METROPOLITAN WASHINGTON AIR QUALITY COMMITTEE

Air Quality Planning in Metropolitan Washington

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Metropolitan Washington Air Quality Committee February 27, 2019



Clean Air Legislative History

- Regulates emission of air pollutants from human sources
 - Classifies areas that do not meet the federal health standard as nonattainment areas (marginal, moderate, severe)
 - Criteria pollutants include Ozone, PM, CO, NO₂, SO_x, Pb
 - NAAQS, SIPs, NSPS, PSD, NESHAPs
 - · Stationary and mobile source controls; interstate transport
 - Acid rain, toxics regulation
 - · Monitoring, research & assistance to states
- Legislation
 - Air Pollution Control Act of 1955
 - Clean Air Act of 1963
 - Motor Vehicle Air Pollution Control Act of 1965
 - Air Quality Act of 1967
 - Clean Air Act of 1970
 - Clean Air Act Amendments of 1977
 - · Clean Air Act Amendments of 1990



Metropolitan Washington Air Quality Committee

- Designated body for air quality planning for the Washington nonattainment Region
- Created in 1992
- Authority derived from certification from the Mayor/Governors as the region's air quality planning entity





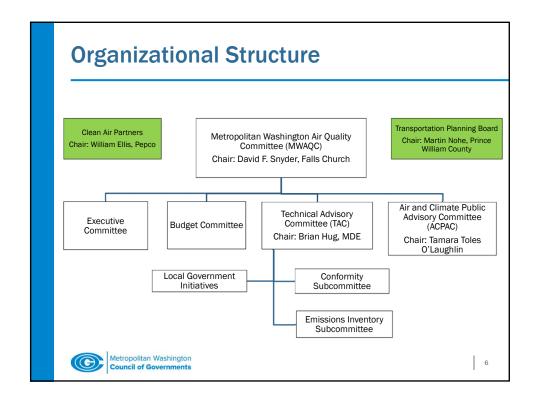
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Role of MWAQC

- Prepare/revise region-wide State Implementation Plans (SIP)
 - Demonstrate attainment of federal national ambient air quality standards (NAAQS) for criteria pollutants
 - Demonstrate rate of progress reducing criteria air pollutants
 - · Include inventories& emission budgets
 - Provide a maintenance plan after the region attains compliance
- Perform other functions to improve regional air quality
- Cooperate with other committees
 - TPB, COG Board of Directors, policy committees (CEEPC/CBPC)
 - · Tri-County Council for Southern Maryland
 - State air & transportation agencies and local governments
- Develop and maintain a public participation & education program
- Advocate for plan elements



District of Columbia (6)	
	Mayor (2), Council (2)
Distr	ct Department of Energy and Environment
	District Department of Transportation
Maryland (20)	Virginia (17)
City of Bowie	City of Alexandria
City of College Park	City of Fairfax
City of Frederick	City of Falls Church
City of Gaithersburg	City of Manassas
City of Greenbelt	City of Manassas Park
City of Rockville	Arlington County
City of Takoma Park	Fairfax County (3)
Frederick County	Loudoun County
Montgomery County (1 Executive, 2 Council) Prince William County (2)
Prince George's County (1 Executive, 2 Cou	ncil) Stafford County (1-hour ozone issues only)
Calvert County	Virginia General Assembly (2)
Charles County	Virginia Department of Environmental Quality
Maryland General Assembly (2)	Virginia Department of Transportation
Maryland Department of the Environment	Other (1)
Maryland Department of Transportation	Transportation Planning Board Chair or Designe



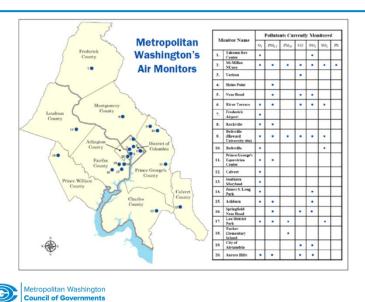
MWAQC and State Air Quality Planning

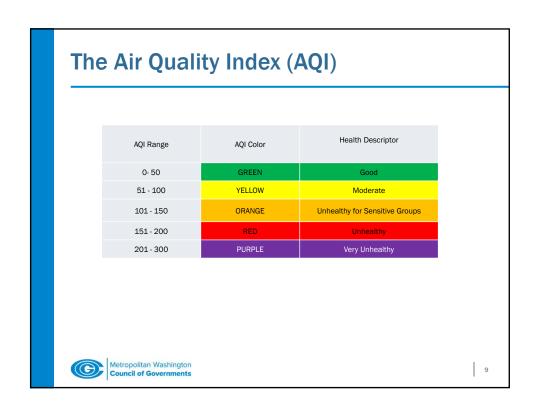
- COG
 - MWAQC Region-wide air quality planning
 - Develop regional air quality plans
 - · Develop regional emissions inventories
 - · Implement regional control measure programs
 - Coordinate with TPB on transportation conformity
 - · Forecast & report regional air quality
 - Clean Air Partners
 - · Serve metropolitan Washington and Baltimore
 - Educate on air quality risks & individual actions to improve air quality
 - · Air Quality Index & notices
- State air agencies
 - Statewide air quality planning and permit facilities
 - · Issue individual source permits
 - · Develop state level emissions inventories
 - Develop & enforce state regulations
 - Develop & implement state-wide measures for area, mobile, and point sources – i.e. emissions & inspection programs

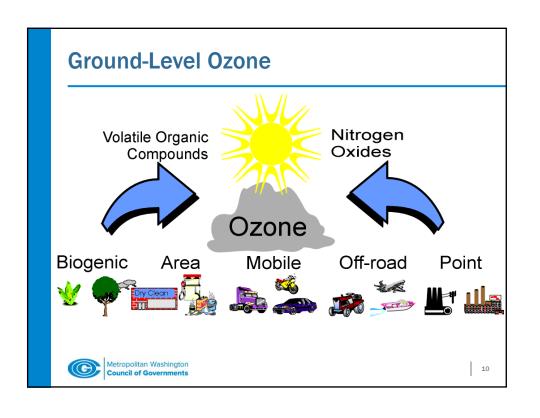


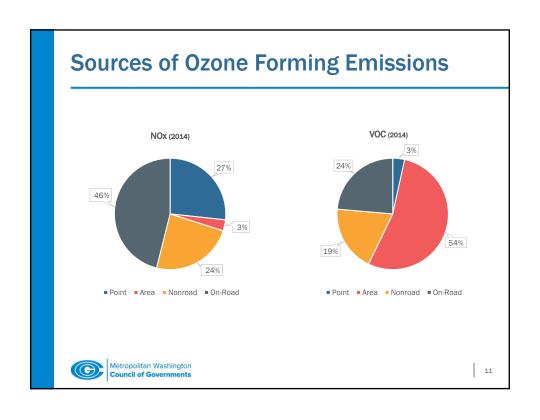
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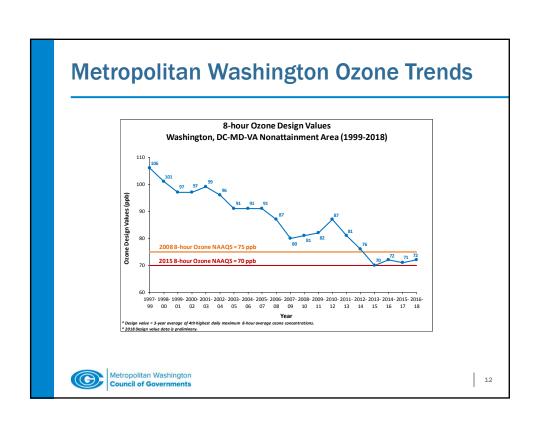
Monitors





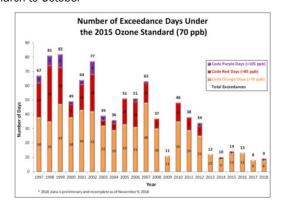






Metropolitan Washington Ozone Trends

- · Striving for no unhealthy air days
- 2018 Ozone Season
 - · Season extended March to October
 - 77 Code Yellow Days
 - 159 Code Green Days
- 2017 Ozone Season
 - 74 Code Yellow Days
 - 101 Code Green Days
- 2016 Ozone Season
 - 77 Code Yellow Days
 - 93 Code Green Days





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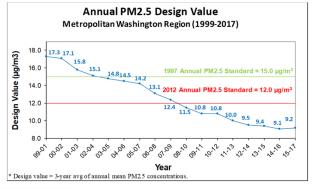
2015 Ozone NAAQS Attainment Schedule

- Washington DC-MD-VA marginal nonattainment issued August 3, 2018
- Requires
 - · Base year emissions inventory due within 2 years
 - · Transportation conformity demonstration
 - Periodic emission inventory updates, major source emission statements, RACT determination & new source review program
- Attainment date 3 years from nonattainment designation
 - · Use 2018-2020 data
- Attainment?
 - · Submit Redesignation Request & Maintenance Plan
- · Non-attainment?
 - Possible extensions (two, one-year each) if showing progress
 - · Region would be bumped to moderate nonattainment after August 2021
 - · Requires State Implementation Plan
 - Demonstrate attainment by 2024 (use 2020-2023 data)



Fine Particles (PM_{2.5})

- · Chemical, particulate matter or aerosol
- From combustion, cars & trucks, construction, power plants, industry
- · Causes respiratory problems, impairs visibility
- · COG/state forecasting & reporting





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Climate, Energy, Environment, & Policy Committee (CEEPC)

- · Created by the COG Board of Directors in 2009
 - Provide leadership on climate change, energy, green building, alternative fuels, solid waste & recycling issues.
 - Help support area governments work together to meet the goals in the 2008 National Capital Region Climate Change Report.





Climate, Energy, Environment, & Policy Committee (CEEPC)

- 2017-2020 Climate & Energy Action Plan
 - · Reduce energy consumption
 - · Increase share of renewables
 - Advance sustainable regional mobility
 - · Increase sustainable urban development
 - Move towards zero waste
 - · Build regional resilience
 - · Protect equity & health
 - Grow the regional clean economy
- Activities
 - Built Environment & Energy Advisory Committee
 - · Climate and Energy Action Plan support and Resource Guide
 - · Climate and Energy Awards Program
 - · Technical assistance
 - Grant support
 - Cooperative purchasing



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Changing Regulatory Environment

- Eased determination requirements for New Source Reviews
- Modified landfill, oil & gas, and public lands methane emission rules
- Withdrew Cross-State Air Pollution Rule update & rejected Maryland's Good-Neighbor petition
- Delayed compliance dates for federal building efficiency standards
- · Eliminated or modified monitoring and reporting requirements
- · Reversed repeal of emission standards for glider trucks
- Reversed one-year delay of 2015 ozone NAAQS
- Proposed freeze of light duty vehicle fuel economy standards
- · Proposed Affordable Clean Energy rule
- Proposed MATS rule on cost-effectiveness calculation
- · Proposed rules for air pollution in national parks and wilderness areas
- Proposed repeal of refrigerant leak-repair, maintenance & reporting rules
- Proposed limiting studies for rulemaking to those with publicly available data
- Proposed withdrawing residential furnace, commercial water heater & light bulb efficiency standards
- Reviewing emissions rules for power plant start-up/shutdown/malfunctions



What Local Members Can Do

Renewable Energy **Energy Efficiency Mobile Vehicle Programs Programs Programs** Green power purchasing · Building energy efficiency Idle reduction New building On-road & off-road Renewable Power performance standards; Programs. Purchase Agreements infrastructure & Net-zero Community choice Existing buildings technology aggregation benchmarking & Adopt California car Opt-out/Opt-in improvements standard Financing (PACE, Green Community solar/solar EV infrastructure & co-ops vehicle expansion Microgrids/CHP Bike & pedestrian Back-up solar + storage infrastructure

Other measures

- · Activity centers with high capacity transit
- · Tree canopy improvements
- · Healthy soils for sequestration
- · Local procurement/supply chain
- Waste management
- Advocacy



What We Can Do Report Climate & Energy Action Plan Gold Book

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Air Quality Resources

MWAQC Committee Page

 https://www.mwcog.org/committees/metropolitan-washington-airquality-committee/

Air Quality Trends Report

https://www.mwcog.org/documents/2014/10/02/gold-book-state-and-local-government-initiatives-to-clean-the-air-air-quality/

Current Air Quality Data & Forecasts

- https://www.mwcog.org/environment/planning-areas/air-quality/airquality-forecast/
- http://www.cleanairpartners.net/

Historical Air Quality Data

- https://www.mwcog.org/environment/planning-areas/air-quality/airquality-data/
- http://www.cleanairpartners.net/

Download the free Air Quality App and Sign Up for EnviroFlash

http://www.cleanairpartners.net/



