



MISSOURI DEPARTMENT OF NATURAL RESOURCES  
AIR POLLUTION CONTROL PROGRAM  
**VOLKSWAGEN TRUST LOCOMOTIVE AND MARINE PROGRAM APPLICATION**

Submit completed applications by email to [MOVWTeam@dnr.mo.gov](mailto:MOVWTeam@dnr.mo.gov).

LEGAL NAME OF ORGANIZATION

TELEPHONE NUMBER WITH AREA CODE

MAILING ADDRESS

CITY

STATE

ZIP CODE

**A. APPLICANT INFORMATION**

1. TYPE OF APPLICANT (CHECK ONE)

PRIVATE ENTITY  GOVERNMENT ORGANIZATION  OTHER (EXPLAIN)

COMPANY OR ENTITY APPLYING FOR FUNDING

2. NAME OF AUTHORIZED OFFICIAL

TITLE

TELEPHONE NUMBER WITH AREA CODE

EMAIL ADDRESS

3. PRIMARY CONTACT NAME

TITLE

TELEPHONE NUMBER WITH AREA CODE

EMAIL ADDRESS

4. SECONDARY CONTACT NAME

TITLE

TELEPHONE NUMBER WITH AREA CODE

EMAIL ADDRESS

**B. PROJECT SUMMARY**

5. GENERAL DESCRIPTION OF PROJECTS (IF NEEDED, ATTACH ADDITIONAL SHEETS TO DESCRIBE PROJECTS)

**C. APPLICANT AGREEMENT**

I hereby certify that:

- The information in this application is true and correct.
- The organization I represent has sufficient resources to conduct this project while awaiting reimbursement from the department.
- I understand the department may require operational records to verify the accuracy of the application.
- I agree to the Volkswagen Trust Locomotive and Marine Program Requirements.
- I understand I may be considered for funding under the Federal Diesel Emissions Reduction Act (DERA).

6. SIGNATURE

DATE

7. HOW DID YOU FIND OUT ABOUT THE VW TRUST FUND?

DNR WEBSITE  EMAIL  TWITTER  TV/RADIO  NEWSPAPER OTHER:

**D. PROJECT DETAILS – SWITCH LOCOMOTIVE**

Fill out a new project detail page for each vehicle you are applying to replace or repower.

<b>8. FUNDING INFORMATION</b> <small>(Restrictions apply – see program requirements)</small>	REQUESTED FUNDING FOR THE INDIVIDUAL VEHICLE INCLUDED ON THIS PAGE \$
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<b>9. TYPE OF PROJECT</b>	<input type="checkbox"/> Replacement <input type="checkbox"/> Repower	10. VEHICLE DESCRIPTION
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<b>11. OLD VEHICLE/ ENGINE INFORMATION</b>	VEHICLE TYPE: <input type="checkbox"/> Switch Locomotive		
	ENGINE MODEL YEAR	BASELINE ENGINE TIER	FUEL TYPE
	ENGINE MAKE	ENGINE MODEL	ENGINE HORSEPOWER
	ENGINE SERIAL NUMBER	FLEET UNIT NUMBER	

USAGE PERIOD: <input type="checkbox"/> 2019-2017 AVERAGE <input type="checkbox"/> 2019	MOST RECENT ANNUAL FUEL CONSUMPTION (GALLONS)	MOST RECENT ANNUAL USE HOURS, INCLUDE IDLE	
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<b>12. NEW VEHICLE/ ENGINE INFORMATION</b>	ENGINE MODEL YEAR (MUST BE TIER 4 OR BETTER)	FUEL TYPE	IF PROPANE, NATURAL GAS, OR HYBRID, LIST NO <sub>x</sub> CERTIFICATION LEVEL (G/BHP-HR)
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**13. AREA OF OPERATION**

List the percent of operating time the vehicle spends in each county/area listed in this table. This information is to determine eligibility and will affect the ranking process the department will use to select awardees. Operating time must total 100%.

COUNTY/AREA	PERCENT OF OPERATING TIME
St. Louis County and St. Louis City	
St. Charles County	
Jefferson and Franklin counties	
Jackson County	
Clay and Platte counties	
Greene County	
Boone County	
Any county in Missouri not listed above	
Outside the state of Missouri	

**D. PROJECT DETAILS - MARINE**

Fill out a new project detail page for each engine group (propulsion or auxiliary) you are applying to replace.

<b>8. FUNDING INFORMATION</b> <small>(Restrictions apply – see program requirements)</small>	REQUESTED FUNDING FOR THE INDIVIDUAL VEHICLE INCLUDED ON THIS PAGE <b>\$</b>
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<b>9. TYPE OF PROJECT</b>	<input type="checkbox"/> Repower	10. VEHICLE DESCRIPTION
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<b>11. OLD VEHICLE/ ENGINE INFORMATION</b>	VEHICLE TYPE (CHOOSE ONE): <input type="checkbox"/> Ferry <input type="checkbox"/> Tugboat/Towboat		
	ENGINE TYPE (CHOOSE ONE): <input type="checkbox"/> Propulsion <input type="checkbox"/> Auxiliary		
	ENGINE MODEL YEAR	BASELINE ENGINE TIER	FUEL TYPE
	NUMBER OF ENGINES IN ENGINE GROUP	ENGINE MAKE	ENGINE MODEL
	ENGINE HORSEPOWER PER ENGINE	ENGINE SERIAL NUMBER(S)	FLEET UNIT NUMBER (VESSEL NAME)

USAGE PERIOD: <input type="checkbox"/> 2019-2017 AVERAGE <input type="checkbox"/> 2019	MOST RECENT ANNUAL FUEL CONSUMPTION PER ENGINE (GALLONS)	MOST RECENT ANNUAL USE HOURS PER ENGINE, INCLUDE IDLE	TOTAL ENGINE CYLINDER DISPLACEMENT (LITERS)
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<b>12. NEW VEHICLE/ ENGINE INFORMATION</b>	ENGINE MODEL YEAR (MUST BE TIER 3 OR BETTER)	FUEL TYPE	IF PROPANE, NATURAL GAS, OR HYBRID, LIST NO <sub>x</sub> CERTIFICATION LEVEL (G/BHP-HR)
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**13. AREA OF OPERATION**

MAIN PORT PHYSICAL LOCATION (CITY, STATE):

List the percent of operating time the vehicle spends in each county/area listed in this table. This information is to determine eligibility and will affect the ranking process the department will use to select awardees. Operating time must total 100%.

COUNTY/AREA	PERCENT OF OPERATING TIME
St. Louis County and St. Louis City	
St. Charles County	
Jefferson and Franklin counties	
Jackson County	
Clay and Platte counties	
Greene County	
Boone County	
Any county in Missouri not listed above	
Outside the state of Missouri	

## Instructions

The Missouri Department of Natural Resources (department) will use \$2 million from Missouri's Volkswagen (VW) Trust funds to implement a repower and replacement program for locomotive and marine projects in Missouri. Organizations in Missouri that own switch locomotives or marine vessels meeting certain criteria are eligible to apply for VW Trust Awards (Award), as described in the Volkswagen Trust Locomotive and Marine Program Requirements.

This is a reimbursement program. After the department approves projects for Award, applicants must provide the total upfront cost for the project and fulfill all program requirements. Upon completion of the project, as described in the Volkswagen Trust Locomotive and Marine Program Requirements, the applicant will receive reimbursement for the amount specified in the Award up to the maximum allowed per program requirements. The maximum amount of funding applicants may request through this funding opportunity is \$1 million. There is no limit on the number of projects per applicant.

**The deadline to submit applications to the department is March 31, 2020 by 5 p.m. CDT. Applications must be submitted through email to [MOVWTeam@dnr.mo.gov](mailto:MOVWTeam@dnr.mo.gov).**

Application Checklist:

1. Read and agree to VW Trust Locomotive and Marine Replacement Program Requirements.
2. Complete Application Form. Be sure that all information is accurate.
3. Submit completed Application Form via email during the application acceptance period.

Applicants may direct all questions pertaining to this application to [MOVWTeam@dnr.mo.gov](mailto:MOVWTeam@dnr.mo.gov). Please include in the subject line of the email, Locomotive and Marine Question.

### Section A. Applicant Information

Application Deadline	March 31, 2020 by 5 p.m. CDT
1. Type of Applicant	Check the box that applies. If other please explain.
2. Authorized Official	Enter the contact information for the person authorized to enter into an agreement with the department.
3. Primary Contact	Enter the contact information for the main point of contact for the project (this could be the same person as authorized official). All correspondence will be sent to this contact.
4. Secondary Contact	Enter the contact information for a secondary point of contact for the project. This person will be contacted in the case that the Primary Contact is unavailable. This contact will be copied on all email correspondence.

## Section B. Project Summary

5. General Description of Projects	Enter a brief summary of your proposed project. You may also include any additional relevant information about your proposed project that is not provided in the other application fields. Please include the total number of vehicles you are including on the application for replacement or repower. If requesting approval to combine MO VW Funds with other grants or programs please provide details and expressly request for approval.
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### Eligible Projects

- Switch locomotive replacements
- Switch locomotive repowers
- Tugboat or ferry engine repowers

**See program requirements for specific information and restrictions regarding eligible projects.**

By signing the application, the applicant agrees to be considered for funding under the Federal Diesel Emissions Reduction Act (DERA). This gives the applicant an additional opportunity for funding if they are not selected for funding under the Trust. The applicant also agrees to provide the required documentation and assurance necessary for funding, per the Volkswagen Trust Locomotive and Marine Program Requirements.

## Section C. Applicant Agreement

6. Signature and Date	Sign and date in the signature field to certify that the statements and information provided in this application are true and accurate.
7. How Did You Find Out About the VW Trust Fund	Check the box that corresponds to how you found out about the VW Trust Fund. If "Other" please explain.

## Section D. Project Details

Use multiple Section D forms if you are applying to repower or replace multiple switch locomotives or marine vessel engine groups. Each switch locomotive and marine vessel engine group should have a separate Section D page.

### Locomotive Project:

8. Funding Information	Enter requested funding amount for the individual locomotive project. See program requirements for cost share requirements. This should only include the necessary Award amount for the individual locomotive project included on this page. If multiple locomotives are included on the application, do not include any requested funds for other locomotives in this field.			
9. Type of Project	Check to indicate whether you want to replace or repower the locomotive included on this page.			
10. Vehicle Description	Enter a description of the locomotive included on this page. Can include how the locomotive is used during operation or any other identifying description.			
11. Old Vehicle/Engine Information	Enter the vehicle/engine information of the old switch locomotive that you want to replace or repower.	Enter model year of engine	Enter baseline engine tier (if available)	Enter fuel type
		Enter engine make	Enter engine model	Enter engine horsepower
		Enter engine serial number	Enter fleet unit number	
	Select the usage period reported - Applicants may either report annual fuel consumption and usage hours from 2019 or the 3-year average from 2017-2019.	Enter the annual average fuel consumption from period selected	Enter the annual average usage hours for the locomotive from period selected. Idling hours are included as usage hours.	
12. New Vehicle/Engine Information	Enter the vehicle/engine information of the new switch locomotive you are planning to purchase through the program.	Enter engine model year	Enter fuel type	Enter NO <sub>x</sub> certification of the new engine if switching to propane, CNG, or hybrid. For diesel replacements or all-electric this can be left blank.
13. Area of Operation	Enter percent of operating time the locomotive you want to replace or repower spends in each county/area listed. Operating time should total 100 percent.			

### Marine Vessel Project:

8. Funding Information	Enter requested funding amount for the marine vessel engine group repower. See program requirements for cost share requirements. This should only include the necessary Award amount for the individual marine vessel repower project included on this page. If multiple marine vessels or multiple engine groups (propulsion and auxiliary) on the same vessel are included on the application, do not include requested funds for other vessels or engine groups in this field.			
9. Type of Project	Check to indicate that you plan to repower the marine vessel engine group included on this page.			
10. Vehicle Description	Enter a description of the engine group included on this page. Can include how the vessel is used during operation or any other identifying description.			
11. Old Vehicle/Engine Information	Enter the vehicle/engine information of the old engine group that you want to repower. (List one engine group per section D page)	Choose a vehicle type and engine group type		
		Enter engine model year	Enter baseline engine tier (if available)	Enter fuel type
		Enter number of engines in group	Enter engine make	Enter engine model
		Enter horsepower for a single engine	Enter all engine serial numbers	Enter fleet number or vessel name
	Select the usage period	Enter the annual	Enter the	Enter total cylinder

	reported - Applicants may either report annual fuel consumption and usage hours from 2019 or the 3-year average from 2017-2019.	average fuel consumption from period selected	annual average usage hours for this engine group from period selected. Idling hours are included as usage hours.	displacement in liters for one engine
12. New Vehicle/Engine Information	Enter the vehicle/engine information of the new engine you are planning to purchase through the program.	Enter engine model year	Enter fuel type	Enter NO <sub>x</sub> certification if switching to propane, CNG, or hybrid. For diesel repowers or all-electric, this can be left blank.
13. Area of Operation	Enter percent of operating time the vehicle you want to repower spends in each county/area listed. Operating time should total 100 percent.			

### Ranking Process

Project scoring is based on the amount of Award dollars per pound of lifetime NO<sub>x</sub> emissions reduced. The price per pound of a project may be modified based on the area of operation.

The department will use a competitive scoring process to select eligible vehicles proposed for repower or replacement on each application. The department will rank individual projects on the calculated price per pound.

The department will award funds to applicants for individual projects that receive the lowest cost per pound.

See the examples in Missouri's Implementation Guidelines for Locomotive and Marine projects to find details on how the department will calculate the price per pound.

To calculate the total lifetime NO<sub>x</sub> emission reductions for each project, the department will use EPA's Diesel Emissions Quantifier Tool and the information provided on the application:

Diesel Emissions Quantifier Inputs	Application
Vehicle or Engine Group	Based on Vehicle Type checkbox selection
Quantity	The number of engines in the marine vessel's engine group, or 1 for locomotive projects
Baseline engine model year	Engine model year
Baseline fuel type	Fuel type (diesel = ulsd)
Baseline Tier Rating	Baseline engine tier
Horsepower	Engine horsepower per engine
Cylinder Displacement	Total cylinder displacement (liters)
Annual fuel gallons	2018 or 2016-2018 average annual fuel consumption
Annual usage hours	2018 or 2016-2018 average annual usage hours
Remaining life of baseline engine/vehicle	<ul style="list-style-type: none"> <li>o All existing and new locomotives have a total useful life of 60 years</li> <li>o All existing and new marine vessels have a total useful life of 40 years</li> <li>o All projects still in use for the year prior to application are assumed to have at minimum 5 years of useful life remaining</li> </ul>
Upgrade year	The year the project is planned to occur.
New Engine Year	New engine model year

This example shows a possible area of operation for a vehicle applying for funds. A vehicle with an operating area shown below would receive a scoring modification due to the percentage of time operating in target areas. For marine vehicles, operation along the border of, or at a port located in, one of the listed counties may be accounted for as being time spent within that county. Not all counties used in this example provide scoring modifications.

**Example:**

13. AREA OF OPERATION	
List the percent of operating time the vehicle spends in each county/area listed in this table. This information is to determine eligibility and will affect the ranking process the department will use to select awardees. Operating time must total 100%	
COUNTY/AREA	PERCENT OF OPERATING TIME
St. Louis County and St. Louis City	60%
St. Charles County	10%
Jefferson and Franklin Counties	
Jackson County	
Clay and Platte Counties	
Greene County	
Boone County	
Any county in Missouri not listed above	20%
Outside the state of Missouri	10%