	Participated in Provincial Flood Hazard Land Use Guideline amendment consultation process, and provided comments from both corporate and Regional perspective
	Participated in Provincial Climate Leadership Plan consultation process and provided comments from both corporate and Regional perspective
Corporate Actions Proposed for 2016	

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	Continue participation in Provincial Climate Leadership Plan consultation process
	Partner with Pacific Climate Impacts Consortium to identify future climate projections for the Region
	Initiate development of Corporate Climate Adaptation Plan

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

## 2015 OTHER CLIMATE ACTIONS

### Other Climate Actions

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

Community-Wide Actions Taken in 2015	
	Undertook “One Window” approach to Divisional and Department outreach and Program specific outreach with integrated Climate Change messaging that include Green 365, outdoor, indoor, kitchen/cooking, and spring cleaning components of integrated program messaging
	Supported outreach venues with green programs and climate change mitigations initiatives
	Planned “Ready, Set, Solve” post-secondary competition for solving real world climate action issues promoted via web and social media
	Provided Climate Action To Go Kits to support residents in understanding their energy consumption, in partnership with Regional Libraries and School Districts
	Hosted four Resilient Region Breakfast events, a quarterly event to gather community members to network and share about climate action initiatives and activities across the region. These events each attracted 100+ community members
	Developed local government and community climate action monthly e-newsletters
	Participated and supported of Youth Climate Action Summit and Off the Grid Festival
	Supported BCSEA Climate Change Showdown for regional elementary schools
	Completed my Green High School plan competition
	Initiated Ready Set Solve student climate challenge
	Produced and updated web-based maps of parks and trail to make them easier to download onto mobile devices. This will reduce the number of paper maps and brochures that need to be produced
Community-Wide Actions Proposed for 2016	
	Deliver “One Window” approach to Divisional and Department outreach and Program specific outreach with integrated Climate Change messaging that include “In The Laundry Room’ residential

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	outreach campaign
	Support outreach venues with green programs and climate change mitigations initiatives
	Launch “Ready, Set, Solve” post-secondary competition for solving real world climate action issues promoted via web and social media
	Support Planet Protector Academy for regional elementary schools
	Award Ready Set Solve student climate change challenge winners

<b>Corporate Actions Taken in 2015</b>	
	Continued gardening group for Fisgard Building roof top green roof garden to promote food sustainability and supplement lunches
	Invited staff to participate in external learning opportunities on various climate related topics
	Supported outreach venues with green programs and climate change mitigation initiatives
<b>Corporate Actions Proposed for 2016</b>	
	Continue gardening group for Fisgard Building roof top green roof garden to promote food sustainability and supplement lunches



## INNOVATION AND PEER-TO-PEER LEARNING

### Innovation

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

#### Community-Wide Innovative Action

The Pedestrian and Cycling Master Plan (PCMP) was developed in 2011 as a strategy for achieving a significant shift in transportation throughout the Capital Regional District. The PCMP identifies a series of recommendations under the headings of the 5 E's of sustainable transportation (Engineering, Education, Encouragement, Enforcement and Evaluation) that, if implemented, would result in a 15% modal split region-wide for walking and cycling by 2038. In December 2012 the CRD was successful in securing a contribution of \$780,950 through the former Government of Canada's Gas Tax Fund transfer program for a two-year PCMP Implementation Pilot Project. The project consisted of a series of innovative projects and investments targeting the 5 E's of sustainable transportation. The two year pilot was completed by the CRD in June 2015. The Pilot consisted of the following:

- Innovative Infrastructure Fund for municipalities
- On Road Cycling Destination Wayfinding Sign Guidelines & Installation Program for municipalities
- Cruise with Courtesy Educational Campaign for residents
- Active Transportation Training & Development Program for local government employees
- CRD Bikeways & Trails map for residents and visitors
- Active Transportation Special Event Fund for community associations, municipalities, and charitable organizations
- Ride On! Cycling Skills Courses for residents
- Various research projects, including Bikenomics: A Primer on the Economic Impact of Cycling in the Capital Region

Each of these components were designed to support an increased use of cycling and walking, and reduction of GHG emissions, in the capital region. <https://www.crd.bc.ca/project/pedestrian-cycling-master-plan>

#### Corporate Innovative Action

The 2015- 2018 CRD Board Strategic Priorities and resulting Corporate Strategic Plan identified Climate Change as a key priority for the Organization over the coming years. To meet this priority, the organization has realigned resources to effectively deliver on Board directives relating to climate change, and is working to implement policy and practices to demonstrate leadership in operations. Key activities include developing a climate framework to guide policy development, initiating a 'climate lens' review process for Board decision-making, and accelerating corporate activities relating to both mitigation and adaptation.

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<https://www.crd.bc.ca/docs/default-source/corporate-communications-pdf/crd-corporateplan2015-2018.pdf?sfvrsn=6>

## Programs, Partnerships and Funding Opportunities

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

### Programs and Funding

- BC Hydro PowerSmart Program: in support of the Climate Action To Go Kits and the Resilient Region Exchange Breakfast Series
- FortisBC: in support of the Oil to Heat Pump Incentive Program, and Tap by Tap: Multi-Unit Residential Program.
- BC Hydro and FortisBC's Home Energy Rebate Offer Program
- FortisBC High Efficiency Condensing Natural Gas Boiler Incentive: Capital Region Housing Corporation Boiler Retrofit Project
- Funding for Ready, Set, Solve from UVic, Camosun and BC Hydro
- Sea Level Rise Planning Project funded by Natural Resources Canada and Tides Canada
- Solar CRD worked with City of Colwood and federal funders
- Community Energy Leadership Program: Capital Region Housing Corporation Boiler Retrofit Project
- Gas Tax Regional Significant Priority Funds (previous iteration of program)
- Investment Agriculture Fund of BC
- Bike BC Fund
- Canada 150 Infrastructure Program: We received \$.5M for the Panorama Recreation Centre upgrade that will enhance energy efficiency of the refrigeration system for the ice arena
- Gas Tax Community Works Fund
- Victoria Foundation: For a series of community outreach initiatives to stimulate active transportation (which helps with climate change through behavior modification)
- Asset Management Planning Program: To build capacity for managing assets which, indirectly, supports climate action goals (better management of assets, more timely maintenance which can help reduce emissions etc.)

## 2015 CARBON NEUTRAL REPORTING

### Reporting Emissions

Did you measure your local government's corporate GHG emissions in 2015? (Yes/No)	Yes
If your local government measured 2015 corporate GHG emissions, please report the number of corporate GHG emissions (in tonnes of carbon dioxide equivalent) from services delivered <u>directly</u> by your local government:	2,286
If your local government measured 2015 corporate GHG emissions, please report the number of corporate GHG emissions (in tonnes of carbon dioxide equivalent) from <u>contracted</u> services:	0
<b>TOTAL A: CORPORATE GHG EMISSIONS FOR 2015</b>	<b>2,286 tCO<sub>2</sub>e</b>

### Reporting Reductions and Offsets

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

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

**If applicable, please report the 2015 GHG emissions reductions (in tonnes of carbon dioxide equivalent (tCO<sub>2</sub>e)) being claimed from Option 1 GHG Reduction Projects:**

OPTION 1 PROJECTS	REDUCTIONS
Energy Efficient Retrofits	
Solar Thermal	
Household Organic Waste Composting	
Low Emission Vehicles	
Avoided Forest Conversion	
<b>TOTAL B: REDUCTIONS FROM OPTION 1 PROJECTS FOR 2015</b>	<b>tCO<sub>2</sub>e</b>

**If applicable, please report the names and 2015 GHG emissions reductions (in tonnes of carbon dioxide equivalent (tCO<sub>2</sub>e)) being claimed from Option 2 GHG Reduction Projects:**

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OPTION 2 PROJECT NAME	REDUCTIONS
CRD Landfill Gas Emissions Reduction Project	2,286 tCO <sub>2</sub> e
<b>TOTAL C: REDUCTIONS FROM OPTION 2 PROJECTS FOR 2015</b>	<b>2,286 tCO<sub>2</sub>e</b>

If applicable, please report the number of offsets purchased (in tonnes of carbon dioxide equivalent (tCO<sub>2</sub>e)) from an offset provider for the 2015 reporting year:  
 (NOTE: DO NOT INCLUDE ANY FUNDS THAT MAY BE SET ASIDE IN A CLIMATE ACTION RESERVE FUND)

OFFSET PROVIDER	REDUCTIONS
<b>TOTAL D: OFFSETS PURCHASED FOR 2015</b>	<b>tCO<sub>2</sub>e</b>

**TOTAL REDUCTION AND OFFSETS FOR 2015 (Total B+C+D) = 2,286 tCO<sub>2</sub>e**

### Corporate GHG Emissions Balance for 2015

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

**CORPORATE GHG EMISSIONS BALANCE FOR 2015 = (A – (B+C+D)) = 0 tCO<sub>2</sub>e**

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

## GCC CLIMATE ACTION RECOGNITION PROGRAM

### Green Communities Committee (GCC) Climate Action Recognition Program

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

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

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

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

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

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