

Anne Galamb

Environmental Specialist

NC DENR – Division of Air Quality

November 18, 2010

Division of Air Quality – NC Diesel Emission Reduction Grant

Background

- **In place of normal annual MSER Grant**
- **Funding entirely from EPA grant**
- **2010/2011 funding is diesel emission reduction projects**

Main Details

- Total Funding Available State-wide = \$350,000
- The project proposal are due January 17, 2010

Eligible Entities

- **Local Governments**
- **For profits**
- **Non-profits**
- **Universities and all private/public schools**
- **Individuals**

How Much is Covered?

- 100% of cost of retrofits
- 50% cost of repowers
- 25% of replacements
- Alt fuel projects 25% or incremental whichever is more
- Biodiesel incremental over pet. diesel

Examples On-Road Projects:

- Replacement or alternative fuel truck projects.
- Biodiesel buy-down projects.
- School bus projects.
- All other projects that don't fit in another category.
- No infrastructure projects.



**NC Environment and Natural Resources
 Division of Air Quality
 2011 Diesel Emission Reduction Grant
 Request for Proposals
 Proposals will be accepted until December 31, 2010.**

TO APPLY CHOSE ONE OF THE OPTIONS BELOW:

On-Road Mobile Projects

Off-Road Projects

Mandatory Cover Form for On-Road Projects (Word) (PDF)	Off-road Mobile Equipment, Pumps and Generator Replacements and Repowers (excluding marine diesel repowers) (Excel) (PDF)
General On-Road Proposal Template (Word) (PDF)	Marine Diesel Repowers (Excel) (PDF)
Instructions for General Template (PDF)	All Off-Road Equipment Retrofits (Excel) (PDF)

Examples On-Road Projects:

- Replacement or alternative fuel truck projects
- Biodiesel buy-down projects
- School bus projects
- All other projects that don't fit in another category.

Examples Off-Road Projects:

- Construction Equipment
- Marine Diesel Vessels
- Airports/ Marine Port Support Equipment
- Agricultural Pumps and generators
- Agricultural Irrigation
Trains

NEW for the 2011 Diesel Emission Reduction Grant.

This request for proposals is funded by a federal grant which allows for funding diesel emission reduction grants only.

HOW TO SUBMIT YOUR PROPOSAL(S)

E-mail: anne.galamb@ncdenr.gov

By United States Mail:
Anne Galamb
 NCDENR-Division of Air Quality
 1641 Mail Service Center
 Raleigh, NC 27699-1641

PROJECT SELECTION CRITERIA

- 1) **Amount of matching** or in-kind funds
- 2) **Emissions Reductions or Quantitative Benefits:** DAQ will calculate emissions based on applicant provided information.
- 3) **Other Benefits:** e.g. health, less fuel used, etc.
- 4) **Permanence of Benefits from the Project.** How long or how much longer will this equipment funded last?
- 5) **Cost Effectiveness** (\$ per tons reduced.) – DAQ

2011 Diesel Emission Reduction Grant Mandatory Cover Form

This form is to be used with the General Proposal Template. It may be used for any Diesel Emission Reduction Grant project, however, nonroad projects have applications forms available, if preferred.

Project Title:	_____
Project Coordinator:	_____
Organization/Business Name:	_____
Organization Type:	_____
Mailing Address:	_____
City:	_____
County:	_____
Zip:	_____
Telephone:	_____
FAX:	_____
Email:	_____

Alternate Contact Name:	_____
Alternate Contact Telephone:	_____
Alternate Contact E-mail:	_____

Amount Requested:	\$ _____
Amount of Matching Funds:	<i>Cash</i> \$ _____ <i>In-kind</i> \$ _____
Project Summary:	_____

Date:	_____
Signature of Authorized Representative (Signature certifies authority to represent this organization in this application. Unsigned applications cannot be accepted.) Attach this page to the front of your proposal.	_____

2011 Diesel Emission Reduction Grant Proposal Template

This template must be accompanied by the 2011 DERG Mandatory Cover Form. It may be used for any on-road mobile project.

0. 2011 DERG Cover Form

1. Introduction and Project Description

1a. Briefly describe your organization and the staff who will be working on the project.

1b. Clearly describe what you plan to do with the funds, if awarded.

1c. Address any "Project Specific Requirements". (See Instructions for the 2011 Diesel Emission Reduction Grant Proposal Template for Project Specific Requirements)

2. Quantifiable Reductions

Question	Answer	
Number of vehicles in the project		
	Old	New
Model year/engine year of equipment		
EPA Tier Level, if applicable and known		
Fuel type e.g. diesel, B5, etc.		
Average number of hours idling per year		
Average miles traveled per year		
Hours of operation (for off-road equipment)		
Average annual fuel usage		
Type of vehicles: e.g. school buses, refuse trucks.		

2b. Describe the new equipment:

- It should be similar horsepower and use to the old equipment
- Describe brand, emissions or Tier standard
- Is the equipment new or remanufactured?

2010 Diesel Emission Reduction Grant Proposal Template

This template must be accompanied by the 2010 DERG Cover Form. It may be used for any on-road mobile project.

3. **Unquantifiable benefits**
Describe any unquantifiable benefits in this section or other reasons besides emission reductions why this project should be selected for funding.

4. **Budget**
Provide an itemized listing of all the project costs including total amount of funds requested, any other sources of funds both from the applicant and other sources.

Budget Table

Item	Total Project Cost	DENR-DAQ	Your Organization
Total			

5. **Permanence of Benefits**
State the full lifetime of project equipment and state the remaining lifetime of project equipment at the time the project occurs.

How long does this equipment typically last when new?	Years	
How much of the life of the equipment will be left after the project is complete?	Years	

6. **Project Timetable or Schedule**
6a. **Timetable**
Provide a step by step estimate of how long it will take to complete your project. Due to variable contract processing time, make the schedule relative to your contract start date rather than hard dates. E.g. 1 month after the contract is in place – order for school bus retrofits will be made. Make sure to allow for delays in deliveries, etc. Contract extensions are allowable but are extra avoidable work for all involved.

2010 Diesel Emission Reduction Grant Proposal Template

This template must be accompanied by the 2010 DERG Cover Form. It may be used for any on-road mobile project.

Example Schedule:

Task	Time
Contract Begins	Spring – Summer 2011
Contract ends – Final report and invoice are due.	

6b. Timeline – Seasonal Concerns

Please indicate with a “yes” or a “no” in the table below the months in which the work on this project can possibly take place. For example, some equipment cannot be taken out of service in the summer because it is being used steadily.

January	February	March	April	May	June

July	August	September	October	November	December

7. Assurances

By signing below the grantee assures that any equipment purchased with this grant will remain in NC for 70% of the time for the next 3 years.

Good Faith Commitment of Location of Equipment Activity	
As an authorized official of _____ (print organization name) which owns the equipment described in this application, I attest that at least 70% of the equipment's operation will occur in North Carolina for the next 3 years.	
_____ <small>Signature</small>	_____ <small>Date</small>
_____ <small>Printed/typed Name</small>	_____ <small>Title</small>

2010 Diesel Emission Reduction Grant Proposal Template

This template must be accompanied by the 2010 DERG Cover Form. It may be used for any on-road mobile project.

8. *Appendix*
 - This is optional
 - Maximum of 4 pages
 - Letters of intent from contributors of matching funds or in-kind contributions if applicable
 - Other

Examples of Off Road Projects

- Construction Equipment.
- Marine Diesel Vessels.
- Airports / Marine Port Support Equipment.
- Agricultural Pumps and Generators.
- Agricultural Irrigation.
- Trains.



NC Department of Environment and Natural Resources Division of Air Quality
2011 Diesel Emission Reduction Grant

Nonroad Equipment Replacement or Repower

Use this form to apply for funding to repower or replace a piece of nonroad mobile equipment, pumps and generators. The grant will reimburse a portion of the cost to purchase and install a replacement engine and associated equipment minus the scrappage/remanufacturing value of the old engine. The old engine must be destroyed, rendered permanently inoperable, or remanufactured.

Off-road equipment powered by an engine 25 horsepower or greater qualifies under this project if it is operated at least 70% of the time in NC.

Applicant	
Company	
Address	
Phone Number	Fax
Project Manager	Title
Email	County

Description of Applicant's Business
Describe your company's size, location, and type of work usually performed

Additional Benefits
Besides, cleaner air, what other benefits will this project have for your organization and community?

Funding	
Vendor quotes, and itemized invoices will be required if award is granted	
Total Project Cost	\$ _____
Funding Requested	\$ _____

	Original	New
Equipment Description (See Equipment Description List)		
Equipment Make		
Equipment Model / Model Number		
Equipment Model Year		
Engine Make		
Engine Model / Model Number		
Engine Model Year & EPA Tier		
Engine Horsepower		
Fuel Type		

Cost to the Applicant

Type of Project: Replacement (replace entire piece of equipment) _____ Repower (replace engine only) _____

A. Cost of new engine/equipment including sales tax and delivery charges	\$
B. Additional parts and supplies (repowers only)	\$
C. Installation, including cost to remove and dispose of old engine (repower only)	\$
D. Scrappage/Remanufactured value (Default \$1000)	\$
E. Value of any other financial incentives (e.g. tax credits or other grants)	\$
F. Cost to the Applicant (F=A+B+C-D-E)*	\$

*You can request reimbursement of up to 50% of this cost for an equipment repower or 25% of the cost of a replacement.

Good Faith Commitment of Location of Equipment Activity

organization name) which owns the construction equipment described in this application, I attest that at least 70% of the equipment's operation will occur in North Carolina for the next 3 years.

Signature	Date
Printed/typed Name	Title

Equipment Operation

Anticipated annual hours of operation	_____
Annual Fuel Volume	_____
Estimated life of new equipment (must be at least 5 years)	_____

Authorized Signature

Signature	Date
Printed Name	Title

E-mail/mail or fax completed applications to:

Anne Galamb
 NCDENR - Division of Air Quality
 Mobile Sources Branch
 1641 Mail Service Center
 Raleigh, NC 27689-1641

If you have questions contact:

Anne Galamb
 919 715-8298
anne.galamb@ncdenr.gov
 Fax: 919 733-1812

Project Schedule

Plan out your project. Make sure you allow for possible delays especially on things outside your control e.g. deliveries. Make sure you allow yourself time to gather invoices and fill out the final report. Don't use hard dates. Make everything relative to the contract start. E.g. 1

Task	When Complete
Contract begins	Spring/Summer 2011
Contract ends	

Seasonal Concerns

Are there months of the year when you cannot perform the work on the project because the equipment is in constant use? Please indicate these below with a

January		July	
February		August	
March		September	
April		October	
May		November	
June		December	



North Carolina Department of Environment and Natural Resources
Division of Air Quality

2011 NC Diesel Emission Reduction Grant Equipment Retrofit

Use this form to apply for funding to repower or replace a piece of nonroad mobile equipment, pumps and generators. The grant will reimburse a portion of the cost to purchase and install a replacement engine and associated equipment minus the scrappage/remanufacturing value of the old engine. The old engine must be destroyed, rendered permanently inoperable, or remanufactured.

Off-road equipment powered by an engine 25 horsepower or greater qualifies under this project if it is operated at least 70% of the time in NC.

Applicant	
Company	
Address	
Phone Number	Fax
Project Manager	Title
Email	County
Authorized Official	Title

Description of Applicant's Business
Describe your company's size, location, and type of work usually performed

Additional Benefits
Besides, cleaner air, what other benefits will this project have for your organization and community?

Funding	
Vendor quotes, and itemized invoices will be required if award is granted	
Total Project Cost	\$ _____
Funding Requested	\$ _____

If your project is selected for funding, additional information will be requested in order to develop a contract to be executed between NCDENR - Division of Air Quality and your organization.

Retrofit Equipment Information	
Equipment Description (See Equipment Description List)	
Equipment Make / Model	
Equipment Model Year	
Engine Make /Model	
Engine Model Year & EPA Tier	
Engine Horsepower	
Fuel Type	
Retrofit Device Manufacturer / Product	
Agency Verifying Retrofit Device (US EPA or CARB)	
Verified Emission Reductions (%)	

Cost	
A. Cost of retrofit device including installation, sales tax and delivery charges	\$ _____
B. Value of any other financial incentives/assistance	\$ _____
C. Total Cost (C=A-B)*	\$ _____
*You can request reimbursement of up to 100% of the cost	

Good Faith Commitment of Location of Equipment Activity	
As an authorized official of _____ (print organization name) which owns the construction equipment described in this application, I attest that at least 70% of the equipment's operation will occur in North Carolina for the next 3 years.	
_____ Signature	_____ Date
_____ Printed/Typed Name	_____ Title

Equipment Operation	
Anticipated annual hours of operation	_____
Annual Fuel Volume	_____
Estimated life of new equipment (must be at least 5 years)	_____

Authorized Signature	
_____ Signature	_____ Date
_____ Printed/Typed Name	_____ Title

E-mail/mail or fax completed applications to:
 Anne Galamb
 NCDENR - Division of Air Quality
 Mobile Sources Branch
 1641 Mail Service Center
 Raleigh, NC 27699-1641

If you have questions contact:
 Anne Galamb
 919 715-6296
anne.galamb@ncdenr.gov
 Fax: 919 733-1812

Project Schedule

Plan out your project. Make sure you allow for possible delays especially on things outside your control e.g. deliveries. Make sure you allow yourself time to gather invoices and fill out the final report. Don't use hard dates. Make everything relative to the contract start. E.g. 1 month after contract starts, etc. Feel free to use more space as needed.

Task	When Complete
Contract begins	Spring/Summer 2011
Contract ends	

Seasonal Concerns

Are there months of the year when you cannot perform the work on the project because the equipment is in constant use? Please indicate these below with a "yes" or "no". "Yes" meaning you can work on the project and "no" meaning you cannot.

January		July	
February		August	
March		September	
April		October	
May		November	
June		December	



North Carolina Department of Environment and Natural Resources
Division of Air Quality

**2011 NC Diesel Emissions Reduction Grant Application:
Marine Diesel Equipment Repower**

Use this form to apply for a grant to repower a marine engine. The grant will reimburse a portion of the cost to purchase and install a replacement engine and associated equipment minus the scrappage/remanufacturing value of the old engine. The old engine must be destroyed, rendered permanently inoperable, or remanufactured.

Large commercial mobile marine equipment powered by diesel engines qualify under this project if it is operated at least 70% of the time in NC.

Applicant	
Company	
Address	
Phone Number	Alt Phone Number
Project Manager	Title:
Email	Fax
Authorized Official	County

Description of Applicant's Business
Describe your company's size, location, and type of work usually performed

Brief Description of Equipment Repower
Describe the equipment to be repowered and how and when it will be used

Funding	
Vendor quotes, and itemized invoices will be required if award is granted	
Total Project Cost	\$ _____
Funding Requested	\$ _____

If your project is selected for funding, additional information will be requested in order to develop a contract to be executed between NCDENR - Division of Air Quality and your organization.

Repower Information	Original Engine	New Engine
Equipment Description (See Equipment Description List)		
Equipment Make		
Equipment Model / Model Number		
Equipment Model Year		
Engine Make		
Engine Model / Model Number		
Engine Model Year & EPA Tier		
Engine Horsepower		
Fuel Type		

Cost to the Applicant

A. Cost of new engine including sales tax and delivery charges	\$
B. Additional parts and supplies	\$
C. Installation, including cost to remove and dispose of old engine	\$
D. Scrappage/Remanufactured value	\$
E. Value of any other financial incentives (e.g. tax credits or other grants)	\$
F. Cost to the Applicant (F=A+B+C-D-E)*	\$

*You can request reimbursement of up to 50% of this cost for an equipment repower

Good Faith Commitment of Location of Equipment Activity

As an authorized official of _____ (print organization name) which owns the construction equipment described in this application, I attest that at least 70% of the equipment's operation will occur in North Carolina for the next 3 years.

Signature	Date
Printed/Typed Name	Title

Authorized Signature

Signature	Date
Printed Name	Title

E-mail/mail or fax completed applications to:

NCDENR - Division of Air Quality

Mobile Sources Branch

1641 MSC

Raleigh, NC 27899-1641

If you have questions contact:

Anne Galamb

919 715-6296

anne.galamb@ncdenr.gov

Fax: 919 733-1812

Project Schedule

Plan out your project. Make sure you allow for possible delays especially on things outside your control e.g. deliveries. Make sure you allow yourself time to gather invoices and fill out the final report. Don't use hard dates. Make everything relative to the contract start. E.g. 1 month after contract starts, etc. Feel free to use more space or a separate page as needed.

Task	When Complete
Contract begins	Spring/Summer 2011
Contract ends	

Seasonal Concerns

Are there months of the year when you cannot perform the work on the project because the equipment is in constant use? Please indicate these below with a "yes" or "no". "Yes" meaning you can work on the project and "no" meaning you cannot.

January	July
February	August
March	September
April	October
May	November
June	December



NC Department of Environment and Natural Resources - Division of Air Quality
2011 Diesel Emission Reduction Grant
Marine Vessel and Diesel Engine Information

Vessel Name			
Owner (s) Managing Owner Address			
Builder Address			
Year Built or Model Year			
Hull Identification Number (HIN) or Hull Number			
Vessel	Hull Material		
	Length		
	Beam		
	Displacement		
Description of Vessel Container, Ferry, Excursion, Commercial Fishing, Commercial Charter Fishing, Workboat, Pilot, Crew, Tow Boat, Tugboat			
Area of Usage % Usage per Area			
Fishing Permits	State and Federal		
State Registration Number			
Home Port			
OR			
USCG Documentation	Official Number		
	Hailing Port		
	Trade Indicator		



NC Department of Environment and Natural Resources

Division of Air Quality

**2011 Diesel Emission Reduction Grant
Marine Vessel and Diesel Engine Information**

Engine (s)	Propulsion / Auxillary	
# Engines	1 or 2	
Engine (s)	Manufacturer	
	Model Number	
	Model Year	
	Serial Number	
Number Cylinders	2, 4, 6, 8, 10, 12, 16	
Configuration	Inline or "V"	
Engine Cycle	Cycle (2 or 4)	
Horsepower (ea)	10- 5000 hp	
Engine (s)	Hours	
Exhaust System	Wet or Dry	
Fuel Type	Diesel, Gasoline, Biodiesel	
Fuel Usage	Gallons Per Year	
Engine (s) Operation	Hours/Year	
Estimated Engine Life Remaining	Years	
Marine Diesel Repower Vessel application should be accompanied by: * Catch records for past 3 years. * Copy of the owner's commercial fishing licence		* A clear photograph of the vessel-no faxed photos, please (this is optional). To obtain this catch records contact The Division of Marine Fisheries 252 808-8101

PROJECT SELECTION CRITERIA

- 1) **Amount of matching** or in-kind funds.
- 2) **Emissions Reductions or Quantitative Benefits:** DAQ will calculate emissions based on applicant provided information.
- 3) **Other Benefits:** e.g. health, less fuel used, etc.
- 4) **Permanence of Benefits from the Project.** How long or how much longer will this equipment funded last?
- 5) **Cost Effectiveness** (\$ per tons reduced.) - DAQ calculates based on applicant provided information.

PROJECT SELECTION CRITERIA...CONTINUED

- **6) Geographic Distribution** of projects throughout the State.
- 7) Number of Projects Selected or Amount of Funds Awarded per Applicant:** may be limited due to availability of funds.
- 8) Number of projects selected per sector** (rail, trucks, biodiesel) may be limited.
- 9) Other selection criteria** may be employed as necessary to select from the projects received.

GENERAL REQUIREMENTS OF PROJECT APPLICATIONS

- Applicants Must Comply with State Laws and Apply in Writing: Applicants must comply with all appropriate North Carolina State Laws and apply in writing to the North Carolina Department of Environment and Natural Resources, Division of Air Quality.
- Applicable Permits and Permissions: Applicable permits and permissions must be provided and are the responsibility of the applicant.
- Applications must be signed: This year some projects have applications that may be used to apply. If the general proposal format is used, the proposal is limited to 8 pages, with appendices limited to FOUR pages.

PROJECT SELECTION SCHEDULE

Proposal submittal deadline.....January 17, 2011

Committee review and project
consideration.....January-February 2011

Announcement of grant
award(s).....March 2011

Applicants contacted by e-mail for contract
informationApril 2011

Funds available after contract is in
placeJune - August 2011

What If My Project Is Selected?

What, Me Worry?



Post Selection

- Revised application if you are partially funded
- Two State forms must be completed, signed and notarized
- 2 Federal Forms must be signed
- Must register in NC e-procurement
- Must provide Federal tax identification number
- Must report quarterly on your progress until you are done and final invoice and report are submitted.
- Invoices must include proof that they were paid

For more information

About current and past grants and rebates:

<http://www.ncair.org>

919 715-6296

Anne.galamb@ncdenr.gov