



Clean Fuel Advanced Technology Funding (CFAT 2022)

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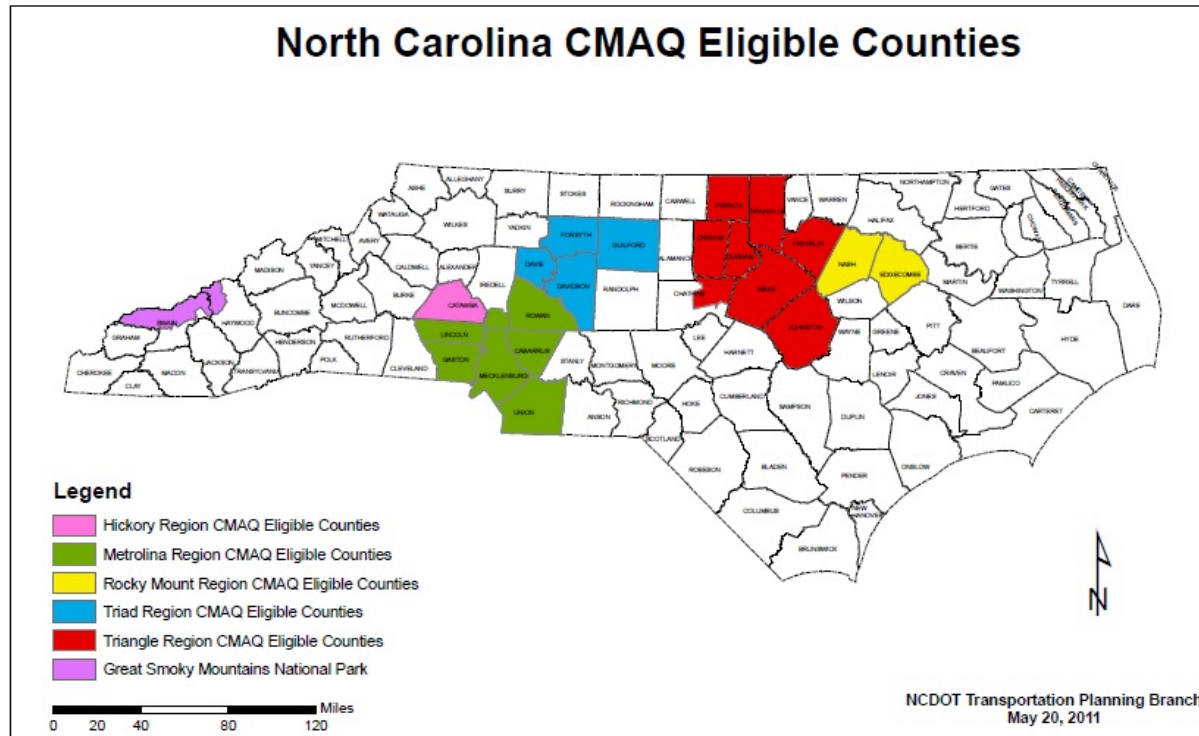
Clean Fuel Advanced Technology Project



- Funded through CMAQ from FHWA through NC DOT
- CMAQ implemented to support surface transportation projects & other related efforts that contribute air quality improvements and provide congestion relief
- Funded since 2006
- Application deadline: July 1, 2022
- Anticipated start and end dates: December 5, 2022 – September 30, 2024



CFAT 24 Eligible Counties Map



CFAT 24 Eligible Counties List

Cabarrus, Catawba, *Chatham, Davidson, Davie, Durham, Edgecombe, Forsyth, Franklin, Gaston, Granville, Guilford, *Haywood, *Iredell, Johnston, Lincoln, Mecklenburg, Nash, Orange, Person, Rowan, *Swain, Union, Wake

*Denotes partial county eligibility

All 100 counties are eligible for EV charging infrastructure, both Level 2 and DC Fast chargers.



CFAT RFP Schedule for Federal FY '22

~\$1.5M available for eligible projects

Money has been committed. Contract under final review at NCSU.

Project Funding Limits: Minimum \$5,000—Maximum \$300,000



Eligible Project Types

- **Alternative Fuel & Advanced Technology Vehicles (AFVs) purchases or leases** — new OEM dedicated and bi-fuel, NG & LPG vehicles, EV's, HEV's, PHEV's, and Hydrogen. E85 & diesel not eligible.
- **Alternative Fuel & Advanced Technology Vehicle (AFV) Conversions**—new or existing vehicles to dedicated or bi-fuel CNG, LNG or LPG, electric hybridization (w/ or w/o plug-in), Hydrogen and hydraulic hybridization.
- **Mobile Idle Reduction Technologies**--advanced batteries or other technologies to reduce idling by powering on-board equipment while an on-road vehicle is stopped; direct-fired heaters; auxiliary power units (APUs); and automatic engine idle reduction systems.
- **Diesel Retrofits**—EPA verified or EPA/CARB certified.
- **Alternative Fuel Infrastructure** —EVSE and CNG eligible in all 100 NC counties. Both DC Fast and Level 2 chargers. (Additional paperwork required with ground disturbing activity.)



Buy America Provisions

All projects must be compliant with FHWA Buy America guidance.

Executive Order of January 25, 2021.

<https://www.federalregister.gov/documents/2021/01/28/2021-02038/ensuring-the-future-is-made-in-all-of-america-by-all-of-americas-workers>

April 18, 2022 implementation guidance memo from White House OMB:

<https://www.whitehouse.gov/wp-content/uploads/2022/04/M-22-11.pdf>

No later than May 14, 2022 FHWA was to issue new guidance on compliance with this executive order and the new IIJA and “Build America, Buy America Act”. **This guidance should be sought and consulted.**



Recently Eligible Projects

- Propane conversion kits and installation
- XLHybrid electric hybrid (plug-in and non-plug-in) conversion kits and installations
- Viatec ePTO system installations
- 12 volt solar on-board
- Zero Motorcycle purchases
- AFV leases — 2 year term, lease agreement cannot lead to vehicle purchase
- BEAM solar powered EV chargers
- All other projects from eligible categories with FHWA Buy America Certification
- EV chargers (additional paperwork required with ground disturbing activity)
 - Historic district or National Historic Landmark?
 - Endangered Species?



Procurement Guidelines

All projects must demonstrate open and competitive procurement process:

In accordance with the 2 CFR 200 and the exemptions obtained by the US Department of Transportation, codified at 2 CFR 1201, the Subrecipient shall follow a competitive procurement process similar to the state regulations for procuring goods and services. When procuring property and services under a Federal award, a state must follow the same policies and procedures it uses for procurements from its non-Federal funds. The state will comply with § 200.322 Procurement of recovered materials and ensure that every purchase order or other contract includes any clauses required by section § 200.326 Contract provisions. All other non-Federal entities, including subrecipients of a state, will follow §§ 200.318 General procurement standards through 200.326 Contract provisions. To be eligible for funding, an applicant organization must submit their procurement policies or a description of their procurement process demonstrating a transparent, open and competitive procurement process with all applications.

Link to 2 CFR 200 and sub-paragraphs (318 through 326 included):

<https://www.gpo.gov/fdsys/granule/CFR-2014-title2-vol1/CFR-2014-title2-vol1-sec200-320>

NC Waiver of competition requirement:

<https://connect.ncdot.gov/business/Purchasing/Pages/PurchasingManual.aspx?Title=Waiver%20of%20Competition>



CFAT Eligible Project Types/Guidelines

High Level Guidelines:

- Minimum project award amount \$5,000, max project award \$300,000
- Reimbursement type grant
- Must be commercially proven and available, not research or prototype
- All alternative fuel vehicles and up-fits must be CARB/EPA certified
- Applicants must provide a minimum cost share of 20% to 24% of total project costs. Your cost share will be shown in your Budget spreadsheet.
- In other words, all projects are funded between 76% and 80% of total costs incurred by grantee (including NCSU indirect costs on first \$25k & applicant cost share)
 - Example: Hybrid conversion kit installed costs \$18,000. Applicant's min cost share is \$4,320 with grant request of \$13,680 for \$18k in total costs incurred by grantee.
 - Example: LPG conversion kit costs \$6,000 each installed for 5 vehicles, \$30k total costs incurred by grantee. Applicant's min cost share is \$7,200 with grant request of \$22,800.



CFAT Eligible Project Types/Guidelines

Alt Fuel Vehicle Guidelines:

- Alt fuel vehicle leases and purchases are funded between 20% and 24% of the plus-cost of the project (subject to the same formula as just described).
- Applicant's cost share will be indicated in the Excel budget template spreadsheet.
 - Example: Base price of Suzuki dual sport motorcycle costs \$7,000. Zero Motorcycle costs \$21,000. Plus-cost is \$14,000, so applicant's min cost share is \$3,360 on \$14k project (\$24%).
 - Example: Base lease price of conventional compact car costs \$40,000, and lump-sum lease cost of a comparable EV is plus \$10,000, applicant's minimum cost share is \$2,400 with \$8,600 grant request, (24%).
 - Example: Proposed project of five (5) EVs costs \$50,000 more than the five conventional vehicles, then applicant's minimum cost share is \$11,000 with \$39,000 grant request, (22%).
 - Example: Proposed electric bus and charger is \$300,000 more than diesel bus. Applicant's minimum cost share is \$61,000 with \$239,000 grant request, (20.33%).



CFAT Eligible Project Types/Guidelines

High Level Guidelines:

- Projects must operate in an eligible county or demonstrate emissions/air quality impact in an eligible county (EV chargers = 100 counties)
- For situations where projects operate partially in an eligible county funding levels will be pro-rated based % operated in eligible county
 - Example: 50% operation in eligible county would be eligible for 40% plus cost funding (0.50 x 0.80)
- System/vehicle final assembly in US, part of Buy America compliance



Project Evaluation/Selection Criteria

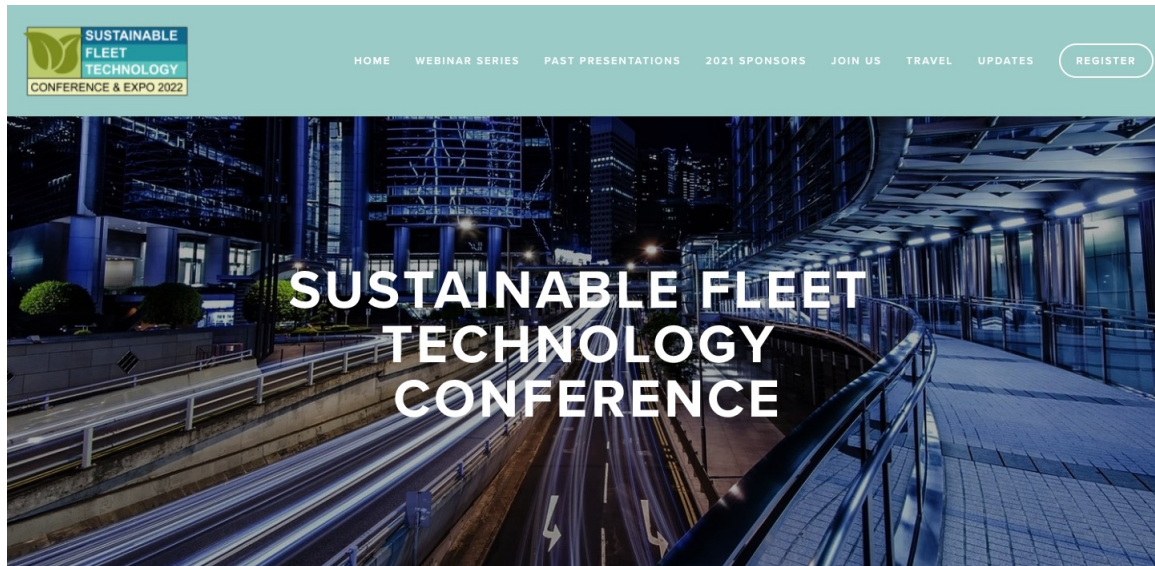
- **Cost versus regulated emission reductions**—emissions reduction/\$
- **Cost-share contribution**—higher than 20%-24% cost share may increase likelihood of selection
- **Project likelihood of success/risk**—cannot reallocate, need to be ready to go, must be committed
- **Public awareness/education**—activities that will generate awareness increase likelihood expanded clean transportation technology adoption
- **Impact**—maximize emissions reductions
- **Project diversity**—location and technology type

- **Deadline for applications: July 1, 2022.**



Project Partners





**SAVE THE DATE: August 30- Sept 1, 2022
Durham Convention Center, Durham NC**

SUSTAINABLEFLEETEXPO.COM



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