

NH STATE CLEAN DIESEL PROGRAM FY21 OVERVIEW

RICKY DICILLO, GRANTS COORDINATOR, AIR RESOURCES DIVISION NHDES



- For official details on the program, see RFP, EPA Program Guide, and more at:
- <https://www.des.nh.gov/business-and-community/loans-and-grants/dera>



QUICK SNAPSHOT

- Approximately \$800,000 for diesel emission reduction projects
- Short application and reporting requirements
- Eligible entities include municipalities, school districts, businesses, and state agencies
- Eligible projects include vehicle/engine/equipment (diesel units) replacement projects, plus other emission reduction strategies
- Proposals due December 17th at 4:00 PM

LOGISTICS

- Proposals due December 17, 2021, 4:00 PM
- Notification of selection by approximately January 21, 2022
- Projects must be completed before September 30, 2022

- Reimbursement only; project type determines % of project cost reimbursable
- Expenditures incurred prior to G&C approval (approx.: March) **will not be reimbursed**

PURPOSE AND BACKGROUND

Purpose

- Improve NH's air quality for human health and environment
- Reduce diesel emissions of NO_x, PM_{2.5}, and CO₂,
- Exposure to diesel emissions can contribute to health problems such as asthma, lung cancer, and other cardiac and respiratory diseases and can cause premature death

Funding Background

- Matching EPA funds with NH VW Trust funds unlocks an EPA bonus (50% of EPA base funds)
- EPA Base \$ + VW Match \$ + EPA Bonus \$ = Total, Approx. \$800,000
- Visit <https://www.epa.gov/dera/state> for more about the funding background

NEW THIS YEAR

New EPA Rules for Certain Projects

- Units must have 3+ years of useful life left in them (even if you were to sell them)
- Applicant must have owned unit for 2+ years
- Individual usage requirements per unit type (hours in use or miles traveled)

New Priorities

- Alternative fuels and electric vehicles (even replacing new vehicles)
- Projects affecting low-income populations
- Environmental Justice

ENVIRONMENTAL JUSTICE – PRIORITY OF EPA AND NHDES

Accessibility

- Prospective applicants may request additional support in project development, application development, reference resources, clarification, feedback, etc.
- Email designated contact person (Ricky)
- Support may be prioritized based on EPA's equity and justice priorities as well as NHDES resources
- Connection with Granite State Clean Cities Coalition to support fleet conversion
 - Email jessica.wilcox@des.nh.gov for more

Scoring

- Large % of score calculated based on the project's benefit to an economically disadvantaged population
- Bonus points for projects with additional benefits, including other environmental benefits or benefiting a disadvantaged community
- Bonus points for replacement with electric, compressed natural gas, or propane

SCOPE

Projects include...

- Replace diesel vehicles/engines/equipment with alternative fuel or electric (bonus points awarded)
- Replace **old** diesel with newer, cleaner diesel
- Install idle reduction to vehicles/equipment
- Install shore power/electrified parking spaces for long-haul trucks, locomotives, and marine engines to reduce idling

Open to...

- Municipalities, school districts, private businesses (for-profit and non-profit), state agencies
- Buses, Class 5-8 trucks, locomotives, marine vessels, construction equipment, agricultural pumps, and more

GENERAL ELIGIBILITY CHECKLIST FOR REPLACEMENT PROJECTS (NON-EXHAUSTIVE)

- Project has not been started
- Existing unit is diesel and fully operational
- Unit operates majority of time in NH
- Applicant has owned and operated since March 2020
- Unit must be capable of continuing to operate through March 2025 (if you don't get the grant)
- Existing unit will be scrapped once replaced (Project Agreements will have exact requirements)
- Proposed unit will be used for the same purposes and will be similar in form
- Diesel replaced with diesel for 2009 or older only
- Diesel replaced with electric/propane/compressed natural gas can be any age
- Specific usage requirements for each unit type (hours/miles operated over the last two years)

UNIT REPLACEMENT FUNDING PERCENTAGES (SEE RFP FOR OTHER PROJECT FUNDING PERCENTAGES)

Eligible Technologies – Vehicle or Equipment Replacement	DERA Funding Limits	Minimum Mandatory Cost-Share
Drayage Truck Replacement	50%	50%
Vehicle or Equipment Replacement with EPA Certified Engine (existing engine model year 2009 or older only)	25%	75%
Vehicle or Equipment Replacement with CARB Certified Low NO _x Engine (such as propane or compressed natural gas)	35%	65%
Vehicle or Equipment Replacement with Zero-tailpipe Emission Power Source (such as battery electric vehicles)	45%	55%
Eligible Technologies – Engine Replacement	DERA Funding Limits	Minimum Mandatory Cost-Share
Engine Replacement with EPA Certified Engine	40%	60%
Engine Replacement with CARB Certified Low NO _x Engine (such as propane or compressed natural gas)	50%	50%
Engine Replacement with Zero-tailpipe Emission Power Source (such as battery electric)	60%	40%

EXAMPLE PROJECTS (AND POSSIBLE FUNDING %)

- Replacing a school bus with an electric school bus (45%)
- Installing electrified parking spaces at a truck stop so drivers can turn off engines over night (30%)
- Replacing diesel transit buses with compressed natural gas transit buses (35%)
- Replacing general maintenance truck's diesel **engine** with propane **engine** (50%)
- Replacing a diesel water pump with a grid-powered water pump (45%)
- Replacing an old diesel school bus with a newer, cleaner diesel school bus (25%)
- Replacing old diesel **engines** in a marine vessel with newer, cleaner **engines** (40%)
- Replacing an old diesel plow truck with a newer, cleaner diesel plow truck (25%)
- Replacing an old diesel wheeled loader with a newer, cleaner diesel wheeled loader (25%)

ALERT [Get the latest Coronavirus COVID-19 update at https://www.covid19.nh.gov](https://www.covid19.nh.gov)



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Business and Community

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Resource Center

Events

- Business Resources
- Municipal Resources
- Greening Your Business
- Licenses and Certification
- Asset Management
- Loans and Grants**
- Public Water Systems
- Fuel Storage Tanks
- Education Resources

How Can We Help You Today?

I want to.....

select an option



Helpful Links

select an option



Loans and Grants

NHDES administers several loan and grant programs. NHDES programs also assist groups in obtaining funding for projects from myriad sources. Find a funding source for your project here.



Aquatic Resource Mitigation Fund



Clean Water State Revolving Fund



Coastal Resilience Grants



Drinking Water-Related Grants



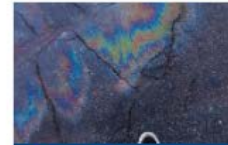
Drinking Water State Revolving Fund



Drinking Water & Groundwater Trust Fund



Household Hazardous Waste Collection Grants



Petroleum Reimbursement Fund



PFAS Remediation Loan Fund



Pesticide Management Grants



State Clean Diesel Program



Used Oil Collection Grants



Volkswagen Mitigation Trust



Waste Cleanup and Management Grants



Wastewater State Aid Grants



Watershed Assistance Grants

New Hampshire State Clean Diesel Program

DERA grant program aims to reduce emissions from older diesel engines.



The New Hampshire Clean Diesel Grant Program is a program funded by EPA through the Diesel Emissions Reduction Act (DERA). The program is managed by the Air Resources/Technical Services Bureau of NHDES. The goal of this grant program is to reduce the emissions from older diesel engines in the state. Projects eligible for funding include idle reduction technologies, engine replacement, vehicle and equipment replacement, exhaust controls, and aerodynamic technologies. Funding opportunities are guided each year by our annual DERA work plan. See the [2021 NHDES Work Plan](#).

Grant funding requires a match by the grantee; the match requirement depends on the project (i.e. replacing a diesel vehicle with an electric vehicle requires a 55% match, replacing an old diesel vehicle with a newer, cleaner diesel vehicle requires a 75% match, etc.).

Funding for this program is made possible through funding from the Environmental Protection Agency's (EPA) Diesel Emission Reduction Act (DERA) Program, and additional funding from the New Hampshire VW Mitigation Trust. This program is a reimbursement program only.

Open Funding Opportunity

November 1, 2021 - Request for Proposals

NHDES requests proposals for eligible diesel emission reduction projects utilizing EPA DERA federal fiscal year 2021 funds. Timelines, funding amounts, eligibility restrictions and more can be found in the [Request for Proposals](#) link below.

- [Request for Proposals \(RFP\)](#)
- [Appendix A: Project Proposal Form](#)
- [Appendix B: EPA's 2021 DERA State Grants Program Guide](#)
- [Appendix C: Scoring Criteria](#)
- [Frequently Asked Questions \(FAQ\)](#)

The designated contact person for this RFP is Ricky DiCillo, Grants Coordinator, NHDES – Air Resources Division. Any questions related to this RFP must be submitted by email to richard.a.dicillo@des.nh.gov.

Past Funding

Scoring Results and Funding Amounts:

- [February 8, 2021 Request for Proposals - Round 1](#)
- [October 1, 2020 Request for Proposals - Round 1](#)
- [October 1, 2020 Request for Proposals - Round 2](#)

Recent Grant Recipients:

- [EPA Grant 00A00003 \(FFY 2015-2016\)](#)
- [EPA Grant 00A00032 \(FFY 2017-2018\)](#)
- [EPA Grant 00A00175 \(FFY 2019-present\)](#)

EPA also offers competitive grants separate from NH's State Clean Diesel Program. For more information about these grants please go to [EPA's DERA](#) webpage.

TECHNICAL-SERVICES

TIM WHITE

Supervisor

Email Address: timothy.white@des.nh.gov

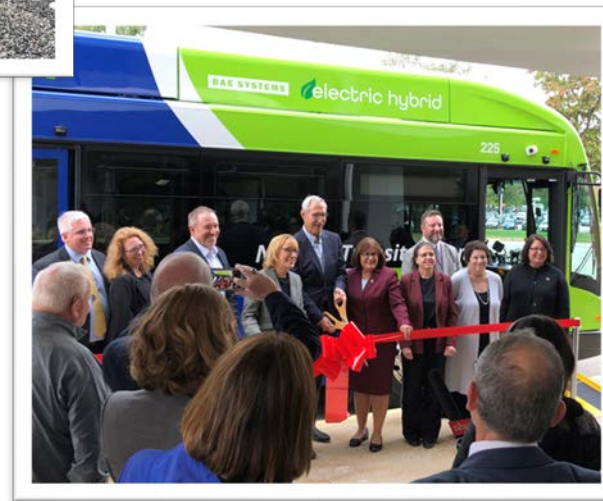
Phone: (603) 271-5552

CONTACT AND LOGISTICS

- Designated Contact Person:
 - Ricky DiCillo
 - Grants Coordinator
 - Richard.a.dicillo@des.nh.gov
 - Please email your questions!
- Find details etc. at the NHDES DERA webpage
 - <https://www.des.nh.gov/business-and-community/loans-and-grants/dera>
- Submissions due December 17, 2021 at 4 PM
- Email submissions to contact person
- Selected projects need to be approved by G&C before proceeding
- Approved projects must be completed by September 30, 2022
- Reimbursement amount based on cost share percentages, which differ per project



Granite State Clean Cities Coalition



Alternative Fuels Data Center

FUELS &
VEHICLES

CONSERVE
FUEL

LOCATE
STATIONS

LAWS &
INCENTIVES

Maps & Data

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Fuels & Vehicles ►



afdc.energy.gov

Tools & Resources

- AFDC Vehicle Search Tool:
 - <https://afdc.energy.gov/vehicles/search/>
- AFLEET – Calculate Cost of Ownership:
 - <https://greet.es.anl.gov/afleet>
- AFDC Laws & Incentives:
 - <https://afdc.energy.gov/>
- AFDC Case Studies:
 - <https://afdc.energy.gov/case/>

The screenshot displays the Alternative Fuels Data Center (AFDC) website. The top navigation bar includes links for FUELS & VEHICLES, CONSERVE FUEL, LOCATE STATIONS, LAWS & INCENTIVES, Maps & Data, Case Studies, Publications, Tools, About, and Home. A search bar is located in the top right corner.

The main content area features the "Alternative Fuel and Advanced Vehicle Search" tool, which allows users to find and compare alternative fuel vehicles (AFVs), engines, and hybrid/conversion systems. It includes a "Download a complete list" button for Light-Duty Vehicles and All Vehicles.

Below the search tool, there are two sections: "Vehicles by Type" and "Vehicles by Manufacturer". The "Vehicles by Type" section lists various vehicle types with corresponding icons: Sedan/Wagon, Pickup, SUV, Van, Step Van, Vocational/Cab Chassis, Street Sweeper, and Refuse. The "Vehicles by Manufacturer" section includes dropdown menus for Light-Duty and Medium- and Heavy-Duty vehicles, along with a "SEARCH" button.

At the bottom, there is a section titled "Engines and Hybrid/Conversion Systems" for medium- and heavy-duty vehicles. Below this, there is a case study titled "Massachusetts School Fleets Get Answers through Electric Bus Testing" dated July 17, 2020. The case study includes a quote from Brian Foulds, Concord Public School District, and a photograph of a yellow electric school bus. The case study details a \$2 million pilot project funded through the Regional Greenhouse Gas Initiative, which allowed three school districts to purchase Type C electric school buses and Level 2 bidirectional vehicle-to-grid (V2G) charging stations to test the technology in cold weather environments. The project included \$400,000 grants for Amherst Regional Public School District (Amherst), Cambridge Public School District (Cambridge), and Concord Public School District (Concord) to invest in the vehicles and electric vehicle supply equipment (EVSE). Combined, the three buses traveled approximately 14,000 miles and provided transportation for 279 days. Though the pilot has ended, the school districts still operate the electric buses and DOER continues to evaluate their

Project at a Glance

- Fleet Type: School buses
- Fuel: Battery electric
- Number of Buses: 3; 1 per participating school district
- Motivation: Lower emissions and cleaner air for student health

Technical & Problem Solving Assistance



Technical Response Service

- **First-level** resource for stakeholders
- Research and respond to general inquiries
- Help with challenging questions
- Education for legislators and government officials.



Tiger Teams

- **Second-level** resource for coordinators and stakeholders
- Expert technical problem-solving to overcome obstacles
- Assistance on barriers that challenge local resources
- Help at any point in the project/product life cycle (concept, development, execution, operation/maintenance, closure)

MD & HD Electric Vehicle Webinar Recordings

**Find them:
GSCCC Website /
Happenings /
Events Calendar**

Webinar #1 – July 22

“Avoiding Pitfalls: Planning Strategies & Solutions”

Webinar #2 - September 16

“Municipal & Commercial EVs: What’s Here, What’s Coming – Part I”

- **Ford Motor Company, XL Fleet, Lightning Motors & Motiv Power Systems**

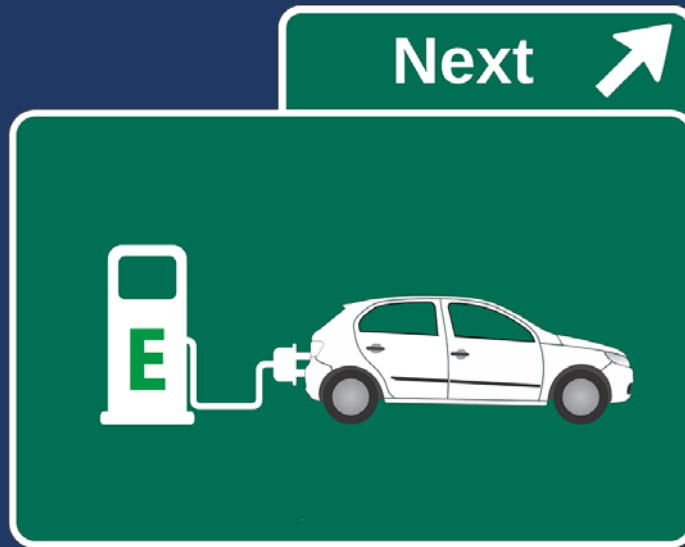
Webinar #3 – September 30

“Municipal & Commercial EVs: What’s Here, What’s Coming – Part II”

- **Orange EV, Global Environmental Products, Endera Motors & Lion Electric**

Webinar #4 – October 21

“Electric School & Transit Buses: Options & Opportunities”



Jessica Wilcox, GSCC Coordinator
Email: Jessica.Wilcox@des.nh.gov

www.granitestatecleancities.nh.gov

Thank you!

CONTACT AND LOGISTICS

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