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# Reducing Drayage Emissions in Port Areas

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U.S. EPA SmartWay Partnership Program

EPA, Region 2

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# Introduction

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- SmartWay Summary
- Drayage Background
- SmartWay Drayage Program
- SmartWay Drayage Calculator
- Financial Assistance
- Technical Assistance

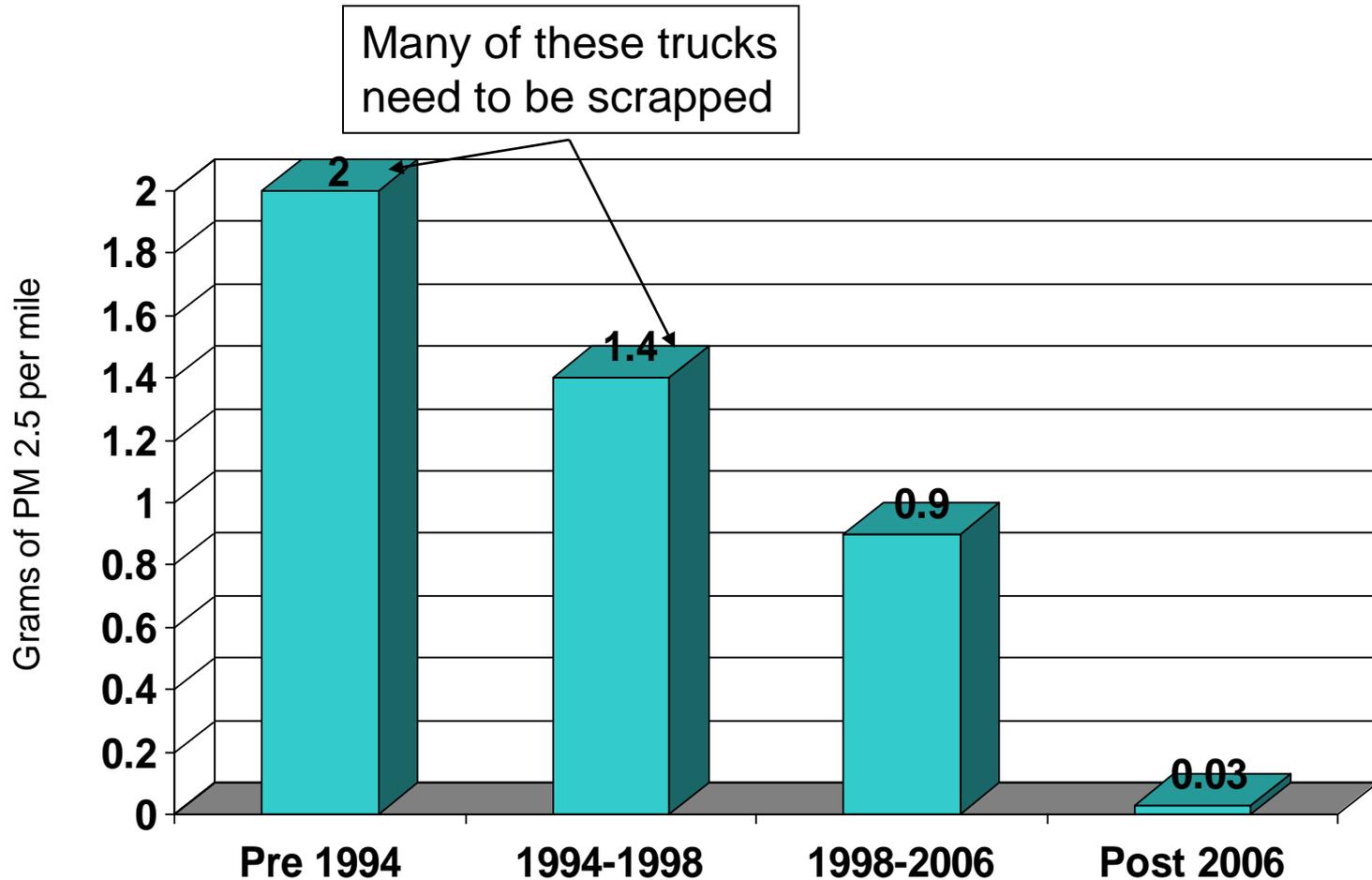
# Addressing the Supply Chain

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- EPA's SmartWay Transport Partnership achieves emission reductions and energy efficiency in goods movement across the supply chain
  - Voluntary public-private initiative open to companies of any size
  - Objective, consistent methods and tools allow carriers to improve performance and shippers to find greener carriers
  - Finance programs expand access to cleaner technologies
  - Test program identifies lower carbon technologies
  - Partner recognition for top-performers
- SmartWay's 3,000 partners save money by reducing fuel use and emissions which protects the environment, supports greener jobs, promotes energy security and strengthens US economy
  - Since 2004, reduced 16.5 MMT CO<sub>2</sub>, 235,000 tons NO<sub>x</sub>, 9,000 tons PM, and 50 million barrels oil (\$6.1 billion fuel costs)
- Program enhancements this year
  - Port drayage initiative(Spring)
  - Web site enhancements to improve partner support (Summer)
  - Transition to improved partner tracking tools (Fall)



# Why Dray Matters: PM 2.5 from HD Diesel Trucks (Grams PM 2.5/mile)





## Dray Trucks: Unique, Challenging

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- Very old trucks
- Low income owner-operators
- Low cost of entry keeps rates low
- Limited benefits from fuel-saving equipment
- PM, ozone and toxics are the major priority, not GHG
- Special concern for vulnerable communities



# Addressing Drayage Emissions

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- Goal is to create SmartWay criteria that balance:
  - Superior environmental performance
  - Financial consideration
  - Available emission reduction technologies
- Key considerations
  - Consistency with SmartWay's Truck Carrier Model
  - Minimal reporting and record keeping requirements for carriers/3PLs, shippers and SmartWay
  - Performance-oriented (not technology focused)

# SmartWay Drayage Announcement

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- Location: Port of Charleston
- Date: June 28, 2011
- Speakers
  - Jim Newsome, South Carolina State Ports Authority
  - Gwendolyn Keyes Fleming, Regional Administrator for EPA Region 4
  - Gina McCarthy, EPA Assistant Administrator
  - Rick Gabrielson, Coalition for Responsible Transportation/Target Corp
  - Marcia Aronoff, Environmental Defense Fund
  - Myra Reese, Bureau Chief, Bureau of Air Quality, South Carolina Department of Health & Environmental Control
  - Rahim Karriem, Lowcountry Alliance for Model Communities
- SmartWay Charter Shipper Partners
  - Best Buy, JC Penney, Target, Lowe's, Home Depot, Wal-Mart, HP and Nike
  - 22 drayage carriers also joined as charter partners

# SmartWay Drayage Program

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- Carriers participating in the SmartWay drayage program agree to:
  - Use the Drayage Calculator to measure and report to EPA your emissions performance on annual basis
  - Achieve a “Very Good” or “Outstanding” Environmental Performance within 3 years of joining SmartWay
    - This is equivalent to a 50% reduction in Particulate Matter emissions below the industry average
  - EPA will list SmartWay Port Drayage Partners and performance on its website
  
- SmartWay commits to support our drayage partners by:
  - Publicize the name of participating carriers through educational, promotional and other media materials
  - Help drayage truck partners achieve their goals by providing assessment tools and technical assistance
  - Encourage SmartWay shippers to commit to use greener drayage trucks at ports
  
- For complete details on the SmartWay Drayage Agreement see the SmartWay Drayage website
  
- EPA revised its SmartWay Partner Agreement to recognize Shippers that agree to move 75% of their port cargo with SmartWay Port Drayage Truck Carriers

# SmartWay Drayage Calculator

Drayage Fleet Score and Emission Reductions for Generic Port												
Company Name		ABC Trucking Company										
Year	Pre-1988	1988-1993	1994-2002	2003-2006	2007-2009	Post 2009	Total Trucks	CO2	PM	NOx	SmartWay SIF Score	Environmental Performance
								Short tons	Short tons	Short tons		
2011												
Baseline Emissions From Average Dray Truck Fleet							40	2,891	2.5	53.8		
Untreated	10	10	10	10			40	2,892	2.5	51.1		
DOC & CCVS							0	0	0.0	0.0		
Flow Through Filter							0	0	0.0	0.0		
Diesel Particulate Filter/LNG							0	0	0.0	0.0		
Total Trucks Equipped with:	APUs		SW Tires		LNG			0	0.0	0.0		
2008 Total Fleet Emissions								2,892	2.5	51.1		
Change in Emissions from Baseline								1.0	0.1	-2.7		
% Change in Emissions								0%	3%	-5%		
Avg. Miles Per Truck	38960		Fuel Consumed (gal)									
SmartWay FLEET Score and Environmental Performance for:							2011				0.75	Average

Source: [www.epa.gov/smartway/transport/documents/drayage/swdrayagecalculator.xls](http://www.epa.gov/smartway/transport/documents/drayage/swdrayagecalculator.xls)

# Financial Assistance for Drayage Carriers

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- SmartWay Financing (from DERA)
  - Houston Galveston Area Council--\$9 million
  - Cascade Sierra Solutions--\$12.1 million
  - Community Development Transportation Lending Services, Inc.--\$3.7 million
  - Owner-Operator Independent Drivers Association Foundation – \$1.1 million
  - *Mid-Atlantic Regional Air Management Association--\$3.9 million*
  - *Southern Alliance for Clean Energy--\$5 million*
- Additional DERA Grants (non-SmartWay)
  - \$7 million PANY/NJ
  - Clean Air Council, Philadelphia \$350K
  - Virginia Port Authority
  - Port of Baltimore
  - South Carolina State Ports Authority

### Grants and Loans to Support Clean Drayage Trucks

The following list provides contact information for various grant and loan programs available to drayage carriers that can be used to help purchase lower emission drayage trucks. Please contact each program for details on grant amounts, loan rates and eligibility criteria.

Program	Location	Contact	Email	Web Address
Cascade Sierra Solutions (CSS)	National	Angelique Dodaro 541-302-0900	<a href="mailto:angelique@cascadesierrasolutions.org">angelique@cascadesierrasolutions.org</a> <a href="mailto:info@cascadesierrasolutions.org">info@cascadesierrasolutions.org</a>	<a href="http://www.cascadesierrasolutions.org">www.cascadesierrasolutions.org</a>
Community Development Transportation Lending Services	National	Dale Marsico (202) 247-1922	<a href="mailto:marsico@ctaa.org">marsico@ctaa.org</a>	<a href="http://web1.ctaa.org/webmodules/webarticles/anmvie wer.asp?a=53">http://web1.ctaa.org/webmodules/webarticles/anmvie wer.asp?a=53</a>
Cascades Sierra Solutions <i>Great SmartWay Rebate Program</i>	ME, NH, VT, MA, RI, CT	Josh Capps 541-852-4316	<a href="mailto:jcapps@cascadesierrasolutions.org">jcapps@cascadesierrasolutions.org</a>	<a href="https://csswebform.org/WebForm/RebateIntro.aspx">https://csswebform.org/WebForm/RebateIntro.aspx</a>
Mid-Atlantic Dray Truck Replacement Program	VA, MD, DE, PA	Joanne Throwe 301-405-5036	<a href="mailto:JThrowe@umd.edu">JThrowe@umd.edu</a>	<a href="http://www.efc.umd.edu">www.efc.umd.edu</a>
Southern Alliance for Clean Energy	NC, SC, GA, FL	Anne Blair 404-373-5832	<a href="mailto:anne@cleanenergy.org">anne@cleanenergy.org</a>	<a href="http://www.cleanenergy.org/index.php?/Learn-About-Details.html?form_id=52&amp;item_id=110">www.cleanenergy.org/index.php?/Learn-About-Details.html?form_id=52&amp;item_id=110</a>
Port Authority of New York and New Jersey Truck Replacement Program	Port of NY/NJ	877-309-1680	<a href="mailto:info@replacemytruck.org">info@replacemytruck.org</a> <a href="mailto:info@cambiamicamion.org">info@cambiamicamion.org</a>	<a href="http://www.replacemytruck.org">www.replacemytruck.org</a> <a href="http://www.cambiamicamion.org">www.cambiamicamion.org</a>
Clean Air Council Drayage Trucks Project	Philadelphia and Wilmington	Nick Rogers 215.567.4004, x110	<a href="mailto:nrogers@cleanair.org">nrogers@cleanair.org</a>	<a href="http://www.cleanair.org">www.cleanair.org</a>
The Port of Virginia, Green Operator "GO" Program	Port of Virginia	Megan Hughes 301-405-4035	<a href="mailto:mhughes3@umd.edu">mhughes3@umd.edu</a>	<a href="http://www.portofvirginia.com/corporate/environment/go-program.aspx">www.portofvirginia.com/corporate/environment/go-program.aspx</a>
South Carolina State Ports Authority	South Carolina	Jeannie Adame (843) 577-8175	<a href="mailto:jadame@scspa.com">jadame@scspa.com</a>	<a href="http://www.pledgeforgrowth.com/PFG_Trucking_Rebate_Program.asp">www.pledgeforgrowth.com/PFG_Trucking_Rebate_Program.asp</a>
Florida Clean Diesel Rebate Program	Florida	Robert Wang 850-717-9036	<a href="mailto:Robert.wang@dep.state.fl.us">Robert.wang@dep.state.fl.us</a>	<a href="http://www.dep.state.fl.us/Air/emission/msc/diesel_emission.htm">http://www.dep.state.fl.us/Air/emission/msc/diesel_emission.htm</a>
North Carolina Diesel Emission Reduction Grant Program	North Carolina	Anne Galamb (919) 715-6296	<a href="mailto:anne.galamb@ncdenr.gov">anne.galamb@ncdenr.gov</a>	<a href="http://daq.state.nc.us/motor/DERG/">http://daq.state.nc.us/motor/DERG/</a> <a href="http://www.ncair.org/motor/Rebates">www.ncair.org/motor/Rebates</a>
Houston-Galveston Area Council Drayage Loan Program	Houston and Galveston	(832) 681-2588	<a href="mailto:drayageloan@h-gac.com">drayageloan@h-gac.com</a>	<a href="http://www.hgacdrayageloan.com">www.hgacdrayageloan.com</a>
Scrappage and Retrofits for Air in Puget Sound (ScRAPs) Program	Port of Seattle	866-345-3390 x238 or x240		<a href="http://www.CascadeSierraSolutions.org">www.CascadeSierraSolutions.org</a>
San Pedro Bay Ports Clean Air Action Plan	Ports of Long Beach and Los Angeles			<a href="http://www.cleanairactionplan.org/grants/default.asp">www.cleanairactionplan.org/grants/default.asp</a>
Meadowbrook Leasing	Charleston, Savannah	Jason Ugolini 866-826-2258	<a href="mailto:Jason.ugolini@meadowbrookinc.com">Jason.ugolini@meadowbrookinc.com</a>	

If you have updates for this table, please contact Ken Adler at: [adler.ken@epa.gov](mailto:adler.ken@epa.gov)

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# SmartWay Drayage Resources

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- Web Page:  
[www.epa.gov/smartway/partnership/drayage.htm](http://www.epa.gov/smartway/partnership/drayage.htm)
  - June 28, 2011 Announcement Press Release
  - SmartWay Drayage Fact Sheet (PDF)
  - SmartWay Drayage Shipper Addendum (PDF)
  - SmartWay Drayage Partnership Agreement and Calculator Version 3.1 (XLS)
  - Technical fact sheets for lowering port emissions
- SmartWay helpline
  - 1-734-214-4767
  - smartway\_transport@epa.gov

# Contact Information

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202.343.9402

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