Overview of the NC CMAQ Program

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Transportation Planning Division

November 16, 2021
What is the CMAQ Program?

- Congestion Mitigation & Air Quality Improvement Program
- Federal-aid program
- Funds transportation projects/programs to improve air quality & reduce congestion
- Focuses on reduction of ozone ($O_3$), carbon monoxide (CO) and particulate matter ($PM_{2.5}$) emissions
- NCDOT receives funding and passes it through to eligible areas
What areas are eligible?

- Areas that are currently OR previously nonattainment or maintenance for $O_3$, CO or PM
What project types are eligible?

- Diesel engine retrofits
- Idle reduction
- Congestion reduction & traffic flow improvements
- Freight & intermodal projects
- Transportation control measures
- Transit improvements
- Bicycle & pedestrian improvements
- Travel demand management
- Public education & outreach
- Transportation management associations
- Carpooling & vanpooling
- Car-sharing
- Extreme low temperature cold start programs
- Training
- Inspection & maintenance programs
- Innovative projects
- Alternative fuels & vehicles
What project types are eligible?

- **Congestion reduction / traffic flow improvements**
  - Traditional improvements
    - Roundabouts
    - HOV lanes
    - Left-turn lanes or other managed lanes
  - ITS improvements
    - Traffic signal system synchronization
    - Traffic management
    - Traveler information systems
  - Value/congestion pricing
    - HOT lanes
    - Variably tolled express lanes
What project types are eligible?

• Transit improvements
  – New transit facilities associated with new or enhanced services
  – Rehabilitation of existing facilities in some cases
  – New transit vehicles (bus, rail or van) to expand fleet or replace existing vehicles
  – Certified diesel engine retrofits
  – Operating assistance for new or expanded transit service
    • Fuel is an eligible expense for these particular projects
  – Transit fare subsidies
What project types are eligible?

• Bicycle & pedestrian improvements
  – Constructing *non-recreational* bike or pedestrian paths, bike racks, support facilities
  – Bike share capital costs (docks, equipment, *not* operations)
  – Outreach related to safe bicycle usage

• Travel demand management
  – Shuttle services
  – Guaranteed ride home programs
  – Marketing & outreach
What project types are eligible?

• Carpooling & vanpooling
  – Marketing for existing, expanded or new activities
    • This may be funded indefinitely
  – Vanpool vehicle purchases or leases
    • Limited to 5 years operating costs

• Car-sharing

• Alternative fuels & vehicles
  – Incremental cost of AFV
  – Costs for alternative fuels as part of approved transit operating support
How much funding is available?

- NC funding amount is established in Federal transportation legislation
  - FAST Act set up funding through FFY 2020
  - NCDOT establishes a CMAQ target for future years based on past funding

- NC funding is broken out into two categories:
  - MPO/RPO Allocation
  - NCDOT Allocation
# NC CMAQ Project Categories

<table>
<thead>
<tr>
<th>Statewide CMAQ</th>
<th>Subregional CMAQ</th>
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<tbody>
<tr>
<td>45% of NC funding</td>
<td>55% of NC funding, further broken down by MPO/RPO areas</td>
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<tr>
<td>Projects selected through competitive process by IRC. Includes NCDOT sponsored projects as well as external applicants</td>
<td>Projects proposed &amp; administered by Local Program Sponsors &amp; submitted by MPO/RPO</td>
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<tr>
<td>Must be located in eligible county(ies)</td>
<td>Must be located in eligible counties within MPO/RPO</td>
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<tr>
<td>Matching funds provided by project sponsor</td>
<td>Local Program Sponsor provides matching funds</td>
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<td>Must be at least $100,000 in total funding</td>
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# NC CMAQ Project Examples

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<tr>
<th>NCDOT Allocation</th>
<th>MPO/RPO Allocation</th>
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<tbody>
<tr>
<td>I-40/I-85 ITS Implementation (NCDOT, Guilford)</td>
<td>I-40 Business Multiuse Path (City of Winston-Salem)</td>
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<tr>
<td>Clean Fuels Advance Technologies Program (NC Clean Energy Technology Center/NCSU)</td>
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<td>ITS Implementation: Triad to Triangle (Burlington area)</td>
<td>Passenger Rail Promotion in the Triangle, Triad &amp; Charlotte (TJCOG)</td>
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<td>Piedmont Rail Service Marketing Campaign (NCDOT Rail Division)</td>
<td>Peace Haven Road Sidewalk Improvement (Village of Clemmons)</td>
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<td>Expanded Transit Service (WS Transit Authority)</td>
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CMAQ Applications

• All CMAQ proposals require an application

• Applications must include emissions reductions calculations

• Cost estimates should reflect anticipated inflation compounded annually at 5% from the current calendar year and any expected NCDOT charges.

• All applications are reviewed by the Interagency Review Committee (IRC) for CMAQ eligibility
  – IRT: NCDOT TPD, Divisions; FHWA; FTA; EPA; NCDAQ
Questions or Comments?

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  919-707-0970

• NCDOT CMAQ Project Website
  https://connect.ncdot.gov/projects/planning/Pages/CongestionMitigationAirQualityNC.aspx