

Climate Action Revenue Incentive Program (CARIP) Public Report for 2015

A summary of community and corporate actions that help reduce greenhouse gas emissions

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1435 Water Street
Kelowna, BC V1Y 1J4
TEL 250 469-8610
FAX 250 862-3349
email@kelowna.ca

kelowna.ca

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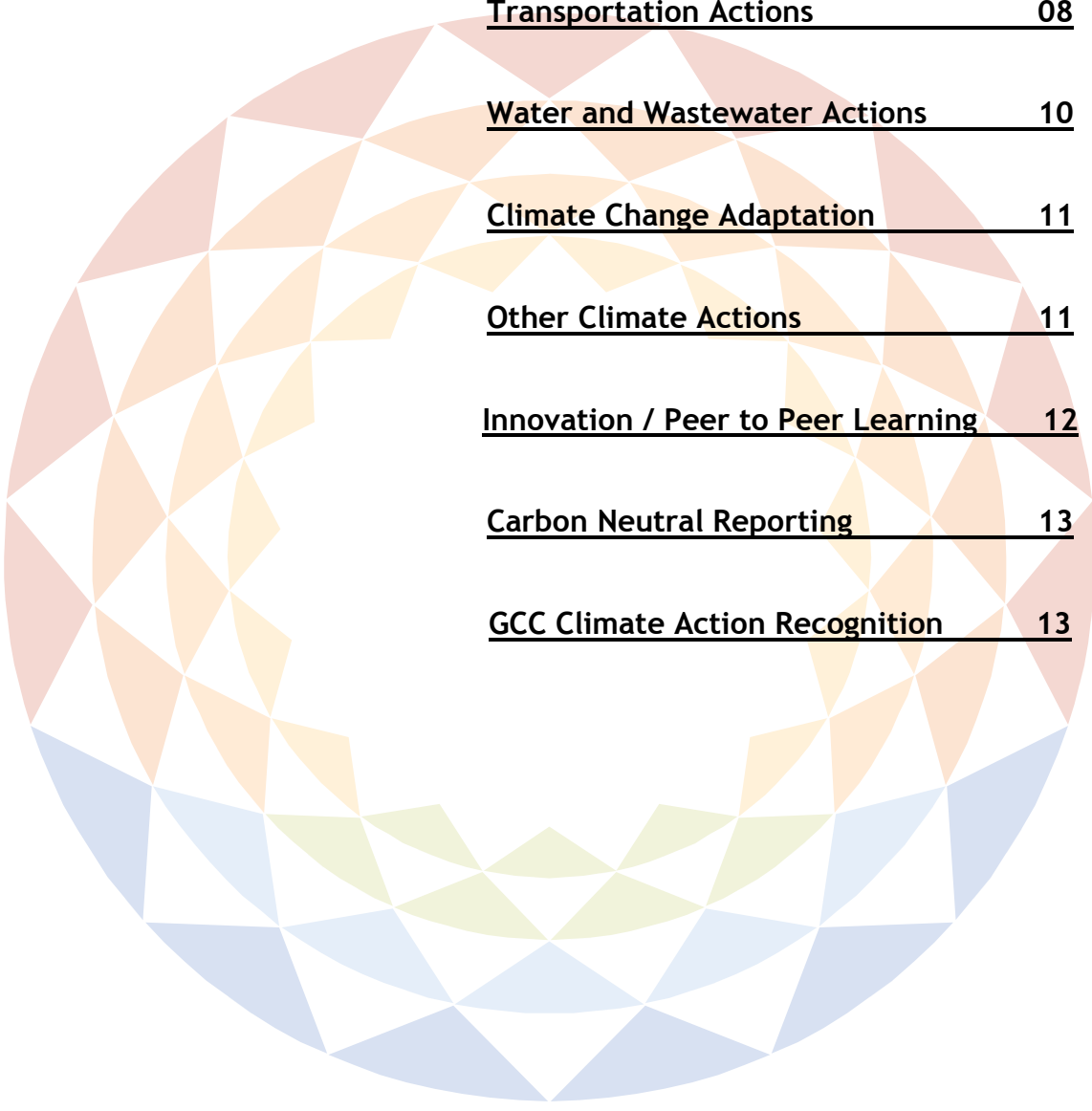
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The City of Kelowna has completed the 2015 Climate Action Revenue Incentive Program (CARIP) Public Report as required by the Province of BC. The CARIP report summarizes actions taken in 2015 and proposed for 2016 to reduce corporate and community-wide 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.

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, centred) plays an especially important role in energy and GHG reduction.

| Community-Wide Actions Taken in 2015 | |
|---|--|
| | Formed the Healthy City Strategy partnership between City of Kelowna and Interior Health with a vision of “working together to create built environments in which people and places thrive”. As part of this, a Healthy City Strategy will be developed with 6 theme areas: Healthy Transportation, Healthy Housing, Healthy Neighbourhood Design, Healthy Food Systems, Healthy Natural Environments and Community for All Ages. Climate action will be incorporated into each theme area of the Healthy City Strategy. |
| | Initiated the Urban Centres Roadmap project which will emphasize key principles, targets and priorities needed to transform Kelowna’s five urban centres over the coming years. These urban centres are a core element in the overall strategy to reduce GHG emissions by focusing future growth into compact, walkable, energy-efficient and transit-friendly nodes. |
| | Initiated the Infill Challenge, an innovative design competition aiming to identify new forms of sensitive infill housing. Expanding the opportunities for infill housing will ultimately reduce the pressure for urban sprawl, and will help build neighbourhoods that are less auto-dependent. (see http://www.kelowna.ca/CM/Page4804.aspx for details) |
| | Began work on the Civic Precinct Plan which supports the Downtown Plan and OCP goals by encouraging more compact development and greater density downtown. When complete, the Plan will also emphasize the importance of transforming downtown to be more people friendly and supportive of active transportation through the design of streets, public spaces and pathways. (see http://www.kelowna.ca/CM/Page4778.aspx for details) |
| | Completed Regional Strategic Transportation Plan Phase I, current situation and gaps, and applied for Gas Tax funding for Phase II. |
| | Developed Pedestrian & Bicycle Master Plan to accommodate pedestrians & cyclists of all ages & abilities. |
| | The Regional Board endorsed the Regional Clean Air Strategy. |
| Community-Wide Actions Proposed for 2016 | |
| | Launch the first theme area for the Healthy City Strategy: Community for All Ages which will incorporate policies and actions for seniors, children and those with different levels of abilities. This theme area will look at actions that will be co-benefits to climate reduction (i.e. alternative forms of transportation). |
| | Finalize the Urban Centres Roadmap, obtain Council endorsement and develop implementation |

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| | tools. |
| | Complete the Infill Challenge, evaluate submissions and obtain Council endorsement of winners and strategy for implementation. |
| | Council endorsed the Civic Precinct March 2016. |
| | Successfully obtained a 600K Gas Tax grant to develop the first comprehensive Regional Strategic Transportation Plan with emphasis in sustainable transportation. Project to start in the fall 2016 and to finalized in the Fall of 2018. |
| | Complete Pedestrian Bicycle Master Plan and begin implementation. (see www.kelowna.ca/onthemove). |

| Corporate Actions Proposed for 2016 | |
|--|---|
| | Update the Corporate Energy and Emissions Plan identifying new actions that can be taken to lower corporate energy use and GHG emissions. |

| Snapshot Questions | |
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| What GHG reduction targets are included in your local government's Official Community Plan or Regional Growth Strategy? <i>33% below 2007 levels by 2020</i> | Yes |
| Are you familiar with the Community Energy and Emission Inventory (CEEI)? | Yes |
| Does your local government use the Community Energy and Emissions Inventory (CEEI) to measure progress? | Yes |
| Which of the following does your local government use to guide climate action implementation? | |
| • Community Energy and Emissions (CEE) Plan | No |
| • Climate Action Plan | Yes |
| • Integrated Community Sustainability Plan | No |
| • Official Community Plan (OCP) | Yes |
| • Regional Growth Strategy (RGS) | Yes |
| Does your local government have a climate action reserve fund? | Yes |
| Does your local government have a Corporate Climate Action Plan? | Yes |

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.

| Community-Wide Actions Taken in 2015 | |
|---|--|
| | Promoted FortisBC's free energy efficiency assessments for small and medium sized businesses on City's business licenses webpage. |
| Community-Wide Actions Proposed for 2016 | |
| | Promoted FortisBC's free energy efficiency assessments for small and medium sized businesses on City's water utility bills for commercial businesses. |
| | Partnered with FortisBC to promote their Rental Apartment Efficiency Program that will help reduce energy costs for owners and help towards the goal of reducing community greenhouse gas emissions. |
| Corporate Actions Taken in 2015 | |
| | Upgraded the boiler at Rutland Arena saving 50 tonnes of GHG and 996 GJ of natural gas. |
| | Hired an energy specialist in partnership with Fortis BC. |
| Corporate Actions Proposed for 2016 | |
| | Upgraded the boiler at City Yards saving 44 tonnes of GHG and 890 GJ of natural gas |
| | Replaced the Cedar Creek Pump saving 0.24 tonnes of GHG and 100,000 kWh of electricity |
| | Upgraded outdoor lighting to LED lights at the Wastewater Treatment Facility saving 0.09 tonnes of GHG and 39,000 kWh of electricity |
| | Upgrade 222 HPS lights at Kelowna Airport to LED resulting in 117,953 kWh/year energy savings. FortisBC rebate of \$17,693 and annual utility savings of \$7,600. |
| | Installed a heat recovery system at Rutland Arena saving 122 tonnes GHG and 2460 GJ natural gas |
| | Installed new lighting at the Kelowna Community Theater reducing wattage by 97% compared to the old system. |
| | Will begin planning for conversion of street lighting to LED (to implement in 2017) which will save 3.5 million kWh of electricity and 8.5 tonnes of GHG |
| | Partner with Fortis to educate building inspectors, plan checkers and planning staff on FortisBC energy efficiency programs so they can pass information on to public. |

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.

| Corporate Actions Taken in 2015 | |
|--|---|
| | Fortis BC constructed a conversion facility at the Glenmore Landfill to enable landfill gas to be upgraded to pipeline natural gas quality. Fortis and the City are partnering in this project through a Landfill Gas Purchase Agreement where the City will provide landfill gas to the conversion facility for use by FortisBC. |
| Corporate Actions Proposed for 2016 | |
| | The conversion facility at Glenmore Landfill will be commissioned later this year and the City of Kelowna will provide Fortis BC landfill gas to be converted to pipeline natural gas quality. |

| Snapshot Questions | |
|---|------------|
| Is your local government developing, or constructing a district energy project? | No |
| Is your local government operating a district energy system? | No |
| Is your local government developing or constructing a renewable energy project? | Yes |
| Is your local government operating a renewable energy project? | No |
| Are you aware of the Integrated Resource Recovery guidance page on the BC Climate Action Toolkit? | No |

GREENSPACE/ NATURAL RESOURCE PROTECTION ACTIONS

Greenspace

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.

| Community-Wide Actions Taken in 2015 | |
|---|--|
| | Planted 8000 ponderosa seedlings in the City’s natural parks (these plantings are assisting with the trees that have been lost over the past 5 years due to forest health issues such as pine beetle, Tussock Moth, drought and snow damage). Also planted 200 large caliper trees in City parks and on boulevards. At least one hundred new trees were inherited as a requirement of new developments. |
| | Updated tree inventory system which currently has approximately 25,000 trees in the inventory. The inventory is growing each year. |
| | Sold 500 large caliper trees to the public through the NeighbourWoods program (see http://www.kelowna.ca/CM/page2205.aspx for details). |
| | Initiated work on Tree Management Plan for Mill Creek with a grant from the Okanagan Basin Water Board (OBWB) – Water Conservation and Quality Improvement Grant Program. |
| | Partnering with the Mission Creek Restoration Initiative, began implementation of stage 1 of the Mission Creek Restoration Initiative to realigning a 500-metre section of dike on the south side of the creek so that fish and wildlife stocks will be increased by enhancing their habitats within the expanded floodplain (see http://www.missioncreek.ca/restoration-project/phase-one-construction-fact-sheet/) for details. |
| Community-Wide Actions Proposed for 2016 | |
| | Ramping up tree planting program this spring and fall, in hopes to plant more trees than in previous years to maximize the healthy tree planting reserve. Further, will be ordering additional Ponderosa |

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| | Pine seedlings to plant in natural parks. |
| | Introduce a Tree Protection Policy. |
| | Starting to plant trees bare root as the quality of the roots is higher and the cost of installation are lower. |
| | Sold 500 large caliper trees to the public through the NeighbourWoods program with plans to continue the program in 2017. |
| | Complete stage 1 of Mission Creek Restoration Initiative to realign a 500-metre section of dike. Will implement stage 2 of Mission Creek Restoration Initiative to restore fish habitat within the expanded floodplain, including creating meanders and pools, and planting with indigenous riparian species. |

| Snapshot Question | |
|---|------------|
| Does your local government have urban forest policies, plans or programs? (Urban Forest Strategy, U-Fore Analysis, Strata Report) | Yes |

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 | |
|---|---|
| | Initiated Solid Waste Management Plan Update. Note: this is a regional initiative and the City of Kelowna has representation on the Advisory Committee. |
| | Sold 266 units in City of Kelowna as part of the regional Annual Composter sale and composting education. |
| | Continued the Commercial Diversion Program (i.e. monitoring commercial load for mandatory recyclables). |
| | Hosted 4 Reuse events, 2 trunk sales and 2 repair cafés. |
| | Completed extensive education on recycling in support of MMBC recycling program. |
| | Regional Waste Reduction Office used the Routeware program, which monitors curbside cart contents using camera's and RFID tags, to send letters to 2380 City of Kelowna residents to provide specific, targeted waste reduction. |
| | Monitored and cleaned up illegal dumpsites. |
| | Promoted Community Cleanup Month which saw 46 groups and 1074 volunteers in the region. |
| | Launched a new myWaste App plug in on RDCO website. This app provides extensive search database on what goes where. (for more information see http://www.regionaldistrict.com/your-services/waste-reduction-office/my-waste-app.aspx) |
| | Continued year round Household Hazardous Waste depot. |
| Community-Wide Actions Proposed for 2016 | |
| | Complete Solid Waste Management Plan Update by fall 2016. Note: this is a regional initiative and |

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| | the City of Kelowna has representation on the Advisory Committee. |
| | Continue offering an annual composter sale and composting education. |
| | Continue the Commercial Diversion Program. |
| | Offer 4 Reuse events. |
| | Continue recycling education |
| | Continue Routeware program. |
| | Continue illegal dumping program. |
| | Continue Community Cleanup program. |
| | Continue Household Hazardous Waste depot. |

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| Corporate Actions Taken in 2015 | |
| | Constructed a staff composter at Parkinson Recreation Centre building. |
| Corporate Actions Proposed for 2016 | |
| | Launch composter for staff at Parkinson Recreation Centre. |
| | Construct a sewer lift station and landfill leachate will be directed to this station. |
| | Begin construction of a leachate recirculation system (operational 2017) which will increase biogas and accelerate decomposition creating more air space for future filling. |
| 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? (City of Kelowna has yard waste only collection program) | No |

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.

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| Community -Wide Actions Taken in 2015 | |
| | Delivered a slate of sustainable travel programs including Bike to Work/School Week, cycling education for youth, carpool/rideshare, walking programs for youth and communities, transit promotions and programming. |
| | Renewed UBCO transit U-Pass which ensures continued high transit ridership from students. |
| | Developed phase 1 of the Transit Prioritization Framework, a framework that uses multi-criteria analysis to evaluate and allocate transit service where it is more effective. |
| | Constructed 2,340 m of sidewalk, 2,060 m of bike lanes, 900 m of cycle tracks, and 620 m of shared-use paths. |
| | Improved supporting pedestrian infrastructure including 1 count station, 4 activated flashers, 1 pedestrian traffic signal and 1 crossing improvement. |
| | Partnered with Fortis BC to research and develop locations and infrastructure for 2, level 2 electric vehicle charging stations in downtown Kelowna. |
| | Substantial completion of the Kelowna Regional Rapid Bus project. This completes a project where |

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| | planning started in 2004-05. |
| | Began Clean Air and Safe Routes 4 Schools programs at 2 elementary schools (Pearson and Raymer Elementary) to increase active transportation to and from school. |
| | The local/regional government partners undertook a transit fare structure review. A new fare structure came into effect in September. Revenue for regional transit was up 7% higher than even the fare changes. |
| Community-Wide Actions Proposed for 2016 | |
| | Complete a three-year Transportation Demand Management Plan to prioritize social marketing programs targeting the reduction of single occupant vehicle travel. |
| | Deliver a slate of sustainable travel programs including Bike to Work/School Week, cycling education for youth, carpool/rideshare, walking programs for youth and communities, transit promotions and programming. |
| | Work with Interior Health to develop a new Employer Transit Pass program for all Interior Health employees. |
| | Continue with the Sustainable Transportation Partnership of the Central Okanagan, a partnership between local governments in the central Okanagan to strategically deliver sustainable transportation programs and plans. |
| | In collaboration with BC Transit, work on the Transit Future Plan, 5 year service plan and a long term plan that will be part of the Regional Strategic Transportation Plan. |
| | Installed 2 electric vehicle charging stations in the downtown core in partnership with Fortis BC. |
| | Adjusted parking rates so that they are above the cost of a monthly transit pass to encourage transit use. |
| | Will construct 800 m of sidewalk, 2,200 m of bike lanes, 2,800 m of buffered bike lanes, and 1,100 m cycle tracks. |
| | Will install 3 pedestrian activated flashers and improve pedestrian crossings at 4 locations. |
| | Will continue the Clean Air and Safe Routes 4 Schools programs at 2 elementary schools (Pearson and Raymer Elementary) to increase active transportation to and from school. |

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| Corporate Actions Taken in 2015 | |
| | Continued to use up to 20% bio-diesel. |
| | Continued to expand GPS program. |
| | Overall fleet fuel use reduction compared to 2014. |
| | Provided Smart Driver education program to 38 staff. |
| | Completed a Landfill Natural Gas Fill Station study. |
| Corporate Actions Proposed for 2016 | |
| | Will add 1 Electric vehicle and 9 hybrid vehicles to the fleet. |
| | Will continue to use up to 20% bio-diesel. |
| | Will continue to expand GPS program. |
| | Will continue Smart Driver education program to staff. |

| Snapshot Questions | |
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| Does your local government have policies, plans or programs to support: <ul style="list-style-type: none"> • Walking • Cycling • Transit Use • Electric Vehicle Use | Yes Yes Yes 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)? | Yes |
| Does your local government have policies, plans or programs to support local food production (thus reducing transportation emissions)? (urban farming, community gardens, multi-residential gardens) | Yes |

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.

| Community-Wide Actions Taken in 2015 | |
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| | Implemented temporary water use restrictions in response to Provincial drought. This resulted in roughly 20% drop in water consumption in August and September. |

| Corporate Actions Taken in 2015 | |
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| | WWTF continued with monitoring of power and gas usage to help identify possible savings. |
| Corporate Actions Proposed for 2016 | |
| | Will continue to monitor power and gas usage at the Waste Water Treatment Facility to help identify possible savings. |

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

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 Proposed for 2016 | |
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| | Passed a bylaw to implement permanent water use restrictions (irrigation limited to 3 days per week) and a 4 stage drought response plan. |

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

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 | |
|--------------------------------------|---|
| | Partnered with UBC to study Urban Density and Greenhouse Gas Emissions, which examined various density scenarios in Kelowna and computed the resulting greenhouse gas emissions each would produce from building energy and transportation. |
| | Began data collection to study “Spatiotemporal Variation of PM2.5 in the Central Okanagan Region.” |
| | Drafted a Regional Anti-Idling Bylaw. |
| | Drafted strategies to reduce smoke in the Central Okanagan including discussion about bylaw changes to Open Burning-Wood Appliances-Campfires. |
| | Reduced 75 tonnes of particulate matter (PM10 and PM2.5), 174 tonnes of carbon monoxide and 17 tonnes of volatile organic compounds through several Air Quality Initiatives (Agricultural Chipping program, Woodstove Exchange, etc.). |
| | 19 woodstoves were exchanged through the annual Woodstove Exchange Program. |

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| | Hosted two regional Wood Heating Workshops. |
| Community-Wide Actions Proposed for 2016 | |
| | Completed Urban Density and Greenhouse Gas Emissions study with UBC. |
| | Will analyze data for “Spatiotemporal Variation of PM2.5 in the Central Okanagan Region” by a summer student with support of Ministry of the Environment. |
| | Will present the draft Anti-Idling Bylaw to RDCO Board. |
| | Will finalize Strategies to Reduce Smoke in the Central Okanagan including a discussion on potential bylaw changes. |
| | 51 rebates are available in 2016 through the Woodstove Exchange Program. |
| | Hosted a Wood Heating Workshop in April. |

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.

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| Community-Wide Innovative Action |
| <ul style="list-style-type: none"> NeighbourWoods is a very successful residential planting initiative developed by the City of Kelowna’s Parks Services department to encourage citizens to help grow and preserve Kelowna’s healthy urban forest. Since 2010, residents have purchased more than 2,500 discounted trees to plant on their properties. |
| Corporate Innovative Action |

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.

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| Programs and Funding |
| <ul style="list-style-type: none"> The City partners with School District #23 for a School Traffic Safety Officer position which does programming for students to encourage walking, cycling, and transit use. Bike BC and ICBC have provided funding for active transportation infrastructure. Gas Tax has provided funding for the Regional Strategic Transportation Plan with emphasis in sustainable transportation. Partnering with Interior Health on the Healthy City Strategy. Partnered with UBC for research on density and greenhouse gas reduction. Partnered with Fortis to promote their energy saving programs. |

2015 CARBON NEUTRAL REPORTING

Reporting Emissions

| | |
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| 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: | 6085 |
| 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: | ----- |
| TOTAL A: CORPORATE GHG EMISSIONS FOR 2015 | 6085 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 (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

TOTAL REDUCTION AND OFFSETS FOR 2015 = 0 tCO2e

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 = (6085 – (0)) = 6085 tCO2e

**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 | X |
| <input type="checkbox"/> | Level 3 - Achievement of Carbon Neutrality | |
| <input type="checkbox"/> | Not Sure | |