

# OTC Stakeholder Meeting

April 12<sup>th</sup>, 2016  
Washington, DC

## Mobile Source Committee Update



# Committee Charge

- Goal: To identify potential strategies for consideration at the 2016 Fall Meeting
- Strategies Include:
  - Sectors of High Emission Reduction Potential
    - Heavy Duty Diesel Trucks
    - Passenger Vehicles
    - Movement of Goods
    - Construction Equipment
    - Pleasure craft
  - Ports
  - SmartWay
  - Diesel I/M & SIP Credit
  - VMT Strategies
  - Additional Transportation Strategies

# Overview

## Review of Mobile Source Committee Charge

## Status of Committee's Deliverables for the 2016 Annual Meeting

- Report on Aftermarket Catalyst program efforts
- Idling Best Practices Document
- Approach to quantify SmartWay benefits
- Report on status of efforts to reduce emissions from the Heavy-duty sector
- Summary document on discussions with/need for EPA assistance for mobile source NO<sub>x</sub> reductions

# Anti-Idling

OTC compiled an overview of idling reduction efforts in the region

Looked at:

- Education
- Enforcement
- Technologies
- Funding

Comments on Anti-Idling Overview due 5/12

Idling Allowable Time Limit in Minutes by State (excluding exemptions)

	CT	DE	DC	ME	MD	MA	NH	NJ	NY	PA	RI	VT	VA
Diesel Trucks	3	3	3	5	5	5	5	3	5	5	5	5	3
Nonroad Diesel	3		3					3			5		
Other	MA and RI also have Rail idling limits												

# Anti-Idling: Education

## Signs



## “Tickets”

**THE CONNECTICUT DEPARTMENT OF ENERGY & ENVIRONMENTAL PROTECTION**

REGISTRATION	TICKET NO. <b>A321012</b>
VIOLATION DATE	TIME
LOCATION OF VIOLATION	
EMPLOYEE	INSPECTOR NO.
VEHICLE MAKE	

**NOTICE OF IDLING VIOLATION**

Pursuant to the responsibilities of my office as a representative of the Department of Energy and Environmental Protection (DEEP), I have taken the opportunity to provide you with this informational pamphlet about the environmentally hazardous, unhealthy and surpenermy costly effects of idling.

**3-MINUTE LIMIT  
IT'S THE LAW**

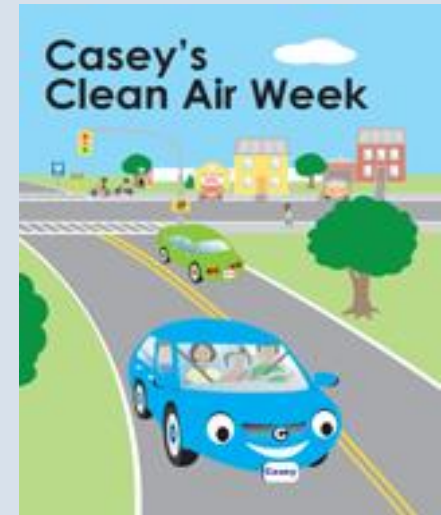
This pamphlet is not a summons or notice of violation to which you must respond. It's just a reminder that unnecessary idling is illegal everywhere in our state. Why? Because exhaust fumes created by idling pollute the air and create a public health hazard, and because running your motor vehicle while stationary is inefficient and a costly waste of fuel. This law applies to all cars, trucks, taxis, buses and motorized construction equipment.

**IDLING REDUCTION IS OUR GOAL IN CT**

This is just a friendly reminder to do your part to reduce engine idling, conserve our natural resources and help us all breathe a little easier! Thank you.

*DEEP Commissioner*  
DEEP Commissioner

## Children's Books



## Posters



## Pledge

**No Idling Pledge  
for School Districts**


We pledge to protect the health and well-being of the students and staff of our school district. We recognize that buses are the safest mode of student transportation, yet excessive school-bus emissions of soot from idling are a threat to children's health.

To protect students and staff from harmful soot, we voluntarily pledge:

- To turn off engines while waiting to load and to unload students
- To use newest buses for the longest routes
- To maintain buses to eliminate any visible exhaust
- To complete school-bus driver training on eliminating idling

School or School District: \_\_\_\_\_  
 Town: \_\_\_\_\_  
 School Administrator's Signature : \_\_\_\_\_  
 School Administrator's Name (Printed): \_\_\_\_\_  
 School Administrator's Title: \_\_\_\_\_  
 Signed on this date: \_\_\_\_\_

State of New Jersey  
Department of Environmental Protection



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# Anti-Idling: Enforcement

Complaint-Based Response

Geographic and Temporal Targeting

- Mapping High Idling Zones
- Periodic Sweeps

Positive Reinforcement



# Anti-Idling: Technology

Affordability

Insulation

Automatic Engine Shut-Down & Start-Up/Electronic Engine Idling Parameters

Fuel Operated Heaters

Auxiliary Power Units (APUs)/Generator Sets

Coolant Heaters/Energy Recovery System

Storage Air Conditioners/Battery Heaters

**Vehicle Electrification**

**Truck Stop Electrification**

# Anti-Idling: Financing

## CMAQ (Congestion Mitigation and Air Quality)

- Program funded through Transportation Bill
- MD & NY have used for idling reduction installations

## DERA (Diesel Emission Reduction Act)

- Originally part of the Energy Policy Act of 2005
- Nearly every OTC jurisdiction has used this, but can only be used for:
  - School buses
  - Rail/Marine
  - Truck Stop Electrification

## SEP (Supplemental Environmental Program)

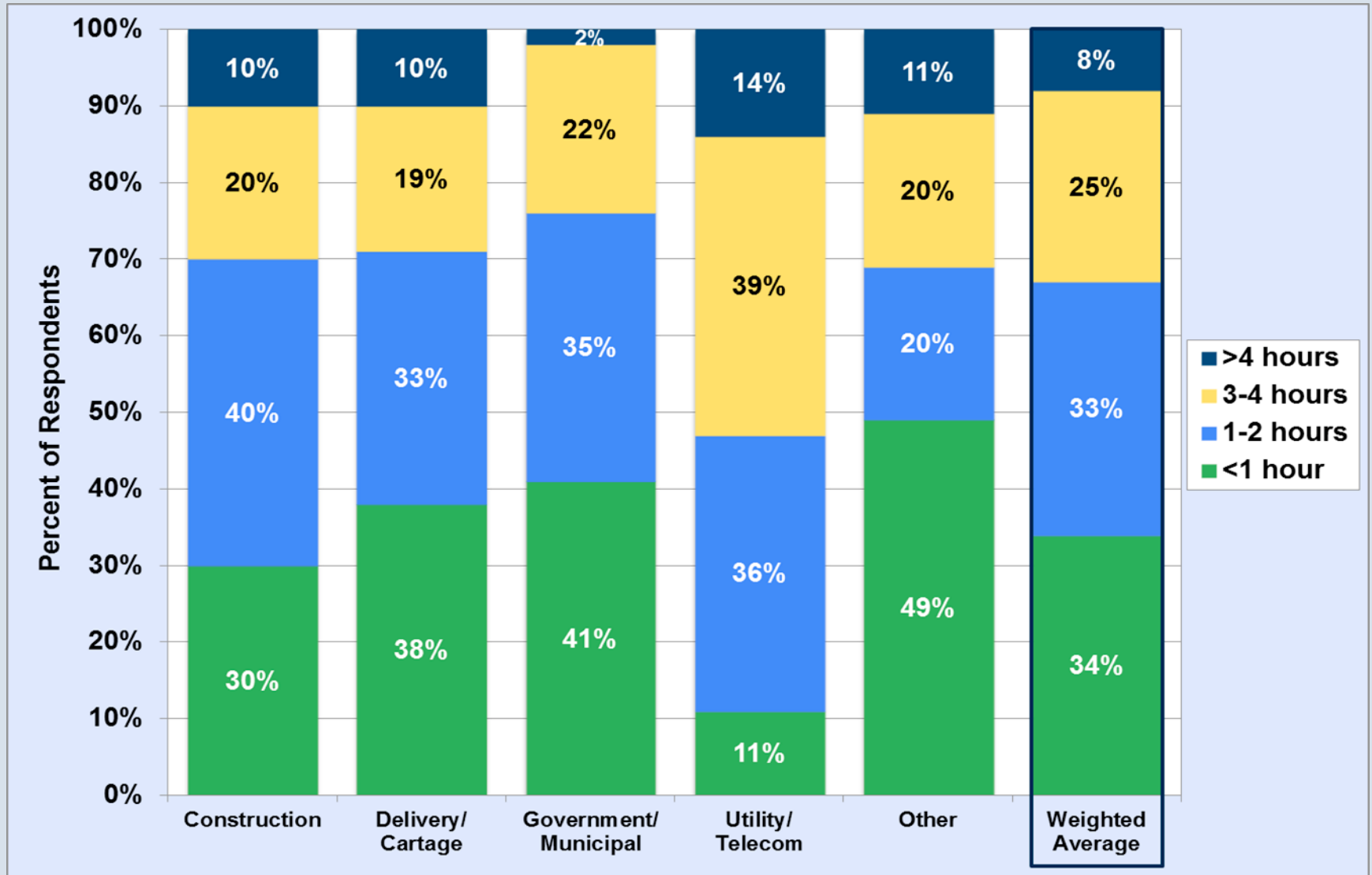
- Funding comes from court settlements due to environmental damage
  - MA & NJ have used to fund idling reduction efforts

## State Funded Programs



# Work Truck Daily Idle Time by Industry

From DoE Truck Idling Survey



# SmartWay® Affiliates Program

## Goal: States in the OTR to join the SmartWay Affiliates Program

- Affiliates are committed to promoting greater energy efficiency and air quality within the freight transport sector through the SmartWay Transport program
- SmartWay affiliates:
  - Promote SmartWay
  - Educate their members about the program and its benefits
  - Train members on best practices related to SmartWay and supply chain efficiency

# OTC SmartWay Affiliates

State	Status
CT	Affiliate
DE	Application Submitted
DC	Affiliate
ME	Affiliate
MD	Affiliate
MA	Affiliate
NH	Affiliate
PA	Affiliate
RI	Affiliate
VT	Affiliate
VA	Affiliate

# SmartWay Calculations

Goal: Calculate  $\text{NO}_x$  benefits of SmartWay program in OTR

- Data to show benefits of expanding
- Potentially gain SIP credit for SmartWay

EPA collects good national scale data, but not much that can be applied specifically to the OTR

Examined several sources, but none have been sufficient

- IFTA (Fuel Tax Data)
- Apportioned Registration Data
- 2007 SmartWay SIP Guidance

Next Step: Improve rough estimates from 2014

# Reducing Emissions from the HD Sector

Monitoring EPA and California rulemaking and activities

Engaging with EPA Office of Transportation and Air Quality

Monitoring progress on Southwest Research Institute (SWRI) low emission HDE study

# Questions