



Connecticut Department of Energy and Environmental Protection



Diesel Emissions Reduction Act (DERA): Awards & Opportunities

SIPRAC 2/14/19

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Background & History

- Diesel Emissions Reduction Act was included in the Energy Policy Act of 2005
 - *PUBLIC LAW 109–58—AUG. 8, 2005*
- Annual Budget Allocation by Congress
- Establishes several types of clean diesel funding
 - State DERA: Non-competitive state allocations; state administered
 - National DERA: Regional projects, EPA-administered, focused on public entities (competitive)
 - Clean School Bus is a subset of National DERA
 - Nationwide lottery
- 2008 First Year of Funding



State Program Goals & Restrictions

- Funding can support grant, **rebate**, and loan programs
- Administered by eligible states or territories
- Designed to achieve significant reductions in diesel emissions.
- Restrictions
 - No fleet expansion
 - Early Replacement
 - Scrappage
 - Limited Model Year Ranges



State Program Structure

- Notice of Intent to participate
- Workplan Submitted to EPA and Approved (June 2018)
- Solicitation opened October 3, 2018
- \$742,000 Available
 - EPA allocation
 - VW DERA Option funds as voluntary match
 - EPA Matching Incentive
 - State SEP funds as additional voluntary match
- Deadline November 27, 2018
- Grants Awarded December 21, 2018



Eligible Projects

- Early Replacement
- Repower / Engine Replacement
- Engine Upgrades / Rebuilds
- Clean Alternative Fuel Conversions
- EPA-Verified Idle Reduction Technologies
- Exhaust Emission Control Technologies
- EPA-Verified Aerodynamic Technologies and Low Rolling Resistance Tires



Connecticut State DERA Projects

- **Early Replacement:**

- 6 Refuse & Recycling Trucks
- 6 Municipal Dump Trucks
- 4 State Box Trucks
- 1 Sewer Pumper Truck
- 1 Shuttle Bus
- 2 Pieces of Municipal Non-Road Equipment (Bobcat, Skid Steer Loader)

- **Alternative Fuel Conversion**

- 1 CNG Refuse Hauler



Connecticut State DERA Projects, *Contd.*

- **Diesel Emissions Controls (Retrofits)**
 - 353 School Buses
 - 181 State Trucks
 - 24 Pieces of Construction Equipment for State Contractors
- **Locomotive Idle Reduction: 2 Switch Engines**
- **Engine Replacements (Repowers), all marine**
 - 2 Ferries
 - 1 River Tow Boat
 - 2 Commercial Fishing Vessels



Process Summary

- Project Solicitation October 3 – November 27, 2018
- 20 proposals received, requesting \$1.02M
- 14 Proposals selected, funding \$742,000
- Project implementation plans are being finalized for accepted projects
- Project completion by August 31, 2019
- State contracts required for most private grants



Evaluation Criteria

Program Focus:

- Maximize PM_{2.5} & NO_x reduction
 - Annual NO_x & PM_{2.5} Reductions in tons/year
 - Lifetime NO_x & PM_{2.5} Reduced in tons
 - Lifetime Cost Effectiveness \$/ton NO_x reduced
- Prioritize emission reductions in nonattainment areas and highly impacted areas
- Prioritize emission reductions in EJ communities



Overview of Selected Projects

14 Projects Selected for 2018 funding

- 2 School Bus Projects: total 3 school buses
 - 2 Diesel Buses replaced by Propane Buses
- 3 Marine Repower Projects
- 3 Commercial Truck Projects: total 9 trucks
- 5 Municipal Truck Projects
- 1 Municipal Non-road Equipment Project:
 - 1 backhoe
 - 2 commercial mowers



Summary of Total Benefits

For the 14 selected projects for 2018 State DERA

- Annual NO_x Reduction: 8.7 tons
- Lifetime NO_x Reduction: 19.0 tons
- Lifetime PM_{2.5} Reductions: 0.4 tons
- Lifetime CO₂ Reductions: 350.5 tons
- Lifetime VOC Reductions: 1.6 tons
- Average Cost Effectiveness, DERA share: \$39,033/ton of NO_x reduced



2019 State DERA Program

Watch for Announcements in October!



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National DERA Solicitation Open

National DERA accepting Proposals NOW

- \$40 Million Nationwide
- Highly Competitive
- Significant Reductions in Diesel Emissions
- Particularly in Designated Poor Air Quality Areas



National DERA Solicitation Open

- **Eligible Entities include:**
 - regional, state, local or tribal agencies/consortia or port authorities with jurisdiction over transportation or air quality and
 - nonprofit organizations or institutions that
 - represent or provide pollution reduction or educational services to persons or organizations that own or operate diesel fleets or
 - have the promotion of transportation or air quality as their principal purpose.
 - School districts, municipalities, metropolitan planning organizations (MPOs), cities and counties



National DERA Solicitation Open

- National DERA accepting Proposals NOW
- **Deadline extended to March 26, 2019**
- Maximum \$1,000,000 for Region 1 (New England)
- Registration through grants.gov, which requires registration before use
- RFP & Information at <https://www.epa.gov/cleandiesel>



Future DERA Grant Programs

- Go to DEEP's Diesel Grants & Funding Website
- Contact me to sign up for our Clean Diesel Stakeholder email distribution list
- All new State DERA grant programs will be announced on the website and National DERA information forwarded through this email distribution list.



Questions?



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Contact Us

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