

Richmond's Fleet Analysis

Shelley Campbell, Ronnie Clements, Joseph Griffiths, and Benjamin Leach

2012

URSP 691.901

Professor Pitt

12/5/2012

Goals of the Project

- Determine the nature of the fleet today
- Analyze the possibilities of a green fleet
- Understand the unique needs of the city
- Learn from other cities
- Make recommendations to help the city create its green fleet policy



<http://www.vacleancities.org/news/chesapeake-to-convert-city-trash-trucks-to-clean-fuel-build-public-station/>

Methodology

- Gather and analyze information on the Hybrid electric Ford Focus



- Gather and analyze information on the city's 25 CNG refuse trucks

- Conduct a Focus Group with refuse collectors
- Conduct Best Practices Research



RECOMMENDATIONS

➤ Create Green Fleet Plan

- Vision addressing “why” and “what”
- Baseline inventory
- Make the plan the responsibility of a central fleet authority
- Establish standards of information for the M5 Database system

➤ Optimize Fuel Efficiency

- “Right-size” the fleet
- Enhance preventative maintenance program
- Enhance efficient operation standards

RECOMMENDATIONS

➤ Increase Alternative Fuel Use

- Electric and CNG
- Increase infrastructure
- Partner with fuel and energy companies for procurement
- Virginia Clean Cities as a resource for grants

➤ Awareness/Marketing/Promotion

- Increase awareness among City employees
- Increase collaboration between departments
- Increase awareness among city residents