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Department of
Environmental
Conservation

Perspective, Challenges, and Strategies

Ozone Air Quality in New York State

MASS-A&WMA Workshop
October 12, 2017

Ozone Status in New York State

- Tri-State New York City Metropolitan Area:
 - Nonattainment for 2008 and 2015 NAAQS
 - Max 2017 NY design value = 76 ppb (Suffolk, Richmond Counties);
 - Max 2017 Tri-State Area design value = 85 ppb (Westport CT)
- Jamestown Area (western NY):
 - Originally nonattainment for 2008; now attaining both NAAQS
- Remainder of State:
 - Attaining both NAAQS.
- EPA designations for 2015 NAAQS were due Oct. 1, 2017

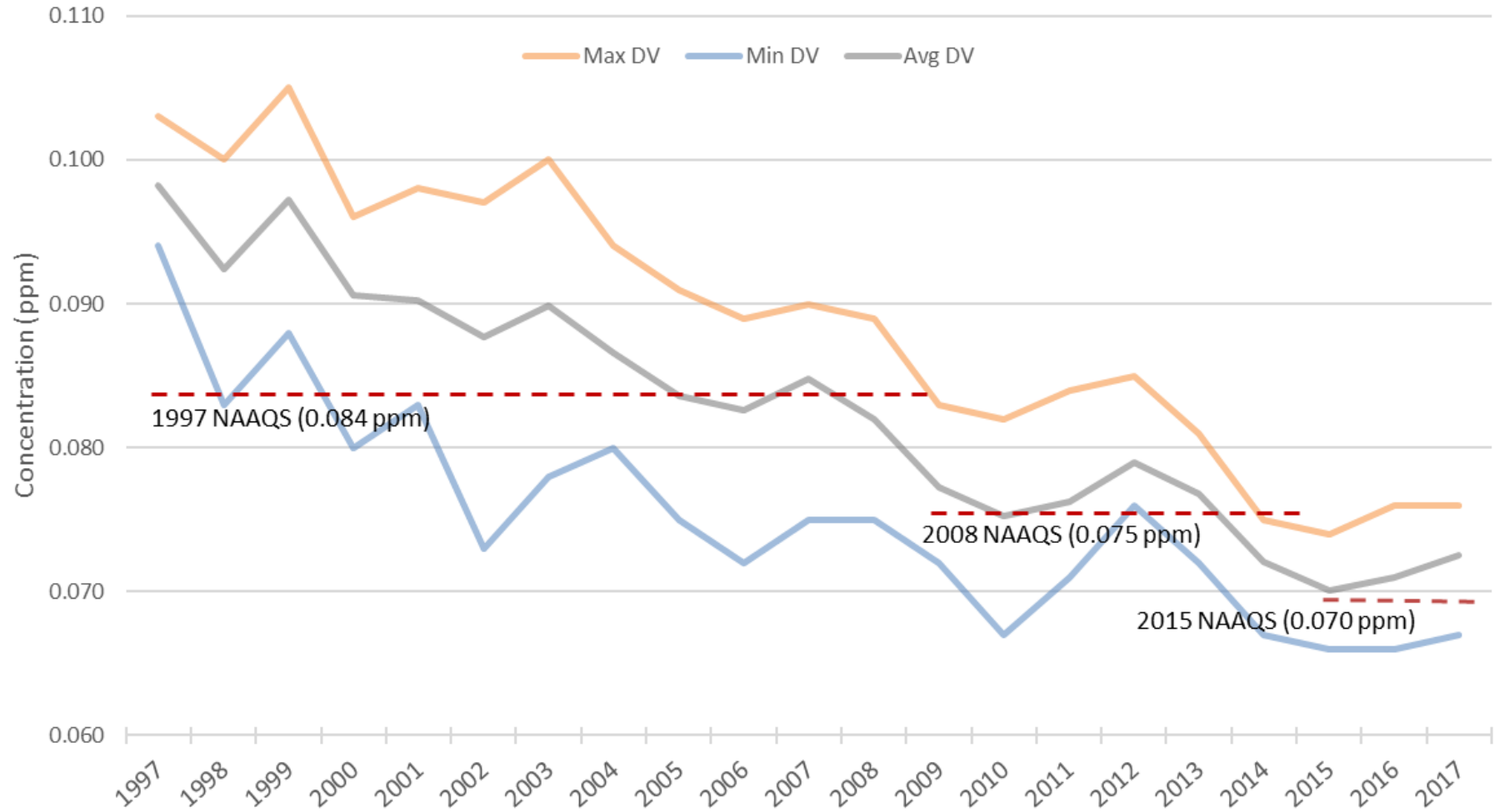


Ozone Status in New York State

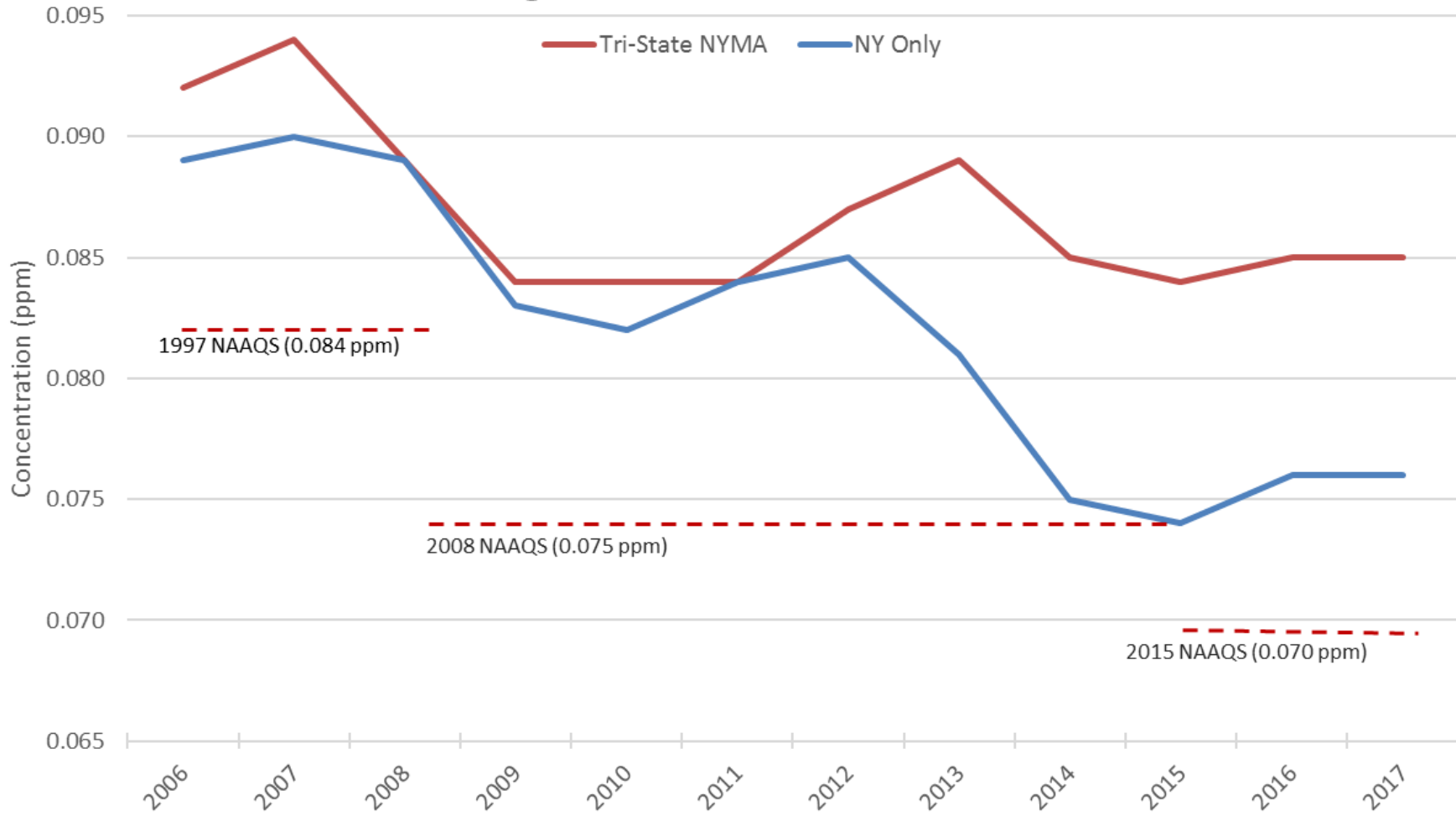
- Reclassification request for 2008 ozone NAAQS in NYC:
 - Preliminary 2017 data show July 20, 2018 “moderate” area deadline will not be met
 - Request reclassification from “moderate” to “serious”
 - Will require additional emission reductions (3% per year)
 - “Serious” area attainment deadline of July 20, 2021 based on 2018-2020 monitored data
 - “Severe”-level control requirements already in place



Ozone Design Value Trend in NY Metro Area (NY Monitors Only)



Ozone Design Value Trend in NY Metro Area



What has Contributed to Progress to Date?

- NY has implemented stringent control measures over a wide range of source categories
 - NOx RACT standards for major EGUs and non-EGUs;
 - Area source regulations (VOC/NOx) consistent with Ozone Transport Commission model rules;
 - Motor vehicle emissions standards and inspection programs
 - At federal level: NOx trading programs
- These measures implemented statewide due to inclusion in OTR



Challenges

- Persistent nonattainment for ozone
 - Improvement seen, but reductions harder to come by and the tri-state area's design value monitor still well over NAAQS
 - NY, NJ, and CT have to address challenges together while continuing to pressure EPA to act on upwind emissions

Challenges

- Need additional controls at multiple levels:
 - Large-scale regional - e.g. address interstate transport
 - Small-scale regional - e.g. transportation, EGUs
- See significant gradient of air quality in area, i.e. large difference in concentrations across Long Island Sound
 - Need to better understand meteorology and influence on ozone readings
 - NY plans to site ozone monitor on northern Long Island shore, relocated from Rochester



Strategies – NYS Regulations

- Larger focus on specific actions for sources/emissions that affect ozone on most conducive days (“high electric demand days”)
 - Part 222 - Distributed Generation rule
 - Controlling/replacing “peaking” combustion turbines
- Updating 21 mobile/area/stationary control programs including:
 - Part 205 - Paint
 - Part 219 - Municipal Solid Waste Combustors
 - Part 228 - Auto body coatings
 - Part 235 - Consumer products



Strategies – Transport Efforts

- S.176A petition to expand OTR
 - Submitted 12/9/13; EPA proposed denial 1/19/17; final action required by 10/27/17
 - EPA's proposal endorsed S.110(a)(2)(D)(i) and S.126(b) options
- S.110(a)(2)(D)(i) suit(s)
 - Many states had unapprovable transport SIPs and EPA failed to implement an adequate FIP within two years
 - Court ruled that EPA failed to act on KY FIP by 6/2/16; EPA must address by 6/30/18
 - EPA action overdue on another 24 states; clock running on others
- Drafting CAA S.126(b) petition for high-emitting upwind EGU and non-EGU sources



Strategies – Use of VW Funds

- \$2.7B mitigation trust fund for specifically defined eligible projects that reduce NOx
- Trust Effective Date Oct. 2; state beneficiaries 60 days to file certifications
- NYS allocation of \$127.7M for mitigation projects. DEC drafting Enviro Mitigation Plan with other state agencies, to be approved by Trustee
- Focus will be on projects that:
 - have significant NOx reductions;
 - can be completed in timely manner;
 - are located in areas of air quality concern;
 - are in areas with disproportionate amount of diesel emissions;
 - advance markets for low-emission transportation technologies and alternative fuels



New York's Vision for the Future

- NY implementing a comprehensive energy strategy: Reforming the Energy Vision
 - General goals: clean energy, affordability, improved infrastructure, resiliency, protect natural resources
 - 2030 goals:
 - 40% reduction in GHG emissions (1990 baseline)
 - 50% of NYS electricity from renewables
 - 23% reduction in public bldg. energy use (2012 baseline)
- Transportation and Climate Initiative
 - 11 states + DC coordinating to develop clean energy economy and reduce oil dependence and GHGs from transportation sector
- Ultra-low NOx standards for on-highway heavy-duty trucks and engines
 - NY (+ others) petitioned EPA; responded by stating intention to propose standards that could begin by MY 2024



Thank You

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