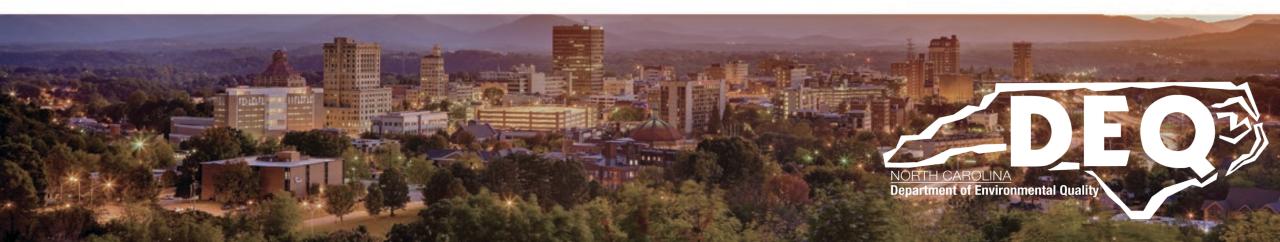


NC Air Quality Update

October 24, 2022 Mike Abraczinskas, Director 2022 ESI Conference



Topics to Cover

NAAQS Update

• PM2.5 – What might a new standard look like?

Compliance

- Statistics
- Common pitfalls
- Boiler Tune-Up Challenges

GHG Inventory and Reduction Strategies

Volkswagen Settlement Update

Emerging Contaminants/PFAS



NAAQS Update



North Carolina and the National Ambient Air Quality Standards

<u>Attaining</u> all federal <u>public health</u> air quality standards for:



and counting!



EPA's NAAQS Review – PM2.5

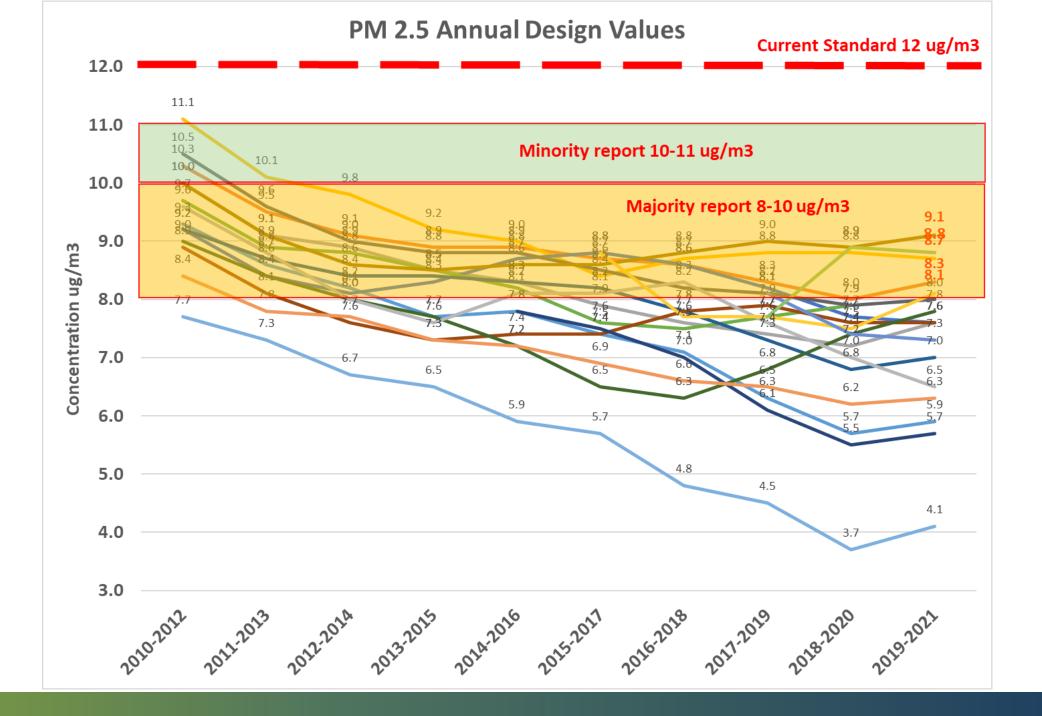
- Clean Air Scientific Advisory Committee (CASAC) and PM Panel Recommendations:
 - Annual standard currently 12 ug/m3
 - Majority report: 8-10 ug/m3
 - Minority report: 10-11 ug/m3
 - Daily standard currently 35 ug/m3
 - Majority report: 25-30 ug/m3
 - Minority report: maintain the current standard of 35 ug/m3
- CASAC also reviewed the need for a secondary PM2.5 standard visibility standard



EPA's NAAQS Review – PM2.5

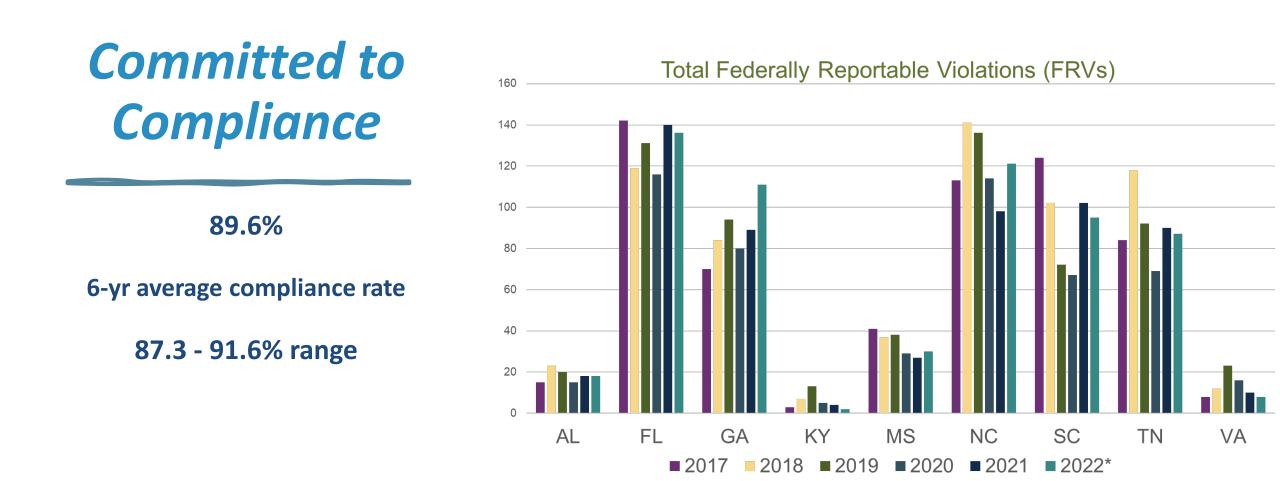
- Proposal coming very, very soon
- Things state/local air agencies are watching:
 - What would impacts be if annual (12 ug/m3) and 24-hr (35 ug/m3) are lowered?
 - "Revisit" the treatment of wildfire as exceptional events
 - Additional monitoring requirements
- Things the regulated community should watch:
 - Impacts to modeling in the permitting process





Compliance





Common Compliance Pitfalls

- Stack test compliance issues
- Incomplete emissions inventories
- Late reports
- 112 (r) compliance



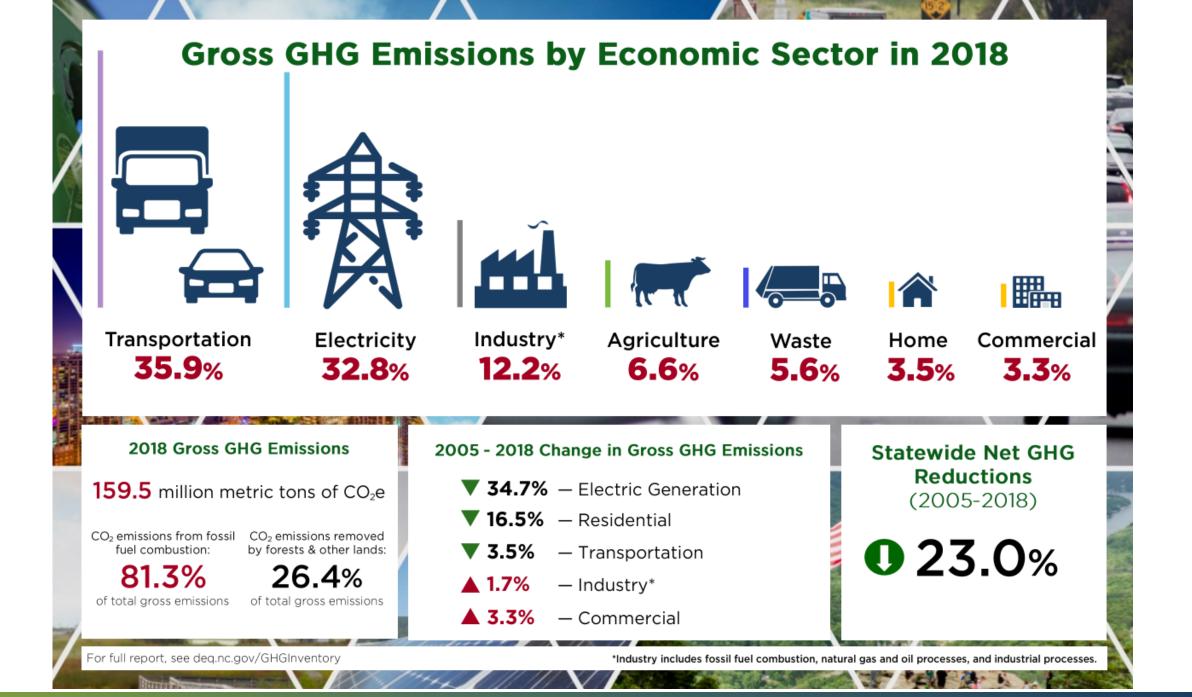
Boiler Tune-Up Challenges

- 40 CFR 63, Subpart DDDDD (Boiler MACT) and Subpart JJJJJJ (Boiler GACT) require periodic tune-ups on an annual, biennial, or once every five-year basis.
- Some companies have notified DAQ that they have experienced challenges finding a contractor willing to perform the needed boiler tune-up.
- Due to staffing issues and other economic factors, certain contractors have stated that tune-ups are not a "priority" for them.
- May be more challenging for facilities with 2-year or 5-year tune-up schedules.
- DAQ recommends scheduling tune-ups well ahead of deadline to work through any potential issues with boiler tune-up contractors.

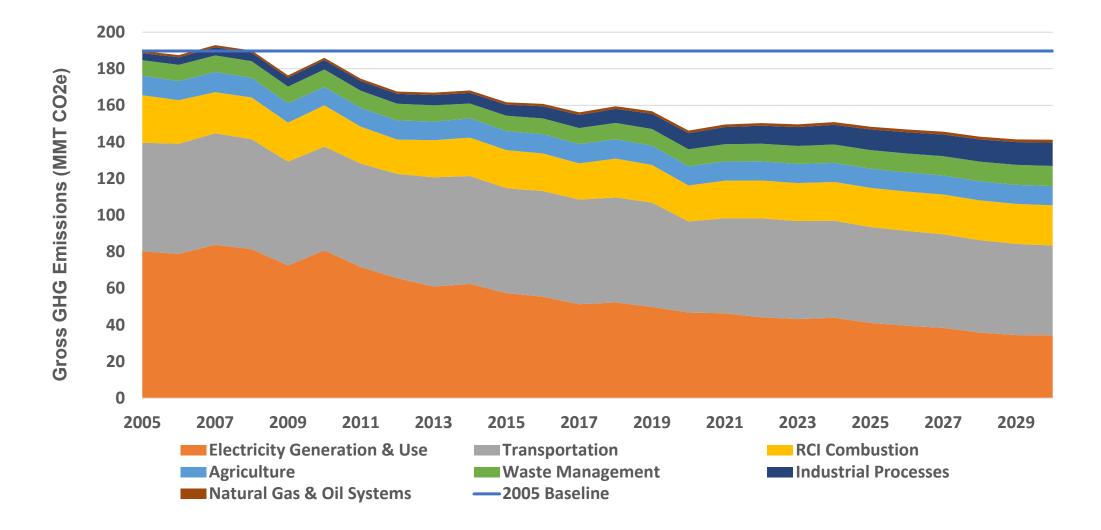


GHG Inventory and Reduction Strategies





NC Gross GHG Emissions Trends by Source Sector, 2005-2030



Reducing GHGs NC Executive Actions

2018 EO 80

- Reduce GHG emissions by 40% below 2005 levels by 2025
- Increase total number of registered LD ZEVs to at least 80,000 by 2025
- Reduce energy consumption in state-owned buildings by 40% below 2002-2003 levels

2022

EO 246

- Reduce GHG emissions by 50% below 2005 levels by 2030
- Increase total number of registered LD ZEVs to at least 1.25
 million by 2030
- Increase the sale of ZEV so that 50% of in-state sales are zero emission by 2030
- NC DOT to develop Clean Transportation Plan by April 2023

MHD ZEV MOU

- Advance & accelerate MHD ZEV sales & reduce GHGs from this sector
- 30% of all new MHD vehicle sales be zero emission vehicles by 2030
- 100% of all new MHD vehicle sales be zero emission vehicles by 2050

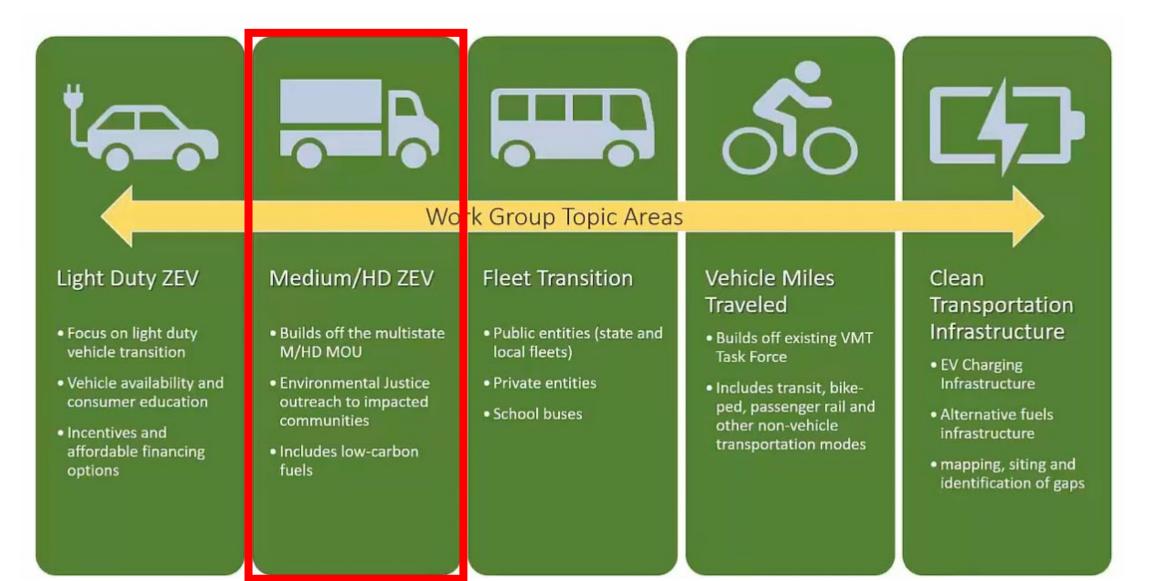




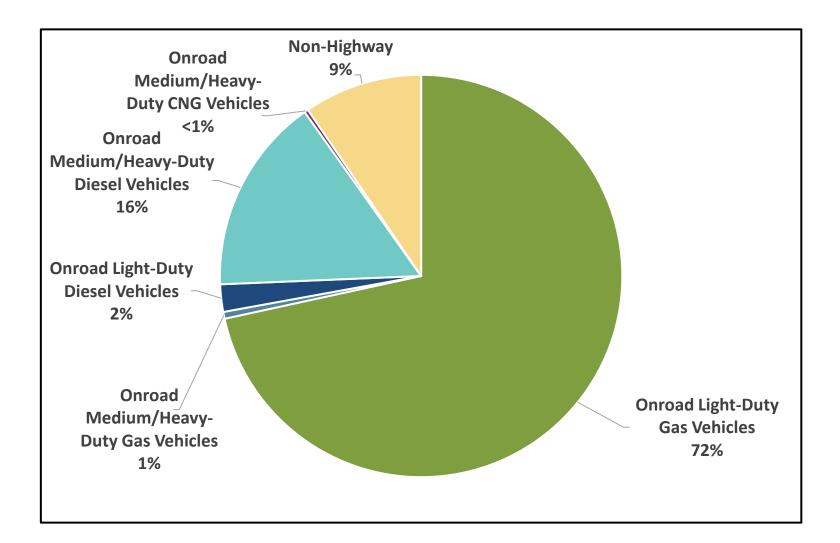
Transportation corridors in NC



NC Clean Transportation Plan



Distribution of 2018 North Carolina Transportation GHG Emissions



Reducing Emissions

Through Funding Opportunities

N.C. Volkswagen Settlement
Phase 1: ~\$30,000,000
Phase 2: ~\$63,000,000 (in process)



National Electric Vehicle Infrastructure (NEVI) Program • NCDOT submitted plan August 2022

N.C. Volkswagen Settlement Program



Transit and Shuttle Bus Program

- Applications closed May 2, 2022
- Awarded \$13.6 million in August 2022
- 61 clean transit buses, 25 are electric

School Bus Program

- Applications closed June 6, 2022
- Announced last week: \$30.1 million awarded
- 131 clean school buses, 43 are electric



DC Fast ZEV Infrastructure — Priority Corridors Program

- Applications closed May 18, 2022
- \$5 million available, but \$33.5 million requested
- Awards to be announced in coming weeks

DC Fast ZEV Infrastructure — Existing Sites Program

- Applications closed July 11, 2022
- \$1.6 million allocated, \$894,423 requested
- Awards to be announced in coming weeks



Level 2 ZEV Infrastructure — State Agency Program

- Applications closed on June 6, 2022
- \$2.3 million requested for 170 new charging ports
- Announced last week: \$1 million for 103 charging ports

Level 2 ZEV Infrastructure — Public Access Program

- Applications opened May 2, 2022
- Rebates awarded on first-come, first-served basis while funds last
- \$736,000 awarded to date for new charging ports
- \$1.1 million allocated to this program
- Rebate funds still available to qualifying applicants



Level 2 ZEV Infrastructure — Multi-Unit Dwelling Program

- Applications opened June 13, 2022
- Rebates awarded on first-come, first-served basis while funds last
- \$489,544 allocated to this program
- Rebate funds still available to qualifying applicants

Level 2 ZEV Infrastructure — Workplace Program

- Applications opened on July 25, 2022
- Rebates awarded on first-come, first-served basis while funds last
- \$489,544 allocated to this program
- Rebate funds still available to qualifying applicants



Reviewing first-

applications

round

Clean Heavy-Duty Vehicle Program

- Applications closed August 15, 2022
- \$12.9 million allocated, \$11.0 million requested
- Award announcements next month

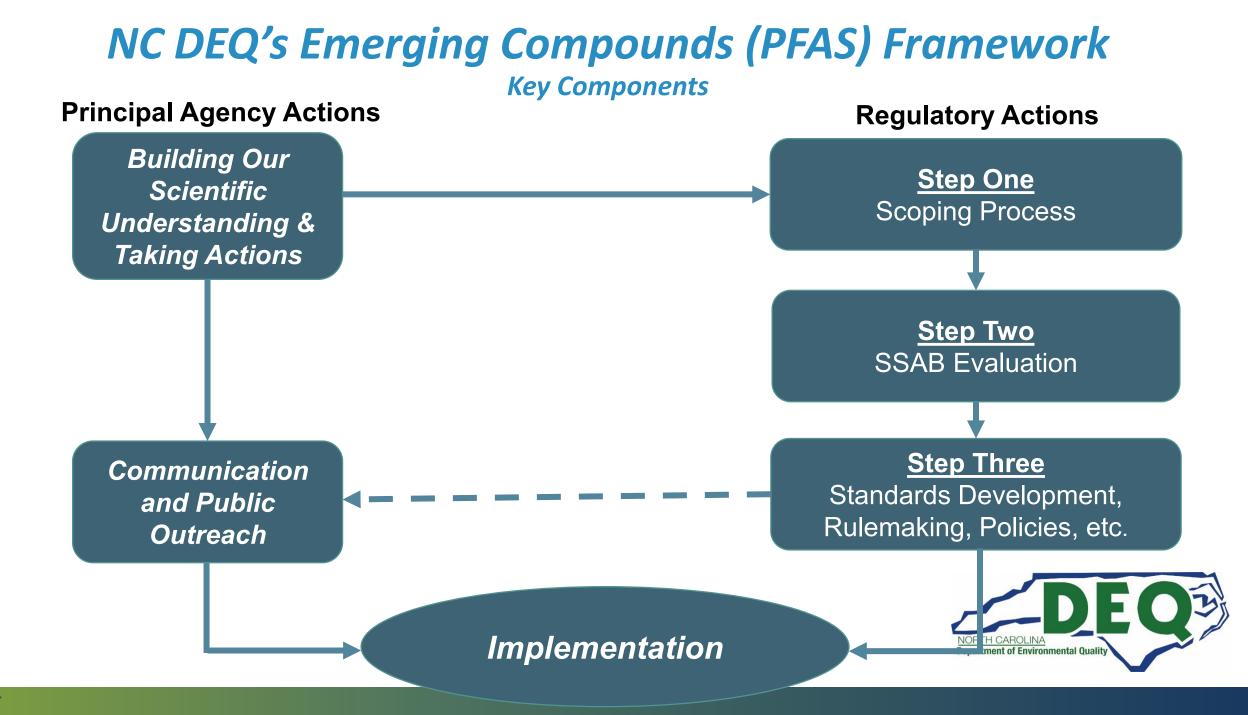
Contact the VW Team for more information!



Emerging Contaminants

PFAS





This too!

- DAQ's Budget and Staffing/Workload Assessment
- Rule change to reduce/eliminate paper submittals Going Digital !
- Inflation Reduction Act
- NSR listening sessions
- Ambient monitoring methods for PM2.5
- Startup, Shutdown, Malfunction (SSM)
- GHG Emissions Guidelines for existing EGUs (111d)

Thank you!

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