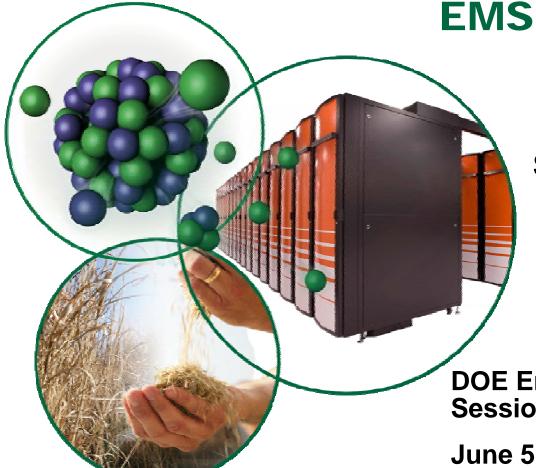
Integrating Sustainable Fleet Management Practices into ORNL's



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

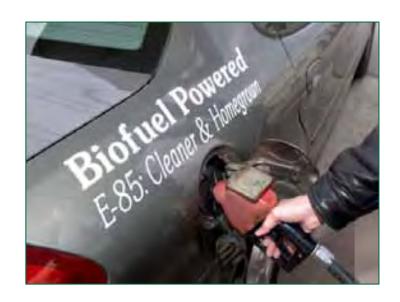
- On-site taxi
- Employee carpooling homepage
- Promote employee awareness of alternative vehicles – Earth Day





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
- Fresh soil
- Success in other areas: LEEDs, Energy Efficiency
- Fleet Manager Kathye Settles
 - **865-574-4326**
 - 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

