

Summary of Climate Action Revenue Incentive Program (CARIP) 2011 Action Highlights



November 2011



Ministry of
Community, Sport and
Cultural Development

Climate Action Revenue Incentive Programs (CARIP)

Action Highlights 2010: *Examples of B.C. Local Government Climate Actions Identified in 2010 CARIP Reports*

Purpose of this List

For 2010, a total of 162 Climate Action Charter signatories completed and submitted Climate Action Revenue Incentive Program (CARIP) Reports, providing valuable insight into the wide range of climate actions being implemented by B.C. local governments to move forward on their *Climate Action Charter* goals. The list of climate actions provided below was extracted from the compiled list of all of climate actions reported by local government in their CARIP reports in 2010 and provides key highlights of the climate actions being undertaken across B.C.

The intention of the “CARIP Action Highlights List” is to provide ideas of the types of actions local governments could consider undertaking in their own communities. The complete, more detailed list of actions reported under CARIP for 2010 can be found [here](#).

The list of actions highlights below is divided into community-wide actions and corporate actions and within each of those categories is further divided into ‘direct actions’ and ‘supportive actions’ as more fully described below.

For any questions regarding the highlights list, please contact:

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Community-Wide Actions

Supportive Community Wide Actions

Supportive actions refer to activities that provide a framework or foundation for direct actions to be implemented. These include: the development of committees or new staff positions, education and engagement, feasibility studies, policy development and engagement with programs and partnerships.

Broad Planning

- Developed a public outreach website
- Launched Climate Action/Sustainability newsletter
- Supported delivery of climate action education plays in elementary schools
- Updated website to include information on climate change and actions being taken by the community to address climate change
- Hosted youth forum on climate action
- Offered ‘Climate Smart’ programs to small and medium sized businesses

Building and Lighting

- Developed a guide for homeowners on how to reduce household emissions
- Participated in BC Community Energy Association's (link) building task force
- Increased density in the downtown corridor or area
- Developed a green building policy
- Participated in Green Building Leaders Project
- Developed a sustainability checklist for rezoning applications
- Established secondary suites bylaw

Energy Generation

- Explored bio-mass heating options for buildings
- Initiated research into Solar Development Permit Area (DPA)
- Signed on to the Provincial Solar Ready Regulation
- Designated a 'Solar Community'

Transportation

- Hosted Bike to Work Week clinics on bike safety and bike maintenance
- Developed and implemented community anti-idling education program.
- Improved bike signage to encourage cycling
- Initiated a sustainable transportation master plan
- Implemented a new bicycle network plan

Waste

- Promoted awareness of recycling opportunities in the community
- Developed a Solid Waste Management Plan
- Completed study identifying alternative ways to divert biosolids from landfill
- Launched free public composting workshops
- Launched 'Zero-waste' challenge for residents
- Adopted Solid Waste and Recycling Bylaw
- Joined 'Pitch in Canada' program to encourage waste reduction and recycling

Water/Sewer

- Distributed water conservation brochures throughout the community
- Published monthly water-smart tips in local newspapers
- Adopted new water rates and implemented them in 2010 to promote water conservation
- Participated in the Water Smart Initiative
- Implemented a Water Action Plan
- Conducted a sewer treatment plant study to identify efficiency opportunities and capacity enhancements

Green Space

- Adopted a Park acquisition policy
- Implemented Urban Forestry Strategy
- Designated OCP Environmental Development Permit Areas
- Developed a plant and tree protection bylaw
- Development Permit Area (DPA) regulations for green space protection

Direct Community-Wide Actions

Direct actions refer to activities that can be directly implemented by local government.

Building and Lighting

- Implemented policies requiring energy efficient fixtures in new construction.
- Developed a Green Building Checklist
- Implemented sustainability checklist for new development permit applications
- Created Green Zoning Policy
- Used bonus density tools to encourage increased density in the downtown
- Implemented 'Low Impact Development' requirements for all new development

Energy Generation

- Installed solar hot water systems
- Introduced Solar Hot Water Ready Regulation
- Partnered with an energy company to develop two new district energy systems

Transportation

- Expanded bicycle network
- Built New transit shelters
- Installed downtown separated bike lane
- Created additional bike facilities in downtown
- Increased transit hours and frequency
- Instituted free transit on air quality advisory days
- Extended existing trail network
- Bike lane created linking school to recreation centre

Waste

- Initiated curb side recycling
- Implemented organic waste collection services
- Held a community garage sale
- Initiated construction of a recycling facility
- Garbage frequency decreased and recycling pick up increased
- Spring compost sale; composting bins, digesters and worm composters sold below cost
- Implementation of city wide 'Green Can Program' to encourage separation of household organic waste

Water/Sewer

- Low flush toilet rebate program introduced
- Installed water meters
- Promoted grey water reuse
- Initiated a toilet replacement program

Greenspace

- Initiated Community Ecosystem Restoration Project (planting trees)
- Natural Area Restoration including extensive invasive species removal
- Planted over 100 trees
- Increased the number of community gardening plots
- Increased the number of street gardens cared for by residents

Corporate Actions

Supportive Corporate Actions

Supportive actions refer to activities that provide a framework or foundation for direct actions to be implemented. These include: the development of committees or new staff positions, education and engagement, feasibility studies, policy development and engagement with programs and partnerships.

Broad Policy

- Developed corporate climate action strategy
- Helped “Energy and Emissions Planning” Workshop for staff and elected officials
- Implemented a Workplace Energy Conservation Awareness program
- Completed corporate energy audit
- Established cross-departmental green team
- Created Corporate Energy Manager position (in partnership with BC Hydro)
- Completed Carbon Neutral Plan
- Developing a “Carbon Neutral Investment Fund”
- Developed a sustainability checklist for municipal operations

Building and Lighting

- Became a BC Hydro Power Smart partner
- Implemented civic building energy reduction program
- Developed energy emissions reduction plan for all corporate buildings
- Adopted a civic green building policy
- Initiated “turn it off” policy in civic buildings

Energy Generation

- Completed review of hot water heating for municipal facilities
- Completed landfill gas management strategy
- Completed District Energy Feasibility study Completed feasibility study of energy generation from local water reservoir
- Conducted a review of utilizing waste heat from big industrial centres for community facilities
- Applied for solar hot water retrofit grant for a recreation facility

Transportation

- Implemented anti-idling staff training and awareness programs
- Bike to work week, and commuter challenge events, and clean air days for staff
- Initiated fleet assessment
- Participated in E3 fleet program

- Initiated Transportation Demand Management Program for employees
- Switched from weekly to biweekly garbage pickup
- Established part of city fleet as car-sharing Co-op, where city fleet is available to public use during off-hours

Waste

- Promoting recycling habits to city staff
- Completed study identifying alternative ways to divert bio-solids from landfill
- Completed Waste Audit of City Hall
- Implemented battery recycling collection and return program through Call2Recycling program
- Developed preliminary plan for decentralized waste transfer site

Water/Sewer

- Undertook feasibility study for Municipal Wastewater Treatment Facility
- Conducting a study to select more sustainable methods of treating wastewater
- Completed water audit
- Initiated a water systems energy report for waste water treatment facility
- Completed study of sewer and water energy use

Direct Corporate Actions

Direct actions refer to activities that can be directly implemented by local government.

Building and Lighting

- Implemented Energy retrofits for City buildings
- Chiller upgrades to reduce heating and cooling
- Renovation upgrades of HVAC system for library/museum
- Began energy upgrades of recreation centres (following 2008 energy audit)
- Developed Night Sky Bylaw to regulate outdoor lighting on corporate properties
- Replaced signage with higher efficiency lighting
- LED street light pilot project

Energy Generation

- Geo-exchange heating and cooling system installed at new arena
- Solar hot water installed at community centre
- Installed heat pumps in 25% of municipal buildings
- Made municipal hall solar ready
- Installation of wind mill at town office underway to support wind energy generation Installed heat reclamation system at aquatic centre
- Conversion of Municipal building to geothermal
- Installed solar panels at 3 eco-depot sites (reducing reliance on diesel generators)

Transportation

- Idle-free program underway
- Bicycles purchased for RCMP fleet
- Fleet upgrades
- Parks machinery stored in more central location to reduce travel emissions
- Employees utilizing fleet of five bikes provided by the municipality
- Reduced waste transportation volumes by 50% through implementation of recycling, waste diversion and compaction
- Replaced zamboni with new energy efficient model

Waste

- Banned the sale and use of bottled water in all municipal facilities
- Containers in staff areas at select civic facilities for the collection and diversion of food scraps
- Food digester for organic waste installed at District Hall
- Eliminated use of disposable dishes in offices
- Completed a multi-cell landfill closure that focused on cutting GHG emissions
- Wood chipping pilot project to eliminate landfill burning

Water/Sewer

- Installed rain gauges and flow control on irrigation systems
- Low-flush toilets installed in civic buildings
- Water efficiency upgrades for all municipal buildings
- Building an 'effluent water reuse plant' (potential to save 15% water use)
- Replaced two sewer pumps with new, energy efficient pumps