

# Mississippi Air Updates

A&WMA Southern Section Conference

September 27-29, 2023

Orange Beach, AL

Presented by: Carla Brown

Air Emissions Inventory & Attainment Planning

MS Department of Environmental Quality

# MDEQ's Unique Air Org Chart



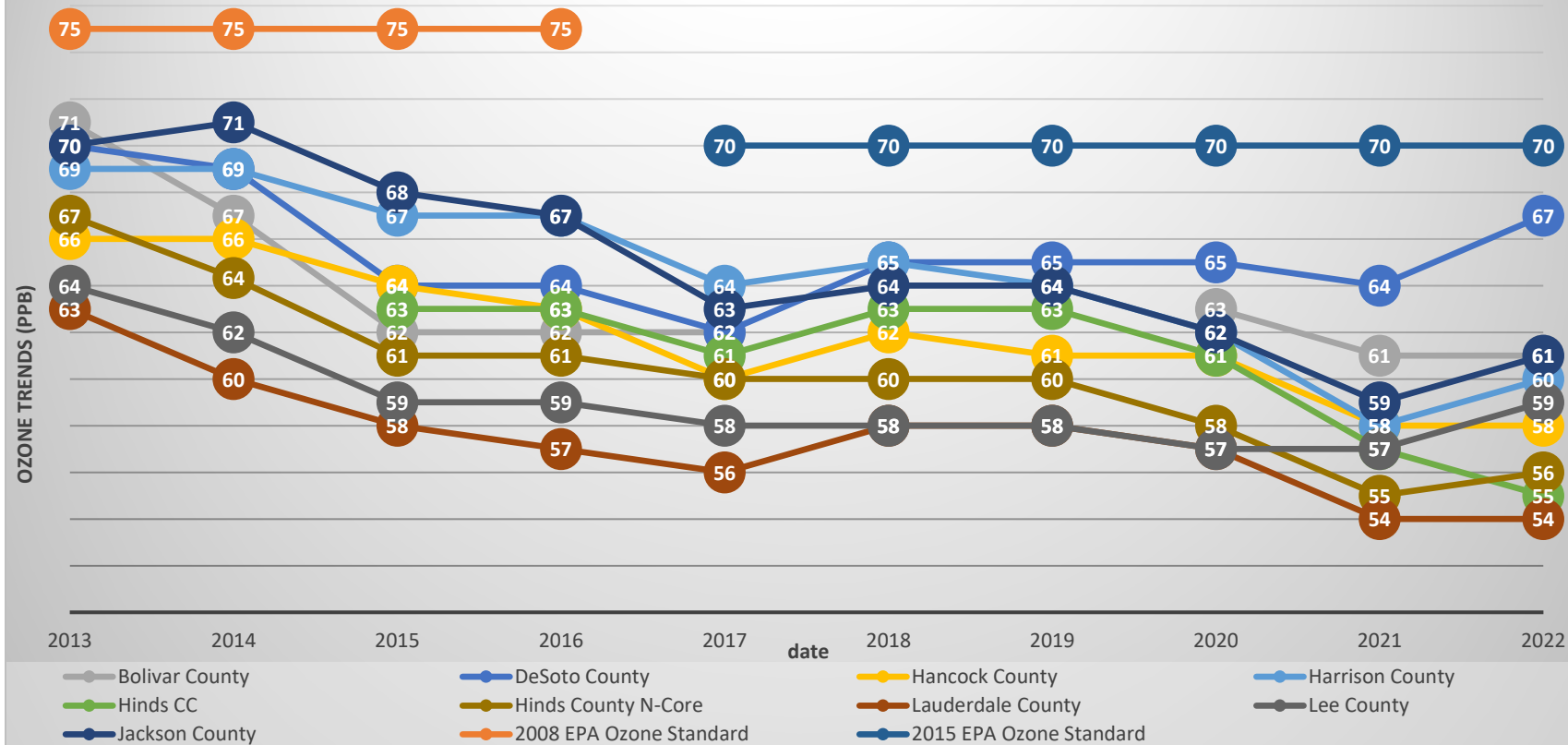


# Air Quality in Mississippi

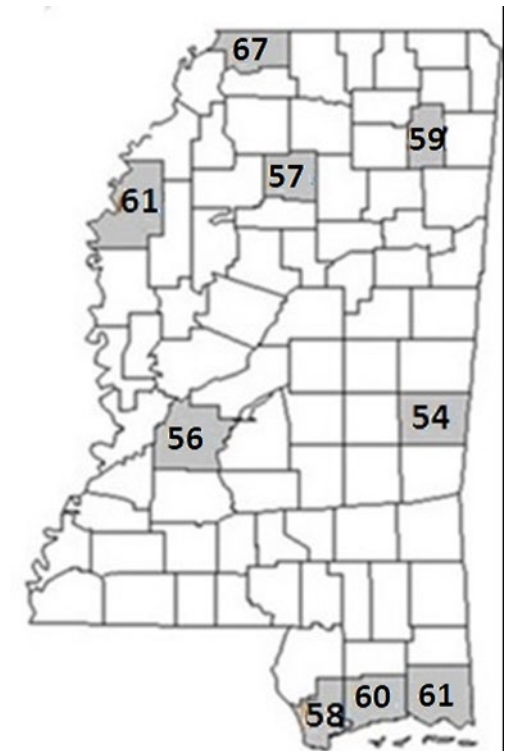


# Ozone Air Quality in Mississippi

10 Year Ozone Monitoring Trends All Mississippi Sites 2013-2022



2022 Statewide Ozone Values



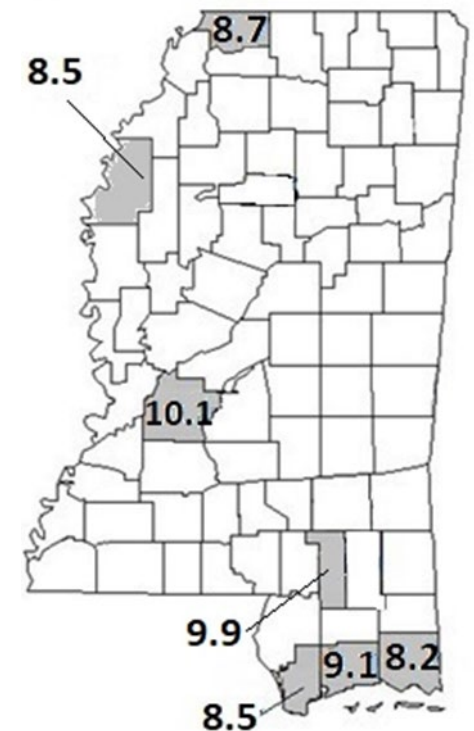


# PM-2.5 Air Quality in Mississippi

10 Year Annual PM<sub>2.5</sub> Monitoring Trends All Mississippi Sites 2013-2022



2022 Statewide PM<sub>2.5</sub> Values



# Attainment for now...

- Memphis MSA is at risk of exceeding the 2015 ozone standard.
- Should any monitor(s) in the Memphis MSA exceed the ozone standard, EPA generally has 3 options:
  1. Work with the State on a voluntary basis to bring the area back to attainment as soon as possible.
  2. Issue a SIP call to require controls to bring the area back into attainment as soon as possible (this does not change the areas attainment designations).
  3. Redesignate the area to nonattainment.
- Shelby County, MDEQ, and Arkansas DEQ accepted into EPA's Ozone Advance Program.
- Work beginning on a "Path Forward" plan.
- 2<sup>nd</sup> 10-year Maintenance Plan for DeSoto County is also underway addressing prior nonattainment with the 2008 ozone standard.

County	2019 4 <sup>th</sup> Max	2020 4 <sup>th</sup> Max	2021 4 <sup>th</sup> Max	2022 4 <sup>th</sup> Max	3-Year Average 19 – 21	3-Year Average 20 – 22	4 <sup>th</sup> High Needed for Violation	2023 4 <sup>th</sup> Max	3-Year Average 21 – 23*
DeSoto Co, MS	66	62	65	75	64	67	73	71	70
Frayser, TN	70	60	67	69	65	65	77	70	68
Marion, AR	64	69	72	71	68	70	70	74	72
Orgill, TN	60	62	63	69	61	64	81	69	67
Shelby Farms, TN	66	62	71	74	66	69	68	75	73

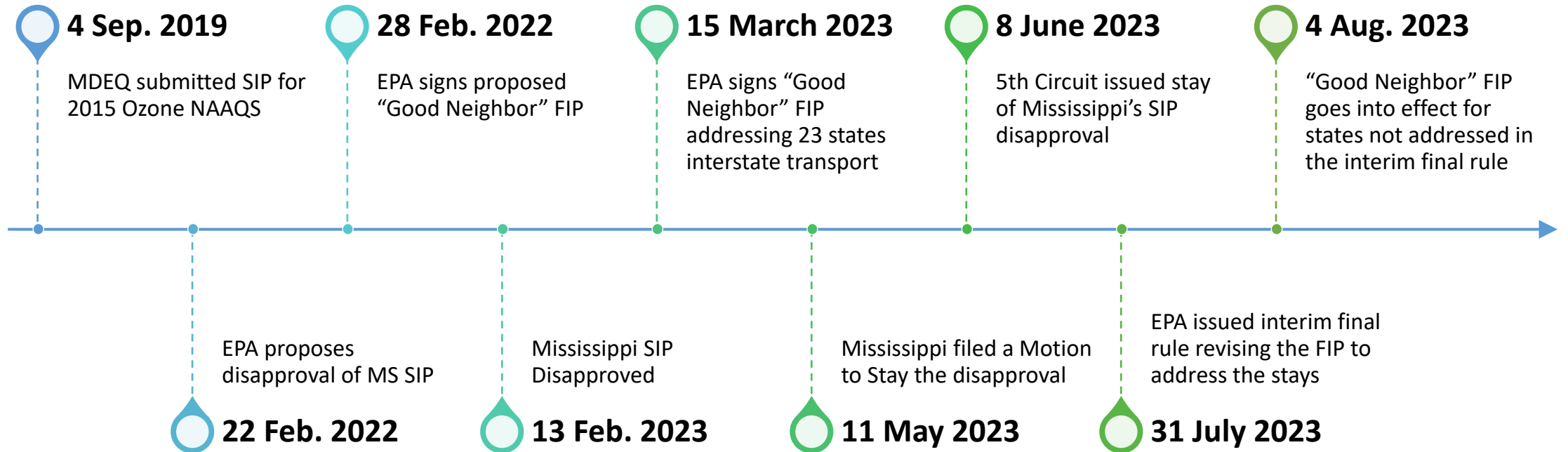


# Regulatory Actions





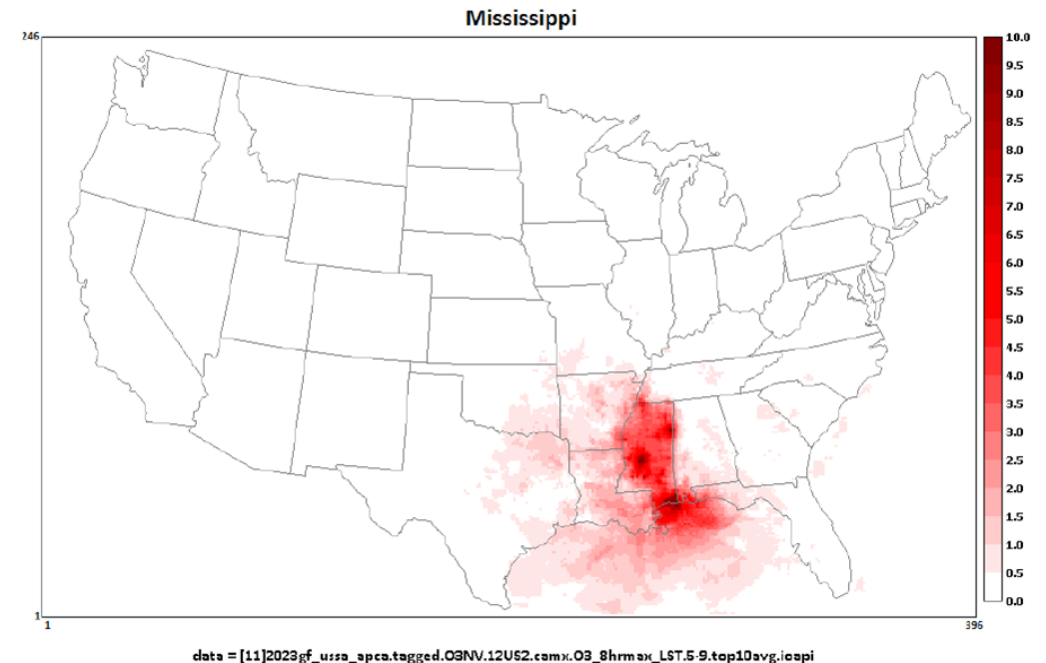
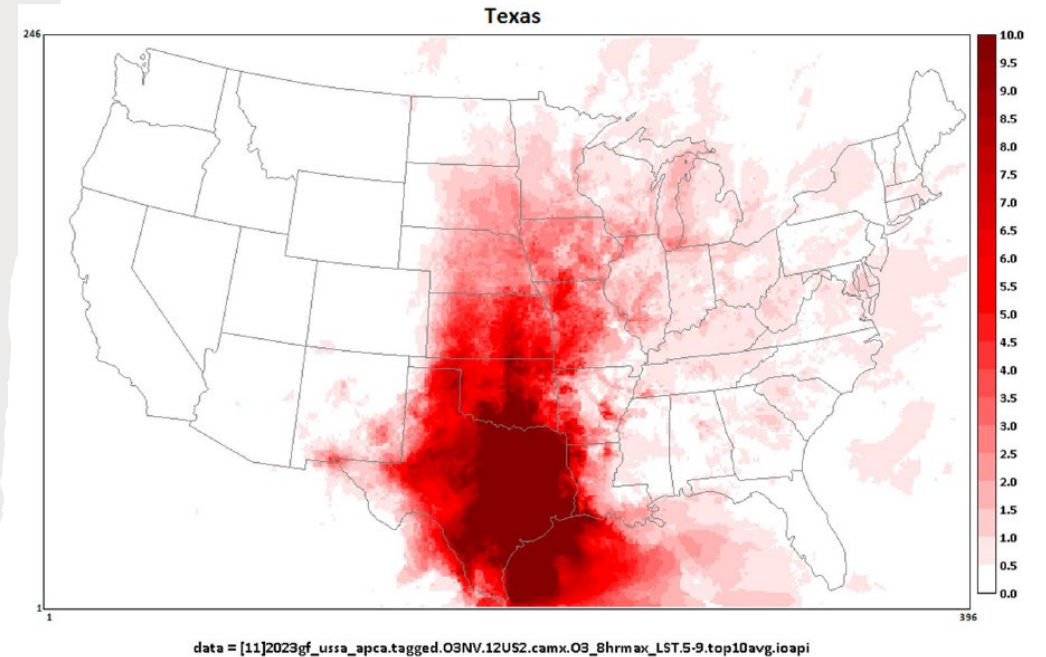
# “Good Neighbor” FIP for the 2015 Ozone NAAQS





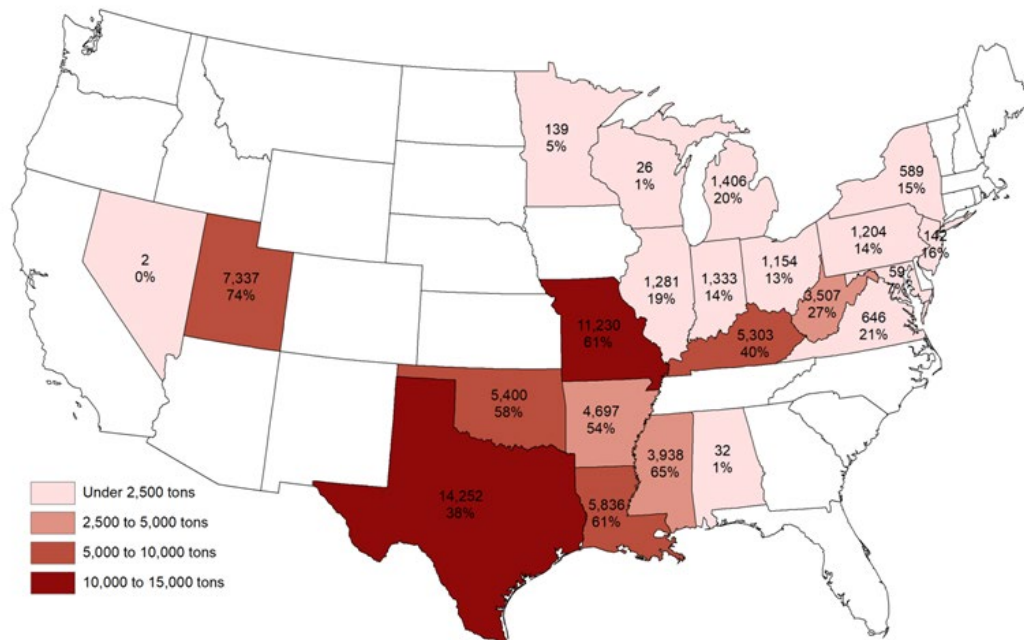
# MS Takes Issue...

- Timing/timeliness (or lack thereof)
- Cooperative federalism?
- 2016v3 modeling released with final FIP
  - First version not released until after draft SIP submittal
  - 3 versions with different results every time
  - Model inaccurate with projections
- FIP is too restrictive on EGU budgets
  - Stranded assets
  - Reliability issues
  - Demand variability
- Non-EGU sources are overcontrolled in MS and reductions are not “meaningful”

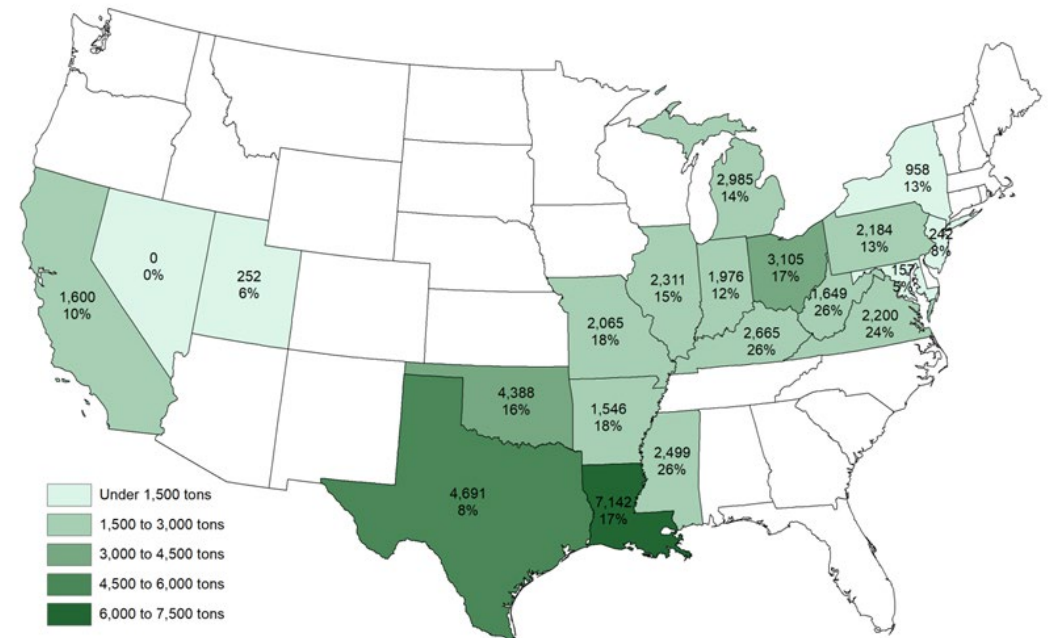


# Estimated Good Neighbor NOx Reductions

## Power Plant Reductions (2027 relative to 2021, Ozone Season)



## Industrial Source Reductions (2026 relative to 2019, Ozone Season)





# Time Commitment to Comment

## MDEQ comments submitted for following rules:

- Mississippi Ozone SIP Disapproval [Proposed 2/22/2022; Finalized 2/13/2023]
- “Good Neighbor” FIP [Proposed 4/6/2022; Finalized June 5, 2023]
- Adoption and Submittal of State Plans under CAA 111(d) [Proposed 12/23/2022; Finalized - TBD]
- PM-2.5 NAAQS [Proposed 1/27/2023; Finalized - TBD]
- NSPS and Emission Guidelines for Electric Generating Unit [Proposed 5/23/2023; Finalized – TBD]
- Air Emissions Reporting Requirements (AERR) Rule [Proposed August 9, 2023; Finalized – TBD]

# Others on the Watch and Wait Watch List



## **Plywood & Composite Wood**

### **Products MACT**

Proposed 5/18/2023

Revises MACT Subpart DDDD



## **Oil and Natural Gas Sector**

### **NSPS / EG**

Proposed 12/6/2022

NSPS OOOOb and Emissions Guidelines in OOOOc



# Miscellaneous



# Title V Fee Schedule Revisions

- Emission portion

- \$37/ton pollutant emitted
- No individual pollutant cap
- Tiered minimum emissions fee for facilities with total emissions < 100 tons

Tiered Minimum Emissions Fee	
Emissions (tons)	Minimum Fee (\$)
0-10	\$370
>10-50	\$1,850
>50	\$3,700

- Complexity portion

- Assessed by “applicable standards” found in 40 CFR Parts 60, 61, 63, and 68

Tiered Maintenance Fee	
Number of Applicable Standards	Maintenance Fee (\$)
0 - 2	\$1,500
3 - 5	\$4,000
> 5	\$10,000

**Comparison:** FY2023 billed 249 facilities for \$4.23 million (\$46/ton)  
FY2024 billed 245 facilities for \$4.34 million (at rates above)



# Climate Pollution Reduction Grant (CPRG)

Air Division of MDEQ is lead agency for CPRG

## Phase I – Planning Grant

- March 1, 2024 - Priority Climate Action Plan
- June 29, 2025 – Comprehensive Climate Action Plan
- June 29, 2027 – Status Report

## Phase II – Implementation Grant

- 30-115 grants from \$2 to \$500 million
- Implement priority measures in one of the following sectors: transportation, electric power, industry, buildings, waste/water/sustainable materials, agriculture, or carbon removal
- Applications due April 1, 2024

Help Needed – Ideas for projects / programs in the works that are implementation-ready

More information available at  
[www.mdeq.ms.gov/air/merp](http://www.mdeq.ms.gov/air/merp)

# Questions?

Carla Brown

[cbrown@mdeq.ms.gov](mailto:cbrown@mdeq.ms.gov)

