

2015 CARIP Climate Action/Carbon Neutral Progress Survey

BROAD PLANNING ACTIONS

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

COMMUNITY-WIDE

2015 Community-Wide Broad Planning Actions

Variable	Response
2015 Community-Wide Broad Planning Actions	Developed the Community Energy and Emissions Plan CEEP) (through the BC Hydro Quickstart program)
2015 Community-Wide Broad Planning Actions	Began the Zoning Bylaw review and preliminary review of the Development Permit Area Guidelines.
2015 Community-Wide Broad Planning Actions	Updated the Community Sustainability Checklist and included it in the new Development Cost Charge Reduction Bylaw (developments over a specified density achieve a reduction, as do developments that achieve a target score on the Community Sustainability Checklist).
2015 Community-Wide Broad Planning Actions	Staff participation on the task force for the Cowichan Valley Regional District's regional integrated climate change and sustainability strategy.
2015 Community-Wide Broad Planning Actions	Adopted the University Village Local Area Plan (including policies for smart growth, transportation, energy efficiency and water conservation) as an amendment to the Official Community Plan.

2016 Community-Wide Broad Planning Proposed Actions

Variable	Response
2016 Community-Wide Broad Planning Proposed Actions	Develop an implementation plan for the CEEP.
2016 Community-Wide Broad Planning Proposed Actions	Adopt the new Zoning Bylaw, and begin review of the Official Community Plan and Development Permit Area Guidelines (including incorporating the University Village Local Area Plan objectives and policies in appropriate areas).
2016 Community-Wide Broad Planning Proposed Actions	Conduct a Citizen Satisfaction Survey.
2016 Community-Wide Broad Planning Proposed Actions	Develop a sustainability monitoring program based on the Integrated Community Sustainability Plan actions.
2016 Community-Wide Broad Planning Proposed Actions	Continue to work with other jurisdictions and partners on regional initiatives, such as the Regional Airshed Protection Strategy implementation and the Cowichan Watershed Board.

CORPORATE

2015 Corporate Broad Planning Actions

Variable	Response
2015 Corporate Broad Planning Actions	Incorporated sustainability actions in the corporate Strategic Plan- provided quarterly reports from each department to Council on Strategic Plan implementation
2015 Corporate Broad Planning Actions	Continued the Environment and Sustainability Committee- added a youth member to the committee
2015 Corporate Broad Planning Actions	Participated in the regional Earth Day event.

2016 Corporate Broad Planning Proposed Actions

Variable	Response
2016 Corporate Broad Planning Proposed Actions	Develop an asset management plan.
2016 Corporate Broad Planning Proposed Actions	Continue Strategic Plan reporting.

SNAPSHOT QUESTIONS

Does your local government set aside funds in a climate reserve fund or something similar?

No

Does your local government have a corporate GHG reduction plan?

No

What is your current GHG reduction target (s) as identified in your OCP or RGS?

UNKNOWN

Has your local government used the Community Energy and Emissions Inventory (CEEI) to measure progress?

Yes

What plans, policies or guidelines govern the implementation of climate mitigation in your community?

- Energy and Emissions Plan
- Integrated Community Sustainability Plan
- OCP

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.

COMMUNITY-WIDE

2015 Community-Wide Building and Lighting Actions

Variable	Response
2015 Community-Wide Building and Lighting Actions	Updated the Community Sustainability Checklist to include more energy efficiency points, and incorporated the checklist into the DCC Reduction Bylaw.
2015 Community-Wide Building and Lighting Actions	Partnered with the Municipality of North Cowichan and City Green Solutions to provide a free energy efficiency workshop for residents.

2016 Community-Wide Building and Lighting Proposed Actions

Variable	Response
2016 Community-Wide Building and Lighting Proposed Actions	Include incentives and regulations for building and lighting innovation in the new Zoning Bylaw.
2016 Community-Wide Building and Lighting Proposed Actions	Explore other opportunities, such as a residential energy efficiency rebate program, and promotion of existing programs from service providers and the Province, through the CEEP implementation.

CORPORATE

2015 Corporate Building and Lighting Actions

Variable	Response
2015 Corporate Building and Lighting Actions	Included lighting and building envelope improvements in the Fire Hall seismic upgrade project.
2015 Corporate Building and Lighting Actions	Installed LED lighting in the Canada Avenue and Ingram Street intersection update project (overhead lighting and signals).
2015 Corporate Building and Lighting Actions	Undertook lighting improvements at City Hall and installed hydrodans to use waste heat from the HVAC system to heat radiators.

2016 Building and Lighting Proposed Actions

Variable	Response
2016 Building and Lighting Proposed Actions	Complete a corporate building inventory and assessment (to identify opportunities for improvements and upgrades).
2016 Building and Lighting Proposed Actions	Include LED lighting in the Canada Avenue and Government Street / Trunk Road intersection update design.

ENERGY GENERATION ACTIONS

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

COMMUNITY-WIDE

2015 Community-Wide Energy Generation Actions

Variable	Response
2015 Community-Wide Energy Generation Actions	In the regional Central Sector Liquid Waste Management Plan development, energy generation opportunities were analyzed.

2016 Community-Wide Energy Generation Proposed Actions

Variable	Response
2016 Community-Wide Energy Generation Proposed Actions	Incorporate regulations encouraging energy innovation in the new Zoning Bylaw.

CORPORATE

2015 Corporate Energy Generation Actions

Variable	Response
2015 Corporate Energy Generation Actions	Installed a solar powered speed reader board on Government Street.

2016 Energy Generation Proposed Actions

Variable	Response
2016 Energy Generation Proposed Actions	Explore opportunities for energy innovation, including district energy, with regional partners, including for jointly owned buildings and infrastructure.

SNAPSHOT QUESTIONS

Is your local government connected to a district energy system that is operated by another energy provider?

No

Are you aware of the Integrated Resource Recovery guidance page on the BC Climate Action Toolkit? <http://www.toolkit.bc.ca/tool/integrated-resource-recovery-irr>

Yes

GREENSPACE ACTIONS

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.

COMMUNITY-WIDE

2015 Community-Wide Greenspace Actions

Variable	Response
2015 Community-Wide Greenspace Actions	Issued tree rebate coupons to residents to encourage planting more trees.
2015 Community-Wide Greenspace Actions	Adopted the Tree Protection Bylaw to regulate tree removal and replacement.
2015 Community-Wide Greenspace Actions	Permitted residents to plant alternative landscaping on City boulevards, through Non-Standard Landscaping Permits under the Boulevard Maintenance Bylaw.

2016 Community-Wide Greenspace Proposed Actions

Variable	Response
2016 Community-Wide Greenspace Proposed Actions	Continue implementation of the Urban Forest Strategy and Tree Protection Bylaw.

CORPORATE

2015 Corporate Greenspace Actions

Variable	Response
2015 Corporate Greenspace Actions	Planted 14 new trees on City property and replaced 12 trees.
2015 Corporate Greenspace Actions	Provided grant in aid funding for improvements to the Jubilee Community Gardens.

2016 Greenspace Proposed Actions

Variable	Response
2016 Greenspace Proposed Actions	Plant trees and other landscaping where possible.
2016 Greenspace Proposed Actions	Replace a 30 metre long hedge at the Fire Hall with trees and new plants (with Tree Canada grant funding).
2016 Greenspace Proposed Actions	Include park acquisition for the Centennial Heights/Cairnsmore area in the new DCC bylaw.

SNAPSHOT QUESTION

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

Yes

SOLID WASTE ACTIONS

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

2015 Community-Wide Solid Waste Actions

Variable	Response
2015 Community-Wide Solid Waste Actions	Expanded the yard waste pickup program.

2016 Community-Wide Solid Waste Proposed Actions

Variable	Response
2016 Community-Wide Solid Waste Proposed Actions	Develop new public information materials on various waste programs (i.e. recycling).

CORPORATE

2015 Corporate Solid Waste Actions

Variable	Response
2015 Corporate Solid Waste Actions	Composted plant waste from parks at the Public Works yard.
2015 Corporate Solid Waste Actions	Staff attended regional meetings on solid waste improvements (i.e. reducing recycling contamination).

2016 Solid Waste Proposed Actions

Variable	Response
2016 Solid Waste Proposed Actions	Implement a pilot recycling and compost program in the downtown.
2016 Solid Waste Proposed Actions	Continue to work on improvements to solid waste pickup programs.

SNAPSHOT QUESTIONS

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

TRANSPORTATION ACTIONS

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

2015 Community-Wide Transportation Actions

Variable	Response
2015 Community-Wide Transportation Actions	Installed over 1 kilometre of new bike lanes on Canada Avenue and Government Street - included green painted areas at intersections and conflict areas
2015 Community-Wide Transportation Actions	Continued the transit pass rebate program and met with CVRD staff to recommend transit improvements.
2015 Community-Wide Transportation Actions	Met with Cowichan Tribes staff and provided feedback on the development of the Cowichan Tribes Transportation and Mobility Plan.
2015 Community-Wide Transportation Actions	Provided two dual-head Level II electric vehicle charging stations, free of charge.

2016 Community-Wide Transportation Proposed Actions

Variable	Response
2016 Community-Wide Transportation Proposed Actions	Undertake a pedestrian corridor study for Coronation Avenue and redesign of the Canada Avenue and Government Street / Trunk Road intersection- will include recommendations for improvements to improve walkability.
2016 Community-Wide Transportation Proposed Actions	Continue the transit pass rebate program and working with partners on transit improvements.
2016 Community-Wide Transportation Proposed Actions	Install an accessible railway crossing in Charles Hoey Park.
2016 Community-Wide Transportation Proposed Actions	Continue the implementation of the Trans Canada Corridor Management Plan and Duncan Area Active Transportation Plan- including planning active transportation safety improvements, such as a multi-use pathway on the east side of the highway

CORPORATE

2015 Corporate Transportation Actions

Variable	Response
2015 Corporate Transportation Actions	Utilized a bike courier for transporting documents between City Hall and the Public Works yard.
2015 Corporate Transportation Actions	Provided bicycles and bicycle safety training for City Hall and Public Works staff.
2015 Corporate Transportation Actions	Followed regular maintenance programs, considered fuel efficiency for fleet replacement, and monitored vehicle usage.

2016 Transportation Proposed Actions

Variable	Response
2016 Transportation Proposed Actions	Continue existing transportation and efficiency programs and expand where possible.
2016 Transportation Proposed Actions	Provide a grant in aid for Cowichan Energy Alternatives programs.

SNAPSHOT QUESTIONS

Does your local government have policies, plans or programs to support:

• Walking
• Cycling
• Transit
• Electric Vehicles

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

WATER AND WASTEWATER ACTIONS

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.

COMMUNITY-WIDE

2015 Community-Wide Water and Wastewater Actions

Variable	Response
2015 Community-Wide Water and Wastewater Actions	Installed residential water meters for City water customers in Eagle Heights (CVRD Electoral Area E) and Cowichan Tribes lands.
2015 Community-Wide Water and Wastewater Actions	Worked with regional partners to establish region wide water restrictions.
2015 Community-Wide Water and Wastewater Actions	Reported weekly water consumption during the water restriction period, for the CVRD “New Normal” website.
2015 Community-Wide Water and Wastewater Actions	Took part in the Cowichan Watershed Board water conservation challenge.
2015 Community-Wide Water and Wastewater Actions	Issued free “Tap by Tap” water and energy savings to residents.

2016 Community-Wide Water and Wastewater Proposed Actions

Variable	Response
2016 Community-Wide Water and Wastewater Proposed Actions	Continue residential water meter installation, for City and Municipality of North Cowichan water customers.
2016 Community-Wide Water and Wastewater Proposed Actions	Continue to work with regional partners on standardized regional water restrictions and other water conservation initiatives.
2016 Community-Wide Water and Wastewater Proposed Actions	Adopt the new Development Cost Charge Bylaw, with updated projects including water, stormwater and wastewater improvements.
2016 Community-Wide Water and Wastewater Proposed Actions	Continue to work with Joint Utilities Board (JUB- secure funding for relocation of the JUB outfall and other improvements- work with North Cowichan staff on a JUB governance study
2016 Community-Wide Water and Wastewater Proposed Actions	Develop a works and services bylaw and stormwater dispersal guidelines for development.

CORPORATE

2015 Corporate Water and Wastewater Actions

Variable	Response
2015 Corporate Water and Wastewater Actions	Implemented water conservation actions during watering restricting periods, including reduced watering in City parks and planting areas.

2016 Water and Wastewater Proposed Actions

Variable	Response
2016 Water and Wastewater Proposed Actions	Continue to implement and monitor water conservation actions.
2016 Water and Wastewater Proposed Actions	Provide a grant in aid to the Jubilee Community Gardens (in Centennial Park) for installation of a micro-irrigation system.

SNAPSHOT QUESTION

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

Yes

SNAPSHOT QUESTIONS

Are you familiar with the Plan2Adapt guidance located on the Climate Action Toolkit Website? <http://www.toolkit.bc.ca/Resource/Plan2Adapt>

Yes

Are you familiar with "Preparing for Climate Change - An Implementation Guide for Local Governments in BC? <http://www.toolkit.bc.ca/Resource/Preparing-Climate-Change-Implementation-Guide-Local-Governments-British-Columbia>

Yes

Have you visited the climate change adaptation guidance page on the BC Climate Action Toolkit? <http://www.toolkit.bc.ca/adaptation-challenges-and-opportunities>

Yes

2016 Other Proposed Actions

Variable

Response

2016 Other Proposed
Actions |

Provided feedback to the Province on the Climate Action Plan update, with a letter from Council as well as staff participation in regional events.

2015 Carbon Neutral Progress Reporting

Local governments are required to report on their progress in achieving their carbon neutral goal under the Climate Action Charter. Working with B.C. local governments, the joint Provincial-UBCM Green Communities Committee has established a common approach to determining carbon neutrality for the purposes of the Climate Action Charter, including a Carbon Neutral Framework and supporting guidance for local governments on how to become carbon neutral. Prior to completing this survey, please ensure that you are familiar with guidance available on the B.C. Climate Action Toolkit website, especially *Becoming Carbon Neutral: A Guide for Local Governments in British Columbia*.

Did you measure your local government's corporate GHG emissions in 2015?

Yes

If your local government measured 2015 corporate GHG emissions, please report the number of corporate GHG emissions from services delivered directly by your local government:

(in tonnes of carbon dioxide equivalent)

216.3

If your local government measured 2015 corporate GHG emissions, please report the number of corporate GHG emissions from contracted services:

(in tonnes of carbon dioxide equivalent)

156.5

Total Corporate GHG Emissions for 2015: 372.8 tCO₂e

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 (Green Communities Committee (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

Reductions

If applicable, please report the 2014 GHG emissions reductions being claimed from Option 1 GHG Reduction Projects:

Energy Efficient Retrofits

(in tonnes of carbon dioxide equivalent (tCO₂e))

(No response)

Solar Thermal

(in tonnes of carbon dioxide equivalent (tCO₂e))

(No response)

Household Organic Waste Composting

(in tonnes of carbon dioxide equivalent (tCO₂e))

83.8

Low Emission Vehicles

(in tonnes of carbon dioxide equivalent (tCO₂e))

(No response)

Avoided Forest Conversion

(in tonnes of carbon dioxide equivalent (tCO₂e))

(No response)

2015 OPTION 1 REDUCTIONS = 83.8 tCO₂e

Offsets

If applicable, please report the number of offsets purchased from an offset provider for the 2015 reporting year. Note: Please do not include funds set aside in a climate action reserve fund.

(in tonnes of carbon dioxide equivalent (tCO₂e))

289

If your local government purchased offsets , please identify the name of the offset provider:

Community Carbon Marketplace

2015 OFFSETS = 289 tCO₂e

2015 REDUCTIONS AND OFFSETS = 372.8 tCO₂e

Corporate GHG Emissions Balance for 2015

2015 CORPORATE GHG EMISSIONS BALANCE: 0.0 tCO₂e

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

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 2015 Climate Action/Carbon Neutral Progress Survey, please check the GCC Climate Action Recognition Program level that best applies:

Level 3 - Achievement of Carbon Neutrality