2022-2023 Diesel Emissions Reduction Act (DERA) National Grants Notice of Funding Opportunity (NOFO)



Grant Webinar Information Session U.S. Environmental Protection Agency (EPA) Office of Transportation and Air Quality





Overview of the Diesel Emission Reduction Act (DERA) Program

2022-2023 DERA National Grant Program NOFO

Eligibility Requirements

Funding Restrictions

Application Evaluation Process

Next Steps on How to Apply and Resources

Important Dates and Summary

Overview of the Diesel Emission Reduction Act (DERA) Despite EPA's diesel engine and fuel standards for new engines, the nearly eight million legacy diesel engines already in use continue to emit large amounts of NOx and PM2.5, which contribute to serious public health problems, including asthma, lung cancer and various other cardiac and respiratory diseases.

The DERA program, originally authorized under the Energy Policy Act of 2005, was reauthorized in the Diesel Emission Reduction Act of 2010 and in the Consolidated Appropriations Act, 2021. DERA enables EPA to offer funding to accelerate the upgrade and turnover of legacy diesel fleets.

The DERA legislation emphasizes maximizing health benefits, serving areas of poor air quality, such as non-attainment areas for PM and ozone, and conserving diesel fuel.

DERA supports environmental justice by prioritizing emissions reductions in areas receiving disproportionate impacts, particularly from fleets operating in areas designated by the Administrator as poor air quality areas.



2022-2023 DERA National Grant Program **Overview**



EPA anticipates awarding approximately **\$115 million** in DERA funding under this FY22-FY23 National Notice of Funding Opportunity (NOFO) available at www.epa.gov/dera/national.

EPA anticipates that approximately **4-10** cooperative agreements will be made per each of EPA's ten regions, subject to the availability of funds, the quantity and quality of applications received, and other applicable considerations.

Eligible diesel vehicles, engines, and equipment may include buses, heavy-duty highway vehicles, marine engines, locomotives, and nonroad engines, equipment, or vehicles.

Applications are due **December 1, 2023 at 11:59 p.m. ET** via Grants.gov.



2022-2023 DERA National Grant Program NOFO Details





Eligible Applicants Who can apply?

Regional, state, local, tribal or port agency with jurisdiction over transportation or air quality; and Nonprofit organization or institution which

Represents or provides pollution reduction or educational services to persons or organizations that operate diesel fleets; or

Has, as its principal purpose, the promotion of transportation or air quality Public and private fleets can benefit through partnerships with eligible entities





Application Submission Limit

Each application may only request funding from one EPA regional office, as defined in the NOFO

Individual applications requesting EPA funding more than the amount specified in the NOFO will not be considered. Please see the NOFO for more information on EPA's ten regions.

Applicants cannot submit more than ten applications nationally

Applicants cannot submit more than two applications per EPA Region

If applicant is submitting multiple applications, each application must include a different project(s) and must be submitted separately. Applicants cannot include the same project(s) in multiple applications. If an applicant submits more than one application that requests funding for the same project, the applicant will be contacted prior to EPA review of any of the applications to determine which application(s) the applicant will withdraw from the competition.





How Much Funding is Available per Application?

Applicants must request funding from the EPA regional office which covers their geographic project location.

The geographic boundaries for each EPA regional office are defined in the NOFO.

Regional Funding Limits

- \$2,000,000 • Region 1:
- Region 2:
- Region 3:
- Region 4:
- Region 5:
- Region 6:
- Region 7:
- Region 8:
- Region 9:
- Region 10:

- \$3,500,000 \$3,500,000 \$2,500,000
 - \$4,000,000
- \$3,000,000
 - \$3,500,000
 - \$3,000,000
- \$4,500,000
- \$1,500,000





Eligible Vehicles, Engines & Equipment

May include, but are not limited to:

- Buses;
- Class 5 Class 8 heavy-duty highway vehicles;
- Marine engines;
- Locomotive engines; and
- Non-road engines, equipment or vehicles used in: Construction; Handling of cargo (including at a port or airport); Agriculture; Mining; or Energy production (including stationary generators and pumps)



Ownership, Usage, and Remaining Life

The existing vehicle must be fully operational.

The participating fleet owner must have owned and operated the vehicle during the 2 years prior to upgrade.

The existing vehicle must have at least 3 years of remaining life at the time of upgrade. Remaining life is the fleet owner's estimate of the number of years until the unit would have been retired from service if the unit were not being upgraded or scrapped because of the grant funding.

Highway Usage: 7,000 miles/year during 2 years prior to upgrade.

- •Mileage of two or more units may be combined to reach the thresholds where two or more units will be scrapped and replaced with a single unit.
- •If an applicant can demonstrate that a certified highway engine/vehicle is being used in a predominately nonroad application (e.g., firetrucks or utility trucks that idle for long periods to power auxiliary apparatus), engine operating hours as defined in "nonroad usage" may be used for application eligibility purposes.

Nonroad, Locomotive and Marine Usage:

- Agricultural Pumps: 250 hours/year during 2 years prior to upgrade.
- All Other Nonroad Engines: 500 hours/year during 2 years prior to upgrade.
- Locomotive and Marine Usage: 1,000 hours/year during 2 years prior to upgrade.

Documentation

Requirements: Participating fleet owners must attest to the ownership, usage, and remaining life requirements in a signed eligibly statement. The documentation is not required at the time of application, but is required if the project is selected for funding. A sample eligibility statement may be found at https://www.epa.gov/dera/ national#documents







DERA Funding Limit And Cost Share

Eligible Technologies	EPA Funding Limit	Mandatory Cost Share
Drayage Truck Replacement	50%	50%
Vehicle or Equipment Replacement with EPA Certified Engine	25%	75%
Vehicle or Equipment Replacement with CARB Certified Low NOx Engine	35%	65%
Vehicle or Equipment Replacement with Zero-tailpipe Emission Power Source	45%	55%
Engine Replacement with EPA Certified Engine	40%	60%
Engine Replacement with CARB Certified Low NOx Engine	50%	50%
Engine Replacement with Zero-tailpipe Emission Power Source	60%	40%
EPA Certified Remanufacture Systems	100%	0%
EPA Verified Highway Idle Reduction Technologies when combined with new or previously installed exhaust after-treatment retrofit	100%	0%
EPA Verified Highway Idle Reduction Technologies without new exhaust after-treatment retrofit	25%	75%
EPA Verified Locomotive Idle Reduction Technologies	40%	60%
EPA Verified Marine Shore Connection Systems	25%	75%
EPA Verified Electrified Parking Space Technologies	30%	70%
EPA Verified Exhaust After-treatment Retrofits	100%	0%
EPA Verified Engine Upgrade Retrofits	100%	0%
EPA Verified Hybrid Retrofit Systems	60%	40%
EPA Verified Fuel and Additive Retrofits when combined with new retrofit, upgrade, or	Cost differential between	Cost of conventional
replacement	conventional diesel fuel	diesel fuel
EPA Verified Aerodynamics and Low Rolling Resistance Tires when combined with new exhaust after-treatment retrofit	100%	0%
Alternative Fuel Conversion	40%	60%

SEPA

Project Eligibility

Medium and Heavy-Duty Truck, Transit Bus, and School Bus

Current Engine Model Year (EMY)	DOC +/- CCV	DPF	SCR	Verified Idle Reduction , Tires, or Aero- dynamics	Vehicle or Engine Replacement: EMY 2021+ (2017+ for Drayage)	Vehicle or Engine Replacement: EMY 2021+ Zero Emission ² or Low-NO _x ³	Clean Alternative Fuel Conversion
older - 2006	Yes	Yes	Yes	Yes	Yes	Yes	Yes
2007 - 2009	No	No	Yes	Yes ¹	Yes	Yes	Yes
2010 - newer	No	No	No	Yes ¹	No	Yes	Yes

¹Auxiliary power units and generators are not eligible on vehicles with EMY 2007 or newer. ²Eligible fuel cell projects are limited to hydrogen fuel cell engine replacements for eligible urban transit buses, shuttle buses and drayage trucks, and hydrogen fuel cell vehicle replacements for eligible urban transit buses, shuttle buses, and drayage trucks.

³ Please see the Low-NO_x Engine Factsheet found on the <u>DERA National Grants</u> website for guidance on identifying engines certified to meet CARB's Optional Low NO_x Standards.



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Project Eligibility

Nonroad Engine

	Vehicle/Equipment Replacement						
Current Engine Tier	Com	pression Ign	ition	Spark Ignition	Zero	Verified Retrofit	
	Tier 0-2	Tier 3-4i	Tier 4	Tier 2	Emission ³	netront	
Unregulated – Tier 2	No Yes ¹ Yes		Yes	Yes	Yes		
Tier 3	No	No	Yes	Yes	Yes	Yes	
Tier 4	No	No	No	No	Yes	No	
	Engine Replacement						
Current Engine Tier	Com	pression Ign	ition	Spark Ignition	Zero	Verified Engine Upgrade	
	Tier 0-2	Tier 3-4i	Tier 4	Tier 2	Emission ⁴		
Unregulated – Tier 2	No Yes ²		Yes	Yes	Yes	Yes	
Tier 3	No	No	Yes	Yes	Yes	Yes	
Tier 4	No No		No	No	Yes	No	

¹Tier 3 and Tier 4 interim (4i) allowed for vehicle/equipment replacement only when Tier 4 final is not yet available from OEM for 2021 model year equipment under the Transition Program for Equipment Manufacturers (TPEM).

²Tier 3 and Tier 4i engines may be used for engine replacement with approved best achievable technology analysis.

³Eligible fuel cell projects are limited to hydrogen fuel cell equipment replacements for eligible terminal tractors/yard hostlers, stationary generators, and forklifts.

⁴Fuel cell engine replacement is not eligible.



Project Eligibility – Marine Engine

				Engine & Vessel Replacement						
Engine Cate-	Engine Horse-	orse- Current Engine	Compression Ignition					Certified Re-	Verified	
gory	power Tier			Tier 1-2	Tier 3	Tier 4	Spark Ignition	Zero Emission ²	manufacture System ³	Engine Upgrade
C1, C2	<803	Un-regulated – Tier 2	No	Yes	No	Yes	Yes	Yes	Yes	
C1, C2	≥804	Un-regulated – Tier 2	No	Yes ¹	Yes	Yes	Yes	Yes	Yes	
C1, C2	<803	Tier 3	No	No	No	Yes	Yes	No	No	
C1, C2	≥804	Tier 3	No	No	Yes	Yes	Yes	No	No	
C1, C2	≥804	Tier 4	No	No	No	No	No	No	No	
C3	All	Un-regulated - Tier 2	No	Yes	No	No	No	No	No	
С3	All	Tier 3	No	No	No	No	No	No	No	

¹Tier 3 engines may be used for engine replacement with approved best achievable technology analysis. Over 800 HP, Tier 3 engines are not eligible for full vessel replacement.

²Fuel cell engine and vessel replacements are not eligible.

³Some marine engine projects may be subject to the restriction on mandated measures.





Project Eligibility – Locomotive Engine

Current	En	gine & Lo	comotive Repl	acement		Idle-	Certified Remanufacture System⁴	
Locomotive Tier	Tier 0–2+	Tier 3	Tier 4	Zero Emission ¹	Verified Retrofit	Reduction ² Technology		
Unregulated - Tier 2+	No	Yes ³	Yes	Yes	Yes	Yes	Yes	
Tier 3	No	No	Yes	Yes	Yes	Yes	Yes	
Tier 4	No	No	No	No	No	Yes	No	

¹Fuel cell engine and locomotive replacements are not eligible.

²Automatic engine start-stop technologies are only eligible to be installed on locomotives currently certified to Tier 0 or unregulated, subject to the restriction on mandated measures.

³Tier 3 engines may be used for engine replacement only if Tier 4 is demonstrated to not be available or feasible through a best achievable technology analysis as defined in Section III.D.2.b., below. Tier 3 is not eligible for locomotive replacement. ⁴Some locomotive engine projects may be subject to the restriction on mandated measures.





Best Achievable Technology

Applicants replacing nonroad, marine, and locomotive engines are expected to use Tier 4 engines if Tier 4 engines with the appropriate physical and performance characteristics are available.

Best Achievable Technology Analysis Requirements: If selected for funding, applicants will be required to submit a best achievable technology analysis to EPA for approval, as defined in the NOFO, before Tier 3 or Tier 4i engines can be purchased with grant funds.

The analysis must be prepared by the engine manufacturer or installer. Costs for engineering analysis may be included in the project budget.





Funding Restrictions

DERA funds cannot be used for the following activities, as defined in the NOFO

- Federal matching funds
- Expenses incurred prior to the project period
- Emissions testing
- Fueling infrastructure
- Federally mandated measures
- Leasing
- Fleet Expansion (i.e. scrappage is required)
- Replacement retrofit technologies

Eligible and ineligible project costs are further defined in the NOFO.





2022-2023 DERA Grant Program Application Evaluation Process





SEPA Application Evaluation Process



Step 1:

Threshold Criteria Review

Applicant must meet threshold criteria to move on to Step 2 □ Application submitted by deadline via Grants.gov.

- Applications must support Goal 1, "Tackle the Climate Crisis" Objective 1.1, "Reduce Emissions that Cause Climate Change," per EPA's Fiscal Year (FY) 2022-2026 Strategic Plan
- Applications which request EPA assistance funds above the applicable regional amounts specified in Section II.A. of this NOFO are not eligible and will not be reviewed.
- Applicants cannot submit more than two applications per EPA Region and ten applications nationally.
- Applications must meet requirements as defined in the NOFO to be considered eligible.

SEPA Application Evaluation Process



Step 2:

Evaluation Criteria

Applicants should explicitly address these criteria as part of their application package submittal in the project narrative, following the content requirements set forth in the NOFO.

Evaluation Criteria

Overall Project and Approach

Goods Movement

Environmental Justice and Disadvantaged Communities

Project Sustainability

Project Resilience to Climate Impacts

Workforce Development

Environmental Results

Programmatic Capability and Past Performance

Budget

Application Fleet Description

SEPA Application Evaluation Process



Step 3:

Selection and Notification

Anticipated Timing for Notification of Selection: March 2024 Applications will be reviewed by separate panels.

In making the final funding decisions, the EPA selection official may also consider geographic distribution, diversity of funds, number and size of awards, environmental benefits, applicability of different business models, and other Agency and programmatic priorities.

Selectees will be notified by telephone, e-mail or postal mail by U.S. Environmental Protection Agency.

Next Steps on How to Apply and Resources



Next Steps – How to Apply









□ For more information about the 2022-2023 DERA National Grant program and related funding opportunities, please visit at www.epa.gov/dera/national.

- Questions and Answers: EPA will respond to questions from individual applicants about the NOFO, including threshold eligibility criteria, administrative issues related to the submission of the application, and requests for clarification about any of the language or provisions in the announcement through a questions and answers document posted to the DERA webpage.
- □ The 2022-2023 DERA National Grants NOFO includes information on how to prepare and submit an application package. The application package must be received by 11:59 p.m. (ET) on December 1, 2023.
- Please refer to Appendix D in the NOFO for an Application Submission Checklist to ensure that all required materials are included in the application package.

□ Other Tools and Resources

- □ Application Documents List available at <u>www.epa.gov/dera/national</u>, including but not limited to, the <u>Applicant</u> <u>Fleet Sheet</u>, <u>Priority Area List</u>, <u>TRU Fact Sheet</u>, <u>Sample Scrappage Statement</u>, and <u>Sample Eligibility Statement</u>.
- □ CSB Technical Assistance: <u>www.epa.gov/cleanschoolbus/clean-school-bus-technical-assistance</u>
- □ Shore Power Calculator Tool is available online at <u>Shore Power Technology Assessment at U.S. Ports</u>
- Overview of the initial steps that an applicant must complete to apply for an EPA grant, including obtaining a Unique Entity Identifier (UEI) at SAM.gov and registering with Grants.gov. www.epa.gov/grants/how-registerapply-grants



2. Register your Organization with Grants.gov and SAM.gov

All EPA grant applications are submitted online. Applicants must be registered in two government systems to apply for EPA grants:

- The System for Award Management (**SAM.gov**) registers organizations to conduct business with the U.S. Government, which includes federal grants.
- **Grants.gov** is the official system for managing all federal grant applications.



These two systems share information. Together, they provide access to everything needed to identify federal grant opportunities and to complete the online application process.

Note: **Both systems are accessed through a single user account set up in Login.gov.** Creating a Login.gov account is easy. If you do not have a Login.gov account, you will be prompted to create one when you register with SAM.gov or Grants.gov. Learn more about Login.gov.

Application packages must be submitted to EPA via Grants.gov no later than 12/01/23 at 11:59 p.m. ET. For more information, please visit https://www.epa.gov/dera/national

Start Early: Completing the registration process usually takes a minimum of 10 business days. It can take much longer, especially if there are errors or inconsistencies in the information submitted.

2. Register your Organization with Grants.gov and SAM.gov

Register POC & Create Profile with UEI

Obtain Unique Entity Identifier (UEI)



Step 1. Register Your Organization in SAM.gov

- Applicants must register with SAM.gov to obtain a Unique Entity Identifier (UEI), which is a 12-character alphanumeric identifier assigned to each unique organization. There is no fee for registering with SAM.gov and registration must be renewed annually.
- Registration in SAM.gov requires providing assertions, representations and certifications, and other information so that the federal government can verify the existence and uniqueness of the organization. Go to the SAM.gov Entity Registration page to get started.
- Organizations will need to designate an E-Business
 Point of Contact (EBiz POC). After the information submitted through the registration process is authenticated, the EBiz POC will receive an email from SAM.gov indicating that the registration is active.

Step 2. Create a User Account and Applicant Profile in Grants.gov

After obtaining a UEI, an applicant must create a profile in Grants.gov in 2 steps:

GRANTS.GOV

- Create a user account in Grants.gov with the same email address used by the EBiz POC in SAM.gov.
- Create the applicant profile in Grants.gov using the UEI obtained from SAM.gov.

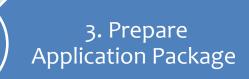
Step 3. Create Individual Grants.gov Accounts for Organization Members

Step 4. Learn How to Use Workspace in Grants.gov

For more detailed information visit:

www.epa.gov/grants/how-register-apply-grants





- □ SF-424, Application for Federal Assistance
- □ SF-424A, Budget Information for Non-Construction Programs
- EPA Form 4700-4, Pre-Award Compliance Review Report for All Applicants Requesting Federal Assistance
- EPA Form 5700-54, Key Contacts Form
- □ Application Narrative Attachment Form (not to exceed 14 pages)
 - Cover Page
 - U Workplan
 - □ 1. Project Summary and Approach
 - 2. Goods Movement
 - □ 3. Environmental Justice and Disadvantaged Communities
 - □ 4. Project Sustainability
 - □ 5. Project Resilience to Climate Impacts
 - □ 6. Workforce Development
 - 7. Environmental Results
 - □ 8. Programmatic Capability and Past Performance
 - 🛛 9. Budget
 - □ Applicant Fleet Description

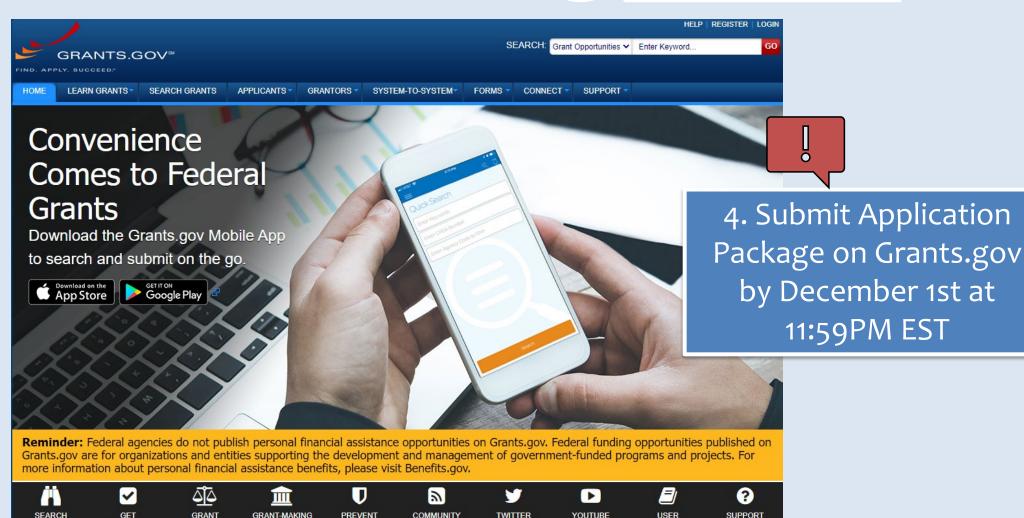
- Use "Other Attachments Form" for:
 - Applicant Fleet Sheet
 Emission Reduction
 Calculations
 - Partnership Letters, if Applicable
 - Mandated Measures
 Justification Supporting
 Information, if Applicable
 - ✤ Resumes, Optional



GRANTS

Next Steps

4. Submit Application Package on Grants.gov by December 1st at 11:59PM EST



GET GRANT **GRANT-MAKING** PREVENT COMMUNITY TWITTER YOUTUBE USER SUPPORT STARTED POLICIES SCAMS BLOG FEED VIDEOS GUIDE CENTER AGENCIES

Important Dates			
August 2, 2023	Notice of Funding Opportunity (NOFO) Opens		
August – October, 2023	Webinars on DERA National Grant Program More information can be found on the <u>www.epa.gov/dera/national</u> website under the 'Important Dates' section.		
November 10, 2023	Final Date to Submit Questions		
December 1, 2023 at 11:59 p.m. (ET)	NOFO Closes – Application Deadline Application packages must be submitted electronically to EPA through Grants.gov (www.grants.gov) no later than Friday, December 1, 2023, at 11:59 p.m. Eastern Time (ET) in order to be considered for funding		
March 2024	Anticipated Notification of Selection		
June to August 2024	Anticipated Awards		

Summary

2023 DERA NOFO

- Application packages must be submitted to EPA via Grants.gov no later than 12/1/23 at 11:59 p.m. ET.
- Dates and topics for future webinars are on our website under the 'Important Dates' section.

Resources

- EPA's DERA Program website
- The DERA helpline (dera@epa.gov)
- Copies of this presentation will be available at: https://www.epa.gov/dera/national

Stay in Touch

- View the full 2023 DERA Grant NOFO at www.epa.gov/dera/national
- If we are unable to answer your question at this time, we will list all questions and answers in questions and answers document posted to the DERA webpage available at: https://www.epa.gov/dera/national

Questions: Please type your questions into the question box at this time and we will address as many as possible.