

EPA Workshop on Diesel Emission Reduction Funding Opportunities

November 19, 2019
Davenport, Iowa



Hosted by EPA Regions 5 and 7

Midwest Clean Diesel Initiative



www.epa.gov/midwestcleandiesel

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Dear Colleagues,

EPA Regions 5 and 7 are excited to host this workshop on diesel emission reduction funding opportunities. This workshop will serve as a platform for grant administrators and local grantees to share insights about applying for and implementing grants that reduce diesel emissions from vehicles and inland ports. Our intention is to facilitate networking, discussion, and information sharing on local and national diesel emission reduction funding resources and strategies.

As you can see from the enclosed agenda, we begin with a presentation on air quality and health effects of diesel emissions, followed by an overview of EPA diesel-related programs. This will set the stage for the rest of the day, which will include coverage of Diesel Emissions Reduction Act (DERA) national grants, region-specific diesel emission funding opportunities, case studies, an update on tampering-related issues, and tips for submitting successful grant applications.

We are pleased to feature Faye Swift, the DERA Grants and Policy Team Leader for EPA. Other notable speakers include Angela Tin, Vice President of Environmental Health for the American Lung Association of the Upper Midwest; Anthony Maietta, Environmental Program Officer of EPA Region 5; and Stuart Anderson, Director of Planning, Programming, and Modal Division for the Iowa Department of Transportation.

In addition to the agenda, in this brochure you will find professional biographies of our speakers and moderator, 10 tips for successful grant applications, helpful resources, and lunch information.

If you are new to the clean diesel community, we welcome you and hope you consider region-specific and national diesel emission reduction funding opportunities. If you are already active in this sector, we are happy to see you again and hope the workshop adds to your knowledge base.

Sincerely,

Anthony Maietta, EPA Region 5 | Greg Crable, EPA Region 7

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Agenda

Tuesday, November 19, 2019	
8:30 a.m. – 9:00 a.m.	Registration
9:00 a.m. – 9:15 a.m.	Opening Remarks Welcome <ul style="list-style-type: none"> • Greg Crable, EPA Region 7
9:15 a.m. – 9:45 a.m.	Session 1: Air Quality and Health Effects of Diesel Emissions Speaker <ul style="list-style-type: none"> • Angela Tin, American Lung Association
9:45 a.m. – 10:30 a.m.	Session 2: Overview of EPA Diesel–Related Programs Speaker <ul style="list-style-type: none"> • Anthony Maietta, EPA Region 5
10:30 a.m. – 10:45 a.m.	Break
10:45 a.m. – 11:45 a.m.	Session 3: DERA National Grants Speaker <ul style="list-style-type: none"> • Faye Swift, EPA
11:45 a.m. – 12:45 p.m.	Lunch
12:45 p.m. – 1:45 p.m.	Session 4: Region–Specific Clean Diesel Funding Opportunities Speakers <ul style="list-style-type: none"> • Angela Tin, American Lung Association • Anthony Maietta, EPA Region 5 • Stuart Anderson, Iowa Department of Transportation
1:45 p.m. – 3:00 p.m.	Session 5: Case Studies—Current Projects Moderator <ul style="list-style-type: none"> • Michael Audino, Audino & Associates Speakers <ul style="list-style-type: none"> • Carter Newt, Newt Marine Services • John DeRosa, American Lung Association • Mike Bima, Bima Enterprises, LLC • Sara Lamprise, Metropolitan Energy Center
3:00 p.m. – 3:15 p.m.	Break
3:15 p.m. – 3:45 p.m.	Session 6: Tampering—EPA Diesel Regulations Speakers <ul style="list-style-type: none"> • Anthony Maietta, EPA Region 5 • Frank J. Acevedo, EPA Region 5
3:45 p.m. – 4:00 p.m.	Session 7: 10 Tips for Successful Grant Applications Speaker <ul style="list-style-type: none"> • Greg Crable, EPA Region 7
4:00 p.m.	Adjourn

Speaker and Moderator Biographies

Greg Crable works in EPA Region 7's Air and Radiation Division. After graduating from Kansas State University with a bachelor's degree in architecture, he worked as an architect for both private and government sectors before coming to EPA. Region 7 hired him to address environmental issues in buildings, such as asbestos, mold, and radon. Since 2012, Greg has helped review and approve Nebraska state regulations under the Clean Air Act, and he serves as the DERA Coordinator, which includes managing three funding programs. He is also the contact for the Clean Diesel Program's Ports Initiative and EPA's Energy Star Program. For the last three years, Greg has been a member of EPA's National Incident Management Assistance Team, responding to emergencies across the country, such as wildfires, tornadoes, hurricanes, and floods.

Angela Tin is an environmental and regulatory compliance professional with a bachelor's degree in physiology and a master's degree in cell biology. For over 20 years, she has worked at the managerial and policy levels in the Bureaus of Air, Land, and Water at the Illinois Environmental Protection Agency. As the current National Senior Director for Clean Air Initiatives for the American Lung Association, Angela is primarily responsible for managing and prioritizing environmental projects. For the past 14 years, she has partnered with industry, state, and local agencies to promote outdoor and indoor air quality programs.

Anthony Maietta is a life scientist working in EPA Region 5's Air and Radiation Division. He graduated from the University of Illinois at Urbana-Champaign with a bachelor's degree in ecology, ethology, and evolution. Since 2003, his work at EPA includes reviewing and processing state clean air laws under the Clean Air Act, ensuring transportation conformity in Indiana and Ohio, and managing voluntary programs such as the Midwest Clean Diesel Initiative. Anthony has worked on clean diesel programs since 2005 and serves as the technical contact for clean diesel grants in Illinois, Indiana, and Minnesota.

Faye Swift works in EPA's Legacy Fleet Incentives and Assessment Center within the Office of Transportation and Air Quality. She is the DERA Grants and Policy Team Leader, overseeing the DERA grant and rebate programs. Before coming to EPA Headquarters, Faye previously worked on mobile source programs in EPA Region 2 and tribal air programs in EPA Region 5.

Stuart Anderson graduated with a bachelor's degree in civil engineering from Iowa State University in 1991 and is currently Director of the Planning, Programming and Modal Division at the Iowa Department of Transportation. The division is responsible for long-range multi-modal transportation planning and programming and the administration of modal funding programs. These programs include the state of Iowa's administration of Volkswagen Settlement funds, the DERA program, and federal congestion mitigation and air quality improvement funds.

Michael Audino is the Principal at Audino & Associates, a consultancy that facilitates and develops strategic and operational plans, designs and implements communications and public outreach initiatives, and develops and delivers educational seminars for public and nonprofit sector clients. Michael's notable Iowa-based clients include the Des Moines International Airport, former Iowa Governor Vilsack's strategic planning council, the Iowa Department of Natural Resources' Energy Bank Program, Keep Iowa Beautiful, the Region XII Council of Governments, the Iowa Department of Personnel, the Des Moines Area Community College, and Graceland University. Michael is co-founder of the Charitable Giving Resource Center, a West Des Moines-based company that has helped over 100 nonprofit organizations build organizational capacity and improve operational performance. Michael also serves as a research faculty member in the College of Engineering at the University of South Florida. He holds a master's degree in business leadership from Upper Iowa University and a bachelor's degree in community and regional planning from Iowa State University.

Speaker and Moderator Biographies

Mike Bima is a successful project/program manager with experience in a broad scope of activities at a Fortune 100 company. His diverse background includes factory supervision, manufacturing engineering, plant engineering supervision, and general management of a contract manufacturing business. In addition, he has served as a quality manager, business process improvement manager, change management facilitator, new product introduction project manager, E-business coordinator, employee involvement program manager, marketing professional, and master scheduler for EPA Tier 4 certification. All of Mike's assignments required initiative and the ability to work with others, communicate, understand change management, and utilize business process improvement and Caterpillar 6 Sigma techniques.

John DeRosa is a graduate of Illinois College, where he received his bachelor's degree in environmental biology. He is currently a Director of Clean Air Initiatives for the American Lung Association of Illinois, where he has been working since August 2006 and is responsible for coordinating all indoor and outdoor air quality programs. He has interned with the Illinois Environmental Protection Agency, Bureau of Air, Clean Fuels Program, which promotes the use of alternative fuels throughout the state.

Sara Lamprise is Program Director at Metropolitan Energy Center (MEC), a Kansas City-based nonprofit with a 36-year history of transforming energy use in America's heartland. As part of its mission, MEC works with governments, fleets, and private businesses to spread the adoption of alternative fuels. Sara oversees MEC's transportation and energy efficiency programs and helps develop new project initiatives. She manages seven active federal grants, including three through EPA's DERA program. Her strengths lie in relationship building, grant writing, and project development. Sara previously worked as an environmental scientist at EPA Region 7. She has bachelor's degrees from Rockhurst University and the University of Missouri–Kansas City. Sara's passion for the environment extends to her hobbies, as she spends her time rock climbing and minimalist backpacking.

Francisco "Frank" J. Acevedo is a Mobile Source Program Manager with EPA's Region 5 office, which serves Illinois, Indiana, Ohio, Michigan, Minnesota, and Wisconsin. Frank serves as the mobile source air pollution expert for the region and has been with the agency since 1991. Frank has assisted in the implementation of a number of clean fuel programs in addition to vehicle emission testing programs in Indiana, Illinois, and Ohio. He also is the technical expert for Region 5's Midwest Clean Diesel Initiative, assisting states in the implementation of voluntary diesel retrofit projects. Frank received a bachelor's degree in electrical engineering and a master's degree in business administration from the University of Illinois at Chicago.

Lunch Options

Restaurant	Address	Driving Distance from Event
The J Bar	Onsite	N/A
Bayside Bistro	1105 Christie St, Davenport, IA 52803	9 minutes
Village Corner Deli	1030 Mound St, Davenport, IA 52803	9 minutes
Downtown Deli	330 N Main St, Davenport, IA 52801	14 minutes
Brew in the Village	1104 Jersey Ridge Rd, Davenport, IA 52803	9 minutes



10 Tips for Applying for DERA Funding

Follow these 10 tips to help you create and submit a successful DERA application.

<https://www.epa.gov/cleandiesel>

1. **Write to the evaluation criteria.** EPA's evaluation teams score and rank applications using nine evaluation criteria found in Section V. Be sure to address all of them!
2. **Format the project narrative.** Include a cover page and sections labeled 1–8. Limit your narrative to 12 pages.
3. **Submit *all* required forms and documents.** They are specified in Section IV and Appendix F.
4. **Use proper budget categories and itemize all costs.** See Appendix B.
5. There are three ways to implement projects and fund project partners: 1) direct implementation, 2) subawards, and 3) participant support costs (e.g., rebates). **Be clear on how your projects and partnerships will be funded.**
6. **Submit your application 3 days in advance if possible.** If there's a problem with the portal or your application, this gives you time to address it. Of course, carefully follow application and submission requirements (see Section IV and Appendix A) to avoid any issues.
7. **Complete an applicant fleet description** even if you cannot specify the exact fleets and/or emission reduction technologies.
8. **Use the Diesel Emission Quantifier (DEQ).** This easy-to-use tool helps you calculate your project's proposed emission reductions and cost-effectiveness. (Or use an alternative method.)
9. **If your project involves upgrading a locomotive, marine engine, or stationary generator,** clearly and concisely explain why/how the proposed emission reductions are not subject to the Restriction from Mandated Measures under the RFA. See Appendix B.
10. **Have a question?** Contact Greg Crable, EPA Region 7, 913-551-7391, Crable.Gregory@epa.gov, or Anthony Maietta, EPA Region 5, 312-353-8777, Maietta.Anthony@epa.gov.

For more information, please check out the DERA helpline at <https://www.epa.gov/cleandiesel/forms/contact-us-about-clean-diesel>



Completing the Fleet Sheet

You will need to provide specific information on the vehicles, vessels, locomotives, and/or equipment that you are planning to replace or retrofit. Collecting this information can be time-consuming depending on your fleet management records. *Don't wait until the last minute.* Start completing your fleet sheet at the same time you start working on your grant proposal.

Information You Will Need

In addition to ownership information and area of use, collect the following details:

- Vehicle or engine group target
- Vehicle class or equipment type
- Vehicle identification number(s)
- Vehicle make, model, and model year
- Engine horsepower
- Engine tier (*nonroad and locomotive only*)
- Engine cylinder displacement (*liters per cylinder*)
- Number of cylinders per engine
- Engine family name (*if unregulated, then N/A*)
- Engine fuel type and annual amount used
- Annual usage hours, including idle hours (*nonroad and locomotive only*)
- Annual miles traveled and idling hours (*on-highway only*)
- Annual hoteling hours (*Class 8 long-haul combination only*)
- Remaining life and normal attrition year

• The EPA engine family name is a 12 character name

- Pre-2000 starts with alpha character

1993 starts with P	1997 starts with V
1994 starts with R	1998 starts with W
1995 starts with S	1999 starts with X
1996 starts with T	2000 starts with Y
- 2001 + starts with numeric character : (2001 starts with 1..., 2002 starts with 2...)

• Next 2 letters represent the engine manufacturer

CP = Cat	HM = Hino
CE = Cummins	SZ = Isuzu
DD = Detroit Diesel	MB = Mercedes Benz (Chrysler)
MK = Mack	MT = Mitsubishi
VT = Volvo	ND = Nissan
NV = Navistar (International)	PK = Perkins
GE = General Engine	R3 = Renault
GM = General Motors	

Detroit diesel name plate
 EPA family name: 5DDXH14.0ELY
 Engine model year: 2005
 Engine horsepower: 515 HP

IMPORTANT ENGINE INFORMATION

2005 THIS ENGINE CONFORMS TO U.S. EPA AND CALIFORNIA
 505 REGULATIONS APPLICABLE TO 2005 MODEL YEAR NEW HEAVY DUTY
 DIESEL CYCLE ENGINES. THIS ENGINE HAS A PRIMARY INTENDED
 SERVICE APPLICATION AS A HEAVY HEAVY DUTY ENGINE.

FUEL RATE AT ADV. HP 302.0 MM3/STROKE ADV. HP 515 AT 1300 RPM
 INITIAL INJECTION TIMING 13 DEG. BTC DISP. 14.0L
 ENGINE FAMILY 5DDXH14.0ELY MIN. IDLE 600 RPM
 MODEL SERIES 60. 14.0L MFG. DATE APR 2005
 UNIT 06R083B490

SmartWay Transport Partnership

<http://www.epa.gov/smartway>

National Clean Diesel Campaign

<http://www.epa.gov/cleandiesel>

EPA Ports Initiative

<http://www.epa.gov/ports-initiative>

Midwest Clean Diesel Initiative

<http://www.epa.gov/Midwestcleandiesel>

EPA Speaker Contact Information

- Frank J. Acevedo, EPA Region 5, Acevedo.Francisco@epa.gov
- Tony Maietta, EPA Region 5, Maietta.Anthony@epa.gov
- Greg Crable, EPA Region 7, Crable.Gregory@epa.gov
- Faye Swift, EPA Headquarters, Swift.Faye@epa.gov