



A **stronger** economy.

A **healthier** environment.

*SmartWay*  
*Transport Partners*  
**DELIVER.**



Improving Efficiency of Freight Movement with  
EPA's SmartWay<sup>®</sup> Transport Partnership

# What is the SmartWay Transport Partnership?

- **Launched February 9, 2004**
- **Voluntary Public-Private Partnership between EPA and the freight industry:**
  - Developed jointly by EPA and 15 Charter Partners
  - Freight industry interests: reduce fuel consumption, public recognition, improved public image
  - EPA interests: reduced emissions (CO<sub>2</sub>, NO<sub>x</sub>, PM) and improved energy security
  - No fees to participate
  - Open to companies of all sizes

# What is the SmartWay Transport Partnership?

- **Attempts Ambitious Emission Reduction Goals:**
  - 150 million barrels of oil each (12 million cars off the road)
  - 33 to 66 million metric tons CO<sub>2</sub> annually by 2012
  - 200,000 tons NO<sub>x</sub> annually, plus Particulate Matter and air toxics benefits

# How Does the Partnership Work?

- **Carriers:**
  - Sign partnership agreement to work toward improved efficiency, reduced emissions and fuel consumption over a 3 year period.
  - Carriers measure efficiency and emissions
    - Use FLEET model to establish baseline and commitment
  - Implementation of various technologies and strategies will help these partners reach their goals: idle reduction, advanced aerodynamics, single wide tires, driver training, improved logistics, etc.
- **Shippers:**
  - Agree to work toward shipping more of their product with SmartWay Carrier Partners, as well as improving their operations over a 3 year period.
  - Commit to 50%+ freight with SmartWay Transport fleets

# How Does the Partnership Work?

- **Logistics:**
  - Logistics companies, such as CH Robinson, serve as intermediaries between carriers and shippers
  - Agree to work toward shipping more freight with SmartWay Carrier Partners, as well as bringing more of their contracted carriers into the Partnership.
- **Affiliates:**
  - Affiliates are not-for-profit organizations, such as Lane Regional Air Pollution Agency and state trucking associations, that promote the Partnership
  - Agree to promote the Partnership to their members through workshops, press releases, etc.

# Benefits For Partners

- **Carriers:**
  - Gain competitive advantage as shippers strive to move more goods with SmartWay Transport carriers
  - Track emissions and fuel consumption
  - Do cost benefit analyses for different technologies and/or strategies
  - EPA recognition as SmartWay fleet
  - Access to SmartWay Transport logo (like Energy Star)

# Benefits For Partners

- **Shippers and Logistics Companies:**
  - Better info about transportation footprint
  - Demonstrate corporate citizenship by hiring environmentally minded carriers
- **Affiliates:**
  - Access to tools for marketing and outreach
  - Public recognition for promoting environmental goals

# Types of Strategies to Increase Efficiency

- Idling Reduction
- Improved Aerodynamics for tractors and trailers
- Low rolling resistance tires including super singles
- Alternative and sustainable fuels
- Hybrid technologies
- Speed management
- Increased/improved intermodal operations
- Lightweight materials
- Advanced lubricants

# Idle Reduction Technologies

## Average fuel savings    Emissions Controlled

1 gal/hr

CO<sub>2</sub>, NO<sub>x</sub>, and PM

- Truck Stop Electrification
- Auxiliary Power Unit/Generator Set
- Diesel Driven Heating System
- Battery Powered Systems



# Trailer Aerodynamics

## Average fuel savings

5%

- Gap Fairing
- Side Skirt

## Emissions Controlled

CO<sub>2</sub>, NO<sub>x</sub>



Side Skirt



Gap fairing

# SmartWay Partners with Side Skirts and Gap Fairings



# Low Rolling Resistance Tires

## Average fuel savings

4 - 5%

## Emissions Controlled

CO<sub>2</sub>, NO<sub>x</sub>

- Single-wide tires and aluminum wheels  
Reduced rolling resistance  
Reduced weight
- Low rolling resistance duals can be as effective as singles



# Upgrade Kit Financing Programs

- **LOANS:** Straight loans offered with terms that are more attractive than currently available commercial loans.
- <http://www.smartwayfinancecenter.com>
- **PARTNERSHIPS:** loans and leases are being offered through partners like Cascade Sierra Solutions

# SmartWay Today

- **Shippers incorporating SmartWay participation into carrier hiring decisions**
  - IKEA North America and Sharp Electronics moving to 100% shipping with SmartWay Partners
- **Testing & Technology Verification:**
  - Demonstrate fuel saving AND emission reduction potential of emerging technologies for legacy truck fleet
- **SmartWay Truck:**
  - SmartWay logo can now be used on low-emission, high fuel-efficiency trucks and trailers



# SmartWay Today

- **Approximately 600 Partners Nationwide & in Canada**
- **Virginia Partners**

Abilene Motor Express, Richmond  
Cargill Midatlantic, Mt. Crawford  
CK Courier, Charlottesville

Cox Transportation Services, Inc., Ashland  
Dometic Environmental Corporation, Mechanicsville

Estes Air Forwarding, LLC, Richmond  
Estes Express Lines, Richmond

Freightway Express, Inc., Clarksville  
George's Foods, LLC, Edinburg

Howell's Motor Freight, Inc., Roanoke  
Menlo Worldwide - Sandston

Nonstop Delivery, Arlington

Norfolk Southern Corporation, Norfolk

RMG Enterprises, Ltd., Fredericksburg

Smithfield Transportation Co., Inc., Smithfield

SOLUS Solutions and Technologies, LLC, Virginia Beach

UPS Freight, Richmond



# Marketing

## These Manufacturers Are Hauling The Best Logo In The Business



**Introducing SmartWay Certified Tractors & Trailers  
From These Manufacturers**

<b>Tractor makers:</b>	<b>Trailer makers:</b>
 Freightliner	 Great Dane
 International	 Trailmobile
 Kenworth	 Utility
 Mack	 Wabash
 Peterbilt	
 Volvo	

  
To learn more visit [epa.gov/smartway](http://epa.gov/smartway)

# For More Information

SmartWay Transport Partnership

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