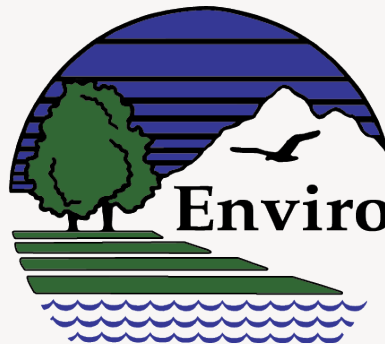


State of the Air Report

Presentation to BIA/DES Air and Water Regulatory Conference

Craig A. Wright, Director

September 21, 2022

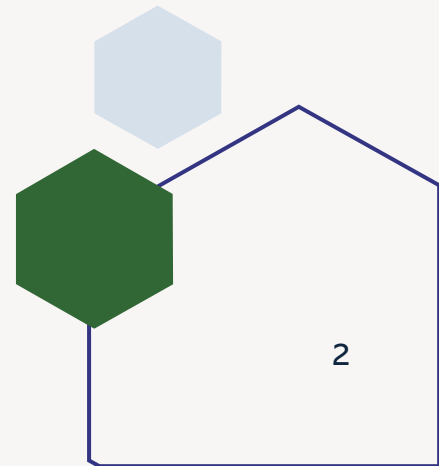


NEW HAMPSHIRE
DEPARTMENT OF
**Environmental
Services**



Summary of Topics

- Status of Air Quality in NH
- ARD Bureaus Updates
- Challenges we are Facing
- Federal Efforts



NHDES Air Resources Division

Director: Craig A. Wright (603) 271-0882

Asst Director: Mike Fitzgerald (603) 271-6390

Permitting and Environmental Health Bureau

Gary Milbury (603) 271-2630

Compliance Bureau

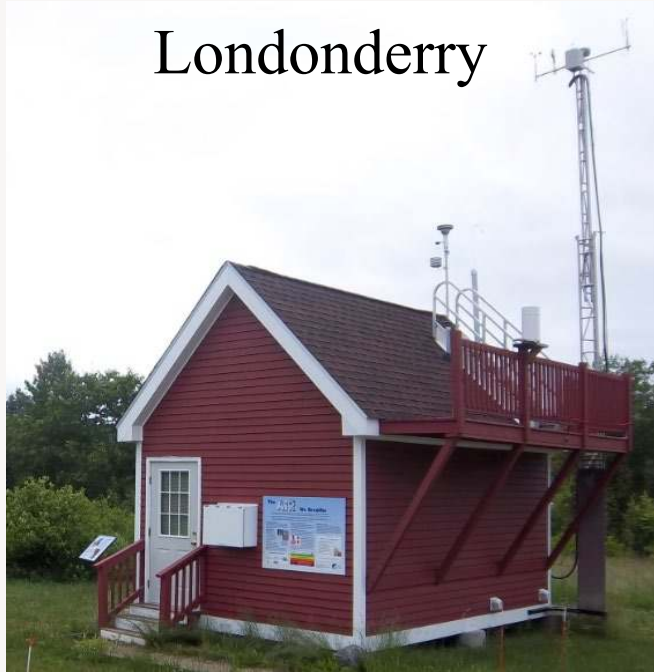
Sheri Eldridge (603) 271-0882

Technical Services Bureau

Rebecca Ohler (603) 271-6749



NH Air Monitoring Stations



Upcoming Planned Changes to Network

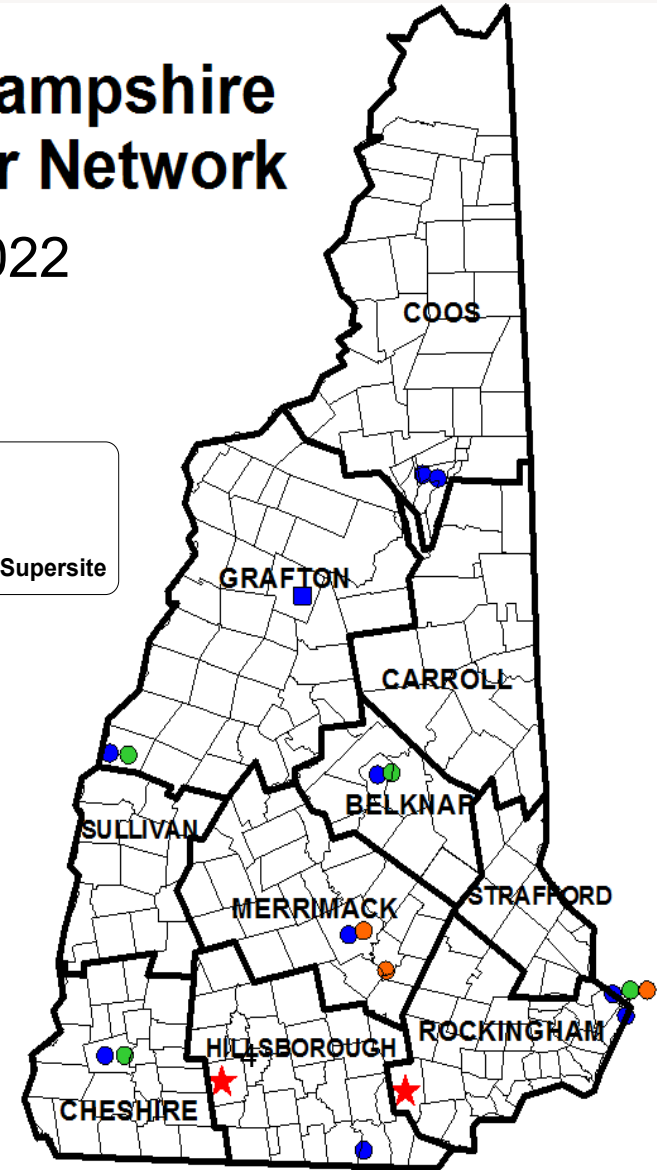
Relocating Laconia Site – Ozone and PM

Adding Trace CO to Mt. Washington

New Hampshire Monitor Network

2022

- Ozone
- PM2.5
- SO2
- ★ NCore Supersite



Status of Air Quality in NH



On 80-90% of days
NH's air quality is
Good!

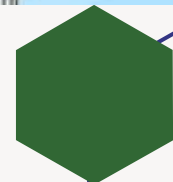
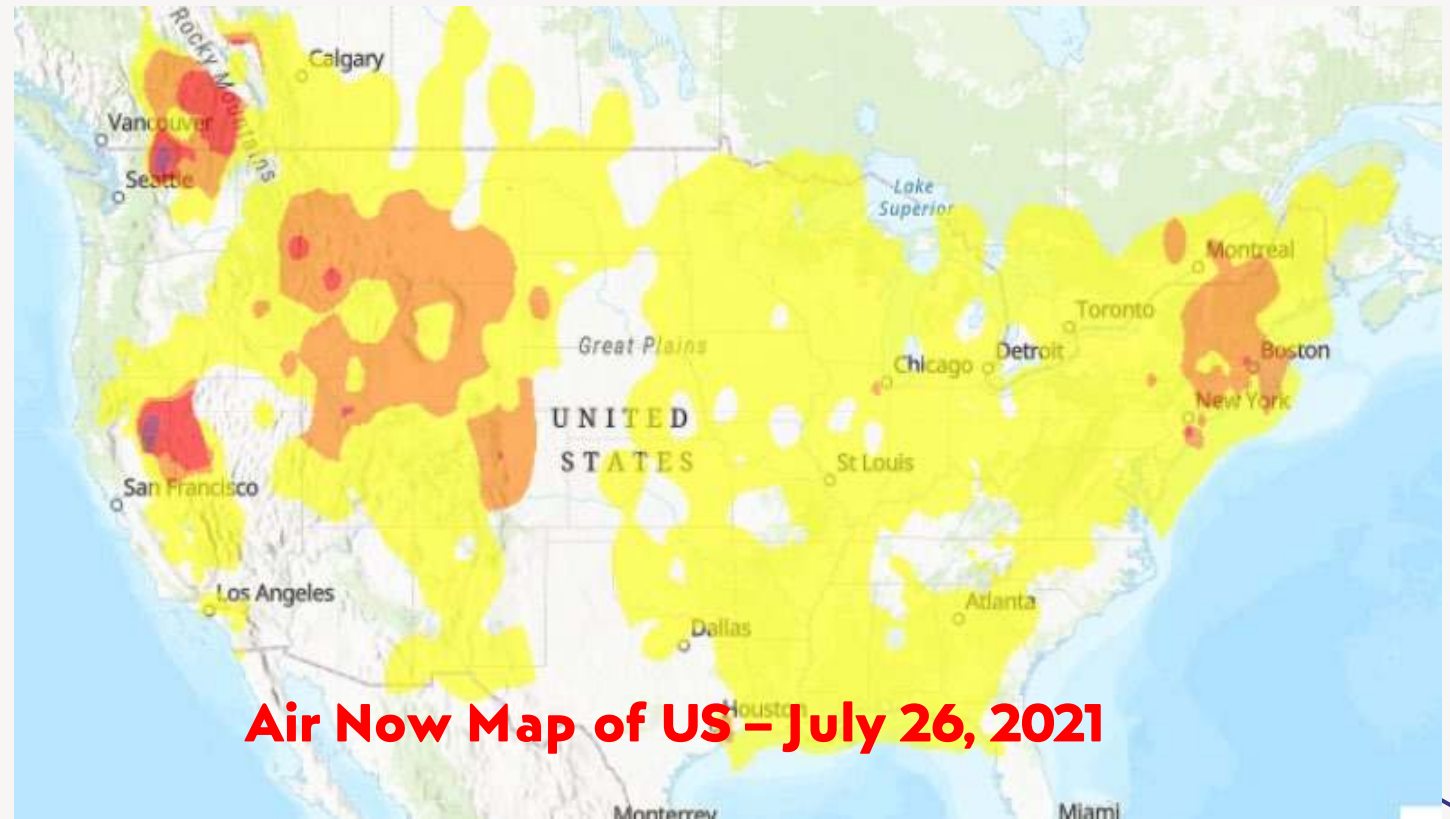
On 10-20% of days
NH's air quality is
Marginal

On some days NH's
air quality is
Unhealthy



Air Quality Events in 2021

PM _{2.5} (STD = 35 ug/m ³)	
7/20/21	24hr Avg
Miller	37 (µg/m ³)
Londonderry	36 (µg/m ³)
7/26/21	
Keene	46 (µg/m ³)
Laconia	39 (µg/m ³)
Lebanon	38 (µg/m ³)
Londonderry	54 (µg/m ³)
Miller	53 (µg/m ³)
Portsmouth	48 (µg/m ³)

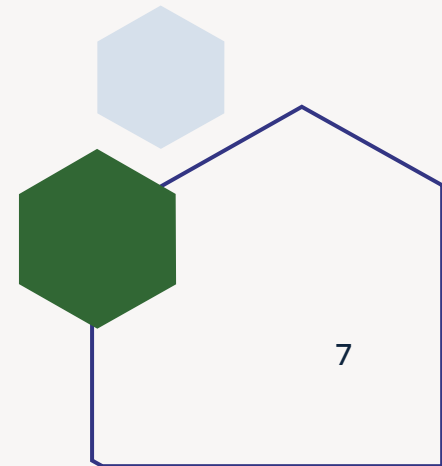


Air Quality Events in 2021 (Continued)

PM _{2.5} (STD = 35 ug/m ³)	
7/20/21	24hr Avg
Miller	37 (µg/m ³)
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Londonderry	54 (µg/m ³)
Miller	53 (µg/m ³)
Portsmouth	48 (µg/m ³)

Ozone (STD = 70 ppb)	
6/6/21	Max 8-hr Avg.
Concord	71 ppb
Rye	75 ppb
8/16/21	
Mt. Washington Summit	80 ppb
8/26/21	
Rye	77 ppb

Sulfur Dioxide (STD = 75)	
3/4/21	Max 1-hr
Pembroke	77 ppb



Air Quality Events in 2022

So far 2022 has been better than 2021

Ozone (STD = 70 ppb)	
7/1/22	Max 8-hr Avg.
Portsmouth	71 ppb
Rye	74 ppb
7/20/22	
Rye	77 ppb

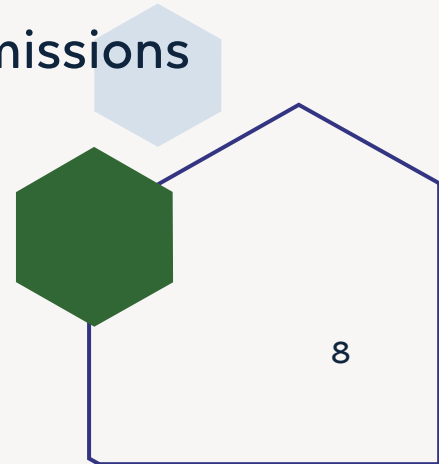
NH continues to see improvements in Air Quality

We are meeting federal standards but still have some days that air quality reaches unhealthy levels (transport)

We are benefiting from nationwide reductions in air emissions

Nearby states (CT, NY, NJ) are still in non-attainment status

Transportation remains the largest source of emissions



2022 Special Air Monitoring Projects



PurpleAir PA-II
\$249.00

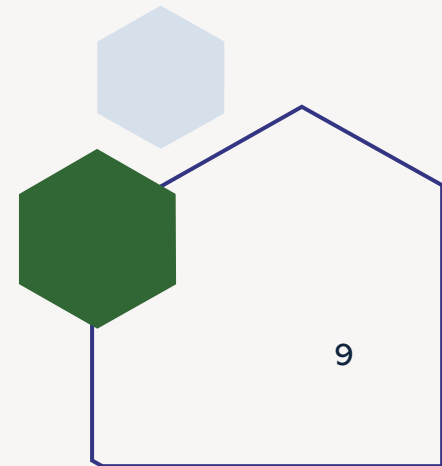
DES has 10 Purple Air Monitors on loan from US EPA Region I

Low Cost, Low Maintenance PM 2.5 Monitors

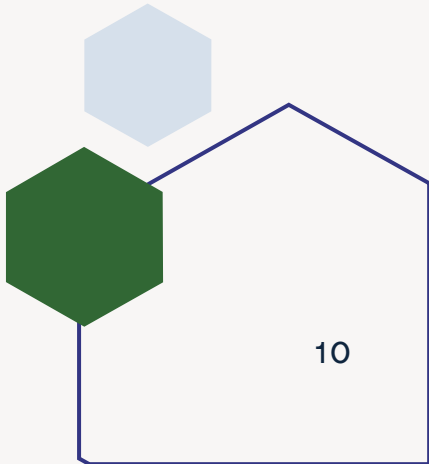
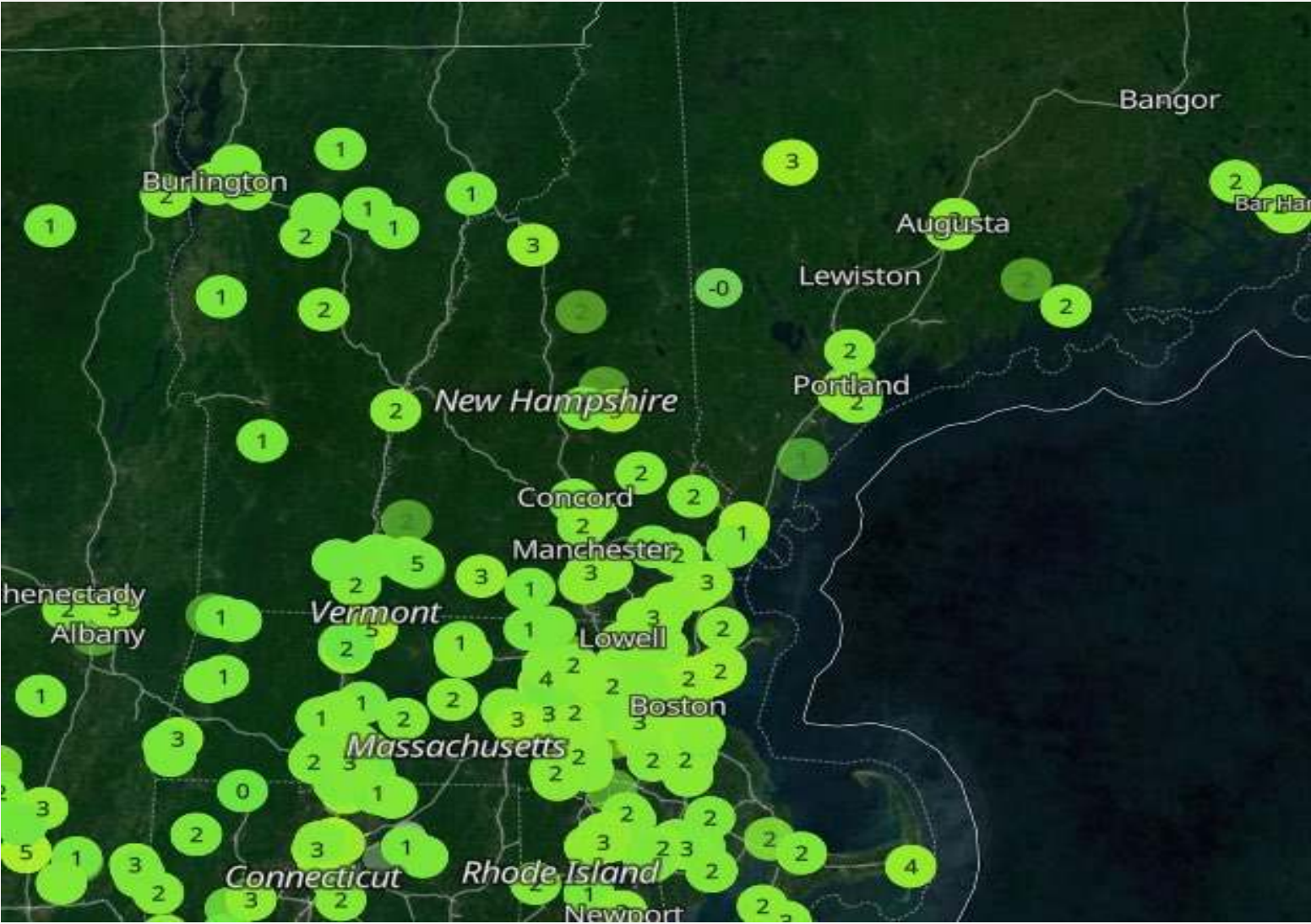
DES has deployed some of the devices in Laconia to monitor woodsmoke

DES has also deployed some of the devices near a train yard in Portsmouth

Prior to deploying DES co-located some of the devices near existing Air Monitoring Stations



Purple Air Monitoring Map in NE

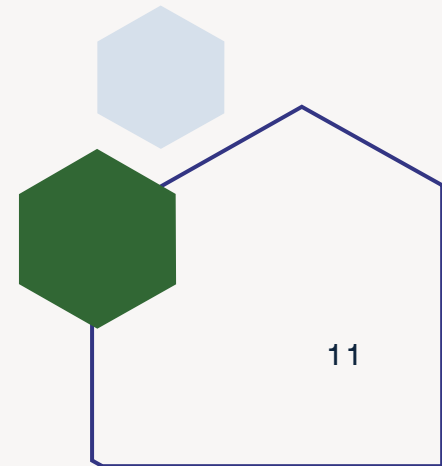


Permitting and Environmental Health Bureau Achievements

Between March 2018 and August 2022 we have seen a 30% reduction in open air permit applications

The “average age” of open air permit applications is improving in both the State Permit and Title V Permit Programs

Our Environmental Health Program works collaboratively across all DES programs, with other state agencies and numerous external partners. The 5 person team has experience in risk assessment, toxicology, epidemiology, health education, and risk communication

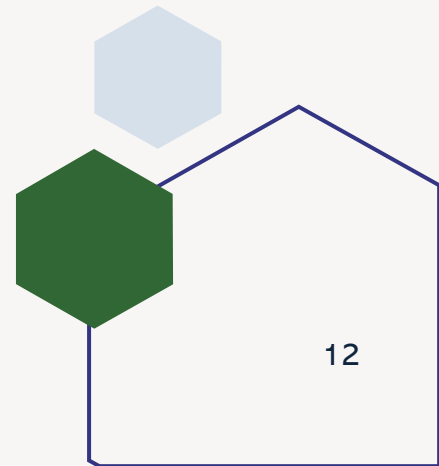


Compliance Bureau Achievements

Recently participated in an EPA State Review Framework Audit of our Compliance related activities (inspections and enforcement)

In FFY 22, completed 78 inspections, witnessed 49 emission stack tests and responded to 81 complaints

Recently completed a significant rewrite of our Env-A 1800 Asbestos regulations – formal rulemaking to commence in October



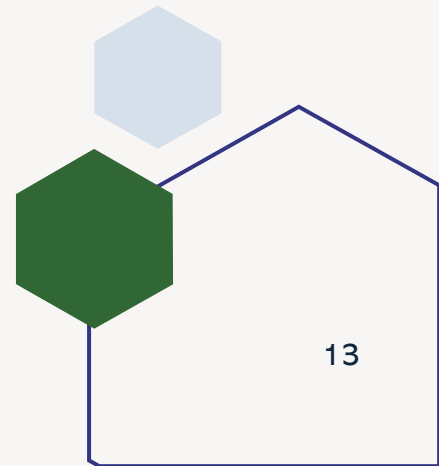
Technical Services Bureau Achievements

Successfully completed an EPA Technical Services Audit of our air monitoring program

In July 2021 DES became the lead agency for the Volkswagen Mitigation Trust - \$30.9 Million

Close to announcing selections for DCFC RFP
Next to focus on Municipal Fleets

Broadening our coordination on transportation and energy issues with other state agencies including DOT, PUC and DOE



Challenges facing the Air Division

Flat funding of our major revenue sources, namely fees and federal funds for 10 plus years is a huge challenge

Flat funding = Less staff over time

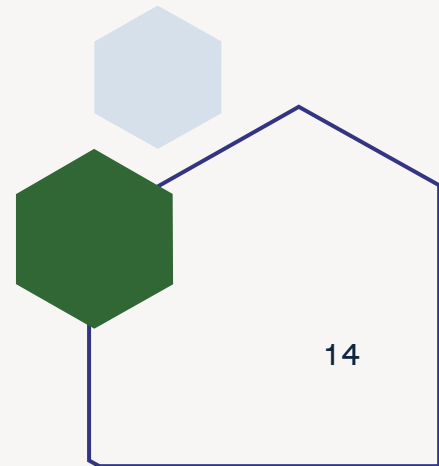
July 2010 – ARD had 84 FT Positions

Today - ARD has 65 FT Positions

As a Division we are getting “long in the tooth”

Anticipate that 12 ARD long serving staff will be retiring soon

Expectations and demands on agency staff is at an all-time high



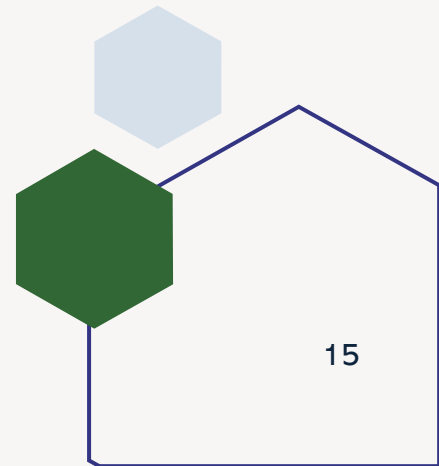
Environmental Justice at DES

EJ is a major component on the federal level in just about every category of our interactions with EPA

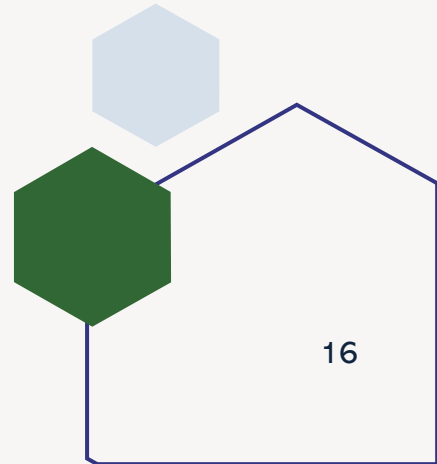
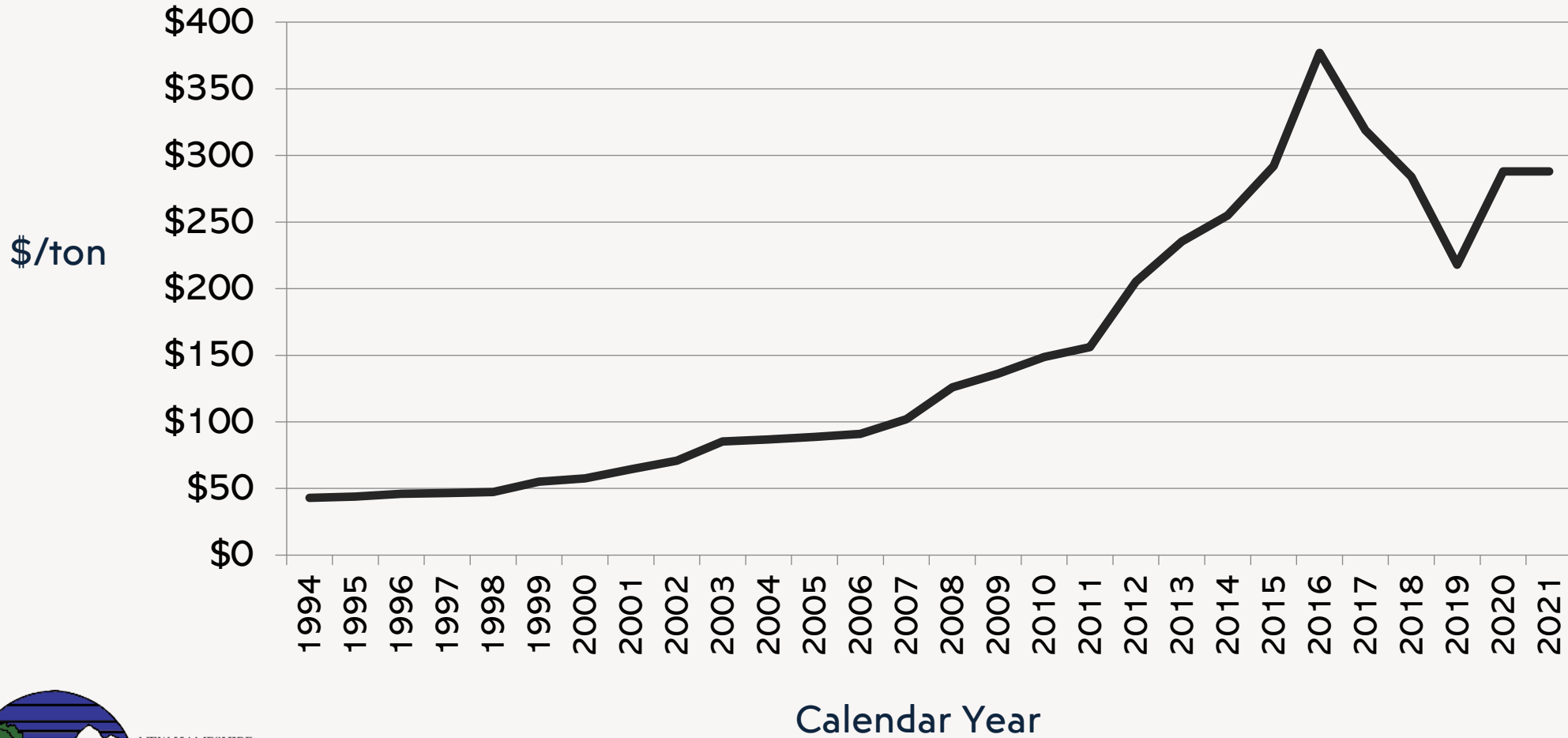
NH does not have any statutes or rules regarding EJ

DES is actively developing a nondiscrimination plan including both Title VI and EJ principles

DES has established an internal team to serve as a resource for program staff in assisting with EJ implementation

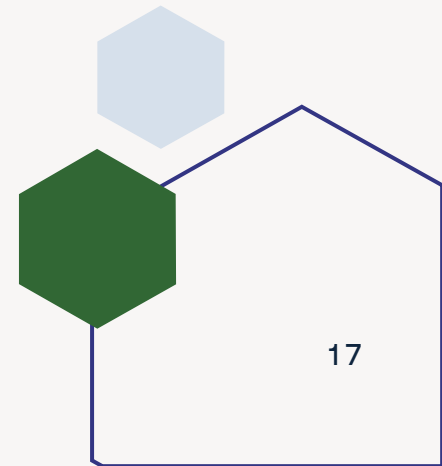
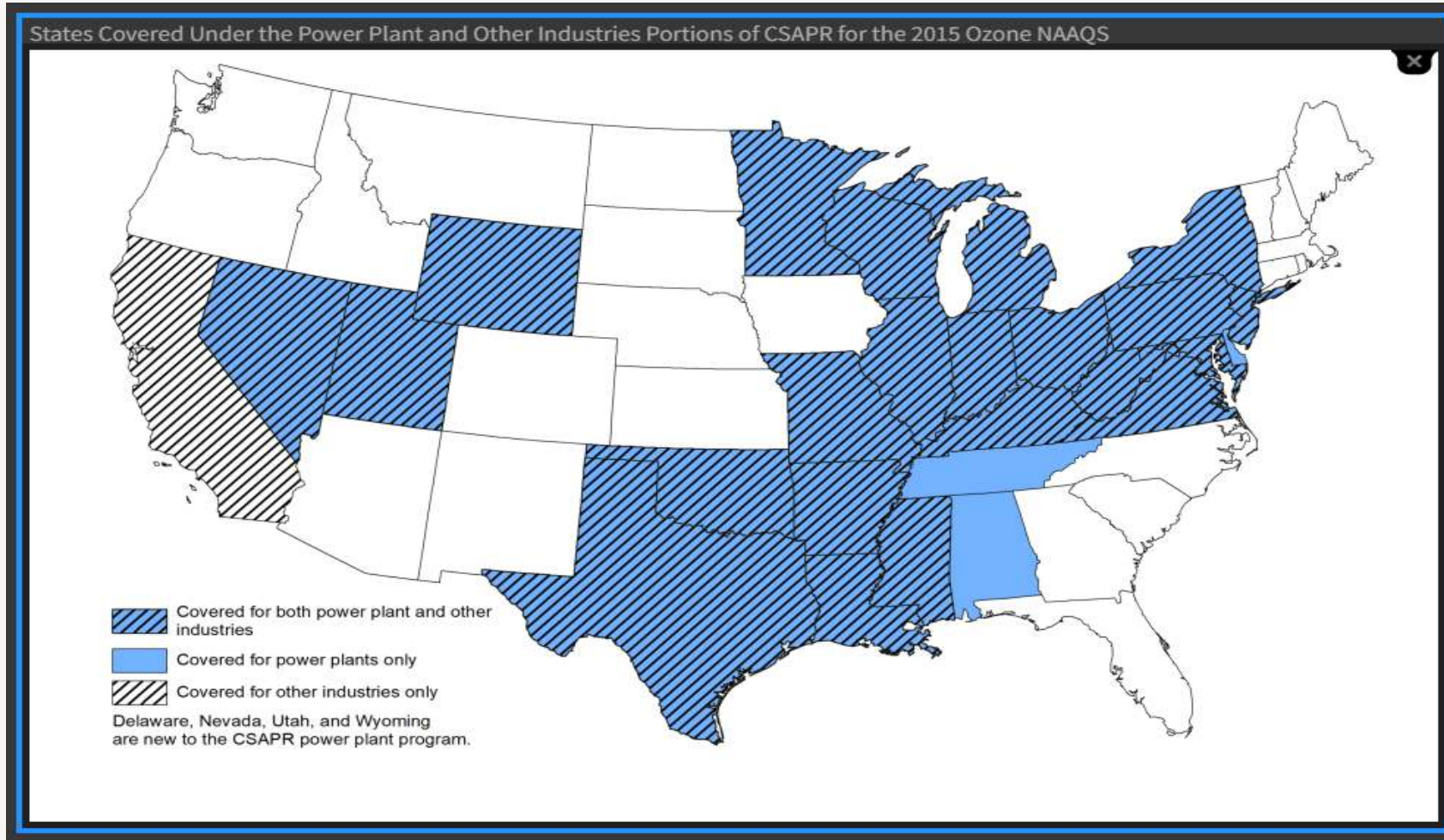


Status of Air Permit Fees



Federal Actions impacting NH

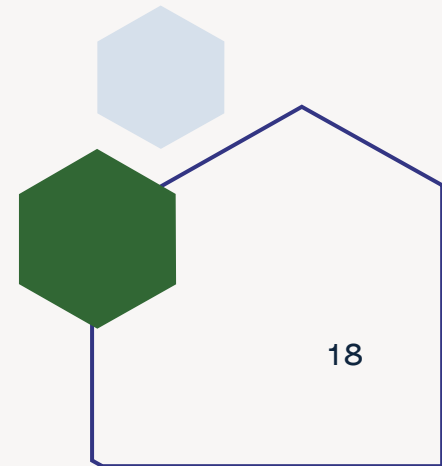
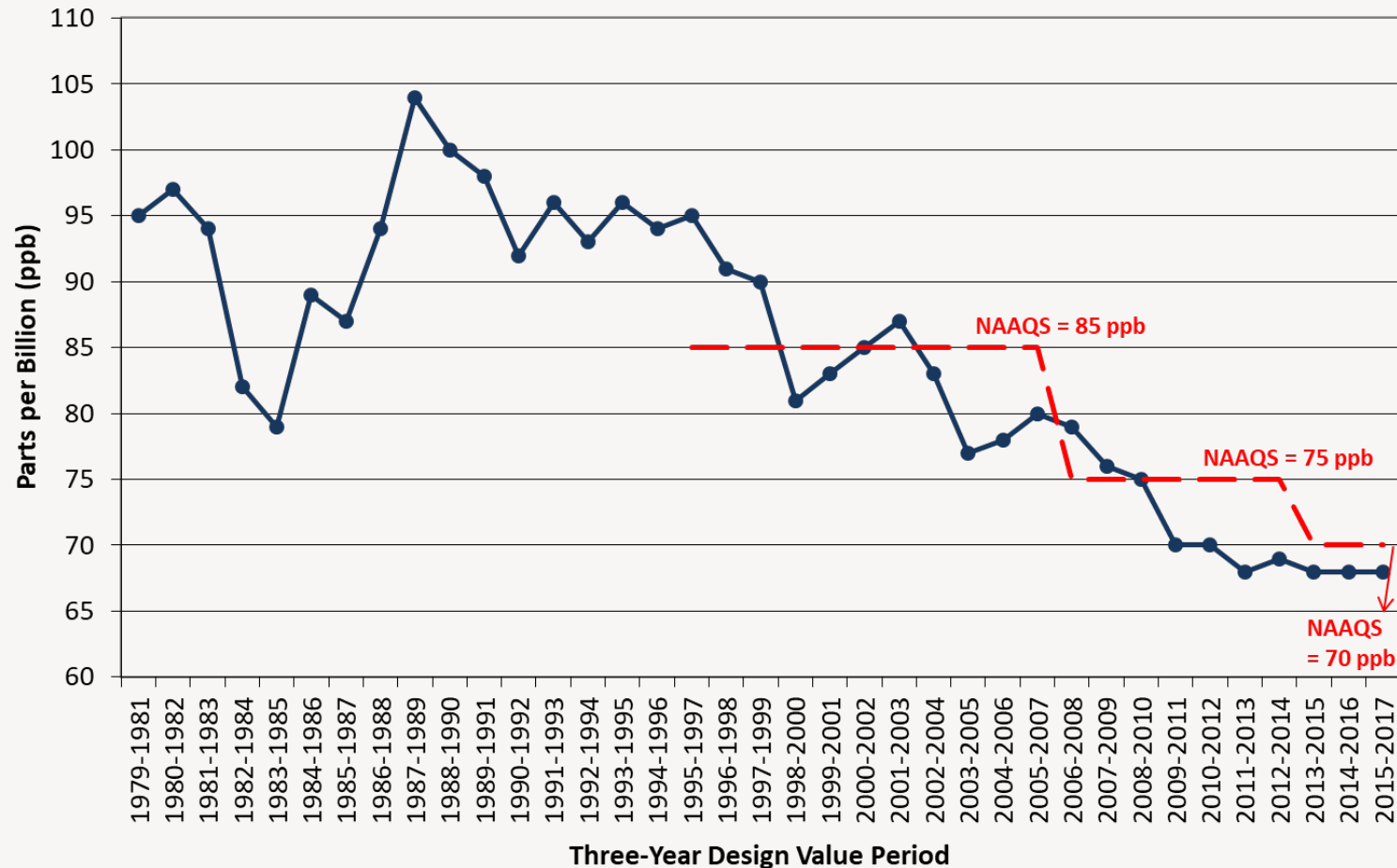
March 2022 - EPA proposed a “Good Neighbor” FIP:



Federal Actions impacting NH (Cont.)

EPA review of the existing PM and O3 NAAQS Standards

New Hampshire Maximum 8-Hour Ozone Design Values



Federal Actions impacting NH (Cont.)

EPA recently issued a “Finding of Failure” to submit a Regional Haze SIP for 15 states

NH is not included but we do have Class 1 areas in NH so we are tracking these other state’s progress

Class 1 Areas in New England:

Great Gulf Wilderness Area (NH)

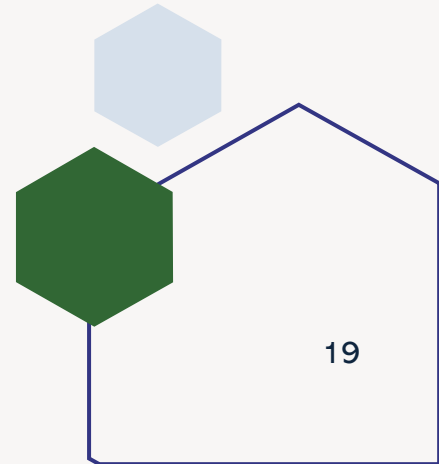
Presidential Range-Dry River Wilderness Area (NH)

Lye Brook Wilderness Area (VT)

Acadia National Park (ME)

Moosehorn Wilderness Area (ME)

Roosevelt Campobello International Park (ME/Canada)





Thank you

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