

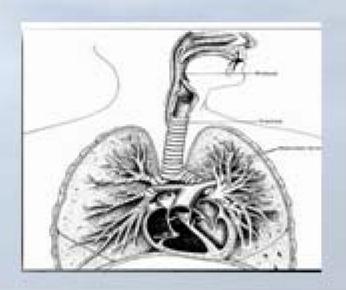
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U.S. EPA Region III

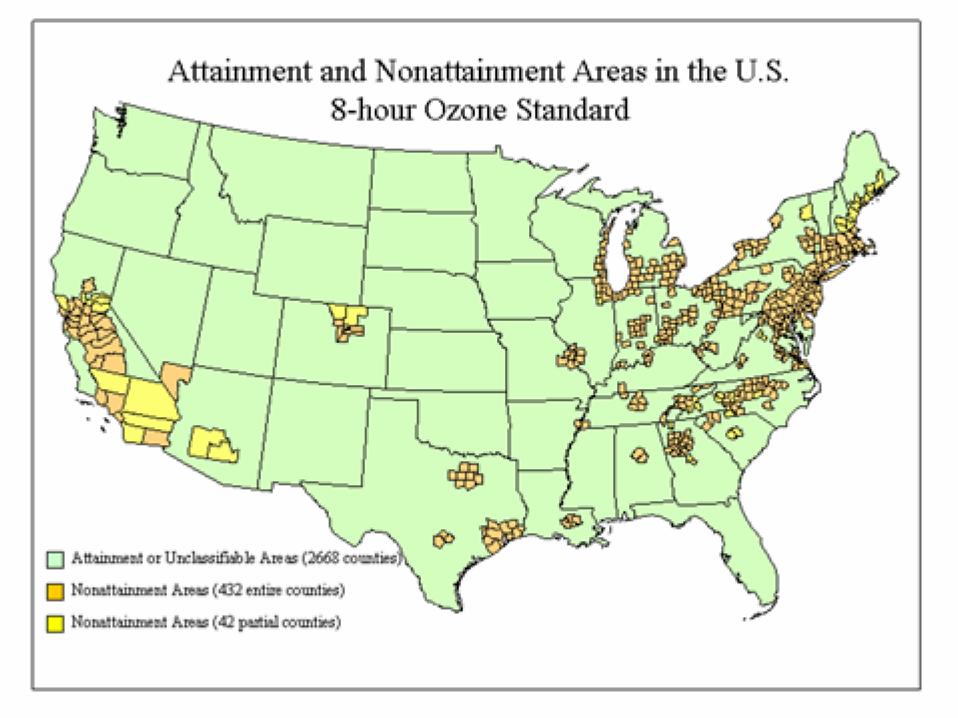
EPA's Mission

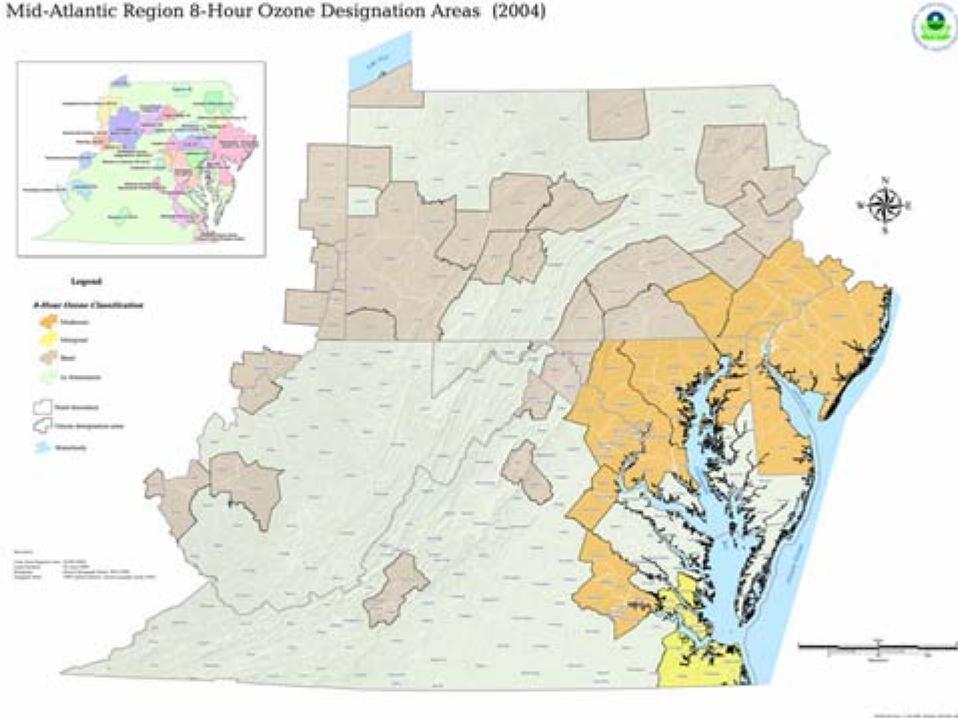
To protect human health and to safeguard the natural environment -- air, water, and land -- upon which life depends.

The Clean Air Act

- established six criteria pollutants
 - ozone
 - carbon monoxide
 - nitrogen dioxide
 - sulfur dioxide
 - · particulate matter
 - lead







Mobile Sources

Planes, trains, and automobiles ...trucks and buses and boats and "nonroad" equipment

Significantly impact air quality and climate change

- Criteria pollutants: NOx, PM, CO, O₃
- Greenhouse gases: CO2

Mobile sources currently contribute about:

- 79% of all CO emissions
- 53% of all NOx emissions
- 43% of all VOC emissions
- 30 % of all CO₂ emissions
- 21% of all PM_{2.5} emissions

What is the SmartWay Transport Partnership?

- Voluntary partnership between EPA and the freight industry that will:
 - Increase energy efficiency and energy security
 - Reduce air pollution and greenhouse gases
- Attempts Ambitious Emission Reduction Goals:
 - 150 million barrels of oil each year (12 million cars off the road)
 - 33 to 66 million metric tons CO₂ annually by 2012
 - 200,000 tons NOx annually, plus PM and air toxics benefits
- Comprised of Three Major Components:
 - Corporate Partnerships
 - National Transportation Idle-Free Corridors
 - Rail/Intermodal Operations

The Need for SmartWay Transport Partnerships

Ground freight is a cornerstone of the US economy

- Trucks carry 70% of the total weight of US cargo
- Railroads carry 14% of the total weight of US cargo

Freight activity has vast impact

- Our nation's roadways currently carry over 6 million single-unit and 2 million combination trucks
- Each year those trucks:
 - drive 200 billion miles,
 - emit 294 million tons of greenhouse gases,
 - emit over 4 million tons of nitrogen oxides, and
 - emit over 190,000 tons of particulate matter

The Need for SmartWay Transport Partnerships

•Truck and Rail:

- -Consume over 35 billion gallons of fuel
- -Account for nearly 20% of transportation related energy use
- -Produce approximately 350 million metric tons of CO₂
- Over the next decade this impact will increase dramatically
 - –Increasing internet sales
 - -Faster delivery schedules

35 Billion Gallons



45 Billion Gallons



Part 1 -- Partnerships with Carriers and Shippers

Carriers: move goods across the country

- these fleets range in size from thousands of trucks to individual owners
- Varying degrees of technical and operational sophistication

Shippers: sell retail goods to the public

- Shippers hire carriers to move their freight
- Carriers compete fiercely for shipper contracts

Creating Partnerships

How to Become a Partner

- Carriers measure efficiency and emissions & commit to improve
 - Use FLEET model to establish baseline and commitment
- Shippers commit 50%+ freight with SmartWay Transport fleets

Who are Potential Partners?

- Every company that ships goods via truck or rail
- 500,000 heavy-duty fleets in United States
 - Fewer than 1,000 fleets are highly-efficient "mega-fleets"
 - Many "middle of the pack" (50-400 trucks) and smaller fleets of varying efficiency and ability to improve

SmartWay Transport offers incentives for all Partners

- EPA will recognize as a Partner <u>any</u> fleet or shipper that commits to improve efficiency and reduce emissions
- The most highly-efficient fleets and shippers merit access to SmartWay Transport logo (like Energy Star, but for transport)
- Partners that achieve commitment also eligible to use logo

Performance Improvements



Carrier Partnerships

Any size or type of carrier or fleet can join the Partnership

Carriers:

- Measure current environmental performance with the FLEET Performance Model
- Commit to improve environmental performance within 3 yrs
- Sign the Partnership Agreement

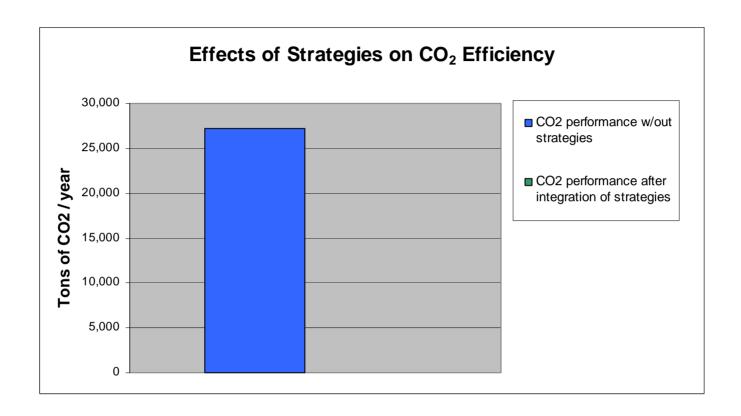
Carrier partners can use the logo when:

- Demonstrate superior environmental performance:
 - ➤ Achieve a 40% CO₂ efficiency rating

OR

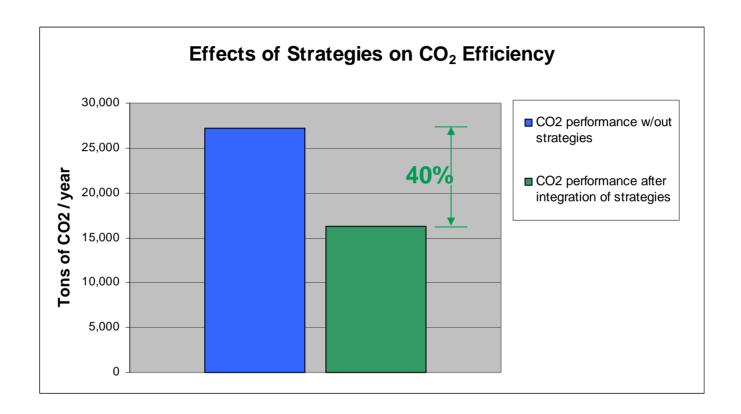
▶ Demonstrate at least a 25% CO₂ efficiency rating AND set and achieve an aggressive improvement goal
•12

What is Superior Environmental Performance?



No environmental strategies

What is Superior Environmental Performance?





Effect of adding strategies:

- Speed @ 62 mph
- Eliminate Idling
- Intermodal use
- Auto tire inflation
- Synthetic lubes

- Aerodynamics
- Double trailers
- Weight reduction
- Super single tires
- Engine upgrades

Current SmartWay Transport Partners



Partners

American Cartage



























































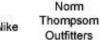










































The SmartWay Transport Partnership Logo



Current Region III Partners

- Ikea Plymouth Meeting, PA
- Burns Motor Freight Marlington, WV
- Commercial Transportation Phila, PA
- Gwaltney Transportation -Smithfield, VA
- Michel Distribution Aberdeen, MD
- Overnite Transportation Richmond, VA
- Smithfield Packing Smithfield, VA
- USA Cartage Williamsport, MD

Summary of Partnership Benefits and Support

FLEET Performance Model:

- Assesses fuel efficiency and CO₂, NOx and PM emissions
- Estimates emissions reductions from fleet enhancements

Roster of SmartWay Partners:

- Published on SmartWay Transport web site
- Lists all SmartWay Transport Partner carriers and shippers
- Those listed on Roster become preferred Carriers for SmartWay Transport Shippers

SmartWay Logo:

- Mark of excellence that will recognize environmental leaders
- Similar to Energy Star; provides recognizable symbol that informs consumers, competitors and business partners about a company's environmental commitment and achievement





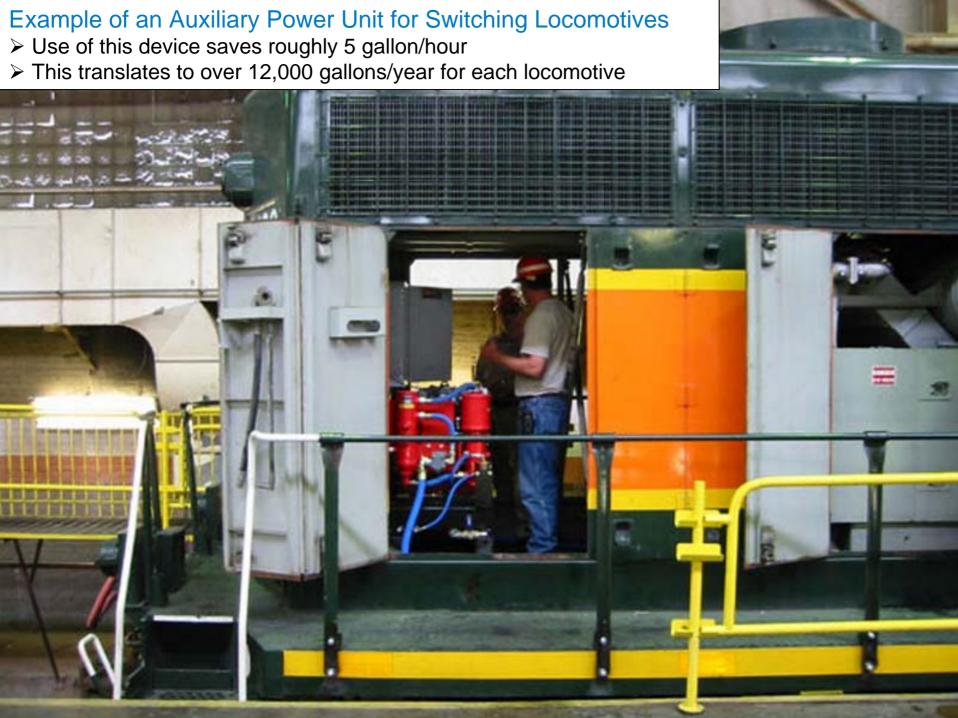
Part 3 - Maximize Rail Efficiency

Rail is very efficient, but underutilized

- Rail nearly 9 times more efficient than truck, on ton-mile basis
- Current trends (sprawl, service versus manufacturing economy) favor more energy-intensive modes (truck, air)

SmartWay Transport encourages expanded rail use, where and when appropriate

- Promote greater use of intermodal rail freight moves among shippers and freight providers (e.g., waste hauling)
- Encourage demonstration projects and tests of advanced rail technologies



Communities and States are KEY to SmartWay Transport Partnership Success

State/Community Partnership opportunities

- State/Local fleets can be SmartWay Transport Partners
- States and communities can encourage "home town" shippers and carriers to join the Partnership

State/Community Idle Reduction options

- States can receive SIP credit for truck and locomotive idle reduction
- States and communities can encourage idle-free corridors with CMAQ and other public and private funds

States/Communities can promote rail as appropriate

Deliver More.

Join the SmartWay Transport Partnership

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