

# 2015 CARIP Climate Action/Carbon Neutral Progress Survey

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## Broad Planning

### 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

### COMMUNITY-WIDE BROAD PLANNING - 2015 ACTIONS

In the following section, please identify up to five community-wide Broad Planning actions taken in 2015 (one action per box). There is a separate box for additional actions that you wish to report.

### 2015 Community-Wide Broad Planning Actions

Variable	Response
2015 Community-Wide Broad Planning Actions	Parks Master Plan completion: The Parks Master Plan, which outlines a 10 year vision and implementation plan for Vernon’s parks system, was initiated in 2014 and completed in 2015. 2015 saw the additional consultation with the public and further refinement of the plan, and subsequent endorsement by Council. The Parks Master Plan builds on the Official Community Plan’s growth strategy of compact urban development, complete communities and transportation choice by strategically identifying new parkland acquisition and development in areas targeted for new development and in neighbourhoods where parkspace is beyond walking distance. This approach furthers the growth strategy, contributing to greenhouse gas emission reductions.
2015 Community-Wide Broad Planning Actions	Master Transportation Plan completion: The Master Transportation Plan, which outlines a 25 year vision and implementation plan for Vernon’s transportation network, was completed in 2015. The plan includes four sub strategies and plans: Road Network Plan, Transit Strategy, Pedestrian and Bike Master Plan and Transportation Demand Management Strategy. The plan continues to support the Official Community Plan’s growth strategy by strategically prioritizing road, transit, cycling and pedestrian investments to promote

	development and redevelopment in targeted growth areas. With its focus on shifting mode share to transit, cycling and walking, the Master Transportation Plan is a critical component to reducing GHG emissions in Vernon.
2015 Community-Wide Broad Planning Actions	Council's Strategic Plan 2015-2018 implementation: Council's Strategic Plan outlines a series of deliverables to be completed during this Council's term. Initiatives include continued implementation of the OCP, the Master Transportation Plan and Integrated Community Sustainability Planning.
2015 Community-Wide Broad Planning Actions	Development of 4 year Capital Plan which prioritizes works in the City Centre to stimulate redevelopment.
2015 Community-Wide Broad Planning Actions	

### Additional Community-Wide Actions Taken in 2015

For those communities that would like to provide additional actions - please list, separated by a forward slash /, any additional community-wide Broad Planning actions in the boxes below (optional).

(No response)

### COMMUNITY-WIDE BROAD PLANNING - ACTIONS PROPOSED FOR 2016

In the following section, please identify up to five community-wide Broad Planning actions proposed for 2016 (one action per box).

#### 2016 Community-Wide Broad Planning Proposed Actions

Variable	Response
2016 Community-Wide Broad Planning Proposed Actions	Integrated Community Sustainability Planning: Vernon will be exploring ways to build on the sustainability components of the OCP in 2016. This initiative would include further exploration and refinement of GHG emission targets.
2016 Community-Wide Broad Planning Proposed Actions	Polson Park Master Plan: A detailed plan for Vernon's most popular and high profile park. To be completed in 2017.
2016 Community-Wide Broad Planning Proposed Actions	Community Lake Access Plan: A detailed plan to develop over 40 lake access sites in Vernon, providing the community with better public access to Okanagan Lake.

2016 Community-Wide  
Broad Planning Proposed  
Actions |

2016 Community-Wide  
Broad Planning Proposed  
Actions |


## CORPORATE

### **CORPORATE BROAD PLANNING - 2015 ACTIONS**

In the following section, please identify up to five corporate Broad Planning actions taken in 2015 (one action per box). There is a separate box for additional actions that you wish to report.

#### **2015 Corporate Broad Planning Actions**

Variable	Response
2015 Corporate Broad Planning Actions	Corporate Sustainability Planning Initiation: Development of a comprehensive Corporate Sustainability Plan was initiated in 2015.
2015 Corporate Broad Planning Actions	
2015 Corporate Broad Planning Actions	
2015 Corporate Broad Planning Actions	
2015 Corporate Broad Planning Actions	

#### **Additional Corporate Actions Taken in 2015**

For those communities that would like to provide additional actions - please list, separated by a forward slash /, any additional corporate Broad Planning actions in the boxes below (optional).

(No response)

### **CORPORATE BROAD PLANNING - ACTIONS PROPOSED FOR 2016**

In the following section, please identify up to five community-wide Broad Planning actions proposed for 2016 (one action per box).

## 2016 Corporate Broad Planning Proposed Actions

Variable	Response
2016 Corporate Broad Planning Proposed Actions	Corporate Sustainability Planning (continuation): Work on this Corporate Sustainability Plan will continue in 2016.
2016 Corporate Broad Planning Proposed Actions	
2016 Corporate Broad Planning Proposed Actions	
2016 Corporate Broad Planning Proposed Actions	
2016 Corporate Broad Planning Proposed Actions	

## SNAPSHOT QUESTIONS

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

Yes

**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?

Goal of annual reduction in GHG emissions of 2%, until 2018, an overall goal of 12% reduction from 2007 levels.

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
- OCP
- Other, please specify...: Regional Growth Strategy; Master Transportation plan

### Building and Lighting

#### 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

#### COMMUNITY-WIDE BUILDING AND LIGHTING - 2015 ACTIONS

In the following section, please identify up to five community-wide Building and Lighting actions taken in 2015 (one action per box). There is a separate box for additional actions that you may want to report.

#### 2015 Community-Wide Building and Lighting Actions

Variable	Response
2015 Community-Wide Building and Lighting Actions	Recreation Centre installed new LED lighting in crawl space, front entry, offices and main lobby; new florescent lighting on bridge.
2015 Community-Wide Building and Lighting Actions	Kal Tire Place arena installed new LED advertising signs.
2015 Community-Wide Building and Lighting Actions	Civic Arena installed new florescent lighting.
2015 Community-Wide Building and Lighting Actions	
2015 Community-Wide Building and Lighting Actions	

## Additional Community-Wide Building and Lighting Actions Taken in 2015

For those communities that would like to provide additional actions - please list, separated by a “/”, any additional community-wide Building and Lighting actions in the boxes below (optional).

(No response)

## COMMUNITY-WIDE BUILDING AND LIGHTING - ACTIONS PROPOSED FOR 2016

In the following section, please identify up to five community-wide Building and Lighting actions proposed for 2016 (one action per box).

### 2016 Community-Wide Building and Lighting Proposed Actions

Variable	Response
2016 Community-Wide Building and Lighting Proposed Actions	Recreation Centre continue to install new LED lighting in hallway, entry way and weight rooms.
2016 Community-Wide Building and Lighting Proposed Actions	
2016 Community-Wide Building and Lighting Proposed Actions	
2016 Community-Wide Building and Lighting Proposed Actions	
2016 Community-Wide Building and Lighting Proposed Actions	

## CORPORATE

### CORPORATE BUILDING AND LIGHTING - 2015 ACTIONS

In the following section, please identify up to five corporate Building and Lighting actions taken in 2015 (one action per box). There is a separate box for additional actions that you may want to report.

### 2015 Corporate Building and Lighting Actions

Variable	Response
2015 Corporate Building and Lighting Actions	Completion of a comprehensive building asset management plan. This plan will allow for the scheduled replacement of older inefficient HVAC equipment and building systems with modern energy efficient equipment.

2015 Corporate Building and Lighting Actions |

Completion of the Kal Tire Place energy audit.

2015 Corporate Building and Lighting Actions |

2015 Corporate Building and Lighting Actions |

2015 Corporate Building and Lighting Actions |

### Additional Building and Lighting Corporate Actions Taken in 2015

For those communities that would like to provide additional actions - please list, separated by a “/”, any additional corporate Building and Lighting actions in the boxes below (optional).

(No response)

### CORPORATE BUILDING AND LIGHTING - ACTIONS PROPOSED FOR 2016

In the following section, please identify up to five corporate Broad Planning actions proposed for 2016 (one action per box).

#### 2016 Building and Lighting Proposed Actions

Variable	Response
2016 Building and Lighting Proposed Actions	Replace existing T8 and T12 fluorescent lighting in Fire Hall 2 with LED lighting. Replace all remaining incandescent light bulbs with LED equivalents in Fire Hall 2. Replace the existing metal halide wall mount fixtures with LED equivalents in Fire Hall 2.
2016 Building and Lighting Proposed Actions	Install occupancy sensors for lighting in Community Services Building. Replace existing compact fluorescent wall mount lighting fixtures in Community Services Building. Install daylight harvesting controls in Community Services Building.
2016 Building and Lighting Proposed Actions	Replace existing compact fluorescent wall mount lighting fixtures in Community Policing Office. Replace exterior HID light fixtures with LED equivalents on Community Policing Office. Install photocell and time clock on exterior lighting on Community Policing Office. Replace T12 fluorescent lights with LED light fixtures in Community Policing Office.

2016 Building and Lighting Proposed Actions |

Replace T12 fluorescent lights with LED light fixtures in Visitors Centre. Install photocell and time clock on exterior lighting on Visitors Centre. Install LED exit signs on applicable Visitor Centre doors. Install LED light fixtures in the Parkade.

2016 Building and Lighting Proposed Actions |

Continue to implement recommendations from The Kal Tire Place energy audit.

## Energy Generation

### 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

#### COMMUNITY-WIDE ENERGY GENERATION - 2015 ACTIONS

In the following section, please identify up to five community-wide Energy Generation actions taken in 2015 (one action per box). There is a separate box for additional actions that you may want to report.

#### 2015 Community-Wide Energy Generation Actions

Variable	Response
2015 Community-Wide Energy Generation Actions	
2015 Community-Wide Energy Generation Actions	
2015 Community-Wide Energy Generation Actions	
2015 Community-Wide Energy Generation Actions	
2015 Community-Wide Energy Generation Actions	

#### Additional Community-Wide Energy Generation Actions Taken in 2015

For those communities that would like to provide additional actions - please list, separated by a forward slash /, any additional community-wide Energy Generation actions in the boxes below (optional).



(No response)

## COMMUNITY-WIDE ENERGY GENERATION - ACTIONS PROPOSED FOR 2016

In the following section, please identify up to five community-wide Energy Generation actions proposed for 2016 (one action per box).

### 2016 Community-Wide Energy Generation Proposed Actions

Variable	Response
2016 Community-Wide Energy Generation Proposed Actions	
2016 Community-Wide Energy Generation Proposed Actions	
2016 Community-Wide Energy Generation Proposed Actions	
2016 Community-Wide Energy Generation Proposed Actions	
2016 Community-Wide Energy Generation Proposed Actions	

## CORPORATE

### CORPORATE ENERGY GENERATION - 2015 ACTIONS

In the following section, please identify up to five corporate Energy Generation actions taken in 2015 (one action per box). There is a separate box for additional actions that you may want to report.

### 2015 Corporate Energy Generation Actions

Variable	Response
2015 Corporate Energy Generation Actions	Installation of heat pump units on RCMP and Fire Hall 1 solar domestic hot water systems.
2015 Corporate Energy Generation Actions	
2015 Corporate Energy Generation Actions	
2015 Corporate Energy Generation Actions	
2015 Corporate Energy Generation Actions	

## Additional Corporate Energy Generation Actions Taken in 2015

For those communities that would like to provide additional actions - please list, separated by a forward slash /, any additional corporate Energy Generation actions in the boxes below (optional).

(No response)

## CORPORATE ENERGY GENERATION - ACTIONS PROPOSED FOR 2016

In the following section, please identify up to five community-wide Energy Generation actions proposed for 2016 (one action per box).

### 2016 Energy Generation Proposed Actions

Variable	Response
2016 Energy Generation Proposed Actions	
2016 Energy Generation Proposed Actions	
2016 Energy Generation Proposed Actions	
2016 Energy Generation Proposed Actions	
2016 Energy Generation Proposed Actions	

## SNAPSHOT QUESTIONS

**Is your local government developing or constructing...**

- None of the above

**Is your local government operating...**

- None of the above

**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**

**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**

**COMMUNITY-WIDE GREENSPACE - 2015 ACTIONS**

In the following section, please identify up to five community-wide Greenspace actions taken in 2015 (one action per box). There is a separate box for additional actions that you may want to report.

**2015 Community-Wide Greenspace Actions**

Variable	Response
2015 Community-Wide Greenspace Actions	Parks Master Plan completion: The Parks Master Plan, which outlines a 10 year vision and implementation plan for Vernon’s parks system, was initiated in 2014 and completed in 2015. 2015 saw the additional consultation with the public and further refinement of the plan, and subsequent endorsement by Council. The Parks Master Plan builds on the Official Community Plan’s growth strategy of compact urban development, complete communities and transportation choice by strategically identifying new parkland acquisition and development in areas targeted for new development and in neighbourhoods where parkspace is beyond walking distance. This approach furthers the growth strategy, contributing to greenhouse gas emission reductions.
2015 Community-Wide Greenspace Actions	Completion of Marshall Wetland Project: Completion of habitat restoration and flood protection project in the Okanagan Landing neighbourhood.
2015 Community-Wide Greenspace Actions	The City of Vernon completed the final phase of the Okanagan Landing Flood Protection Project late 2015. The project was made possible with funding from Province of British Columbia which allowed for a series of open and closed channels, wetlands, sedimentation and flow control structures to be

constructed primarily in fill areas adjacent to an existing wetland. The project provides significant flood protection for the area with conveyance of the 100 year storm and attenuation of storms in excess of 100 year return frequency. The engineered wetlands and ephemeral areas also provide additional habitat for red and blue listed species, as well as enhanced bio treatment of storm water. Overall the project provides long term greenhouse gas reduction with improved use of existing wetland areas, newly constructed wetlands and vegetated areas, and holistic approach to achieving the city's storm water goals and objectives through use of the natural environment.

2015 Community-Wide Greenspace Actions |

2015 Community-Wide Greenspace Actions |

### Additional Community-Wide Greenspace Actions Taken in 2015

For those communities that would like to provide additional actions - please list, separated by a forward slash /, any additional community-wide Greenspace actions in the boxes below (optional).

(No response)

### COMMUNITY-WIDE GREENSPACE - ACTIONS PROPOSED FOR 2016

In the following section, please identify up to five community-wide Greenspace actions proposed for 2016 (one action per box).

#### 2016 Community-Wide Greenspace Proposed Actions

Variable	Response
2016 Community-Wide Greenspace Proposed Actions	Polson Park Master Plan: A detailed plan for Vernon's most popular and high profile park. To be completed in 2017.
2016 Community-Wide Greenspace Proposed Actions	Community Lake Access Plan: A detailed plan to develop over 40 lake access sites in Vernon, providing the community with better public access to Okanagan Lake.
2016 Community-Wide Greenspace Proposed Actions	The City of Vernon is modifying the storm drainage system at Highway 97 and Polson Park to include a treatment device to remove sediment and road way contaminants from urban runoff.

2016 Community-Wide  
Greenspace Proposed  
Actions |

Rec centre proposing to enhance riparian space and naturalized park.

2016 Community-Wide  
Greenspace Proposed  
Actions |

## CORPORATE

### CORPORATE GREENSPACE - 2015 ACTIONS

In the following section, please identify up to five corporate Greenspace actions taken in 2015 (one action per box). There is a separate box for additional actions that you may want to report.

#### 2015 Corporate Greenspace Actions

Variable	Response
2015 Corporate Greenspace Actions	
2015 Corporate Greenspace Actions	
2015 Corporate Greenspace Actions	
2015 Corporate Greenspace Actions	
2015 Corporate Greenspace Actions	

#### Additional Corporate Greenspace Actions Taken in 2015

For those communities that would like to provide additional actions - please list, separated by a forward slash /, any additional corporate Greenspace actions in the boxes below (optional).

(No response)

### CORPORATE GREENSPACE - ACTIONS PROPOSED FOR 2016

In the following section, please identify up to five corporate Greenspace actions proposed for 2016 (one action per box).

#### 2016 Greenspace Proposed Actions

Variable	Response
2016 Greenspace Proposed Actions	

2016 Greenspace Proposed Actions |  
 2016 Greenspace Proposed Actions |  
 2016 Greenspace Proposed Actions |  
 2016 Greenspace Proposed Actions |


**SNAPSHOT QUESTION**

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

Yes

**Solid Waste**

**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**

**COMMUNITY-WIDE SOLID WASTE - 2015 ACTIONS**

In the following section, please identify up to five community-wide Solid Waste actions taken in 2015 (one action per box). There is a separate box for additional actions that you may want to report.

**2015 Community-Wide Solid Waste Actions**

Variable	Response
2015 Community-Wide Solid Waste Actions	Worked in collaboration with the Regional District of North Okanagan and various community stewardship groups to encourage waste reduction measures such as reusing, recycling and reducing through community sustainability education and engagement activities and programs.
2015 Community-Wide Solid Waste Actions	(No response)

2015 Community-  
Wide Solid  
Waste Actions |

2015 Community-  
Wide Solid  
Waste Actions |

2015 Community-  
Wide Solid  
Waste Actions |


### Additional Community-Wide Solid Waste Actions Taken in 2015

For those communities that would like to provide additional actions - please list, separated by a forward slash /, any additional community-wide Solid Waste actions in the boxes below (optional).

Continue to collaboration with the Regional District of North Okanagan and various community stewardship groups to encourage waste reduction measures.

### COMMUNITY-WIDE SOLID WASTE - ACTIONS PROPOSED FOR 2016

In the following section, please identify up to five community-wide Solid Waste actions proposed for 2016 (one action per box).

#### 2016 Community-Wide Solid Waste Proposed Actions

Variable	Response
2016 Community-Wide Solid Waste Proposed Actions	
2016 Community-Wide Solid Waste Proposed Actions	
2016 Community-Wide Solid Waste Proposed Actions	
2016 Community-Wide Solid Waste Proposed Actions	
2016 Community-Wide Solid Waste Proposed Actions	

### CORPORATE

#### CORPORATE SOLID WASTE - 2015 ACTIONS

In the following section, please identify up to five corporate Solid Waste actions taken in 2015 (one action per box). There is a separate box for additional actions that you may want to report.

## 2015 Corporate Solid Waste Actions

Variable	Response
2015 Corporate Solid Waste Actions	
2015 Corporate Solid Waste Actions	
2015 Corporate Solid Waste Actions	
2015 Corporate Solid Waste Actions	
2015 Corporate Solid Waste Actions	

## Additional Solid Waste Actions Taken in 2015

For those communities that would like to provide additional actions - please list, separated by a forward slash /, any additional corporate Solid Waste actions in the boxes below (optional).

(No response)

## CORPORATE SOLID WASTE - ACTIONS PROPOSED FOR 2016

In the following section, please identify up to five corporate Solid Waste actions proposed for 2016 (one action per box).

## 2016 Solid Waste Proposed Actions

Variable	Response
2016 Solid Waste Proposed Actions	
2016 Solid Waste Proposed Actions	
2016 Solid Waste Proposed Actions	
2016 Solid Waste Proposed Actions	
2016 Solid Waste Proposed Actions	

## 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

#### 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

#### COMMUNITY-WIDE TRANSPORTATION - 2015 ACTIONS

In the following section, please identify up to five community-wide Transportation actions taken in 2015 (one action per box). There is a separate box for additional actions that you may want to report.

#### 2015 Community-Wide Transportation Actions

Variable	Response
2015 Community-Wide Transportation Actions	Master Transportation Plan completion: The Master Transportation Plan, which outlines a 25 year vision and implementation plan for Vernon's transportation network, was completed in 2015. The plan includes four sub strategies and plans: Road Network Plan, Transit Strategy, Pedestrian and Bike Master Plan and Transportation Demand Management Strategy. The plan continues to support the Official Community Plan's growth strategy by strategically prioritizing road, transit, cycling and pedestrian investments to promote development and redevelopment in targeted growth areas. With its focus on shifting mode share to transit, cycling and walking, the Master Transportation Plan is a critical component to reducing GHG emissions in Vernon.
2015 Community-Wide Transportation Actions	The 2014/2015 Sustainable Infrastructure Investment Plan included the Integrated Transportation Framework (ITF). The ITF developed future road cross sections including future pedestrian and bike facilities to ensure the network will function satisfactorily while providing facilities that will encourage more cycling, walking and transit use in a financially sustainable manner. The ITF included reducing vehicle travel lane widths by 0.25 m per travel lane, during the 2015 construction year the City of

2015 Community-  
Wide Transportation  
Actions |

Vernon reduced the amount of asphalt in the reconstruction process by 465 m<sup>2</sup>.

Constructed a 92m sidewalk in Pleasant Valley Road (20th Street to 39th Avenue) connecting the sidewalks in 20th Street and 39th Avenue. Installed a new crosswalk in Pleasant Valley Road at the intersection with 20th Street with pedestrian activated Flashing Amber Warning Lights. Constructed an 800m sidewalk in 24th Avenue (34th Street to 39th Street). Improved the crosswalk in 43rd Avenue at the intersection with 22nd Street to improve pedestrian visibility of oncoming vehicles as they cross into 22nd Street which leads to Harwood Elementary School. Improved two crosswalks in 32nd Avenue to improve pedestrian visibility of oncoming vehicles adjacent to Lakeview Park.

2015 Community-  
Wide Transportation  
Actions |

Reviewed the bus stop spacing and locations on all routes to maximise service efficiency while encouraging transit use. Reviewed and amended all signage for Schools and Playgrounds to reflect best practice and provide consistency for drivers to maximize compliance with 30 km/hour zones.

2015 Community-  
Wide Transportation  
Actions |

TDM Coordinator held the following transportation outreach and information booths at: the Local Food Day event; Downtown Vernon Association / Greater Vernon Chamber of Commerce Expo and the Annual Sunshine Festival. TDM Coordinator organised local participation in: Bike to Work and School Week; Clean Air Day with free regional transit; Gift of transit promotion; International Walk to School Week with three celebration stations and a walk with the Mayor; Carpool Month and launched the Pace Car Program (residents pledge to follow speed limits particularly around schools to reduce the number and severity of accidents) by expanding from three to seven elementary schools.

## Additional Community-Wide Transportation Actions Taken in 2015

For those communities that would like to provide additional actions - please list, separated by a forward slash /, any additional community-wide Transportation actions in the boxes below (optional).

(No response)

## COMMUNITY-WIDE TRANSPORTATION - ACTIONS PROPOSED FOR 2016

In the following section, please identify up to five community-wide Transportation actions proposed for 2016 (one action per box).

### 2016 Community-Wide Transportation Proposed Actions

Variable

Response

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2016 Community-Wide Transportation Proposed Actions |

Master Transportation Plan Implementation: The Master Transportation Plan includes four sub strategies and plans: Road Network Plan, Transit Strategy, Pedestrian and Bike Master Plan and Transportation Demand Management Strategy. The plan includes completing a Custom Transit Service review, take part in provincial and national outreach campaigns and events such as Bike to Work and School Week, start the bus stop and sidewalk ramp improvement programs and revise the Traffic Bylaw regarding the use of the network by children's bikes, scooters, skateboards and longboards.

2016 Community-Wide Transportation Proposed Actions |

29th/30th Street Transportation and Utility Corridor: Construct the fourth phase of a seven phase project that will ultimately create a new north-south pedestrian/cycling/transit corridor between Polson Park, Downtown Vernon and shopping destinations in north Vernon.

2016 Community-Wide Transportation Proposed Actions |

The Subdivision and Development Service Bylaw and the Development Cost Charges Bylaw will be updated to reflect the Master Transportation Plan and integrate the ITF. Roads will continue to be rebuilt using the ITF road standards and recommendations, with an estimated 497 m<sup>2</sup> reduction of asphalt used for 2016 and 144,000 m<sup>2</sup> of asphalt saved over the next 60 years of road reconstruction.

2016 Community-Wide Transportation Proposed Actions |

Implement a recommendation of the Pedestrian and Bike Master plan to designate 25th Street in the East Hill neighbourhood as a Pedestrian and Bike Corridor by constructing 1,310 metres of sidewalk between Pleasant Valley Road and 46th Avenue and installing bike route signage in 25th Street and 45th Avenue to connect with the Class 1 Trail (multi-use path) in 20th Street and the bike lanes in Pleasant Valley Road.

2016 Community-Wide Transportation Proposed Actions |

Improve the crosswalk in Alexis Park Drive at the intersection with 42nd Avenue to improve pedestrian visibility of oncoming vehicles as they cross into 42nd Avenue which leads to Alexis Park Elementary School including the installation of pedestrian activated Flashing Amber Warning lights. Implement overhead pedestrian crosswalk signage on crosswalks on multi-lane roads. Remove / relocate the bus stops identified in 2015 and install transit schedule information panels at high volume bus stops. Complete the first sidewalk ramp inspection in the downtown core and implement the resultant recommended improvements to the ramps location, curb type, size and grades. The City plans to work cooperatively with BC Transit to undertake a service review of the custom transit service, which includes, handidart, taxi-saver and taxi supplement.

## CORPORATE

### **CORPORATE TRANSPORTATION - 2015 ACTIONS**

In the following section, please identify up to five corporate Transportation actions taken in 2015 (one action per box). There is a separate box for additional actions that you may want to report.

## 2015 Corporate Transportation Actions

Variable	Response
2015 Corporate Transportation Actions	GPS tracking of corporate fleet with emphasis placed on anti-idle policy with civic employees.
2015 Corporate Transportation Actions	Right sizing vehicles in fleet replacements.
2015 Corporate Transportation Actions	Research current alternative fuel prospects, conversions, original equipment options, fuelling facilities, etc.
2015 Corporate Transportation Actions	Explore the possibility of car share opportunities within the City of Vernon.
2015 Corporate Transportation Actions	(No response)

## Additional Corporate Transportation Actions Taken in 2015

For those communities that would like to provide additional actions - please list, separated by a forward slash /, any additional corporate Transportation actions in the boxes below (optional).

(No response)

## CORPORATE TRANSPORTATION - ACTIONS PROPOSED FOR 2016

In the following section, please identify up to five corporate Transportation actions proposed for 2016 (one action per box).

## 2016 Transportation Proposed Actions

Variable	Response
2016 Transportation Proposed Actions	Continued emphasis placed on GPS tracking, routeing and anti-idle reporting.
2016 Transportation Proposed Actions	Continued emphasis placed on right sizing vehicles for departments.
2016 Transportation Proposed Actions	Continue to monitor the options for alternative fuel vehicles and the suitability for the City.
2016 Transportation Proposed Actions	Continue to explore opportunities to incorporate electric and hybrid vehicles for fleet replacements.
2016 Transportation Proposed Actions	Develop a City of Vernon Workplace Travel Plan aimed at reducing the number of trips by single occupant vehicles both commuting to / from work and work based trips, to include options for a subsidized annual transit pass for employees.

## SNAPSHOT QUESTIONS

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

- Walking
- Cycling
- Transit
- Electric Vehicles
- Other, please specify...: carpooling

**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)?**

Yes

### Water and Wastewater

#### 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

#### COMMUNITY-WIDE WATER AND WASTEWATER - 2015 ACTIONS

In the following section, please identify up to five community-wide Water and Wastewater actions taken in 2015 (one action per box). There is a separate box for additional actions that you may want to report.

## 2015 Community-Wide Water and Wastewater Actions

Variable	Response
2015 Community-Wide Water and Wastewater Actions	Worked in collaboration with the Regional District of North Okanagan and various community stewardship groups to encourage reduction and conservation measures for water consumption via community events and programs.
2015 Community-Wide Water and Wastewater Actions	Participated in the development of Master Water Plan with Regional District of North Okanagan and various partners.
2015 Community-Wide Water and Wastewater Actions	
2015 Community-Wide Water and Wastewater Actions	
2015 Community-Wide Water and Wastewater Actions	

## Additional Community-Wide Water and Wastewater Actions Taken in 2015

For those communities that would like to provide additional actions - please list, separated by a forward slash /, any additional community-wide Water and Wastewater actions in the boxes below (optional).

(No response)

## COMMUNITY-WIDE WATER AND WASTEWATER - ACTIONS PROPOSED FOR 2016

In the following section, please identify up to five community-wide Water and Wastewater actions proposed for 2016 (one action per box).

## 2016 Community-Wide Water and Wastewater Proposed Actions

Variable	Response
2016 Community-Wide Water and Wastewater Proposed Actions	Continue to collaborate with the Regional District of North Okanagan and various community stewardship groups to encourage reduction and conservation measures for water consumption.
2016 Community-Wide Water and Wastewater Proposed Actions	Develop and distribute educational materials to provide information on better understanding community watershed resources and potable water use.

2016 Community-Wide Water and Wastewater Proposed Actions |

2016 Community-Wide Water and Wastewater Proposed Actions |

2016 Community-Wide Water and Wastewater Proposed Actions |

## CORPORATE

### CORPORATE WATER AND WASTEWATER - 2015 ACTIONS

In the following section, please identify up to five corporate Water and Wastewater actions taken in 2015 (one action per box). There is a separate box for additional actions that you may want to report.

#### 2015 Corporate Water and Wastewater Actions

Variable	Response
2015 Corporate Water and Wastewater Actions	Through the use of trenchless technology the City of Vernon was able to reduce the cost of sanitary and storm main infrastructure. The use of trenchless technology for selected pipe rehabilitation typically reduces Green House Gas Emissions by 90%. In 2015, the City completed rehabilitation of 800 m of pipe by trenchless technology.
2015 Corporate Water and Wastewater Actions	
2015 Corporate Water and Wastewater Actions	
2015 Corporate Water and Wastewater Actions	
2015 Corporate Water and Wastewater Actions	

#### Additional Corporate Water and Wastewater Actions Taken in 2015

For those communities that would like to provide additional actions - please list, separated by a forward slash /, any additional corporate Water and Wastewater actions in the boxes below (optional).

(No response)

## CORPORATE WATER AND WASTEWATER - ACTIONS PROPOSED FOR 2016

In the following section, please identify up to five corporate Water and Wastewater actions proposed for 2016 (one action per box).

### 2016 Water and Wastewater Proposed Actions

Variable	Response
2016 Water and Wastewater Proposed Actions	Through the use of trenchless technology the City of Vernon was able to reduce the cost of sanitary and storm main infrastructure. The use of trenchless technology for selected pipe rehabilitation typically reduces Green House Gas Emissions by 90%. In 2016, the City is planning to complete rehabilitation of 950m of pipe by trenchless technology.
2016 Water and Wastewater Proposed Actions	
2016 Water and Wastewater Proposed Actions	
2016 Water and Wastewater Proposed Actions	
2016 Water and Wastewater Proposed Actions	

### SNAPSHOT QUESTION

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

Yes



## Adaptation

### CLIMATE CHANGE ADAPTATION ACTIONS

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

#### COMMUNITY-WIDE ADAPTATION - 2015 ACTIONS

In the following section, please identify up to five community-wide Adaptation actions taken in 2015 (one action per box). There is a separate box for additional actions that you may want to report.

#### 2015 Community-Wide Adaptation Actions

Variable	Response
2015 Community-Wide Adaptation Actions	Official Community Plan Implementation: Vernon’s OCP is rooted in the principles of compact urban development, transportation choice and the preservation of agricultural lands. This approach forms the basis for adaptation in the face of climate change.
2015 Community-Wide Adaptation Actions	
2015 Community-Wide Adaptation Actions	
2015 Community-Wide Adaptation Actions	
2015 Community-Wide Adaptation Actions	

#### Additional Community-Wide Adaptation Actions Taken in 2015

For those communities that would like to provide additional actions - please list, separated by a forward slash /, any additional community-wide Adaptation actions in the boxes below (optional).

(No response)

## COMMUNITY-WIDE ADAPTATION - ACTIONS PROPOSED FOR 2016

In the following section, please identify up to five community-wide Adaptation actions proposed for 2016 (one action per box).

### 2016 Community-Wide Adaptation Proposed Actions

Variable	Response
2016 Community-Wide Adaptation Proposed Actions	Integrated Community Sustainability Planning: Vernon will be exploring ways to build on the sustainability components of the OCP in 2016. This initiative would include further exploration and refinement of GHG emission targets as well as adaptation strategies.
2016 Community-Wide Adaptation Proposed Actions	
2016 Community-Wide Adaptation Proposed Actions	
2016 Community-Wide Adaptation Proposed Actions	
2016 Community-Wide Adaptation Proposed Actions	

## CORPORATE

### CORPORATE ADAPTATION - 2015 ACTIONS

In the following section, please identify up to five corporate Adaptation actions taken in 2015. One action per box. There is a separate box for optional additional 2015 actions your community may want to report.

### 2015 Corporate Adaptation Actions

Variable	Response
2015 Corporate Adaptation Actions	Investigating options for sustainable service delivery for stormwater drainage services.
2015 Corporate Adaptation Actions	

2015 Corporate Adaptation  
Actions |

2015 Corporate Adaptation  
Actions |

2015 Corporate Adaptation  
Actions |

### Additional Corporate Adaptation Actions Taken in 2015

For those communities that would like to provide additional actions - please list, separated by a forward slash /, any additional corporate Adaptation actions in the boxes below (optional).

(No response)

### CORPORATE ADAPTATION - ACTIONS PROPOSED FOR 2016

In the following section, please identify up to five corporate Adaptation actions proposed for 2016 (one action per box).

#### 2016 Adaptation Proposed Actions

Variable	Response
2016 Adaptation Proposed Actions	
2016 Adaptation Proposed Actions	
2016 Adaptation Proposed Actions	
2016 Adaptation Proposed Actions	
2016 Adaptation Proposed Actions	

### 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

Other

### 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

#### COMMUNITY-WIDE OTHER - 2015 ACTIONS

In the following section, please identify up to five community-wide Other actions taken in 2015 (one action per box).

#### 2015 Community-Wide Other Actions

Variable	Response
2015 Community-Wide Other Actions	
2015 Community-Wide Other Actions	
2015 Community-Wide Other Actions	
2015 Community-Wide Other Actions	
2015 Community-Wide Other Actions	

#### COMMUNITY-WIDE OTHER - ACTIONS PROPOSED FOR 2016

In the following section, please identify up to five community-wide Other actions proposed for 2016 (one action per box).

## 2016 Community-Wide Other Proposed Actions

Variable	Response
2016 Community-Wide Other Proposed Actions	
2016 Community-Wide Other Proposed Actions	
2016 Community-Wide Other Proposed Actions	
2016 Community-Wide Other Proposed Actions	
2016 Community-Wide Other Proposed Actions	

## CORPORATE

### CORPORATE OTHER - 2015 ACTIONS

In the following section, please identify up to five corporate Other actions taken in 2015 (one action per box).

### 2015 Corporate Other Actions

Variable	Response
2015 Corporate Other Actions	
2015 Corporate Other Actions	
2015 Corporate Other Actions	
2015 Corporate Other Actions	
2015 Corporate Other Actions	

### CORPORATE OTHER - ACTIONS PROPOSED FOR 2016

In the following section, please identify up to five corporate Other actions proposed for 2016 (one action per box).

### 2016 Other Proposed Actions

Variable	Response
2016 Other Proposed Actions	
2016 Other Proposed Actions	
2016 Other Proposed Actions	
2016 Other Proposed Actions	



## Innovation/Peer Learning

### INNOVATION AND 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. You are welcome to repeat an action that has already been listed. 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 Innovation

(No response)

#### Corporate Innovation

The goal of the Integrated Transportation Framework (ITF) is to identify a functionally viable transportation network for all users including vehicles, pedestrians, and cyclists that is financially sustainable. In addition, when implemented over several years, the ITF will reduce Vernon's use of paving asphalt as well as well improve transportation connections for alternative modes of transport than the automobile. The document outlining all of the details is available on the City's website:

(No response)

[https://www.vernon.ca/sites/default/files/docs/planning-building/integrated\\_transportation\\_framework.pdf](https://www.vernon.ca/sites/default/files/docs/planning-building/integrated_transportation_framework.pdf)

(No response)

(No response)

In addition, the City of Vernon has completed an extensive inventory of all of the community infrastructure the City is responsible for maintaining and replacing. This is Vernon's asset management plan, also known as the Sustainable Infrastructure Investment Plan (SIIP), which positions Vernon onto the path toward financial sustainability with respect to taking care of its core infrastructure that the community depends on for its prosperity. The document outlining all of the details is available on the City's website:

[https://www.vernon.ca/sites/default/files/docs/planning-building/131204\\_vernon\\_siip\\_rpt.pdf](https://www.vernon.ca/sites/default/files/docs/planning-building/131204_vernon_siip_rpt.pdf)

(No response)

## 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 separated by a forward slash / (e.g. program1/program2/...).

## Programs, Partnerships and Funding

The City has received support through: EMBC Provincial Flood Protection Grant; Federal Gas Tax Grant; BC Gaming Grant; ICBC Road Safety Grant.

## Emissions

### 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)

3775

**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)

512

## **Total Corporate GHG Emissions for 2015: 4287.0 tCO<sub>2</sub>e**

### **Reductions and Offsets**

#### **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 (tCO<sub>2</sub>e))

(No response)

##### **Solar Thermal**

(in tonnes of carbon dioxide equivalent (tCO<sub>2</sub>e))

(No response)

##### **Household Organic Waste Composting**

(in tonnes of carbon dioxide equivalent (tCO<sub>2</sub>e))

(No response)

##### **Low Emission Vehicles**

(in tonnes of carbon dioxide equivalent (tCO<sub>2</sub>e))

(No response)

##### **Avoided Forest Conversion**

(in tonnes of carbon dioxide equivalent (tCO<sub>2</sub>e))



(No response)

**2015 OPTION 1 REDUCTIONS = 0.0 tCO<sub>2</sub>e**

**If applicable, please report the names and 2015 GHG emissions reductions being claimed from Option 2 GHG Reduction Projects:**

Option 2 Project Name	GHGs Reduced (tCO <sub>2</sub> e)
(No response)	
(No response)	
(No response)	

**2015 OPTION 2 REDUCTIONS = 0.0 tCO<sub>2</sub>e**

**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 (tCO<sub>2</sub>e))

(No response)

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

(No response)

**2015 OFFSETS = tCO<sub>2</sub>e**

**2015 REDUCTIONS AND OFFSETS = 0.0 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.

**2015 CORPORATE GHG EMISSIONS BALANCE: 4287.0 tCO<sub>2</sub>e**

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

### **Recognition**

#### **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 2 - Measurement

## Email Address

An email confirming that the survey was successfully submitted will be sent to the address provided in the box below.

jniu@vernon.ca

## Other Opportunities for Awards and Recognition

In addition to the GCC's Climate Action Recognition Program, your local government may be eligible for other award and recognition programs that recognize a range of aspects related to climate action. Here is a list of some award programs, submission timelines and web links.

Climate & Energy Action (CEA) Awards – The CEA awards are offered annually to a municipality or regional district implementing a project or program best integrating energy / climate planning into community planning and development, corporate operations and collaboration with public service organizations. Submission: May.<http://communityenergy.bc.ca/apply-now-for-2014-climate-energy-action-awards/UBCM>

Community Excellence Awards – The UBCM Community Excellence Awards program is an opportunity to showcase municipalities and regional districts who "lead the pack", take risks to innovate, establish new partnerships, question established ways of doing business and pioneer new customer service practices. One of the five categories recognized in 2015, "Leadership & Innovation, Green Initiatives", related to climate action. Submission: July.<http://www.ubcm.ca/EN/main/convention/Awards/15021/community-excellence-awards-application.html>

## LG Info

### LOCAL GOVERNMENT INFORMATION

Variable	Response
LOCAL GOVERNMENT INFORMATION   Name of Local Government	Vernon, The Corporation of the City of
LOCAL GOVERNMENT INFORMATION   Name of member Regional District (RD)	North Okanagan
LOCAL GOVERNMENT INFORMATION   Regional Growth Strategy (RGS) in your region	Yes
LOCAL GOVERNMENT INFORMATION   Population	10,000-49,999

### Submitted by:

Variable	Response
----------	----------

Submitted by: | Name  
Submitted by: | Position  
Submitted by: | Telephone # (123-456-7890)  
Submitted by: | Email Address

Jing Nlu
Environmental Planning Assistant
250-550-3243
jniu@vernon.ca

**This year we comined two online surveys with one in addition to other changes to streamline and improve the reporting process. We would like to know what you think.**

Please check the answer that best describes your thoughts on how the new survey process compares to last year's process.

Somewhat improved

**Before submitting your survey, please ensure that it is your local government's complete and final 2015 Climate Actions Survey. Please submit this survey only once.**

Is this your local government's complete and final 2015 Climate Actions Survey?

Yes

**Once you have submitted your survey, be sure to download your survey report from the 'Thank You' page and use it as your public report.**