Fleet Sustainability

City of Greenville
South Carolina

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City of Greenville Fleet

Fleet Services Maintains All City Vehicles Except for Fire Department

3 Main Fleet Services Customers:
- Parks & Recreation
- Police
- Public Works
  - Streets
  - Waste Water
  - Storm Water
- Sanitation
- Traffic Engineering
City of Greenville Fleet

Independent Comprehensive Audit Performed in 2013

Study Results:

- 827 Vehicles
- Average Age of 9.6 Yrs
- Fleet consumes too much fuel
- Fleet is too big; reduction a must
Typical Fleet Challenges

• Aging Fleet
• Lack of Programmed Replacement Schedule
• Insufficient Training for Technicians
• Lack of Defined Policies / SOPs
• Lack of Centralized Fleet Control / Planning
Elements of Fleet Sustainability

- Vehicle Specification & Acquisition
  - Police = 7yrs
  - Heavy Specialty = 8
  - Sedans/Pickups = 10
  - Construction Eq/Trailers = 15yrs
- Asset Management & Vehicle Utilization
- Fuel Management
  - Monitor MPG and GPH
- Vehicle Maintenance
How to Reduce Fleet Costs

Improve Fuel Efficiency
• Reduce Idle time
• Gain operator buy in

Reduce Fleet Size
• Develop motor pools to improve utilization

Reduce Vehicle Miles
• Optimize vehicle routes
Parameters for Change

All Changes Geared Towards Maintaining or Improving Levels of Service

Work Collaboratively with Division Heads to develop effective motor-pools

Overall Goal of Reducing Average Fleet Size by 15%

Reduce fuel consumption/Emissions
Strategies for Reducing Fleet Size

Automate Solid Waste Collection – Goal of Reducing 111 Vehicles down to 41

Eliminate Redundant Vehicles

- It was discovered that the City had a total of 7 Forklifts and 10 Bucket Trucks
Strategies for Reducing Fleet Size

Create Fuel Efficient Motor-Pools
- Remove older less fuel efficient vehicles

Combine routes/trips
- Not everyone has to drive separately

Adhere to a strict PM/Tire program
Reducing Idling

Purchase Vehicles/Equipment with Auto Shut Down

• Vehicles programmed to shut down automatically after 10 minutes of idling

Use Solar A/C and lighting units

• Battery powered A/C
• LED lights
Results To Date

Fleet Reduced from 827 Vehicles to 675 (18.3% Reduction)

Average Fleet Age Reduced from 9.6 Yrs to 6.1 Yrs

Another 100 Vehicles listed as DNR

Goal of Reaching Average Fleet Age of 4.5 Yrs on track to be realized in another 2 Yrs
Reduction in Fleet Emissions

Elimination of 200 Vehicles Resulted in an estimated Reduction in Greenhouse Gas Emissions of 940 Tons of Carbon Dioxide per Year

Once the additional 100 DNR Vehicles are Purged, Total Greenhouse Gas Emissions will be reduced by More than 1,400 Tons of Carbon Dioxide per Year
Cost Savings

Surplus Vehicle Sales in the Past 3 Years in Excess of $1.5 Million

Fuel Consumption, Vehicle Parts Cost, and Outside Repair Costs Are All Declining

Removing 300 Vehicles from the Comprehensive Replacement Schedule Results in a Lifetime Cost Savings of $21 Million
Accolades Received in 2017/18 by City of Greenville Fleet Services

Named #9 Best Fleet in the Americas 2018 by 100 Best Fleets

Named #7 50 Leading Fleets 2018 by APWA and Government Fleet Magazine

Named #1 Mid-Size Fleet by APWA’s 50 Leading Fleets 2017