



A **stronger** economy.

A **healthier** environment.

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



**Abby Swaine**  
**Regional Transportation Advisory Council**  
**November 10, 2010**

# The Results To Date

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- Over **2,800** Partners
- Over 225 shipper partners
- To date, partners have saved **1.5 billion gallons & \$3.6 billion in fuel**
- Are on track for 2010 and beyond to save:
  - **622 million gallons** of diesel fuel
  - Almost **7 million tons** of CO2
  - Over **\$2 billion** in fuel and maintenance costs ...per year.
- 77 partners HQed in NE; greater % shippers

# Rail Carrier Partners

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BNSF Railway Company

CSX Transportation (Charter Partner)

Canadian National Railway Company

Canadian Pacific Railway

Florida East Coast Railway

Genesee & Wyoming Inc

Kansas City Railway Company

LHP Transportation Services, Inc. (Rail Division)

Norfolk Southern Corporation

Pacific Harbor Line, Inc.

Richmond Pacific Railroad

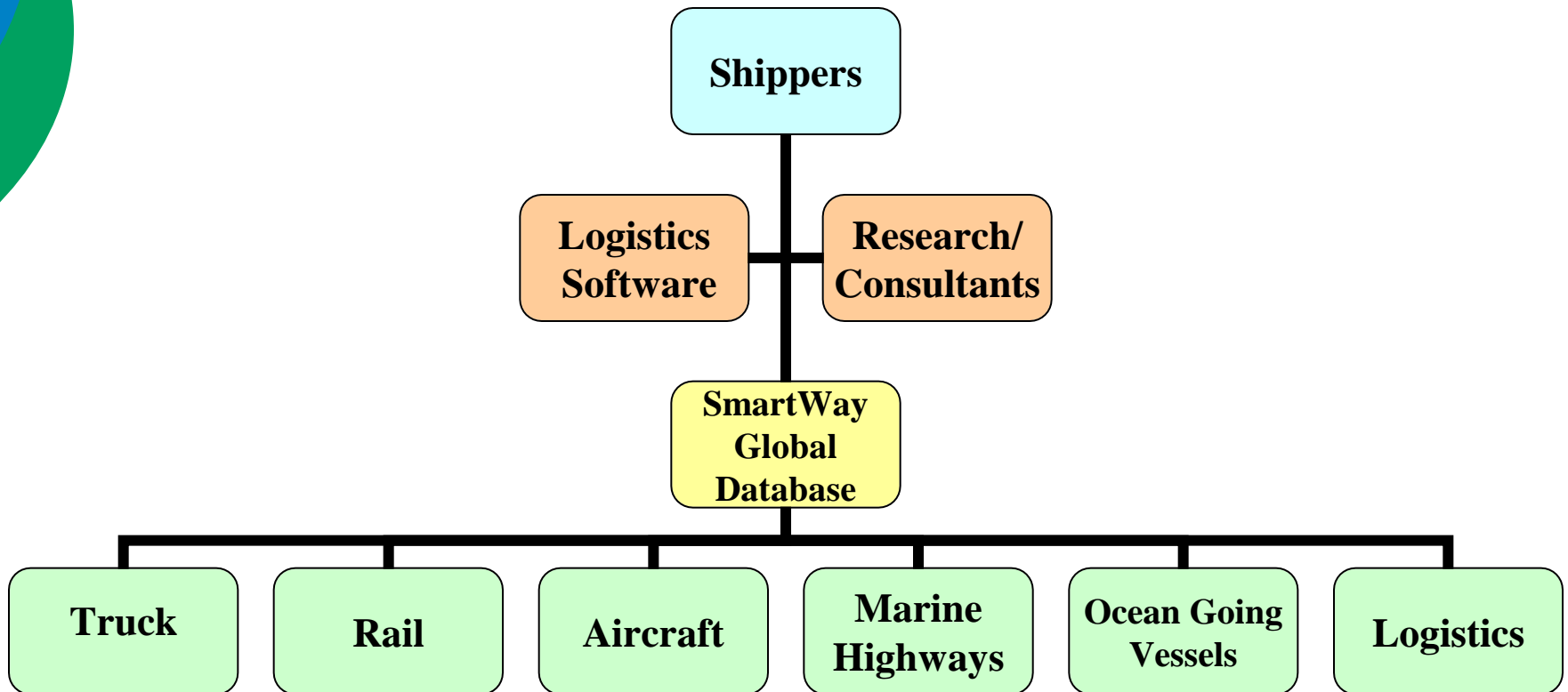
Tacoma Rail

The New York, Susquehanna, and Western Railway Corporation

Union Pacific Railroad

# SmartWay Next Generation Architecture

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# Partner Interest in Intermodal ↑

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- SmartWay shippers increasing rail share. Example: **Diageo** increased intermodal over past 3 years; now have 85% of their business.
- SmartWay intermodal carriers recruiting shippers. Example: **Alliance** brought **Gorton's** into SmartWay.
- Expressed interest in rail, barge, and rail connections to ports.

# EPA NE Clean Diesel 2010 Grants

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- \$850K-- **NESCAUM Locomotive Idle Reduction Project**: install APUs on 29 regional freight locomotives operating in CT, MA, NH, & VT. Save ~200K gal fuel/yr. RRs:
  - Claremont-Concord (3 switchers near homes)
  - CT Southern & NE Central (11 line haul & switchers)
  - Cape Cod Central & Mass Coastal (6 line haul)
  - MassCentral (3 switchers & line haul)
  - NH Northcoast (2 line haul that linger downtown)
  - VT Railway (4 switchers)

Contact: Eric Skelton, 617-259-2028, [eskelton@nescaum.org](mailto:eskelton@nescaum.org)

# EPA NE Clean Diesel 2010 Grants

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- \$1M-- **New Bedford HDC Shore-side Power:** electrify two commercial fishing piers and provide 100 rebates to retrofit vessels with switches and cables to allow them to draw shore power.
- \$800K-- **MBTA Head-End Power Unit Repower:** repower 8 commuter loco HEP engines. (14 repowers paid for in '09.)

BTW-- EPA/MBTA consent decree, lodged Oct '10:

- Shore power at all layover locations
- ULSD prior to summer 2012 deadline
- Match for HEP repowers
- \$225K fine

# EPA State Clean Diesel 2010 Grants

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- **MA DEP:** \$588, 235 for **Massachusetts Markets Diesel Emissions Reduction Program** to address truck traffic, TRUs and idling trucks at market facilities. DEP will fund vehicle retrofits, APUs, and diesel-for-electric TRU replacements.
  - Contact: Christine Kirby, 617-292-5631, [Christine.Kirby@state.ma.us](mailto:Christine.Kirby@state.ma.us)
- **ME DEP:** \$649,882 to replace engines on marine vessels; install auxiliary & integrated cab heaters on DOT snow plows; placing an auxiliary battery system on a traffic control truck to power lights etc while engine is off; fund 50% an APU for St Lawrence & Atlantic Railway locomotive; run a rebate & loan program for APUs for heavy trucks.



# EPA State Clean Diesel 2010 Grants

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- **CT DEP:** 2+ TSE facilities; replace trucks serving trash plants or distribution/delivery centers; port truck/CHE/marine projects.
- **RI DES:** Continue retrofitting or replacing heavy maintenance and construction trucks & equipment controlled by RIDOT, other state agencies & municipalities.
- **VT DEC:** more APUs for Vermont Railways, or early replacement / repower of state-owned highway maintenance vehicles.
- **NH DES:** nothing relevant to freight/rail/DOTs this time.

# EPA NE 2009 ARRA/DERA Grants

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- **Maine Turnpike Authority** West Gardiner Plaza TSE -- \$1.2M– FIRST DONE– AireDock units.
- **Chelsea Collaborative** New England Produce Center 79 all-electric TRUs & shore power-- \$1.56M– TRUs being installed.
- **Cascade Sierra Solutions** Great SmartWay Rebate Program for truck FE upgrade equip- - \$1.15M– program extension & updates.

# GREAT SMARTWAY



## REBATE PROGRAM

EPA New England has awarded over \$1 million in Recovery Act / Clean Diesel funding to Cascade Sierra Solutions (CSS) to provide rebates for installing SmartWay verified technology upgrades on diesel trucks running in the six New England states (Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, Connecticut). Rebate amounts from \$100 to \$1,000 per equipment item and multiple items per truck allowed.

### WHO CAN APPLY:

← Owners of heavy-duty diesel trucks physically based and operating in New England State



# 2011 Clean Diesel Grants

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- RFP open til Jan 13. ~\$2M for EPA NE.
- [www.epa.gov/cleandiesel/prgnational.htm](http://www.epa.gov/cleandiesel/prgnational.htm) for RFP, FAQs, webinar recordings/slides, sample apps.
- MA DEP contacts:
  - Christine Kirby 617-292-5631  
[christine.kirby@state.ma.us](mailto:christine.kirby@state.ma.us)
  - Richard Blanchet 617-654-6585  
[richard.blanchet@state.ma.us](mailto:richard.blanchet@state.ma.us)
- NESCAUM contact:
  - Eric Skelton 617-259-2028  
[eskelton@nescalum.org](mailto:eskelton@nescalum.org)

# EPA-Interagency Collaboration

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- DOT GHG & FE Standards for Med- & HD Vehicles
- DOE Super Truck project
- HUD/DOT Livability/Sustainability Partnership
- MARAD Marine Highway Initiative
- FHWA/Customs Can/Mex Border Working Groups
- Commerce/FHWA “Supply Chain Competitiveness Initiative”
- Ozone Transport Commission’s interest in Port Drayage & Freight



# Think Globally, Act Locally: Plan for Freight

- Preserve existing infrastructure
- Include freight in SG, TOD; use brownfields
- Consider freight villages
- Work with short line RRs
- Add new rail spurs and sidings
- Allow adequate parking/staging areas
- Install gate control
- Use electrified truck parking
- Provide shore power at loading docks
- Include comfort stations for drivers





**PLEASE CONTACT:**

**Abby Swaine, New England Coordinator**

**617-918-1841 or [swaine.abby@epa.gov](mailto:swaine.abby@epa.gov)**

**[www.epa.gov/smartway/transport/where-you-work/region1.htm](http://www.epa.gov/smartway/transport/where-you-work/region1.htm)**

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

# APPENDIX

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Go to [Where You Work](#) page.

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**Region 1 Partner List**

Partners	Location/City	State	Type of Partner
3PL Solutions, CCC	Wellesley	MA	Logistics
A N Deringer	St. Albans	VT	Truck Carrier
Agri Mark	Montpelier	VT	Shipper
Arpin International Group, Inc.	East Greenwich	RI	Logistics
Atlantic Distribution	Exeter	NH	Truck Carrier
B L Kitchen Transportation	Lakeville	MA	Truck Carrier
Barrett Distribution	Franklin	MA	Truck Carrier
Big Y Foods, Inc.	Springfield	MA	Shipper
Boyle Transportation	Billerica	MA	Truck Carrier
Brady Corporation	Branford	CT	Shipper
Braun's Express, Inc.	Hopedale	MA	Truck Carrier
Brookline Transportation Company, Inc.	Norwood	MA	Truck Carrier
BSP Trans., Inc.	Londonderry	NH	Truck Carrier
BTX Air Express	Shelton	CT	Logistics
CabAire, LLC	Enfield	CT	Affiliate
Catalano Bros., Inc.	Devens	MA	Truck Carrier
Covidien Ltd.	Mansfield	MA	Shipper
CTW Transport, Inc.	Peabody	MA	Truck Carrier
Diageo	Norwalk	CT	Shipper
Diversified Automotive	Charlestown	MA	Truck Carrier
Donada, Inc.	Woonsocket	RI	Truck Carrier

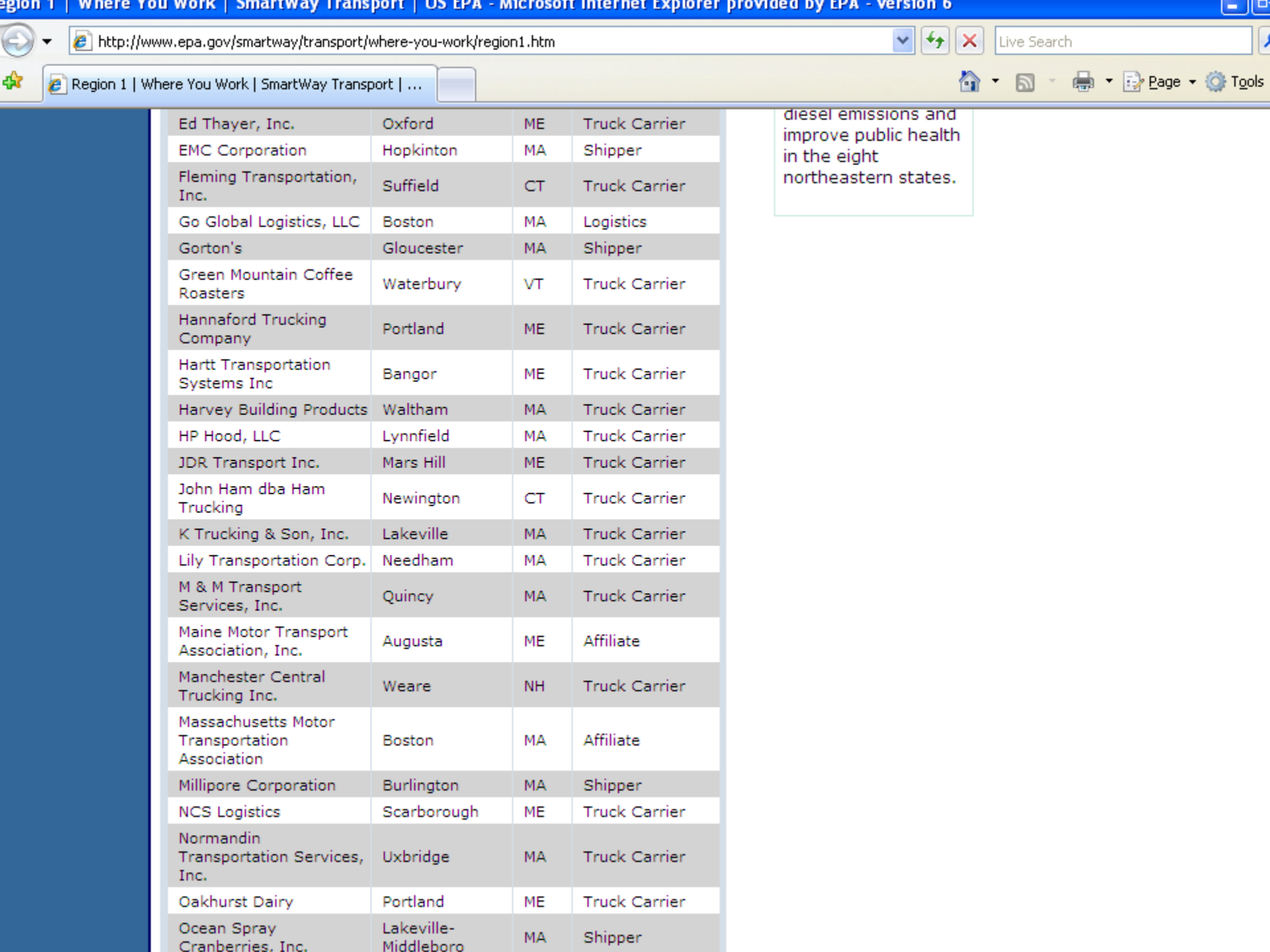


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 (swaine.abby@epa.gov)

**National Idle Free Corridors - Region 1**  
 Truck Stop Idle Reduction Project  
 locations along [I-85](#) & [I-95](#) and [I-90](#).

**EPA Clean Diesel Collaborative-Region 1**  
 The [Northeast Diesel Collaborative \(NEDC\)](#)

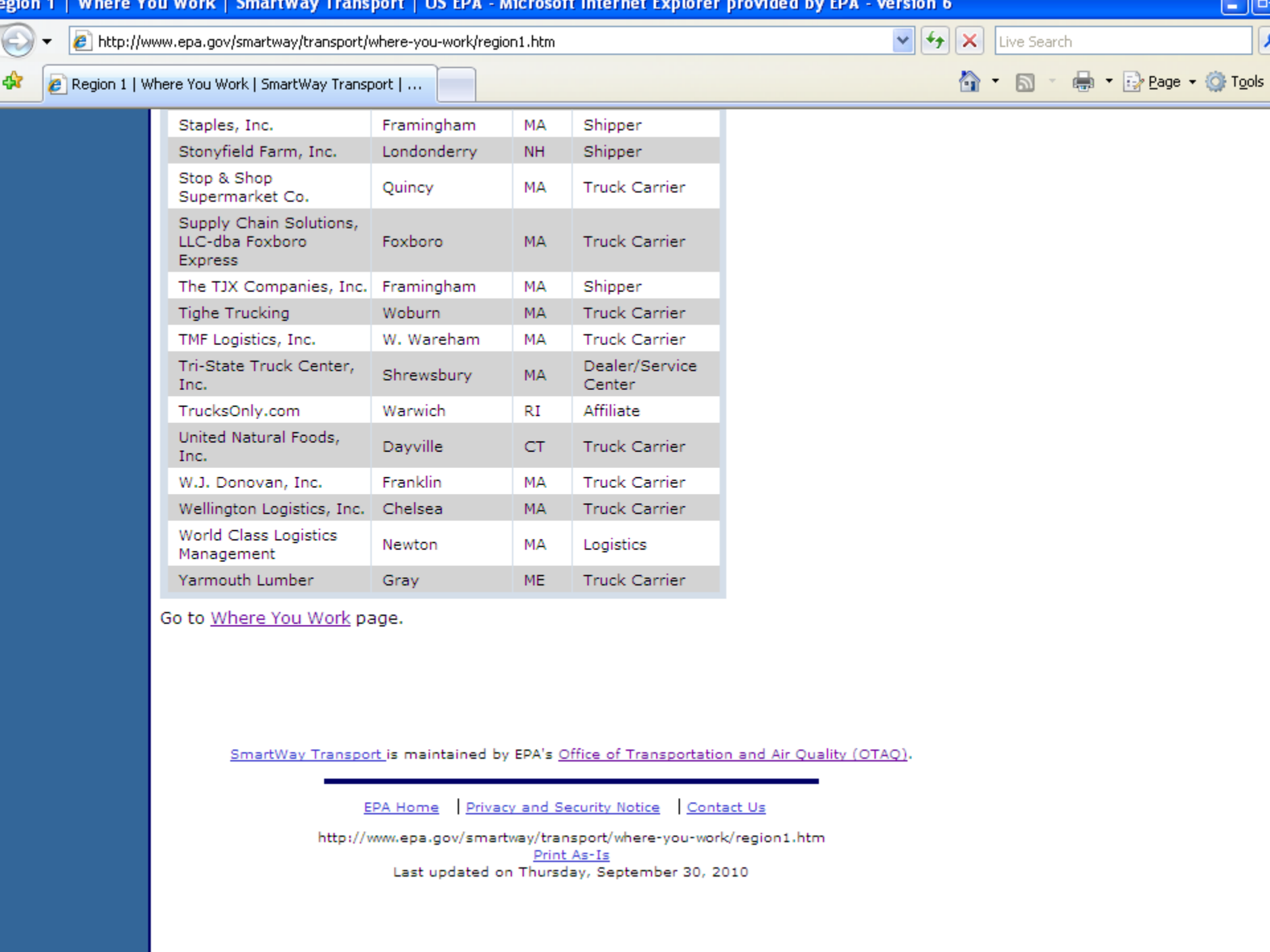
[EXIT Disclaimer](#)  
 combines the expertise of public and private partners in a coordinated regional initiative to significantly reduce



Ed Thayer, Inc.	Oxford	ME	Truck Carrier
EMC Corporation	Hopkinton	MA	Shipper
Fleming Transportation, Inc.	Suffield	CT	Truck Carrier
Go Global Logistics, LLC	Boston	MA	Logistics
Gorton's	Gloucester	MA	Shipper
Green Mountain Coffee Roasters	Waterbury	VT	Truck Carrier
Hannaford Trucking Company	Portland	ME	Truck Carrier
Hartt Transportation Systems Inc	Bangor	ME	Truck Carrier
Harvey Building Products	Waltham	MA	Truck Carrier
HP Hood, LLC	Lynnfield	MA	Truck Carrier
JDR Transport Inc.	Mars Hill	ME	Truck Carrier
John Ham dba Ham Trucking	Newington	CT	Truck Carrier
K Trucking & Son, Inc.	Lakeville	MA	Truck Carrier
Lily Transportation Corp.	Needham	MA	Truck Carrier
M & M Transport Services, Inc.	Quincy	MA	Truck Carrier
Maine Motor Transport Association, Inc.	Augusta	ME	Affiliate
Manchester Central Trucking Inc.	Weare	NH	Truck Carrier
Massachusetts Motor Transportation Association	Boston	MA	Affiliate
Millipore Corporation	Burlington	MA	Shipper
NCS Logistics	Scarborough	ME	Truck Carrier
Normandin Transportation Services, Inc.	Uxbridge	MA	Truck Carrier
Oakhurst Dairy	Portland	ME	Truck Carrier
Ocean Spray Cranberries, Inc.	Lakeville-Middleboro	MA	Shipper

diesel emissions and improve public health in the eight northeastern states.

Odyssey Logistics & Technology Corporation	Danbury	CT	Shipper
OSRAM Sylvania	Danvers	MA	Shipper
PAF Transportation, Inc. aka Portland Air Freight	Scarborough	ME	Truck Carrier
Poland Spring Bottling	Poland Springs	ME	Truck Carrier
Pottle's Transportation, Inc.	Bangor	ME	Truck Carrier
Premier Logistics Services, Inc.	Hewington	CT	Logistics
Refrigerated Food Express, Inc.	Avon	MA	Non Asset Based Carrier
Regency Transportation, Inc.	Franklin	MA	Truck Carrier
RFX, Inc.	Avon	MA	Logistics
Richard L. Hodges, Inc.	Unity	ME	Truck Carrier
Roman Transport, Inc.	Melrose	MA	Truck Carrier
S&J Transportation Services, Inc.	Lee	NH	Truck Carrier
Safe Handling, Inc.	Auburn	ME	Truck Carrier
Sappi Fine Paper North America	Boston	MA	Shipper
Sargent Trucking, Inc.	Mars Hill	ME	Truck Carrier
Simply Green, a biofuels company, LLC.	Stratham	NH	Truck Carrier
Sitterly Movers	Springfield	MA	Truck Carrier
Stanley Black & Decker	New Britain	CT	Shipper
Staples, Inc.	Framingham	MA	Shipper
Stonyfield Farm, Inc.	Londonderry	NH	Shipper
Stop & Shop Supermarket Co.	Quincy	MA	Truck Carrier
Supply Chain Solutions, LLC-dba Foxboro Express	Foxboro	MA	Truck Carrier
The TJX Companies, Inc.	Framingham	MA	Shipper



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The TJX Companies, Inc.	Framingham	MA	Shipper
Tighe Trucking	Woburn	MA	Truck Carrier
TMF Logistics, Inc.	W. Wareham	MA	Truck Carrier
Tri-State Truck Center, Inc.	Shrewsbury	MA	Dealer/Service Center
TrucksOnly.com	Warwick	RI	Affiliate
United Natural Foods, Inc.	Dayville	CT	Truck Carrier
W.J. Donovan, Inc.	Franklin	MA	Truck Carrier
Wellington Logistics, Inc.	Chelsea	MA	Truck Carrier
World Class Logistics Management	Newton	MA	Logistics
Yarmouth Lumber	Gray	ME	Truck Carrier

Go to [Where You Work](#) page.

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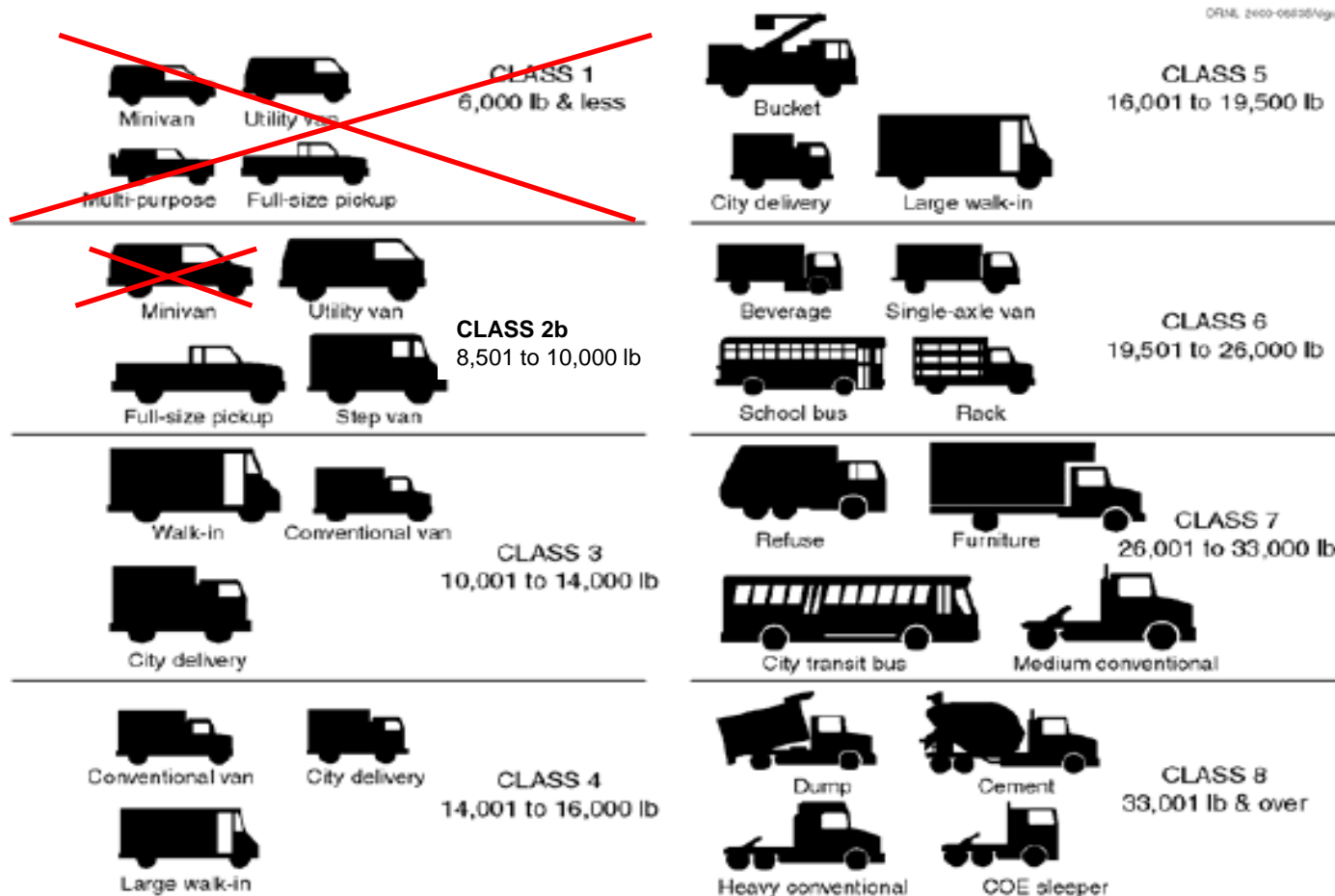
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<http://www.epa.gov/smartway/transport/where-you-work/region1.htm>

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Last updated on Thursday, September 30, 2010

# Vehicles covered under MDHD GHG and FE Standards



# What Technologies Do We Expect Manufacturers Would Use to Comply?

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- **Available today** & likely to be used more broadly:
  - Aerodynamic packages:
    - Classic, Conventional, SmartWay, Advanced SmartWay, and Advanced SmartWay II
  - Reduced tire rolling resistance, for “steer” tires and “drive” tires.
  - Weight reduction
  - Reduction in extended idle operation (for tractors with sleeper cabs)
  - Vehicle speed limiter (not assumed for standard-setting)
- Proposed CO<sub>2</sub> and fuel consumption standards would achieve from 7% to 20% reduction from 2010 baselines
  - Sleeper cabs would achieve the greatest reductions by combining vehicle/engine improvements with reduced idling

# Program Cost, Emission Reductions and Fuel Savings

Over the lifetime of the vehicles produced during the first 5 years of the program (2014-2018) we estimate:

- 250 MMT reduction in CO2 emissions
  - 500 million barrel reduction in oil consumption
  - \$41 billion net benefits
  - \$35 billion in net savings for truckers
  - Significant reductions in upstream criteria emissions as well
- Estimated cost increase and fuel savings for 2018 vehicles

Category	Cost per Truck	Lifetime Fuel Savings (3% NPV)
Combination Tractors (Semi's)	\$5,900	\$79,700
HD Pick-ups/Vans	\$1,400	\$4,000
Vocational Trucks	\$ 360	\$4,400

