

MassDEP

Municipal Efforts to Reduce Diesel Emissions

GB3 Working Group Meeting

June 5, 2008

Christine Kirby

MassDEP



of Diesel Engines in MA

Out-of-State On-Road Engines	481,000
In-State On-Road Engines	121,476
Off-Road, Land-Based Engines	71,964
Marine Engines	10,288
Stationary Engines	1,081
Area Source Engines	379
Locomotive Engines	259
Total	686,445

Figure E-3.
Diesel PM_{2.5} Emissions, All Massachusetts Sources, Detail
(Percent of 4,017 Tons)

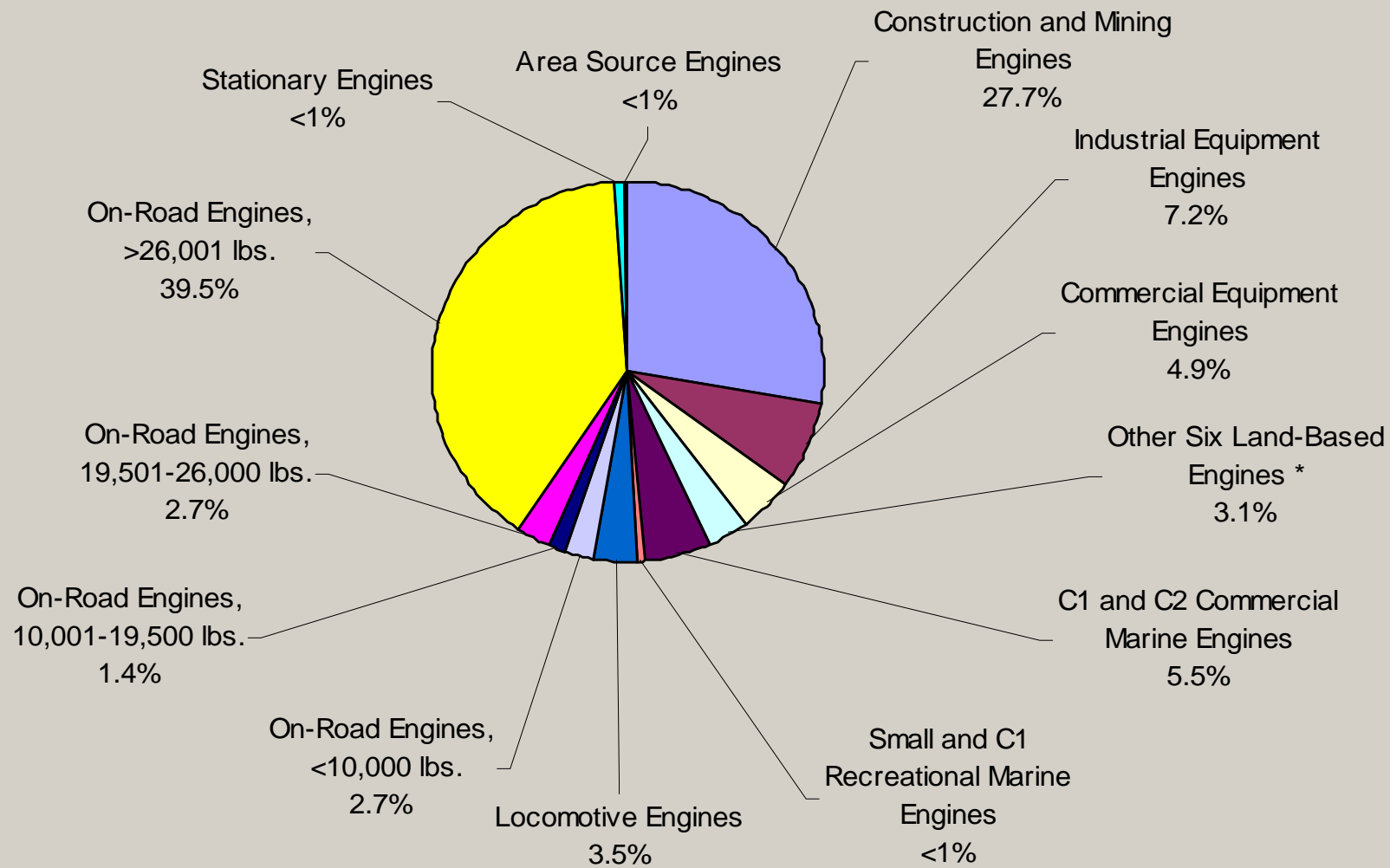
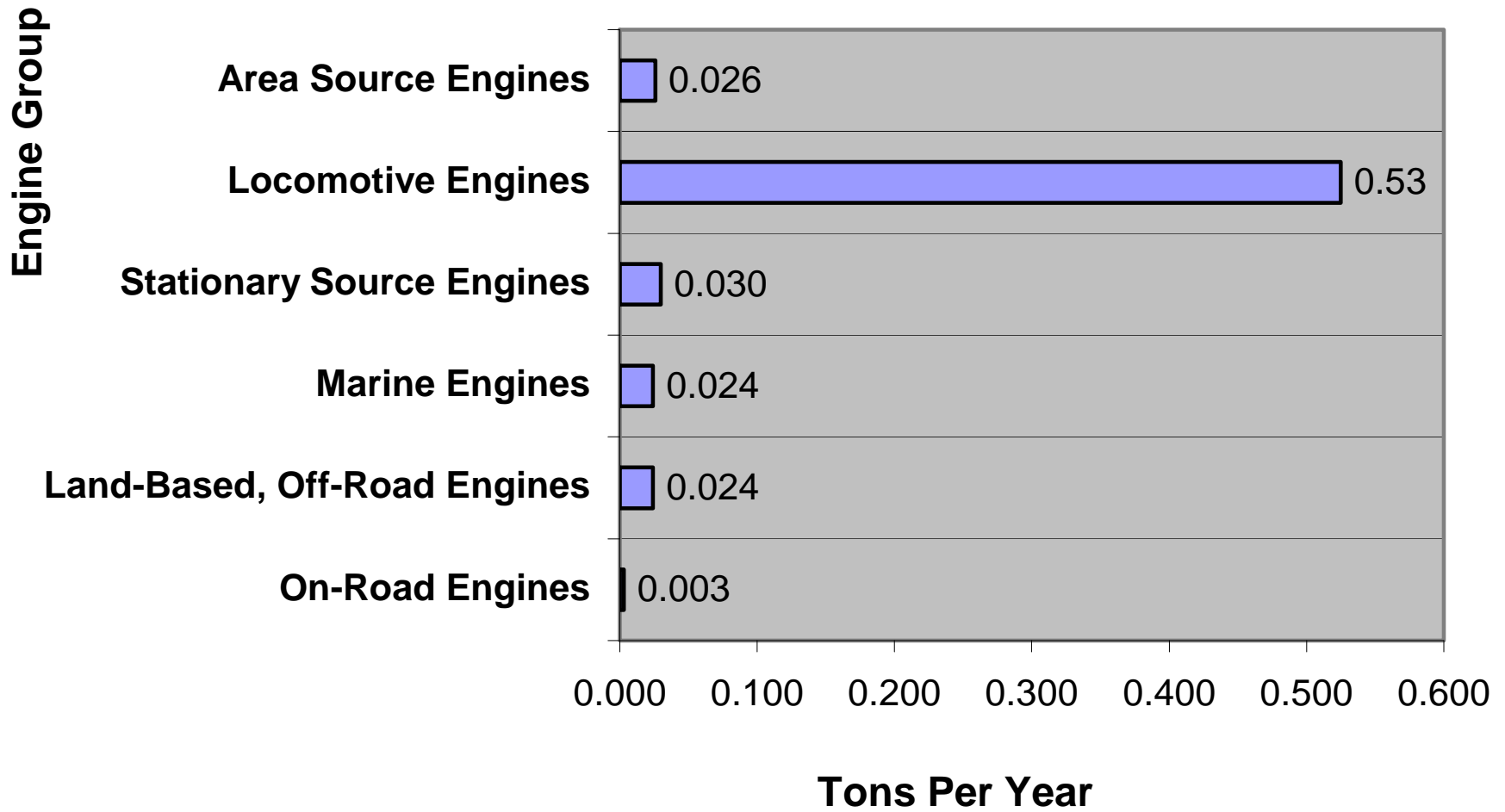


Figure 2-7.
Average Per Engine PM2.5 Emissions, By Engine Sector



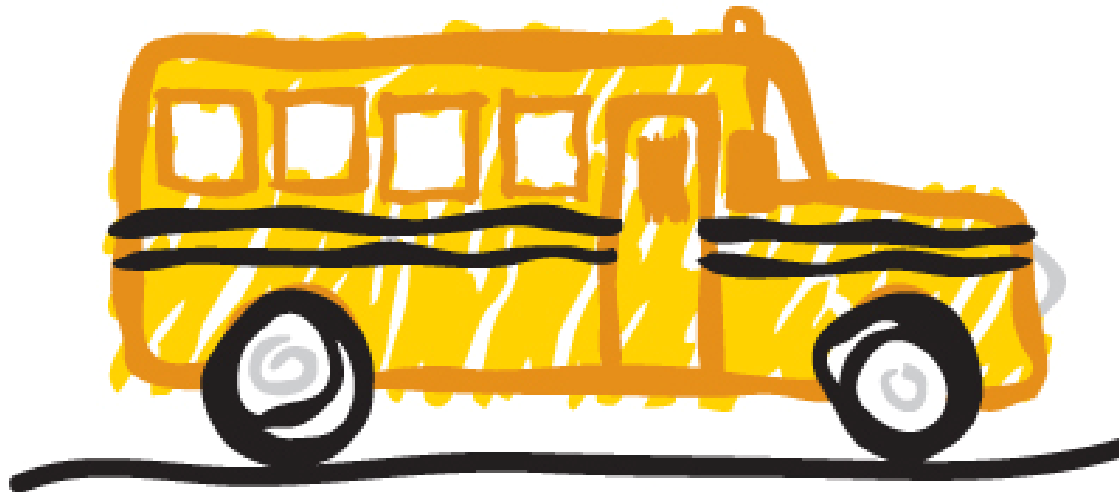


MassDEP Diesel Programs

- CA LEV Standards - standards for new diesel vehicles
- IM Program - Inspection of heavy-duty diesel vehicles for excess smoke; OBD inspections starting in October 2008
- Idling Reduction – ongoing enforcement efforts; idling reduction toolkits granted to municipalities
- Diesel Retrofit Requirements

School Bus Retrofit Program

MASSCLEANDIESEL



Clean Air for Kids



Program

- Fund the procurement and installation of retrofit technologies
- Create state contract for retrofit vendors
- Use of on-line application software for 1) reservation, and 2) payment



MA School Bus Fleet

- Approximately 5,500 Type C and D school buses;
- Massachusetts public school buses range in age from ~1987 to 2008; and
- Approximately 91% of diesel buses are eligible for this program.

Retrofit Technologies

- Require EPA and/or CARB verified DOC, FTF, or DPF tailpipe emission control devices
- Require closed crankcase ventilation systems (CCV)



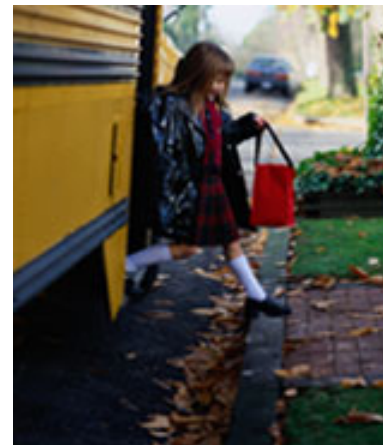


Pollutant Reduction

Pollutant	% Reduction	
	DOC	DPF
CO	80	>85
HC	80	>85
PM	>25	>85

Outreach

- E-mail (MassClean.Diesel@state.ma.us)
- Help Line (617-292-5809)
- Pre-launch Web page
(www.mass.gov/dep/air/diesel/masscleandiesel)





Grants & Funding

- EPA Grants

- Clean School Bus USA – grant will fund school bus retrofits for vocational/tech schools
- Municipal construction vehicles
 - FY 07 - Wakefield, North Andover, Bernardston
 - FY 08 - Buckland, Bourne, Fairhaven, Concord, Framingham, Greenfield, Lowell, Norton, Orange



Grants & Funding (cont'd)

- EPA Diesel Emission Reduction Act
- ~\$50 million in FFY 2008
- Each states will receive \$200,000 minimum allocation
- EPA competitive grant program - ~\$34 million
- Match EPA funds with AEP settlement \$



Priority Projects

- MBTA commuter rail retrofits
- Providence and Worcester Railroad locomotive idling controls and retrofits
- Waste hauler retrofits
- Northeast Hybrid Truck Consortium



Contract Specifications

- Contract Specification for SRF projects
 - 50% of construction equip. retrofit in CY 2001
 - 100% of construction equip. retrofit in CY 2002
- Contract Specification for MHD projects
 - Off-road construction equipment >50 HP



Resources

- MassDEP *Diesel Engine Retrofits in the Construction Industry: A How to Guide*
<http://mass.gov/dep/air/diesel/conretro.doc>
- Massachusetts 2002 Diesel Particulate Matter Inventory
<http://www.mass.gov/dep/air/priorities/aqdata.htm>



Idling Reduction

- MassDEP Idling Reduction Tool Kit for Municipalities
- Fact sheets, letters, news releases, logos and signs - to help city, town and school officials launch vehicle idling reduction campaigns.

<http://www.mass.gov/dep/air/community/schbusir.htm>



Community Resources

- Community Strategies to Reduce Air Pollution and Climate Change
<http://www.mass.gov/dep/air/comstrat.pdf>
- FY 2008 Municipal Sustainability Grants
 - Categories: Idling Reduction Campaign Toolkit; Diesel Retrofits for Waste Collection Vehicles; Diesel Hybrid Checks



Contact information

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Thank You!