

US EPA ARCHIVE DOCUMENT



ILLINOIS CLEAN DIESEL GRANT PROGRAM

General Information for the MCDI

November 13, 2008

Illinois Clean Diesel Workgroup for the Midwest Clean Diesel Initiative

**U.S. EPA
Illinois EPA
American Lung Association
Respiratory Health Association
Cummins
Navistar
Caterpillar
Cook County
Inland Power Group
Patten Industries
Donaldson
Autotherm U.S.A.
Chicago Dept. of Environment
Chicago Dept. of Fleet Mgmt.
Chicago Metropolitan Agency for Planning
Metropolitan Mayors Caucus
IDOT**

Activities in 2008 for the Illinois Clean Diesel Workgroup:

1. February 20, 2008: Conference call
2. Several emails regarding the grant applications, program status, other funding sources
3. Chicago Area Clean Cities hosted a Diesel Retrofit Seminar on September 4 in which several ICDW members were present and participated
4. \$37.8 Million acquired in 2008 for clean diesel projects by all members



**Illinois' Clean Diesel
ACCOMPLISHMENTS
in 2008**

Metropolitan Mayor's Caucus

- Federal SEP
- 15 Local Government Projects in Cook, DuPage, and Lake Counties
- \$254,928 for projects to date

USEPA Clean School Bus Grant

American Lung Association of the Upper Midwest Roxana School District



- Roxana School District is located in Madison County which is in non-attainment.
- The school district had no garage facilities for their buses.
- It was estimated that Roxana's school buses idled 45 minutes to 1 hour every day, especially in the winter time.
- 15 school buses were retrofitted with anti-idling equipment (Proheat units).

Urban Locomotives: Gensets

Respiratory Health Association of Metropolitan Chicago



- Outreach to Illinois Railroad Association and companies garners 7 CMAQ proposals for replacing yard switchers with 'genset' locomotives
- Technology pioneered in Mt. Vernon, Illinois for use in southern California rail yards
- Genset technology reduces fuel use approximately 40%, emissions >70%
- NE IL: 5 projects funded
BNSF, UP, Indiana Harbor Belt, Belt Railway of Chicago and Amtrak
- Total investment > \$16m
- Projects are among the most cost effective CMAQ projects in \$/ton removed

FY2008-09 CMAQ Clean Diesel Funding for the Chicago Area

- 13 Diesel Emission Reduction Projects with total cost of \$34.5 Million (including matches)
- \$25.5 Million of CMAQ funds to be awarded

CMAQ Clean Diesel Projects include funds for:

- School buses
- Locomotive switch engine “GenSets”
- Public works trucks
- Mass transit buses

Types of Funding Pursued in 2008 for “Illinois Clean Diesel Grant Program”

➤ U.S. EPA Grants

- 1. State Allocation Grant**
- 2. Competitive Grant**

➤ CMAQ Grants

- 1. Clean School Bus Grant**
- 2. Locomotive “GenSet” Grant**

➤ SEP Funding

**some have geographic and other restrictions on
the types of projects**

Illinois Clean Diesel Projects Identified for 2009

U.S. EPA Funding

2009 State Allocation Budget

<u>Technology</u>	<u># Units</u>	<u>Est. Budget</u>
Diesel Oxidation Catalysts	38	\$60,800
DOC & Closed Crankcase	24	\$45,600
Diesel Particulate Filters	5	\$40,000
DPF & Closed Crankcase	4	\$34,000
Multi-Stage Filter & CCV	5	\$32,500
Direct Fired-Heaters	20	\$84,000
*Auxiliary Power Units	10	\$60,900
*Diesel Hybrids	5	\$137,500
Total charged to grant:	111	\$495,300
*30% Match for APUs, 75% for Hybrids (\$438,600)		\$933,920

SEP Funding Criteria for Allocation Grant



- Under the terms of one SEP, \$105,000 of the \$200,000 used for the U.S. EPA grant match must be spent on school bus projects
- The \$105,000 is to be used for diesel oxidation catalysts, particulate filters, or non-idling equipment
- The school buses must be “district-owned”
- The school districts must be located in Grundy, Kendall, Kankakee, Livingston, or LaSalle Counties

U.S. EPA Funding 2009 Competitive Grant

Area: Statewide (Fleets already identified)

Status: Recommended for funding

- **U.S. EPA: \$678,604**
- **Applicant Matches: \$654,699 (est.)**
- **14 Projects for IL: \$1,333,303 (est.)**



U.S. EPA Funding

2009 Competitive Grant Budget

<u>Technology</u>	<u># Units</u>	<u>Est. Budget</u>
Diesel Oxidation Catalysts	15	\$19,500
DOC & Closed Crankcase, Diesel Particulate Filters	35	\$91,000
DPF & Closed Crankcase	15	\$110,740
Multi-Stage Filter/CCV, DFH	24	\$118,800
Direct Fired-Heaters	3	\$10,434
*Auxiliary Power Units	8	\$48,880
*Diesel Hybrids	6	\$191,250
Total charged to grant	106	\$590,604
*30% Match for APUs, 75% for Hybrids (\$654,699)		\$1,245,303

Illinois Clean School Bus Funding

- **History:** 77 School Districts have received \$3,595,094.02 for 2,975 clean school buses
- **Options included oxidation catalysts, particulate filters, direct-fired heaters, closed crankcase ventilation systems, and biodiesel**
- **Illinois EPA applied for \$1 million CMAQ grant for Clean School Bus projects in the Chicago area (Cook, DuPage, Kane, Lake, McHenry, and Will Counties)**
- **This funding is for public or private schools that own and operate their own buses, or have a long-standing relationship with a company that commits to keeping clean school buses servicing the district for several more years**
- **Status:** CMAQ project selection committee has recommended that this project be funded; funding is expected to be available in Spring 2009



2009 CMAQ Clean School Bus Funding for the Chicago Area



Estimated CMAQ Project Budget by Option

<u>Technology</u>	<u># Units</u>	<u>Budget</u>
Oxidation Catalysts	252	\$428,400
Particulate Filters	60	\$378,000
Direct-Fired Heaters, Non-Idling Equipment	43	\$193,500
Totals	355	\$999,900

2009 IEPA CMAQ Switch Engine Locomotive “GenSet” Project

Amtrak

1 GenSet Locomotive

CMAQ funding: \$1.2 million

Applicant Match: \$300,000

Total Project: \$1.5 million



SEP Funding Possibilities

1. **\$105,000 for clean diesel projects statewide (approved)**
2. **\$43,500 for direct-fired heaters for two school districts in Logan County (TBD)**
3. **Up to \$700,000 for school bus idling equipment in Metro-East area and Southern Illinois (TBD)**

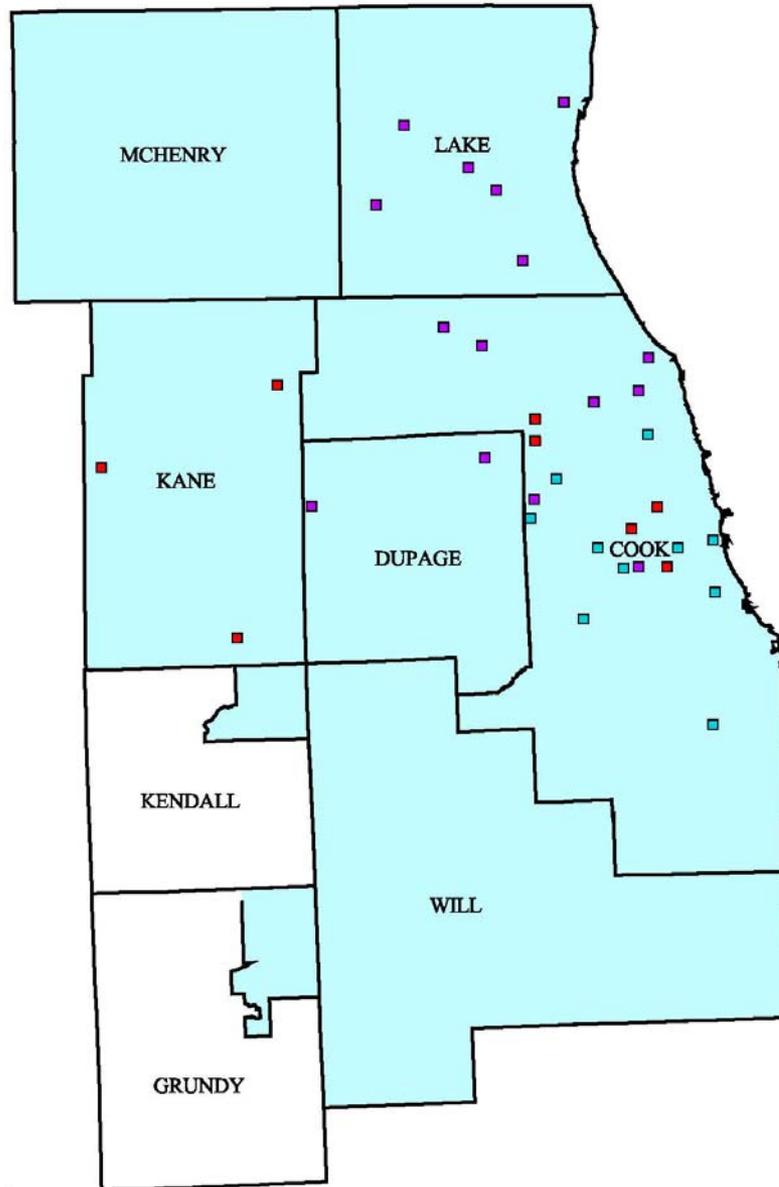
SEP Funding Total: \$848,500 (est.)

(\$200,000 SEP Match for Allocation Grant not included in this figure)

Summary of Total Potential Funding for Illinois Clean Diesel Grants in 2009

<u>Funding Source</u>	<u>Award</u>	<u>Match</u>	<u>Total</u>
IEPA Administered Grants/Funds			
EPA Allocation:	\$ 295,320	\$638,600	\$ 933,920
EPA Competitive:	\$ 678,604	\$654,699	\$1,333,303
CMAQ:	\$2,200,000	\$300,000	\$2,500,000
SEP Funding:	\$ 848,500		\$ 848,500
Subtotal:	\$4,022,424	\$1,593,299	\$5,615,723
Other Partners:			\$32.2 Million
Total for all IL Projects:			\$37.8 Million

Illinois Clean Diesel Projects



Legend

- Metropolitan Mayor's Caucus
- U. S. EPA Competitive Grant
- Congestion Mitigation Air Quality
- County Boundaries
- Chicago Non-Attainment Area

Illinois Clean Diesel Projects

Northwest
2 Projects
\$30 K

Northeast
33 Projects
\$20.6 M
4 Regional
\$6.5 M

Central
3 Projects
\$62 K

Southern
2 Projects
\$51 K

1 Regional
\$700 K

Statewide
3 Programs
\$895 K



Other Diesel Projects/Initiatives in Illinois: **Idling Campaign**

The following fact sheets and brochures are posted on our website at illinoisgreenfleets.org:

- **What You Should Know About Diesel Truck Idling**
- **Ladies and Gentlemen: Turn Off Your Engines!**
- **Alternatives to Diesel Truck Idling**
- **Public Act 094-0845: Illinois Idling Law**
- **Fact Sheet on Illinois Idling Law**

Illinois Green Fleets Program

Website: illinoisgreenfleets.org

- **Illinois Clean Diesel Grant Program: application form, vehicle information spreadsheet, instructions, fact sheet, and guidance**
- **Information on “clean diesel funding,” the MCDI, new announcements regarding the program, and types of projects or locations of projects we are seeking**



Illinois Clean Diesel: Next Steps

- **Continue discussions with Illinois Clean Diesel Workgroup in 2009**
- **Primary focus is to implement current projects, working with vendors and applicants, and following up for reports**
- **Seeking state and federal SEPs, applying for new federal funding in 2009**
- **Once the funds “start to flow,” we will experience a large increase in applicants**
- **Managing applicants and trying to fund all worthy projects with the available resources could be a challenge**