



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

Recipient

Organization 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).

Project

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

Entity- 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; enter "yes", otherwise enter "no").

Fleet

Information

Vehicles can be combined on one line if all the information is the same. Please see the Example PFD tab

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.
For NONROAD REPLACEMENTS, REPOWERS AND UPGRADES ONLY, Select from the dropdown menu the Current Tier Level.
- Current Tier Level-** Level.
For NONROAD AND ON-HIGHWAY REPLACEMENTS, REPOWERS AND UPGRADES ONLY, enter the current emission standard levels of the engine for PM and NOx or NMHC+NOx.
- Current Standard Level -** standard 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.
- Retrofit Year-** 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 2007).
- 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.
- Verified Technology Model-** Enter the model of the technology as identified on the EPA/CARB verification lists (i.e. Johnson Matthey ACCRT, Carrier). 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.
- New Standard Level-** For NONROAD AND ON-HIGHWAY REPLACEMENTS, REPOWERS AND UPGRADES ONLY, enter the new emission standard levels 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.
- 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 NOx or NMHC+NOx.
- Current Standard Levels-** and 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).
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)
- 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

OrganizationName	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	Jeannie.Wilson@modot.mo.gov	65102	573-526-1199	

Project A Information

ProjectName	Entity	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																	
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	Retrofit Year	Technology Type
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	4.0	800		2009	Diesel Oxidation Catalyst (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	4.0	800		2009	Diesel Particulate Filter (DPF)

Project B Information

ProjectName	Entity	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																	
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	Retrofit Year	Technology Type
Off Road	Construction	Tractors/Loaders/Backhoes	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

Fleet C Information for MARINE VESSELS ONLY



Current Vessel 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)	Retrofit Year	Serial or VIN # of scrapped/replaced engine or vessel	Technology Type	Technology Make
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	
			auxilliary	1	1994	1400	110	1000	Tier 0		size < 0.9	Diesel (LSD), 500 ppm	2,000	2010		Shore Connection System (Marine)	



New Vehicle/Technology Information							
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
Donaldson	Series 6100 DOC						
Johnson Matthey	CRT3						

New Vehicle/Technology Information							
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
		2008	Tier 3	PM: 0.40, NMHC+NOx: 4.7 g/kW-hr			



New Vessel/Technology Information							
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
	2017	2000		Tier 1	PM: 0.04, NOx: 1.8 g/kW-hr		
			800				

Recipient Information

OrganizationName	FirstName	LastName	JobTitle	Address	City	State	EmailAddress	ZipCode	OfficePhone	OfficePhoneExt

Project 1 Information

ProjectName	Entity	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)	Retrofit Year	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 Installation Cost		
Marine																											
Marine																											
Marine																											
Marine																											
Marine																											
Marine																											

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

Project 2 Information

ProjectName	Entity	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)	Retrofit Year	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 Installation Cost			
Marine																												
Marine																												
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.

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Region	Model Year	States	Fleet Type			
					Vehicle Type	Vehicle Class or Type of Nonroad Equipment
1	1970	AK	School Bus			
2	1971	AL	Ports and Airports		On Highway	Class 5
3	1972	AZ	Construction		NonRoad	Class 6
4	1973	AR	Delivery Truck			Class 7
5	1974	CA	Transit Bus			Class 8A
6	1975	CO	Rail		public fleet	Class 8B
7	1976	CT	Refuse Hauler		yes	School Bus
8	1977	DE	Utility Vehicle		no	Transit Bus
9	1978	DC	Long Haul			-
10	1979	FL	Agriculture			2-Wheel Tractors
	1980	GA	Mining			ACRefrigeration
	1981	HI	Marine		Fuel	Aerial Lifts
	1982	ID	Stationary		Diesel (ULSD), 15 ppm	Agricultural Mowers
	1983	IL	City/County vehicle		Diesel (LSD), 500 ppm	Agricultural Tractors
	1984	IN	Emergency vehicle		Diesel, 3,400 ppm	Airport Support Equipment
	1985	IA	Other		Biodiesel 100	Balers
	1986	KS			Biodiesel 20	Bore/Drill Rigs
	1987	KY			Biodiesel 5	Cement & Mortar Mixers
	1988	LA			LPG	Combines
	1989	MA			LNG	Concrete/Industrial Saws
	1990	ME			CNG (lbs)	Cranes
	1991	MD			CNG (ft3)	Crawler Tractors
	1992	MH			E85	Crushing/Proc. Equipment
	1993	MI			Emulsion	Dumpers/Tenders
	1994	MN	Tiers			Excavators
	1995	MS	Tier 0			Ferries
	1996	MO	Tier 1			Forklifts
	1997	MT	Tier 2			Graders
	1998	NE	Tier 3			Hydro Power Units
	1999	NV				Irrigation Sets
	2000	NH				Light Commercial Air Compressors
	2001	NJ				Light Commercial Gas Compressors
	2002	NM				Light Commercial Generator Sets
	2003	NY				Light Commercial Pressure Washer
	2004	NC				Light Commercial Pumps

U.S.EPA National Clean Diesel
Applicant Fleet Description Spreadsheet References

	2005	ND				Light Commercial Welders
	2006	OH				Locomotives Line-Haul
	2007	OK				Locomotives Switch
	2008	OR				Locomotives Other
	2009	PA				Logging Equip Fell/Bunch/Skidlers
	2010	RI				Logging Equipment Chain Saws > 6
	2011	SC				Logging Equipment Shredders > 6
	2012	SD				Off-Highway Tractors
		TN				Off-highway Trucks
		TX				Other Agricultural Equipment
		UT				Other Construction Equipment
		VT				Other General Industrial Equipment
		VA				Other Material Handling Equipment
		WA				Pavers
		WV				Paving Equipment
		WI				Plate Compactors
		WY				Railway Maintenance
						Rollers
						Rough Terrain Forklifts
						Rubber Tire Dozers
						Rubber Tire Loaders
						Scrapers
						Signal Boards
DO NOT MODIFY THIS PAGE AT ALL!						Skid Steer Loaders
						Sprayers
						Surfacing Equipment
						Swathers
						Sweepers/Scrubbers
						Tampers/Rammers (unused)
						Terminal Tractors
						Tillers > 6 HP
						Tractors/Loaders/Backhoes
						Trenchers
DO NOT MODIFY THIS PAGE AT ALL!						

Technology
Diesel Oxidation Catalyst
Diesel Oxidation Catalyst + B20
Diesel Oxidation Catalyst + B100
Diesel Oxidation Catalyst + Closed Crankcase Ventilation +B20
Diesel Oxidation Catalyst + Closed Crankcase Ventilation + B100
Diesel Oxidation Catalyst + Emulsion
Diesel Particulate Filter
Diesel Oxidation Catalyst + Closed Crankcase Ventilation
Diesel Particulate Filter + Closed Crankcase Ventilation
Diesel Oxidation Catalyst + Closed Crankcase Ventilation + ULSD (for Nonroad only)
Diesel Oxidation Catalyst + ULSD (for Nonroad only)
Hybrid Electric Replacement with Diesel Particulate Filter
Partial Flow Filter
Compressed Natural Gas (CNG) Replacement
Lean NO _x Catalyst/Diesel Particulate Filter
Selective Catalytic Reduction
Exhaust Gas Recirculation + Diesel Particulate Filter
Ultra Low Sulfur Diesel (ULSD)
Compressed Natural Gas
Liquid Natural Gas
Biodiesel (B20)
Biodiesel (B100)
Hybrid
Engine Repower
Vehicle/Equipment Replacement
Direct Fired Heater
Auxiliary Power Unit
Shutdown/Startup for Locomotives
Low Rolling Resistance Tires
Aerodynamic Improvements
Truck Stop Electrification
Shore Connection System (Marine)
Shore Connection System (Locomotive)
Generator Set

