

# SmartWay Transport Partnership

## Promoting Freight Efficiency through the SmartWay Program

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***Workshop on Transportation Energy Efficiency  
Improvement Potential in APEC Economies***

# Today's Presentation

- Overview of SmartWay freight sector program
  - Carrier-Shipper partnership program
  - Technology program
  - Finance program
- Looking toward the future
  - Working to update carbon tracking and assessment tools for partners
  - International activities

# The SmartWay Transport Partnership



- Partnership between EPA and freight transport industry to conserve fuel and reduce emissions.
- Launched in 2004, we now have 2600 Partners committed to increasing efficiency and reducing emissions.
  - Partners include truck and rail operators, freight shippers, logistics companies, technology vendors and manufacturers, trucks stops, ports, banks, dealer and service centers.
  - Since joining the program, partners have saved 14.7 million metric tons CO<sub>2</sub> and 1.5 billion gallons of diesel fuel (~\$3.5B in fuel costs).
- Capitalizing on shipper-carrier relationship to promote cost-effective emission reduction strategies.

# How Does The Partnership Work?

## Shippers:

- Top of the supply chain, drive marketplace demand
- Agree to do at least 50% of their business with SmartWay Carriers
- Get better data to improve their own shipping operations
- Modify logistics operations to improve efficiency & reduce emissions, for example:
  - Inter-modal Shipping
  - Full Truck Loads
  - Warehouse Improvements
  - Idle-Reduction at facilities
- Get recognition and PR value with SmartWay brand

## Carriers:

- Gain competitive advantage:
  - Preferred status, plus
  - Fuel efficiency, savings
- Set emissions reduction goals
- Agree to integrate fuel saving technologies and strategies into fleets, such as:
  - Idle Reduction
  - Improved Aerodynamics
  - Efficient Tire Systems
  - Driver Training
  - Renewable Fuels
  - Advanced Lubricants
- Get recognition and PR value with SmartWay brand

# Partnership Program Resources:

## GHG Inventory and Management Tool

1	Carrier Information	<b>Current Fleet Evaluation</b>	Current Fleet Summary	Action Plan Evaluation	Action Plan Summary	Annual Update Evaluation	Annual Update Summary	Print	Zip File for Mailing
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2 **2003 Fleet Efficiency Evaluation** 0 g

3

4 **STEP 1: General Information About Your Existing Fleet:**

5 1. For which year are you estimating the environmental performance of your fleet? **2003**

6

7	<b>Show Video Tutorial</b>		<b>Straight Trucks</b>						
8			Total # of trucks	Average Miles per truck per year	Total Miles	Total Fuel Consumption Gallons	Average payload (tons) per trip	Average Idling Hours per truck per year	Total Idling Hours
9									
10									
11	<b>Short Haul</b>	Diesel	100	8,000	800,000	129,032	10.00	10	1,000
12		Gasoline			0				0
13		Alternative Fuel	0	0	0	0	0	0	0
14	<b>Long Haul</b>	Diesel			0				0
15		Gasoline			0				0
16		Alternative Fuel	0	0	0	0	0	0	0
17			<b>Combination Trucks</b>						
18			Total # of trucks	Average Miles per Truck per Year	Total Miles	Total Fuel Consumption Gallons	Average payload (tons) per trip	Average Idling Hours per truck per year	Total Idling Hours
19									
20									
21	<b>Short Haul</b>	Diesel			0				0
22		Gasoline			0				0
23		Alternative Fuel	0	0	0	0	0	0	0
24									

# Partnership Program Resources:

## Truck Technology Package Savings Calculator

### Calculator for single-owner (one truck):

#### RESULTS:

Equipment	Cost	% Fuel Savings	Annual Fuel Savings	Monthly Fuel Savings	Monthly Loan Payment	Net Monthly Savings
APU, Tires, Aero	\$16500	17%	\$7627	\$636	(\$411)	\$225

#### STEP 1: ENTER YOUR TRUCK AND LOAN INFORMATION.

Enter your basic vehicle and loan numbers here OR Click the "Load Typical Values" button below for help with typical long haul truck numbers.

Annual Fuel Use  (Gallons)

Cost of Fuel \$

Annual Idling  (Hours)

Loan Period  (Months)

Loan Interest Rate  %

Yearly Fuel Cost \$ 45834

Monthly Fuel Cost \$ 3820

#### STEP 2: SELECT TECHNOLOGIES OF YOUR TRUCK.

Check the technology box below to test various combinations of technologies for your truck. You can check as many items as you want.

Technology	Cost
<input type="checkbox"/> <a href="#">Bunk Heater (Heater)</a>	\$ <input type="text" value="1500"/>
<input type="checkbox"/> <a href="#">Auxiliary Power Unit (APU)</a>	\$ <input type="text" value="8500"/>
<input type="checkbox"/> <a href="#">Aluminum Wheel Sets for Single Wide Tires (Tires)</a>	\$ <input type="text" value="5600"/>
<input checked="" type="checkbox"/> <a href="#">Trailer Aerodynamics (Aero)</a>	\$ <input type="text" value="2400"/>
<input type="checkbox"/> <a href="#">Automatic Tire Inflation (ATI)</a>	\$ <input type="text" value="900"/>
<input type="checkbox"/> <a href="#">Oxidation Catalyst (DOC)</a>	\$ <input type="text" value="1200"/>

Illustrative

"Savings Without Loan" button sets the loan period and interest rate to zero, to show you the results of buying this technology outright.

# SmartWay Technology Program

- SmartWay-certified tractors and trailers
  - 10% to 20% more efficient relative to comparable truck without fuel-saving features.



- SmartWay-verified technologies
  - Idle reduction, aerodynamic equipment, low rolling resistance tires.
  - Complements existing EPA and California programs to verify pollution control retrofit technologies for diesel vehicles (e.g., diesel oxidation catalysts and particulate filters).

# SmartWay Finance Program

- Aims to accelerate the deployment of energy-efficient and emission-control technologies by helping truck owners overcome financial obstacles.
  - Strong focus on smaller trucking fleets who lack access to capital.
- SmartWay Finance grants
  - Low cost loan and lease programs funded through congressional appropriations.
  - Focus on improving air quality while providing GHG co-benefits.
  - Loan program funds can be “recycled” multiple times – increasing public benefits.
  - Awarded nearly \$30M to date; expect to award additional \$12M this year.
- SmartWay on-line Finance Center [www.smartwayfinancecenter.com](http://www.smartwayfinancecenter.com)
  - Web portal where private lenders compete to provide capital to trucking fleets for fuel-efficient technologies.



# SmartWayFinanceCenter.com

SMARTWAY FINANCE CENTER

Call 1-877-767-8875 | [Log-In](#) |



## Available Technology:

[Idle Reduction](#)

[Aerodynamics](#)

[Wheels / Tires](#)

[SmartWay Certified Tractors](#)

[SmartWay Certified Trailers](#)

## Navigate to:

[SmartWay Clean Diesel Finance Program](#) **NEW**

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## Get a fast loan quote Now – truck , trailer, & equipment loans and leases

**Start Your Loan Application Now:**

①	Loan Type	<input type="text" value="SELECT"/>
②	Amount \$	<input type="text" value="0"/>
③	Location	<input type="text" value="Select Location"/>



This World Wide Web site is provided as a public service by the U.S. Environmental Protection Agency (EPA), SmartWay Transport Partnership. The purpose of this site is to efficiently and conveniently disseminate information on financing that is available for purchasing cleaner trucks and trailers, and emissions reducing and fuel saving technologies (such as auxiliary power units). All loan information contained in this site represents private company loans. These are not Federal government loans. If you obtain a loan from any of the financial entities here you are subject to their contractual terms and conditions. The EPA does not endorse the products or

# Looking Toward the Future

- Shippers are driving demand for sustainable freight operations.
  - Growing demand for carbon disclosure & efficiency gains from freight providers
  - Transportation significant to overall global emissions footprint.
- Globalization introduces new challenges and opportunities.
  - Multinational corporations linking manufacturing and logistics operations across the world.
  - Strong business case for more sustainable supply chains.
- SmartWay Partners see SmartWay as a key part of their global supply chain solution.
  - SmartWay developing new carbon accounting and tracking tools that will cover more freight modes; provide enhanced carbon assessment, tracking and benchmarking capability; and improve data functionality and management.

# Growing International Interest in SmartWay & Sustainable Goods Movement

- Many countries, NGOs and trade groups are working to develop freight sustainability initiatives globally.
  - SmartWay seen as a model public/private, market-based partnership for other countries to emulate.
- SmartWay International Workshop in December 2008 (12 countries attended)
  - Key themes:
    - Developing an international exchange network and SmartWay-like programs around the world.
    - Harmonizing supply chain accounting methods related to goods movement.
- Multiple countries have implemented freight sustainability programs modeled after SmartWay and/or with EPA guidance.
  - Canada, Mexico, France, Australia
- SmartWay tools/methods used in EU pilot to demonstrate feasibility of SmartWay platform for Europe.
- Commission for Environmental Cooperation working to green the North America freight supply chain with SmartWay.
- World Bank using SmartWay as template for Green Freight Partnership in Guangdong province, China.
  - SmartWay staff assisted with technology transfer in China.

# For More Information



[www.epa.gov/smartway](http://www.epa.gov/smartway)

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