



**MIDWEST CLEAN DIESEL**  
**INITIATIVE**

(Insert Title Here)

# Diesel Contributes to PBT Emissions

- Diesel is a contributor to dioxin/furan emissions and B(a)P emissions
- Percentages are small, but important as larger emission sources are reduced through MACT/CWS
- A draft receptor modeling study indicates that diesel emissions are the greatest contributor to B(a)P in ambient air, e.g. about 80% in Chicago



- Goal – Impact 1 Million Engines by 2010
- Elements:
  - Clean School Bus USA – Sustained program development
  - SmartWay Transport Partnership – Keep Region 5 on top nationally
  - Clean Diesel Retrofit Technologies – Addressing ‘legacy’ vehicles
  - Idle Reduction Programs – Broad fleet/technology coverage
  - Cleaner/Alternative Fuels – Expand Use/Address issues
  - Creative Financing – Develop alternatives beyond EPA
  - Partnership with Canada – Reciprocal actions
  - MCDI Leadership Group – State level coalition building

# Retrofit Technologies

Can be placed on existing (“legacy”) engines to reduce emissions

- Diesel Oxidation Catalyst
- Diesel Particulate Filter
- Selective Catalytic Reduction
- Exhaust Gas Recirculation

# Idle Reduction

When an engine is off, it's not emitting pollution or wasting fuel

- Auxilliary Power Units (APU)
- Truck Stop Electrification (TSE)
- Anti-idling regulations/policies/contract language

# Cleaner/Alternative Fuels

- Use ultra-low sulfur diesel (ULSD) in non-road applications before mandated date
- Biodiesel
- Compressed natural gas (CNG)
- Propane

# SmartWay Transport Partnership

Voluntary EPA program to reduce fuel use, emissions, and maximize efficiency

- Partners agree to address their fleet within 3 years
- EPA provides quantification, technical and/or financial assistance, recognition
- Both cost and emission savings for partners

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

# Clean School Bus USA

- Retrofit, repower, or replace aging school buses
- Idle reduction component
- Reduced exposure to diesel emissions in most susceptible population (children)
- Education and outreach component

<http://www.epa.gov/otaq/schoolbus/index.htm>



# MCDI Accomplishments

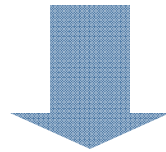
- Development of coalitions within states to create funding and implement projects
  - Examples: \$20M Diesel Fund in Ohio, \$2.4 M Diesel fund in MN
- Connecting partners to generate funds
  - Examples:
    - Over \$62M CMAQ funds (2005 to end of 2007)
    - \$5M in regional competitive grant funds for FY08
- Sharing experiences and materials
  - Examples: bid specs, outreach materials, case studies

# National Clean Diesel Program, FY08 Funding Breakdown

\$49.2 Million for 2008

## National

\$34.4 Million (70%)



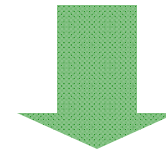
**National Clean Diesel  
Funding Assistance Program \$27.6 M**  
Region 5: \$5M  
(Region 5 Applications due: June 12)

**Clean Diesel Emerging Technologies Program \$3.4 M**  
(Applications due: TBA)

**National Clean Diesel Finance Program \$3.4 M**  
(Applications due: June 9)

## State

\$14.8 Million (30%)



**State Clean Diesel Grant Program \$14.8 M**

**State Base: ~\$200k | Matching Bonus: ~\$100k**

-All Region 5 states applied for the allocation  
-4/5 R5 states will match in 2008

# For More Information

[www.epa.gov/midwestcleandiesel](http://www.epa.gov/midwestcleandiesel)

*General questions and grant information:*

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