

APPENDIX D-4
Beneficiary Eligible Mitigation Action Certification

BENEFICIARY ELIGIBLE MITIGATION ACTION CERTIFICATION

Beneficiary: State of Illinois

Lead Agency Authorized to Act on Behalf of the Beneficiary: Illinois Environmental Protection Agency (Illinois EPA)

Action Title:	Electric School Bus Replacements
Beneficiary's Project ID:	2019-004
Funding Request No.:	5
Request Type: (select one or more)	<input checked="" type="checkbox"/> Reimbursement <input type="checkbox"/> Advance <input type="checkbox"/> Other (specify): _____
Payment to be made to: (select one or more)	<input type="checkbox"/> Beneficiary <input checked="" type="checkbox"/> Other (specify): <u>Triad Community Unit School District #2</u>
Funding Request & Direction: (Attachment A)	<input type="checkbox"/> Attached to this Certification <input checked="" type="checkbox"/> To be Provided Separately

SUMMARY

Eligible Mitigation Action Action Type	<input checked="" type="checkbox"/> Appendix D-2 item (specify): <u>2. Class 4-8 School Bus Replacement and Administrative Expenditures</u> <input type="checkbox"/> Item 10 – DERA Option (5.2.12) (specify and attach DERA Proposal)
Explanation of how funding request fits into Beneficiary's Mitigation Plan (5.2.1):	
<p>Illinois' BMP allocates up to 10 percent (or up to approx. \$10,867,968) to replace older diesel school buses with all-electric school buses and charging infrastructure and up to 2 percent for administrative costs (Section IV(D)(3), (7) p. 17, 19).</p>	
Detailed Description of Mitigation Action Item Including Community and Air Quality Benefits (5.2.2):	
<p>This project involves the replacement of three Class 7 engine model year 2007 diesel school buses with three new Class 6 engine model year 2019 or newer all-electric school buses owned by Triad Community Unit School District #2, located in Madison County of the Metro-East St. Louis ozone nonattainment area and identified as "Priority Area 2" in Illinois' BMP. The grant award was established at 75% of eligible costs for the electric school buses and any necessary charging units, with a maximum funding availability of \$650,000. For this project, two of the electric school buses will be funded at 75% (\$507,000) and one charging unit will also be funded at 75% (\$1,646.25). However, due to the available funding limit, the third electric school bus is being partially funded at \$141,353.75. Replacing the older diesel buses with the new electric buses will result in reductions of NOx and other pollutants thereby providing air quality benefits to the area and the children served by the buses.</p>	
Estimate of Anticipated NOx Reductions (5.2.3):	
<p>It is anticipated that the project will result in 0.16 tons of annual NOx reductions.</p>	

Identification of Governmental Entity Responsible for Reviewing and Auditing Expenditures of Eligible Mitigation Action Funds to Ensure Compliance with Applicable Law (5.2.7.1):

Illinois EPA

Describe how the Beneficiary will make documentation publicly available (5.2.7.2) The public may access documentation and records relative to the State of Illinois' administration of Trust Funds by submitting a request to the Illinois EPA pursuant to the Illinois Freedom of Information Act (5 ILCS 140/1, et. seq.). The Illinois EPA has regulations ("Access to Public Records of the Illinois Environmental Protection Agency," 2 Ill. Adm. Code Part 1828) that provide the framework by which Illinois EPA public records may be requested, accessed, inspected, duplicated, and further lists the records what will not be disclosed to the public, including records that contain personally-identifiable information and confidential business information. Trade secret and confidential business information claims are reviewed by the Illinois EPA in accordance with procedures and rules provided in 35 Ill. Adm. Code Part 130 and 2 Ill. Adm. Code Part 1828.

The Illinois EPA will make certain documentation and records relative to its administrative of Trust Funds available on its Driving a Cleaner Illinois webpage. The Illinois EPA's Beneficiary Mitigation Plan ("BMP") was made available to the public for review and comment, and the final BMP is available through the Illinois EPA's Driving a Cleaner Illinois webpage. The Illinois EPA will make available funding opportunities and related information and documents through this webpage. Further, the Illinois EPA will maintain and make available for public review all documentation submitted in support of funding requests and all records supporting all expenditures of eligible mitigation action funds consistent with the aforementioned laws and regulations.

Describe any cost share requirement to be placed on each NOx source proposed to be mitigated (5.2.8):

Environmental Mitigation Trust Funds will provide 75% funding for two of the buses and one charger unit, with the third bus receiving partial funding due to the \$650,000 funding limit. Triad CUSD #2 will provide a 25% cost share for the two electric buses and charger unit funded at 75%, and the remaining cost of the partially funded bus, with a total cost share for Triad CUSD #2 in the amount of \$366,195.

Describe how the Beneficiary complied with subparagraph 4.2.8, related to notice to U.S. Government Agencies (5.2.9):

Illinois EPA provided the requisite notice via email to the appropriate agencies on February 27, 2018.

If applicable, describe how the mitigation action will mitigate the impacts of NOx emissions on communities that have historically borne a disproportionate share of the adverse impacts of such emissions (5.2.10):

The new electric school buses will operate in an ozone nonattainment area and serve an elementary school. This project will reduce emission impacts in this nonattainment area and to the communities and students served.

ATTACHMENTS
(CHECK BOX IF ATTACHED)

<input type="checkbox"/>	Attachment A	Funding Request and Direction.
<input checked="" type="checkbox"/>	Attachment B	Eligible Mitigation Action Management Plan Including Detailed Budget and Implementation and Expenditures Timeline (5.2.4).
<input checked="" type="checkbox"/>	Attachment C	Detailed Plan for Reporting on Eligible Mitigation Action Implementation (5.2.11).
<input checked="" type="checkbox"/>	Attachment D	Detailed cost estimates from selected or potential vendors for each proposed expenditure exceeding \$25,000 (5.2.6). [Attach only if project involves vendor expenditures exceeding \$25,000.]
<input type="checkbox"/>	Attachment E	DERA Option (5.2.12). [Attach only if using DERA option.]
<input type="checkbox"/>	Attachment F	Attachment specifying amount of requested funding to be debited against each beneficiary's allocation (5.2.12). [Attach only if this is a joint application involving multiple beneficiaries.]

CERTIFICATIONS

By submitting this application, the Lead Agency makes the following certifications:

1. This application is submitted on behalf of the Beneficiary State of Illinois, and the person executing this certification has authority to make this certification on behalf of the Lead Agency and Beneficiary, pursuant to the Certification for Beneficiary Status filed with the Court.
2. Beneficiary requests and directs that the Trustee make the payments described in this application and Attached A to this Form.
3. This application contains all information and certifications required by Paragraph 5.2 of the Trust Agreement, and the Trustee may rely on this application, Attachment A, and related certifications in making disbursements of trust funds for the aforementioned Project ID.
4. Any vendors were or will be selected in accordance with a jurisdiction's public contracting law as applicable. (5.2.5)

5. Beneficiary will maintain and make publicly available all documentation submitted in support of this funding request and all records supporting all expenditures of eligible mitigation action funds subject to applicable laws governing the publication of confidential business information and personally identifiable information. (5.2.7.2)

DATED: 10/2/19



Name: Julie K. Armitage

Title: Chief, Bureau of Air

Illinois Environmental Protection Agency

LEAD AGENCY

For

State of Illinois

BENEFICIARY

PROJECT BUDGET

Electric School Bus Replacements

Budget Category	Total Approved Budget	Share of Total Budget to be Funded by the Trust	Cost-Share Triad CUSD #2
Equipment Expenditure	\$1,016,195	\$650,000	\$366,195
IEPA Administration @2%	\$13,000	\$13,000	
Project Totals	\$1,029,195	\$663,000	\$366,195
Percentage of Equipment Expenditure	100%	64.4%	35.6%

PROJECTED TRUST ALLOCATIONS

Illinois' Allocation	\$108,679,676.98
Obligated Awards from Previous D-4 Submittals for Projects #1-4 (Equipment + Administration Costs)	\$19,616,033.32
Illinois' Net Allocation	\$89,063,643.66
Current D-4 Project Funding Request (Project #5 Electric School Bus Replacements)	\$663,000
Illinois' Remaining Unobligated Allocation	\$88,400,643.66

Project #4: Anticipated Budget Year Distribution of Project Costs (Equipment + Admin.)	2020 (3 electric school buses)	2021	2022
1. Anticipated Annual Project and Administrative Funding request to be paid through the Trust	\$663,000		
2. Anticipated Annual Cost Share	\$366,195		
3. Anticipated Total Project Funding by Year	\$1,029,195		

ATTACHMENT B

Eligible Mitigation Action Management Plan Including Detailed Budget and Implementation and Expenditures Timeline (5.2.4)

Electric School Bus Replacements

Pursuant to Section 5.2.4 of the Environmental Mitigation Trust Agreement, the Illinois EPA provides the following Eligible Mitigation Action Management Plan. The milestone dates and yearly budget distributions provided are estimates and are subject to change based on the date of grant agreement execution and other variables.

Project Implementation Schedule and Milestones

Project: Triad Community Unit School District #2
ID: 2019-004

Period of Performance: November 2019 – June 2020

Milestone	Estimated Date
Illinois EPA enters into Grant Agreement	10/30/19
Applicant enters into Purchase Agreement/Places Order	11/30/19
Delivery of Vehicle(s) from Vendor	5/1/20
New Vehicle(s) put into Service	5/15/20
Existing Vehicle(s) Scrapped	5/30/20
Applicant provides detailed invoices for all claimed project costs and required final project certification documents to Illinois EPA to support direction to Trustee for Payment (Reimbursement, Direct-to-Vendor)	6/30/20
Illinois EPA Completes Review and Certifies Payment Direction to Trustee (Reimbursement)	7/15/20
Trustee Acknowledges Receipt of Direction for Payment(s) (Reimbursement)	7/30/20
Illinois EPA submits Final Report for Project Completion	1/30/21

ATTACHMENT C

Detailed Plan for Reporting on Eligible Mitigation Action Implementation (5.2.11) Electric School Bus Replacements

Pursuant to Sections 5.2.11 and 5.3 of the Environmental Mitigation Trust Agreement, the Illinois EPA provides this project implementation reporting plan for the electric school bus replacement project undertaken by Triad Community Unit School District #2. This detailed plan for reporting incorporates applicable State of Illinois grantee reporting requirements as well as Illinois' obligation to comply with the semi-annual reporting requirement contained in Section 5.3 of the Environmental Mitigation Trust Agreement. Triad Community Unit School District #2 will provide the reports as specified below to the Illinois EPA. Further, the Illinois EPA will provide semi-annual reports to the Volkswagen Trustee as specified below and as required based on the reporting information received from the grantees. The reporting deadlines contained herein are estimates and are subject to change based on the date of grant agreement execution and other variables.

Grantee: Triad Community Unit School District #2
Project ID: 2019-004

Reports and Reporting Schedule

Estimated execution of grant agreement and start of project:	October 30, 2019
Due date of monthly project report #1 from Grantee to Illinois EPA:	November 15, 2019 (October 2019)
Due date of monthly project report #2 from Grantee to Illinois EPA:	December 15, 2019 (November 2019)
Due date of monthly project report #3 from Grantee to Illinois EPA:	January 15, 2020 (December 2019)
Due date of semi-annual project report #1 from Illinois EPA to Trustee:	January 30, 2020 (July – December 2019)
Due date of monthly project report #4 from Grantee to Illinois EPA:	February 15, 2020 (January 2020)
Due date of monthly project report #5 from Grantee to Illinois EPA:	March 15, 2020 (February 2020)
Due date of monthly project report #6 from Grantee to Illinois EPA:	April 15, 2020 (March 2020)
Due date of monthly project report #7 from Grantee to Illinois EPA:	May 15, 2020 (April 2020)
Due date of monthly project report #8 from Grantee to Illinois EPA:	June 15, 2020 (May 2020)
Due date of monthly project report #9 from Grantee to Illinois EPA:	July 15, 2020 (June 2020)
Due date of semi-annual project report #2 from Illinois EPA to Trustee:	July 30, 2020 (January – June 2020)
Due date of final project report from Grantee to Illinois EPA:	June 30, 2020
Due date of final project report from Illinois EPA to Trustee:	January 30, 2021

Report Content

Grantees and Illinois EPA reports will contain, at a minimum, the following information:

1. Summary of all costs expended through the reporting period and to date
2. Project status and development and implementation accomplishments
3. Any project modifications as compared to the original plan
4. Actual or projected project completion or grant termination date

ATTACHMENT D

Detailed Cost Estimates from Selected or Potential Vendors for each Proposed Expenditure Exceeding \$25,000 (5.2.6) Electric School Bus Replacements

Pursuant to Section 5.2.6 of the Environmental Mitigation Trust Agreement, Illinois EPA provides the following detailed cost estimate for the electric school bus replacement project to be undertaken by Triad Community School District #2. Vendor cost estimates are attached.

Grantee: Triad Community Unit School District #2
Project ID: 2019-004

Vehicle	Vehicle/Equipment Cost	Eligible Cost
2019 or newer Starcraft eQuest XL	\$338,000	\$253,500
2019 or newer Starcraft eQuest XL	\$338,000	\$253,500
2019 or newer Starcraft eQuest XL	\$338,000	\$141,353.75
Clipper Creek CS-100 Charging Unit	\$2,195	\$1,646.25
TOTAL	\$1,016,195	\$650,000

Quantity 3 MY 2019 or newer Starcraft eQuest XL electric school buses (@\$338,000 per bus) \$1,014,000

Quantity 1 Clipper Creek, Inc. CS-100 Electric Vehicle Charging Unit (charger only) \$2,195

Total Eligible Project Costs: **\$1,016,195**

Trust Fund Request @75% for 2 electric school buses (@\$253,500 per bus): **\$507,000**

Trust Fund Request for 3rd electric school bus partially funded due to funding limit: **\$141,353.75**

Trust Fund Request @75% for electric charger unit @75%: **\$1,646.25**

Illinois EPA 2% Administrative Costs: **\$13,000**

Total Trust Fund Request for Electric School Bus Replacement Project: **\$663,000**

Triad CUSD#2 Driving a Cleaner Illinois – Volkswagen Overall Project Cost Estimate

Total Project Cost, Applicant's Cost-Share, and Total Funding Request Summary	Eligible Cost	Ineligible Costs	Project Total
Project Proposal Totals	\$762,146	\$295,444	\$1,057,590
Maximum Grant Eligible /Total Funding Request	\$650,000		\$650,000
Difference between Total Funding & Eligible Costs		\$112,146	
Total Triad CUSD#2 Costs	\$407,590		\$407,590

Itemized Project Budget for Equipment & Construction Costs by Eligibility				
Classification	Item	Eligible	Ineligible	Total
Equipment	2019 Starcraft All-Electric Type-C School Bus powered by Motiv Power Systems	253,500	84,500	338,000
Equipment	2019 Starcraft All-Electric Type-C School Bus powered by Motiv Power Systems (338000) equipped with	507,000	169,000	676,000
Equipment	Braun ADA Lift (6000)		12,000	12,000
Equipment	A/C (6000)		12,000	12,000
Construction	Installation of Electrical Service 320Amp 120/208V 30 Service at Triad Central Office parking lot.		9,480	9,480
Construction	Liberty Plug-in enabled CS Charging Station installation (per bus)		1,425	1,425
Equipment	Liberty Plug-in enabled CS Charging Station (\$2,195 per bus)	1646	4939	6,585
Equipment	Mounting post for charging station (per bus)		2,100	2,100
	Project Totals	762,146	295,444	1,057,590

Summary of the Program Request & Non-State/Local Match Funding	Totals	Program Funding Request	Non-State/Local Match Funding
Construction	10,905		10,905
Equipment	1,046,685	650,000	396,685
Project Totals	1,057,590	650,000	407,590

Creative Bus Sales 4-26-19

Prepared for Triad School group

Jim Witmer 547-303-9512

JimW@CreativeBusSales.com

sample photo, quote does not include lift





Creative Bus Sales

STARCRAFT BUS

ALL-ELECTRIC
TYPE C SCHOOL BUS



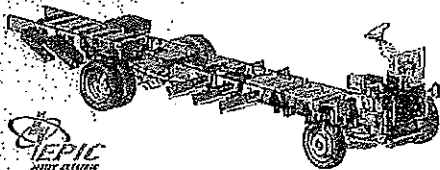
CHASSIS SPECIFICATIONS

CHASSIS	EPIC 6 Dearborn
OEM PLATFORM	Ford F-59
GVWR	22,000 lbs
RANGE	Up to 90 miles
BATTERY CAPACITY	127 kWh
PEAK MOTOR POWER	250 kW / 335 hp
PEAK MOTOR TORQUE	2,300 Nm / 1,700 ft-lbs
GRADEABILITY	20%
TOP SPEED	60 mph
REGENERATIVE BRAKING	Included
50% CHARGE TIME*	2.5 hours
75% CHARGE TIME*	4 hours
100% CHARGE TIME*	8 hours
CHARGE VOLTAGE & POWER*	208V, 25 kW

*Single phase 11772 optional

FEATURES AND BENEFITS

- 85% reduction in operating costs and 66% reduction in maintenance costs
- Utilizes industry-proven EV batteries validated through millions of real world miles to ensure long life and inexpensive replacement costs
- Independent battery control improves reliability and performance
- No range degradation -40° to 120°F
- Acceleration and hill climbing performance comparable to combustion-powered vehicles
- Over-the-air software updates for new features and functionality
- Various seating configurations with ADA options available



ALL-ELECTRIC EPIC 6 DEARBORN



MOTIV-POWERED TYPE C SCHOOL BUS

ABOUT MOTIV POWER SYSTEMS

Founded in 2009, and headquartered in the San Francisco Bay Area, Motiv Power Systems is committed to freeing fleets from their dependence on fossil fuels. EPIC (Electric Powered Intelligent Chassis) are CARB certified, GSA approved, and available for configurations including step vans, box trucks, school buses, shuttle buses, work trucks, trolleys, and specialty vehicles.

An EPIC all-electric chassis offers uncompromised performance and functionality without the pollution, noise, heat, and vibration of gasoline or diesel power.

Motiv is a Ford eQVM approved provider of all-electric chassis for commercial trucks and buses and benefits from engineering insights and support from Ford to ensure safety and reliability.

With hundreds of thousands of miles logged in Fortune 50 fleet deployments throughout North America, the EPIC family eliminates 100% of vehicle emissions, dramatically reduces operating and maintenance costs, and creates a healthier environment for riders and communities, while also reducing driver fatigue.



PROUDLY ENGINEERED AND ASSEMBLED
IN THE USA

MOTIV POWER SYSTEMS
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Creative Bus Sales

Locations In:

California • Arizona • New Mexico • Las Vegas • Texas • Oklahoma • Indiana • Florida

2019 STARCRAFT ALLSTAR XL MVP 34' SCHOOL BUS
- 47 SEATED PASSENGERS OR

FORD F59 CHASSIS WITH 22,000LB. GVWR
TILT STEERING WHEEL
GERFLOOR SIRIUS NON SLIP FLOORING THROUGHOUT
- FLOOR COLOR: ANTHRACITE GRAY
HOT WATER HEATER, 65K BTU
STARCRAFT CIRCUIT BOARD
BACK-UP ALARM SAE TYPE C 97 DBA
CEILING GRAB RAIL (2)
1 1/4" GRAB RAIL PARALLEL TO ENTRANCE STEPS (BOTH SIDES) SEAT BELT,
SEAT COVER - LEVEL 1

- OXEN GRAY VINYL #672

BUILT TO ILLINOIS SCHOOL BUS SPECIFICATIONS
6 BatteryMotivPowerSystemsElectricConversion

Tight turning radius, and high ground clearance, suited for urban and rural routes.

Price for one (as described)	\$344,000
Add ADA	\$6,000
Add Air Conditioning	\$6,000
Price for Two (Same Add on for ADA and AC)	\$338,000 each
Price for three units (one can include AC and ADA at no charge)	\$338,000 each

Passenger capacity reduced on ADA

*Prices do not include tax, license, or DMV fees. Pricing is before any rebates or subsidies

Prepared By: Jim Witmer 574.303.9512 JimW@CreativeBusSales.com

Triad CUSD#2 Driving a Cleaner Illinois – Volkswagen

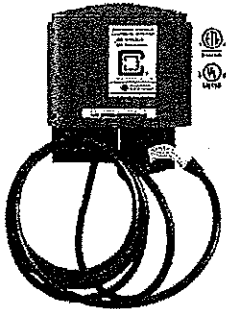
Cost Estimate for Infrastructure

Classification	Item	Eligible	Ineligible	Total
Construction	Installation of Electrical Service 320Amp 120/208V 30 Service at Triad Central Office parking lot.		9,480	9,480
Construction	Liberty Plug-in enabled CS Charging Station installation (per bus)		1,425	1,425
Equipment	Liberty Plug-in enabled CS Charging Station (2,195 per bus)	1,646	4939	6,585
Equipment	Mounting post for charging station (per bus)		2,100	2,100
Project Totals		1,646	17,945	19,590

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The CS-100 is built for order ship in a 1-2 week lead time. Please contact ClipperCreek at 530-827-1674 with any questions.



CS-100, 80 Amp EVSE, 240V, with 25 ft cable

Product Code: CS100-001
Part No: CS100-001

\$2,195.00

Qty

1

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CS EVSE Pedestal

Product Code: CS00-001
Part No: CS00-001

\$700.00

Qty

1

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Description Specifications Reviews (0) Downloads (2)

The world's first UL listed electric vehicle charging station, manufactured in America. The CS-100 is our most powerful UL Listed Level 2 EVSE offering 19.2kW for EV charging. The CS-100 works with all SAE-J1772 compliant vehicles. Great for vehicles that can accept high power charging, and future proofing installations.

For a complete list of all current electric vehicles and the approximate time to charge from empty to full with a variety of ClipperCreek charging stations, please visit <https://www.clippercreek.com/charging-times-chart/>

- 208V to 240V - 100 Amp Branch Circuit (80 Amps continuous)
- 25 foot charging cable
- Rugged, fully sealed NEMA 4 for installation indoors or outdoors
- Automatic circuit reclosure after power faults
- Cold Load Pickup. Time-delayed and randomized to allow seamless re-energizing of unit following power outages
- External Control Input. Allows external control from smart meter (AMI), billing or load management device
- UL, cUL, ETL, cETL Listed
- Safety Certified by UL and ETL

Compatible Accessories:

- The Wall Mount Retractor from ClipperCreek is the ideal solution for sites that need cable management, keeping charging cables off the ground and vehicle connectors protected.

Compatible Mounting Solutions:

- CS Pedestal (0300-00-010)

Size Comparison:

- EVSE Size Comparison Chart ([click to view larger](#))