

# VOLKSWAGEN PARTIAL EMISSION SETTLEMENT

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MWAQC-Technical Advisory Committee  
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# Introduction & Background

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- On June 28, the United States lodged with the Court a settlement that partially resolves allegations that Volkswagen violated the Clean Air Act by the sale of approximately 500,000 vehicles containing 2.0 liter diesel engines equipped with defeat devices
- Consent Decree Effective October 25, 2016
- The settlement consists of three major components:
  - Buyback, lease terminations, or emissions modification on at least 85 percent of the subject vehicles; \$10 billion
  - Invest \$2 billion to promote the use of ZEVs and in setting up ZEV infrastructure over a 10-year period, access and awareness initiatives
  - **Pay \$2.7 billion to fully remediate the excess NO<sub>x</sub> emissions from the subject vehicles (Mitigation Trust Fund)**
- Settlement pending for 3.0l diesel engines

# ZEV Investment

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- VW must invest \$2 billion over 10 years
  - \$1.2 billion National ZEV Investment (excludes CA) to be made over four 30-month cycles, \$300 million each cycle
  - \$800 million California ZEV Investment
- VW investment plan must advance the use and market penetration of ZEVs, have a high likelihood of utilization, provide accessibility/availability where most needed, and build positive awareness of ZEVs
- VW's investments must be additional investments beyond what it planned to invest before the settlement & what is required by law
- For the National ZEV investment, VW is required to develop a National Outreach Plan to solicit input from states, local governments, tribes, & federal agencies

# Eligible ZEV Investment Examples

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- For the \$1.2 billion National ZEV Investment
  - ZEV infrastructure
    - Level 2 charging at multi-unit dwellings, workplaces, and public sites
    - DC fast charging facilities accessible to all vehicles utilizing non-proprietary connectors
    - Later generations of charging infrastructure
    - Hydrogen or other ZEV fueling stations
  - ZEV Education
    - Brand-neutral education or public outreach
    - Goal is to increase public awareness of ZEVs
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  - ZEV Access
    - Programs to increase public exposure and/or access to ZEVs without requiring the consumer to purchase or lease a ZEV at full market value
    - Carshare and ride hailing services, ride and drives



# Mitigation Trust Fund

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**Purpose:** To fund Eligible Mitigation Actions to achieve reductions of NOx emissions in the United States

- \$2.7 billion Trust Fund
- Each state and the District to receive an allocation of funds that can be used for any of the listed eligible mitigation actions (at least \$7.5M)
- The allocation is primarily based on the number of Volkswagen 2.0 Liter Subject Vehicles registered within the jurisdictions of the beneficiaries
- Beneficiary jurisdictions need to spend at least 80% of allocation within 10 years
- Up to 15% can be used for project/program administration by beneficiary

# Mitigation Trust Fund

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A Certification for Beneficiary Status agreement that identifies the lead agency is due within 60 days of the Trust being established (“Trust Effective Date”)

- Light duty ZEV supply equipment:  
Up to 15% or \$1.125M
- Administration (by Beneficiary and any contractors): Up to 15% or \$1.125M

# Eligible Mitigation Projects

## Large Trucks, Buses, and Medium Trucks

### Class 8 Freight, Class 4-8 Buses, Class 4-7 Local Freight

- Government Owned
  - 100% of cost – Engine Repower w/new diesel, AF, Hybrid or Electric engine\*
  - 100% of cost – Scrap and Replace Vehicle w/new diesel, AF, Hybrid or Electric vehicle
- Non-Government Owned
  - 40% of cost – Engine Repower w/new diesel, AF, or Hybrid\*
  - 25% of cost – Scrap and Replace Vehicle w/new diesel, AF, or Hybrid vehicle
  - 75% of cost – Engine Repower w/new All-Electric engine\*
  - 75% of cost – Scrap and Replace Vehicle w/new All-Electric

\* Costs include installation of an engine and charging infrastructure



# Eligible Mitigation Projects

## Forklifts and Port Cargo Handling Equipment

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### Forklifts w/>8000lb lift capacity

- Government Owned
  - 100% of cost – Engine Repower w/All-Electric engine\*
  - 100% of cost – Scrap and Replace Forklift w/All-Electric\*
- Non-Government Owned
  - 75% of cost – Engine Repower w/All-Electric engine\*
  - 75% of cost – Scrap and Replace Forklift w/All-Electric\*

*\* Costs include charging infrastructure (and installation of an engine where applicable)*



# Eligible Mitigation Projects

## Freight Switchers

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### Pre-Tier 4 switcher locomotives that operate >1000 hours per year

- Government Owned
  - 100% of cost – Engine Repower w/new diesel, AF, Hybrid or All-Electric engine or Generator Sets\*
  - 100% of cost – Scrap and Replace Freight Switcher w/new diesel, AF, Hybrid or All-Electric
- Non-Government Owned
  - 40% of cost – Engine Repower w/new diesel, AF, or Hybrid or Gen Sets\*
  - 25% of cost – Scrap and Replace Freight Switcher w/new diesel, AF, or Hybrid
  - 75% of cost – Engine Repower w/All-Electric engine\*
  - 75% of cost – Scrap and Replace w/All-Electric Freight Switcher\*

\* Costs include charging infrastructure (and installation of an engine where applicable)

# Eligible Mitigation Projects

## Ferries, Tugs, & Ocean-Going Vessels Shorepower

### Unregulated, Tier 1, or Tier 2 Marine Engines

- Government Owned
  - 100% of cost – Engine Repower w/new diesel, AF, Hybrid or All-Electric engine\*
- Non-Government Owned
  - 40% of cost – Engine Repower w/new diesel, AF, or Hybrid)\*
  - 75% for Engine Repower w/All-Electric engine\*

**Marine Shorepower** (e.g., cables, cable management systems, shore power coupler systems, distribution control systems, installation, and power distribution components)

- Government Owned
  - 100% of cost associated with the shore-side system
- Non-Government Owned
  - 25% of cost associated with the shore-side system

\* *Costs include charging infrastructure (and installation of an engine where applicable)*

# Eligible Mitigation Projects

## Airport Ground Support Equipment

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**Tier 0, Tier 1, or Tier 2 (diesel equipment); uncertified or certified to 3 g/bhp-hr or higher emissions (spark ignition engine)**

- **Government Owned**
  - 100% of cost – Engine Repower w/All-Electric engine\*
  - 100% of cost – Scrap and Replace Equipment w/new All-Electric\*
- **Non-Government Owned**
  - 75% of cost – Engine Repower w/All-Electric engine\*
  - 75% of cost – Scrap and Replace Forklift w/All-Electric\*

*\* Costs include charging infrastructure (and installation of an engine where applicable)*

# DERA Option

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- Option to use Trust Funds for actions not specifically listed but otherwise eligible under DERA
- Beneficiaries may use Trust Funds for their DERA non-federal voluntary match
- Trust Funds cannot be used to meet DERA non-federal mandatory cost share requirements
- State and tribal DERA grants only

Note: Timing of DERA State FY2017 grants will not match up with availability of trust funds

- Grantees can add voluntary funds (trust funds) later to FY2017 grants or wait until FY2018 grants
- Resources on the DERA Option:
  - [cleandiesel@epa.gov](mailto:cleandiesel@epa.gov); 1-877-623-2322; [www.epa.gov/cleandiesel](http://www.epa.gov/cleandiesel)

# Environmental Justice

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- Environmental Justice communities will benefit from the Mitigation Trust because:
  - Beneficiaries are required to consider Environmental Justice communities in planning
  - The no cost-share requirement for government-owned equipment will allow governments to direct the Trust Funded projects to low-income communities

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