Clean Transit Bus Request for Applications

Prepared by the Montana Energy Office at the Department of Environmental Quality

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Montana Clean Transit Bus Replacement Project
2020 Volkswagen Environmental Mitigation Trust Funding

Program Overview
The Montana Department of Environmental Quality (DEQ) is issuing this Request for Applications (RFA) for Transit Bus replacement projects. This RFA is under the Volkswagen Environmental Mitigation Trust (EMT) Agreement for State Beneficiaries. Montana is a beneficiary of the Trust, and the DEQ has been designated as the lead agency to administer funds allocated to Montana. The purpose of the EMT is to address the additional nitrogen oxides (NOx) emissions from Volkswagen-manufactured diesel vehicles equipped with emissions testing defeat devices in violation of the federal Clean Air Act. Nitrogen oxides (NOx), are a family of poisonous gases that form when diesel and other fuel is burned at high temperatures. NOx pollution can irritate human respiratory function and can exacerbate asthma and increase susceptibility to respiratory infections.

Montana’s total allocation of the EMT is $12,600,000. Under the Volkswagen EMT, states can spend allocated funds on Eligible Mitigation Actions that are intended to mitigate mobile NOx emissions. Certain transit bus replacements are considered an Eligible Mitigation Action under the Trust Agreement. More information about eligible mitigation action categories can be found in Appendix D-2 of the Volkswagen Environmental Mitigation Trust Agreement for State Beneficiaries found here: http://deq.mt.gov/Energy/transportation/VW-Settlement-Page under “Settlement Documents.”

Through this RFA, DEQ will provide up to $3,660,000 for distribution to provide reimbursement funding for eligible transit bus replacement projects. The maximum funding request from each project sponsor and individual transit bus replacement varies by replacement bus technology and/or fuel and whether the project sponsor is a governmental or nongovernmental entity. Project cost share requirements also vary by project sponsor type and replacement vehicle technology/fuel. Detailed cost share requirements are provided on pages 7-8 of this RFA.

Purpose
This RFA seeks to support the overall goal of the Volkswagen Environmental Mitigation Trust (EMT) – reduction of mobile source NOx emissions – while also achieving the goals outlined in Montana’s Volkswagen EMT Beneficiary Mitigation Plan finalized in October 2018. These goals include:

1. Achieving mobile source NOx emission reductions across Montana; focusing on areas with the highest mobile source NOx emissions.
2. Achieving long-term air quality benefits for the greatest number of Montanans.
3. Investing in clean alternative fuels/infrastructure.
5. Reducing diesel emission exposure of sensitive populations.

This opportunity will fund the replacement of 2009 engine model year or older class 4-8 transit buses with any new all-electric, diesel hybrid, compressed natural gas (CNG), or propane transit buses.
**Point of Contact**
Starting on the issue date of this RFA, until successful applicants are selected and announced by DEQ, applicants are prohibited from communication regarding this RFA with any other Montana state agency staff, officials or evaluation team members regarding this solicitation, except for Neal Ullman at DEQ. Neal Ullman’s contact information is: e-mail: neal.ullman@mt.gov and phone: 406-444-6582. Any unauthorized contact may disqualify the applicant from further consideration.

**Schedule of Events and Term**
This funding opportunity closes on April 1, 2021 OR when the total $3,660,000 funding available has been awarded, whichever happens first. DEQ will review applications received by 5:00 pm local time on the application due date, per the application schedule below, contingent on available funding. DEQ will notify applicants if project will receive funding within approximately 30 days of the application due date, see application schedule below. Applicants can reapply during subsequent rounds by submitting a new application by the due date for each round as noted below.

The submission of an application under this RFA confers no right upon any applicant. To be eligible for funding, applicants and projects must meet the minimum project eligibility requirements described on pages 5-7 of this RFA. If the total project funding requests exceeds the total funding available, DEQ will evaluate and score projects based on the “Project Scoring Criteria Matrix” in Appendix A of this RFA. DEQ reserves the right to reject any application. DEQ will periodically provide updates on remaining funding under this RFA via its website at deq.mt.gov/energy.

**Application Schedule**
Completed applications must be sent via e-mail to Neal Ullman at neal.ullman@mt.gov no later than 5:00 pm local time on the application due dates listed below in order to be considered in that application review round.

<table>
<thead>
<tr>
<th>Round Number</th>
<th>Application Due Dates</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>July 1, 2020</td>
</tr>
<tr>
<td>2</td>
<td>September 1, 2020</td>
</tr>
<tr>
<td>3</td>
<td>November 1, 2020</td>
</tr>
<tr>
<td>4</td>
<td>February 1, 2021</td>
</tr>
<tr>
<td>5</td>
<td>April 1, 2021</td>
</tr>
</tbody>
</table>

Applications for the 2020-2021 funding opportunity will not be accepted after April 1, 2021.

DEQ will enter into a contractual agreement with those applicants slated to receive funding under this program. Agreements will define applicant’s responsibilities to include deliverables, schedule for project completion, and method of payment. All projects should be completed, and documentation provided to DEQ within 20 months of the contract execution date. Payments for eligible project expenses will be made on a reimbursement basis after DEQ receives all required deliverables from the applicant. The term for funding of each successful applicant will begin when the final contract is signed by all the parties and will end 20 months from the contract execution date. Extensions for project completion may be allowed if the applicant provides a reasonable justification to DEQ. The diesel transit bus being replaced must be scrapped within 90 days of receipt of the replacement transit bus.
The review team will evaluate submitted applications for eligibility and completeness and whether they meet the goals of this RFA. See “Eligibility Requirements” and “Application Materials and Instructions” below for further details. Should funding requests total more than the amount available in this RFA, applications will be competitively ranked using the Project Scoring and Criteria Matrix in Appendix A below.

**Helpful Resources**

- EPA’s EJScreen Environmental Justice Tool: [https://www.epa.gov/ejscreen](https://www.epa.gov/ejscreen)

**Eligibility Requirements**

**Applicant Eligibility**

Eligible Applicants include both Government and Non-Government entities. **Government** shall mean a federal, state, or local government agency (including a municipality, city, county special district, transit district, joint powers authority, or port authority, owning fleets purchased with government funds), and a Tribal government or native village. **Non-Government** entities include for profit businesses and non-profit organizations identified as having a tax-exempt declaration of from the Internal Revenue Service.

**Project Eligibility**

Transit buses eligible for replacement include **1992-2009 Class 4-8 Transit Buses**. **Transit buses** are those used in frequent stop service. Transit buses do not include charter buses or school buses. Class 4-8 means that the transit buses are 14,001 lbs. and greater.

Noting that EPA emission standards for heavy-duty highway engines went into effect in vehicles with model year of 2007 and later, the State will prioritize replacement of buses in Montana that are model year 2006 or older.

Eligible Transit buses may be replaced with any **Alternate Fueled** or **All-Electric Transit Bus**. Diesel for diesel replacement projects are not eligible for funding under this RFA. **Alternate Fueled** shall mean a vehicle that is powered by an engine which uses fuel different from or in addition to gasoline or diesel fuel (e.g., CNG, propane, diesel-electric hybrid). **All-Electric** shall mean powered exclusively by electricity provided by a battery, fuel cell, or the electric grid.

All replacement buses must be 2018 model year engine or newer and must operate in the project area for a minimum of 7 years.

No funds awarded under this RFA may be used for the purchase of vehicles to expand a fleet. All replacement transit buses will continue to perform a similar function and operation as the vehicle being replaced.
Project Eligibility Summary Table

<table>
<thead>
<tr>
<th></th>
<th>Old Transit Bus</th>
<th>New Transit Bus</th>
</tr>
</thead>
<tbody>
<tr>
<td>Class/Gross Vehicle Weight rating</td>
<td>Class 4-8, 14,001 lbs and greater</td>
<td>Not greater than 10% increase in GVWR. Consideration will be given to electric buses replacing diesel buses in a lower weight class.</td>
</tr>
<tr>
<td>Engine model year</td>
<td>1992-2009 (preference for 2006 or older)</td>
<td>2018 and newer</td>
</tr>
<tr>
<td>Fuel/Technology</td>
<td>Diesel</td>
<td>All-Electric or Alternate Fueled</td>
</tr>
<tr>
<td>Other</td>
<td>Must operate in project area for at least 7 years</td>
<td></td>
</tr>
</tbody>
</table>

The following projects are not eligible:

- Fleet expansion projects. New bus must be replacing an old bus.
- Buses or charging equipment purchased before the grant agreement/contract associated with this RFA is signed.
- Transit buses and/or related fueling technologies that are not commercially available.
- Rebuilds of existing vehicles.
- Repowered or re-manufactured engines.
- Charter bus replacement.
- Activity buses – buses used for transporting students to and from sporting, after school or other events.
- School bus replacement.

Recycling and Scrappage of Replaced Transit Bus:
Applicants must ensure that any bus to be replaced under this RFA is scrapped and shall bear the cost of scrapping. Successful applicants must agree to meet the following scrappage requirements:

a) All eligible transit buses to be replaced under this RFA must be scrapped within ninety (90) days of new vehicle delivery.

b) Scrapped shall mean to render inoperable and available for recycle, and, at a minimum, to specifically cut a 3-inch hole in the engine block and to disable the chassis by cutting the vehicle’s frame rails completely in half.

c) Written and photographic evidence of appropriate scrapping including verification of engine serial number and Vehicle Identification Number (VIN) is required as part of the deliverables submitted to DEQ and for final payment. Bus owner is responsible for documenting the scrapping of the existing bus. DEQ will provide successful applicants with a vehicle scrapping verification form.

Eligible Costs/Expenses
Subject to the cost share requirements and limits, eligible costs and expenses include:

- Total purchase cost of class 4-8 transit buses with any new alternate fueled or all-electric buses.
- Total purchase cost of eligible transit buses may include required costs to acquire the vehicle(s) such as taxes and delivery fees.
- For All-Electric replacement projects, acquisition and installation costs for associated charging infrastructure (All-Electric infrastructure costs) subject to cost-share requirements and limits.
Ineligible Costs/Expenses

⊙ Costs not integral to Transit Bus function (e.g., idle reduction technologies, etc.) cannot be considered eligible for reimbursement. Cost estimates must be provided as supporting documentation.

⊙ Expenses associated with scrappage of eligible Transit Buses to be replaced are ineligible for funding.

⊙ Expenses incurred before the awarding of a grant are ineligible for funding.

Application Eligibility

All applications along with associated application materials must be submitted to Neal Ullman at DEQ to be considered eligible for funding.

The review team will evaluate submitted applications for eligibility and completeness and whether they meet the goals of this RFA. See “Eligibility Requirements” and “Application Materials and Instructions” below for further details. Should funding requests total more than the amount available in this RFA, applications will be competitively ranked using the Project Scoring and Criteria Matrix in Appendix A below. The RFA will remain open to accept applications until funding is depleted or if DEQ closes the application period.

Cost Share

All projects are subject to the following funding limits and cost share requirements. The funding limit percentages for eligible transit buses refer to a percentage of the total eligible costs associated with transit bus purchases. Other sources of funding, including federal funding can supplement Volkswagen EMT funding.

### Electric Transit Bus or Fuel Cell Bus Replacement Projects

<table>
<thead>
<tr>
<th></th>
<th>Funding Limits Per Bus</th>
<th>Applicant cost share per bus</th>
<th>Charging infrastructure funding limits</th>
<th>Maximum total award per applicant*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Government applicant</td>
<td>70% or $550,000, whichever is less</td>
<td>30%</td>
<td>70% or $60,000, whichever is less</td>
<td>$1,100,000</td>
</tr>
<tr>
<td>Non-Government Applicant</td>
<td>50% or $400,000, whichever is less</td>
<td>50%</td>
<td>50%, or $50,000, whichever is less</td>
<td>$850,000</td>
</tr>
</tbody>
</table>

*Total award for All-electric replacements includes cost of buses and charging infrastructure

### Diesel Electric Hybrid Transit Bus Replacement Projects

<table>
<thead>
<tr>
<th></th>
<th>Funding Limits Per Bus</th>
<th>Minimum Applicant Cost Share Per Bus</th>
<th>Maximum total award per applicant</th>
</tr>
</thead>
<tbody>
<tr>
<td>Government Applicant</td>
<td>40% or $200,000, whichever is less</td>
<td>60%</td>
<td>$400,000</td>
</tr>
<tr>
<td>Non-government Applicant</td>
<td>25% or $127,500, whichever is less</td>
<td>75%</td>
<td>$255,000</td>
</tr>
</tbody>
</table>
### Other Alternate Fueled Transit Bus Replacement Projects (CNG, Propane)

<table>
<thead>
<tr>
<th></th>
<th>Funding Limits Per Bus</th>
<th>Minimum Applicant cost share per bus</th>
<th>Maximum total award</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Government Applicant</strong></td>
<td>20% or $70,000 whichever is less</td>
<td>80%</td>
<td>$140,000</td>
</tr>
<tr>
<td><strong>Non-government Applicant</strong></td>
<td>15% or $54,000 whichever is less</td>
<td>85%</td>
<td>$108,000</td>
</tr>
</tbody>
</table>

### Evaluation Priorities

A review team will evaluate, score, and rank all complete and eligible grant applications, including all supporting documentation (see the list of required supporting documentation in the Application Requirements Section below) using scoring criteria outlined in DEQ Priorities and Project Competitiveness on page 9-10 and Appendix A of this RFA. The goal of the Volkswagen Environmental Mitigation Settlement is to reduce NOx emissions from mobile sources, so the project must achieve a reduction of NOx emissions. This will occur by permanently removing the higher polluting diesel buses from service and replacing them with cleaner electric and alternative fueled buses purchased under this program.

### Contract Term

The term for funding each successful applicant will begin when the final contract is signed by all parties and will end on or before 20 months after the contract execution date.

### Reporting Requirements and Payment Requests

Quarterly reporting will be required from the project start date until the project is completed and project funds are received. More information on quarterly reporting, including deadlines and report templates will be provided to recipients after award notification. Payment of project expenses will take place on a reimbursement basis after DEQ receives documentation of scrapping, vehicle replacement and other required deliverables. The successful applicant must purchase the vehicle(s) and submit required proof of total costs and reimbursement invoice documentation before payment can occur.

### Application Materials and Instructions

Applicants must complete and submit the following information via e-mail to Neal Ullman:

1. Completed transit bus funding application with signature of individual responsible for authorizing and overseeing the completion of the project.
2. Copy of Existing Transit Bus Title(s): A copy of the title of the transit bus to be replaced to ensure that the model year and VIN are correct.
3. A clear legible photo of the engine label that captures the engine make, model, year, horsepower, serial number and engine family name for each bus proposed for replacement.
4. A clear, legible photo of the vehicle identification number (VIN) plate that includes VIN and gross vehicle weight rating (GVWR) for each bus proposed for replacement.
5. Bids for the replacement transit bus and charging equipment/infrastructure. Please provide three different bids for replacement buses for each bus to be replaced. If you are not able to receive three bids, please include a written explanation of the reason why.
6. A letter of commitment for match. Minimum cost share requirements are listed on pages 7-8 of this RFA. Please indicate if any matching funds will come from federal sources and/or if other partners will be contributing matching funds.


**DEQ Priorities and Project Competitiveness**

Each application will be ranked according to the following evaluation ranking criteria. Please submit one application per bus.

A. **Lifetime NOx emissions** – Projects achieving the greatest lifetime NOx emission reductions will receive priority over projects with lesser emissions reductions. Lifetime NOx reductions will be calculated using the following formula: (Remaining useful life of existing bus × Estimated Annual NOx Emission reduction). The remaining useful life is calculated as the difference between 19 years and the age of the existing vehicle engine. For example, the remaining life of a bus with a 2006 model year engine would be six years. Annual NOx reduction estimates must be calculated with Argonne National Lab’s AFLEET tool located at: [https://greet.es.anl.gov/afleet_tool](https://greet.es.anl.gov/afleet_tool)

B. **Priority Air Quality Areas** – Priority will be given to projects operating within counties that include areas that are currently in non-attainment, maintenance, or high risk for pollutants associated with mobile sources under the National Ambient Air Quality Standards (NAAQS). Priority counties also include those with the highest onroad mobile-source NOx emission rankings for Montana as provided in the 2014 National Emissions Inventory (2014 NEI). Projects operating in eligible designated Class I areas will also be given priority. Wilderness areas were not included due to very limited to no vehicle use in these areas. See Appendix B for a listing of priority air quality areas, NEI county rankings, and Class I areas.

C. **Annual Ridership** – Priority will be given to projects that would benefit the greatest number of riders. This criterion will be evaluated based on annual ridership for each bus.

D. **Annual Diesel Gallons** – Projects replacing currently operating diesel buses that use greater amounts of diesel fuel on an annual basis will be given priority over projects that replace buses that use less diesel fuel on an annual basis.

E. **Annual Greenhouse Gas Emissions** – Projects with lower annual estimated greenhouse gas emissions will be given priority over those with higher annual greenhouse gas emissions. Annual greenhouse gas emissions must be estimated using Argonne National Lab’s AFLEET tool located here: [https://afleet-web.es.anl.gov/afleet/](https://afleet-web.es.anl.gov/afleet/)

F. **Total mileage of bus being replaced** – Projects that seek to replace transit buses with lower total mileage will be given priority over those projects that replace buses with higher total mileage.

G. **Sensitive populations** – Priority will be given to projects operating in sensitive areas or serving sensitive populations. These areas/populations may bear a disproportionate burden associated with high concentrations of diesel emissions. Please describe and include any supporting information (route maps, etc.) on whether the transit bus operates in or near the following sensitive locations:
   a. Schools, childcare facilities (daycare, preschool, etc.)
   b. Senior housing, or assisted living facilities
DEQ will use the environmental and demographic indicators in EPA’s Environmental Justice screening tool and compare demographic information and environmental and economic risk factors against the rest of Montana’s population to help evaluate this criterion. The tool can be found at: [https://www.epa.gov/ejscreen](https://www.epa.gov/ejscreen)

## Appendix A: Project Scoring Criteria Matrix

<table>
<thead>
<tr>
<th>Criteria*</th>
<th>Low 1 point</th>
<th>Medium 3 points</th>
<th>High 5 points</th>
<th>Weight</th>
<th>Total**</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total lifetime NOx reductions estimate (lbs.) per bus</td>
<td>1-700 lbs.</td>
<td>701-1,400 lbs.</td>
<td>1,401 lbs. or greater</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>Located in Priority Counties or Class I areas listed in Appendix B</td>
<td>Not located in top 1-10 highest for mobile on road NOx emissions. And not located in nonattainment, maintenance, or Class I area.</td>
<td>Located in county ranking 1-10 highest for on road NOx emissions, or Maintenance area</td>
<td>Located in Nonattainment area or Class I area</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>Located in Priority Counties or Class I areas listed in Appendix B that has not received funding from Montana’s allocation of the Volkswagen EMT.</td>
<td>Not located in top 1-10 highest for mobile on road NOx emissions. And not located in nonattainment, maintenance, or Class I area. And located in area that has not received funding from Montana’s allocation of the Volkswagen EMT.</td>
<td>Located in county ranking 1-10 highest for on road NOx emissions, or Maintenance area that has not received funding from Montana’s allocation of the Volkswagen EMT.</td>
<td>Located in Nonattainment area or Class I area that has not received funding from Montana’s allocation of the Volkswagen EMT.</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>Annual Ridership of bus to be replaced*</td>
<td>15,000 riders or less</td>
<td>15,001-25,000 rides</td>
<td>25,001 or greater rides</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Current annual diesel fuel gallons used for bus being replaced*</td>
<td>1,000-3000 gallons</td>
<td>3,001-6,000 gallons</td>
<td>6,001 gallons or greater</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Estimated annual greenhouse gas</td>
<td>81 or greater short tons</td>
<td>41-80 short tons</td>
<td>0-40 short tons</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>
emissions* (CO₂, etc.)

| Total engine miles of the bus being replaced (odometer reading) | 250,000 miles or greater miles | 150,000-249,000 miles | Less than 150,000 miles | 3 |

*Estimate total per bus being replaced. Each bus will be scored separately.
**The total points for each criterion will be calculated by multiplying the score by the weight.

Additional criteria for consideration:

<table>
<thead>
<tr>
<th>Criteria Description</th>
<th>Maximum Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Project operates in or near sensitive locations and/or serves sensitive populations. Sensitive locations are listed in item G. in evaluation criteria above. Sensitive populations are those that are at greater risk of exposure to air pollution when compared to the rest of Montana. DEQ will use EPA’s EJ screening tool to help evaluate risk factors.</td>
<td>25</td>
</tr>
</tbody>
</table>

Appendix B: Priority Air Quality Counties and Areas

 Counties that include nonattainment, maintenance, or at-risk areas for certain pollutants associated with mobile sources (transportation).

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>County</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>PM-2.5</td>
<td>Lincoln</td>
<td>Nonattainment</td>
</tr>
<tr>
<td>PM-2.5</td>
<td>Flathead</td>
<td>At risk</td>
</tr>
<tr>
<td>PM-2.5</td>
<td>Missoula</td>
<td>At risk</td>
</tr>
<tr>
<td>PM-2.5</td>
<td>Lewis and Clark</td>
<td>At risk</td>
</tr>
<tr>
<td>PM-2.5</td>
<td>Silver Bow</td>
<td>At risk</td>
</tr>
<tr>
<td>PM-2.5</td>
<td>Powder River</td>
<td>At risk</td>
</tr>
<tr>
<td>PM-2.5</td>
<td>Ravalli</td>
<td>At risk</td>
</tr>
<tr>
<td>CO</td>
<td>Yellowstone</td>
<td>Maintenance</td>
</tr>
<tr>
<td>CO</td>
<td>Cascade</td>
<td>Maintenance</td>
</tr>
<tr>
<td>CO</td>
<td>Missoula</td>
<td>Maintenance</td>
</tr>
</tbody>
</table>

Eligible Class I Areas
- Fort Peck Reservation
- Northern Cheyenne Reservation
- Flathead Reservation
- Yellowstone National Park
- Glacier National Park

Mobile Onroad NOx emissions – Top 10 Counties