

# Integrating Sustainable Fleet Management Practices into ORNL's EMS



**Susan Michaud, ORNL  
Pollution Prevention  
Program Manager  
sun@ornl.gov**

**DOE Environmental Sustainability  
Session**

**June 5, 2008**

# Green Transportation Initiative Team



# ORNL Green Transportation Initiative

- **Revitalization of the ORNL Campus**
  - **New buildings in close proximity**
  - **Walkways and Landscaping invite walking and biking**
  - **Vehicle roundabout**



# ORNL Green Transportation Initiative

- Encourage biking
  - Bike Lane on Bethel Valley Road
  - Healthfest organizes bike rides into work
  - \*New\* Bike rider parking lot on Bethel Valley Road





# ORNL Green Transportation Initiative

- **On-site taxi**
- **Employee carpooling homepage**
- **Promote employee awareness of alternative vehicles – Earth Day**



# ORNL Fleet Management

- **Passenger vehicles E-85**
  - **FY 2007 118 flex fuel vehicles (25% of fleet)**
  - **Now 150 vehicles (34% of fleet)**
  - **On-site 8,000 gallon tank**
  - **In FY 2007 64% vehicles acquired were flex fuel**
  - **29,558 gallons used in FY 2007**



# ORNL Fleet Management

- **Tank was the key to consistent use of E-85 fuel**



# ORNL Biodiesel – B20

**45 diesel vehicles and many pieces of equipment**

**6,000 gallon biodiesel tank**

**80 gallon tanker truck**



**Existing diesel tank was cleaned out and we transitioned from B5 to B20 over several months.**

**Note: we still use traditional diesel fuel in emergency generators**



# ORNL Green Transportation – What Went Right

- **Champion – Mark Downing (ESD)**
  - 865-576-8140
  - [downingme@ornl.gov](mailto:downingme@ornl.gov)
- **Fresh soil**
- **Success in other areas: LEEDs, Energy Efficiency**
- **Fleet Manager Kathye Settles**
  - 865-574-4326
  - [settleske@ornl.gov](mailto:settleske@ornl.gov)

# ORNL Green Transportation - What Went Right

- **Good Technical Guidance**
- **Clean Tank**
- **Biodiesel is a corrosive fuel – ORNL has old vehicles.**
- **Reputable supplier**
- **It's just fuel – it won't fix mechanical problems**
- **Talk to experienced people**
- **National Park Service and Department of Defense have years of experience**

# What Do We Need for Continued Improvement

- **Information**
- **Site-level feedback on what works**
- **FAST (or other source) information on individual vehicles**

# Transportation in ORNL EMS

- **Executive Order 13149 (current)**
- **Executive Order 13423, Strengthening Federal Environmental, Energy, and Transportation Management**
- **DOE Order 450.1A**

## **ORNL Crosswalk Approach**

**Regulatory Requirement**

**ORNL Goal**

**Responsible organization**