



Mobile Source Emission Reduction Grant - Request for Proposals - Question and Answer Session

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Department of Environmental Quality



What to Expect Today

- Overview of Mobile Source Emission Reduction Grant program funded from Diesel Emissions Reduction Act (DERA) program
- Eligibility
- How to get access to the Grant Management System (GMS)
- Where to find information after this workshop
- Questions and answers

Next Webinar: How To Apply
January 10, 2024



First Things First

- This is a **reimbursement program** for diesel equipment upgrades or replacement
- There are **mandatory cost-shares** for almost all project types
- Existing diesel equipment must **scrapped**.
- You **MUST** scrap replaced equipment within 3 months of taking delivery of the new equipment.



Request for Proposals (RFP) Timeline

Milestone	Date
RFP open in DAQ Grants Management System	November 1, 2023
RFP closes in DAQ Grants Management System	February 2, 2024
DAQ evaluation of applications	February - March 2024
All applicants notified of their application status	April 2024
Awardee contracts processed	April - May 2024
All work completed	September 30, 2026
Invoices, Certificate of Engine/Chassis Destruction and Final Reports submitted to DAQ	September 30, 2026

**Over 1.1 Million in
anticipated available funds**



Who may apply?

- Any private or public sector entity stationed in North Carolina is eligible to apply.
- [Past DAQ Grant Awardees](#)

Vehicle/Engine/ Equipment Type	Description
School Buses	Includes diesel powered school buses of Type A, B, C and D. To be eligible as a school bus a vehicle should meet the definition
Transit Buses	Includes Class 5+ diesel powered medium-duty and heavy-duty transit buses.
Medium-duty or heavy-duty trucks	Includes diesel powered medium-duty and heavy-duty highway vehicles with gross vehicle weight rating (GVWR) as defined below: Class 5 (16,001 -19,500 lbs. GVWR); Class 6 (19,501 -26,000 lbs. GVWR); Class 7 (26,001 -33,000 lbs. GVWR); Class 8 (33,001 lbs. GVWR and over)
Marine Engines	Includes diesel powered Category 1, 2, and 3 marine engines and vessels.
Locomotives	Includes diesel powered line-haul, passenger, and switch engines and locomotives.
Nonroad engines, equipment or vehicles	Includes diesel powered engines, equipment and vehicles used in construction, handling of cargo (including at ports and airports), agriculture, mining, or energy production (including stationary generators and pumps).

Funding Levels

Eligible Technologies	DERA Funding Limits	Minimum Mandatory Cost-Share (Fleet Owner Contribution)
Drayage Truck Replacement	50%	50%
Vehicle or Equipment Replacement with EPA Certified Engine	25%	75%
Vehicle or Equipment Replacement with CARB Certified Low NOx Engine	35%	65%
Vehicle or Equipment Replacement with Zero-tailpipe Emission Power Source	45%	55%
Engine Replacement with EPA Certified Engine	40%	60%
Engine Replacement with CARB Certified Low NOx Engine	50%	50%
Engine Replacement with Zero-tailpipe Emission Power Source	60%	40%
EPA Certified Remanufacture Systems	100%	0%
EPA Verified Highway Idle Reduction Technologies when combined with new or previously installed exhaust after-treatment retrofit	100%	0%
EPA Verified Highway Idle Reduction Technologies without new exhaust after-treatment retrofit	25%	75%
EPA Verified Locomotive Idle Reduction Technologies	40%	60%
EPA Verified Marine Shore Connection Systems	25%	75%
EPA Verified Electrified Parking Space Technologies	30%	70%
EPA Verified Exhaust After-treatment Retrofits	100%	0%
EPA Verified Engine Upgrade Retrofits	100%	0%
EPA Verified Hybrid Retrofit Systems	60%	40%
EPA Verified Fuel and Additive Retrofits when combined with new retrofit, upgrade, or replacement	Cost differential between conventional diesel fuel	Cost of conventional diesel fuel
EPA Verified Aerodynamics and Low Rolling Resistance Tires when combined with new exhaust after-treatment retrofit	100%	0%
Alternative Fuel Conversion	40%	60%

Eligible Equipment

DERA Eligibility Tool



Important Criteria

- **Replacement vehicle/equipment must be of the same weight class of original vehicle/equipment.**
- **All vehicles and equipment must have at least **3 years** of useful life remaining.**
- **All original equipment or vehicles must be operational in the previous two years and the replacement equipment or vehicle must be operated at least 70% in North Carolina for the next 5 years.**



Important Criteria

- On-road vehicles must be Class 5 trucks or larger **DIESEL** powered.
- Horsepower increases for non-road equipment are limited to less than 40%.
- Original on-road vehicles must operate **7,000 miles per year** or more.
- Agricultural pumps must operate **250 hours per year** or more.
- Other non-road engines must operate **500 hours per year** or more.



Scrappage Requirements

- **“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 for all engines.**
- **If any eligible vehicle will be replaced as part of an eligible project, scrapped shall also include the disabling of the chassis by cutting the vehicle’s frame rails completely in half.**
- **You must scrap all replaced equipment with 3 months of taking delivery of new equipment.**



Destruction of Old Equipment



How to Apply

- You must have an NCID to request access to the Grants Management System (GMS).
- If you already have an NCID, skip to “Request Access”.
- Steps to apply:
 1. Submit a [Enterprise Business Services External Access Request Application](#) (select “NCDEQ Division of Air Quality” for the agency).
 2. Complete and submit NC Substitute W-9 and email to daq.msrb.ncdaqgrants@deq.nc.gov.
 3. You will receive a “Welcome to the DAQ Enterprise Business System” email when your access has been processed.
 4. Apply in [NC EBS Portal](#).

This can take up to 1 week or more to get processed.



Getting an NCID

- Setting up an individual NCID:

<https://ncid.nc.gov>.

- Instructions are found here: [How-to-Create-a-NC-ID.pdf](#)

- Your NCID username and password are your credentials for the GMS System.

NCID
NCID

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NCID Login

Forgot Username
Forgot Password
Unlock Account

Need Help? Register!

Privacy and Other Policies Contact Us

 **WARNING:** This is a government computer system, which may be accessed and used only for authorized business by authorized personnel. Unauthorized access or use of this computer system may subject violators to criminal, civil and/or administrative action. 

Acceptable NCID formats

- **NCIDs must use the following format or your request for access will be denied.**
 - **First name or initial**
 - **Middle initial (optional)**
 - **Last name**
 - **Number (if name is already in use)**

- **Example for Wile E. Coyote options for his NCID are:**
 - **Wileecoyote**
 - **Wilecoyote**
 - **Wilecoyote2**
 - **wcoyote**

NCIDs must not be a company or organization name.



DAQ Grant Management System (GMS)

- After setting up your NCID, complete and submit the [Enterprise Business Services External Request Application](#).
- Complete the North Carolina Substitute [W-9](#) Form for your agency and email it to daq.mscb.ncdaqgrants@deq.nc.gov.

Each organization is allowed up to 3 authorized users.

Once the authorization is processed, you will receive a "Welcome" email from NCDOT IT SAP Support Services.

Deadline to request access is January 19 to guarantee access by RFP closing

The screenshot shows the 'Enterprise Business Services (EBS) External Access Request Application' form. The form is titled 'User ID Information' and contains the following fields:

- *Agency: (Dropdown menu)
- If you already log into ebs.nc.gov (Enterprise Business Services), enter your current User ID: (Text input)
- *Last Name: (Text input)
- *First Name: (Text input)
- Middle Name: (Text input)
- *Organization Name (Legal Name of Entity - Registered with the NC Secretary of State): (Text input)
- Organization Name 2 (DBA): (Text input)
- *Organization Address: (Text input) with a note 'No P.O. Box..'
- *City: (Text input)
- *State (select from drop down): (Dropdown menu)
- *Zip Code: (Text input)
- *Phone: (Text input)
- *Email: (Text input)
- Comments: (Text area)
- Select Role(s) and/or Action(s): (Dropdown menu)
- Click the generate button to create a code: (Text input) with a 'Generate(Refresh)' button.
- *Copy or type the code in the box : (Text input)

A 'Submit' button is located at the bottom right of the form.

NC Office of the
State Controller
(IRS Form W-9 will not be
accepted in lieu of this form)

***Denotes a Required Field**

STATE OF NORTH CAROLINA SUBSTITUTE W-9 FORM Request for Taxpayer Identification Number



Identification	<p>*1. <input type="checkbox"/> Social Security Number (SSN), OR <input type="checkbox"/> Employer Identification Number (EIN), OR <input type="checkbox"/> Individual Taxpayer Identification Number (ITIN)</p> <p>*2. <input style="width: 100px; height: 20px;" type="text"/></p> <p style="text-align: center; color: red; font-weight: bold;">(PRESS THE TAB KEY TO ENTER EACH NUMBER)</p>	<p>Please select the appropriate Taxpayer Identification Number (EIN, SSN, or ITIN) type and enter your 9-digit ID number. The U.S. Taxpayer Identification Number is being requested per U.S. Tax Law. Failure to provide this information in a timely manner could prevent or delay payment to you or require The State of NC to withhold 24% for backup withholding tax.</p>
	<p>*4. Legal Name (as shown on your income tax return):</p> <input style="width: 100%; height: 20px;" type="text"/>	<p>3. Dunn & Bradstreet Universal Numbering System (DUNS) (see instructions)</p> <input style="width: 100%; height: 20px;" type="text"/> <p style="text-align: center; color: red; font-weight: bold;">(PRESS THE TAB KEY TO ENTER EACH NUMBER)</p>
	<p>5. Business Name/DBA/Disregarded Entity Name, if different from Legal Name:</p> <input style="width: 100%; height: 20px;" type="text"/>	
	Contact Information	
	<p>*6. Legal Address (DO NOT TYPE OR WRITE IN THIS FIELD)</p>	<p>7. Remittance Address (Location specifically used for payment that is different from Legal Address, if applicable)</p>
	<p>* Address Line 1:</p> <input style="width: 100%; height: 20px;" type="text"/>	<p>Address Line 1:</p> <input style="width: 100%; height: 20px;" type="text"/>



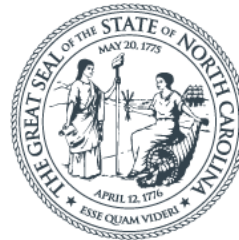
DAQ Grant Management System (GMS)

- Once you have received the “Welcome to the DAQ Enterprise Business System Portal” email, the DAQ Grant Management System (GMS) can be accessed at:

<https://www.ebs.nc.gov/irj/portal>

- Additional GMS information can be found here:
<https://deq.nc.gov/about/divisions/air-quality/motor-vehicles-and-air-quality/volkswagen-settlement/grants-management>

- [Downloadable GMS External User Manual](#)



**Enterprise
Business
Services**

User *

Password *

Passwords are case sensitive

[Login Help](#) * [Browser Support](#)



DAQ Training Library

The screenshot shows a web browser window displaying the SAP system home page for the North Carolina Department of Environmental Quality (DEQ). The browser title is "Home - [SAP] - Internet Explorer" and the address bar shows the URL: [https://qcr.ebs.nc.gov/grants\(bD1lbiZjPTYwMCZkPW1pbg=\)/default.htm](https://qcr.ebs.nc.gov/grants(bD1lbiZjPTYwMCZkPW1pbg=)/default.htm). The page header includes the DEQ logo, the text "Welcome Brian Phillips", and navigation options like "Personalize" and "Log Off". A search bar with "Saved Searches" is also present. The main content area is titled "Home" and contains several sections: "Alerts" (No result found), "Web Links" (with "DAQ Training Library" highlighted by a red box and a red arrow), and "Search" (listing various actions like "Create New Application", "View Applications", etc.). A sidebar on the left is titled "Grants Home" and contains a "Recent Items" list with entries like "3000169642 Engin...", "1000010635 Claim...", "2000045107 Level...", "1000010594 Level...", and "1000010592 Diesel...".



Required Application Attachments

- [NCDAQ Vehicle Spreadsheet](#)
- **Quotes**
 - **Should include itemized quotes for all equipment**
- **Pictures of original equipment, engine tags, and VINs**
- **Any other supporting documentation for application**
- **EV requests require extra attachments (next slide)**



Required Application Attachments: EV projects only

- **Acknowledgement of consultation with utility**
- **Quotes for infrastructure (if requesting in application)**
 - **Installation**
 - **Equipment**
- **Acknowledgement of workforce development**
- **Any other supporting documentation for application**



Applicant	Public Works
Program FY(s)	2023
Project Title	Refuse Hauler Replacement

INSTRUCTIONS: This Fleet Description should detail all vehicles and engines impacted under the project. The fields below align with EPA's Diesel Emission completed. This Fleet Description is broken into two sections: 1) Current Vehicle and Engine Information and 2) New Vehicle and Engine Upgrade Information data definitions on tab 6 (Data Dictionary) for additional guidance on each field.

Each vehicle/engine group column below can represent one or more similar pieces of equipment operating in the same fleet. You can copy and paste additional

Fleet Information		Example	Unit 1	Unit 2
CURRENT VEHICLE AND ENGINE INFORMATION				
Basic Fleet Information	Group Name:	Sample	Unit 1	
	Fleet Owner:	Organization Name	Public Works	
	Publicly or Privately Owned?:	Publicly	Publicly	
	Place of Performance			
	- State(s):	North Carolina	North Carolina	
	- County(s):	Wake	Wake	
	- City(s):	Raleigh	Raleigh	
	- Zip Code(s):	27610	27603; 27529	
	Equipment Type:	Onroad	Onroad	
	Target Fleet:	Transit Bus	Refuse Hauler	
Class (on-road vehicles, as defined in data dictionary):	Class 6	Class 8		
Vehicle or Engine Group Sector:	Municipal	Construction		
Vocation (on-highway, short-haul, and marine only):	Other	Other		
Current Vehicle Information	Vehicle Identification Number(s):	1234567891011	5VCDG6JF78H121212	
	Vehicle Make:	ABC 123	Autocar	
	Vehicle Model:	ABC Bus	WX64	
	Vehicle Model Year:	1995	2008	
Current Engine Information	Engine Serial Number(s):	4548154	46855888	
	Engine Make:	ABC	CUMMINS	
	Engine Model:	ABC	ISL345	
	Engine Model Year:	1995	2007	
	Tier 4 Standards (Tier 4 only):	N/A	N/A	
	Engine Horsepower:	660	300-350	
	Engine Family Name (if unregulated, then NA):	N/A	7CEXH0912XAJ	
Baseline Engine Fuel Type:	ULSD (diesel)	ULSD (diesel)		
Current Annual Vehicle Data	Annual Amount of Fuel Used (gallons/year per engine):	6000	8644	
	Annual Miles Traveled (miles per vehicle, on-highway only):	12000	25933	
	Annual Idling Hours (hours per engine, on-highway only):	1500	50	
	Remaining Life of Baseline Engine/Vehicle (years per engine; total # of years of engine life remaining at time of upgrade action must be > 3):	3	6	
NEW VEHICLE AND ENGINE UPGRADE INFORMATION				

Old equipment (replaced equipment)

Please fill out all fields you can. You must fill out all fields for **replaced** equipment for **new** equipment.

Notice the sheets are labeled by the project type:

1. On-Road
2. Off-Road
3. Marine
4. Locomotive
5. Infrastructure (should be filled out for any EV replacement requests with infrastructure)

You can upload attachments *at any time* during the application process.

New equipment (replacement equipment)

Please fill out all fields you can. You must fill out all fields for **replaced** equipment for **new** equipment.

The quotes should match the information found in this spreadsheet.

If you are requesting infrastructure for replacement equipment, the quotes should match for installation and equipment.

You can upload attachments *at any time* during the application process.

NEW VEHICLE AND ENGINE UPGRADE INFORMATION				
Upgrade Information	Year of Upgrade Action:	2024	2024	
	Upgrade Type:	Vehicle Replacement	Vehicle Replacement	
	Upgrade Specific:	Vehicle Replacement - All-Electric	Vehicle Replacement - CNG	
	Class (overoad vehicles, as defined in data dictionary):	Class 6	Class 8	
	VIN for New Vehicle(s)	TBD	TBD	
	Total Cost Per Unit (equipment plus labor):	\$ 175,000.00	\$ 328,265.02	\$
	Upgrade Equipment Cost only Per Unit:	\$ 150,000.00	\$ 328,265.02	
	Upgrade Labor Cost only Per Unit:	\$ 25,000.00	\$ -	
	Total Funds Requested:	\$ 50,000.00	\$ 40,000.00	
	Federal Cost Share Expended Per Unit (% of Total Cost per Unit):	29%	12%	
New Engine Information	New Engine Model Year:	2024	2020	
	Tier 4 Standards (Tier 4 only):	N/A	Final	
	New Engine Horsepower:	750	300-350	
	New Engine Family Name:	ABC	TBD	
	New Engine Fuel Type:	Electric	CNG (lbs)	
New Annual Vehicle Data	New Annual Idling Hours (hours per vehicle; on-highway only):	N/A	50	
	New Annual Fuel Volume (estimated gallons/year per engine):	6000	54,025 lbs	

Tips and Things to Know

- Increases in fleet size are not allowed.
- Replacement vehicle must be “like for like” with the original equipment.
- Budget information should be as accurate as possible.
- Partial funding will be used as appropriate in awarding projects.
- Essays will be used to assist in evaluating projects that score similarly to determine awardees.
- Applications must be submitted via the NCDAQ Grants Management System. Applications will not be accepted after 11:59PM EDT on February 2, 2024.
- Do not sign any agreements with vendors or start work until your contract is fully executed.
- Applications may be shared with other agencies with similar funding opportunities if project is not funded.
- You must log into GMS periodically or your account will be made inactive, and you may have to request access again.

APPLICATION AWARD IS NOT A FULLY EXECUTED CONTRACT



Project Scoring Criteria

Lifetime Emissions Reductions	35
Lifetime Cost Effectiveness	30
Co-Benefits	20
Environmental Justice	10
EPA Priority County*	5
Historically Under-Resourced County	5
Electric Project	5
Minority or Women-owned Business**	5
Goods Movement Facility**	5
Total Points Possible	120

* Cabarrus, Gaston, Iredell, Lincoln, Mecklenburg, Rowan, or Union

** You must indicate this in your application



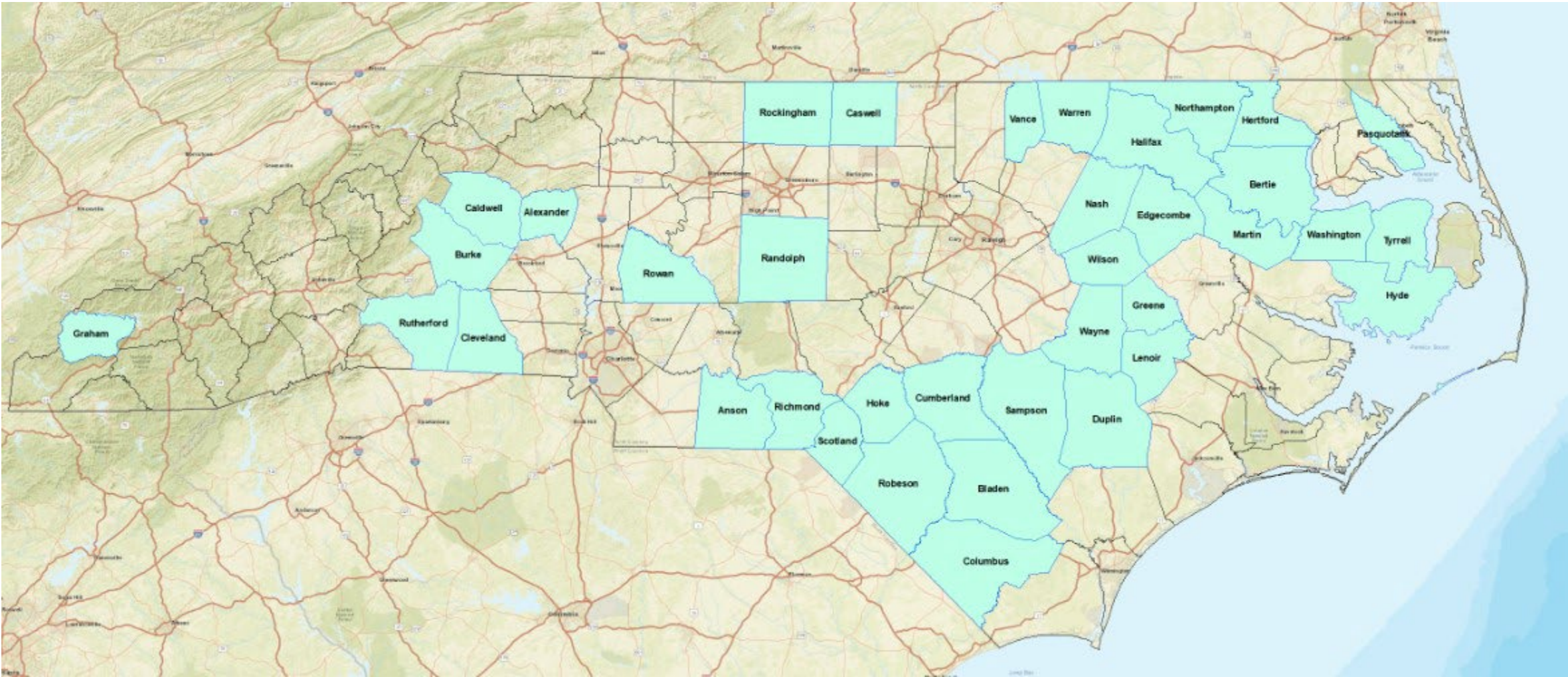
Environmental Justice (10 points)

The Environmental Protection Agency defines environmental justice (EJ) as “the fair treatment and meaningful involvement of all people regardless of race, color, national origin, or income, with respect to the development, implementation, and enforcement of environmental laws, regulations, and policies.” (US EPA). Historically, people of color and people of low-income, along with other vulnerable populations, have been disproportionately exposed to harmful pollutants.

To determine environmental justice (EJ) scores for the purpose of ranking and rating vehicles and projects, the following analysis was done at the block group level using the 2019 American Community Survey (ACS) five-year estimates. The ACS is a demographic survey conducted each year by the U.S Census Bureau to collect detailed demographic information. For this analysis, aggregated five-year data from the 2017 and 2019 surveys was used to increase reliability.



Historically Under-Resourced County Map



Historically Under-Resourced Counties

County		
Alexander	Greene	Rockingham
Anson	Halifax	Rowan
Bertie	Hertford	Rutherford
Bladen	Hoke	Sampson
Burke	Hyde	Scotland
Caldwell	Lenoir	Tyrrell
Caswell	Martin	Vance
Cleveland	Nash	Warren
Columbus	Northampton	Washington
Cumberland	Pasquotank	Wayne
Duplin	Randolph	Wilson
Edgecombe	Richmond	
Graham	Robeson	



A Few Helpful Hints

- **Apply early**
 - **If there are issues with your application, it can be returned for correction before the February 2, 2024, closing date.**
 - **We will not accept late applications.**
- **Contact us for questions well before the application closes for assistance.**



For Next Time....

For the “How to Apply” webinar on January 10, 2024

- **Have requested an NCID**
- **Have submitted a completed and signed NC Substitute W-9 form**
- **Have requested access to the GMS, and received “Welcome” email**

Gathered Application Materials needed to apply:

- **Fleet description datasheet**
- **Pictures of all equipment to be replaced**
- **Quotes for all new equipment in application**
- **For EV projects with infrastructure, you should have already contacted your utility company**

Where to get more information?

- Questions regarding the application can be directed to: daq.msccb.ncdaqgrants@deq.nc.gov
- [Downloadable GMS External User Manual](#)
- Questions regarding logging onto the system after access has been granted and/or error messages received during the application process can be directed to: EBSSupport@ncdot.gov



Subscribe to our Mobile Sources Email List!

If you are not currently on our mailing list and would like to receive email updates about DERA, please send an email with the word “Subscribe” in the subject line to daq.msrb.ncdaqgrants@deq.nc.gov.

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Useful Links

- **About the NC DERA Program:**
 - [NC DAQ DERA Page](#)
 - [DERA Eligibility Tool](#)
 - [RFP Guidance](#)
- **NC DAQ Grants Management System:**
 - [GMS Website](#)
 - [NC DAQ GMS](#)
 - [NC DAQ Users Guide](#)
- **Required Forms to Apply:**
 - [NCID Registration](#)
 - [Online GMS access form](#)
 - [NC W-9 form](#)
- **Past Webinar – How to Apply:**
 - [GMS Overview](#)



Questions

