EV Charging
and the Ohio VW Plan

VW Mitigation
Trust Fund

County Stakeholder Meetings
Winter 2019

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• In 2016, the United States and California sued Volkswagen and associated companies, alleging that VW installed **defeat devices** on certain diesel vehicles (model years 2009-2016).

• The devices activated during emissions testing to make vehicles appear compliant with the law, when in fact, during on-road operation, the vehicles emitted **nine to 40 times the allowable amount of nitrogen oxides (NOx)**, a harmful air pollutant.

• **350 tons** of excess NOx emitted in Ohio.
$14 Billion VW Settlement

- Overseen by federal court and court-appointed Trustee
- $10 billion compensation to VW diesel vehicle owners (buyback, repair)
- $2 billion to promote ZEV adoption via Electrify America, LLC
- $2.7 billion to remediate environmental effects of excess NOx emissions across all 50 states, D.C., Puerto Rico and Tribes
Ohio VW and EVs

• Ohio will receive $75 million over 15 years, based on more than 16,000 VW and Audi diesel vehicles registered here with the defeat devices.

• Ohio allocated $11.25 million (the maximum allowable 15%) for electric vehicle charging infrastructure.

• EVs eligible in most vehicle categories as well.
## Ohio Funding Allocations

<table>
<thead>
<tr>
<th>Eligible Mitigation Action</th>
<th>Project Allocation</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>On-Road Fleets</strong></td>
<td></td>
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<tr>
<td>School Buses $15,000,000</td>
<td>$40 million</td>
<td>53%</td>
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<tr>
<td>Transit Buses $15,000,000</td>
<td></td>
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<tr>
<td>Class 4-8 local freight and port drayage trucks and shuttle buses $10,000,000</td>
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<tr>
<td><strong>Non-road/Off-road Fleets and Equipment</strong></td>
<td></td>
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<tr>
<td>Tugboats and Ferries $2,000,000</td>
<td>$19 million</td>
<td>25%</td>
</tr>
<tr>
<td>Switcher Locomotives $5,000,000</td>
<td></td>
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<tr>
<td>Airport GSE, Port Cargo Handling $12,000,000</td>
<td></td>
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<tr>
<td><strong>Infrastructure for Light Duty ZEVs</strong></td>
<td>$11.25 million</td>
<td>15%</td>
</tr>
<tr>
<td><strong>State Administrative Costs (10 Years)</strong></td>
<td>$5.05 million</td>
<td>7%</td>
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</table>
Diesel Mitigation Trust Fund
Ohio Priority Counties

Beneficiary Mitigation Plan

In re: Volkswagen “Clean Diesel” Marketing, Sales Practices, and Products Liability Litigation, MDL No. 2672
CRB (JSC)
Office of Environmental Education
May 31, 2018
$11.25 Million for Electric Vehicle Charging Stations

Ohio EPA is coordinating with Electrify America, utilities and other entities who are also installing charging stations, to avoid duplicating locations.
EV Charging Stations

• Publicly available locations only
• Site host may be public or private
• Priority locations along designated EV Alternative Fuel Corridors
• Mix of Level 2 and DC Fast Charging
  – Level 2 (Statewide) -DCFC (Regional)
• DCFC limited to locations where Phase 3 service is already available

Legend
- EV Corridor - Signage Ready
- EV Corridor - Signage Pending
- Interstate
- US Highway
- County

Update: 03/12/2018
Ohio VW Estimated EV Timeline

- Stakeholder meetings in 26 priority counties to identify possible locations for EV charging stations (Winter 2018–19) (Complete)
- Ohio DAS Invitation to Bid to pre-qualify EVSE vendors for state term contracts (Spring 2019)
- First RFA for EV charging stations* (Fall 2019)
- Second RFA for EV charging stations* (Spring 2020)

*Either Regional DCFC OR Statewide L2 (TBD)
Additional EV Information Resources

- US Department of Energy Alternative Fuels Data Center [afdc.energy.gov](http://afdc.energy.gov) includes charging station locator
- PlugShare Station Locator [www.plugshare.com](http://www.plugshare.com)
- Drive Electric Ohio [www.cleanfuelsohio.org/drive-electric-ohio](http://www.cleanfuelsohio.org/drive-electric-ohio)
Delaware County

Annual Average Daily Traffic Count

- 6,000 - 12,000
- 12,001 - 22,000
- 22,001 - 36,000
- 36,001 - 64,000
- 64,001 - 162,000
- Other Roads

Electric Charging
Source: afdc.energy.gov

- EV Level 2
  - 24 Access
- EV Level 2
  - Restricted Access
- EV DCFC
  - 24hr Access
- EV DCFC
  - Restricted Access
- Tesla

Alternate Fuel Corridor
Source: hepgis.fhwa.dot.gov

- Ready
- Pending
Lorain County

Annual Average Daily Traffic Count
- 8,000 - 12,000
- 12,001 - 20,000
- 20,001 - 29,000
- 29,001 - 46,000
- 46,001 - 78,000
- Other Roads

Electric Charging
Source: afdc.energy.gov
- EV Level 2
  - 24 Access
- EV Level 2
  - Restricted Access
- EV DCFC
  - 24hr Access
- EV DCFC
  - Restricted Access
- Tesla

Alternate Fuel Corridor
Source: hepgis.fhwa.dot.gov
- Ready
- Pending
Lorain-Medina Rural Electric (Service Area)
Madison County

Annual Average Daily Traffic Count
- 5,000 - 10,000
- 10,001 - 15,000
- 15,001 - 50,000
- 50,001 - 80,000
- 80,001 - 133,000
- Other Roads

Electric Charging
Source: afdc.energy.gov
- EV Level 2
  - 24 Access
- EV Level 2
  - Restricted Access
- EV DCFC
  - 24hr Access
- EV DCFC
  - Restricted Access
- Tesla

Alternate Fuel Corridor
Source: hepgis.fhwa.dot.gov
- Ready
- Pending
Mahoning County

**Electric Charging**
Source: afdc.energy.gov
- EV Level 2
  - 24 Access
- EV Level 2
  - Restricted Access
- EV DCFC
  - 24hr Access
- EV DCFC
  - Restricted Access
- Tesla

**Annual Average Daily Traffic Count**
- Blue: 3,000 - 9,000
- Green: 9,001 - 14,000
- Yellow: 14,001 - 20,000
- Orange: 20,001 - 30,000
- Red: 30,001 - 58,000
- Black: Other Roads

**Alternate Fuel Corridor**
Source: hepgis.fhwa.dot.gov
- Green: Ready
- Yellow: Pending

Map of Mahoning County with traffic and charging station information.
Ottawa County

**Annual Average Daily Traffic Count**
- Blue: 3,000 - 4,500
- Green: 4,501 - 7,600
- Yellow: 7,601 - 12,000
- Orange: 12,001 - 20,000
- Red: 20,001 - 45,000
- Black: Other Roads

**Electric Charging**
- Source: afdc.energy.gov
- EV Level 2
  - 24 Access
- EV Level 2 Restricted Access
- EV DCFC
  - 24hr Access
- EV DCFC Restricted Access
- Tesla

**Alternate Fuel Corridor**
- Source: hepgis.fhwa.dot.gov
- Green: Ready
- Yellow: Pending

[Map of Ottawa County with marked traffic counts and electric charging stations.]
Portage County

Annual Average Daily Traffic Count

- 8,000 - 10,100
- 10,101 - 13,000
- 13,001 - 17,000
- 17,001 - 27,000
- 27,001 - 60,000
- Other Roads

Electric Charging
Source: afdc.energy.gov

- EV Level 2
  - 24 Access
- EV DCFC
  - Restricted Access
- EV DCFC
  - 24hr Access
- Tesla

Alternate Fuel Corridor
Source: hepgis.fhwa.dot.gov

- Ready
- Pending
Thank You!

VW Mitigation Trust Fund

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