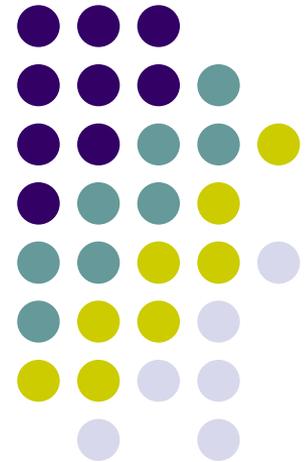


Clean Diesel Funding Assistance Program FY 2018

Information Session



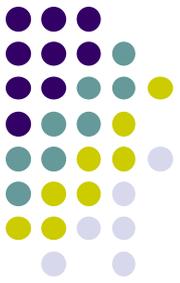
National Clean Diesel Campaign





Why Clean Diesel?

- As a result of EPA regulations, diesel engines manufactured today are cleaner than ever before.
- But because diesel engines can operate for 30 years or more, millions of older, dirtier engines are still in use.
- Reducing exposure to diesel exhaust from these engines is especially important for human health and the environment.



Available DERA programs



National Grants

- [2018 Request for Proposals \(RFP\)](#) **OPEN**
- [Awarded grants](#)
- [Past RFPs and documents](#)



Rebates

- [School bus rebates](#)
- [2012-2017 school bus recipients](#)



Tribal Grants

- [Request for Proposals](#)
- [Awarded grants](#)



State Allocations

- [Eligibility and forms](#)
- [2017 allocations & state agencies](#)
- [2012-2016 allocations 2012-2016](#)
- [2008-2011 allocations 2008-2011](#)



National Grants Basic Info

- \$1.5M available in Region 1
- Maximum federal contribution per project \$1M
- Proposals due Tuesday, June 12, 2018
- Proposals must be submitted electronically via www.grants.gov
- RFP available at www.epa.gov/cleandiesel/clean-diesel-national-grants#rfp
- Submission instructions in Section IV of RFP

Eligible Entities (Section III.A)



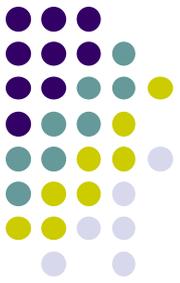
- Regional, state, local, tribal or port agency with jurisdiction over transportation or air quality; and
- Nonprofit organization or institution which
 - Represents or provides pollution reduction or educational services to persons or organizations that operate diesel fleets; or
 - Has, as its principle purpose, the promotion of transportation or air quality
- For-profits and individuals can benefit through partnerships with eligible entities

Proposal Submission Limit



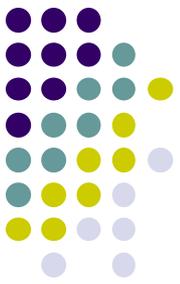
- Applicants may submit no more than THREE proposals nationally
- A single proposal may target multiple fleets, fleet types and/or diesel emission reduction solutions. An applicant cannot submit two proposals that request funding for the same project (i.e. the same target fleet or group of fleets).
- 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 Section IV.A of the RFP.

Eligible Vehicles, Engines & Equipment (Section I.B.1)



- May include, but are not limited to
 - Buses;
 - Class 5 – Class 8 heavy-duty highway vehicles;
 - Marine engines;
 - Locomotives 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)

Eligible Projects (Section I.B.2)



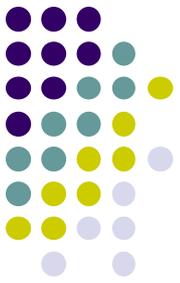
- Verified Exhaust Control Technologies
- Verified/Certified Engine Upgrades and Remanufacture Systems
- Verified Cleaner Fuel Use
- Verified Idle Reduction Technologies
 - Auxiliary Power Units, Fuel Operated Heaters, etc.
 - Also includes locomotive and marine shore connection systems and electrified parking spaces
- Verified Aerodynamic Technologies & Low Rolling Resistance Tires
 - Trailer side skirts, trailer gap reducers, tires, etc.
- Certified Engine Replacement
- Vehicle and Equipment Replacement
- Certified Clean Alternative Fuel Conversion

Project Funding Percentage (Section I.B.2)



- Exhaust Controls - up to 100% of the cost
 - Diesel Oxidation Catalysts, Diesel Particulate Filters, etc.
- Engine Upgrades and Remanufacture Systems - up to 40% of the cost
- Cleaner Fuels - cost differential between conventional fuel and cleaner fuel
 - EPA will NOT fund stand alone cleaner fuel use

Project Funding Percentage (Section I.B.2)



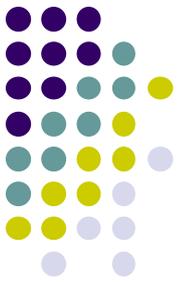
- Verified Idle Reduction Technologies
 - Locomotive idle reduction up to 40% of the cost
 - Marine shore power connection systems up to 25% of the cost
 - Electrified parking spaces (truck stop electrification) up to 30% of the cost
 - Idle reduction technologies on school buses or long-haul Class 8 trucks up to 25% of the cost

Project Funding Percentage (Section I.B.2)



- Verified Aerodynamic Technologies (Aero) and Low Rolling Resistance Tires (Tires)
 - EPA will NOT fund stand-alone Aero and/or Tires projects
 - If Aero and/or Tires are combined on the same vehicle with a verified exhaust control technology funded under this RFP, EPA will fund up to 100% of the cost of all technologies
 - Example: Low Rolling Resistance Tires AND Diesel Particulate Filter on a truck

Project Funding Percentage (Section I.B.2)



- **Engine Replacement: Locomotive, Marine, and Nonroad Vehicles and Equipment:**
 - EPA will fund up to 40% of the cost (labor and equipment) of a 2018 model year or newer engine certified to EPA emission standards. (Previous engine model year engines may be used if the engine is certified to the same emission standards applicable to the engine in 2017.)
 - EPA will fund up to 60% of the cost (labor and equipment) of replacing a diesel engine with zero emission power source.

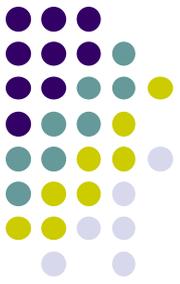
Project Funding Percentage (Section I.B.2)



- **Engine Replacement: Highway Diesel Vehicles:**
 - EPA will fund up to 40% of the cost (labor and equipment) of a 2018 model year or newer engine certified to EPA emission standards.
 - EPA will fund up to 50% of the cost (labor and equipment) of a 2018 model year or newer engine that is certified to CARB's Optional Low-NOx Standard.
 - EPA will fund up to 60% of the cost (labor and equipment) of replacing a diesel engine with a zero emission power source.

Hydrogen fuel cells are only eligible for engine replacements for eligible urban transit buses, shuttle buses, and drayage trucks as defined in this RFP.

Project Funding Percentage (Section I.B.2)



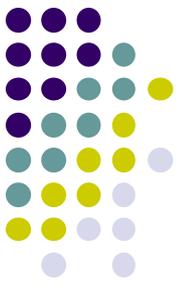
- **Replacement of Locomotive and Nonroad Vehicles and Equipment:**

- EPA will fund up to 25% of the cost of a replacement vehicle or piece of equipment powered by a 2018 model year or newer engine certified to EPA emission standards.

- EPA will fund up to 45% of the cost of a new, zero emission nonroad vehicle or piece of equipment.

Hydrogen fuel cell equipment are only eligible as replacements for eligible terminal tractors/yard hostlers, stationary generators, and forklifts as defined in this RFP.

Project Funding Percentage (Section I.B.2)



- **Replacement of Highway Vehicles (other than drayage):**
 - EPA will fund up to 25% of the cost of a replacement vehicle powered by a 2018 model year or newer engine certified to EPA emission standards.
 - EPA will fund up to 35% of the cost of a replacement vehicle powered by a 2018 model year or newer engine certified to meet CARB's Optional Low-NOx Standard.
 - EPA will fund up to 45% of the cost of new, zero emission replacement vehicle.
- **Replacement of Drayage Trucks:**
 - EPA will fund up to 50% of the cost of a replacement drayage truck powered by a 2013 model year or newer certified engine.

Hydrogen fuel cell vehicles are only eligible as replacements for eligible transit buses, shuttle buses, and drayage trucks as defined in this RFP.

Project Funding Percentage (Section I.B.2)



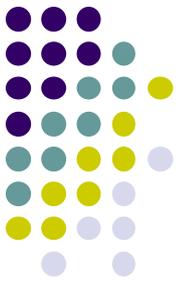
- **Clean Alternative Fuel Conversion**
- Funding can cover up to 40% of the cost (labor and equipment) of an eligible certified or compliant clean alternative fuel conversion.
- Eligible conversions are those certified by EPA and/or CARB, and those systems deemed compliant by EPA for Intermediate-Age engines.
- EPA's lists of "Certified Conversion Systems for New Vehicles and Engines" and compliant "Conversion Systems for Intermediate-Age Vehicles and Engines" are available at www.epa.gov/vehicle-and-engine-certification/lists-epa-compliant-alternative-fuel-conversion-systems; CARB's list of "Approved Alternate Fuel Retrofit Systems" are available at: www.arb.ca.gov/msprog/aftermkt/altfuel/altfuel.htm.
- Eligible conversion systems for EMY1995-2006 must achieve at least a 30% NOx reduction and a 10% PM reduction from the applicable certified emission standards of the original engine.
- Eligible conversion systems for EMY 2007-2009 must achieve at least a 20% NOx reduction with no increase in PM from the applicable certified emission standards of the original engine.

Funding Restrictions (Section III.D)



- Nonroad: Horsepower increases of more than 25 percent will require specific approval by EPA prior to purchase, and the applicant may be required to pay the additional costs associated with the higher horsepower equipment.
- Highway: The replacement vehicle must not be in a larger weight class than the existing vehicle (Class 5, 6, 7, or 8). The engine's primary intended service class must match the replacement vehicle's weight class (i.e. a LHD diesel engine is used in a vehicle with GVWR 16,001 – 19,500 pounds, a MHD diesel engine is used in a vehicle with a GVWR of 19,501 – 33,000 pounds, and an HHD diesel engine is used in a vehicle with a GVWR greater than 33,000 pounds.) Exceptions may be granted for vocational purposes, however the GVWR must stay within 10 percent of the engine's intended service class and any exceptions will require specific EPA approval prior to purchase.

Funding Restrictions (Section III.D)



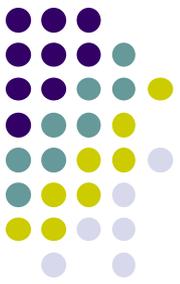
- The engine and/or vehicle or equipment being replaced must be scrapped or rendered permanently disabled within 90 days of being replaced.
- Engine and/or vehicle replacements that would have occurred through normal attrition within 3 years of the project start date are considered to be the result of normal fleet turnover and are not eligible for funding under this program.

Funding Restrictions (Section III.D)



- Nonroad equipment that operate less than 500 hours/year are NOT eligible (engine hours may be combined to reach the 500-hour threshold where two engines will be scrapped and replaced with a single engine).
- Locomotives and Marine engines that operate less than 1000 hours/year are NOT eligible (engine hours may be combined to reach the 1000-hour threshold where two engines will be scrapped and replaced with a single engine).
- Minimum usage requirements for marine and locomotive shore connection systems

Funding Restrictions (Section III.D)



- **Medium and Heavy-Duty Trucks, Transit Buses, and School Buses**

Current Engine Model Year (EMY)	DOC +/- CCV	DPF	SCR	Verified Idle Reduction, Tires, or Aerodynamics	Vehicle or Engine Replacement: EMY 2018+ (2013+ for Drayage)	Vehicle or Engine Replacement: Zero Emission	Clean Alternative Fuel Conversion
older - 1995	No	No	No	No	No	No	No
1996 - 2006	Yes	Yes	Yes	Yes	Yes	Yes	Yes
2007 - 2009	No	No	Yes	Yes*	No	Yes	Yes
2010 - newer	No	No	No	No	No	No	No

* Auxiliary Power Units and generators are not eligible on vehicles with EMY 2007 or newer.



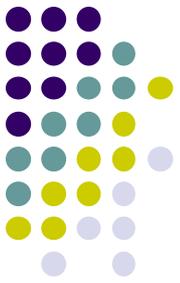
Nonroad Engine Funding Restrictions (Section III.D)

Current Engine Horsepower	Current Engine Model Year (EMY) and Tier	Vehicle/Equipment Replacement: EMY 2018+					Verified Exhaust Control
		Compression Ignition			Spark Ignition	Zero Emission	
		Tier 0-2	Tier 3-4i	Tier 4	Tier 2		
0-50	2006 and Newer; Unregulated – Tier 2	No	No	Yes	Yes	Yes	Yes
51-300	1996 and Newer; Tier 0 – Tier 2	No	Yes*	Yes	Yes	Yes	Yes
51-300	1996 and Newer; Tier 3	No	No	Yes	Yes	Yes	Yes
301+	1986 and Newer; Tier 0 – Tier 2	No	Yes*	Yes	Yes	Yes	Yes
301+	1986 and Newer; Tier 3	No	No	Yes	Yes	Yes	Yes
Current Engine Horsepower	Current Engine Model Year (EMY) and Tier	Engine Replacement: EMY 2018+**				Verified Engine Upgrade	
		Compression Ignition		Spark Ignition	Zero Emission		
		Tier 0-3	Tier 4	Tier 2			
0-50	2006 and Newer; Unregulated – Tier 2	No	Yes	Yes	Yes	Yes	
51-300	1996 and Newer; Tier 0 – Tier 3	No	Yes	Yes	Yes	Yes	
301-750	1986 and Newer; Tier 0 – Tier 3	No	Yes	Yes	Yes	Yes	
751+	1986 and Newer; Tier 0 – Tier 2	No	Yes	Yes	Yes	Yes	

*Tier 3 and Tier 4 interim (4i) allowed for vehicle/equipment replacement only when Tier 4 final is not yet available from OEM for 2018 model year equipment under the Transition Program for Equipment Manufacturers (TPEM).

**Previous engine model year engines may be used for engine replacement if the engine is certified to the same emission standards applicable to EMY 2018.

Funding Restrictions (Section III.D)



- Marine Engines

Current Engine Tier	Engine Replacement: EMY 2018+ *				Certified Remanufacture System	Verified Engine Upgrade
	Compression Ignition		Spark Ignition	Zero Emission		
	Tier 1-2	Tier 3-4				
Unregulated – Tier 2	No	Yes	Yes	Yes	Yes	Yes
Tier 3 - 4	No	No	No	No	No	No

*Previous engine model year engines may be used if the engine is certified to the same emission standards applicable to EMY 2018.

- Locomotives

Current Locomotive Tier	Locomotive Replacement or Engine Replacement: EMY 2018+* or Zero Emission			Verified Exhaust Control	Idle-Reduction Technology	Certified Remanufacture System
	Tier 0+ - 3	Tier 4	Zero Emission			
Unregulated - Tier 2	No	Yes	Yes	Yes	Yes**	Yes
Tier 2+ switcher	No	Yes	Yes	Yes	Yes**	Yes
Tier 2+ line haul	No	No	No	Yes	Yes**	Yes
Tier 3 – Tier 4	No	No	No	No	No	No

*Previous engine model year engines may be used if the engine is certified to the same emission standards applicable to EMY 2018.

**Automatic Engine Start-Stop technologies are only eligible to be installed on locomotives currently certified to Tier 0 or unregulated.

Funding Restrictions (Section III.D)



- **Restriction for Mandated Measures:** No funds awarded under this RFP shall be used to fund the costs of emission reductions that are mandated under federal law.
 - EPA’s locomotive and marine rule, “Control of Emissions of Air Pollution from Locomotives and Marine Compression-Ignition Engines Less than 30 liters per Cylinder”
 - EPA’s RICE rule, “National Emission Standards for Hazardous Air Pollutants (NESHAP) for Stationary Reciprocating Internal Combustion Engines (40 CFR Part 63 Subpart ZZZZ)”

Restriction for Mandated Measures Con't



- Proposals which include locomotives and/or marine engines and/or stationary engines must include a clear and concise justification for why/how the proposed emission reductions are not subject to the Restriction for Mandated Measures under this RFP. The justification must clearly demonstrate that:
 - the target engines are exempt from the requirements of the rule; and/or
 - emission reductions funded with EPA funds will be implemented prior to the effective date of any applicable requirements under the rule; and/or
 - emission reductions funded with EPA funds will not be used to satisfy any applicable requirements under the rule, but instead are in excess of (above and beyond) those required by the applicable mandate.

Proposal Submission



- Submit proposals electronically via www.grants.gov
- If not currently registered with Grants.gov, designate an Authorized Organization Representative (AOR) and begin the registration process as soon as possible.
- The registration process requires that your organization have a DUNS number and a current registration with the System for Award Management (SAM) and the process of obtaining both could take several weeks.



Potential Pitfalls

- Grants.gov issues
 - CREATE AN ACCOUNT NOW
 - the registration process requires that your organization have a DUNS number and a current registration with the System for Award Management (www.SAM.gov).
 - Grants.gov now requires users to sign up for and use their “Workspace” feature when applying for opportunities.
 - SUBMIT EARLY – late applications will not be accepted.
 - Minor problems with application submittal are NOT uncommon. Grants.gov offers 24-hour support, however some issues may take a few days to resolve.
 - See Appendix A for full grants.gov instructions

Tools and Resources



- Supporting Information for RFP can be found at:
www.epa.gov/cleandiesel/clean-diesel-national-grants#rfp
 - Applicant Fleet Description
 - Project Narrative Sample Format
 - Priority County and Area List
- Diesel Emissions Quantifier (DEQ)
 - Can be used to show expected project results, cost-effectiveness
www.epa.gov/cleandiesel/diesel-emissions-quantifier-deq
- Additional Resources found at: www.epa.gov/cleandiesel/clean-diesel-national-grants#rfp
 - “Tips for a Successful Diesel Retrofit Project” provides tips to help you get started and avoid common mistakes.
 - “Technologies, Fleets and Projects Information” provides information about retrofit technologies and what to look for.
 - Clean Diesel Clearinghouse (CDCH) is a web-based tool that helps users determine the best available emission reduction technology for retrofitting diesel-powered vehicles and equipment.
 - Shore Power Technology Assessment at U.S. Ports

Additional Support



- Frequently Asked Questions
 - Posted weekly, on webpage
 - List will include questions from today's webinar
 - Deadline for submitting questions is Friday, June 1
 - Submit questions via email to cleandiesel@epa.gov or 1-877-NCDC-FACTS (1-877-623-2322)
 - Type "RFP Question" in the subject line of email

www.epa.gov/cleandiesel/clean-diesel-national-grants#rfp

Thank You!

FY 2018 Request for Proposals Information Session

John Rogan

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617-918-1645

