



Climate Action Revenue Incentive Program 2016 Public Report

May 29, 2017



Climate Action Revenue Incentive (CARIP) Public Report for 2016

Local Government:

Township of Esquimalt

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The Township of Esquimalt has completed the 2016 Climate Action Revenue Incentive Program (CARIP) Public Report as required by the Province of BC. The CARIP report summarizes actions taken in 2016 and proposed for 2017 to reduce corporate and community-wide energy consumption and greenhouse gas emissions (GHG) and reports on progress towards achieving carbon neutrality.

LEGEND

DS	Development Services
EPW	Engineering & Public Works
FN	Financial Services
PR	Parks & Recreation Services

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2016 Corporate Energy & Emissions Inventory

BROAD PLANNING

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 2016	
DS	Approved rezoning application to allow a mid-rise, mixed-use building in West Bay.
Community-Wide Actions Proposed for 2017	
DS	Adoption of an updated Official Community Plan.

Corporate Actions Taken in 2016	
DS	Worked with fourth-year University of Victoria Law students who drafted guidelines for establishing Development Permit Areas that address climate action through water conservation, energy conservation, and GHG emissions reduction.
Corporate Actions Proposed for 2017	
DS	Update the OCP to include Development Permit Areas to address climate action through water conservation, energy conservation, and GHG emissions reduction.

Broad Planning		
What is (are) your current GHG reduction target(s)?	To reduce community greenhouse gas emissions by at least 38% by 2020; and 83% by 2050 compared to 2007 levels.	
Has your local government used the Community Energy and Emissions Inventory (CEEI) to measure progress?		<u>Yes/No</u>
What plans, policies or guidelines govern the implementation of climate mitigation in your community?		
•	Community Energy and Emissions (CEE) Plan	<u>Yes/No</u>
•	Climate Action Plan	<u>Yes/No</u>
•	Integrated Community Sustainability Plan	<u>Yes/No</u>
•	Official Community Plan (OCP)	<u>Yes/No</u>
•	Regional Growth Strategy (RGS)	<u>Yes/No</u>
•	Do not have a plan	<u>Yes/No</u>
•	Other:	<u>Yes/No</u>
Does your local government have a corporate GHG reduction plan?		<u>Yes/No</u>
Does your local government have a climate reserve fund or something similar?		<u>Yes/No</u>

BUILDINGS AND LIGHTING

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 2016	
EPW	Installed LED streetlights along the Admirals Road Corridor.
PR	Installed 20 new LED light standards/fixtures in Esquimalt Gorge Park.
Community-Wide Actions Proposed for 2017	
EPW	A budget request will be made in 2017 to begin systematic replacement of street lights with LED streetlights.

Corporate Actions Taken in 2016	
PR	Replaced the motion sensors for washroom lighting in Esquimalt Gorge Park.
PR	Began conversion of ceiling lights from compact fluorescent to LED at the Esquimalt Recreation Centre.
PR	Installed new LED light panels in the lower office area at the Archie Browning Sports Centre.
DS	Continued with the updating of the Official Community Plan which will include the addition of greenhouse gas reduction targets, policies and actions to help mitigate the impacts of climate change.
DS	Continued with the Environmental Advisory Committee.
Corporate Actions Proposed for 2017	
DS	Develop urban design guidelines for Esquimalt Road.
PR	Continue with the conversion of ceiling lights from compact fluorescent to LED at the Esquimalt Recreation Centre.

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.

Community-Wide Actions Taken in 2016	
	Not applicable
Community-Wide Actions Proposed for 2017	
DS	Provide 20 top-up incentives at \$150 each to supplement the provincial Oil to Heat Pump Incentive Program. Together with the Capital Regional District's \$150 top-up, \$300 will cover the cost of the required pre and post energy assessment for homeowners to be eligible for the program.

Corporate Actions Taken in 2016	
	Not applicable
Corporate Actions Proposed for 2017	
	Not applicable

Energy Generation	
Is your local government developing, or constructing:	
• A district energy system	<u>Yes/No</u>
• A renewable energy system	<u>Yes/No</u>
Is your local government operating:	
• A district energy system	<u>Yes/No</u>
• A renewable energy system	<u>Yes/No</u>
Is your local government connected to a district energy system that is operated by another energy provider?	<u>Yes/No</u>
Are you aware of the Integrated Resource Recovery guidance page on the BC Climate Action Toolkit ?	<u>Yes/No</u>

GREENSPACE/ NATURAL RESOURCE PROTECTION

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 2016	
PR	Hosted 'Branch Out' events in Highrock Park, Gorge Park, and Macaulay Park with over 100 volunteers assisting in the removal of invasive plants. www.esquimalt.ca/parks-recreation/parks/branch-out-events-educational-materials
PR	Hosted the 4 th Annual Earth Day celebration in Highrock Park. The event drew 1000 students. Activities included invasive pulling of English Ivy and Himalayan Blackberry, trail building, Garry Oak planting, native plant understory planting, and 11 goats that fed on the invasive plants.
PR	Hosted the 5th annual Bloomin' Beautiful Home and Garden Contest including an award category for best environmental practices. www.esquimalt.ca/news-events/bloomin-beautiful
PR	Planted 80 new boulevard trees.
PR	Installed a new wood chip path at Saxe Point Park.
Community-Wide Actions Proposed for 2017	
	Not applicable

Corporate Actions Taken in 2016	
PR	Completed the Urban Forest Management Plan.
PR	Installed drainage systems to reduce pathway erosion at Cairn Park and Gorge Park.
EPW	Prepared and submitted a brownfield remediation strategy for the Esquimalt Town Square Project to the Ministry of Environment.
Corporate Actions Proposed for 2017	
PR	Continue with strategic parkland acquisition and expansion including reviewing strategies for replenishment of Parkland Acquisition Fund.
EPW	Carryout approved remediation plan for the old Public Works Yard site and obtain Certificates of Compliance for site and surrounding properties.

Greenspace	
Does your local government have urban forest policies, plans or programs?	<u>Yes/No</u>

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 2016	
EPW	Continued with the collection of yard and garden waste at transfer station. [Tonnage removed from site in 2016 = 2268.20]
EPW	Continued with residential household organics collection program. [Tonnage of kitchen scraps collected for composting in 2016 = 526.4]
FN	Updated the Local Grant Policy to include criteria for organizations holding established events to identify and report back on the “green” actions they have taken.
FN/PR	Distributed the Green Event Planning Guide to community groups and organizations that receive financial or in-kind support from the municipality or host an event in municipal buildings or parks.
Community-Wide Actions Proposed for 2017	
	Not applicable

Corporate Actions Taken in 2016	
DS	Adoption of the Green Event Planning Guide.
DS	Environmental Advisory Committee recommended improvements to the Green Event Planning Guide and developed a Green Event Reporting Form as a tool to measure the environmental performance of events.
EPW	Continued to work with the CRD to determine a process for handling kitchen scraps, biosolids and yard/garden waste on Vancouver Island.
Corporate Actions Proposed for 2017	
EPW	Education program on various waste streams and options for disposal, continue to work with CRD to develop a co-mingled yard/garden & kitchen scraps waste stream.
DS	Update the Green Event Planning Guide and include a reporting form.

Solid Waste	
Does your local government have construction and demolition waste reduction policies, plans or programs?	<u>Yes/No</u>
Does your local government have organics reduction/diversion policies, plans or programs?	<u>Yes/No</u>

TRANSPORTATION

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

Community -Wide Actions Taken in 2016	
EPW	Continued with Sidewalk Continuity Plan. Obtained right of way and detailed design for sidewalk between Esquimalt Road and Old Esquimalt. Sidewalk Replacement Program – asphalt sidewalk was replaced with concrete along Head Street from Wollaston St. to Dunsmuir Rd.
EPW	Installed 3 sidewalk ramps under the capital program at Selkirk Ave./Arcadia St. and Lampson St./Bewdley Ave.
EPW	Completed trip hazard inspection survey and corrected 14 of the 28 identified No. 1 trip hazards.
EPW	Commenced the Colville/Hutchinson intersection upgrade to facilitate pedestrian movement and bus shelters.
Community-Wide Actions Proposed for 2017	
EPW	Continue with implementation of Sidewalk Continuity Plan. Construction of concrete sidewalk between Esquimalt Road and Old Esquimalt Road. Construction of new sidewalk along Wychbury Ave. from Lampson St. to Kinver St. Sidewalk Replacement Program – asphalt sidewalk along Head Street from Gore St. to Paradise St. Installation of new sidewalk ramps. Remove and replace entrance way to West Bay Walkway.
DS	Introduce a user fee of \$1/hour for Level 2 electric vehicle charging to improve availability of the station to more users and to achieve cost neutrality.

Corporate Actions Taken in 2016	
EPW	Began the development of an asset management strategy for sidewalk ramps.
EPW	Initiated the Road Corridor Program with five road segments chosen for program.
DS	Staff met with local residents who were interested in installing a Level 2 electric vehicle charging station in a multi-unit residential building.
DS	Employee driven participation in Greater Victoria Bike to Work Week.
Corporate Actions Proposed for 2017	
EPW	Continue to ensure multi-modal traffic strategies consider and reflect business and residential growth and development.
EPW	Conduct traffic count analysis.
EPW	Conduct a Lampson Street corridor cross section study to determine the corridor's ability to accept bike lanes in order to increase multi-modal orientation.
EPW	Conduct multimodal right-of-way study of Lyall Street between Grafton Road and Head Street.
EPW	Conduct a crossing study for Tillicum Road between Craigflower Road and Tillicum Bridge

Transportation	
<p>Does your local government have policies, plans or programs to support:</p> <ul style="list-style-type: none"> • Walking • Cycling • Transit Use • Electric Vehicle Use 	<p><u>Yes/No</u></p> <p><u>Yes/No</u></p> <p><u>Yes/No</u></p> <p><u>Yes/No</u></p>
<p>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)?</p>	<p><u>Yes/No</u></p>
<p>Does your local government have policies, plans or programs to support local food production (thus reducing transportation emissions)?</p>	<p><u>Yes/No</u></p>

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 2016	
EPW	Separated 24 combined manholes.
EPW	Replaced 17 catch basins. 2016 was the third year of a basin replacement program. The new catch basins meet the latest standards which improve the control of sediment to receiving water bodies.
DS	Distributed resource binders for the local schools on watershed protection to compliment the Esquimalt Neighbourhood Watersheds Maps.
DS	Displayed the Esquimalt Neighbourhood Watersheds Map at the Earth Day Celebration as well as the Esquimalt Library Branch, Esquimalt Recreation Centre and Archie Browning Sports Centre.
EPW	Participated in the development of various aspects of a sub-regional wastewater treatment system.
Community-Wide Actions Proposed for 2017	
	Not applicable

Corporate Actions Taken in 2016	
EPW	Participated in activities related to the CRD and Project Board's decision to locate a regional waste water treatment plant in Esquimalt.
EPW	Staff participated as a member of a CRD committee that is developing common design guidelines for storm water management.
Corporate Actions Proposed for 2017	
EPW	Development of the parameters of the Inflow and Infiltration Strategy.
EPW	Release a request for proposal for modeling of the sanitary collection system and interpretation of smoke testing results.
EPW	Develop bylaw for inflow and infiltration.
Water Conservation	
Does your local government have water conservation policies, plans or programs?	Yes/No

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.

Climate Change Adaptation Actions Taken in 2016	
	Not applicable
Climate Change Adaptation Actions Proposed for 2017	
EPW	Continue to identify infrastructure repair and proactively plan for replacement needs.

Resources you have used to support climate change adaptation (e.g. Plan2Adapt , Preparing for Climate Change: Implementation Guide)	
	Not applicable

In 2016 did you consider climate change impacts in any of the following areas? (check if yes)	
Risk reduction strategies	<u>Yes/No</u>
Risk and Vulnerability assessment	<u>Yes/No</u>
Asset management	<u>Yes/No</u>
Infrastructure upgrades (e.g. stormwater system upgrades)	<u>Yes/No</u>
Cross-department working groups	<u>Yes/No</u>
Emergency response planning	<u>Yes/No</u>
Land-use policy changes (eg. OCP, DPA)	<u>Yes/No</u>
Economic diversification initiatives	<u>Yes/No</u>
Ecosystem-based approaches (incl. shorelines)	<u>Yes/No</u>
Incentives (e.g. property owner reducing stormwater run-off)	<u>Yes/No</u>
Public education and awareness	<u>Yes/No</u>
Research (e.g. mapping, participation in studies)	<u>Yes/No</u>

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 2016	
DS	Developed a watershed management resource binder for teachers. The binder featured the Esquimalt Neighbourhoods Watershed Map for each of the four local schools.
PR	Installed signage around the Gorge Creek estuary as a wildlife protection measure.
Community-Wide Actions Proposed for 2017	
DS	Host the delivery of the BC Sustainable Energy Association's Cool It! Climate Leadership Training for five Grade 4 & 5 classrooms in Esquimalt.

Corporate Actions Taken in 2016	
DS	Provided input on the BC Climate Leadership Plan and Federal pan-Canadian framework for combatting climate change.
Corporate Actions Proposed for 2017	
	Not applicable

Other	
Are you familiar with the Community Lifecycle Infrastructure Costing Tool (CLIC) ?	Yes/No
Have you used CLIC?	Yes/No

CARBON NEUTRAL 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 (GCC) 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.

Reporting Emissions

Did you measure your local government's corporate GHG emissions in 2016?	Yes/No
If your local government measured 2016 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:	1,112.6
If your local government measured 2016 corporate GHG emissions, please report the number of corporate GHG emissions (in tonnes of carbon dioxide equivalent) from <u>contracted</u> services:	0
TOTAL A: CORPORATE GHG EMISSIONS FOR 2016	1,112.6 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 GCC-supported Option 1 Projects
- undertake GCC-supported Option 2 Projects (community GHG emissions reduction projects that meet project eligibility requirements)
- purchase carbon offsets from a credible offset provider

If applicable, please report the 2016 GHG emissions reductions (in tonnes of carbon dioxide equivalent (tCO₂e)) being claimed from Option 1 GHG Reduction Projects:

OPTION 1 PROJECTS	REDUCTIONS
Energy Efficient Retrofits	0
Solar Thermal	0
Household Organic Waste Composting	334.6
Low Emission Vehicles	0
Avoided Forest Conversion	0
TOTAL B: REDUCTIONS FROM OPTION 1 PROJECTS FOR 2016	334.6 tCO₂e

If applicable, please report the names and 2016 GHG emissions reductions (in tonnes of carbon dioxide equivalent (tCO2e)) being claimed from Option 2 GHG Reduction Projects:

OPTION 2 PROJECT NAME	REDUCTIONS
Not applicable	0
TOTAL C: REDUCTIONS FROM OPTION 2 PROJECTS FOR 2016	0 tCO2e

If applicable, please report the number of offsets purchased (in tonnes of carbon dioxide equivalent (tCO2e)) from an offset provider for the 2016 reporting year:

(NOTE: DO NOT INCLUDE ANY FUNDS THAT MAY BE SET ASIDE IN A CLIMATE ACTION RESERVE FUND)

OFFSET PROVIDER NAME	OFFSETS
Not applicable	0
TOTAL D: OFFSETS PURCHASED FOR 2016	0 tCO2e

TOTAL REDUCTIONS AND OFFSETS FOR 2016 (Total B+C+D) = 334.6 tCO2e

Corporate GHG Emissions Balance for 2016

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 2016 = (A – (B+C+D)) = 778 tCO2e

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.

This year a new recognition level has been added – **Level 3: Accelerating Progress on Charter Commitments**–. Recognition is provided on an annual basis to local governments who demonstrate progress on their Charter commitments, according to the following:

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

Level 2 – Measuring GHG Emissions: for local governments that achieve level 1, and 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 – Accelerating Progress on Charter Commitments: for those local governments who have achieved level 1 and 2 and have demonstrated undertaking significant action (corporately or community wide) to reduce GHG emissions in the reporting year (ie: through undertaking a GHG reduction project, purchasing offsets, establishing a reserve fund).

Level 4 - Achievement of Carbon Neutrality: for local governments who achieve carbon neutrality in the reporting year.

For purposes of Level 3 recognition, if applicable, please identify any new or ongoing corporate or community wide GHG reduction projects (other than an Option 1 or Option 2 project) undertaken by your local government that reflects a significant investment of time or financial resources and is intended to result in significant GHG reductions:

PROJECT NAME:
Sustainability Reserve Fund: The CARIP Grant is deposited in the Sustainability Reserve Fund to be used for funding sustainability initiatives that reduce GHG emissions and move the Township forward to achieving its Climate Action Charter goals.

Based on your local government's 2016 CARIP Climate Action/Carbon Neutral Progress Survey, please check the GCC Climate Action Recognition Program level that best applies:

<input type="checkbox"/>	Level 1 – Demonstrating Progress on Charter Commitments	
<input type="checkbox"/>	Level 2 – Measuring GHG Emissions	
<input checked="" type="checkbox"/>	Level 3 – Accelerating Progress on Charter Commitments	X
<input type="checkbox"/>	Level 4 - Achievement of Carbon Neutrality	
<input type="checkbox"/>	Not Sure	

APPENDIX: 2016 Corporate Energy & Emissions Inventory

Local Government Name:	Township of Esquimalt
Year:	2016
Contact Information:	
Name:	Marlene Lagoa
Position:	Community Development Coordinator
Telephone Number:	250-414-7114
Email address:	marlene.lagoa@esquimalt.ca

Stationary Energy GHG Emission Sources:				
Fuel	End Use	Unit of Measure	Quantity	Emissions (tCO ₂ e)
Electricity	Engineering & Public Works	kWh	180,060	1.9
Electricity	Fire	kWh	311,400	3.3
Electricity	Municipal Hall	kWh	333,583	3.6
Electricity	Parks & Recreation	kWh	3,580,431	38.2
Electricity	Infrastructure (sewer/traffic/lighting)	kWh	880,669	9.4
Electricity		kWh	0	-
Natural Gas	Engineering & Public Works	GJ	215	10.7
Natural Gas	Fire	GJ	-	-
Natural Gas	Municipal Hall	GJ	220	11.0
Natural Gas	Parks & Recreation	GJ	14,897	742.9
Natural Gas	Infrastructure (sewer/traffic/lighting)	GJ	-	-
Natural Gas		GJ	0	-
Propane	Engineering & Public Works	Litres	-	-
Propane	Fire	Litres	-	-
Propane	Municipal Hall	Litres	-	-
Propane	Parks & Recreation	Litres	55	-
Propane	Infrastructure (sewer/traffic/lighting)	Litres	-	-
Propane		Litres	0	-
Heating Oil	Engineering & Public Works	Litres	-	-
Heating Oil	Fire	Litres	-	-
Heating Oil	Municipal Hall	Litres	-	-
Heating Oil	Parks & Recreation	Litres	-	-
Heating Oil	Infrastructure (sewer/traffic/lighting)	Litres	-	-
Heating Oil		Litres	0	-

Stationary Energy GHG Emissions (all fuel types) **821.0**

Stationary Energy Refrigerant GHG Emissions **-**

Imported Steam or District Heat GHG Emissions			
Tier	Unit of Measure	Quantity	Emissions (tCO ₂ e)
	MWh	-	-

Imported Steam or District Heat GHG Emissions **-**

Mobile GHG Emission Sources:				
Vehicle Class	Vehicle Fuel	Unit of Measure	Quantity	Emissions (tCO ₂ e)
Light Duty Vehicle	Gasoline	Litres	2,205	5.2
Light Duty Truck	Gasoline	Litres	31,580	75.1
Heavy Duty Truck	Gasoline	Litres	10,092	22.8
Off Road Vehicle	Gasoline	Litres	2,592	5.8
Light Duty Vehicle	E10	Litres	-	-
Light Duty Truck	E10	Litres	-	-
Heavy Duty Truck	E10	Litres	-	-
Off Road Vehicle	E10	Litres	-	-
Light Duty Vehicle	E15	Litres	-	-
Light Duty Truck	E15	Litres	-	-
Heavy Duty Truck	E15	Litres	-	-
Off Road Vehicle	E15	Litres	-	-
Light Duty Vehicle	Diesel	Litres	-	-
Light Duty Truck	Diesel	Litres	-	-
Heavy Duty Truck	Diesel	Litres	-	-
Off Road Vehicle	Diesel	Litres	-	-
Light Duty Vehicle	B5	Litres	-	-
Light Duty Truck	B5	Litres	110	0.3
Heavy Duty Truck	B5	Litres	46,496	116.9
Off Road Vehicle	B5	Litres	13,555	37.7
Light Duty Vehicle	B10	Litres	-	-
Light Duty Truck	B10	Litres	-	-
Heavy Duty Truck	B10	Litres	-	-
Off Road Vehicle	B10	Litres	-	-
Light Duty Vehicle	B20	Litres	-	-
Light Duty Truck	B20	Litres	-	-
Heavy Duty Truck	B20	Litres	-	-
Off Road Vehicle	B20	Litres	-	-
Light Duty Vehicle	Natural Gas	kg	-	-
Light Duty Truck	Natural Gas	kg	-	-
Heavy Duty Truck	Natural Gas	kg	-	-
Off Road Vehicle	Natural Gas	kg	-	-
Light Duty Vehicle	Propane	Litres	2,388	3.7
Light Duty Truck	Propane	Litres	4,011	6.2
Heavy Duty Truck	Propane	Litres	-	-
Off Road Vehicle	Propane	Litres	-	-

Mobile GHG Emissions (all fuel / vehicle combinations) **113,029** **273.6**

Fleet A/C Refrigerant GHG Emissions **18.0**

Total GHG Emissions (all Sources) **1,112.6**