

Detailed Comparison of VW Eligible Mitigation Action 1-9 and Eligible Mitigation Action #10 (DERA Option) for Tribes

Eligible Mitigation Actions 1-9*				Eligible Mitigation Action 10: DERA Option**			
Class 8 Local Freight Trucks and Port Drayage Trucks (Eligible Large Trucks) Class 4-7 Local Freight Trucks (Eligible Medium Trucks) For 1) Beneficiaries that have State regulations that already require upgrades to 1992-2009 engine model year trucks at the time of the proposed EMA and 2) Eligible Trucks shall also include 2010-2012 engine model year trucks.				Class 5-8 Medium and Heavy Duty Highway Vehicles (including Drayage Trucks)			
Activity	Vehicle and Equipment	Trust Funding Limits			Vehicle and Equipment	DERA Funding Limits	
	Eligibility (Engine Model Year or Tier)	Non-Gov. Owned		Eligibility (Engine Model Year or Tier)			
Engine replacement with new diesel or alternate fueled engine, MY (model year) in which the EMA occurs or one engine model year prior	1992-2009	40%	100%	Engine replacement with diesel or alternate fueled engine, 2013 MY or newer	Pre-2007	75%	
Engine replacement with new all-electric engine, engine MY in which the EMA occurs or one engine MY prior	1992-2009	75%	100%				
Vehicle replacement with new diesel or alternate fueled vehicle, engine MY in which the EMA occurs or one engine MY prior	1992-2009	25% (50% for Drayage)	100%	Vehicle replacement with diesel or alternate fueled vehicle, 2013 MY or newer engine	Pre-2007	50%	
Vehicle Replacement with all-electric vehicle, engine MY in which the EMA occurs or one engine MY prior	1992-2009	75%	100%	Vehicle replacement with all-electric vehicle	Pre-2010	60%	
				Retrofits with verified exhaust control technologies (SCR is the only eligible retrofit technology for vehicles with 2007-2009 MY engines)	Pre-2010	100%	
				Verified Aerodynamic Technologies and Low Rolling Resistance Tires (must be installed with verified exhaust control technology)	Pre-2010	100%	
				Verified Idle Reduction Technologies (APUs and generators are not eligible on vehicles with 2007-2009 MY engines)	Pre-2010	40%	
				Clean Alternative Fuel Conversion	Pre-2010	50%	

Eligible Mitigation	Actions 1-9*		Eligible Mitigation Action 10: DERA Option**				
Class 4-8 School Bus, Shuttle Bus, or Transit Bus (Eligible Buses) For, 1) Beneficiaries that have State regulations that already require upgrades to 1992-2009 engine model year buses at the time of the proposed EMA, and 2) Eligible Buses shall also include 2010-2012 engine model year class 4-8 school buses, shuttle buses, or transit buses.				Type A, B, C, D Buses Class 5-8 Transit, Shuttle, or other buses			
Activity	Vehicle and Equipment	Trust Funding Limits			Vehicle and Equipment		
	Eligibility (Engine Model Year or Tier)	Non-Gov. Owned	Gov. Owned	Activity	Eligibility (Engine Model Year or Tier)	DERA Funding Limits	
Engine replacement with new diesel or alternate fueled engine, engine MY in which the EMA occurs or one engine model year prior	2009 and older	40%	100%	Engine replacement with diesel, electric, or alternate fueled engine, 2013 MY or newer	Pre-2007	75%	
Engine replacement with new all-electric engine, engine MY in which the EMA occurs or one engine MY prior	2009 and older	75%	100%				
Vehicle replacement with new diesel or alternate fueled vehicle, engine MY in which the EMA occurs or one engine MY prior	2009 and older	25%	100%	Vehicle replacement with diesel or alternate fueled vehicle, 2013 MY or newer engine	Pre-2007	50%	
Vehicle Replacement with all-electric vehicle with the engine MY in which the EMA occurs or one engine MY prior	2009 and older	75%	100%	Vehicle replacement with all-electric vehicle	Pre-2010	60%	
				Retrofits with verified exhaust control technologies (SCR is the only eligible retrofit technology for vehicles with 2007-2009 MY engines)	Pre-2010	100%	
				Verified Idle Reduction Technologies (APUs and generators are not eligible on vehicles with MY 2007-2009 engines)	Pre-2010	40%	
				Clean Alternative Fuel Conversion	Pre-2010	50%	

Eligible Mitigation	Actions 1-9*		Eligible Mitigation Action 10: DERA Option** Line Haul (freight and passenger) and Switcher Locomotives*** Must currently operate 1000+ hours per year			
Freight Swite Must currently operate 10		r				
Activity	Vehicle and Equipment Eligibility (Engine Model Year or Tier)	Trust F Lim Non- Gov. Owned	•	Activity	Vehicle and Equipment Eligibility (Engine Model Year or Tier)	DERA Funding Limits
Engine replacement with new diesel or alternate fueled engine or generator sets that are EPA certified for the engine MY in which the EMA occurs	Pre-Tier 4	40%	100%	Engine replacement with a Tier 4 engine	Unregulated – Tier 2; Tier 2+ switcher	75%
Engine replacement with new all-electric engine	Pre-Tier 4	75%	100%	Facility and have a startile of Tim 2 and high an arrival	Lines and stard Time 2	
				Engine replacement with a Tier 2+ or higher engine Engine replacement with a Tier 3 or higher engine	Unregulated – Tier 2 Tier 2+ switcher	75%
Locomotive replacement with new diesel or alternate fueled freight switcher that is EPA certified for the engine MY in which the EMA occurs	Pre-Tier 4	25%	100%	Locomotive replacement with Tier 4 equipment	Unregulated – Tier 2; Tier 2+ switcher	75% 50%
Locomotive replacement with new all-electric freight switcher	Pre-Tier 4	75%	100%	Locomotive replacement with all-electric equipment	Unregulated – Tier 2; Tier 2+ switcher	60%
~	I			Locomotive replacement with Tier 2+ or higher engine	Unregulated – Tier 2	50%
				Switcher replacement with a Tier 3 or higher engine	Tier 2+ switcher	50%
				Certified Remanufacture System or Verified Engine Upgrade	Unregulated - Tier 2+	75%
				Retrofit with verified exhaust control technology	Unregulated - Tier 2+	100%
				Idle reduction technology, including shore power	Unregulated – Tier 2+	40%
Ferries/Tu	195		Marine Engines***			
Fernes/10	150		Must currently operate 1000+ hours per year			
Engine replacement with new Tier 3 or 4 diesel or alternate fueled engine	Pre-Tier 3	40%	100%	Engine replacement with a Tier 3 or Tier 4 engine (diesel, electric, or alternative fuel)	Pre-Tier 3	75%
Engine replacement with new all-electric engine	Pre-Tier 3	75%	100%			
	1	Г	T	Engine replacement with a Tier 2 engine	Unregulated – Tier 1	75%
Certified Remanufacture System or Verified Engine Upgrade	Pre-Tier 3	40%	100%	Certified Remanufacture System or Verified Engine Upgrade	Pre-Tier 3	75%

Eligible Mitiga	tion Actions 1-9*		Eligible Mitigation Action 10: DERA Option**				
Ocean Going Vessels (OGV) Shore Power				Marine Shore Power Connection System			
Activity	Vehicle and Equipment Eligibility (Engine Model Year or Tier)	Trust Fu Lim Non-Gov. Owned	-	Activity	Vehicle and Equipment Eligibility (Engine Model Year or Tier)	DERA Funding Limits	
Costs associated with shore-side system	n/a	25%	100%	Costs associated with shore-side system	n/a	40%	
-	Support Equipment			Nonroad Diesel Engines***			
Forklifts and Port Ca	rgo Handling Equip	ment		Must currently operate 500+ hours per year			
Engine replacement with new all-electric engine	GSE: Pre-Tier 3 diesel; 3 g/bhp-hr and higher spark ignition Forklifts and Port	75%	100%	Engine replacement with all-electric engine	See FY2018/ 2019 Tribal Clean Diesel RFA for complete engine tier restrictions	75%	
Equipment replacement with new all- electric equipment	CHE: Greater than 8000 lbs lift capacity	75%	100%	Equipment Replacement with all-electric equipment		60%	
	· · ·			Engine replacement with Tier 2 or higher engine		75%	
				Engine replacement with Tier 2 or higher engine for stationary generators for power production		80%	
				Equipment replacement with diesel or alt fuel equipment with Tier 2 or higher engine		50%	
				Equipment replacement for equipment with Tier 2 or higher engines for stationary generators for power production		80%	
				Retrofit with verified exhaust control technologies	-	100%	
				Verified Engine Upgrade Electrified Parking Spaces (Truc	k Ston Electrification	75%	
			Labor and equipment of eligible EPA SmartWay				
				verified electrified parking space technologies	n/a	40%	
Light Duty Zero Emission Vehicle Su Level 1, level 2, or fast charging equi electric vehicle supply equipment		onsumer lig	ht duty				
See Appendix D-2 for details							

* The term "Repower" in the Consent Decree has been changed to "Engine replacement" for ease of comparison.

** DERA Option eligibility and cost-shares are based on the FY2018/2019 Tribal Clean Diesel RFP. Subsequent years are subject to change.

*** Replacement with Tier 2+, Tier 3, or Tier 4i requires a "Best Achievable Technology" analysis as described in Appendix E of the FY2018 Tribal RFP

Definitions/Glossary of Terms from Appendix D-2 to Partial Consent Decree MDL No. 2672 CRB (JSC)

"Airport Ground Support Equipment" shall mean vehicles and equipment used at an airport to service aircraft between flights.

"All-Electric" shall mean powered exclusively by electricity provided by a battery, fuel cell, or the grid.

"Alternate Fueled" shall mean an engine, or a vehicle or piece of equipment which is powered by an engine, which uses a fuel different from or in addition to gasoline fuel or diesel fuel (e.g., CNG, propane, diesel-electric Hybrid).

"Certified Remanufacture System or Verified Engine Upgrade" shall mean engine upgrades certified or verified by EPA or CARB to achieve a reduction in emissions.

"Class 4-7 Local Freight Trucks (Medium Trucks)" shall mean trucks, including commercial trucks, used to deliver cargo and freight (e.g., courier services, delivery trucks, box trucks moving freight, waste haulers, dump trucks, concrete mixers) with a Gross Vehicle Weight Rating (GVWR) between 14,001 and 33,000 lbs.

"Class 4-8 School Bus, Shuttle Bus, or Transit Bus (Buses)" shall mean vehicles with a Gross Vehicle Weight Rating (GVWR) greater than 14,001 lbs used for transporting people. See definition for School Bus below.

"Class 8 Local Freight, and Port Drayage Trucks (Eligible Large Trucks)" shall mean trucks with a Gross Vehicle Weight Rating (GVWR) greater than 33,000 lbs used for port drayage and/or freight/cargo delivery (including waste haulers, dump trucks, concrete mixers).

"Drayage Trucks" shall mean trucks hauling cargo to and from ports and intermodal rail yards.

"Forklift" shall mean nonroad equipment used to lift and move materials short distances; generally includes tines to lift objects. Eligible types of forklifts include reach stackers, side loaders, and top loaders.

"Freight Switcher" shall mean a locomotive that moves rail cars around a rail yard as compared to a line-haul engine that move freight long distances.

"Generator Set" shall mean a switcher locomotive equipped with multiple engines that can turn off one or more engines to reduce emissions and save fuel depending on the load it is moving.

"Government" shall mean a State or local government agency (including a school district, municipality, city, county, special district, transit district, joint powers authority, or port authority, owning fleets purchased with government funds), and a tribal government or native village. The term 'State' means the several States, the District of Columbia, and the Commonwealth of Puerto Rico.

"Gross Vehicle Weight Rating (GVWR)" shall mean the maximum weight of the vehicle, as specified by the manufacturer. GVWR includes total vehicle weight plus fluids, passengers, and cargo.

Class 1: < 6000 lb; Class 2: 6001-10,000 lb; Class 3: 10,001-14,000 lb; Class 4: 14,001-16,000 lb; Class 5: 16,001-19,500 lb; Class 6: 19,501-26,000 lb; Class 7: 26,001-33,000 lb; Class 8: > 33,001 lb

"Hybrid" shall mean a vehicle that combines an internal combustion engine with a battery and electric motor.

"Intermodal Rail Yard" shall mean a rail facility in which cargo is transferred from drayage truck to train or vice-versa.

"Port Cargo Handling Equipment" shall mean rubber-tired gantry cranes, straddle carriers, shuttle carriers, and terminal tractors, including yard hostlers and yard tractors that operate within ports.

"Repower" shall mean to replace an existing engine with a newer, cleaner engine or power source that is certified by EPA and, if applicable, CARB, to meet a more stringent set of engine emission standards. Repower includes, but is not limited to, diesel engine replacement with an engine certified for use with diesel or a clean alternate fuel, diesel engine replacement with an electric power source (grid, battery), diesel engine replacement with a fuel cell, diesel engine replacement with an electric generator(s) (genset), diesel engine upgrades in Ferries/Tugs with an EPA Certified Remanufacture System, and/or diesel engine upgrades in Ferries/Tugs with an EPA or CARB certification.

"School Bus" shall mean a Class 4-8 bus sold or introduced into interstate commerce for purposes that include carrying students to and from school or related events. May be Type A-D.

"Tier 0, 1, 2, 3, 4" shall refer to corresponding EPA engine emission classifications for nonroad, locomotive and marine engines.

"Tugs" shall mean dedicated vessels that push or pull other vessels in ports, harbors, and inland waterways (e.g., tugboats and towboats).

"Zero Emission Vehicle (ZEV)" shall mean a vehicle that produces no emissions from the on-board source of power (e.g., All-Electric or hydrogen fuel cell vehicles).