The Volkswagen Settlement and Development of the Massachusetts Beneficiary Mitigation Plan

Massachusetts Department of Environmental Protection

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October 2018



Agenda

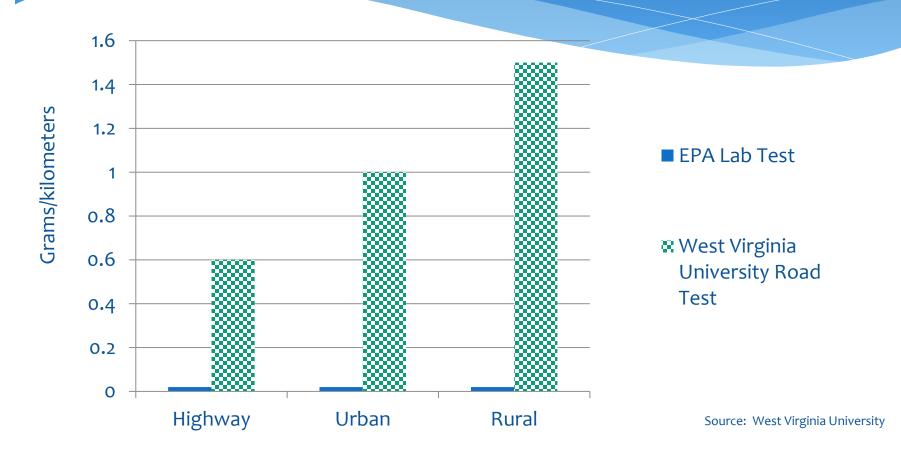
- Background
- Beneficiary Mitigation Plan (BMP)
- ☐ Eligible Mitigation Actions (EMAs)
- Next Steps



VW's Violations

- 2004 Phase in of stronger emission standards for nitrogen oxides (NOx) begins
- 2009 VW begins installing defeat devices on diesel vehicles for next seven model years
- **2014** Researchers find "significantly higher in-use emissions" than certified levels for 2012 Jetta TDI
- **2015** VW admits altering vehicles

2014 VW Jetta Test Results (NOx Emissions)



Affected Vehicles

- > 11 million vehicles worldwide
- > 590,000 2.0 & 3.0 liter engines in US
- ➤ MY 2009 2016
- Owned and leased
- > 14,000+ in MA











VW Settlement Terms



MA's Share & Obligations

- ✓ \$75 million from VW Settlement held in Trust
- ✓ Spend \$ on variety of projects that reduce NOx
- ✓ Develop Beneficiary Mitigation Plan (BMP)



Funding Timeline Possibilities

- √ 10 years to spend 80% of funding (\$60 m) + another
 five years to spend remaining 20% (\$15 m)
- ✓ Option to spend 1/3 of funding (\$25 million) in 1st year & up to 2/3 in first two years (\$50 million)

VW Timeline

Trust
Effective
Date:
Oct. 2, 2017



MA Filed
Beneficiary
Certification:
Nov. 22, 2017



MA is deemed Beneficiary: Jan. 30, 2018

OUTREACH PROCESS

* Held 10 stakeholder meetings

- * MassDEP Southeastern Office, Jan. 29, 1-3 pm
- * Brockton Public Library, Brockton, Jan. 29, 5:30-7:30 pm
- * DEP Northeast Office, Wilmington: Feb. 12, 2-4 pm
- * UMass Lowell Recreation Center, Lowell: Feb. 12, 6-8 pm
- * MassDEP Headquarters, Boston: Feb. 15, 1-3 pm & 6-8 pm
- * MassDEP Central Office, Worcester: Feb. 27, 1-3 pm & 6-8 pm
- * Holyoke Community College, Holyoke: Mar. 19, 2-4 pm & 5:30-7:30 pm
- * Request for Information (RFI)

Closed on 5/18/2018

Massachusetts's Interests

- Consider all EMAs
- Use up to 15% of \$ to develop EV-charging infrastructure to promote electric vehicles
- Use up to 15% for administrative costs if paired w/EMA
- Fund projects that "electrify" transportation system
- Focus on areas serving Environmental Justice (EJ) populations
- Geographic distribution

Draft BMP

- ► Issued on July 19, 2018
 - ➤ Public comments accepted through August 20th
- Proposed \$23.5 million for spend
 - Purchase of electric transit buses in two regions
 - Expansion of the electric vehicle charging infrastructure across Massachusetts
 - An open solicitation for other mitigation actions eligible under the settlement



Eligible Mitigation Actions (EMAs)

- Large Freight & Port Drayage Trucks
- 2. School/Shuttle/Transit Buses
- 3. Freight Switchers
- 4. Ferries/Tugboats
- 5. Shore Power for Ocean Going Vessels (OGV)

- 6. Medium Local Freight Trucks
- 7. Airport Ground Support Equipment (GSE)
- 8. Forklifts & Port Cargo Handling Equipment (CHE)
- Light Duty Zero Emission Vehicle Supply Equipment (EVSE)
- 10. Diesel Emissions Reduction Act (DERA) Option

Appendix D-2: https://www.vwcourtsettlement.com/wp-content/uploads/documents/DOJ/Approved%20Appendix%20D-2.pdf

MassDEP Next Steps

- Submit Final BMP to Wilmington Trust Fall 2018
- Develop project solicitation forms

FOR MORE INFORMATION



MassDEP VW Settlement Email List

https://www.mass.gov/forms/subscribe-to-the-volkswagen-settlements-email-list

#1. Large Local Freight & Port Drayage Trucks

Eligible Engines/Vehicles:

✓ MY 1992-2009 engines

Repower w/new diesel or AF engine

Replace w/new diesel or AF vehicle

Repower w/new all-electric engine *

Replace w/new all-electric vehicle *

- ✓ 33,001 lbs. or more GVWR (Class 8)
- ✓ Operate in MA

Technology Options

Maxi	imum Funding %	
Pov't	Non-Gov't	
00%	40%	
00%	25% (50% for drayage)	
00%	75%	

75%

100%

^{*} Includes purchase & installation of electric charging & fuel cell infrastructure

#2. School, Shuttle and Transit Buses

Eligible Engines/Vehicles:

Replace w/new all-electric vehicle *

 ✓ MY 2009 or older engines ✓ 14,001 lbs.+ (Class 4-8) ✓ Gov't. includes school buses contracting w/public school distri 	ct	2172 S
-		
	Maximum F	unding %
Technology Options	Maximum F Gov't	unding % Non-Gov't
Technology Options Repower w/new diesel or AF engine		
	Gov't	Non-Gov't

75%

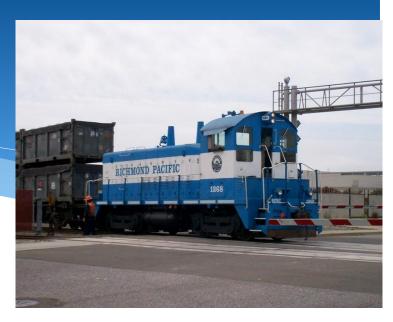
100%

	* Includes	purchase 8	k installation	of electric	charging &	fuel o	cell infrastructure
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#3. Freight Switchers

Eligible Switchers:

- ✓ Pre-Tier 4 engines (MY 2014 & older)
- ✓ Operate ≥1,000 hrs./year



	Maximum Funding %	
Technology Options	Gov't	Non-Gov't
Repower w/new diesel or AF engine or Gen Set	100%	40%
Replace w/new diesel or AF switcher or Gen Set	100%	25%
Repower w/new all-electric engine or Gen Set *	100%	75%
Replace w/new all-electric switcher, incl. Gen Set *	100%	75%

^{*} Includes purchase & installation of electric charging & fuel cell infrastructure

#4. Ferries and Tugs

Eligible Engines:

√ Unregulated, Tier 1 and Tier 2 marine engines



	Maximum Funding %	
Technology Options	Gov't	Non-Gov't
Repower w/new Tier 3 or 4 diesel or AF engine	100%	40%
Repower w/new all-electric engine *	100%	75%

^{*} Includes purchase & installation of electric charging & fuel cell infrastructure

#5. Shore Power for Ocean Going Vessels

Eligible Systems Must:

- ✓ Comply w/international shore power design standards
- ✓ Source power from local grid



	Maximum	Funding %
Technology Option	Gov't	Non-Gov't
Shore-side power system	100%	25%

#6. Medium Local Freight Trucks

Eligible Engines/Vehicles:

- ✓ MY 1992-2009 engines
- ✓ 14,001 33,000 lbs. (Classes 4-7)
- ✓ Operate in MA



	Maximum Funding %	
Technology Options	Gov't	Non-Gov't
Repower w/new diesel or AF engine	100%	40%
Replace w/new diesel or AF vehicle	100%	25%
Repower w/new all-electric engine *	100%	75%
Replace w/new all-electric vehicle *	100%	75%

^{*} Includes purchase & installation of electric charging & fuel cell infrastructure

#7. Airport Ground Support Equipment (GSE)

Eligible Engines/Equipment:

- ✓ Tier O, Tier, 1 or Tier 2 diesel engines
- ✓ Uncertified, or certified to ≥3 g/bhp-hr, spark ignition engines



	Maximum Funding %	
Technology Options	Gov't	Non-Gov't
Repower w/new all-electric engine *	100%	75%
Replace w/new all-electric equipment *	100%	75%

^{*} Includes purchase & installation of electric charging & fuel cell infrastructure

#8. Forklifts and Port Cargo Handling Equipment (CHE)

Eligible Engines/Equipment:

- √ >8,000 lb. lift capacity forklifts and CHE
- ✓ CHE operate at ports

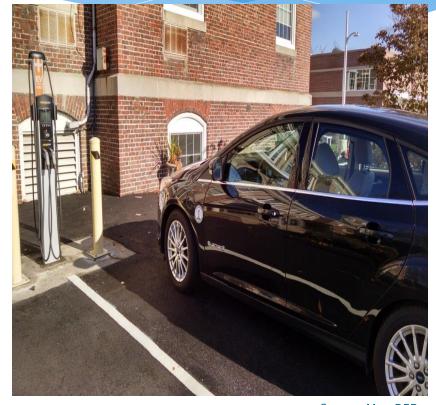


	Maximum Funding %	
Technology Options	Gov't	Non-Gov't
Repower w/new all-electric engine *	100%	75%
Replace w/new all-electric equipment *	100%	75%

^{*} Includes purchase & installation of electric charging & fuel cell infrastructure

#9. Light-Duty Zero Emission Vehicle Supply Equipment (EVSE)

- ✓ Level 1, Level 2 or Fast Charging EVSE in public place, workplace or multiunit dwelling (MUD)
- ✓ Light-duty hydrogen fuel cell EVSE



Source: MassDEP

Zero Emission EVSE

	Maximum
Technology Options	Funding %
EVSE	
- Public use at gov't owned property	100%
- Public use at non-gov't property	80%
- At workplace but not for public use	60%
- At multi-unit dwelling but not for public use	60%
Hydrogen Fuel Cell EVSE	
- Public use & dispenses 250 kg/day	33%
- Public use & dispenses 100 kg/day	25%

#10. Diesel Emissions Reduction Act (DERA) Option

Use \$ for projects not allowed by VW but eligible under DERA

Examples: Repowers, replacements, retrofits, verified idle reduction, low resistance tires, engine upgrades & other technologies

See Environmental Protection Agency (EPA) webpage: https://www.epa.gov/sites/production/files/2017-01/documents/vw-dera-option-elgble-mitig-compar-2017-01.pdf