



SUSTAINABILITY

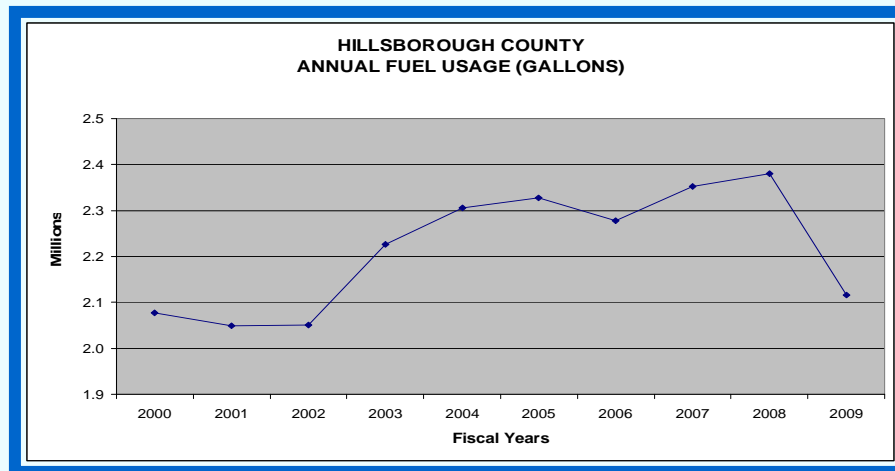


ENERGY | ENVIRONMENT | ECONOMICS



Fleet Rightsizing/Fuel Reduction

- Reduced fleet by 400+ vehicles and pieces of equipment
- V8's have been replaced with V6's
- Full size trucks replaced with smaller off road vehicles
- Fuel usage was down 264k gallons in FY09 – lowest since FY02
- An 11.37% reduction in the County's Carbon Footprint





Engine Oil Reduction

Installation of on-board oil filtration technology systems virtually eliminates the need for oil changes on certain pieces of heavy duty vehicles and equipment.

Benefits:

Economics: Estimated savings is \$460,044 over the useful life of the included vehicles

– Fire Apparatus & Ambulances; Solid Waste tractors; Sunshine Line buses

Energy & Environmental: 90% reduction in engine oil consumption/generation, handling and storage

Performance: Longer engine life and improved fuel economy

Operational: Reduced vehicle/equipment downtime

Customer Service: Reduced operator downtime and trips to the maintenance facility

Maintenance: Reduced technician time spent on routine tasks





Green Star Facilities

- The Hillsborough County EPC Green Star Certification Program is designed to encourage auto repair facilities to implement Best Management Practices and Pollution Prevention strategies.
- Green Star Certification has been attained at all four fleet maintenance locations.
- The Green Star program is a non-regulatory program developed by the Florida Department of Environmental Protection that encourages auto repair facilities to go above and beyond the basic compliance measures
- Implemented 22 Best Management Practices (BMPs) and At least 1 Pollution Prevention (P2) Strategy





Alternative Fuel Vehicles

Honda Civic GX :

- Recognized by the U.S. EPA as the cleanest commercially available, internal-combustion vehicle
- Produces less than two pounds of hydrocarbons in 100K miles (equivalent to spilling one pint of gasoline)
- 113 hp 4-cyl engine
- Five speed automatic transmission
- City/Hwy Fuel Economy 24/36
- Estimated driving range 170 miles
- Eight gallon CNG tank @ 3,600psi
- 10K mile oil change intervals





Alternative Fuel Vehicles

Traffic Hybrid Platform Truck

These trucks operate the platform lift on battery power with the engine off at intersections conserving fuel and improving air quality

Energy & Environment:

- Up to 60% reduction in fuel consumption for utility type applications
- 30% to 40% reduction in fuel consumption for city driving conditions
- Up to 87% reduction in idle times
- Quieter operations and better acceleration
- Reduced emissions

Economics

- Reduced maintenance and lower life cycle costs
- Up to \$5,700 annual cost savings (due to reduced fuel consumption and maintenance costs)
- Increased brake replacement intervals





Hybrids



There are 20 hybrid electric vehicles in the fleet averaging 40 mpg for sedans and 26.4 mpg for SUV's



Future Initiatives

ARRA Stimulus grant received \$690k

Anti-Idling Technology (AIM2 ®)

- Upgrade 1,800 vehicles with AIM2 units
- This technology will allow for the monitoring of 25 data sources from the vehicle to include engine idling and other mechanical defects affecting emissions.

Global Electric Motor (GEM) Cars

- 1st unit to arrive in the Spring – Upper Tampa Bay Trail





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