

Wednesday, November 18, 2020
10:00 a.m.

Virtual Meeting via [Zoom](#)

Link to Event: <https://zoom.us/j/92889254888?pwd=aWF3NTJjekdQbkIvQ29FTXE0bEZmUT09>

- I. Welcome - Chair, Beverly Gard
 - II. Call to Order - Chair, Beverly Gard
 - A. Overview of virtual meeting format (IDEM Media Staff)
 - III. Rounds 1 & 2 Onroad-Nonroad Project Implementation/DERA Option
 - A. Status Report - IDEM
 - IV. Electric Charging Infrastructure Level 2 Proposals
 - A. Overview of Applications and Scoring – IDEM
 - B. Level 2 Charging Award Recommendations – IDEM
 - C. Committee Discussion
 - D. Committee Action
 - V. Electric Charging Infrastructure DC Fast Charge Proposals
 - A. Overview of Applications and Scoring – IDEM
 - B. Qualitative Considerations Associated with Proposals – IDEM
 - C. Short-list of Statewide Network Applications for Further Consideration - IDEM
 - D. Recommendation for Supplemental Information Gathering - IDEM
 - E. Committee Discussion and Direction
 - VI. 2020 and 2021 In Perspective
 - A. Schedule of Milestones - IDEM
 - B. Preliminary Meeting Schedule - IDEM
 - VII. Public comment – Open question and comment period for stakeholders
 - VIII. Closing remarks – Chair, Beverly Gard
 - IX. Adjournment
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Indiana Volkswagen Environmental Mitigation Trust Program

**Diesel Program Updates and Electric Vehicle
Charging Network Recommendations and
Considerations**

November 18, 2020



Onroad/Nonroad and DERA Option Programs Update



Volkswagen Diesel Reduction Projects Update

- Round 1 Onroad and Nonroad projects completed or proceeding on schedule
 - 13 of 32 projects completed and submitted to VW Trustee for reimbursement totaling \$3.08 million
- Round 1 DERA Option projects completed or proceeding on schedule
 - One of five projects completed and submitted to VW Trustee for reimbursement totaling \$143,944
- Round 2 Onroad and Nonroad projects being implemented or working through Funding Agreement process
 - 15 of 17 projects have completed Funding Agreement process and are underway
- Round 2 DERA Option RFP is open until November 23



Electric Vehicle (EV) Charging Network Goals and Objectives

EV Charging Network Goals and Objectives

Highlights from May meeting:

- 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 and 10% dedicated to L2
- Viable statewide program proposals preferred to a piecemeal approach for statewide coverage



EV Charging Network Application Overview

EV Charging Equipment and Allocations

- Total of \$6,150,000 made available for EV charging across Indiana
 - \$615,000 (10%) initially dedicated to L2 charging equipment
 - Typically charges 80 miles of range in 210 minutes
 - Suited to local EV owners who want to add a few miles of range while they are parked at work, in a parking garage, visiting local sites, or doing some retail shopping
 - \$5,535,000 (90%) initially dedicated to DC Fast equipment
 - Typically charges 80 miles of range in 30 minutes
 - Suited to the longer-distance EV traveler who needs a quick charge during a stop for fast food, snacks, or to stretch their legs while they are travelling across the state or country

EV Charging Application 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



Level 2 (L2) Proposals and Recommendation

L2 Proposals and Recommendation

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

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

- IDEM recommendation for L2 statewide charging network:
 - Fund 15 local site host and locally sponsored applications
 - 55 locations across the state at a cost of \$502,000
 - Remaining \$113,000 applied to “backup” L2 locations for DC Fast sites and/or expansion of L2 locations to the local host and sponsor applications

Volkswagen L2 Charging Station Applications

Address

- L2 Charging Station (55)

— Highways

■ City/Town

Notes:

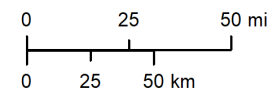
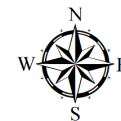
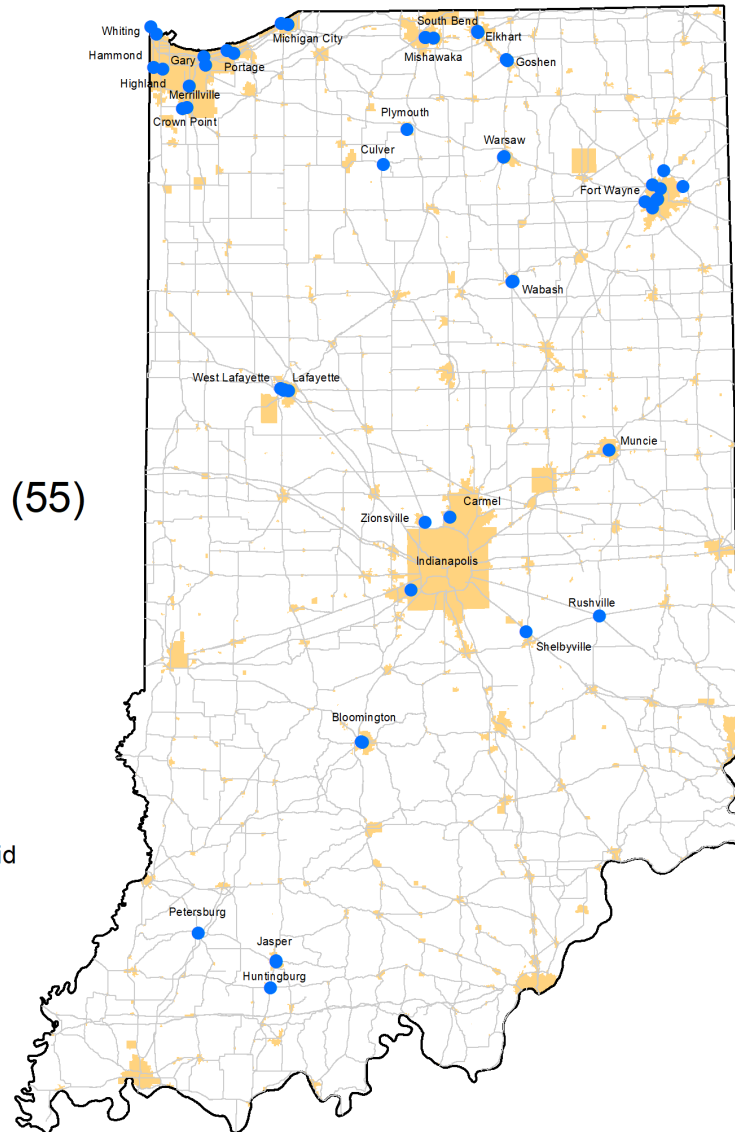
This map is intended to serve as an aid in graphic representation only. This information is not warranted for accuracy or other purposes.

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Office of Air Quality

Date: 11/13/2020

Map Projection: UTM Zone 16 N

Map Datum: NAD83





Direct Current (DC) Fast Charge Proposals and Recommendation

DC Fast Proposals and Recommendation

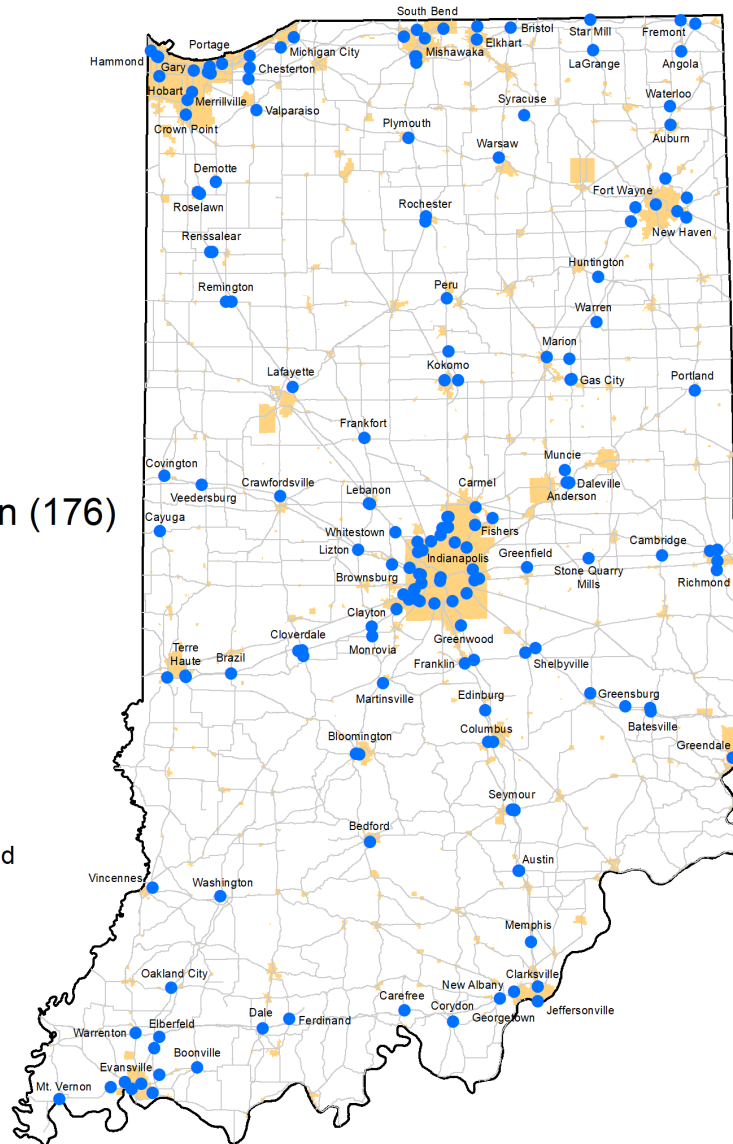
- 28 applications for 176 locations across Indiana
 - 24 applications directly from site hosts or sponsors
 - Four applications for 141 locations that represent a holistic statewide approach for implementation

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

- IDEM recommendation for DC Fast charging network
 - Scoring of applications did not create notable separation of projects; IDEM recommends the following:
 - 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

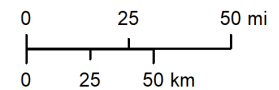
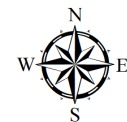
Indiana Volkswagen DCFC Electric Vehicle Charging Station Applications

- DCFC Charging Station (176)
- Highways
- City/Town



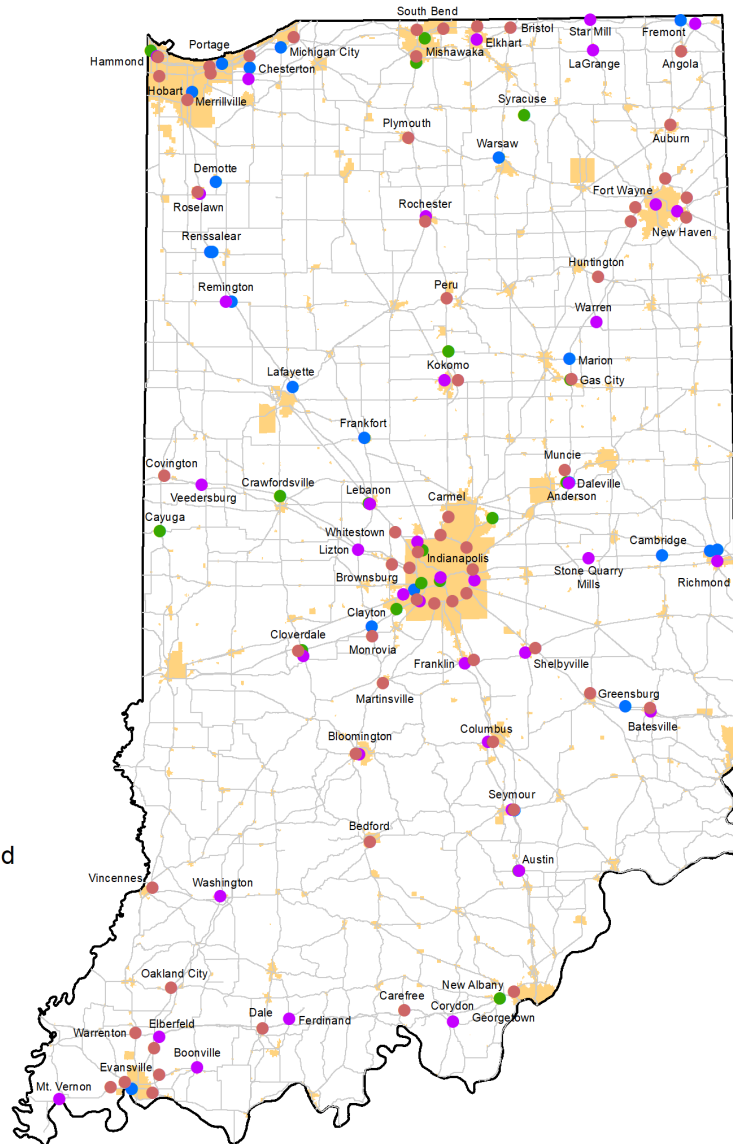
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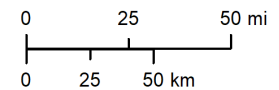
Indiana Volkswagen DCFC Electric Vehicle Charging Station Short List

- OPT4EV
- ZEF Energy
- Project Plug IN
- Indiana Utility Group
- Highways
- City/Town



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ZEF Energy Highlights

- 38 locations across Indiana managed through a single contact
- Total of 180 kW per location
- Cost per site of \$143,623 for a total ask of \$5,457,663
- Geographic distribution covers most major Indiana priority roadways
 - Most interstates addressed
 - Many highways addressed
- Project locations are general and don't include specific site hosts or addresses
- Clear and concise budget for overall project
- Clear and concise schedule of milestones for project implementation
- Currently implementing similar project for State of Minnesota

Project Plug IN Highlights

- 23 locations across Indiana managed through a single contact
- Total of 125 kW per location
- Cost per site of \$158,174 for a total ask of \$3,638,000
- Geographic distribution covers many of Indiana priority roadways
 - Most interstates addressed
 - Many highways addressed
- Project locations are specific and include addresses
- Project locations have desired amenities onsite
 - Locations are primarily existing gas stations or travel centers
- Clear and concise budget for overall project
- Clear and concise schedule of milestones for project implementation

Opt4EV Highlights

- 18 locations across Indiana managed through a single contact
- Total of 100 kW per location (plus one at 175 kW)
- Cost per site of \$114,852 for a total ask of \$2,067,344
- Geographic distribution covers much of Indiana priority roadways
 - Several interstates addressed
 - Some highways addressed
- Project locations are specific and include addresses
- Project locations have desired amenities onsite
 - Locations are existing gas stations, travel centers, and hotels
- Clear and concise budget for overall project
- Clear and concise schedule of milestones for project implementation

Indiana Utility Group Highlights

- 62 locations across Indiana managed through seven awards and contacts
- No reference to planned equipment or kW per location
- Cost per site of \$89,274 for a total ask of \$5,535,000
- Geographic distribution covers most of major Indiana priority roadways
 - All interstates addressed
 - Most highways addressed
- Project locations are general and don't include site hosts or addresses
- No clear budget for overall project
- General schedule of milestones for project implementation

Example Clarifying Questions for Applicants

- Note: only short-list applicants receive full list of questions/requests; list is not all-inclusive, and questions may not be relevant to each applicant
 - Will this site be future-proofed for expansion and/or higher kW needs?
 - Provide specific site address and site plans for each location.
 - Provide clear description for amenities within short walking distance.
 - If funding allowed, would/could you expand beyond sites included in original application to fill in gaps?
 - If possible, provide references for L2 or DC Fast charging network programs you have managed.



Opportunity for Committee to Seek Direct Responses to Specific Questions of Clarification from Applicants Present



Committee Discussion and Direction



2020 and 2021 in Perspective



2020 - 2021 Schedule of Milestones

Milestone	Estimated Completion	Volkswagen Committee Involvement
L2 EV Charging Network awards announced	Today	Review and/or approve
Round 2 DERA Option closing date	November 23, 2020	NA
DC Fast EV Charging Network clarifying questions to short-list applicants	December 1, 2020	NA
Round 2 DERA Option awards announced and Round 3 RFP change discussion	January 2021	Review and/or approve
DC Fast EV Charging Network awards announced	March 2021	Review and/or approve
Round 3 Onroad and Nonroad RFP Posted (60 days)	March 2021	NA
Round 3 Onroad and Nonroad awards announced	July 2021	Review and/or approve



2021 Preliminary Meeting Schedule

Related Program	Potential Meeting Date	Volkswagen Committee Involvement
Round 2 DERA Option awards announced	January 2021	Review and/or approve
DC Fast EV Charging Network awards announced	March 2021	Review and/or approve
Round 3 Onroad and Nonroad awards announced	July 2021	Review and/or approve



Public Comments



For More Information

Indiana Volkswagen Mitigation Trust Program website:

www.idem.IN.gov/vwtrust

For program assistance:

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