

Table 2: Corporate GHG emissions reduction measures from 2004 to 2008

Waste	Landfill gas to energy facility, expansion of gas collection system
Facilities	Energy Retrofit Program Green Building Policy for corporate buildings
OC Transpo Fleet	56 older buses retrofitted 331 buses retired with an average age of 18-24 years B5 soy-based biodiesel trial test 2 Ultra-low sulphur diesel buses trial tested for fuel savings 25 buses participated in a tire pressure monitoring study to indicate fuel savings Trial 3 double deckers (automatic engine shutdown on idle, on-board tire-pressure monitoring) Driver Training 30 buses on biodiesel 2 hybrid buses
Municipal Fleet	Corporate Vehicle and Equipment Idling Policy Corporate Anti-idling Awareness Campaign Unregulated emission vehicles replacement 3 hybrid vehicles
Police Fleet	Tested anti-idling technology in 2 vehicles
Wastewater / Sewage	Replaced refrigeration unit at ROPEC, more energy efficient Water Efficiency Strategy

Table 3. Corporate GHG emission reduction measures from 2009 to 2012 (not exhaustive)

Waste	<p>Source separated organics program</p> <p>Bi-weekly collection of garbage</p> <p>Recyclables be co-collected in split vehicle (reduce collection fleet and fuel)</p> <p>Municipal Waste Master Plan -long term plan to handle waste</p>
Facilities	<p>The upgrade of lighting on 26 ice pads</p> <p>Lighting projects at 89 small facilities and 10 large facilities</p> <p>Lighting upgrades (metal halide to T5 fluorescent; T5 to T8 fluorescent)</p> <p>Major lighting projects: Merivale bus garage, 100 Constellation, 13 other facilities</p> <p>2 pilot projects LED lighting New building automation systems at 5 City facilities</p> <p>Oil heating to natural gas conversion: Alfred Taylor Recreation Centre, Carp Memorial Hall</p> <p>Electric heating to natural gas conversion: Agincourt Field House, Vernon Community Centre</p> <p>Electric to natural gas conversion of humidification: Carleton Lodge</p> <p>Propane heating to natural gas conversion: Vernon Library</p> <p>Heat reclamation off the refrigeration system at Blackburn arena</p> <p>Variable speed drives on air handling units at the Main library</p> <p>Carleton Lodge Water upgrades</p> <p>Pool cover on St Laurent pool and Brewer pool</p>

Patron controlled stand heating at Walter Baker and the Nepean Sportsplex

Building Automation System installations or enhancements where old or inefficient

Variable speed drives to replaces inlet vanes on air handling units

A monitoring system for temperature, humidity, and energy use in the main server room at 100 Constellation and upgraded controls to optimize energy use for air handling units

Conversion of water-cooled air conditioning at Bob MacQuarrie Recreation Centre

Conversion from oil, propane, or electricity for heating or humidification at 8 facilities

Conversion of toilets to low water use models at 24 facilities

Pilot program of solar panels on City Hall and OC Transpo building; two solar parks (Trail Road)

Replace older toilets with low-flow units

LED Light Source Evaluation Pilots for Right of Way Applications

**OC Transpo
Fleet**

Driver Training

Monitor bio-diesel cost for possible implementation

Participate in government-led retrofit programs to reduce emission from older buses

Execute a multi-phased implementation plan for hybrid diesel-electric technology

Right sizing non-revenue fleet

Smart Bus

	<p>Network Optimization - reduced kilometres travelled</p> <p>75 Double decker Buses - lower # of buses and GHGs due to growth</p> <p>Intensive fuel management program</p> <p>Decrease average age of fleet, more efficient on average</p> <p>175 Hybrid Buses; 306 Articulated Bus Purchase (more fuel efficient)</p>
O-Train Fleet	<p>Preliminary work for Train purchases</p>
Municipal Fleet	<p>4 Electric Zamboni's</p> <p>37 Hybrid Vehicles</p> <p>New vehicle technology increasing fuel efficiencies</p> <p>Potential to replace vehicles with technology at TR4 over TR3</p> <p>Right-sizing vehicles</p> <p>Introduction of bio-fuels (e.g. biodiesel and ethanol)</p>
Police Fleet	<p>NRC and City of Ottawa enter MOU to develop anti-idling equipment</p> <p>Install anti-idling equipment in 10 vehicles in first half of 2012, additional purchases in later half of 2012 (are reusable)</p>
Wastewater/ Sewage	<p>New gas compressor due to regulated change requirement</p> <p>Water Efficiency Strategy</p> <p>Water loss control</p> <p>Infrastructure renewal</p>