MARYLAND
Department of the Environment

# *Facts About...*

## SMARTWAY TRANSPORT PROGRAM

SmartWay Transport is a voluntary partnership between various freight industry sectors and EPA that establishes incentives for fuel efficiency improvements and greenhouse gas emissions reductions. By 2012, this initiative aims to:

- Reduce $CO_2$ emissions between 40 to 70 million tons per year
- Reduce NOx emissions up to 0.2 million tons per year
- Save fuel up to 150 million barrels of oil annually

There are three primary components of the program: creating partnerships, reducing unnecessary engine idling, and increasing the efficiency and use of rail and intermodal operations.

**SmartWay Transport Partners**

Key Partners are companies that ship products and the truck and rail companies that deliver these products. Partners commit to measure and improve the efficiency of their freight operations, using EPA-developed tools that quantify the benefits of a number of fuel-saving strategies.

Fleets wishing to join the SmartWay Transport Partnership commit to:

- Measure the environmental performance of their existing operations by using the EPA's FLEET Performance Model for Carriers
- Identify a goal to improve the environmental performance of their operations
- Develop a plan detailing how the goal will be achieved
- Report their progress annually to EPA

In return, EPA commits to:

- Increase public awareness of the Fleets participation in the SmartWay Transport Partnership through national and regional events, articles, and awards
- Provide technical assistance to help to develop and meet goals
- Create incentives to facilitate the introduction of innovative technology
- Provide qualifying partners the SmartWay Transport Partner logo

**Using the SmartWay Partner Logo**

Shippers and carriers will be able to advertise the official SmartWay Transport Partner logo based upon their results of the FLEET (Fleet Logistics Energy and Environmental Tracking) Performance Model (Scores). The FLEET Performance Model for carriers generates three scores, one for $CO_2$, one for NOx, and one for PM. Carrier Partners must have a FLEET Performance Model Composite score of 1.0 or higher to use the SmartWay Transport Partner logo.

The FLEET Performance Model for shippers generates a score describing what percentage of freight is moved by SmartWay Transport Partner carriers. The score is generated by multiplying the percentage of freight a shipper moves with each carrier by that carrier's Shipper Index Factor (SIF) and summing the results. To qualify to use the SmartWay Transport Partner logo, a Shipper must score 50% or higher.

| SmartWay Technology Options | Cost | Fuel Savings (1) | Net Monthly Savings (2) |
|---|---|---|---|
| Improved Trailer Aerodynamics | $ 2,400 | 5% | $ 166 |
| Automatic Tire Inflation Systems | $ 900 | 0.6% | $ 5 |
| Single Wide Tires | $ 3,000 | 4% | $ 106 |
| Direct Fired (bunk) Heater | $ 1,500 | 0.8 gal/hr | $ 219 |
| Auxiliary Power Unit (APU) | $ 7,000 | 0.6 gal/hr | $ 216 |
| Diesel Oxidation Catalyst (DOC) | $ 1,200 | >20% PM | $ (30) |
| Diesel Particulate Filter (DPF) | $ 9,000 | >90% PM | $ (224) |

(1) Based on annual mileage of 16,677 miles, annual idling of 2,400 hours and diesel fuel cost of $3.25 per gallon.

(2) Assumes monthly loan payment @ 9% for 48 months

EPA Verified Technologies (Idle Reduction, Aerodynamics, Low Rolling Resistance Tires, Retrofits)

**Financing Options**

SmartWay is exploring a number of options to help trucking companies reduce their fuel consumption and costs and make funds available for the purchase of SmartWay Upgrade Kits. Some states have existing loan programs through their small business or environmental offices that may be able to finance SmartWay Upgrade Kits.

Programs could be nationally available and offer below-market rates or preferred terms for trucking companies. For example, variable loan rates such as Prime plus 4% using buy-down incentives might become available.

**State Implementation Plan (SIP) Guidelines**

- **Truck Idling**

  Guidance for Quantifying and Using Long Duration Truck Idling Emission Reductions in State Implementation Plans and Transportation Conformity (EPA420-B-04-001 January 2004): http://www.epa.gov/oms/smartway/documents/420b04001.pdf (PDF)

- **Diesel Retrofits**

  Diesel Retrofits: Quantifying and Using Their Benefits in SIPs and Conformity - Guidance for State and Local Air and Transportation Agencies (PDF, 69 pages, 531K) (EPA420-B-06-005, June 2006)

  This guidance discusses how emission reductions from diesel retrofit projects can be used in a SIP and in transportation conformity and general conformity determinations.

- **Smartway Upgrade Kits**

  SmartWay SIP and Transportation Conformity Guidance

  This document describes how to quantify and use reductions in nitrogen oxides (NOx) that result when trucks are outfitted with two specific SmartWay fuel-efficient technologies: trailer aerodynamic kits and low-rolling resistant tires.