



Green Vehicles
and Applications:
Emissions
Reductions and
Case Studies

Carter Spradling



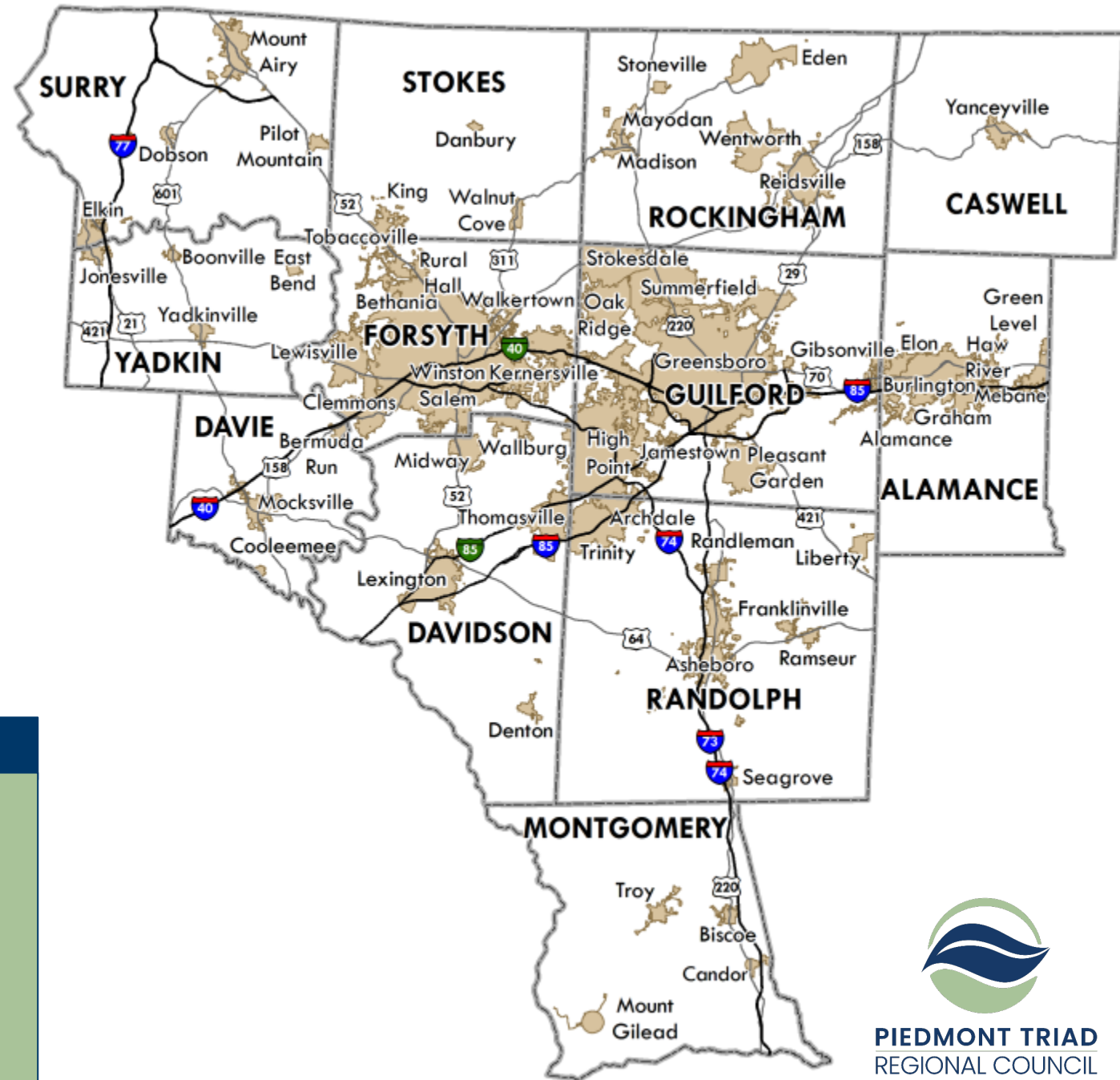
PIEDMONT TRIAD
REGIONAL COUNCIL

Who is PTRC?

- Voluntary Association of local governments
- Designated by the State of NC to serve as the lead regional organization for the Piedmont Triad Region
- 75 member governments in a 12 county area
- Provide management, planning, and technical services to local governments
- Implement joint regional decisions
- Promote regional issues and cooperation among members

Services we provide:

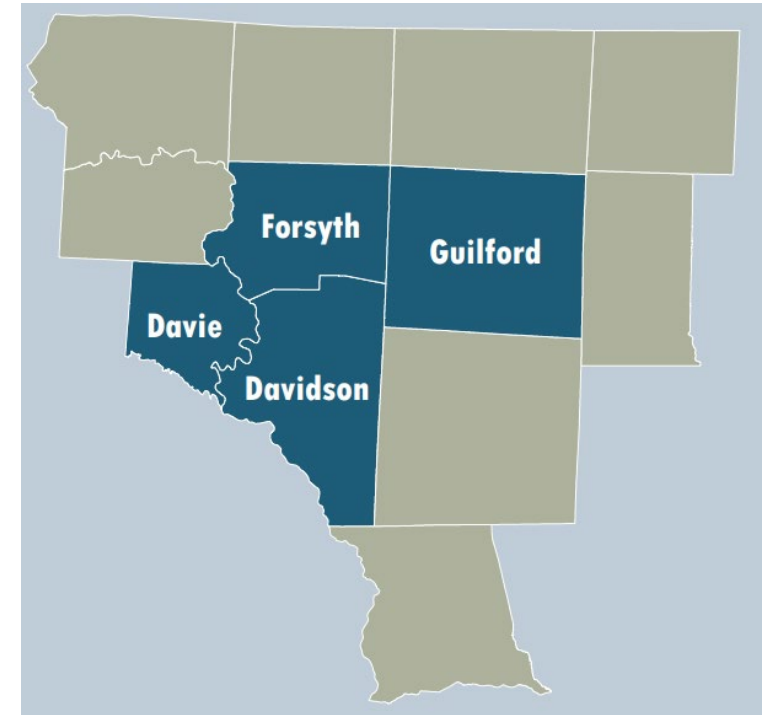
- Regional Planning
- Workforce Development
- Housing Programs
- Aging Services
- Water Resource Mgt
- Criminal Justice Admin
- Weatherization
- Technical Assistance



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CLEAN FUELS AND ADVANCED TECHNOLOGY (CFAT)

- Reducing transportation related emissions in NC counties with air quality concerns
- PTRC conducts education and outreach activities
- Diesel retrofits, Alternative Fuel Vehicle Solutions, Electric Vehicle Infrastructure



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CMAQ Eligible Counties

Great Smoky Mountains National Park

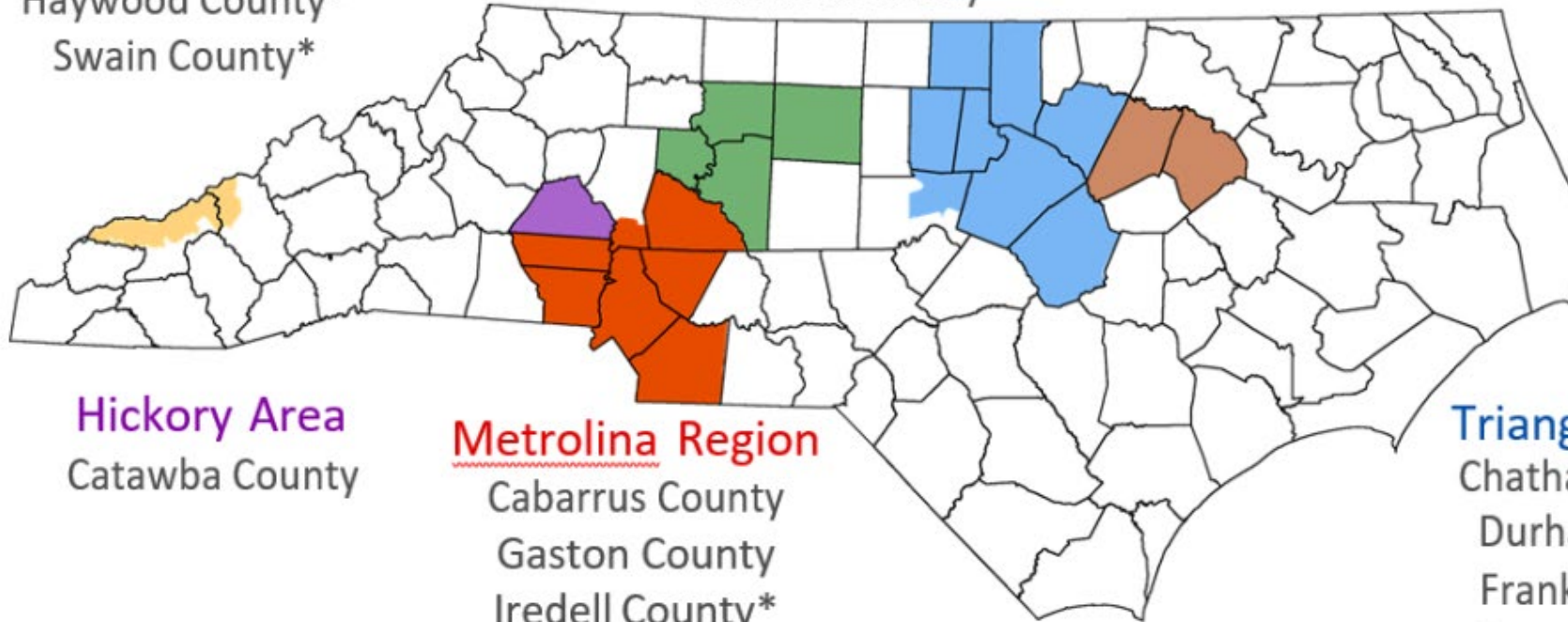
Haywood County*
Swain County*

Triad Region

Davidson County
Davie County
Forsyth County
Guilford County

Rocky Mount Area

Edgecombe County
Nash County



Hickory Area

Catawba County

Metrolina Region

Cabarrus County
Gaston County
Iredell County*
Lincoln County
Mecklenburg County
Rowan County
Union County

Triangle Region

Chatham County*
Durham County
Franklin County
Granville County
Johnston County
Orange County
Person County
Wake County



*Partial County



Map Created By
NCDOT Transportation Planning Division
May 2021



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Level 2 Multi-Unit Dwelling

Applications for \$489,544 in rebates for Level 2 Charging Infrastructure at apartments accepted now until funds exhausted



Level 2 Public Access

Applications for \$1 million in rebates for Public Access Level 2 Charging Infrastructure accepted now until funds exhausted



Level 2 Workplace

Applications for \$489,544 in rebates for Level 2 Charging Infrastructure at workplaces opening July 25, 2022



Clean Heavy-Duty Equipment & Vehicle

Applications for \$12.9 million to replace heavy-duty diesel vehicles and equipment due Aug. 15, 2022



North Carolina Clean Transportation Plan

North Carolina Indicators through December 2021



MANUFACTURING EMPLOYMENT

#3 in the Southeast (total)

- Jobs: 2,300
- Up 1,900 from July 2021
- 3% of national total



MANUFACTURING INVESTMENT

#3 in the Southeast (total)

- Investment: \$1.3 billion
- Up by more than \$1.2 billion from July 2021
- 2% of national total



SALES

#3 in the Southeast (per capita)

- Cumulative sales: 36,329
- 54% growth in 2021
- 3.5 EVs sold per 1,000 people
- 3% of market share in state in 2021



CHARGING DEPLOYMENT

#3 in the Southeast (per capita)

- Total: 2,723 ports
- 42% growth in 2021
- 0.27 ports per 1,000 people



UTILITY INVESTMENT

#2 in the Southeast (total)

- Approved: \$48.2 million
- No change in 2021
- 1% of national total



GOVERNMENT FUNDING

#3 in the Southeast (total)

- VW Settlement Awarded for EVs: \$11.5 million
- Federal Low-No Awarded: \$12.7 million
- VW Settlement Funding Remaining: \$47.6 million



Mileage Based User Fees: What They Are & Why We Care

What is an **MBUF**?

A mileage-based user fee, or MBUF:

- Charges drivers for the number of miles traveled, not on how much fuel is purchased
- Re-creates a link between how much drivers pay and how much they drive

From this...



HOW MUCH FUEL
YOU USE



To this...



HOW MANY MILES
YOU DRIVE

Who we are.

The Eastern Transportation Coalition is a partnership of 17 Eastern U.S. states and Washington, D.C. working to address transportation challenges.

We equip policymakers with information from real-world MBUF pilots, public opinion surveys, focus groups, and data analysis, so they can make informed decisions about transportation funding.

We bring an Eastern U.S. perspective to the national MBUF conversation because our region is unique.

Significant
cross-state
travel



Numerous
toll
facilities



60+

Major
truck
corridor



Virginia has a
live MBUF
program



How to Participate in the Pilot



ENROLL



INSERT



DRIVE



RETURN

These steps may vary depending on the mileage-reporting option selected.



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