



# Protecting Florida Together

## DERA RFI Survey Questions

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**Attention: This document is not the official RFI. To complete the official RFI, you must fill out and submit the online version hosted on the Department's webpage. This list of RFI questions is not to be filled out and submitted to the Department.**

**This Request for Information (RFI) seeks to develop DERA projects. The Department is requesting input from individuals or entities interested in replacing eligible diesel engines with eligible more efficient diesel vehicles. Failure to complete and submit a completed RFI does not preclude interested entities from participating in this program; however, the data provided will help determine the scope of available funding and timing of projects.**

**If you are not a government or nongovernment entity interested in receiving funding under DERA, please send comments regarding DEMP to [VWMitigation@FloridaDEP.gov](mailto:VWMitigation@FloridaDEP.gov).**

**Before completing the RFI survey, please read through the requirements for the eligible DERA projects on the Department's DEMP webpage**

**Bus replacements are eligible under DERA, however, the Department has a separate RFI for bus projects. to complete a Bus Replacement RFI, visit The [School, Transit, and Shuttle Bus RFI](#) page. The Department will focus on funding bus projects through the dedicated bus initiative before funding bus projects through the DERA program.**

### **EPA Diesel Engine Tier Reference Guide**

**This diesel engine tier guide is used to determine what tier the engine to be replaced is as well as the new replacement engine. Before starting this RFI Survey, please identify which tier the engine(s) you wish to replace are to accurately provide the Department with engine-specific and/or unit-specific information.**

Tier 0 Engine	
Tier 1 Engine	
Tier 2 Engine	
Tier 3 Engine	
Interim Tier 4	
Tier 4 Engine	

Nonroad Engine NO <sub>x</sub> Emissions Factors by Horsepower and Year (g/bhp-hr)								
Year	Horsepower Groups							
	25-49	50-74	75-99	100-174	175-299	300-599	600-750	750+
1900	7.2	14.8	14.8	15.9	15.9	15.2	15.2	15.2
1969	7.2	14.8	14.8	15.9	15.9	15.2	15.2	15.2
1970	7.2	14.8	14.8	14.8	14.8	14.1	14.1	14.1
1972	7.2	14.8	14.8	13.6	13.6	13	13	13
1980	7.2	14.8	14.8	12.5	12.5	11.9	11.9	11.9
1988	7.1	9.9	9.9	9.3	9.3	8.9	8.9	8.9
1989	7.1	9.9	9.9	9.3	9.3	8.9	8.9	8.9
1996	7.1	9.9	9.9	9.3	6.9	6.9	6.9	8.9
1997	7.1	9.9	9.9	6.9	6.9	6.9	6.9	8.9
1998	7.1	6.9	6.9	6.9	6.9	6.9	6.9	8.9
1999	6.2	6.9	6.9	6.9	6.9	6.9	6.9	8.9
2000	6.2	6.9	6.9	6.9	6.9	6.9	6.9	6.9
2001	6.2	6.9	6.9	6.9	6.9	4.2	6.9	6.9
2002	6.2	6.9	6.9	6.9	6.9	4.2	4.2	6.9
2003	6.2	6.9	6.9	4.3	4.3	4.2	4.2	6.9
2004	4.9	4.9	4.9	4.3	4.3	4.2	4.2	6.9
2005	4.9	4.9	4.9	4.3	4.3	4.2	4.2	6.9
2006	4.9	4.9	4.9	4.3	2.6	2.6	2.6	4.2
2007	4.9	4.9	4.9	2.6	2.6	2.6	2.6	4.2
2008	4.9	3	3	2.6	2.6	2.6	2.6	4.2
2009	4.9	3	3	2.6	2.6	2.6	2.6	4.2
2010	4.9	3	3	2.6	2.6	2.6	2.6	4.2
2011	4.9	3	3	2.6	1.5	1.5	1.5	2.6
2012	4.9	3	2.5	2.5	1.5	1.5	1.5	2.6
2013	3	3	2.5	2.5	1.5	1.5	1.5	2.6
2014	3	3	2.5	2.5	0.3	0.3	0.3	2.6
2015	3	3	0.3	0.3	0.3	0.3	0.3	2.6
2016	3	3	0.3	0.3	0.3	0.3	0.3	2.6
2017	3	3	0.3	0.3	0.3	0.3	0.3	2.6
2018	3	3	0.3	0.3	0.3	0.3	0.3	2.6
2019	3	3	0.3	0.3	0.3	0.3	0.3	2.6
2020	3	3	0.3	0.3	0.3	0.3	0.3	2.6

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### 1) Contact Information

First Name\*:

Last Name\*:

Email Address\*:

Phone Number:

### 2) Which of the following best describes you?\*

Government (city, county, state, etc.)

Non-Government

**Please enter the name of the government entity you represent\***

**Please enter the name of the non-government entity you represent\***

**3) Which of the following DERA project types would you prioritize?\***

- Marine engine replacement
  - Locomotive repowering
  - Nonroad engines, equipment, or vehicle replacement or repowering used in construction, cargo handling, agriculture, mining, or energy production
  - Medium-duty or heavy-duty truck replacement
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## Marine

**4) Under DERA, certain marine diesel engines are eligible for replacement. Entire marine vessels are eligible for replacement, but the engine(s) must still meet certain requirements. Are you still interested in participating?\***

Yes

No

**5) Marine diesel engines are eligible if they are categorized as unregulated, Tier 1, or Tier 2. Additionally, Tier 3 and Tier 4 diesel engines are eligible for zero-emissions (i.e. electric or hydrogen) replacement only. Are the marine diesel engine(s) you would like to replace unregulated or Tier 1-4, understanding that Tier 3 and Tier 4 engines can only be replaced with zero-emissions options?\***

Yes

No

**6) Unregulated and Tier 1-4 marine diesel engines are eligible if they are under 30 liters per cylinder. Does your marine diesel engine meet this requirement?\***

- Yes
- No

**7) Which of the following new marine diesel engine(s) would you like to purchase to replace your old marine diesel engine(s)?\***

- A marine diesel engine or "spark ignition" engine with a 2019 model year (Tier 3 or Tier 4) or older if the older engine model year can be proven to have the same emissions standards as the 2019 model
- A zero-tailpipe emissions power source (i.e. electric or hydrogen)

**8) Under DERA, all replaced units must be scrapped. The scrapping requirement for replacement calls for a 3-inch diameter hole bored in the old unit's engine block and the chassis cut in two pieces between the front and rear axles. Repowered units require only the same 3-inch diameter hole in the engine block and do not require the destruction of the chassis. Are you able to complete the scrapping requirement as it would apply to your project? \***

- Yes
- No

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**Locomotives**

**9) Certain locomotive units are eligible for replacement or repower (engine replacement) if the unit or engine to be replaced is classified as unregulated, Tier 1, or Tier 2. Does your locomotive meet this requirement?\***

Yes

No

**10) Eligible unregulated, Tier 1, Tier 2, units or engines, and Tier 2+ Switcher units or engines to be replaced or repowered must be replaced with Tier 4 or all-electric units or engines. Are you still interested in participating?\***

Yes

No

**11) Eligible unregulated, Tier 1, Tier 2, units or engines, and Tier 2+ Switcher units or engines are also eligible through certain types of verified retrofits. Would you prefer to retrofit instead of replacement or repowering? \***

Yes

No



**12) Of the following, which are you most interested in replacing their current locomotive engine(s) with?\***

- A diesel engine with a 2019 model year (Tier 4) or older if the older engine model year can be proven to have the same emissions standards as the 2019 model
- A zero-tailpipe emissions power source (i.e. electric)

**13) Tier 2+ line haul locomotives are only eligible through certain verified retrofits. Are you interested in this option? \***

- Yes
- No

**14) Are you considering locomotive shore connection systems and automatic shutdown/start-up systems to reduce idle emissions?\***

- Yes
- No

**15) Under the DERA program, eligible locomotive diesel engines must be used at least 1,000 hours per year. Engine hours may be combined to reach the 1,000-hour threshold where two engines will be scrapped and replaced with a single engine. Does your locomotive diesel engine(s) meet this annual usage requirement? \***

- Yes

No

**16) Unregulated, Tier 1, Tier 2, and Tier 2+ engines are eligible if they are under 30 liters per cylinder. Does your diesel engine meet this requirement?\***

Yes

No

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## **Nonroad Equipment**

**17) Please specify category of equipment :\***

Construction

Cargo Handling (including Port and Airport)

Agriculture

Mining

- Energy Production (including stationary generators and pumps)

**18) Do you want to replace or repower (replace the engine) a nonroad unit?\***

- Replace unit
- Repower unit

**19) The table below (Table 3) indicates which current nonroad units are eligible for replacement or repower (engine replacement).\***

- I have at least one unit that is eligible
- My unit is ineligible

**Please enter the number of units you would like to replace or repower for each of the following equipment's categories.\***

Replace a 2006 and Newer Unregulated - Tier 2 Engine/Unit:

Replace a 1996 and Newer Tier 0 - Tier 2 Engine/Unit:

Replace a 1996 and Newer Tier 3 Engine/Unit:

Replace a 1986 and Newer Tier 0 - Tier 2 Engine/Unit:

Replace a 1986 and Newer Tier 3 Engine/Unit:

Repower a 2006 and Newer Unregulated - Tier 2 Engine/Unit:

Repower a 1996 and Newer Tier 0 - Tier 3 Engine/Unit:

Repower a 1986 and Newer Tier 0 - Tier 3 Engine/Unit:

Repower a 1986 and Newer Tier 0 - Tier 2 Engine/Unit:

**Table 3. Nonroad Engine Funding Restrictions**

Current Engine Horsepower	Current Engine Model Year (EMY) and Tier	Vehicle/Equipment Replacement: EMY 2019+					Verified Retrofit
		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 2019+**				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 2019 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 2019.

**20) Which of the following replacement or repower types are you most interested in?\***

- A zero tailpipe emissions (i.e. electric or hydrogen) power source (Replacement)
- A zero tailpipe emissions (i.e. electric or hydrogen) power source (Engine Replacement)
- A new Tier 4 Compression Ignition or Tier 2 Spark Ignition unit replacement.
- A new Tier 4 Compression Ignition or Tier 2 Spark Ignition engine replacement
- Verified Retrofit of a vehicle/equipment (whole unit)
- Verified Engine Upgrade under the Engine Replacement category
- A new Tier 3 or Tier 4i (Only if replacing a 1996 and Newer Tier 0 – Tier 2 or 1986 and Newer Tier 0 – Tier 2)

**21) All nonroad diesel units and engines must be used at least 500 hours per year. Agricultural pumps, however, must be used at least 250 hours per year. Does your nonroad diesel engine(s) meet this requirement? \***

- Yes
  - No
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## Truck Replacement

**22) Medium-duty and heavy-duty highway vehicles are defined as Class 5 through Class 8, which are based on gross vehicle weight rating (GVWR). Please indicate how many units from each classification you wish to replace:\***

Class 5 (16,001-19,500 lbs. GVWR):

Class 6 (19,501-26,000 lbs. GVWR):

Class 7 (26,001-33,000 lbs. GVWR):

Class 8a (33,001-60,000 lbs. GVWR):

Class 8b (60,001 lbs. GVWR and over):

**23) If you selected Class 8a or Class 8b: Under the DERA Program Guide, Class 8 vehicles which are “Drayage Trucks” are eligible for a higher cost-share from the state. A “Drayage Truck” means any Class 8 (GVWR greater than 33,000) highway vehicle operating on or transgressing through port or intermodal rail yard property for the purpose of loading, unloading or transporting cargo, such as containerized, bulk or break-bulk goods. Are the Class 8a or Class 8b units you selected considered drayage trucks?\***

Yes

No

- I did not indicate Class 8a or Class 8b in the previous question

<b>Current Engine Model Year (EMY)</b>	<b>Replacement Vehicle: EMY 2016+ (2013+ for Drayage)</b>	<b>Replacement Vehicle: EMY 2016+ Zero Emission or Low-NOx</b>
older - 1995	No	No
1996 - 2009	Yes	Yes
2010 - newer	No	Yes

**24) Please consult the table above to determine the eligibility of the Class 5-8 unit(s) you wish to replace. Once you have determined eligibility, please indicate if your unit(s) are eligible below. Please note that drayage trucks have different eligibility parameters.\***

- Yes, my current unit(s) and replacement unit(s) type are eligible
- No, my current unit(s) and replacement unit(s) type are not eligible



Not all of the unit(s) and replacement unit(s) are eligible. Please indicate how many are eligible at the end of the survey when additional comments are requested.

<b>DERA Funding Limits and Mandatory Cost-Share Requirements DERA Eligible Activities</b>	<b>DERA Funding Limits (State Funding)</b>	<b>Minimum Mandatory Cost-Share (Fleet Owner Contribution)</b>
Vehicle/Equipment Replacement – Zero Emission	45%	<b>55%</b>
Vehicle/Equipment Replacement – Low NOx	35%	<b>65%</b>
Vehicle/Equipment Replacement – Diesel or Alternative Fuel	25%	<b>75%</b>
Vehicle Replacement - Drayage	50%	<b>50%</b>

**25) Please consult the following table for cost-share amounts and indicate if you can provide the minimum mandatory cost-share (Fleet Owner Contribution) to participate in the program.\***

- Yes, I am aware of the minimum mandatory cost-share and would like to participate
- No, I have consulted the table and cannot participate based on the minimum mandatory cost-share

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## General

**26) Under DERA, all replaced units must be scrapped. The scrappage requirement for replacement calls for a 3-inch diameter hole bored in the old unit's engine block and the chassis cut in two pieces. Repowered units require only the same 3-inch diameter hole in the engine block and do not require the destruction of the chassis. Are you able to complete the scrappage requirement as it would apply to your project?\***

- Yes
- No

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## Additional Information

**27) Please provide any additional information about the unit(s) or engine(s) you would like to receive project-specific funding for, or any questions you may have for the Department. (optional)**



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## Thank You!

Thank you for completing this RFI Survey. The Department will use the information gathered from this RFI to develop a program under the Diesel Emissions Mitigation Program (DEMP). Please feel free to contact [VWmitigation@FloridaDEP.gov](mailto:VWmitigation@FloridaDEP.gov) if you have any questions. If you have not already, please sign up for news and information alerts regarding DEMP at : <https://floridadep.gov/subscribe>.

Thank you for your interest in the DERA State Grant Program, however, the project you wish to complete is ineligible under the DERA Program Guide. Please email [John.Fraites@FloridaDEP.gov](mailto:John.Fraites@FloridaDEP.gov) to discuss DERA eligibility.

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