



IDEM's EV Infrastructure Program through Volkswagen Mitigation Trust

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NEVI Stakeholders Meeting

May 23, 2023



Volkswagen Mitigation Trust Background



Volkswagen Mitigation Trust History

- Volkswagen was found to have developed 2.0 and 3.0 liter diesel vehicles in 2009 through 2016 with computer algorithms that caused the emissions control systems of those vehicles to perform differently during normal vehicle operation than during emissions testing.
- These algorithms, often referred to as a “defeat device,” resulted in excess NOx emissions beyond the U.S. EPA certified limits from these vehicles.
- These actions resulted in a settlement between U.S. EPA and Volkswagen creating the Volkswagen Mitigation Trust.



Volkswagen Mitigation Trust Settlement Financials

- Volkswagen will spend \$14.7 billion to buy back and/or modify affected vehicles and support state and national projects to reduce NOx emissions.
- \$10 billion will be used for consumer buy back and affected vehicle modifications.
- \$2 billion will be used in Zero Emission Vehicle (ZEV) Investment administered by Volkswagen (i.e. Electrify America).
 - ZEV refers to battery electric vehicles, plug-in hybrid electric vehicles, and fuel cell vehicles.
- \$2.9 billion will be used by states for an Environmental Mitigation Trust.



IDEM's EV Infrastructure Program through Volkswagen Mitigation Trust

EV Infrastructure Considerations

IDEM and the Volkswagen Committee agreed that the maximum allowance of 15% should be set aside for light-duty electric vehicle infrastructure. IDEM posted a Request for Information to obtain input from stakeholders on how and where these funds should be distributed. Some of the key outcomes of this outreach include:

- Charging network locations should focus on distance between locations as opposed to location of current EVs
- Direct Current (DC) Fast charging network on Indiana roadways should be the priority with Level 2 (L2) support at workplace, shopping, destination, and multi-unit housing
 - 90% dedicated to DC Fast (\$5,535,000)
 - 10% dedicated to L2 (\$615,000)
- Viable statewide program proposals preferred to a piecemeal approach for statewide coverage



Eligible Charging Equipment Cost-Share Requirements

Indiana will cover costs associated with DCFC and L2 EV charging equipment as long as the sites are available to the public.

EV Charging Equipment Type		Government Agency Publicly Available	Nongovernment Agency Publicly Available
Direct-Current Fast Charge (DCFC)	Maximum Dollars per Location	\$180,000	\$160,000
	Maximum Percentage of Project	90%	80%
Level 2 (L2)	Maximum Dollars per Location	\$9,000	\$8,000
	Maximum Percentage of Project	90%	80%



Quantifiable Scoring Criteria

- **Cost effectiveness (25)** – VW cost per charging station
- **Sustainability (20)** – How likely is the charging station to continue serving the public beyond 5-year requirement
- **Compliments other programs or is a stand-alone statewide program (20)** – Fits in the gaps or covers entire state
- **Leveraging of funds (15)** – Funding level at or above required minimum
- **Project readiness (10)** – How soon can the ground be broken, and the station constructed
- **Quality of site marketing and nearby amenities (10)** – Is site location highly visible and/or are there desirable amenities nearby

EV Charging Applications Overview

- Total of 45 applications received
 - 17 L2 in 111 locations across the state
 - 28 DC Fast in 176 locations across the state
- 93 Indiana cities and towns were included in DC Fast and/or L2 charging station proposals, including:
 - Anderson, Batesville, Bloomington, Boonville, Brazil, Carmel, Chesterton, Clarksville, Columbus, Corydon, Crown Point, Elkhart, Evansville, Fort Wayne, Gary, Goshen, Greensburg, Huntington, Indianapolis, Jasper, Jeffersonville, Lafayette, Marion, Merrillville, Michigan City, Muncie, Noblesville, Petersburg, Richmond, Seymour, South Bend, Terre Haute, Valparaiso, Washington, Whiting



L2 Applications and Awards

- 17 applications for 111 locations across Indiana
- 15 applications for 55 locations directly from site hosts or sponsors
- 2 applications for 56 locations from applicants for sites also included in their respective DC Fast applications

Total Project Cost	Total VW Requests	Average Cost per Location	Total Cost-Share from Applicants
\$2,546,136	\$978,000	\$8,811	\$1,568,136

- IDEM awarded the 15 local site hosts resulting in 55 L2 charging stations across the state
- IDEM is investing \$502,000 in L2 chargers across Indiana
- The potential uses of the remaining \$113,000 are still be considered

Level 2 Charging Infrastructure Program Projects

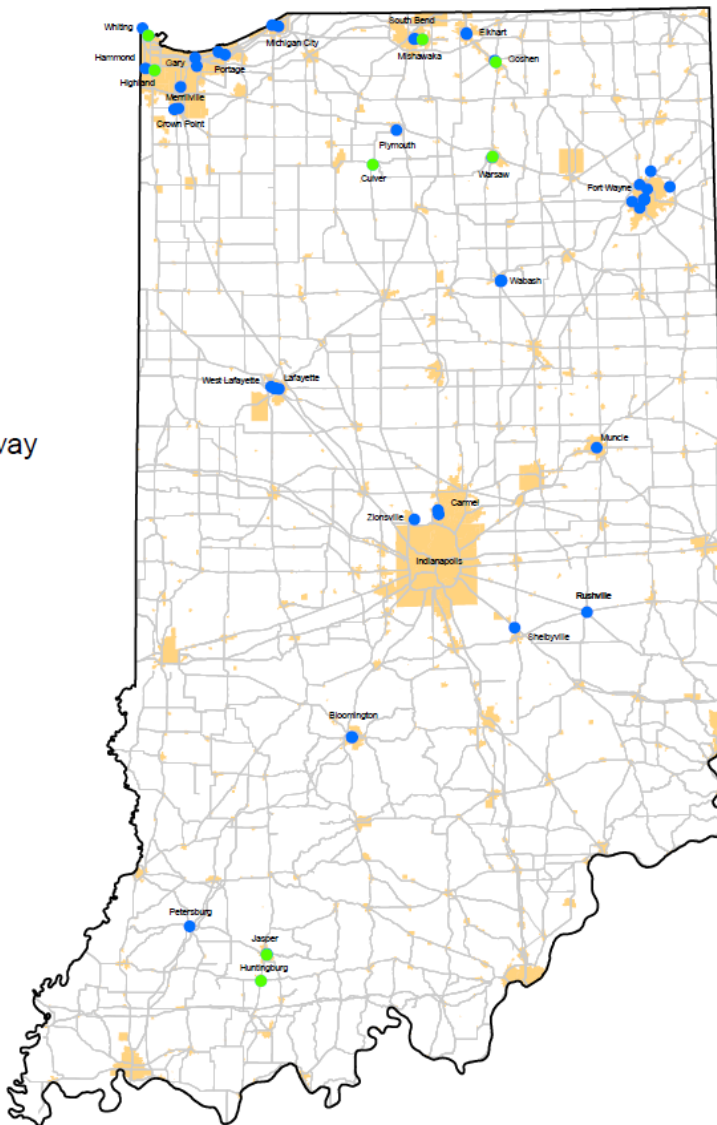
Project Counts

- 18 applications received for 111 stations
- 55 stations awarded in 30 communities
- 10 projects completed to date totaling 12 charging stations

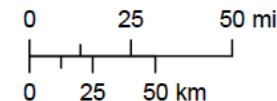
- L2 Charging Stations Underway
- Completed Project
- Highways
- City/Town

Notes:
 This map is intended to serve as an aid in graphic representation only. This information is not warranted for accuracy or other purposes.

Mapped By: C. Mitchell,
 Office of Air Quality
Date: 02/21/2023
Map Projection: UTM Zone 16 N
Map Datum: NAD83



Volkswagen L2 Charging Stations



DC Fast Proposals and Recommendation

- 28 applications for 176 locations across Indiana
 - 24 applications for 35 locations came directly from site hosts or local sponsors
 - 4 applications for 141 locations that represent a holistic statewide approach for implementation

Total Project Costs	Total VW Requests	Average Cost per Location	Total Cost-Share from Applicants
\$34,119,695	\$22,638,765	\$128,629	\$11,480,930

- Scoring of applications did not create notable separation of projects
 - IDEM followed up with 4 holistic statewide applicants
 - Pursue additional information through clarifying questions with the four applicants that provided a holistic statewide approach for Indiana
 - Provide IDEM with information to make a full and fair comparison between these applicants within ~90 days

Key Clarifying Questions Asked of Final 4 DC Fast Applicants

The list below is not all-inclusive but does represent the key requests made to create a more 'apples to apples' review process.

- If funding allowed, would/could you expand beyond sites included in original application to fill in gaps?
- Provide specific site address and site plans for each location.
- Provide clear description of amenities within short walking distance.
- Will this site be future-proofed for expansion and/or higher kW needs?
- Provide a detailed line-item budget for each location.

IDEM Recommendations

A great opportunity to capitalize on the key strengths of eight Indiana businesses exists.

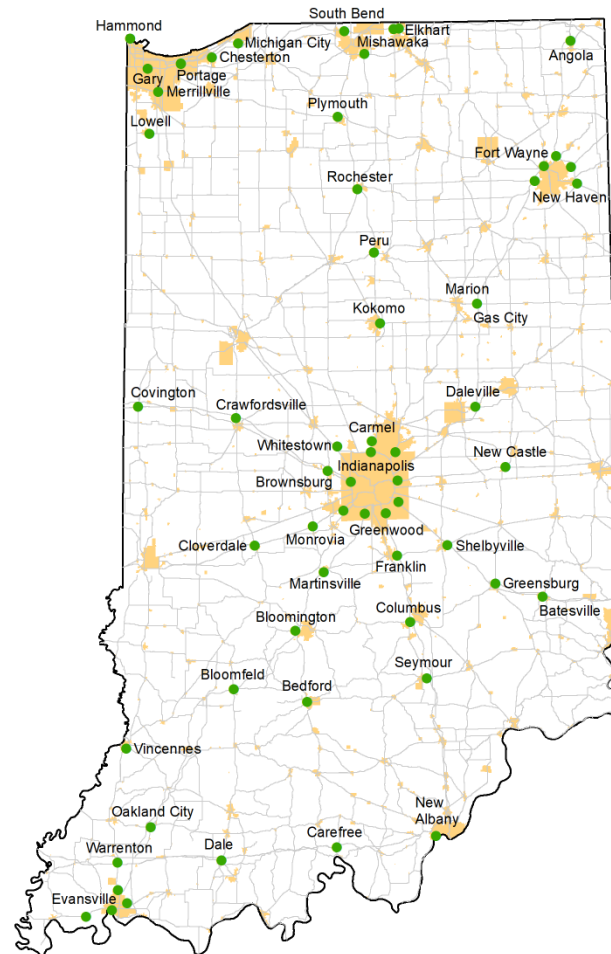
DC Fast recommendation

- Award the total amount of \$5,535,000 to the Indiana Utility Group for the installation of no less than 61 DC Fast charging stations

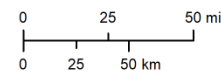
DC Fast rational

- Indiana Utility Group provides the greatest number of stations across Indiana at the lowest price per station
- Indiana utility providers have a long-term investment in the success of EV charging stations
- Indiana utility providers have built an 8-member cooperative to share best practices and will work together for a successful statewide program

Proposed Indiana DC Fast Charging Locations by the Indiana Utility Group (IUG) (May 2021)



- Electric Vehicle Charging Locations
- Highways
- City/Town



Notes: This map is intended to serve as an aid in graphic representation only. This information is not warranted for accuracy or other purposes.
Mapped By: C. Mitchell, Office of Air Quality Date: 05/26/2021 Map Projection: UTM Zone 16 N Map Datum: NAD83



Development of Statewide EV Infrastructure Education, Outreach, and Marketing Program



Education, Outreach, and Marketing Plan Review

May 14, 2021 VW Committee Meeting

- IDEM recommended to the VW Committee the pursuit of a statewide Education, Outreach, and Marketing (EOM) campaign
- The VW Committee supported the concept, but directed IDEM to request proposals exclusively for an EOM plan to allow for open competition

June 16 through July 16, 2021

- IDEM posted formal EOM request to VW Portal
- During the application period, IDEM received several calls and emails from potential applicants
- Most potential applicants' inquiries were related to whether IDEM was open to a submittal for only one component of the overall program (generally marketing) as they didn't have strength in the other two components
- IDEM received only one application for the statewide EOM plan from South Shore Clean Cities (SSCC), now Drive Clean Indiana (DCI)

October 28, 2021

- IDEM enters into a formal 5-year contract with Drive Clean Indiana to provide a statewide Education, Outreach, and Marketing program (more from them later)

REV Midwest

- Grew out of the efforts of the Midcontinent Transportation Electrification Collaborative (IDEM is an original member)
- Bipartisan support from Indiana, Illinois, Wisconsin, Minnesota, and Michigan
- Focused on a cooperative effort to work with industry professionals in the development of a transportation network that will meet the demands of electric vehicles now and into the future
- As the Crossroads of America, Indiana will play a significant role in supporting the Midwest's development of a sustainable electric vehicle infrastructure for light-duty, medium-duty, and heavy-duty vehicles



For More Information



Indiana Volkswagen Mitigation Trust Program website:
www.idem.IN.gov/airquality/2712.htm

DieselWise Indiana website:
www.idem.IN.gov/airquality/2561.htm



For program assistance:

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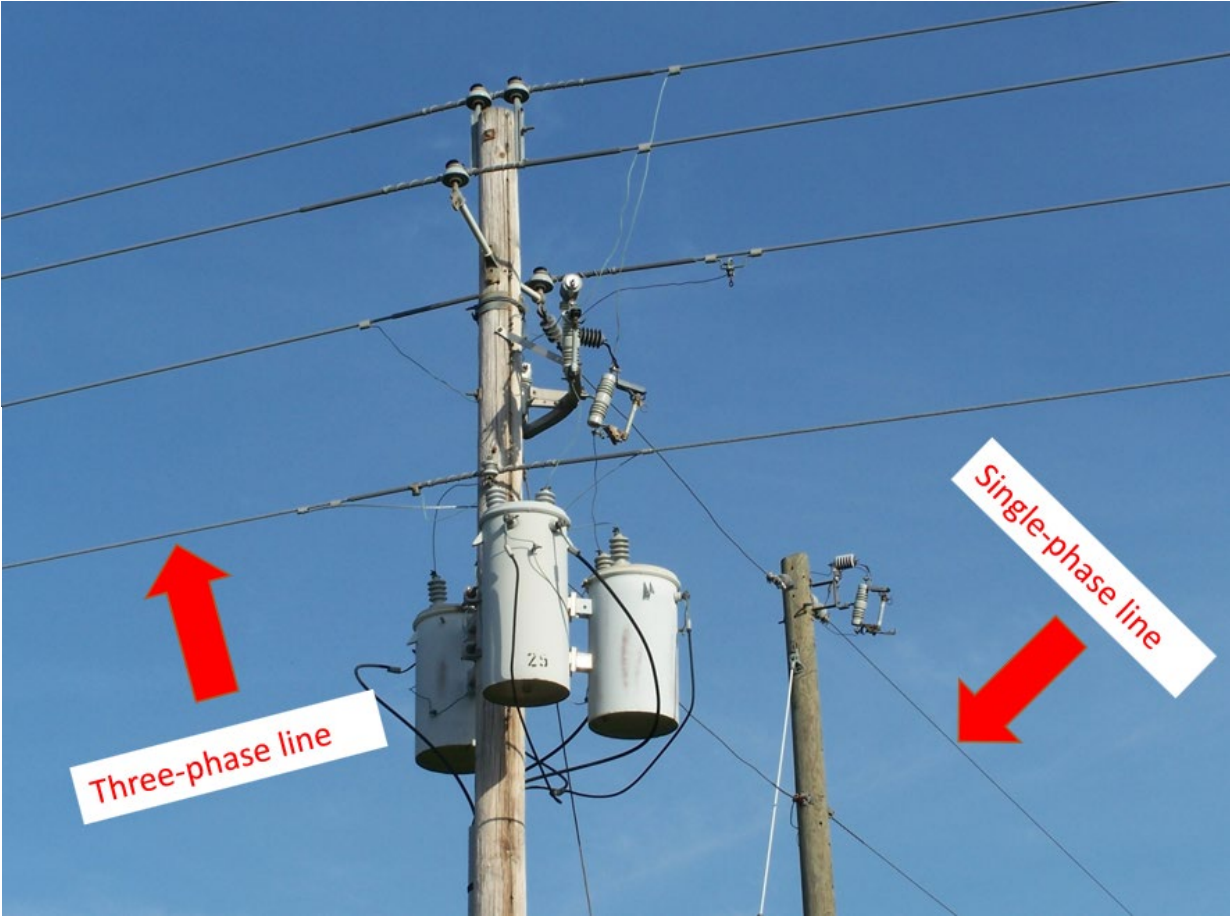
NEVI Stakeholders Meeting Utilities Engagement & Coordination

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Wabash Valley
POWER ALLIANCE

Three phase and single phase



Link to Indiana maps

- Interactive NEVI map

<https://experience.arcgis.com/experience/20dc3f35bc0642458e5cf31deb2aa8ab/?view=Splash-2---background>

- Electric utility service areas

- <https://indianamap-inmap.hub.arcgis.com/datasets/INMap::electric-power-transmission-lines-2022/explore?location=39.088441%2C-86.172020%2C7.67>