

Air Quality Conformity Analysis

FY2021-2024 Transportation Improvement Program & 2020 Amendment to the Visualize 2045 Plan

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Citizens Advisory Committee
July 18, 2019



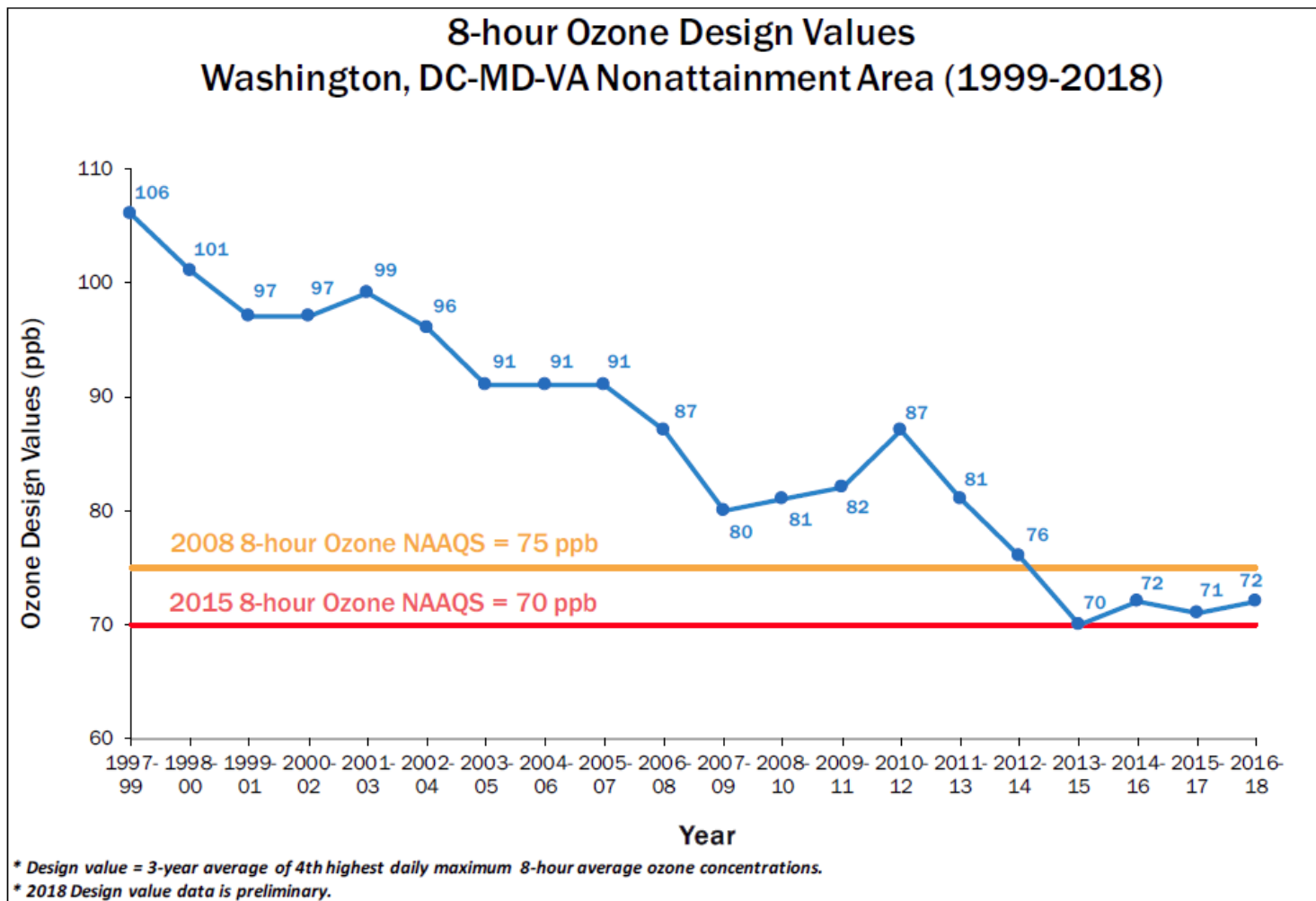
National Capital Region
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Air Quality Conformity

- EPA establishes National Ambient Air Quality Standards (NAAQS) for six “criteria pollutants”
- EPA uses data from air quality monitors to designate areas as “attainment” or “non-attainment” of air quality standards
- The Washington DC-MD-VA Region does not meet current (2015) federal standards for ozone, and is designated as a “marginal” non-attainment



OZONE MONITOR DATA



Air Quality Conformity

States develop State Implementation Plans (SIPs) and/ or Maintenance Plans for areas found to be in Non-Attainment of EPA standards

In Non-Attainment areas, transportation plans and programs must be consistent with the purpose of the SIP



Air Quality Conformity Analysis

Demonstrates that future vehicle emissions in both the Long Range Transportation Plan and the Transportation Improvement Program (TIP) will remain below the mobile emissions budgets established in the EPA-approved SIP and/or Maintenance Plan

Under federal law, the Air Quality Conformity Analysis does not include emissions from “point,” “non-road,” or “area” sources



Mobile Source



Point Source



Non-Road Source



Area Source

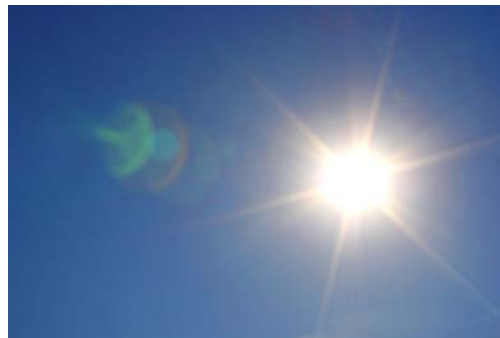


Air Quality Conformity

Volatile Organic Compounds (VOC) and Nitrogen Oxides (NO_x) are ozone precursors

VOC + NO_x

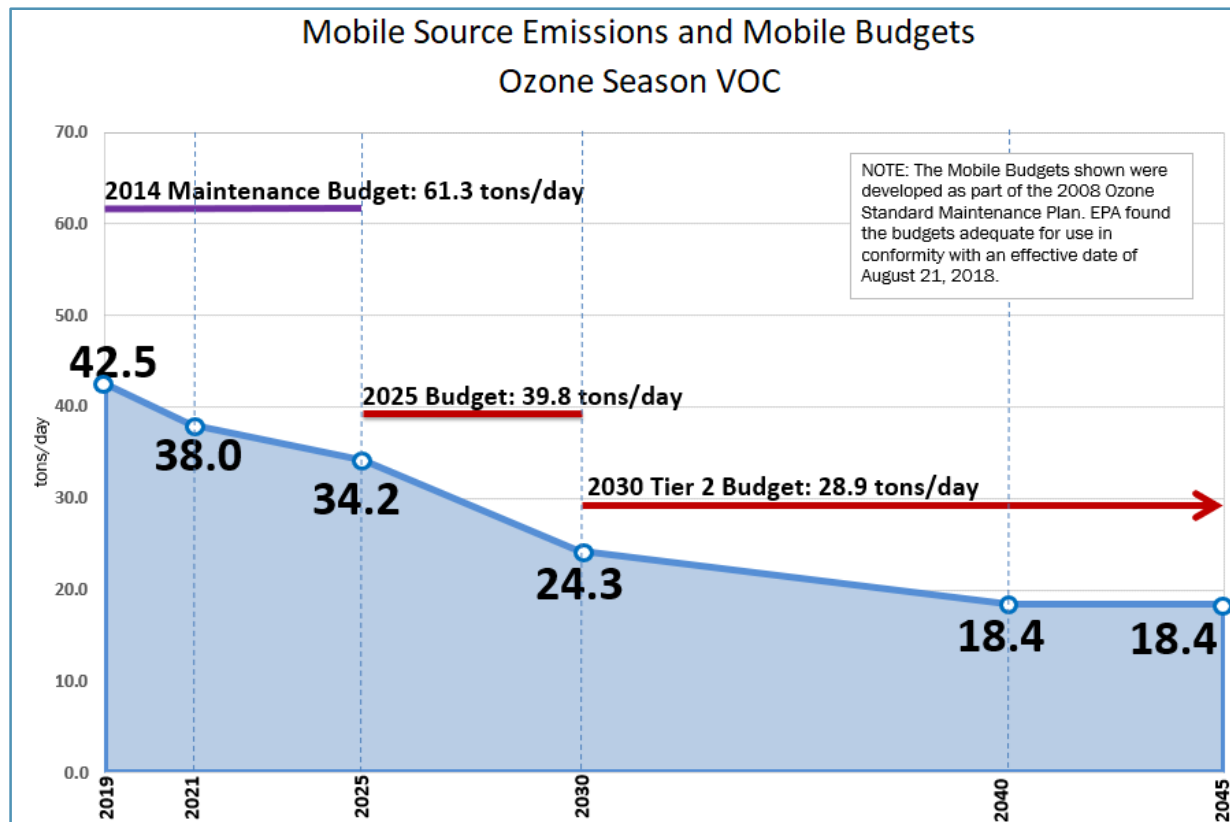
+



= Ozone



Air Quality Conformity

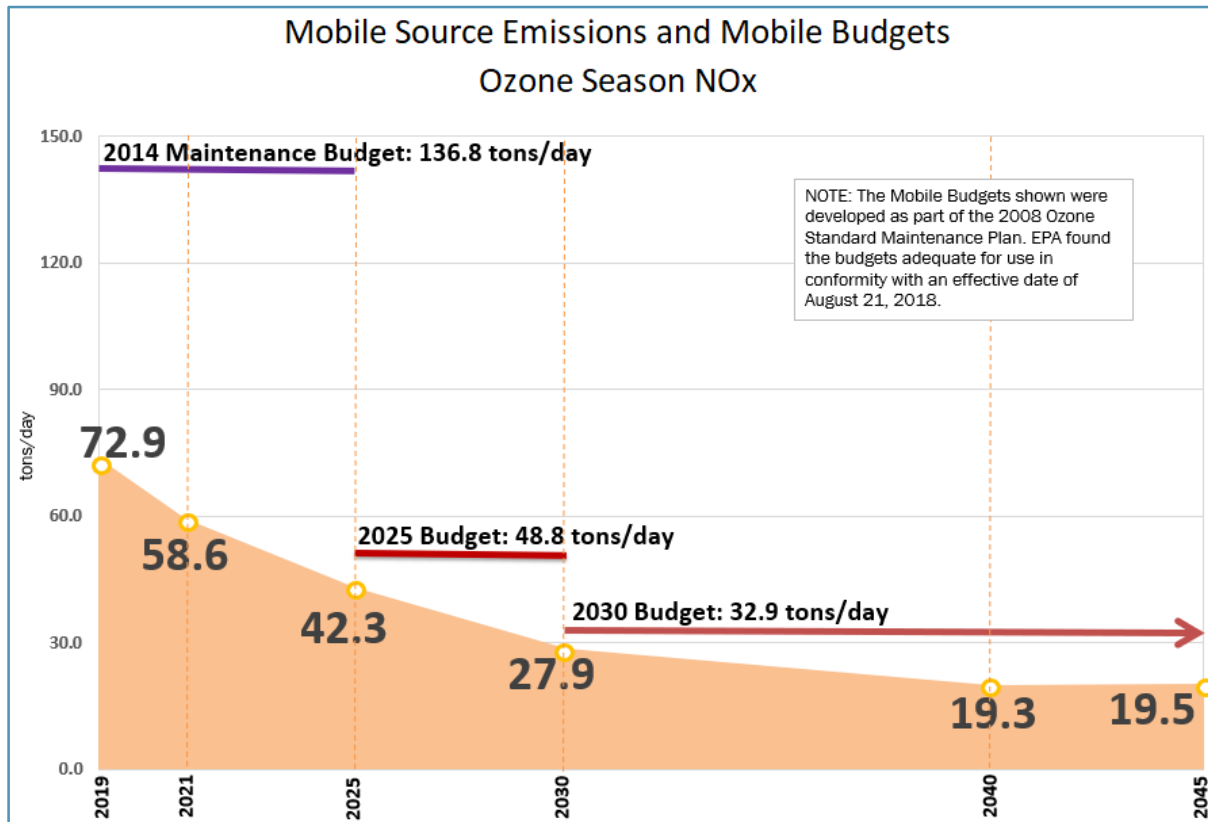


- MWAQC develops mobile budgets
- TPB develops mobile inventories that must adhere to the mobile budgets

Source: Visualize 2045 Air Quality Conformity Analysis



Air Quality Conformity



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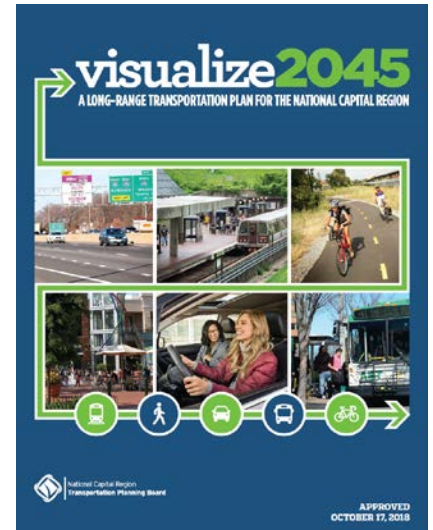


AIR QUALITY CONFORMITY ANALYSIS OF THE 2021-2024 TIP AND 2020 AMENDMENT TO THE VISUALIZE 2045 PLAN



VISUALIZE 2045

- Regional Context & Policy
- Aspirational Element
- Financial Constrained Element
 - Financial Analysis
 - Projects & Programs
 - Air Quality Conformity Analysis
 - Performance Analysis



MINOR UPDATE TO THE PLAN

- No Financial Analysis
- No Performance Analysis



POLLUTANTS

- Volatile Organic Compounds (VOC)
- Nitrogen Oxides (NO_x)
- Greenhouse Gases (not officially for conformity)



ANALYSIS YEARS

2019, 2021, 2025, 2030, 2040, 2045



HIGHLIGHTED PROJECT CHANGES - DC

- Bicycle Lanes, Districtwide
 - 9th St. NW from Florida Ave. to Constitution Ave.
 - Dalecarlia Pkwy. NW from Loughboro Rd. to Westmoreland Circle
 - Florida Ave. NE from 2nd St. to 14th St.
 - K St. NE from 1st St. to 8th St.
 - M St. SE from Half St. to 11th St.
 - Mount Olivet Rd. NE from Brentwood Pkwy. to West Virginia Ave.
 - Nebraska Ave. NW from New Mexico Ave. to Loughboro Rd.
 - Pennsylvania Ave. SE from 2nd St. to 17th St.



HIGHLIGHTED PROJECT CHANGES - DC

- Peak Period Bus-Only Lanes
 - H St. NW from 14th St. to 19th St.
 - I St. NW from 13th St. to Pennsylvania Ave.



- K ST. NW Transitway
 - Construct two segments from 9th St. to 12th St. and from 12th St. to 21st St.



HIGHLIGHTED PROJECT CHANGES - VIRGINIA

- Modify I-495 Capital Beltway Express Lanes
 - Construct 3 additional ramps near Dulles Toll Road interchange
 - Continuation of Peak Period NB Shoulder Lane
- Construct reversible ramp from I-95 at Opitz Dr.
- Construct VA 28 Manassas Bypass from VA 234 Sudley Rd. to VA 28 Centreville Rd.
- Construct West End Transitway Phase II (Southern Segment) from Van Dorn Street Metro to Landmark Mall



HIGHLIGHTED PROJECT CHANGES - VIRGINIA

- Widen VA 55 from US 29 to the Town of Haymarket
- Widen VA 123 from VA 267 Dulles Access Rd. to VA 634 Great Falls St.
- Widen VA 286 Fairfax County Parkway from US 29 Lee Hwy. to Rolling Rd.

SCHEDULE

July 2019

- TPB approves project inputs and scope of work for air quality conformity analysis

December 2019

- Financial updates for FY2021-2024 TIP due

January 2020

- Public comment period on TIP and results of air quality analysis

February 2020

- TPB briefed on draft TIP and results of conformity analysis

March 2020

- Public comment period ends
- TPB approval of FY2021-2024 TIP, 2020 amendment to the Visualize 2045, and air quality conformity analysis



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