

Air Management Study Group Quarterly Meeting

May 6, 2021

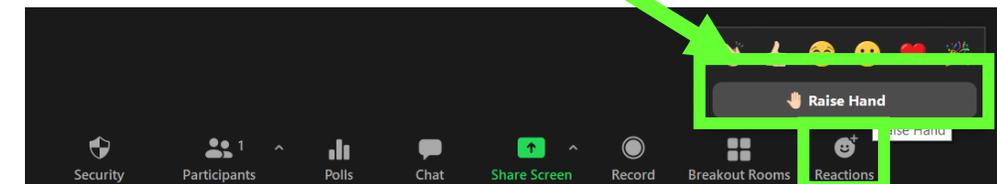
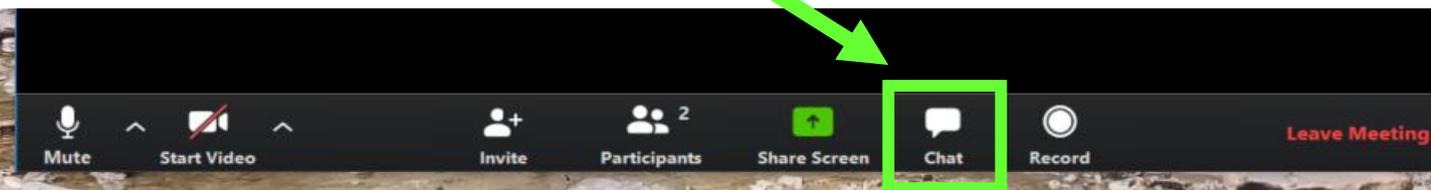
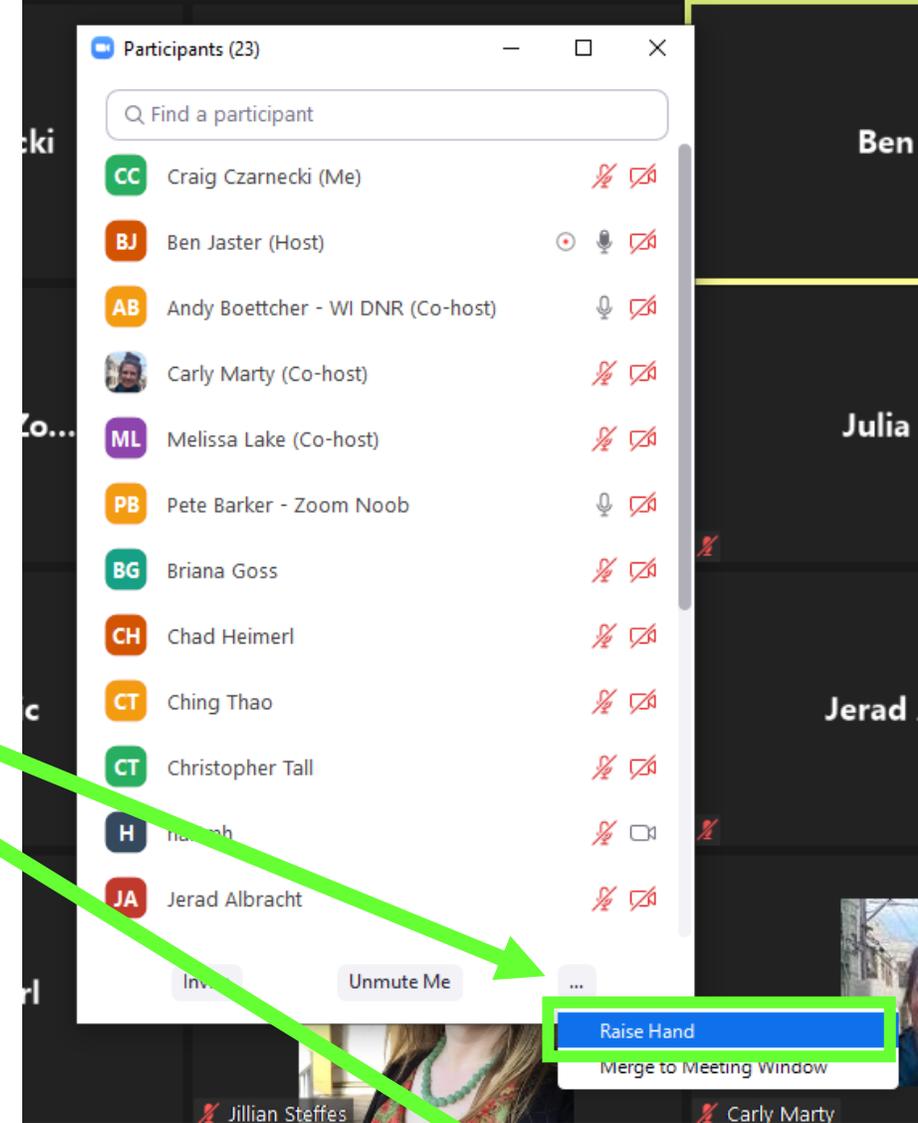
Zoom Guidelines

Hello Everyone,

We've developed some guidelines for this meeting, in the hopes of making this a smooth and enjoyable experience for all. Thank you in advance for your understanding.

Zoom Guidelines

- Questions will be addressed throughout the meeting.
- All participants will be muted and will not be able to unmute themselves.
- If you'd like to speak, use the "Raise Hand" button and you will be unmuted when appropriate. (Alt+Y)
- Questions may also be asked in the chat. The chat is setup so that all messages are sent to the host privately.



Zoom Guidelines

- The host will attempt to respond to all messages received, but some messages may be missed.
- Participants will join the meeting with their video disabled. We ask that you keep your video disabled for the duration of the meeting.

Zoom Guidelines

- We ask for patience while the Air Program conducts this meeting with this setup.
- Zoom technical support: **support.zoom.us**

Governor's Task Force on Climate Change

Lt. Governor Mandela Barnes

Greenhouse Gas Inventory

Brianna Denk
Planning and Standards Policy Coordinator

Wisconsin GHG Emissions Inventory

Air Program is developing two GHG inventories for the state:

- **Step 1 – Default data inventory (2020)**

- This is based on the default data available in EPA's state inventory tool (SIT)
- This inventory could assist the state with identifying general trends and results, but should not be relied upon for long-term policy planning.
- This would apply essentially the same methodology used in the state's last GHG inventory completed by WRI in 2007.
- Inventory years: 2005 and 2017, with trends for 1990 through 2017.
- Published in November 2020.

- **Step 2 – Refined data inventory (2021)**

- Will incorporate state-specific data for specific sectors, such as agriculture, solid waste, and forestry.
- Will involve working with other DNR programs and WI departments.
- Inventory years: 1990 and 2005-2018 as well as projections to 2025 and/or 2030.
 - Align with EPA's annual SIT update, released October 2020.

2020 GHG Emissions Inventory

Default Data Inventory Methodology (2020)

- The default data for Wisconsin was selected in each module of the SIT.
- The tool applied the default data to EPA-supplied emission coefficients to produce results for each module.
- Post processing was conducted outside of the SIT. WDNR did not use EPA's synthesis module to compile results.
- Emissions were attributed to eight commonly referenced economic sectors: agriculture, electricity generation, residential, commercial, industrial, transportation, industrial process, and waste.
- The Land-Use, Land-Use Change, and Forestry (LULUCF) sector is reported separately as it can act as either a net source or a net sink of emissions.

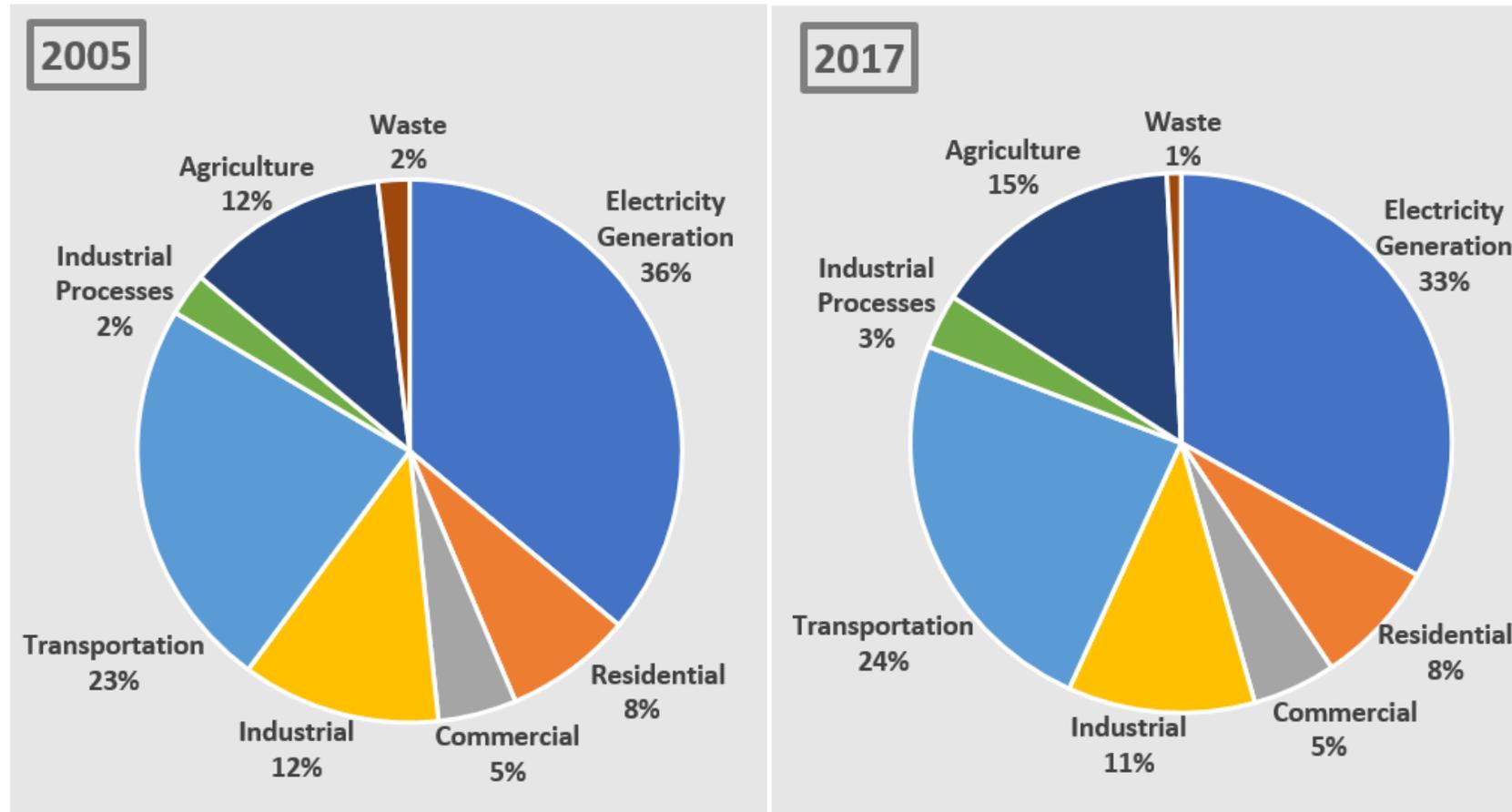
2020 GHG Inventory Report

Wisconsin Emissions by Sector (MtCO₂e)

	2005	2017	Change	
			Amount	Percent
	<i>MtCO₂e</i>		<i>MtCO₂e</i>	
<i>Energy</i>	111.8	98.8	-13.0	-11.6%
Electricity Generation	48.3	40.5	-7.8	-16.1%
Residential	10.2	9.1	-1.1	-10.8%
Commercial	6.2	6.1	-0.1	-1.6%
Industrial	15.8	13.7	-2.1	-13.3%
Transportation	31.3	29.4	-1.9	-6.1%
Industrial Processes	3.4	4.0	+0.6	+17.6%
Agriculture	16.1	18.4	+2.3	+14.3%
Waste	2.5	1.0	-1.5	-60.0%
Total - All Sectors	133.9	122.2	-11.6	-8.7%

2020 GHG Inventory Report

Wisconsin Emissions by Sector



2021 GHG Inventory Work

- Review and evaluate EPA updates to the SIT.
- Work with external partners to evaluate default data sources and supplement them with state-specific data as practical and necessary.
 - Public Service Commission
 - Department of Agriculture Trade and Consumer Protection
 - Other Department of Natural Resources divisions and programs
 - Forestry
 - Solid Waste
 - Wastewater
- Identify opportunities for future inventory improvements.

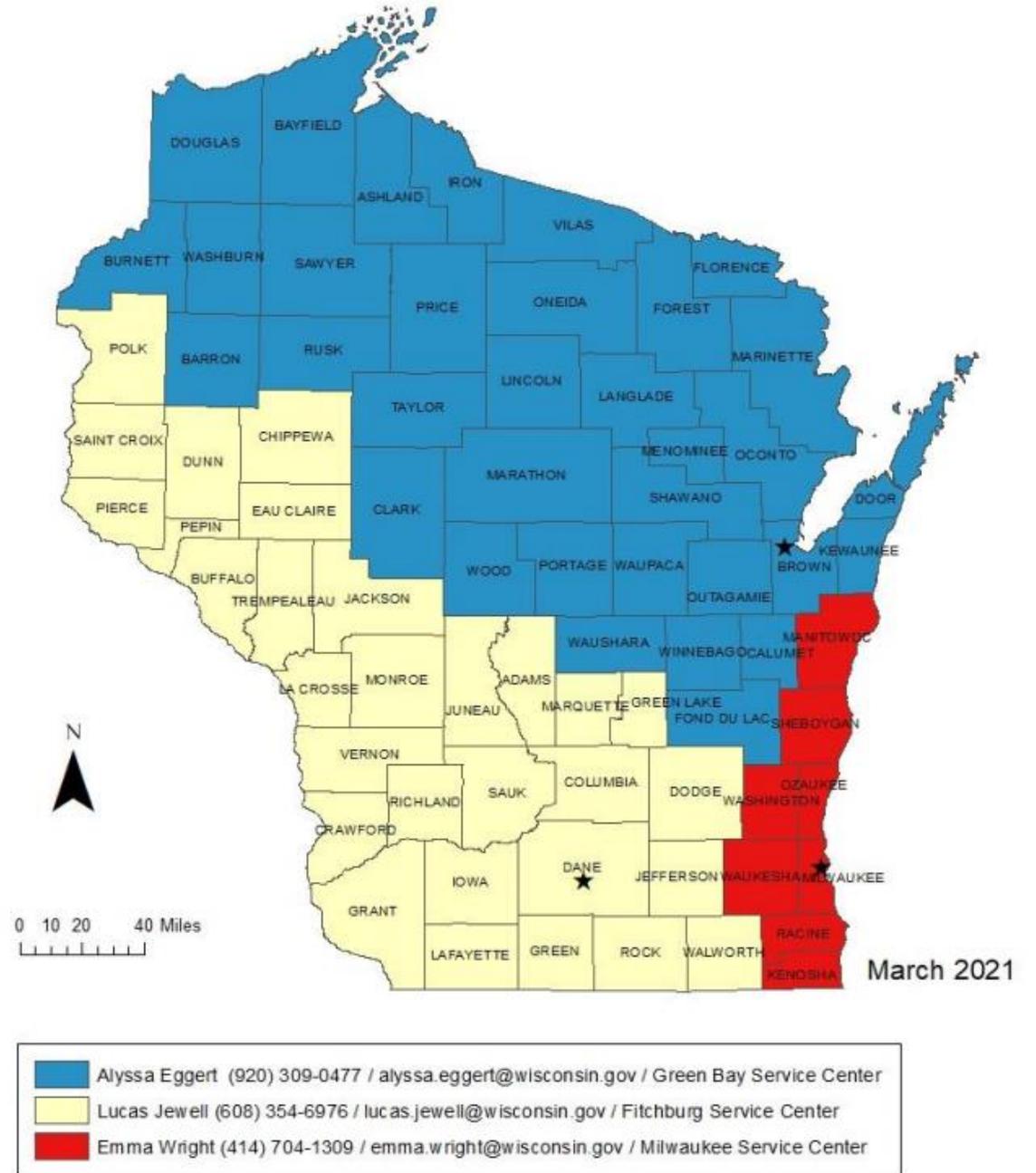
Air Management Study Group Quarterly Meeting Agenda

- Opening remarks
- Governor's Task Force on Climate Change
- Greenhouse Gas Inventory
- Agenda Review
- Hiring update
- Proposed guidance, rules and legislative update
- Budget Update
- EPA/Federal Update
- DERA Grant
- Non-Road Emissions and Stationary Sources
- Purple Air Study
- Member updates
- Ozone Update
- Clean Air Month

Hiring Update

Gail Good
Air Program Director

New Non-CMS Inspector Assignments



Proposed Guidance and Rules Legislative Update

Kristin Hart
Permits and Stationary Source Modeling Section Chief

Gail Good
Air Program Director, Acting Air Quality Planning and Standards Section Chief

DNR Guidance

DNR Guidance in Drafting Phase	Description	Target Date
Municipal Solid Waste Landfills	Updates to guidance for MSW Landfills	Fall 2021
Regulation of Non-road and Motive Engine Testing Operations	Guidance on the stationary source status of different engine testing operations	Summer 2021
DNR Guidance in Public Comment	Description	Date Posted
Next Day Deviations	Guidance on meeting next day deviation requirements	Closed/ Response in development
Finalized DNR Guidance	Location	Final Date
None		

Proposed/Final DNR Rules

Proposed DNR rule	Description	Phase
AM-20-18 VOC RACT Revisions	Updates RACT rules in ch. NR 422 to meet current EPA Guidelines for Miscellaneous Metal and Plastic Parts Coatings, and Miscellaneous Industrial Adhesives, and other updates.	Request adoption - May 26 NRB meeting
AM-10-19 2015 Ozone NAAQS	Incorporates the 2015 ozone NAAQS into state rule and makes related updates. Scope statement approved by NRB in June 2019.	Plan to request adoption – June 23 NRB meeting
AM-31-19 Emissions inventory reporting	Revises NR 438 to align with federal Air Emissions Reporting Rule requirements, resolves inconsistencies between state and federal emissions reporting, and addresses ambiguities in current rule.	Rule drafting

Proposed EPA Rules/Guidance

Proposed EPA rule/guidance	Docket	Comments due
National Emission Standards for Hazardous Air Pollutants: Municipal Solid Waste Landfills Residual Risk and Technology Review; Correction	EPA-HQ-OAR-2002-0047	05/28/21
Perfluoroalkyl and Polyfluoroalkyl Substances Destruction and Disposal	EPA-HQ-OLEM-2020-0527	02/22/2021
California Motor Vehicle Pollution Control Standards; Advanced Clean Car Program; Reconsideration of a Previous Withdrawal of a Waiver of Preemption	EPA-HQ-OAR-2021-0257	07/06/2021

Finalized EPA Rules/Guidance

Finalized EPA rule/guidance	Link	Date finalized
Reclassification of Major Sources as Area Sources Under S. 112 Reverses once-in-always-in applicability or NESHAP	EPA-HQ-OAR-2019-0282	Signed 10/01/20 not yet published
Project Emissions Accounting – affects netting analysis methodology in New Source Review permitting	EPA-HQ-OAR-2018-0048	Signed 10/23/20 not yet published
Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984	EPA-HQ-OAR-2020-0372	01/19/21
Air Quality Designations for the 2010 Sulfur Dioxide (SO ₂) Primary National Ambient Air Quality Standard – Round 4 – Supplemental Amendment	EPA-HQ-OAR-2020-0037	04/08/2021

State Draft and Final Legislation

Draft legislation	Link

Final legislation	Link

Budget Update

Gail Good
Air Program Director

Federal Update

Gail Good
Air Program Director

Sheri Stach
Business Support and IT Section Chief

Kristin Hart
Permitting Section Chief

Federal Update

- [America Rescue Plan Act of 2021](#)
- Michael Regan – EPA Administrator – confirmed 3/10/2021
- Janet McCabe – EPA Deputy Administrator – confirmed 4/27/2021
- Cheryl Newton – EPA Acting Region 5 Administrator
- Vacatures
 - “Adopting Subpart Ba Requirements in Emission Guidelines for Municipal Solid Waste Landfills,” 84 Fed. Reg. 44,547 (Aug. 26, 2019)
 - “Pollutant-Specific Significant Contribution Finding for Greenhouse Gas Emissions from New, Modified, and Reconstructed Stationary Sources: Electric Utility Generating Units, and Process for Determining Significance of Other New Source Performance Standards Source Categories,” 86 Fed. Reg. 2542 (Jan. 13, 2021)

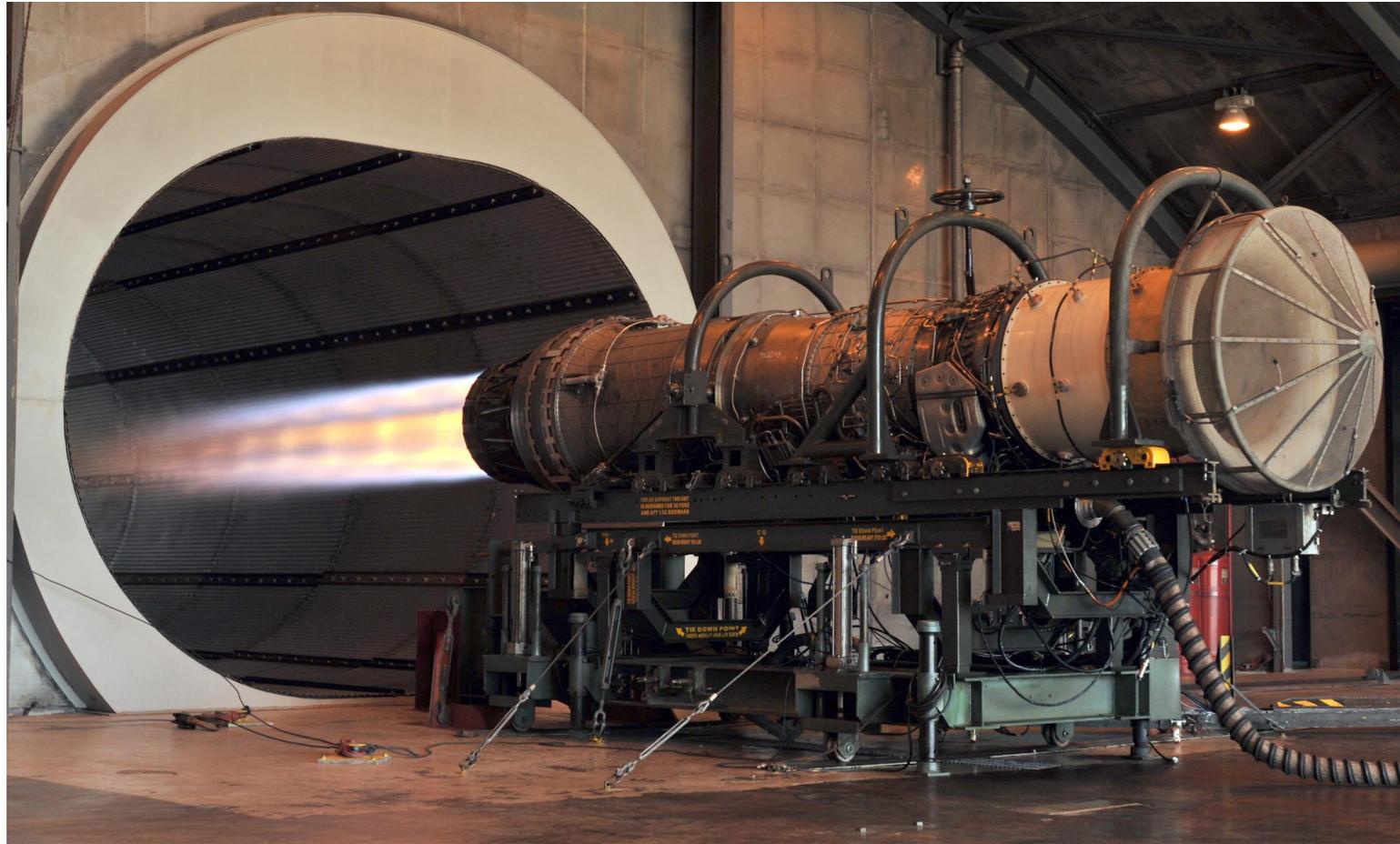
DERA Grant

Sheri Stach
Business Support and IT Section Chief

DERA Grant

- The 2020 Diesel Emissions Reduction Act (DERA) grant program will be open for applications beginning May 12, 2021 through June 23, 2021. Approx. \$385,000 available for eligible projects.
- Eligible are school and municipal buses as well as designated nonroad equipment/vehicles.
- <https://dnr.wi.gov/Aid/CleanDiesel.html>
- Questions regarding this funding opportunity can be directed to DNRCleanDiesel@wisconsin.gov.

Non-Road Emissions and Stationary Sources



Kristin Hart

Permits and Stationary Source Modeling Section Chief

Manufacturing Non-Road Equipment

The Question: are the emissions from testing of non-road equipment during the manufacturing process stationary source emissions?

- Engine performance testing
- Testing during research and development
- Product testing
- Reliability testing
- Other testing

The Air Program is developing a Technical Support Document to clarify which unit operations and activities involved in manufacturing of non-road equipment must be included in stationary source permits

Schedule

Department is drafting a Technical Support Document on regulating emissions from testing of mobile and non-road engines and nonroad equipment.

- Week of May 24, 2021 - Draft TSD available for 21-day public review period
- June 2, 2021 - Stakeholder meeting to review findings and ask questions
- Targeting July 31, 2021 - Review of comments, finalize TSD and begin implementation

Purple Air Study

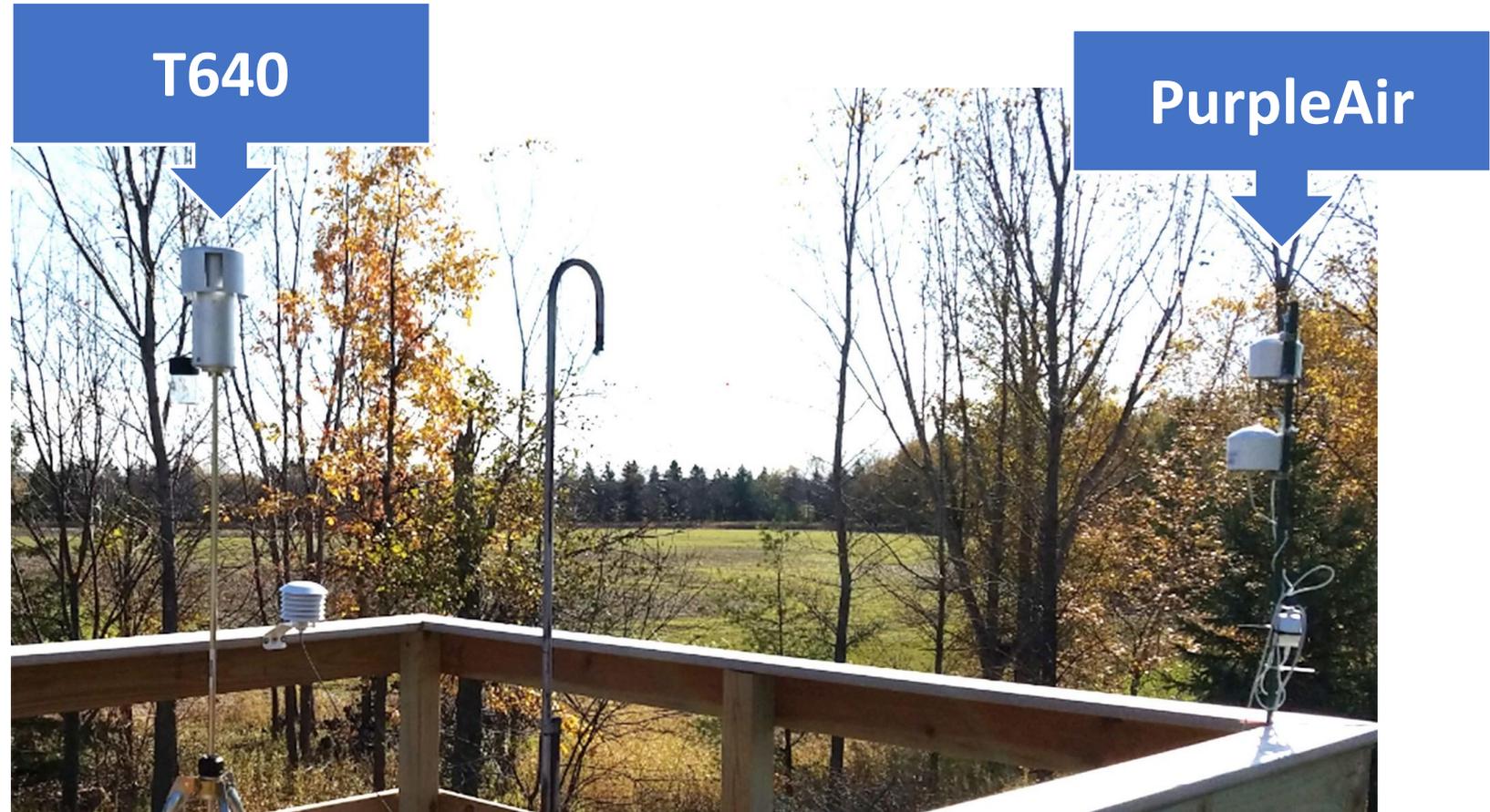
Katie Praedel
Air Monitoring Section Chief

Background

- Interest in Air Quality is gaining momentum
- Air quality sensor technology is becoming more accessible and utilized worldwide
- DNR has been working with community groups in Wisconsin to provide expertise on working with air quality sensors

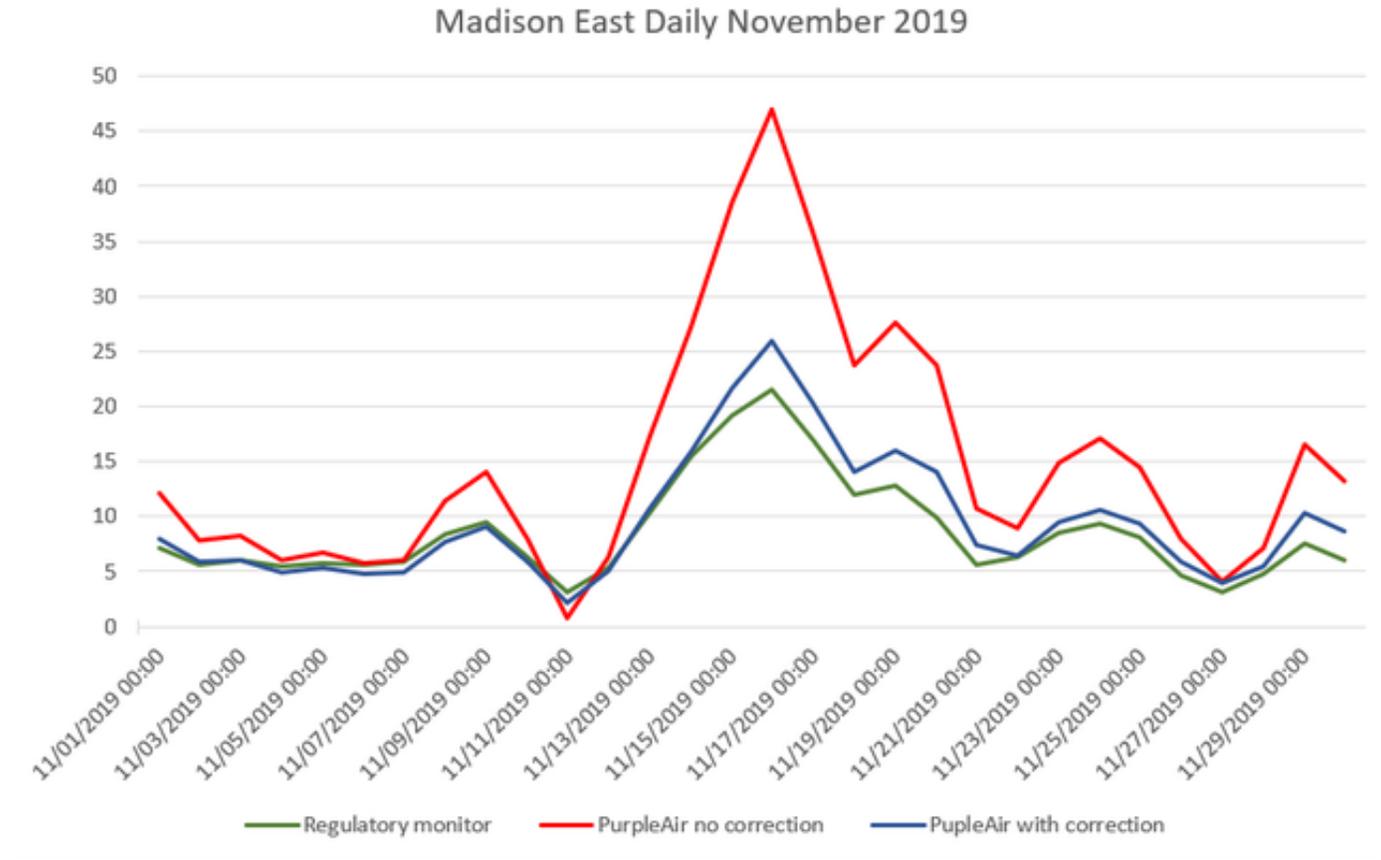
Study Overview

- Year-long collocation study
- Five regulatory monitoring sites
- Pairing regulatory PM2.5 monitors with PurpleAir sensors



Deliverables

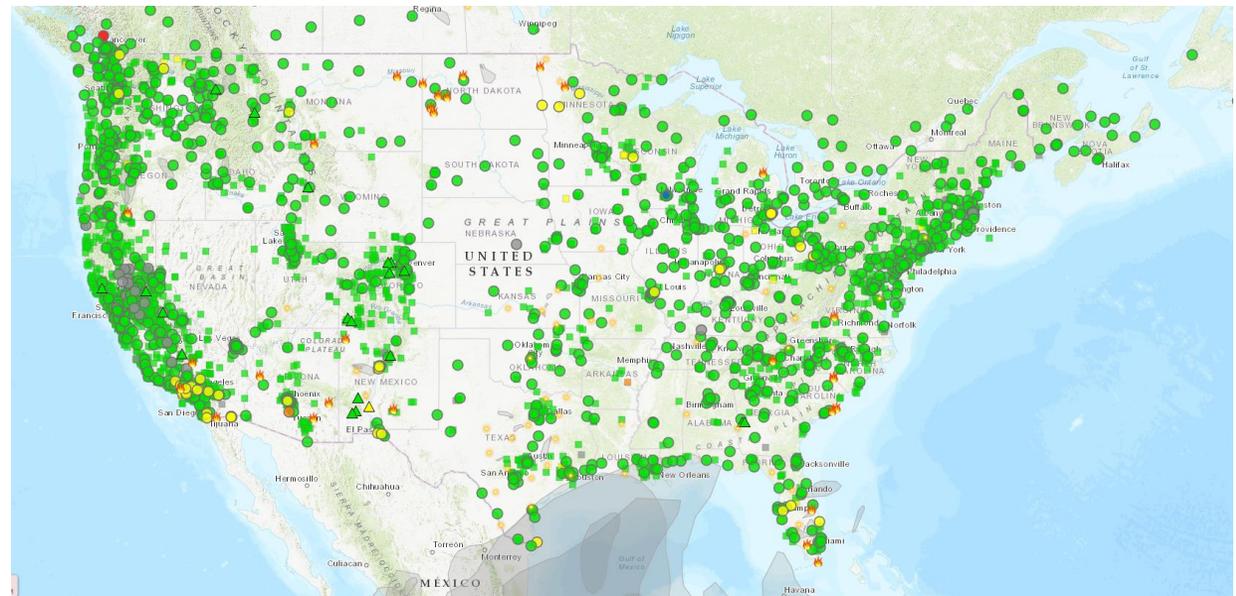
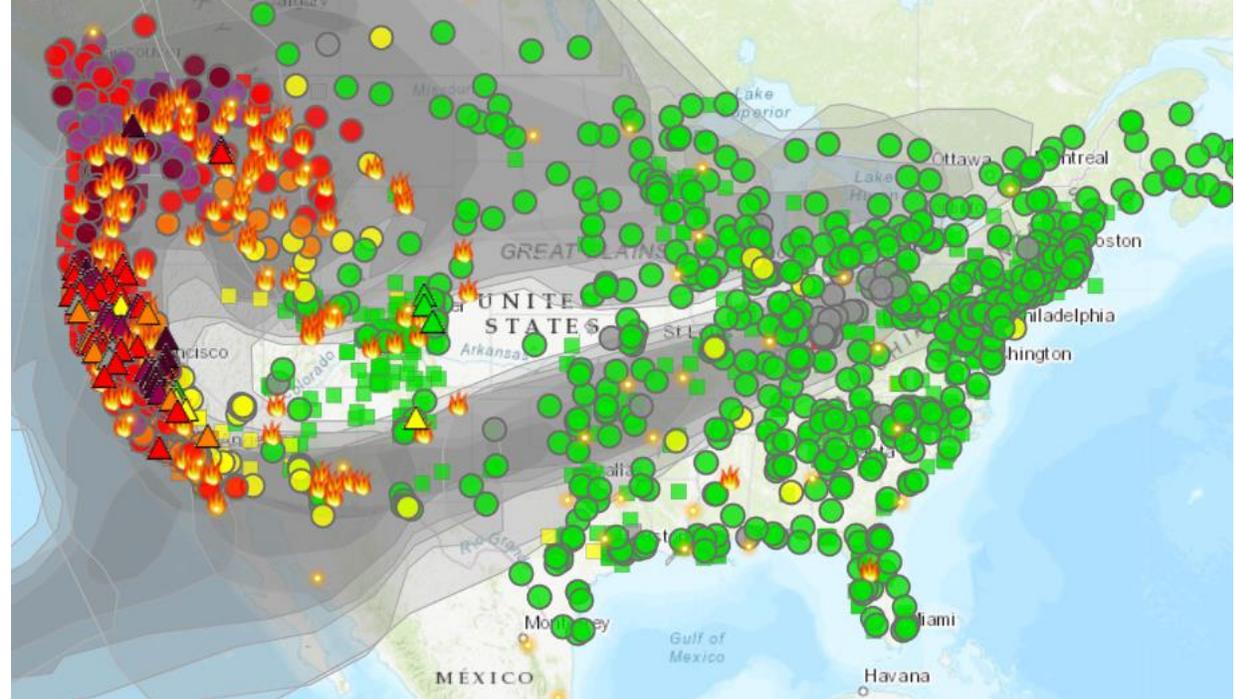
- Correction factor for PurpleAir PM2.5 data
 - PurpleAir is known to display double the concentration of PM2.5 than regulatory values
- More accurate, cost effective crowd sourced data with utility
- Increase public understanding of PM2.5 transport



Deliverables

- EPA's AirNow Fire and Smoke Map used to protect wildfire first responders and the public

<https://fire.airnow.gov/>



Deliverables

- DNR Webpage contains many resources for the public

<https://dnr.wisconsin.gov/topic/AirQuality/Monitor.html>

- Links to EPA and South Coast Air Quality Management District
- Considerations for conducting a monitoring study
- PurpleAir correction factor
- Study plans and details

Member Updates

Ozone Topics

Gail Good
Air Program Director

Katie Praedel
Monitoring Section Chief

Ozone Season Start Up

Wisconsin's 2021 Ozone Monitoring Season

- Most sites operate April 1 and run through Oct 15th
- Kenosha counties operate March 1 – October 31st

New for 2021

- Remote automated weekly verifications
 - Better data capture and more Quality Assurance (QA)
- More frequent meteorological data QA and investment
- Communications with Forecasters

Data Certification

- Data certification is federally required and due to EPA annually by May 1, Wisconsin submitted the complete 2020 data certification packet to EPA on April 22.
- Official process that includes state review of every data point collected throughout the year resulting in a formal statement of data completeness and accuracy followed by a discretionary EPA review



Enhanced Ozone Monitoring Plans

- Starting May 1st
- Focus on Chiwaukee (Kenosha Co) and Sheboygan
 - Pre-Cursor sampling driven by forecasts at both
 - Continuous CO, NOX, NO2, NOY (Chiwaukee only)
- Research partner efforts

Clean Air Month

Craig Czarnecki
Outreach Coordinator

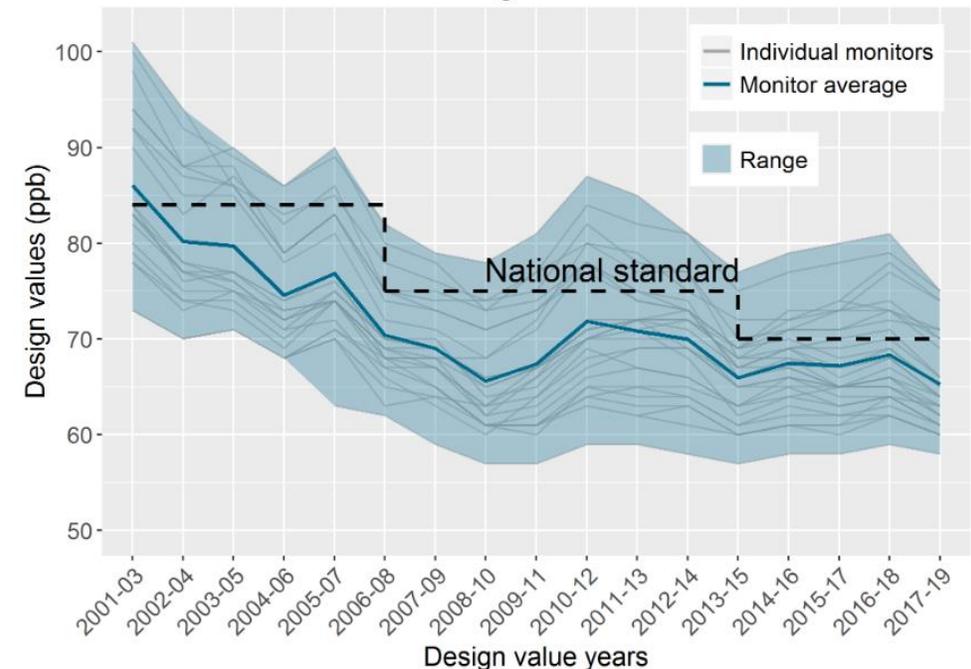


Air Program Highlights

- Permitting and Compliance Assistance
- [Air Sensor Resources](#)
- [2020 Trends Report](#)
- Enhanced Ozone Monitoring



8-hour ozone design values in Wisconsin



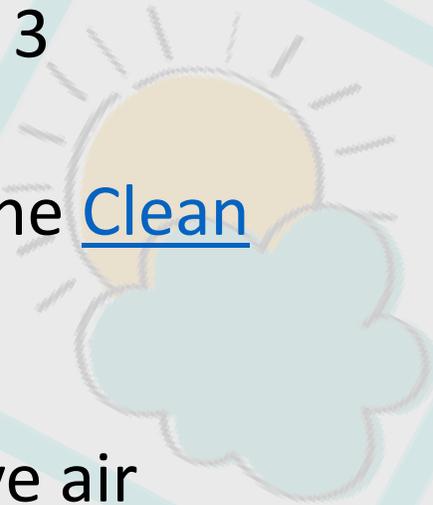
10th Annual Poetry Contest

- Entries accepted through May 7
- Expanded to include parents for students learning from home
- Winners will be announced at the end of the month
- Winning poems will be posted on the [Air, Air Everywhere poetry contest webpage](#).



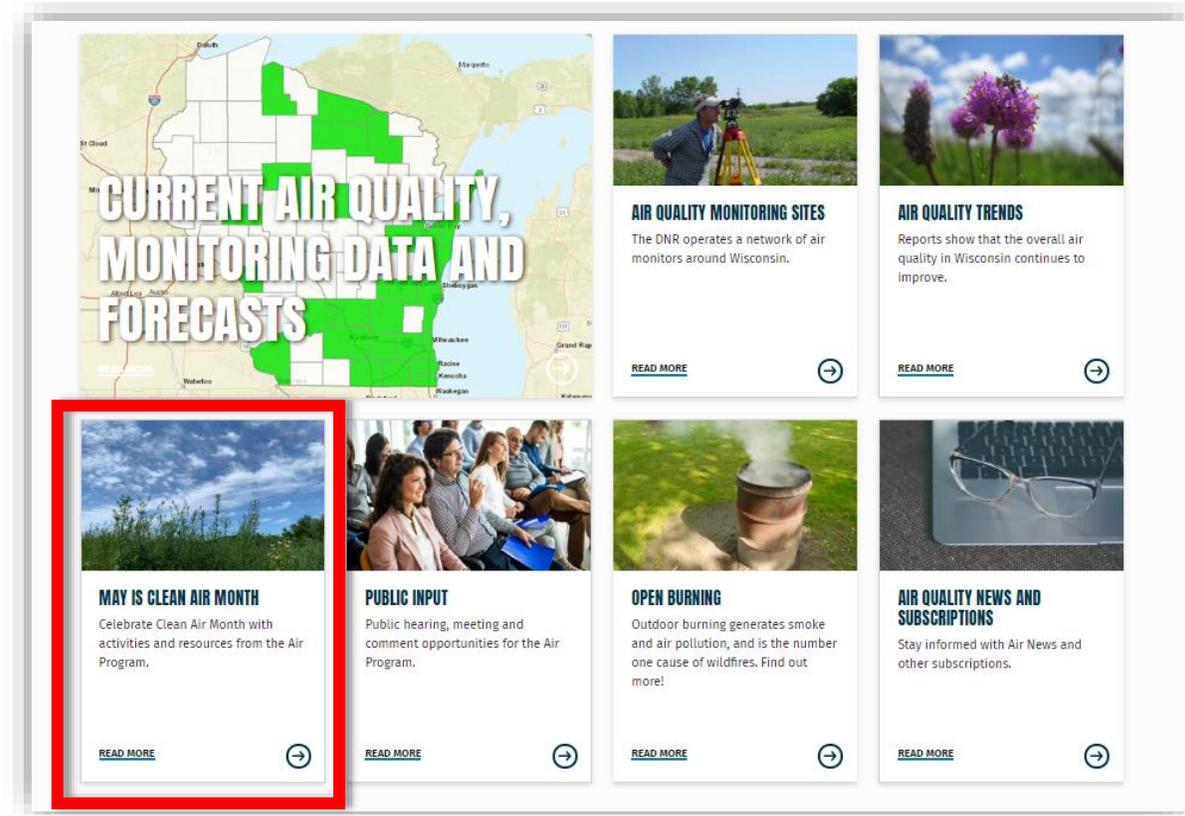
Clean Air Bingo

- Facebook/Instagram post May 3
- Download the Bingo Card on the [Clean Air Month page](#)
- Check off items to help improve air quality in your neighborhood



Clean Air Month Webpage

- Environmental justice
- DNR Media
 - Off the Record Podcast: What 50 Years of Clean Air Looks Like
 - Committed to Clean Air video series
- Get Involved
- Stay Informed



CONNECT WITH US

Next Meetings:

August 5

November 4



/WIDNR



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"WILD WISCONSIN:
OFF THE RECORD"