



NORTH CAROLINA
Department of Transportation

North Carolina Clean Transportation Plan

Lunch and Learn Webinar

May 4, 2023

Connecting people, products and places safely and efficiently with customer focus, accountability and environmental sensitivity to enhance the economy and vitality of North Carolina

Agenda

- Background
- Clean Transportation Plan
- Key Recommendations
- Next Steps
- Funding Opportunities
- Q&A

Origins

2018



E.O. 80

Reduce economy wide emissions by **40% below 2005** levels by 2025

Increase total number of registered ZEVs to at least **80,000 by 2025**

Reduce energy consumption in state-owned buildings by **40% below 2002-2003 levels**

2022



E.O. 246

Reduce economy wide emissions by **50% below 2005** levels by 2030 and achieve net-zero emissions no later than 2050

Increase total number of registered ZEVs to at least **1.25 million by 2030**

Increase the sales of passenger ZEVs so that **50% of in-state sales** are zero emission by 2030

2022



E.O. 271

Propose a NC Advance Clean Truck rule by **May 2023**

Develop and prioritize statewide complementary strategies

Complete a **ZEV infrastructure needs assessment**

The Clean Transportation Plan



ADVANCE

Created to advance Governor Roy Cooper's **E.O. 246 goals**



GUIDE

Acts as a roadmap with **strategies** and **actions** to guide continued activities that will achieve an equitable clean transportation system



COORDINATE

Serves as a coordinated strategy co-created with a variety of stakeholders

Project Timeline

January 7, 2022
E.O. 246 Signed

Apr 2022
Public Info
Session #1

Jun 2022
Public Info
Session #2

Dec 2022
Public Info
Session #3

Feb 2023
Public Info
Session #4

April 7, 2023
Final Report

Mar 2022
Kick-off with
Advisory
Committee

Apr - Oct 2022
Work Groups
meet to
contribute ideas
for NCCTP (6)

Nov 2022
Equity and
Governance
Subgroup
Meetings

Feb 2023
Last Advisory
Committee
Meeting (9)

Mar 2023
Public Comment
Period

NCCTP Partners

Clean transportation practices and technologies change rapidly. To understand this, the NCCTP collaborated with a diverse group with a wide range of interests.



Work Group Topic Areas



Light Duty ZEV

Focus on light-duty vehicle **transition**, vehicle **availability**, **incentives**, and **affordability**



Medium/ Heavy-Duty ZEV

Builds off the **multistate M/HD MOU**



Fleet Transition

Includes **public** entities, **private** entities, and **school** buses



Vehicle Miles Traveled

Builds off existing **VMT Task Force** and includes **non-vehicular** **modes**



Infrastructure

Includes **charging** infrastructure, **alternative fuel** infrastructure, and identifying **gaps**

Engagement



30
Meetings



220+
Participants



3,300+
Ideas



Focus Areas

Governance

Governance activities include guidance that could occur at any level of government (local, regional, state or federal) including legislation, policy, codes, ordinances and mechanisms that promote equitable outcomes.

Communications and Engagement

Methods to increase equitable engagement and empower public, private and non-profit effectiveness as well as methods to directly engage and involve stakeholders, the general public and traditionally underserved demographic cohorts.

Partnerships

Bringing government, industry, advocates and the public together to advance clean transportation solutions.

Infrastructure

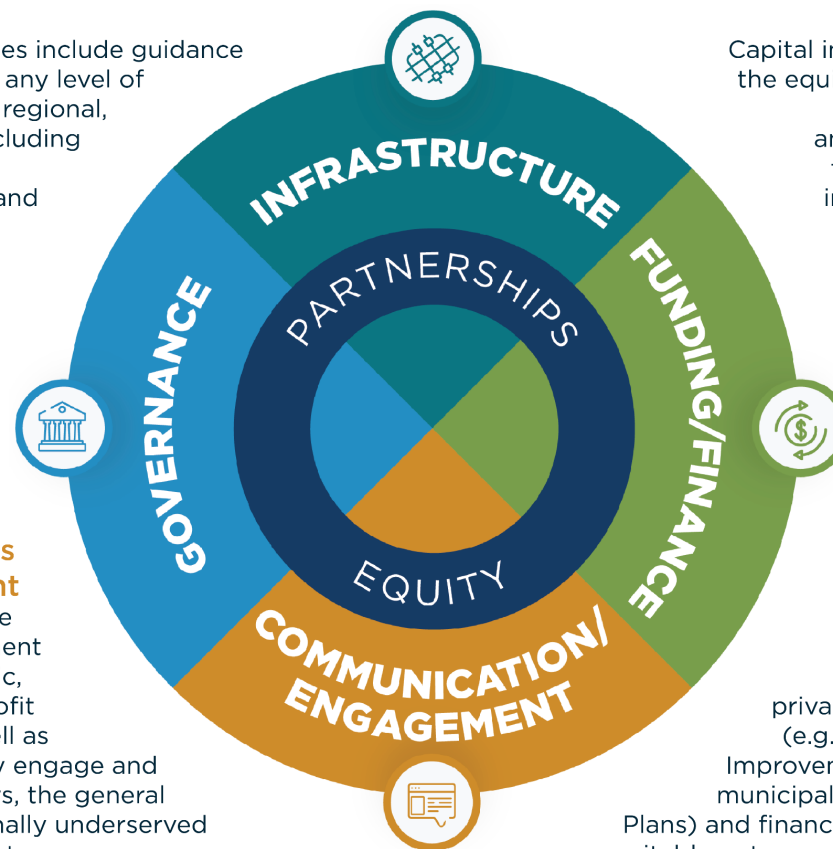
Capital investment resulting in the equitable implementation of increased capacity and connectivity of our transportation system including EV charging, modernization of the electric grid, active transportation and transit supportive infrastructure.

Funding and Finance

These programs include financial resources (public and private), funding programs (e.g., State Transportation Improvement Program, grants, municipal Capital Improvement Plans) and financing tools that support equitable outcomes and implementation.

Equity

Improving access to clean transportation and equitable outcomes for all with a focus on traditionally underserved populations.



Key Recommendations



Focus Area



Timeframe



Importance



State Action



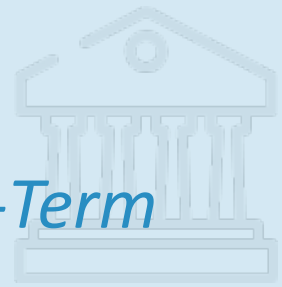
Electric Bus



Supporting
Strategies

Governance Activity

Timeframe: *Near-Term*



Create a dedicated clean transportation team

State Action

N.C. Dept of Transportation should establish a **Clean Transportation Team** to:

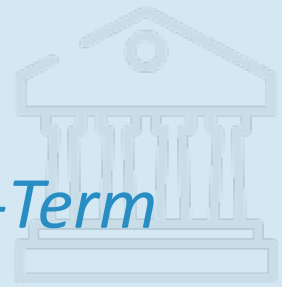
- Advance the **implementation** of the NCCTP
- Track and communicate implementation of the NCCTP objectives
- Apply for and support disbursement of applicable **federal grant programs**
- Convene and facilitate the **Clean Transportation Interagency Task Force**
- Convene and **support public stakeholder work groups**
- Serve as a **conduit** between work groups and Interagency Task Force

Supporting Strategy

The new Clean Transportation Team will lead, support or partner in the remaining key recommendations as appropriate.

Governance Activity

Timeframe: *Near-Term*



Align statewide policy through a Clean Transportation Interagency Task Force

State Action

N.C. Dept of Transportation will convene a **Clean Transportation Interagency Task Force** comprised of representatives from the Governor's Office, N.C. Dept of Environmental Quality, N.C. Dept of Commerce, N.C. Dept of Health and Human Services, N.C. Dept of Administration and other organizations as appropriate, to:

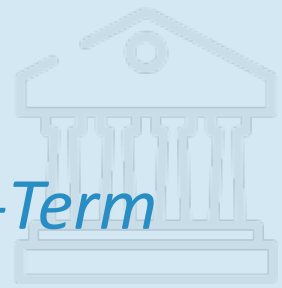
1. Clarify **responsibilities**, as well as **resources** and **coordination** needs to implement NCCTP strategies
2. Encourage agencies to **align related policies**
3. Remove barriers to implementation of the NCCTP recommendations

The task force will support the Clean Transportation Team's efforts to implement key recommendations, as appropriate, and will:

- Promote efforts to **identify and support traditionally underserved communities** and **ensure their inclusion** in clean transportation opportunities
- Continue **modernization of procurement procedures** and support state efforts to transition to ZEVs, such as the school bus replacement process and the N.C. Dept of Administration's efforts to **transition the state motor fleet to ZEVs**
- Review existing policies to **identify potential conflicts and opportunities**
- Anticipate emerging needs and recommend **new policies** to achieve statewide goals and equitable outcomes

Governance Activity

Timeframe: *Near- to Mid-Term*



Increase equitable outcomes in transportation planning projects

State Action

N.C. Dept of Transportation and the Clean Transportation Interagency Task Force will work to **enhance existing environmental justice efforts** and **promote equitable outcomes** by doing the following:

- Involve **environmental justice partners** to inform implementation of the NCCTP
- Identify **equity metrics** to incorporate into projects and promote accountability. This includes metrics for 1) target population identification, 2) investment decision-making and 3) program impact assessment

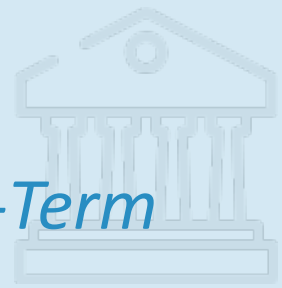
Supporting Strategy

Supporting partners will be asked to:

- Assist with creating **new** engagement and decision-making processes
- Partner with community-based organizations (CBOs)
- Partner with healthcare, economic development and workforce training institutions to **align initiatives**
- Work with communities to **listen to and address concerns** with NCCTP-related investments
- Explore the creation of **zero-emission delivery zones**

Governance Activity

Timeframe: *Near- to Mid-Term*



Ensure access and affordability to clean transportation

State Action

NCDOT will develop policies and programs that promote **access and affordability** to clean transportation options and will **prioritize infrastructure investments** for traditionally underserved communities.

- Address **Justice40* targets** and include access and affordability into federal procurement processes
- Incorporate access to and affordability of charging and fueling infrastructure for ZEVs (**E.O. 271**)
- Pursue competitive **grant resources** under the “Grants for Charging and Fueling Infrastructure” federal grant program
- Provide **technical assistance and partnership to businesses and small fleet owners** to assist the transition to zero-emission vehicles (ZEV)

Supporting Strategy

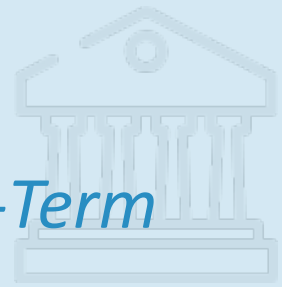
The Clean Transportation Team and NCCTP Work Groups will continue researching ways to:

- Create **incentives and advantages** for clean transportation projects proposed in traditionally underserved communities
- Deploy **rebates, incentives or other support** for traditionally underserved populations
- Provide **technical support for local communities and employers** to secure grants and funding to support clean transportation advancements

**The Justice40 Initiative is a government-wide initiative to ensure 40% of program/project benefits reach traditionally underserved communities as determined by the Justice40 census tract*

Governance Activity

Timeframe: *Near-Term*



Evaluate and update project prioritization programs

State Action

NCDOT will bring opportunities identified in the NCCTP to the existing Strategic Prioritization Office (SPOT) work group for consideration in the project evaluation process and engage with the N.C. General Assembly as appropriate.

- Review best practices for how **greenhouse gas (GHG) emission evaluations** are used in prioritization processes
- Evaluate how **Regional** and **Division prioritization processes** can improve equity, VMT per capita reduction, and health impacts
- Research project evaluation and funding prioritization programs
- Research the **Strategic Transportation Investments (STI) Law** normalization process to evaluate the benefits and program delivery requirements of providing a **higher** percentage of funding for **non-highway** projects that meet transportation needs and promote clean transportation strategies

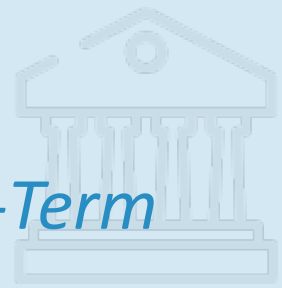
Supporting Strategy

The NCCTP work groups will continue researching the best ways to:

- Review land use policies to **support multimodal travel** modes
- Remove barriers to funding **standalone multimodal projects** and advocate for legislative action

Governance Activity

Timeframe: *Near- to Mid-Term*



Partner with utilities to promote clean transportation

State Action

The Interagency Task Force will partner with **electric utilities** to promote **clean energy and clean transportation** options.

- Provide **updates to N.C. Utilities Commission (NCUC)** regarding implementation of NCCTP and facilitate ongoing coordination between NCUC and utilities
- Partner with **electric utilities** to encourage statewide **access** to—and **funding** for—clean energy and clean transportation infrastructure

Supporting Strategy

Create **best practices and updated policies** to facilitate, expedite, and standardize clean transportation and utility-related infrastructure:

- Develop a clearinghouse of **best practices and resources**
- Work with the energy sector to participate in **strategy development** and **power requirements**
- Collaborate with the energy sector on transportation electrification strategy development
- Work with the North Carolina Building Code Council to **establish building codes** that support deployment
- **Expand** existing utility programs that promote the growth of **charging infrastructure**
- Enhance **energy storing infrastructure** to support electrification
- Identify specific needs and opportunities to **expand charging infrastructure for medium- and heavy-duty** vehicles

Funding and Finance Activity

Timeframe: *Near-Term*



Maximize existing funding to support clean transportation outcomes

State Action

NC DOT and NC DEQ will evaluate **current funding programs** to **maximize funding potential** to support the goals of Executive Orders 80, 246 and 271.

- Prioritize **funding incentives** and **advantages** for clean transportation projects
- Work with Interagency Task Force and other stakeholders to **notify traditionally underserved communities** of **funding opportunities**
- Prioritize **investments in electric vehicles (EVs) and supportive infrastructure** for discretionary funding opportunities
- Explore **investments in infrastructure** for medium- and heavy-duty vehicles
- Incorporate strong requirements for workforce development and Justice40 into application process for federal programs

Supporting Strategy

- Provide **technical assistance for traditionally underserved communities** to navigate the funding application process and secure funding

Funding and Finance Activity

Timeframe: *Near-Term*



Evaluate new funding that advances clean transportation outcomes

State Action

NC DOT and Clean Transportation Interagency Task Force will evaluate applicable federal funding opportunities under the **Inflation Reduction Act (IRA)** and **Infrastructure Investment and Jobs Act (IIJA)** to further NCCTP strategies.

- Prioritize and pursue funding opportunities
- Work with the Office of State Budget and Management (OSBM) and Governor's Office to **track and pursue funding opportunities**
- Evaluate **discretionary funding opportunities** to advance priorities identified in the NCCTP
- Work with partners to provide **technical support** to small businesses, local governments and fleet owners

Supporting Strategy

- Partner with **green banks** and other **financial institutions** to support implementation of NCCTP priorities
- Identify **effective funding strategies** to **promote small and disadvantaged business** electrification
- Identify financial incentive options for **leasing or buying new or used** clean transportation technology and infrastructure
- Pursue financial policies that support **removing high-emitting, older vehicles** from the road
- Develop incentive programs for developments or projects that **support the use of non-gas vehicle travel**
- Provide technical support to local communities and employers to secure grants
- Identify funding for agencies to hire and retain employees to administer clean transportation and related funds

Infrastructure Activity

Timeframe: *Near- to Mid-Term*

Evaluate and deploy clean transportation infrastructure to support all types of fleet vehicles and applications

State Action

NCDOT is developing a **zero-emission vehicle (ZEV) infrastructure needs assessment** as part of E.O. 271. This assessment will evaluate the **charging and fueling needs** to support the goals of E.O. 271 and the achievement of at least 1.25 million registered ZEVs in NC as called for in E.O. 246.

- Evaluate the **number, type, distribution, and cost of chargers and other fueling stations** needed to achieve North Carolina's ZEV goals
- Identify the greatest opportunities to expand the charging network in traditionally underserved communities
- Consider infrastructure needs of **larger vehicles**
- Evaluate infrastructure needs for current and planned park and ride facilities

Supporting Strategy

- Consider infrastructure needs of **residents in multi-unit dwellings** and for **consumers lacking off-street parking**
- Create a process for continued statewide planning of clean vehicle charging and fueling infrastructure
- Fund, prioritize and support the transition of **school and transit bus fleets** and support infrastructure to clean transportation alternatives

Infrastructure Activity

Timeframe: *Near- to Mid-Term*

Expand transportation demand management strategies

State Action

NCDOT should support and promote the transportation demand management programs outlined in the **vehicle miles traveled (VMT) reduction toolkit**, including:

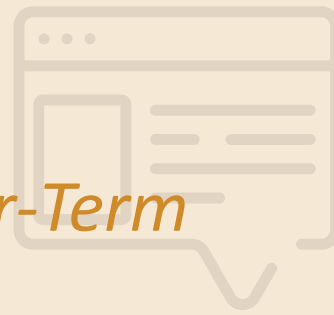
- Expand infrastructure for **non-motorized mobility, rail and public transit**
- Increase access to broadband to **facilitate working from home and other travel choices** (including support from the NC Dig Once Policy)
- Invest in charging infrastructure for current and planned park and ride facilities
- Implement planned **complete streets elements**
- Incentivize state employees using **VMT-reducing modes** of travel

Supporting Strategy

- Improve quality of crash data and exposure data for rural and urban contexts

Communication and Engagement Activity

Timeframe: *Near-Term*



Establish a coordinated clean transportation communication strategy

State Action

NCDOT and the Clean Transportation Interagency Task Force will seek dedicated funding opportunities to support a **coordinated communication strategy**. This strategy will include:

- Identifying resources, staff and partnerships to develop and implement an **education and awareness campaign**
- Developing **tailored and accessible messaging** for traditionally underserved communities
- Coordinating with each state agency to **include clean transportation initiatives** within their **annual public involvement plans**
- Conduct workshops in coordination with local leaders
- Develop tailored and accessible messaging

Supporting Strategy

- Develop **training materials** to further **educate and engage** stakeholders
- Develop **publicly available tools and dashboards** that improve transparency and access to information
- Work with non-profit advocacy groups to **connect clean transportation messaging and resources** with a diversity of demographic cohorts
- Promote and provide outreach for **electric vehicle (EV) demonstrations** and **promotional events**
- Coordinate with **MPOs** and **RPOs** on local outreach to community members
- Ensure equitable access to transportation events and public participation opportunities

Maintaining Momentum

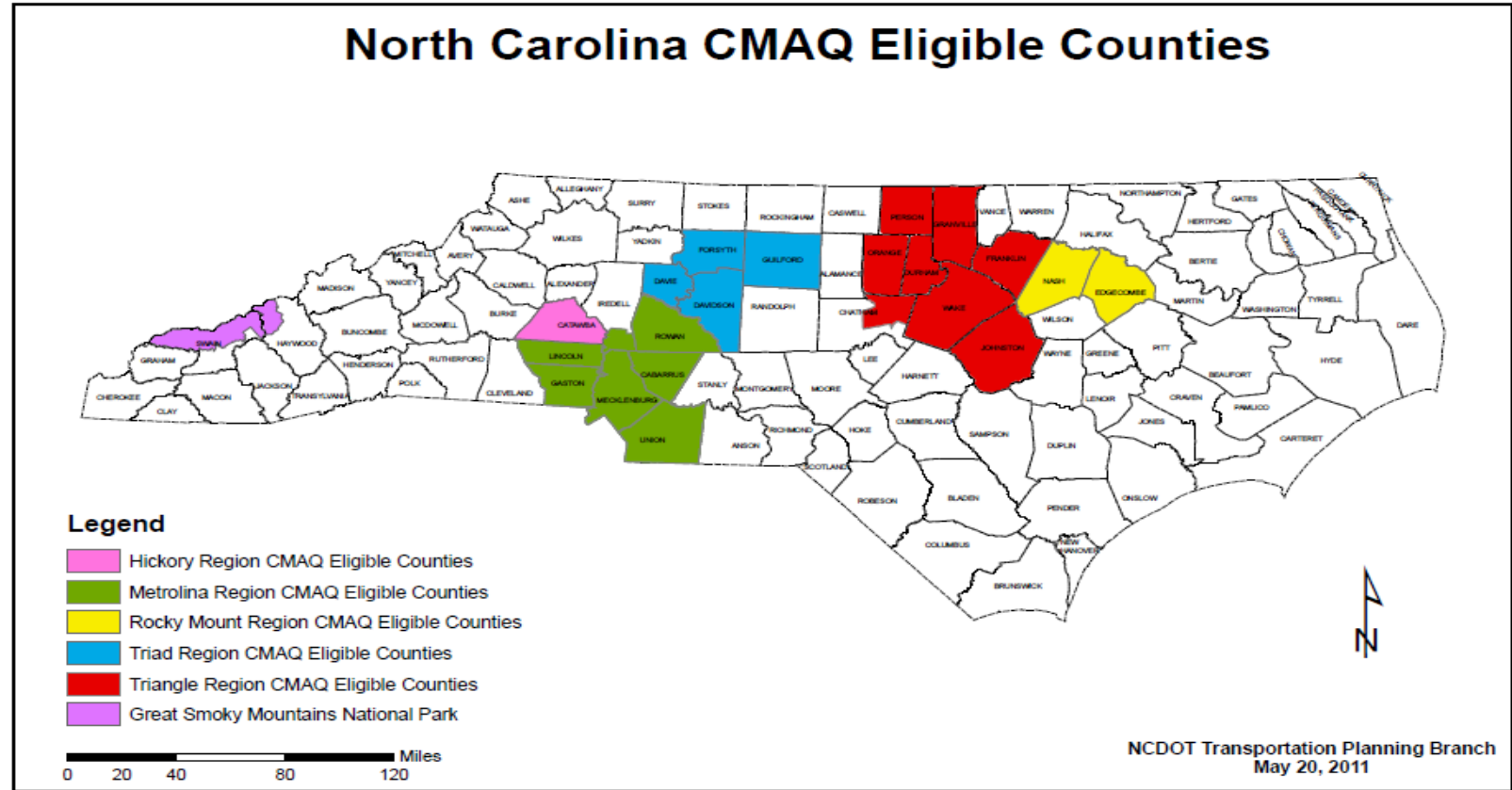
The NCCTP work groups will transition their efforts beyond the plan's completion to become standing groups that will continue to advance the identified actions and strategies, while supporting the state to progress the key recommendations. The continuation of the work groups will be guided by the work group plans and supported by the NCDOT Clean Transportation Team.



CMAQ Program Overview

The Congestion Mitigation Air Quality funds transportation projects that improve air quality and reduce congestion with a focus on ozone (O₃), carbon monoxide (CO) and particulate matter (PM 2.5) emissions

- NC receives ~\$50 million/year
 - \$22 million statewide
 - \$27 direct allocation to POs
- Common project types:
 - Transit
 - Bike/ped
 - Intersection Improvements
 - EVSE/ Alt Fuel Vehicles
 - Education/Outreach



Carbon Reduction Program Overview

The Infrastructure Investment Jobs Act also known as the Bipartisan Infrastructure Law (BIL) establishes the Carbon Reduction Program (CRP)

- States to develop **Carbon Reduction Strategies**
- **\$6.4 Billion** in formula funding for Fiscal Years 2022 through Fiscal Years 2026
- Funding for **projects to support transportation emissions reductions (GHGs)**
- **CRP in NC will support E.O.s and the NC CTP**



**Transportation Emissions* means carbon dioxide emissions from on-road highway sources of those emissions within a State (23 U.S.C. 175(a)(2)).

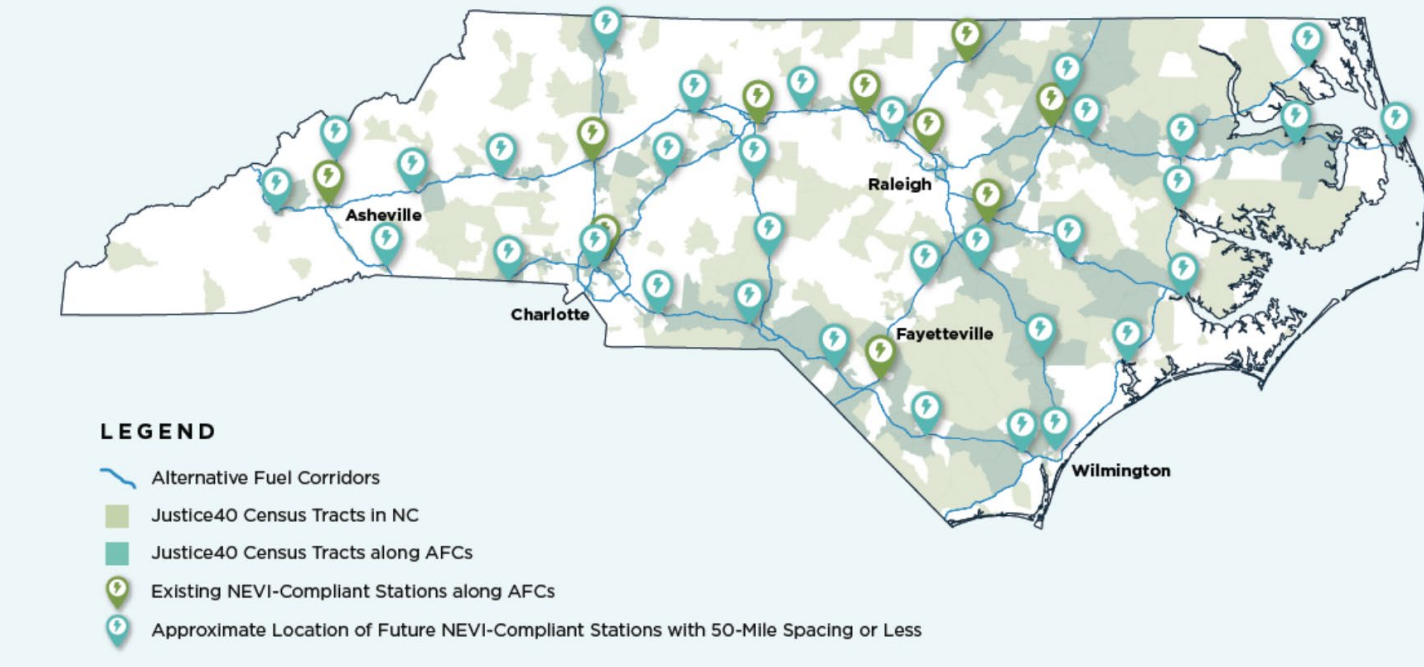
N.C. NEVI Plan Overview

\$108 Million in funding to the state to build out the Alternative Fuel Corridors and support community-based charging infrastructure

N.C.'s NEVI Plan Goals:

- Build an **easily accessible** EV charging network
- Increase overall **network reliability**
- Ensure **equitable distribution of benefits**, particularly related to traditionally disadvantaged communities
- Expand access to **economic and workforce development** opportunities
- Reliability during **emergency events**

North Carolina's Alternative Fuel Corridors (AFCs)



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