

# Connecticut Clean School Bus Program



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**Air Planning**  
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# Clean Diesel Plan 2006

- School Buses identified as a priority sector for emissions reductions
- Thirteen school districts have retrofitted 839 school buses to date in CT:

Bridgeport	Fairfield Public Schools
Hamden Schools	Hartford Public Schools
Mansfield Public Schools	New Haven Public Schools
Newington Public Schools	Newtown Public Schools
Norwich Public Schools	Plainville Public Schools
Stamford Public Schools	Westport Public Schools
Regional School District 18 (Lyme/Old Lyme)	

# Actions to Date

<p>Invitation to Apply for Available FY 2009 Funds</p> <ul style="list-style-type: none"><li>• Communication to school districts</li><li>• Post on website</li></ul>	<p><b>Nov 25<sup>th</sup> 2008</b></p>
<p>Statement of Intent Due from School Districts</p>	<p><b>By Dec 9<sup>th</sup> 2008</b></p>
<p>Applications &amp; Bus Inventory Forms Due from School Districts</p>	<p><b>by Dec 19<sup>th</sup> 2008</b></p>

# School Bus Eligibility

- Must be a full-sized, Type I diesel school bus
- Operated by, or under contract to a school district, excluding emergency contingency and low usage vehicles
- Engine model year of 1994 to 2006
- Projected to be in active service to June 1, 2012
- Verified emission control technology must be available for the bus

# Evaluation Criteria

1. In an EPA-designated PM non-attainment area (Fairfield or New Haven Counties) **(1 point)**
2. In an environmental justice community **(1 point)**
3. Near transportation hubs or corridors **(1 point)**
4. In an urban area **(1 point)**
5. School district with an anti-idling policy **(1 point)**



**Retrofitted buses will be required to remain operational in Connecticut for three years or a comparable emission control technology must be installed on any replacement buses.**

# Selection Process

- Received applications and inventory forms from 32 school districts/towns
- Applications were prioritized according to the criteria
- Top qualifying school districts will be reimbursed for retrofitting school buses
- Other school districts will be given the opportunity to participate as funding permits

# Schedule of Events

Towns must select a vendor and confirm their intent to participate

**By Jan 16<sup>th</sup> 2009**

Obtain Town Approvals & Notification to DEP of Approval

**By February 13<sup>th</sup> 2009**

DEP issues PO To Town

**By February 27<sup>th</sup> 2009**

Town issues PO to vendor for equipment

Completion of Technology Installation

**By May 29<sup>th</sup> 2009**

Reimbursement Forms & Required Documentation of purchase/installation due to DEP

**By June 1<sup>st</sup> 2009**

DEP processing of Reimbursement Forms

**June 2009**

# Program Overview

## School District Tasks

1. Select a vendor
2. Inform DEP of vendor selection and intent to participate to reserve/confirm funding
3. Coordinate with the vendor to select retrofit technology for eligible buses
4. Obtain town approval, if required
5. Inform DEP of town approval and wait for Purchase Order (PO) to be issued by DEP

# Program Overview

## School District Tasks

6. Wait for PO & Reimbursement Form to be issued by DEP
7. When PO is issued by DEP, towns can then place orders with the selected vendor

Towns should include the following statement when placing an order with the vendor:

***“Installation must be completed by May 29, 2009 or payment shall not be made.”***

8. Coordinate installation of technology with vendor
9. Coordinate with DMV for inspections if necessary
10. Submit Reimbursement Form to DEP by June 1, 2009

# Emission Control Technology

- **Diesel Oxidation Catalyst (DOC)**

- Reduces PM emissions by 25% to 50%

- **Partial Flow-Through Filter (FTF)**

- Reduces PM emissions by 50% to 85%

- **Diesel Particulate Filter (DPF):**

- Reduces PM emissions by at least 85%

**Note:** *Due to the time constraints of this program, DPFs are not a feasible option at this time.*

- **Closed Crankcase Ventilation System (CCV)**

- Reduces level of exhaust that gets into the cabin.

# Maximum Potential PM Reductions from Available Technology Options

*(Based on limits of EPA Supplemental Funds)*

<b>Retrofit Device &amp; Numbers</b>	<b>PM Annual: tons/yr</b>	<b>PM Lifetime: tons</b>
<b>DOCs + CCVs on 771 Buses</b>	<b>0.55</b>	<b>7.21</b>
<b>FTFs + CCVs on 108 Buses</b>	<b>0.15</b>	<b>2.02</b>
<b>DPFs + CCVs on 178 Buses</b>	<b>0.48</b>	<b>6.29</b>



State of Connecticut  
 Department of Environmental Protection  
 79 Elm Street  
 Hartford, CT 06106-5127  
 www.ct.gov/dep

# Connecticut Clean School Bus

## Reimbursement Request Form

**Applicant Name:** \_\_\_\_\_

**DEP must receive Reimbursement Forms and all supporting documentation by June 1st, 2009 to be eligible for reimbursement.**

**Payment cannot and will not be processed unless all required documents are received by the due date.**

**Reimbursable Expenses:**

Invoiced costs for the purchase and installation of the retrofit equipment as per the procurement contracts available through the Department of Administrative Services (DAS)

**Non-reimbursable Expenses:**

Expenses for in-house labor contributions.  
 Long-term operational, maintenance, or repair costs.  
 Interest, loans incurred by the applicant.

**Number of Vehicles Retrofitted:** \_\_\_\_\_

**Retrofit Technology Installed:**

Number of Buses

Actual Cost

*Level 1: Diesel Oxidation Catalyst (DOC/CCV)*

**Actual Retrofit Costs:**

\$0.00

**Required Documentation:**

**In order to receive reimbursement for retrofit projects, you must submit the documents listed below with this form by June 1st, 2009. Payment cannot and will not be processed unless all required documents are received. Please check the box next to the documents being submitted with this application and attach them below. If documents are not available in an electronic format, please fax them along with a copy of this reimbursement form to Attn: CT Clean School Bus Coordinator @ (860) 424-4063.**

Reimbursement Request Form

Invoice

School Bus Inventory





# Questions?



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