**U. S. Environmental Protection Agency**
**Diesel Emissions Reduction Act (DERA) Grant Program**
**Supplemental Application Template**

***Burden Statement for EPA Form: 5900-681***

This collection of information is approved by OMB under the Paperwork Reduction Act, 44 U.S.C. 3501 et seq. (OMB Control No. 2060-NEW). Responses to this collection of information are voluntary (2 CFR 200 at 2 CFR 1500). An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number. The public reporting and recordkeeping burden for this collection of information is estimated to be 8.6 hours per response. Send comments on the Agency's need for this information, the accuracy of the provided burden estimates and any suggested methods for minimizing respondent burden to the Regulatory Support Division Director, U.S. Environmental Protection Agency (2821T), 1200 Pennsylvania Ave., NW,Washington, D.C. 20460. Include the OMB control number in any correspondence. Do not send the completed form to this address.

***Instructions***

This supplemental application template should be submitted at the time of award application to summarize the overview of the proposed proved. Please work with relevant parties (i.e., transportation contractor, port authority, etc.) to ensure information submitted is accurate. Applicants only need to fill out shaded cells highlighted blue with a diagonal pattern (///). Cells highlighted yellow are simply for informative purposes and/or automated from other tabs in this spreadsheet. Fields that are optional at the time of application are shaded white and each field is labeled as such; applicants are encouraged to supply this information if it readily available, but it is not required. Additional fields may autopopulate with bold diagonal patterns (///), indicating that a response to those fields is not necessary, based on prior responses entered. Please complete tabs in this workbook according to the instructions below.

| Excel Workbook Tab | Definition |
|---|---|
| ***1. Instructions*** | Basic instructions for all worksheets in this reporting workbook. |
| ***2. Fleet Description*** | The tab should be completed based upon the proposed workplan fleet sheet submitted as part of the DERA application. Please refer to additional information on field definitions in tab 4 (Data Dictionary). |
| ***3. Infrastructure*** | The tab should be completed based upon the proposed workplan submitted as part of the DERA application. Please refer to additional information on field definitions in tab 4 (Data Dictionary). |
| ***4. Data Dictionary*** | Please refer to the dictionary on this tab for support in completing the Fleet Description (tab 2) and Infrastructure Description (tab 3). |

OMB Control Number: 2060-New
Expiration Date: MM/DD/YYYY

**U. S. Environmental Protection Agency**
**Diesel Emissions Reduction Act (DERA) Grant Program**
***Fleet Description***

INSTRUCTIONS: This Fleet Description should detail all vehicles and engines impacted under the project. The fields below align with EPA's Diesel I
vehicle and engine upgrades completed. This Fleet Description is broken into two sections: 1) Current Vehicle and Engine Information and 2) Nev
parentheses in the table below. Please refer to the Fleet Description data definitions on tab 4 (Data Dictionary) for additional guidance on each fi
Each vehicle/engine group column below can represent one or more similar pieces of equipment operating in the same fleet. You can copy and p
Note: Individual marine vessels must be listed in separate vehicle/engine group columns. If both auxiliary and propulsion engines on an individua

**Table 1. CURRENT VEHICLE AND ENGINE INFORMATION**

**1a. Basic Fleet Information** | **1b. Current Vehicle Information**

| Vehicle | Group Name | Fleet Owner | Publicly or Privately Owned *(select from dropdown)* | Equipment Type *(select from dropdown)* | Target Fleet *(select from dropdown)* | Vehicle Class *(onroad vehicles, as defined in data dictionary)* | Vehicle or Engine Group Sector |
|---|---|---|---|---|---|---|---|
| Example Vehicle | Sample | Company A | Publicly Owned | Onroad | Transit Bus | Class 6 | Municipal |
| Vehicle 1 | | | | | | | |
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| Vehicle 100 | | | | | | | |

Emission Quantifier (DEQ), a requirement for the application, workplan, and final reports as part of program grant requirements. The Fleet Descript
v Vehicle and Engine Upgrade Information. All rows of data are required, unless specified as not being applicable to the Equipment Type or Target F
ield.
)aste additional columns as needed to capture all vehicle/engine groups. Please indicate in the Financial Information row the fiscal year of funds us
ıl vessel are part of a project, these different engine types must be listed in separate vehicle/engine group columns.

| | | | | | 1c. Current Engine Information | | |
|---|---|---|---|---|---|---|---|
| Vocation | Vehicle Identification Number (VIN) | Vehicle Make | Vehicle Model | Baseline Vehicle Model Year | Engine Serial Number(s) | Engine Make | Engine Model |
| Other | 1234567891011 | Ford | Taurus | 1995 | 4548154 | ABC | ABC |

ɪion should be updated quarterly with all
Fleet. These exceptions are highlighted in

ed for the activity described within the table.

| **Engine Model Year** | **Engine Tier** *(nonroad, locomotive, and marine only)* | **Tier 4 Standards** *(Tier 4 only)* | **Engine After-Treatment Technology** *(Tier 4 nonroad only)* | **Engine Horsepower** | **Engine Cylinder Displacement** *(liters/cylinder; marine only)* | **Engine Number of Cylinders** *(# of cylinders per engine; marine only)* |
|---|---|---|---|---|---|---|
| 1995 | Tier 2 | N/A | No DPF, Yes SCR | 660 | 5.0 <= size <15.0 | N/A |

**Table 1d. Current Annual Vehicle Activity Dat**

| **Engine Total Displacement** *(liters per engine; marine only)* | **Engine Family Name** *(if unregulated, then NA)* | **Baseline Engine Fuel Type** | **Total # of Propulsion Engines** *(per vessel; marine only)* | **Total # of Auxiliary Engines** *(per vessel; marine only)* | **Annual Amount of Fuel Used** *(gallons/year per engine for nonroad and marine; gallons/year per vehicle for onroad and locomotives)* | **Annual Usage Hours** *(hours per year per engine; includes idling hours; nonroad, locomotive, and marine only)* |
|---|---|---|---|---|---|---|
| N/A | N/A | ULSD (diesel) | N/A | N/A | 6000 | 3000 |

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**Table 1e. Place of Performance**

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| **Current Odometer** (in miles) | **Annual Miles Traveled** *(miles per vehicle; on-highway only)* | **Annual Idling Hours** *(hours per engine; on-highway only)* | **Annual Hoteling Hours** *(hours per year per engine; class 8 long-haul combination only)* | **Remaining Life of Baseline Engine/Vehicle** *(years per engine; total # of years of engine life remaining at time of upgrade action)* | **State** *(select from dropdown)* | **County** *(select from dropdown)* |
|---|---|---|---|---|---|---|
| 150000 | 12000 | 1500 | N/A | 3 | AZ | Maricopa County |

| ary Place of Performance | | | Secondary Place of Performance *(if applicable)* | | | |
|---|---|---|---|---|---|---|
| **City(s)** | **Percent of Time Operated in County** *(enter value 0-1)* | **Zip Code(s)** | **State** *(select from dropdown)* | **County** *(select from dropdown)* | **City(s)** | **Percent of Time Operated in County** *(enter value 0-1)* |
| Phoenix | 85% | 85364;85365 | AZ | Yuma County | Yuma | 15% |

| Additional Location Details *(if applicable)* | | | Table 2. NEW VEHICLE AND ENGINE UPGRADE INFORMATION<br>2a. Upgrade Information | | |
|---|---|---|---|---|---|
| **Zip Code(s)** | **Additional Counties where Vehicle Operates** | **% of time operated in each Additional County** | **Year of Upgrade Action** | **Upgrade Type** *(select from dropdown)* | **Upgrade Specific** *(select from dropdown after selecting Upgrade Type)* |
| 85364;85365 | Pima County, AZ; La Paz County, AZ | 5% in Pima; 5% in La Paz | 2018 | Emission_Control_Devices | Diesel Oxidation Catalyst + Diesel Particulate Filter |

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**2b. Vehicle Replacement and/or Upgrade Information**

| **Class** *(onroad vehicles, as defined in data dictionary; select from dropdown)* | **Vehicle Identification Number (VIN) for New Vehicle** *(if original vehicle replaced)* | **New Vehicle Fuel Type** *(if original vehicle replaced; select from dropdown)* | **New Vehicle Manufacturer** *(if original vehicle replaced)* | **New Vehicle Model** *(if original vehicle replaced)* | **New Vehicle Model Year** *(if original vehicle replaced)* |
|---|---|---|---|---|---|
| Class 6 | 1234567890ABCDE | Hybrid | New Vehicle Manufacturer Co. | Model Name or # | 2023 |

**2c. New Engine**

| **New Vehicle GVWR** *(if original vehicle replaced)* | **Upgrade or Replacement Vehicle/Equipment Cost only Per Unit** | **Upgrade Labor Cost only Per Unit** | **Total Cost Per Unit** *(equipment plus labor)* | **Total Federal Funds Expended Per Unit** *($ of Total Cost per Unit)* | **Federal Cost Share Expended Per Unit** *(% of Total Cost per Unit)* | **New Engine Model Year** |
|---|---|---|---|---|---|---|
| 12000 | $ 150,000.00 | $ 25,000.00 | $ 175,000.00 | $ 50,000.00 | 28.57% | 2018 |

**Information (if replaced)**

| New Engine Serial Number | New Engine Tier *(nonroad, locomotive, and marine only)* | Tier 4 Standards *(Tier 4 only)* | New Engine After-Treatment Technology *(Tier 4 nonroad only)* | New Engine Horsepower | New Engine Duty Cycle *(line-haul locomotive only)* |
|---|---|---|---|---|---|
| 4548155 | Tier 2 | N/A | No DPF, Yes SCR | 750 | N/A |

| **New Engine Cylinder Displacement** *(liters per cylinder per engine; marine only)* | **New Engine Total Displacement** *(liters per engine; marine only)* | **New Engine Number of Cylinders** *(per engine; marine only)* | **New Engine Family Name** | **New Engine Fuel Type** *(select from dropdown)* |
|---|---|---|---|---|
| 5.0 <= size <15.0 | N/A | N/A | ABC | ULSD (diesel) |

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**2d. New Annual Vehicle Activity Data**

| **New Annual Idling Hours** *(hours per vehicle; on-highway only)* | **New Annual Hoteling Hours** *(hours per vehicle; class 8 long-haul combination only)* | **New Annual Fuel Volume** *(estimated gallons of fuel/year per engine for new gas, diesel, hybrid, LPG or CNG)* | **New Vehicle Equipped with Auxiliary Heater?** *(Yes/No)* | **Auxiliary Heater Type** *(if applicable)* |
|---|---|---|---|---|
| N/A | N/A | 6000 | Yes | Spheros Thermo 300 |

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**2e. New Vehicle Battery Information (Hybrid & Battery Electric Only)**

| **Capable of Bidirectional Charging?** *(if Battery Electric or Hybrid)* | **Manufacturer of Battery Pack** | **Number of Battery Packs** | **Battery Capacity per Battery Pack (kWh)** | **Vehicle or Equipment Total Battery Capacity, (kWh)** | **Rated Charging Power (kW)** |
|---|---|---|---|---|---|
| Yes | *Battery & Co.* | *6* | *90* | *540* | *360* |

## 2f. Warranty Information

| **Estimated Range in Miles** *(for Onroad Battery Electric only)* | **Estimated Range in Hours** *(for Nonroad Battery Electric only)* | **Is the Battery Warranty Included?** *(for Battery Electric only)* | **Battery: indicate Number of Years Covered** *(for Battery Electric only)* | **Battery: Number of Miles Covered by Warranty** *(for Battery Electric only)* | **Battery: Total kWh of battery discharge Covered by Warranty** *(for Battery Electric only)* |
|---|---|---|---|---|---|
| *200* | *16* | Yes | 8 | 150000 | 200000 |

| | | | 2g. Optional Participation in Future of Transportation Research | |
|---|---|---|---|---|
| **Powertrain Warranty Included?** *(Yes/No)* | **Powertrain: Number of Years** *(if included)* | **Powertrain: Number of Miles** *(if included)* | **Is the vehicle/equipment equipped with Telematics?** *(Yes/No/Not Sure)* | **EPA or its partners may contact me about participating in research opportunities to provide vehicle/equipment data that could inform future transportation work.** *(Yes/No)* |
| Yes | 5 | 100000 | Yes | Yes |

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| **If Yes, Telematics Primary Point of contact** *(Name and email)* |
| Sarah Smith; Smith.Sarah@HSD.edu |

**U. S. Environmental Protection Agenc**
**Diesel Emissions Reduction Act (DERA) Grant**
*Infrastructure Description*

The EVSE Equipment Information (Table 16) should detail all electric vehicle supply equipment (EVSE) and supporting infrastructure purchased
however, additional rows may be add as needed to capture all equipment. Please refer to the Infrastructure data definitions on Tab 4 (Data Dic
and other infrastructure projects must comply with Build America, Buy America (BABA) requirements. See below for more information on BAB

**Build America, Buy America (BABA) require**

On November 16, 2021, the Infrastructure Investment and Jobs Act ("IIJA"), Pub. L. No. 116-58, which includes the Build America, Buy America
2022, all of the iron, steel, manufactured products, and construction materials used in infrastructure project are produced in the United States
apply to the infrastructure project, regardless of whether or not the infrastructure project was the primary basis for the award. Additionally, BA
part or wholly, for the infrastructure project. For more information, please visit https://www.epa.gov/cwsrf/build-america-buy-america-baba.

**Table 3: Electric Vehicle Supply Equipment Information**

**Table 3a. EVSE Equipment Information Overview**

| | Type of Charger | If Level 2, is it ENERGY STAR certified | EVSE Manufacturer | EVSE Model | EVSE Manufacture Year |
|---|---|---|---|---|---|
| Example EV Infrastructure | Level 2 | Yes | *Manufacturer Name* | *Model Name* | 2023 |
| **EVSE Group 1** | | | | | |
| **EVSE Group 2** | | | | | |
| **EVSE Group 3** | | | | | |
| **EVSE Group 4** | | | | | |
| **EVSE Group 5** | | | | | |
| **EVSE Group 6** | | | | | |
| **EVSE Group 7** | | | | | |
| **EVSE Group 8** | | | | | |
| **EVSE Group 9** | | | | | |
| **EVSE Group 10** | | | | | |

**Table 4: Shore Power Information**

**Table 4a. Shore Power Equipment Information & Demand Overview**

| | Type of Shore Power Connection | Total Voltage Service Provided *(select from dropdown)* | Total Voltage Service Provided, if not listed | Manufacturer | Model |
|---|---|---|---|---|---|
| Example Shore Power Infrastructure | High voltage shore power connection (HVSC) | 6.6 kV | 10 kV | *Manufacturer Name* | *Model Name* |

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|---|---|---|---|---|---|
| **Shore Power Group 1** | | | | | |
| **Shore Power Group 2** | | | | | |
| **Shore Power Group 3** | | | | | |
| **Shore Power Group 4** | | | | | |
| **Shore Power Group 5** | | | | | |
| **Shore Power Group 6** | | | | | |
| **Shore Power Group 7** | | | | | |
| **Shore Power Group 8** | | | | | |
| **Shore Power Group 9** | | | | | |
| **Shore Power Group 10** | | | | | |

| **Are there any other infrastructure projects associated with this grant that are not listed above (e.g. electrified parking space, stationary ger** |
|---|
| If no, *please leave this section blank.* If yes, please provide details in the box below on the infrastructure project and describe how BABA compl |
| |

**y**
**Program**

under the project. Please only fill out shaded cells highlighted blue with a diagonal pattern (///);
:tionary) for data field definitions. Reminder: All Level 2 EVSEs must be ENERGY STAR certified. All EVSE
A.

**:ments**

Act (BABA), Public Law 116-58, §§ 70901-52, was signed into law. BABA requires that on or after May 14,
. If award recipient will be installing, upgrading, or replacing "infrastructure," then BABA requirements
ABA requirements apply even if the award recipient will be using another source of funding, whether in

| Is the EVSE BABA Compliant? | EVSE Maximum Output Power *(kW)* | Number of Plugs on EVSE | Is the EVSE Capable of Bidirectional Charging? | Will the Vehicle/Equipment and EVSE be Used for Vehicle to Grid (V2G)? | Number of EVSE Units | EVSE Equipment Cost *only* Per Unit: |
|---|---|---|---|---|---|---|
| Yes | 24 | 2 | No | No | 2 | $ 18,000.00 |
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| Manufacture Year | Typical Engine Tier of Vessels Using Shore Power | Fuel Type of Vessels Using Shore Power | Number of Annual Vessel Calls to Berth where Shore Power Installed | Average Hotel Hours per Vessel Call per Berth where Shore Power Installed | Number of Vessel Berths that can be served by Shore Power Pedestal | Maximum Output Power *(kW)* |
|---|---|---|---|---|---|---|
| 2023 | Tier 1 | Marine Gas Oil (MGO, 0.10% S) | 500 | 72 | 1 | 24 |

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| **nerator or other stationary equipment)?** | |
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| iance was determined. | |
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**Table 3b. Location of EV Infrastruct**

| Total Federal Funds Expended Per EVSE Unit | Total Federal Funds Expended for EVSE | Date of EVSE was Manufactured (mm/dd/yyyy) | Date of EVSE Installation (mm/dd/yyyy) | Date EVSE Operational *(mm/dd/yyyy)* | State *(select from dropdown)* |
|---|---|---|---|---|---|
| $ 12,000.00 | $ 24,000.00 | *3/28/2024* | 6/28/2024 | 8/28/2024 | VA |
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**Table 4b. Location of Shore Power Infrastructure**

| Estimated Annual Total Energy Provided in MW-h | Number of Plugs per Shore Power Pedestal | Number of Shore Power Pedestals | State *(select from dropdown)* | County *(select from dropdown)* | City |
|---|---|---|---|---|---|
| 1 MW-h | 2 | 2 | VA | Arlington County | Alexandria |

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| County *(select from dropdown)* | City | Zip Code | Street Address of Charger(s) | Who owns the charger? |
|---|---|---|---|---|
| Arlington County | Alexandria | 22305 | 400 1st Street | Walton School District |
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**Table 4c. Installation Details**

| Zip Code | Port Facility where Shore Power Installed | Who owns the Shore Power Infrastructure? | Total Funds Expended Installation Cost for Shore Power Group | Total Federal Funds Expended Installation Cost for Shore Power Group |
|---|---|---|---|---|
| 22305 | Port of Guam | Port of Guam | $ 120,000.00 | $ 70,000.00 |

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**Table 3c. Charging Management Service Providers**

| Anticipated User(s) of the charger | Name of Charging Management Service Provider (NA if not applicable) | Does the Infrastructure Equipment Cost Include Charging Management Service? *(Yes/No)* | If Charging Management Service not included in cost, but is acquired, what is the cost and frequency of charges? |
|---|---|---|---|
| Electric school buses serving Walton School District | *Charge Manage & Co.* | *Yes* | *$250 per charger per month* |
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| Does the Infrastructure Equipment Cost Include Installation? | Description of Installation Work, including all equipment installed | Installation Work Performed By | Date(s) Shore Power Equipment was Manufactured (mm/dd/yyyy) |
|---|---|---|---|
| No | Upgrades to the electrical panel, wiring, and installation for two DCFC | XYZ Electric Co. | 5/25/2023 |

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**Table 3d. Infrastructure Installation Information**

| Total Funds Expended on Installation Cost | Total EPA Funds Expended on Installation Cost | Does the Infrastructure Equipment Cost Include Installation? | Description of Installation Work |
|---|---|---|---|
| $ 12,000.00 | $ 7,000.00 | No | Upgrades to the electrical panel, wiring, and installation for two DCFC |
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**Table 4d. Shore Power BABA Details**

| Date Equipment Installed | Date Equipment Fully Operational | Is waiver being used to fulfill BABA compliance for this infrastructure? | Are the Shore Power Equipment, Housing, and all Accessories BABA Compliant? |
|---|---|---|---|
| 6/24/2024 | 8/24/2024 | No - Infrastructure meets all BABA requirements | Yes - Housing, Wiring, Cables, and All Accessories are BABA Compliant |

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| Installation Work Performed By | Installation was conducted by an individual who meets the infrastructure electrician requirements as outlined in the program guidance? | Is waiver being used to fulfill BABA compliance for this infrastructure? |
|---|---|---|
| XYZ Electric Co. | Yes - Certification from EVITP | No - Infrastructure meets all BABA requirements |
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**Table 4e. Shore Power Cost Summary**

| If No, Partly Compliant, or Unsure, explain | Equipment Cost *only* Per Shore Power Pedestal: | Total Federal Funds Expended Per Shore Power Pedestal |
|---|---|---|
| | $ 18,000.00 | $ 12,000.00 |

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**Table 3e. EVSE Cost Summary**

**Table 3f. Optional Participation in Future**

| **Total EPA Funds Expended on EVSE Equipment and Installation** | **Total Funds Expended on EVSE Equipment and Installation** | **Federal Cost Share Expended Per Unit** *(% of Total Cost per EVSE)* | **EPA or its partners may contact me about participating in research opportunities to provide EVSE data that could inform future transportation work.** *(Yes/No)* |
|---|---|---|---|
| $31,000.00 | $48,000.00 | 65% | Yes |
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**Table 4f. Optional Participation in Future**

| **Total Federal Funds Expended for All Shore Power Equipment** *(total # of pedestals x Federal Funds Expended/pedestal)* | **Federal Cost Share Expended For Shore Power Equipment** | **Federal Cost Share for Shore Power Installation** | **EPA or its partners may contact me about participating in research opportunities to provide EVSE data that could inform future transportation work.** *(Yes/No)* |
|---|---|---|---|
| $ 24,000.00 | 67% | 58% | Yes |

| | | | |
|---|---|---|---|
| $ - | | | |
| $ - | | | |
| $ - | | | |
| $ - | | | |
| $ - | | | |
| $ - | | | |
| $ - | | | |
| $ - | | | |
| $ - | | | |
| $ - | | | |

| of Transportation Research |
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| If Yes, Telematics Primary Point of contact (Name and email) |
|---|
| Sarah Smith, Smith.Sarah@hsd.edu |
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| of Transportation Research |
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| If Yes, Telematics Primary Point of contact (Name and email) |
|---|
| Sarah Smith, Smith.Sarah@hsd.edu |

**Fleet Description Data Fields:** Please refer to the following data field dic

| | CU |
|---|---|
| | |
| Fleet Owner | |
| Publicly or Privately Owned? | |
| Place of Performance | |
| - State(s): | |
| - County(s): | |
| - City(s): | |
| - Zip Code(s): | |
| - % of Time operated in each Zip Code (Total to Equal 100%) | |
| Equipment Type | |
| Target Fleet | |
| Class | |
| Vehicle or Engine Group Sector: | |
| Vocation | |
| | |
| Vehicle Identification Number(s): | |
| Vehicle Make | |
| Vehicle Model | |
| Baseline Vehicle Model Year: | |
| | |
| Engine Serial Number(s) : | |
| Engine Make: | |
| Engine Model: | |
| Engine Model Year: | |
| Engine Tier (nonroad, locomotive, and marine only): | |
| Tier 4 Standards (Tier 4 only): | |
| Engine After-Treatment Technology | |
| Engine Horsepower: | |
| Engine Cylinder Displacement (liters/cylinder; marine only): | |
| Engine Number of Cylinders (# of cylinders per engine): | |
| Engine Total Displacement (liters per engine; marine only) | |
| Engine Family Name (if unregulated, then NA): | |
| Baseline Engine Fuel Type: | |
| Total # of Propulsion Engines (per vessel; marine only): | |
| Total # of Auxiliary Engines (per vessel; marine only): | |
| | |
| Annual Amount of Fuel Used (gallons/year per engine): | |
| Annual Usage Hours (hours per year per engine; includes idling hours; nonroad, locomotive, and marine only) | |
| Annual Miles Traveled (miles per vehicle; on-highway only): | |
| Annual Idling Hours (hours per engine; on-highway only): | |
| Annual Hoteling Hours (hours per year per engine; class 8 long-haul combination only): | |
| Remaining Life of Baseline Engine/Vehicle (years per engine; total # of years of engine life remaining at time of upgrade action): | |
| | |
| | |
| Year of Upgrade Action: | |
| Upgrade Type: | |
| Upgrade Specific: | |
| Class (onroad vehicles): | |
| VIN for New Vehicle(s): | |
| Total Cost per Unit (equipment cost plus labor): | |
| Upgrade Equipment Cost only per unit: | |
| Upgrade Labor Cost only per unit: | |

| |
|---|
| Total Federal Funds Expended per Unit ($ Total Cost per Unit): |
| Federal Cost Share Expended per Unit (% Total Cost per Unit): |

| |
|---|
| New Engine Model Year: |
| New Engine Tier (nonroad, locomotive, and marine only): |
| Tier 4 Standards (Tier 4 only): |
| New Engine After-Treatment Technology (Tier 4 nonroad only): |
| New Engine Horsepower: |
| New Engine Duty Cycle (line-haul locomotive only): |
| New Engine Cylinder Displacement (liters per cylinder per engine; marine only): |
| New Engine Total Displacement (liters per engine; marine only) |
| New Engine Number of Cylinders (per engine; marine only): |
| New Engine Family Name: |
| New Engine Fuel Type: |

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| Annual Idling Hours Reduced (hours per vehicle; on-highway only): |
| Annual Hoteling Hours Reduced (hours per vehicle; class 8 long-haul combination only): |
| New Annual Fuel Volume (estimated gallons/year per engine): |

| |
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| Type of Charger |
| If Level 2, is it ENERGY STAR certified |
| EVSE Manufacturer |
| EVSE Model |
| EVSE Manufacture Year |
| Is the EVSE BABA Compliant? |
| EVSE Maximum Output Power (kW) |
| Number of Plugs on EVSE |
| Is the EVSE Capable of Bidirectional Charging? |
| Will the Bus and EVSE be Used for V2G? |
| EVSE Number of Units |
| EVSE Equipment Cost only Per Unit: |
| Total Federal Funds Expended Per EVSE Unit |
| Total Federal Funds Expended for EVSE |
| Date of EVSE Installation (mm/dd/yyyy) |

| |
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| State |
| County |
| City |
| Zip Code |
| Street Address |
| Who owns the charger? |
| Does the EVSE serve multiple school districts within this application? |
| Name of the School District(s) the EVSE will serve (use a colon between school districts) |
| NCES ID of School District that the EVSE will serve (use a colon between school districts) |

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| Total Funds Expended Installation Cost |
| Total Federal Funds Expended Installation Cost |
| Does the Infrastructure Equipment Cost Include Installation? |
| Description of Installation Work |
| Installation Work Performed By |
| Is waiver being used to fulfill BABA compliance for the infrastructure Project? |
| Total Federal Funds Expended Equipment and Installation |

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| **Sho** |
| Type of Shore Power Connection |

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| Total Voltage Service Provided |
| Total Voltage Service Provided, if Not Listed |
| Manufacturer |
| Model |
| Manufacture Year |
| Typical Engine Tier of Vessels Using Shore Power |
| Fuel Type of Vessels Using Shore Power |
| Number of Annual Vessel Calls to Berth where Shore Power Installed |
| Number of Vessel Berths that can be served by Shore Power Pedestal |
| Maximum Output Power *(kW)* |
| Estimated Annual Total Energy Provided in MW-h |
| Number of Plugs per Shore Power Pedestal |
| Number of Shore Power Pedestals |

| |
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| State *(select from dropdown)* |
| County *(select from dropdown)* |
| City |
| Zip Code |
| Port Facility where Shore Power Installed |
| Who owns the Shore Power Infrastructure? |

| |
|---|
| Total Funds Expended Installation Cost for Shore Power Group |
| Total Federal Funds Expended Installation Cost for Shore Power Group |
| Does the Infrastructure Equipment Cost Include Installation? |
| Description of Installation Work, including all equipment installed |
| Installation Work Performed By |
| Date Equipment Installed |
| Date Equipment Fully Operational |
| Is waiver being used to fulfill BABA compliance for this infrastructure? |
| Are the Shore Power Equipment, Housing, and all Accessories BABA Compliant? |
| If No, Partly Compliant, or Unsure, explain |

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| Equipment Cost only Per Shore Power Pedestal: |
| Total Federal Funds Expended Per Shore Power Pedestal |
| Total Federal Funds Expended for All Shore Power Equipment (total # of pedestals x Federal Funds Expended/pedestal) |
| Federal Cost Share Expended For Shore Power Equipment |
| Federal Cost Share for Shore Power Installation |

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| EPA or its partners may contact me about participating in research opportunities to provide shore power data that could inform future transportation work. (Yes/No) |
| If Yes, Primary Point of contact (Name and email) |

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| tionary for support in completing tab 2 (Fleet Description) and tab 3 (Infrastructure). |
| **2. FLEET DESCRIPTION** |
| **URRENT VEHICLE AND ENGINE UPGRADE INFORMATION** |
| **Basic Fleet Information** |
| Enter the group name of the fleet. |
| Enter the first and last name of the individual or organization that owns the fleet. |
| If the vehicles are part of a public fleet or benefit the public (i.e. a private school bus company contracted by a public school; drayage vehicles that serve a port; private construction equipment contracted to a public works project, etc) enter "Publicly", otherwise enter "Privately". |
| Enter the next four fields for each vehicle's place(s) of performance. |
| Enter the two letter postal code for the state in which the vehicle(s) will operate. |
| Enter the county in which the vehicle(s) will operate. |
| Enter the city in which the vehicle(s) will operate. |
| Enter the zip code which the vehicle(s) will operate. |
| Enter the percent of time the vehicle group operates in each zip code, if there is more than one. For example, 80% of time in 85310 and 20% of time in 85308. |
| Enter the vehicle type from the dropdown, OnRoad Vehicle, NonRoad Equipment, Locomotive, or Marine. |
| Select the target fleet from the dropdown menu. |
| Select from the dropdown menu the Vehicle/Equipment Class for onroad vehicles, as appropriate. |
| Using the drop down, enter the sector associated with the vehicle or engine group. |
| Select the vocation type from the dropdown menu. |
| **Current Vehicle Information** |
| Enter the Serial number or VIN number for each engine or vehicle |
| Enter the manufacturer of the existing vehicle |
| Enter the model of the existing vehicle |
| Enter the model year of the existing vehicle. |
| **Current Engine Information** |
| Enter the engine Serial # for each vehicle or engine to be scrapped/replaced. |
| Enter the manufacturer of the existing Engine. |
| Enter the model of the existing Engine. |
| Enter the model year of this engine set. |
| For REPOWERS AND UPGRADES ONLY, Select from the dropdown menu the Current Tier Level. |
| For tier 4 only engines, please use the drop down to indicate interim for final. |
| Enter the appropriate drop down for collection on emission control technologies for the current engine. |
| Enter the average horsepower of the engine/equipment. |
| Enter the engine displacement per cylinder in liters. |
| Enter the number of cylinders per engine. |
| Enter the engine displacement per cylinder in liters. |
| Enter the Engine Family name of the existing Engine. NOTE: unregulated engines will not have an Engine Family Name. Engine Optional for Idle Reduction, Aerodynamic Technology, Low Rolling Resistance Tires, and Fuels projects. |
| Select the type of fuel that is currently being used (prior to any clean diesel activity change). |
| Enter the total number of propulsion engines on the vessel. |
| Enter the total number of auxiliary engines on the vessel. |
| **Current Annual Vehicle Data** |
| Enter the amount of fuel used in gallons/year. |
| Enter the average number of hours the equipment is used per year. |
| Enter the average number of vehicle miles traveled per year per vehicle. |
| Enter the average number of hours the vehicle idles per year. |
| Enter the average number of hoteling hours per year, per engine. |
| Enter the remaining life of baseline engine/vehicle in years at the time of the upgrade action |
| **NEW VEHICLE AND ENGINE UPGRADE INFORMATION** |
| **Upgrade Information** |
| Enter the year in which the upgrade will take place (i.e., if in 2010, you're replacing a 1995 bus with a 2007 bus, the upgrade year is 2010.) |
| Enter the type of upgrade that will take place from the dropdown menu. |
| Using the drop down, enter the specific type of upgrade that will take place during the project. |
| Using the drop down list provided, select the appropriate vehicle class (for onroad vehicles only). |
| Please enter the vehicle identification numbers for the new vehicle(s) being replaced. |
| Automated cell that will sum the upgrade equipment cost (row 55) and labor cost (row 56). |
| Enter the cost of the technology or equipment cost per unit. |
| Enter the cost of installing or labor cost of the technology per unit. |

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|---|
| Enter the federal funds expended in dollars per unit. |
| Automated cell that will calculate the federal cost share based upon the federal funds expended entered in row 57. |
| **New Engine Information** |
| For REPLACEMENTS AND REPOWERS ONLY, Enter the model year of the new vehicle/engine. |
| For REPLACEMENTS, REPOWERS AND UPGRADES ONLY, Select from the dropdown menu the new Tier Level. |
| For tier 4 only engines, please use the drop down to indicate interim for final. |
| Enter the appropriate drop down for collection on emission control technologies for the new engine. |
| Enter the new horsepower of the engine or equipment. |
| Please enter the new engine duty cycle - for line-haul locomotive ONLY. |
| Enter the new engine displacement per cylinder in liters. |
| Select from the dropdown menu the displacement per cylinder in liters. |
| Enter the number of cylinders in the new engine. |
| For REPLACEMENTS AND REPOWERS ONLY, Enter the Engine Family Name of the new engine. |
| Select the type of fuel that is for the new engine or vehicle. |
| **New Annual Vehicle Data** |
| For IDLE REDUCTION STRATEGIES ONLY, Enter the average number of idling hours reduced for the engine. |
| Enter the average number of hoteling hours per year, per engine. |
| Please enter the new annual fuel volume, in gallons. New Annual Fuel Volume should be from new engine efficiency, not changes in use. |
| **3. INFRASTRUCTURE** |
| **EVSE Equipment Information** |
| Enter the type of charger, either Level 2 (AC charging up to 19.2 kW) or DC Fast Charging. |
| Confirm and select yes if applicable. Please see https://www.energystar.gov/ |
| Enter the manufacturer of the charging equipment |
| Enter the model name of the charging equipment. |
| Enter the year the charging equipment was manufactured. |
| Select an option. EVSE manufactured on or after July 1, 2024 must be meet BABA requirements. |
| Enter the maximum power output of the charging equipment, measured in kilowatts. |
| Enter the number of plugs installed on each unit of the charging equipment. |
| Select yes or no into the cell to specify whether the charging equipment is capable of bidirectional charging. |
| Select yes or no into the cell to specify whether the buses and charging equipment will be used for vehicle-to-grid (V2G) services. |
| Enter the quantity of charging equipment unit |
| Enter the cost of the charging equipment per unit. |
| Enter the total Federal funds expend for charging equipment per unit. |
| No action - autopopulated |
| Enter the date on which the EVSE is permanently affixed. |
| **Location of EV Infrastructure** |
| Select the two letter postal code for the state in which the charging equipment will be located. |
| Enter the county in which the charging equipment will be located. |
| Enter the city in which the charging equipment will be located. |
| Enter the zip code in which the charging equipment will be located. |
| Enter the street address in which the charging equipment will be located. |
| Enter the name of the school district or organization that owns the charging equipment. |
| Select yes or no |
| Enter the name of the school district in which the EVSE will serve. If it will serve multiple school districts, list all and separate with a colon (e.g., Hampton School District: Edgewood School District). |
| Enter the name of the National Center for Education Statistics (NCES) ID associated with the school district in which the EVSE will serve. If it will serve multiple school districts, list all NCES IDs and separate with a colon (e.g., 1234567: 7654321). |
| **Infrastructure Installation Information** |
| Enter the total installation costs for the charging equipment for the EV infrastructure group column. |
| Enter the total Federal funds expended for installation costs for the charging equipment for the EV infrastructure group column. |
| Please enter yes or no into the cell to specify whether the indicated cost of the charging equipment above includes any installation expenses. |
| Enter a description of the work performed to install the charging equipment, such as design and engineering, trenching, wiring and electrical upgrades, labor, and permitting. |
| Enter the name(s) of the organization(s) that performed the installation work described above. |
| Select electrician category |
| If a waiver is being used to meet BABA compliance requirements, select the waiver type |
| Automated cell that will calculate the total Federal Funds expended for the charging equipment and installation for an EV Infrastructure Group. |
| **re Power Equipment Information and Demand Overview** |
| Select the type of shore power connection, either high-voltage (HVSC) or low-voltage (LVSC). |

| |
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| Select the total voltage provided from the dropdown menu, if listed. |
| Enter the total voltage service provided if the amount is not listed in the dropdown menu. |
| Enter the manufacturer of the shore power system. |
| Enter the model name of the shore power system. |
| Enter the year the shore power system was manufactured. |
| Select the typical engine tier of vessels using the shore power system. |
| Select the fuel type of vessels using the shore power system. |
| Enter the number of annual vessel calls per berth where the shore power system is installed. |
| Enter the number of vessel berths that can be served by the shore power system. |
| Enter the maximum power output of the shore power system, measured in kilowatts. |
| Enter the estimated total annual energy output of the shore power system in megawatt-hours. |
| Enter the number of available plugs per shore power pedestal installed. |
| Enter the total number of shore power pedestals installed. |
| **Location of Shore Power Infrastructure** |
| Select the state where the shore power system is installed. |
| Select the county where the shore power system is installed. |
| Enter the name of the city where the shore power system is installed. |
| Enter the zip code of the location where the shore power system is installed. |
| Enter the name of the port facility where the shore power system is installed. |
| Enter the name of the organization that owns the shore power system. |
| **Installation Details** |
| Enter the total cost for installation of the shore power system. |
| Enter the total amount of federal funds expended for installation of the shore power system. |
| Select whether or not the equipment cost includes installation of the shore power system. |
| Describe the work done during installation, including all equipment that became part of the installed shore power system. |
| List the name of the company (or companies) performing the installation of the shore power system. |
| Enter the date (or date range) the shore power system was installed. |
| Enter the date by which the shore power system became fully operational. |
| Select from the dropdown menu how BABA requirements are being met for the shore power project. |
| Select from the dropdown menu which parts of the shore power project are BABA compliant. |
| For the previous column, explain which parts are not compliant or enter N/A. |
| **Shore Power Cost Summary** |
| Enter the equipment cost for each shore power pedestal. |
| Enter the federal funds expended for the equipment in each shore power pedestal. |
| No action - autopopulated |
| No action - autopopulated |
| No action - autopopulated |
| **ptional Participation in Future Transportation Research** |
| Select from the dropdown menu if EPA or its partners may contact you regarding shore power research. |
| If you selected "Yes" for the previous column, please enter your name and e-mail. |