



Hamilton
Public Works

Public Works
Transportation, Energy & Facilities Division

Green Fleet Planning in Hamilton
October 6, 2009



Situation

- Community
- People
- Processes
- Finance



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Commitment Since 2005

Smart ForTwo – micro car	2
Honda Civic – hybrid car	2
Toyota Prius – hybrid car	6
Toyota Camry – hybrid car	2
Ford Escape – hybrid car	70
Chevrolet Silverado – hybrid pickup	12
Saturn Vue – hybrid car	13
Vehicles with “idle-free” interior heaters	6
Vehicles with auxiliary batteries for lights	6
Ford E250 – natural gas van, pickup	6
John Deere Gator – electric utility vehicle	7
Tymco regenerative street sweepers	16
Solar-powered arrow boards	15
Natural-gas buses	94
New Flyer diesel-electric hybrid buses	30
Diesel vehicles using B5 biodiesel at Central Garage	77
Total Green Fleet	364
Total Overall Fleet	1,569
Green Fleet Percentage of overall fleet	23

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Phase One Results 2006-2008

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Action	Target Result	Actual Result
Increase use of hybrids	46 new vehicles	105 new vehicles
Hybrid GHG emissions	Reduced 111 tonnes	Reduced 210 tonnes
Use biodiesel	21.0 million litres at 10%	2.8 million litres at 5%
Biodiesel GHG emissions	Reduced 3,892 tonnes	Reduced 336 tonnes

Accomplishments in Phase 1

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1. Green Fleet Expo
2. Green Fleet Rating and E3 Award
3. Fleet Challenge Ontario Workshops
4. Electric Vehicle Technology Roadmap
5. Environmental Management System Standard ISO 14001 at Central Garage
6. Bulk Fuel Tank Replacement
7. Greenhouse Gas and Air Contaminants Inventory
8. Clean Air Hamilton
9. GreenApple Ranking
10. FLEETtool.ca

Objectives for Phase 2

1. Reduce emissions of greenhouse gases to meet the targets in the City's Strategic Plan.
2. Reduce fuel use and improve litres/100 km results.
3. Maintain Hamilton's place as a leading Green Fleet.

In 2008 Council approved the City of Hamilton Strategic Plan 2008-2011. A commitment to prepare this document was made in Key Activity 6.2.1:

“Update the Green Fleet Plan by 2009 with an objective of lowering greenhouse gas (GHG) emissions per kilometer traveled by 2% per year.”

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List of Tactics

1. Auxiliary power units and batteries
2. Block Heaters
3. On-board computer displays
4. Aggressive Driving
5. Idling, light-duty vehicles
6. Idling, heavy-duty trucks
7. Speed
8. Winter driving

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Tactics (continued)

9. Driver Training

10. Purchasing Decisions

11. Transportation Demand Management

12. Alternative Fuels (biodiesel, ethanol, natural gas, propane, hydrogen, electricity)

13. Hybrid light duty vehicles

14. Hybrid heavy-duty vehicles

15. Maintenance (air conditioners, lubricants, tires)

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Conclusion

Next steps

Future of green fleet planning in Ontario

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- Electric vehicles
- More mass transit especially railways
- Cycling and walking
- Fleet downsizing
- Priority for fuel conservation



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