

What We Can Do Now To Address Climate Change



WEST COAST COLLABORATIVE

A public-private partnership to reduce diesel emissions

2008 Annual West Coast Collaborative Partnership Meeting



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What We Can Do Now To Address Climate Change

Climate Change = Business Climate Change!

- 🌱 The Green Movement is Creating Market Pressures that are Driving Policy, Process and Procedural Changes in Large and Small Companies Throughout the World and Across North America**
- 🌱 The Business Case for Green Initiatives Lies Largely in the Ability to Translate them into Making Economic Sense**

Perplexity is the Beginning of Knowledge

Kahlil Gibran

-  **There are Really no Universally Accepted Tools or Best Practices that are Focused on an Enterprise as Broad and Diverse as a Global Supply Chain.**
-  **Fortunately, this is Starting to Change...**

SmartWay Transport Partnership Components

Partnerships – Nearly 1200 Partners To-Date

- Carriers, Shippers, Logistics, Affiliates, Rail
- Includes Most of the Top Trucking Companies

Tools and models - Enable Companies to:

- Measure Multimodal Transportation Footprint
- Project Emission Reduction Impacts of Technology, Strategy and Modes

Technology Demonstration - Advance New Technologies & Fuels

Product Certification – SmartWay Truck and SmartWay Vehicles

Financial Incentives – Works to Develop Innovative Financing Options to Purchase SmartWay Certified Products and Technologies

What We Can Do Now To Address Climate Change

U.S. EPA SmartWay

Freight Logistics Environmental and Energy Tracking Performance Model (FLEET Model)

Microsoft Excel

File Edit View Insert Format Tools Data Window Help Adobe PDF

Type a question for help

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fleet_model_version1d.xls [Read-Only]

	A	B	C	D	E	F	G	H	I	J	K	L
1	Carrier Information	Current Fleet Evaluation	Current Fleet Summary	Action Plan Evaluation	Action Plan Summary	Annual Update Evaluation	Annual Update Summary	Print	Zip File for Mailing			
2	Fleet Efficiency Evaluation										0	gallons
7	Show Video Tutorial		Straight Trucks							Print This Table		
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			
11	Short Haul	Diesel			0				0			
12		Gasoline			0				0			
13		Alternative Fuel	0	0	0	0	0	0	0	0		
14	Long Haul	Diesel			0				0			
15		Gasoline			0				0			
16		Alternative Fuel	0	0	0	0	0	0	0	0		
17			Combination Trucks									
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			
21	Short Haul	Diesel			0				0			
22		Gasoline			0				0			
23		Alternative Fuel	0	0	0	0	0	0	0	0		
24	Long Haul	Diesel			0				0			
25		Gasoline			0				0			
26		Alternative Fuel	0	0	0	0	0	0	0	0		
27	Totals	Diesel	0		0				0.00			
28		Gasoline	0		0				0.00			
29		Alternative Fuel	0		0				0.00			
30	All vehicles		0		0				0.00			

Ready Circular NUM

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U.S. EPA SmartWay

Certified Products and Technologies

The diagram illustrates a truck with various SmartWay certified technologies. On the tractor side, technologies include: Tractor Mounted Gap Reducers, Idle Reduction Equipment, Integrated Cab Roof Fairing, Aero Mirror, Aero Profile Tractor, 2007 MY Engine, Aero Bumper, Fuel Tank Side Fairings, and Low Rolling Resistance Tires. On the trailer side, technologies include: Trailer Mounted Gap Reducers, Trailer Side Fairings, Trailer Rear Fairings or Boat-tail, and Low Rolling Resistance Tires. A blue arrow labeled 'Or.' points from the Trailer Side Fairings to the Trailer Rear Fairings or Boat-tail, indicating an alternative configuration.

Tractor Strategies
~12% Reduction

Trailer Strategies
~11% Reduction

US EPA Certified SmartWay[®] 2007 Tractor

US EPA Certified SmartWay[®] 2007 Trailer

US EPA Certified SmartWaySM Transport Partner
Getting There With Cleaner Air

US EPA Certified SmartWaySM Transport Affiliate
Getting there With Cleaner Air

US EPA Certified SmartWay[®]

Check Out EPA's Green Vehicle Guide
www.epa.gov/greenvehicles

US EPA Certified SmartWaySM Elite

What We Can Do Now To Address Climate Change

Carbon Offsets

For Every Ton of CO₂ Produced, Another Ton is Taken Away or Prevented

TRANSNEUTRAL
ECO-RESPONSIBLE TRANSPORT LOGISTICS



- Offsets Each Shipment's GHG Emissions
- Reduces Future GHG Emissions
- Reduces Foreign Energy Source Dependence
- Reduces Atmospheric CO₂ Levels
- Supports Clean & Renewable Energy Production
- Supports New Energy Sources/Technology R&D
- Feeds 'Green' Electricity into the Power Grid
- Adds New Trees Through Reforestation

What We Can Do Now To Address Climate Change

Over 35 BILLION Gallons of Diesel Per Year

= Current Combined U.S. Truck and Rail Freight Consumption

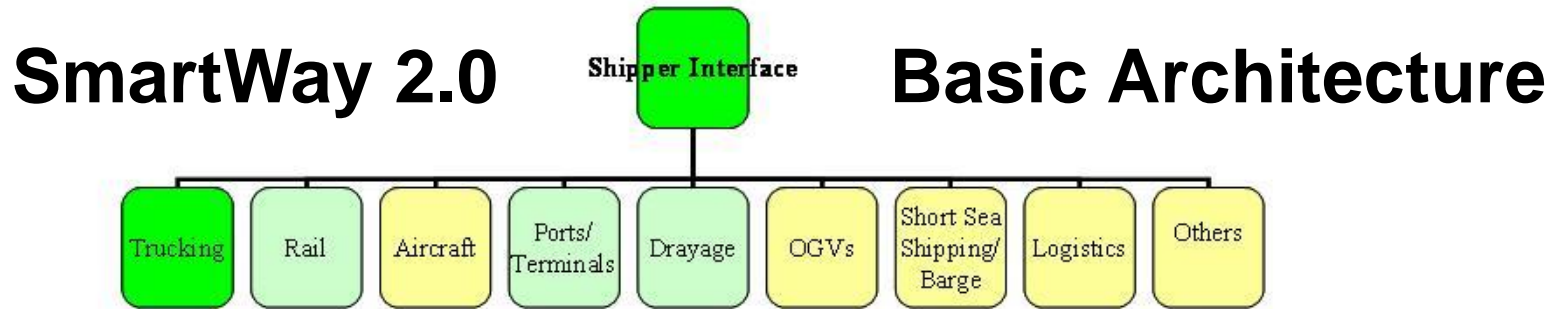
= 350 Million Metric Tons of CO₂ Emissions Annually

= Emissions of Approximately 70 Million Cars

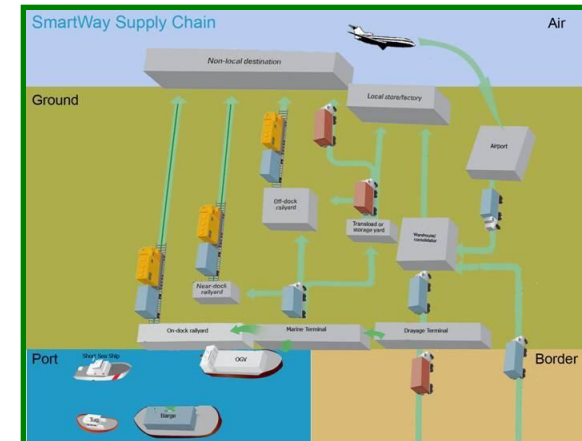
Facts are Facts, but be Sure to Compare Apples to Apples when Measuring and Comparing Shipment-Specific Carbon Footprints Across Transportation Modes – There's a Devil in the Measuring Details!



What We Can Do Now To Address Climate Change



- Modular Construction:
- Development will use the Charter Partner approach utilizing industry feedback
- Shipper component
 - Will draw its data from the carrier modules
 - Interface will give shippers data to influence their freight decisions and pressure carriers to join and/or improve
- Carrier Component
 - Based on a streamlined current Carrier FLEET model
 - We develop a template and then development partners create the modules
 - We guide and review the work
- **Adaptable to be included in commercial software packages**



Working with Your 3PL to Green Your Supply Chain



Working to Improve the Environmental Impact of Our Customers' Freight & Logistics Activities

- Shipment Emission (Carbon Footprint) Metrics
- Shipment-Specific CO₂ Emission Offsetting
- EPA SmartWay Member & Active Participant
- Consolidations & Pool Distributions
- Merge-in-Transit Shipments & Reverse Logistics
- Asset Recovery & End-of-Product-Lifecycle Disposition
- Clean Energy Project Logistics



What We Can Do Now To Address Climate Change

The Only Reasonable Way to Keep Score in Public Life is Whether People are Better Off when You Leave than when You Started

William Jefferson Clinton