



**Introduction to Final ARRA Report Spreadsheet**

Congratulations on successfully completing your ARRA DERA grant! In order to officially close out your grant, there is one more step you need to complete: the Final Report.

The Final Report has 2 parts; Part 1 is a Narrative Word Document, and Part 2 is this Project Fleet Description Spreadsheet. This template may be slightly different than the version you have been using for your quarterly reports, and includes all required information on your fleet. In order to ensure that all required final information is reported, you have 2 options for completing the Final Project Fleet Description:

**Option 1:** You may enter or copy the information on all cumulative vehicles involved in your project from previous quarterly Project Fleet Description Spreadsheets into this document. Please note that there are most likely additional columns in this spreadsheet that will also need to be filled in for your vehicles.

**Option 2:** If your last quarterly Project Fleet Description Spreadsheet contained all cumulative vehicles involved in your project, you may use that spreadsheet as your Final Project Description Spreadsheet, provided that all information in this Final Report Template is included and any new columns are added to your spreadsheet. Please pay special attention to information required for upgrades, replacements and repowers, as described below.

For Upgrades, Repowers and Replacements, this Spreadsheet includes columns for the pre and post Tier Levels (Columns I & V), and the pre and post Emission Standard Levels (Columns J & W). For Exhaust Control or Idle Reduction Projects, this Spreadsheet includes a column that asks for the Verified Technology model that corresponds to EPA or CARB's Verified Technology List (Column T). These items may not have been recorded in the quarterly spreadsheet template.

If you have any questions regarding this form, please contact your Project Officer.



Recipient Information

Table with 11 columns: Organization/Grantee Name, FirstName, LastName, JobTitle, Address, City, State, EmailAddress, ZipCode, OfficePhone, OfficePhoneExt

Project 1 Information

Table with 12 columns: ProjectName, Organization Performing Project, TargetFleet, Number of Vehicles, City, County, State, Region, Funding Amount, Additional Funding Source, Additional Funding Amount, Public Benefit

Fleet 1 Information:

Main table for Fleet 1 with columns for Current Vehicle Information and New Vehicle/Technology Information. Includes fields like VehicleType, TargetFleet, Class/Equipment, Vehicle Count, Engine Make, etc.

Copy and paste additional lines as necessary to capture project fleet information.

Project 2 Information

Table with 12 columns: ProjectName, Organization Performing Project, TargetFleet, Number of Vehicles, City, County, State, Region, Funding Amount, Additional Funding Source, Additional Funding Amount, Public Benefit

Fleet 2 Information:

Main table for Fleet 2 with columns for Current Vehicle Information and New Vehicle/Technology Information. Includes fields like VehicleType, TargetFleet, Class/Equipment, Vehicle Count, Engine Make, etc.

Copy and paste additional lines as necessary to capture project fleet information.

Project 3 Information

Table with 12 columns: ProjectName, Organization Performing Project, TargetFleet, Number of Vehicles, City, County, State, Region, Funding Amount, Additional Funding Source, Additional Funding Amount, Public Benefit

Fleet 3 Information:

Main table for Fleet 3 with columns for Current Vehicle Information and New Vehicle/Technology Information. Includes fields like VehicleType, TargetFleet, Class/Equipment, Vehicle Count, Engine Make, etc.





**Recipient Information**

Organization/ Grantee Name	FirstName	LastName	JobTitle	Address	City	State	EmailAddress	ZipCode	OfficePhone	OfficePhoneExt

**Project 1 Information**

ProjectName	Organization Performing Project	TargetFleet	Number of Vehicles	City	County	State	Region	Funding Amount	Additional Funding Source	Additional Funding Amount	Public Benefit
		Marine									

**Fleet 1 Information for MARINE VESSELS ONLY**

Current Vessel Information													New Vessel/Technology Information														
Sector	Application	Total Number of Engines per Vessel (max 5)	Engine Type	Number of Engines	Engine Model Year	Activity Level (Hours per Year per engine)	Horsepower	Annual Idling Hours per engine	Current Tier Level	Current Standard Level for PM and NOx or NMHC+NOx	Displacement per cylinder (Liters)	Current Fuel Type	Amount of Fuel Used (gallons/year per engine group)	Year of Retrofit Action	Serial or VIN # of scrapped/replaced engine or vessel	Technology Type	Technology Make	Verified Technology Model	New Engine Model Year (replacements, repowers, and upgrades Only)	Activity Level (hrs/yr per engine - replacements, repowers, and upgrades Only)	Annual Idling Hours Reduced per engine	New Engine Tier Level (replacements, repowers, and upgrades Only)	New Standard Level for PM and NOx or NMHC+NOx	Technology Unit Cost	Technology Unit Installation Cost		
Marine																											
Marine																											
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Marine																											

Copy and paste additional lines as necessary to capture project fleet information.

**Project 2 Information**

ProjectName	Organization Performing Project	TargetFleet	Number of Vehicles	City	County	State	Region	Funding Amount	Additional Funding Source	Additional Funding Amount	Public Benefit
		Marine									

**Fleet 2 Information for MARINE VESSELS ONLY**

Current Vessel Information													New Vessel/Technology Information															
Sector	Application	Total Number of Engines per Vessel (max 5)	Engine Type	Number of Engines	Engine Model Year	Activity Level (Hours per Year per engine)	Horsepower	Annual Idling Hours per engine	Current Tier Level	Current Standard Level for PM and NOx or NMHC+NOx	Displacement per cylinder (Liters)	Current Fuel Type	Amount of Fuel Used (gallons/year per engine group)	Year of Retrofit Action	Serial or VIN # of scrapped/replaced engine or vessel	Technology Type	Technology Make	Verified Technology Model	New Engine Model Year (replacements, repowers, and upgrades Only)	Activity Level (hrs/yr per engine - replacements, repowers, and upgrades Only)	Annual Idling Hours Reduced per engine	New Engine Tier Level (replacements, repowers, and upgrades Only)	New Standard Level for PM and NOx or NMHC+NOx	Technology Unit Cost	Technology Unit Installation Cost			
Marine																												
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Marine																												
Marine																												

Copy and paste additional lines as necessary to capture project fleet information.

Please replicate the Project and Fleet Information Tables as necessary for additional Projects/Fleets.



The spreadsheet is divided into three sections: Recipient Information, Project Information, and Fleet Information.  
Below is an explanation of each field.

For an example of how the Project Fleet Description spreadsheet should be filled out, please refer to the tab labeled 'Example PFD'.

**Recipient Information should only be filled out only once.**

**Project Information and Fleet Information should be filled out for each separate "project" within the grant.**

**Separate projects are generally defined as separate subgrants to various entities, or separate, distinct target fleets within the grant or subgrants.**

**Fleet Information should be cumulative, and include all affected engines, vehicles, and retrofits under the project, as of the end of the current Reporting Period.**

**R**

**Organization/ Grantee Name-** Enter the name of the organization receiving the grant from EPA (regardless of who actually uses the funds).

**First Name-** Enter the FIRST name of the contact person for the grant.

**Last Name-** Enter the LAST name of the contact person for the grant.

**Job Title-** Enter the Job Title of the contact person for the grant.

**Email Address-** Enter the email address of the contact person for the grant.

**Address-** Enter the address of the contact person for the grant.

**City-** Enter the city of the contact person for the grant.

**State-** Enter the two letter postal code of the contact person for the grant.

**Zip Code-** Enter the zip code of the contact person for the grant.

**Office Phone-** Enter the phone number of the contact person for the grant.

**OfficePhoneExt-** Enter the extension of the contact person for the grant (if applicable).

**P**

**Project Name-** Enter the name of the project (try to include both the Organization Name and Fleet(s)).

**Organization Performing Project-** Enter the name of the entity performing the project (this could be the EPA Recipient or a Subgrantee).

**Target Fleet-** Select from the dropdown menu provided the target fleet to be addressed.

**Number of Vehicles-** Enter the number of vehicles to be addressed.

**City-** Enter the city in which the project will take place.

**County-** Enter the county in which the project will take place.

**State-** Enter the two letter postal code for the state in which the project will take place.

**Funding Amount -** Enter the total amount of Federal funds to be committed to the project

**Additional Funding Source-** If there are to be matching funds, enter the source.

**Additional Funding Amount-** Enter the amount of funds provided.

**Public Benefit -** If the vehicles are part of a public fleet or benefit the public (i.e. a private school bus company contracted by a public school; drayage vehicles that serve a port; private construction equipment contracted to a public works project, etc)  
enter "yes", otherwise enter "no".

**E**

**Vehicles can be combined on one**

- Vehicle Type-** Enter the vehicle type, either "On Highway" "NonRoad".
- Target Fleet-** Select the target fleet from the dropdown menu.
- Class/Equipment-** Select from the dropdown menu the Vehicle Class or type of nonroad equipment.
- Vehicle Count-** Enter the number of vehicles that fall under this Vehicle Class or type of nonroad equipment.
- Engine Make-** Enter the manufacturer of the existing Engine.
- Engine Model-** Enter the model of the existing Engine.
- Engine Model Year-** Enter the model year of this engine set.
- Horsepower-** For NONROAD ONLY, Enter the average horsepower of the equipment.
  
- Current Tier Level-** For NONROAD REPLACEMENTS, REPOWERS AND UPGRADES ONLY, Select from the dropdown menu the Current Tier Level.  
For NONROAD AND ON-HIGHWAY REPLACEMENTS, REPOWERS AND UPGRADES ONLY, enter the current emission standard
- Current Standard Level -** levels of the engine for PM and NOx or NMHC+NOx.
- Current Fuel Type-** Select the type of fuel that is currently being used (prior to any clean diesel activity change).
- Amount of Fuel Used-** Enter the amount of fuel used in gallons for all vehicles in the row (i.e. if the Vehicle Count is 2 and each vehicle uses 2,000 gallons/year, enter 4,000).
- Annual Miles-** For ON-HIGHWAY ONLY, Enter the average number of vehicle miles traveled per year per vehicle.
- Annual Usage Rate Hours-** For NONROAD ONLY, Enter the average number of hours the equipment is used per year.
- Annual Idling Hours-** For ON-HIGHWAY ONLY, Enter the average number of hours the vehicle idles per year.
- VIN/Serial # -** For Repower and Vehicle Replacement Projects, Enter the VIN or engine Serial # for each scrapped/replaced vehicle or engine.
  
- Year of Retrofit Action-** Enter the year in which the retrofit will take place (i.e., if in 2010, you're replacing a 1995 bus with a 2007 bus, the retrofit year is 2010.)
- Technology Type-** Enter the type of technology to be used. Example: Diesel Particulate Filter, Replacement, Biodiesel 100
- Technology Make-** Enter the make of the technology. Example: Donaldson, Caterpillar.  
Enter the model of the technology as identified on the EPA/CARB verification lists (i.e. Johnson Matthey ACCRT, Carrier Transicold - Comfortpro, etc.) to confirm a verified technology was used.
- Verified Technology Model-** This is applicable for exhaust retrofits, upgrades, idle reduction technologies, aerodynamics and low rolling resistant tires. Verified Technology Model may not be known for the initial application, pending the bid process, and would be noted as TBD.
- New Engine Model Year-** For REPLACEMENTS AND REPOWERS ONLY, Enter the model year of the new vehicle/engine.
- New Tier Level-** For NONROAD REPLACEMENTS, REPOWERS AND UPGRADES ONLY, Select from the dropdown menu the new Tier Level.  
For NONROAD AND ON-HIGHWAY REPLACEMENTS, REPOWERS AND UPGRADES ONLY, enter the new emission standard levels
- New Standard Level-** of the engine for PM and NOx or NMHC+NOx.
- Annual Idling Hours reduced-** For IDLE REDUCTION STRATEGIES ONLY, Enter the average number of idling hours reduced for the engines in this row.
- Technology Unit Cost-** Enter the dollar amount of the technology per unit.
- Technology Unit Installation-** Enter the cost of installing the technology per unit.

**Marine Vessels**

**Sector-** This field will always read marine.

**Application-** Select the target vessel.

**Number of Engines per Vessel-** Enter the total number of engines on the vessel including auxiliary and propulsion. The max number of engines allowed per vessel is 5.

**Engine Type-** Identify which engines are propulsion and which are auxiliary.

**Number of Engines-** Enter the quantity of propulsion and the quantity of auxiliary engines.

**Engine Model Year-** Enter the average model year of this group of engines in the row.

**Activity Level-** Enter the number of hours in operation.

**Horsepower-** Enter the average horsepower of the group of engines in the row.

**Annual Idling Hours per Engine-** Enter the average number idling hours for the engines in this row in a given year.

**Current Tier Level-** For REPLACEMENTS, REPOWERS AND UPGRADES ONLY, Select from the dropdown menu the Current Tier Level.

For REPLACEMENTS, REPOWERS AND UPGRADES ONLY, enter the current emission standard levels of the engine for PM and

**Current Standard Levels-** NOx or NMHC+NOx.

**Displacement per cylinder** Select from the dropdown menu the displacement per cylinder in liters.

**Current Fuel Type-** Select the type of fuel that is currently being used (prior to any clean diesel activity change).

**Amount of Fuel Used-** Enter the amount of fuel used in gallons for all engines in the row (i.e. if the Vehicle Count is 2 and each vehicle uses 2,000 gallons/year, enter 4,000).

**Year of Retrofit Action-** Enter the year in which the retrofit will take place (i.e. If in 2010, you're upgrading a Tier 0 engine to Tier 1, then the retrofit year is 2010)

**VIN/Serial # -** For Repower and Vehicle Replacement Projects, Enter the VIN or engine Serial # for each scrapped/replaced vehicle or engine.

**Technology Type-** Enter the type of technology to be used. Example: Diesel Oxidation Catalyst, Shore Power, Engine Repower, etc.

**Technology Make-** Enter the make of the technology. Example: Donaldson, Caterpillar.

**Technology Model-** Enter the model of the technology if available (i.e. Johnson Matthey PCRT).

**New Engine Model Year-** For REPLACEMENTS AND REPOWERS ONLY, Enter the model year of the new engine(s).

**Activity Level-** For REPLACEMENTS AND REPOWERS ONLY, Enter the activity level in hours per year per engine.

**Annual Idling Hours reduced-** For IDLE REDUCTION STRATEGIES ONLY, Enter the number of idling hours reduced as a result of this technology.

**New Engine Tier Level-** For REPLACEMENTS, REPOWERS AND UPGRADES ONLY, Select from the dropdown menu the new Tier Level.

**New Standard Levels-** For REPLACEMENTS, REPOWERS AND UPGRADES ONLY, enter the new emission standard levels of the engine for PM and NOx or NMHC+NOx.

**Technology Unit Cost-** Enter the cost of the technology per unit.

**Technology Unit Installation-** Enter the cost of installing the technology per unit.



**Recipient Information**

Organization/Grantee Name	FirstName	LastName	JobTitle	Address	City	State	EmailAddress	ZipCode	OfficePhone	OfficePhoneExt
Missouri Department of Transportation	Jeannie	Wilson	General Services Fleet Manager	P.O. Box 270	Jefferson City	MO	<a href="mailto:Jeannie.Wilson@modot.mo.gov">Jeannie.Wilson@modot.mo.gov</a>	65102	573-526-1199	

**Project A Information**

ProjectName	Organization Performing Project	TargetFleet	Number of Vehicles	City	County	State	LeadRegion	Funding Amount Requested	Additional Funding Source	Additional Funding Amount	Public Benefit
MO Dept of Transport Retrofits	Missouri Department of Transportation	City/County vehicle	21	St. Louis		MO	7	\$63,271	In-Kind Contribution From MoDOT	\$2,000	yes

**Fleet A Information:**

Current Vehicle Information												New Vehicle/Technology Information													
VehicleType	TargetFleet	Class/Equipment	VehicleCount	Engine Make	Engine Model & Engine Family	Engine Model Year	Horsepower (Nonroad Only)	Current Tier Level (Nonroad Only)	Current Standard Level for PM and NOx or NMHC+NOx	Fuel Type	Amount of Fuel Used (gal/year for all engines in this row)	Annual Miles per vehicle (On Highway Only)	Annual Usage Rate Hours per engine (Nonroad Only)	Annual Idling Hours (per engine)	Serial and/or VIN # of scrapped engine and/or vehicle	Year of Retrofit Action	Technology Type	Technology Make	Verified Technology Model	New Engine Model Year (for replacements/repowers Only)	New Tier Level (Nonroad replacements/repowers Only)	New Standard Level for PM and NOx or NMHC+NOx	Annual Idling Hours Reduced (per engine)	Technology Unit Cost	Technology Unit Installation Cost
On Highway	City/County vehicle	Dumpers/Tenders	15	International	DT466 2NVXH0466ANA	2002			PM: 0.10, NOx: 4.0 g/bhp-hr	Diesel (ULSD), 15 ppm	64,000	8,000		800		2009	Diesel Oxidation Catalyst (DOC)	Donaldsion	Series 6100 DOC						
On Highway	City/County vehicle	Dumpers/Tenders	6	International	DT466 2NVXH0466ANA	2002			PM: 0.10, NOx: 4.0 g/bhp-hr	Diesel (ULSD), 15 ppm	64,000	8,000		800		2009	Diesel Particulate Filter (DPF)	Johnson Matthey	CRT3						

**Project B Information**

ProjectName	Organization Performing Project	TargetFleet	Number of Vehicles	City	County	State	LeadRegion	Funding Amount Requested	Additional Funding Source	Additional Funding Amount	Public Benefit
MO Dept of Transport Retrofits	Missouri Department of Transportation	Construction	37	St. Louis		MO	7	\$111,478	In-Kind Contribution From MoDOT	\$2,400	yes

**Fleet B Information:**

Current Vehicle Information												New Vehicle/Technology Information													
VehicleType	TargetFleet	Class/Equipment	VehicleCount	Engine Make	Engine Model & Engine Family	Engine Model Year	Horsepower (Nonroad Only)	Current Tier Level (Nonroad Only)	Current Standard Level for PM and NOx or NMHC+NOx	Fuel Type	Amount of Fuel Used (gal/year for all engines in this row)	Annual Miles per vehicle (On Highway Only)	Annual Usage Rate Hours per engine (Nonroad Only)	Annual Idling Hours (per engine)	Serial and/or VIN # of scrapped engine and/or vehicle	Year of Retrofit Action	Technology Type	Technology Make	Verified Technology Model	New Engine Model Year (for replacements/repowers Only)	New Tier Level (Nonroad replacements/repowers Only)	New Standard Level for PM and NOx or NMHC+NOx	Annual Idling Hours Reduced (per engine)	Technology Unit Cost	Technology Unit Installation Cost
Off Road	Construction	Tractors/Loaders/Balckhoes	13	John Deere	DB33A WDWXL03.3AMN	1998	62	Tier 1	PM: N/A, NOx: 9.2 g/kW-hr	Diesel (LSD), 500 ppm	14,000	n/a	300	n/a		2009	B20								
Off Road	Construction	Aerial Lifts	3	New Holland		1995	80	Tier 0	NA	Diesel (LSD), 500 ppm	2700	n/a	250	n/a		2009	Engine Repower				2008	Tier 3	PM: 0.40, NMHC+NOx: 4.7 g/kW-hr		

**Fleet C Information for MARINE VESSELS ONLY**

Current Vessel Information												New Vessel/Technology Information													
Sector	Application	Total Number of Engines per Vessel (max 5)	Engine Type	Number of Engines	Engine Model Year	Activity Level (Hours per Year per engine)	Horsepower	Annual Idling Hours per engine	Current Tier Level	Current Standard Level for PM and NOx or NMHC+NOx	Displacement per cylinder (Liters)	Current Fuel Type	Amount of Fuel Used (gallons/year per engine group)	Year of Retrofit Action	Serial or VIN # of scrapped/replaced engine or vessel	Technology Type	Technology Make	Verified Technology Model	New Engine Model Year (replacements, repowers, and upgrades Only)	Activity Level (hrs/yr per engine - replacements, repowers, and upgrades Only)	Annual Idling Hours Reduced per engine	New Engine Tier Level (replacements, repowers, and upgrades Only)	New Standard Level for PM and NOx or NMHC+NOx	Technology Unit Cost	Technology Unit Installation Cost
Marine	Ferry/Excursion	3	propulsion	2	1997	1600	1000	3000	Tier 0	NA	15.0<= size <20.0	Diesel (LSD), 500 ppm	50,000	2010		Vehicle/Equipment Replacement			2017	2000		Tier 1	PM: 0.04, NOx: 1.8 g/kW-hr		
			auxilliary	1	1994	1400	110	1000	Tier 0	NA	size < 0.9	Diesel (LSD), 500 ppm	2,000	2010		Shore Connection System (Marine)					800				