

# NH STATE CLEAN DIESEL PROGRAM FY22 OVERVIEW

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- 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>



## PROGRAM BASICS



- Anticipated available funding pool: \$1,400,000
- Reimbursement projects to reduce diesel emissions
  - E.g. replace diesel units, upgrade diesel units, install idle reduction technology
- On-road/highway vehicles, non-road diesel equipment, locomotives, marine vessels, and, diesel engines!
- Open to most fleets/owners (public and private)
- Program is available now!
- First Round Proposals due September 9<sup>th</sup> at 4:00 PM
  - Round 2 due 11/1/22 and Round 3 due 1/1/23, if funding remains after previous round.

## BACKGROUND & FUNDING

EPA has provided annual funding through the Diesel Emissions Reduction Act (DERA)

New Hampshire Volkswagen Beneficiary Trust funds match DERA funds to unlock bonus DERA funds

Leftover funds from FY21 added to this year's funding

Anticipated funds: approximately \$1,400,000\*

- \*NHDES does not anticipate receiving FY22 funds until October

Purpose: to improve NH's air quality—for human health and for the environment—by reducing diesel emissions of NO<sub>x</sub>, PM<sub>2.5</sub>, and CO<sub>2</sub>. 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.

# TWO MAJOR CATEGORIES OF PROJECTS

## Vehicle/Engine/Equipment Upgrades

Replace old diesels (2009 or older) with new diesels

Replace diesels (any age) with propane\*, CNG\*, or electric

Replace engines in marine vessels

Rebuild locomotives

And more!

## Installing stationary plug-ins for idle reduction

Electric truck stops/parking spaces

Shore plug-in for marine vessels

Plug-ins for locomotives



\*Must be certified  
Low-NOx



# EXAMPLE PROJECTS

- Replace **school buses** with electric school buses
- Replace old diesel **plow truck** with new diesel plow truck
- Replace old diesel **wheeled loader** with new diesel wheeled loader
- Replace diesel **refuse trucks** with CNG refuse trucks
- Replace old diesel **drayage trucks** with new diesel drayage trucks
- Replace diesel engines in a **fishing boat**
- Rebuild **locomotive** engine
- Install electric parking spaces at a **truck stop**
- Replace a diesel-powered **freight crane** with a crane plugged directly into the grid



# SOME RESTRICTIONS TO KEEP IN MIND WHEN CONSIDERING

## Eligibility Restrictions



On-road diesel vehicles? Must be Class 5-8.



For a diesel-to-diesel swap, the old engine must be EMY 2009 or older.

- No age restriction for electric, or low-NOx propane/CNG.



Must be in regular usage (specific hour/mile usage for each kind of unit).



If you replace a diesel unit, it must be scrapped after you get the new one.

## Administration Restrictions



Funding % is based on project type (details next slide).



Funds are only reimbursed AFTER project is completed.



Projects must be completed no later than Sept 30, 2023.\*

- \*Extensions are possible, but not guaranteed.



Cannot start project until **after** G&C approval. Any funds expended before then will not be reimbursed.

Sample of Project Categories (non-exhaustive)	Max Grant %	Min Cost-Share	Example Project and Total Eligible Cost	Example Grant %
Drayage Truck Replacement	50%	50%	Replace 2 2007 trucks, \$100,000 for each truck = \$200,000	NHDES may reimburse up to \$100,000 (50% of cost)
Replace 2009 or older vehicle/equipment with EPA certified diesel	25%	75%	Replace an EMY 2004 municipal plow/dump truck, \$120,000	NHDES may reimburse up to \$30,000 (25% of cost)
Replace vehicle/equipment with low-NOx propane or CNG	35%	65%	Replace 4 2013 refuse trucks with CNG trucks, \$300,000 each truck = \$1,200,000	NHDES may reimburse up to \$420,000 (35% of cost)
Replace vehicle/equipment with electric (plus charger!)	45%	55%	Replace 2 2010 school buses with EV buses, \$370,000 each = \$740,000 2 AC chargers (1 per vehicle) = \$3,000 Total = \$746,000	NHDES may reimburse up to \$335,700 (45% of cost)
Replace 2009 or older <b>engine</b> with EPA certified diesel	40%	60%	Replace 2 1985 propulsion engines in a fishing boat, \$50,000 each = \$100,000	NHDES may reimburse up to \$40,000 (40% of cost)
EPA Verified Electrified Parking Space Technologies	30%	70%	Install TSE pedestals at a truck stop; total eligible cost = \$200,000	NHDES may reimburse up to \$60,000 (30% of cost)

Criteria	Points
<b>A. Cost Effectiveness of Emissions Reductions</b> Calculated using EPA's Diesel Emission Quantifier (DEQ) or Shore Power Emissions Calculator (for marine shore power projects only) and based upon the estimated lifetime emission reductions <sup>1</sup> of NO <sub>x</sub> and PM <sub>2.5</sub> .	45
<b>B. Percent Operation in NH</b> Based on hours of operation or miles traveled within NH.	20
<b>C. Project Benefits an Environmental Justice Community or Population</b> Evaluated using EPA's EJScreen mapping tool for areas most affected by project's proposed emissions reductions (e.g. areas of operation, corporate offices, and lots/depots).	10
<b>D. Greenhouse Gas Emission Reductions</b> Calculated using the DEQ's or Shore Power Emissions Calculator (for marine shore power projects only) estimated lifetime reduction <sup>1</sup> of CO <sub>2</sub> emissions.	10
<b>E. Clarity of Proposal &amp; Potential for Success</b> Based on clarity of application materials, applicant's experience with similar projects, and potential for successful completion of project on time and on budget.	10
<b>F. Project Benefits an Area Populated by Sensitive Receptors</b> Affected unit(s) operates a significant amount of time near groups of people disproportionately impacted by exposure to air pollution (e.g. children, the elderly, populations with underlying health issues).	5
<b>TOTAL</b>	<b>100</b>
Bonus Criteria	Points
<b>G. Replacement with Alternative Fuel</b> Up to 25 points awarded for electric; up to 15 points for compressed natural gas, propane, and plug-in hybrid electric.	25
<b>H. Government Entity</b> Whether or not the unit(s)/technology is owned by a municipality, state agency, school district, or state college/university or will be operated under a contract with one of these entities for no fewer than eight years following the effective date of the project.	10
<b>I. Additional Benefits</b> Other benefits created by project, including water quality, noise reduction, a plan to showcase the project, leveraging the project for future projects, environmental benefits beyond air quality, and more.	5

SCORING IS BASED  
ON THESE CRITERIA

BONUS POINTS ARE  
AVAILABLE!



# ESTIMATED TIMELINE

Date	Event
July 15, 2022	RFP and supporting documents published Application period open – interested parties may send proposals
August 9, 2022, 10:00 AM Eastern	WEBINAR: Overview and Q&A
September 9, 2022, 4:00 PM Eastern	Application period closes for Round 1
October 1, 2022 (approx.)	NHDES notifies selected projects to develop contracts
November 1, 2022, 4:00 PM Eastern	Application period closes for Round 2*
December 1, 2022 (approx.)	NHDES notifies selected projects from Round 2* to develop contracts
January 1, 2023, 4:00 PM Eastern	Application period closes for Round 3
February 1, 2023 (approx.)	NHDES notifies selected projects from Round 3* to develop contracts
G&C Approval (variable timing)	Projects may begin
September 30, 2023**	All projects must be completed**
For 5 years after completion	Short usage reports every quarter (first 2 years) and year (last 3 years)

\*Round 2 and Round 3 contingent on available funding after previous round project selection.

\*\*Extensions are possible, but not guaranteed, and are contingent on EPA approval.

# HOW CAN WE HELP? CONTACT US!

## Granite State Clean Cities Coalition



Help with project development/  
fleet analysis



### Alternative Fuels Resources

- Database of vehicle/equipment options
- Cost of ownership calculators
- Case studies and usage reports
- Connections to alt fuel fleet managers & vendors



Workshops, webinars, meetings, and  
live demos of new technology

## NHDES



Technical support – accessing,  
understanding, and submitting proposal  
materials



Eligibility determination – not sure if your  
project could qualify? Ask!



Examples of past projects



Note: NHDES and GSCCC staff cannot  
advise on a project's likelihood of being  
selected for funding. For best results,  
contact us *early*.

# CONTACT INFO AND WEBSITE

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Recommended reading order:  
-Request for Proposals (read entirety)  
-EPA Program Guide (as referenced in RFP)  
-Proposal form (fillable document)

Webinar recording and FAQ doc also available!