

Intermountain West Clean Air Act Priorities:

Wyoming

AAPCA 2025 Spring Meeting

May 1, 2025



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First, a bit about Wyoming

Incredible Places

Incredible Mineral Resources

Incredible People



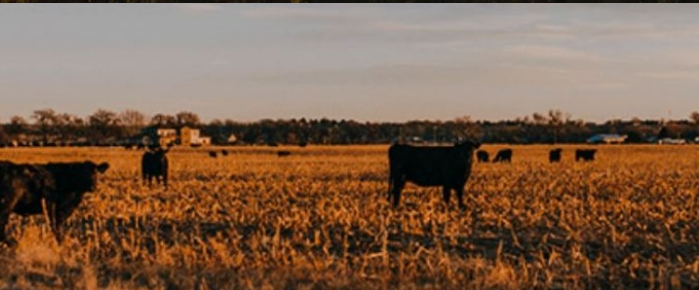
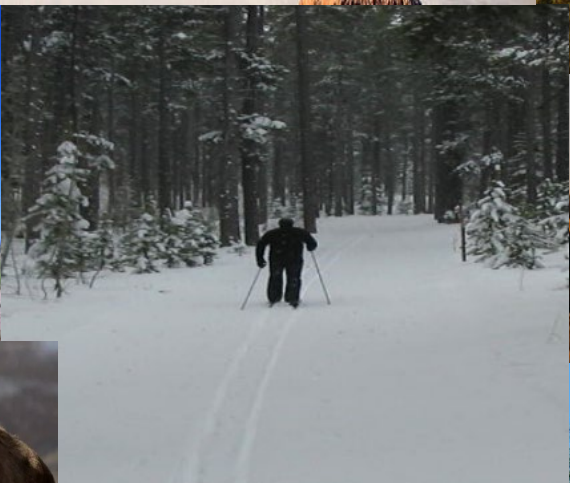
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Wyoming aka “The Equality State”

- Elevation: 3100 to 13,804 feet
- 50th most-populous state: 587,618 (2024)
 - Largest city is Cheyenne: 65,168 (2023)
 - Number of towns >10,000 people: 11
- 47th for Average annual precipitation: 13.3 inches
- 9th largest state: 97,914 square miles
 - Federal gov’t owns 48% of the surface and 68% subsurface
 - Our largest county is larger than VT, NH, NJ, CT, DE, RI
- 1st for Annual average windspeed: 12.9 mph
- 1st for women to vote, serve on juries, and hold office



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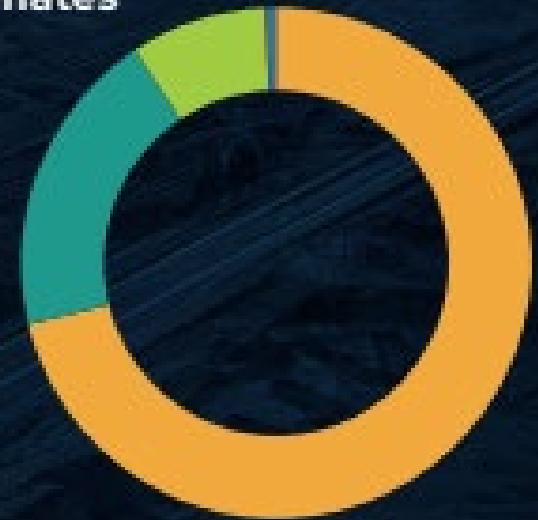


Wyoming Energy Stats (WEA)

Wyoming is the third largest net-energy supplier in the United States. It is the #1 producer of coal, the #7 producer of oil, and the #10 producer of natural gas in the country. Wyoming also holds the largest deposits of trona in the world, the largest deposit of uranium in the United States, and one of the largest known deposits of rare earths under development in North America.

Wyoming Energy Production Estimates

- Coal 71.1%
- Natural Gas - Marketed 19.5%
- Crude Oil 8.6%
- Nuclear Electric Power 0%
- Biofuels 0%
- Wood and Waste 0.1%
- Noncombustible Renewables .6%



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WMA

Wyoming's Coal (WMA)

“Wyoming, the nation’s leading coal producer since 1986, provides about 40% of America’s coal through the top 10 producing mines located in the Powder River Basin”



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WYOMING provides about **41% OF ALL THERMAL COAL** used for electricity production in the **NATION**.

Coal's estimated contribution to Wyoming in 2022 **WAS ABOUT \$563 MILLION** in taxes, royalties and fees, reflecting an **\$83 MILLION, OR 17.3% INCREASE FROM 2021**.

Wyoming has led the nation in coal production since 1986 and **CURRENTLY MINES 41% OF AMERICA'S COAL**.

Wyoming's Uranium (WMA)

- *“Wyoming is the U.S. Leader in uranium production.”*
- In 2020, an estimated 22,000 pounds were produced in Wyoming, and employment was about 120 workers
- In-situ mining process

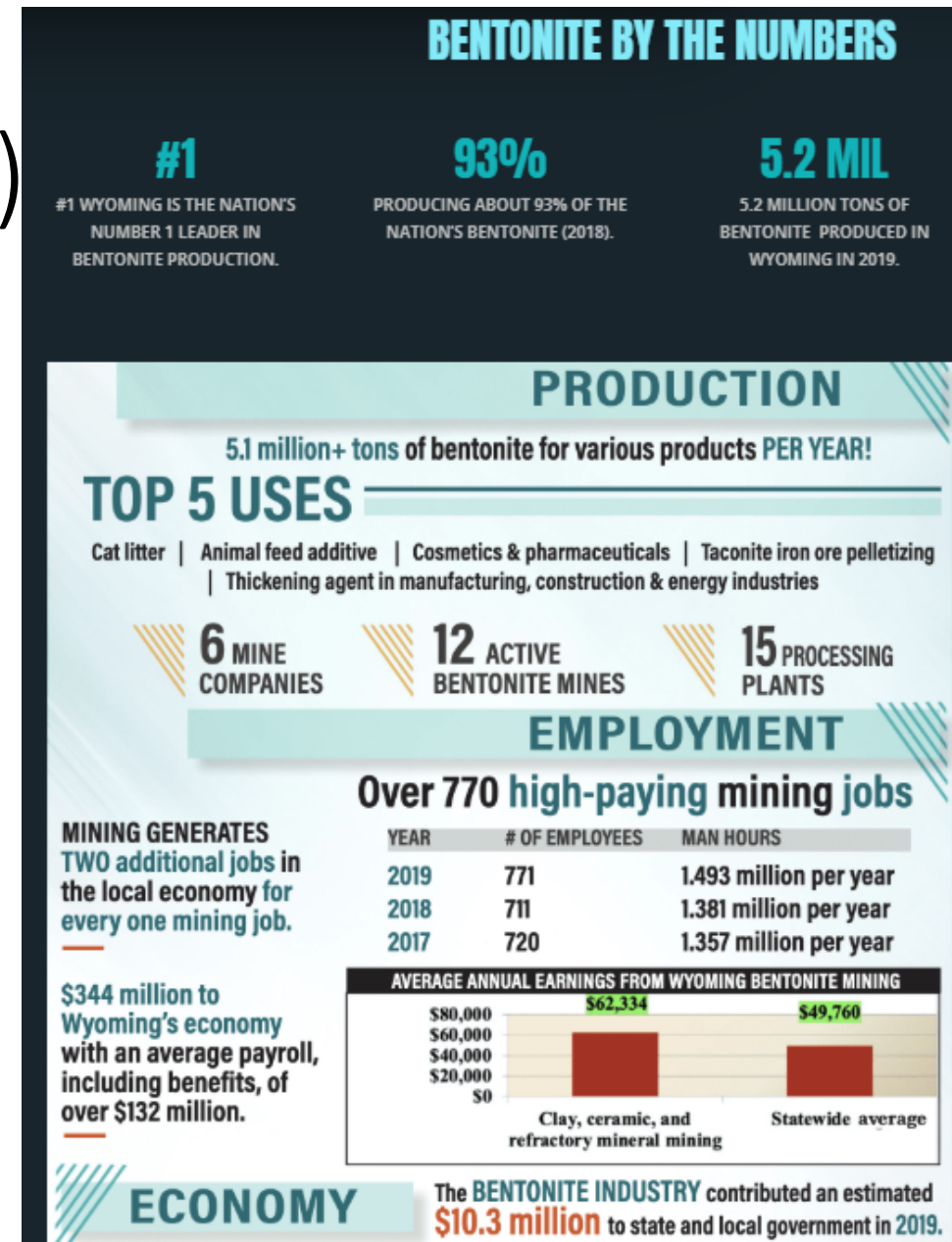


Wyoming's Bentonite (WMA)

- Wyoming has 70% of the world's known supply of bentonite and leads the nation in production



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Wyoming Trona (WMA)

- “Wyoming has the world’s largest deposit of trona, supplying about 90% of the nation’s soda ash.”
- At the current production rate, Wyoming’s trona reserves will last 2,350 years
- Trona is Wyoming’s top international export



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#1 WYOMING'S #1 GLOBAL MINERAL EXPORT.	2,300 WYOMING TRONA INDUSTRY EMPLOYS MORE THAN 2,300 PEOPLE WITH AN AVERAGE PAYROLL, INCLUDING BENEFITS, OF OVER \$100,000 PER EMPLOYEE AND A CUMULATIVE ANNUAL PAYROLL OF MORE THAN \$370 MILLION.	\$4.7 MILLION TRONA ADS \$4.69 MILLION TO WYOMING'S REVENUE ANNUALLY.	75 YEARS WYOMING'S TRONA DEPOSITS HAVE PROVIDED SIGNIFICANT ECONOMIC VALUE TO THE FEDERAL GOVERNMENT AND THE STATE OF WYOMING FOR MORE THAN 75 YEARS.
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WYOMING TRONA INDUSTRY KEY STATISTICS



WORLD'S LARGEST
Concentration of SODA ASH FACILITIES



OVER 2,400
Direct Employees

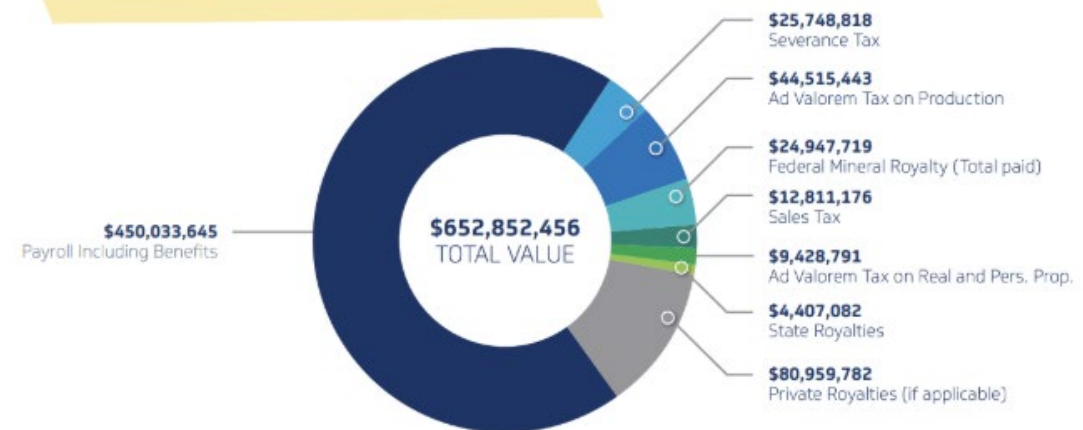
90%
of domestic Soda Ash is produced IN WYOMING

WYOMING'S LARGEST
single export



NEARLY 60%
of our production is exported

2023 WYOMING TRONA INDUSTRY VALUE



Sources: 2024 WMA Industry Survey, 2023 Annual Report of the Wyoming State Inspector of Mines

Wyoming's Rare Earths (WMA)

- *“Northeast Wyoming is home to one of the highest grade rare earths deposits in North America, currently under development.”*
- “Wyoming has the potential to become a major hub for the US Rare Earths Industry”

What are Rare Earths used for?



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Wyoming's O&G

- In 1884, the 1st oil well was drilled; in 1895 the 1st refinery was built; in 1911 the 1st crude oil pipeline
- In 2022, WY ranked 8th in O&G production; and 2nd for production on federal lands
- 21 of Wyoming's 23 counties produce O&G
- WY has 4 operating refineries



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PAW

Against that backdrop, let's look at the executive and legislative branch direction that shapes Wyoming's air quality priorities



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Wyoming's Air Quality Authorities

- Executive Branch
 - Embrace an “all-of-the-above” & “all-of-the-below” energy strategy
 - Encourage responsible and innovative approaches in the use of WY resources
 - Ensure WY wildlife and natural resources are managed for future generations
- Legislative Branch (WS 35-11-102)
 - Prevent, Reduce, and Eliminate Air Pollution
 - Preserve and Enhance Wyoming's Air Quality
 - Exercise and Retain Primacy
 - Secure Cooperation with the Federal Government (EPA & others)



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Wyoming DEQ's Mission

“To protect, conserve and enhance the quality of Wyoming’s environment for the benefit of current and future generations.”



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NEOWISE Comet Observed at the Boulder Station at 03:00 on July 14, 2020

And, now we'll dive into Wyoming's Air Quality Priorities . . .



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Wyoming AQD Priorities

- Cooperative Federalism and Primacy
- Regional Haze (1, 2 & 3)
- CPP 2.0
- O&G Methane Rules
- Ozone
- Particulate Matter
- Resource Adequacy



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Cooperative Federalism and Primacy

- Ensure Environmental Protection AND Economic Growth
- Co-regulator relationship
 - Rebuild trust
 - Toss the false narrative that ‘feds have to step in to protect states’
- Wyoming knows Wyoming Best
- Sensible programs & regulations
 - Right-size – strong & workable & limited to essential requirements
 - Affordable – build in “off ramps”?
 - Accommodate innovation – modernize – CAA of 1990 is 35 yo
- Success Story = Env’t Audit



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Regional Haze – Rounds 1, 2, and 3

- RHR1

- Litigation (10/2023) - 1 item remanded to EPA
- SIP revision – EPA final pending

- RHR2

- Litigation

- RHR3

- Pending EPA action?



CPP 2.0

- WY Comments – August 7, 2023
 - WyPSC – reliability concerns
 - WDEQ – reliability concerns & illegal generation shifting, inadequate implementation timeframe (ex, NEPA)
- EPA Final Rule – May 9, 2024
- Litigation filed – May 9, 2024



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O&G Methane Rules

- 0000b
 - WY Comments
 - WY State Rule IBR
 - Litigation
- 0000c
 - WY Comments
 - Litigation
 - Plans due to EPA by May 7, 2026



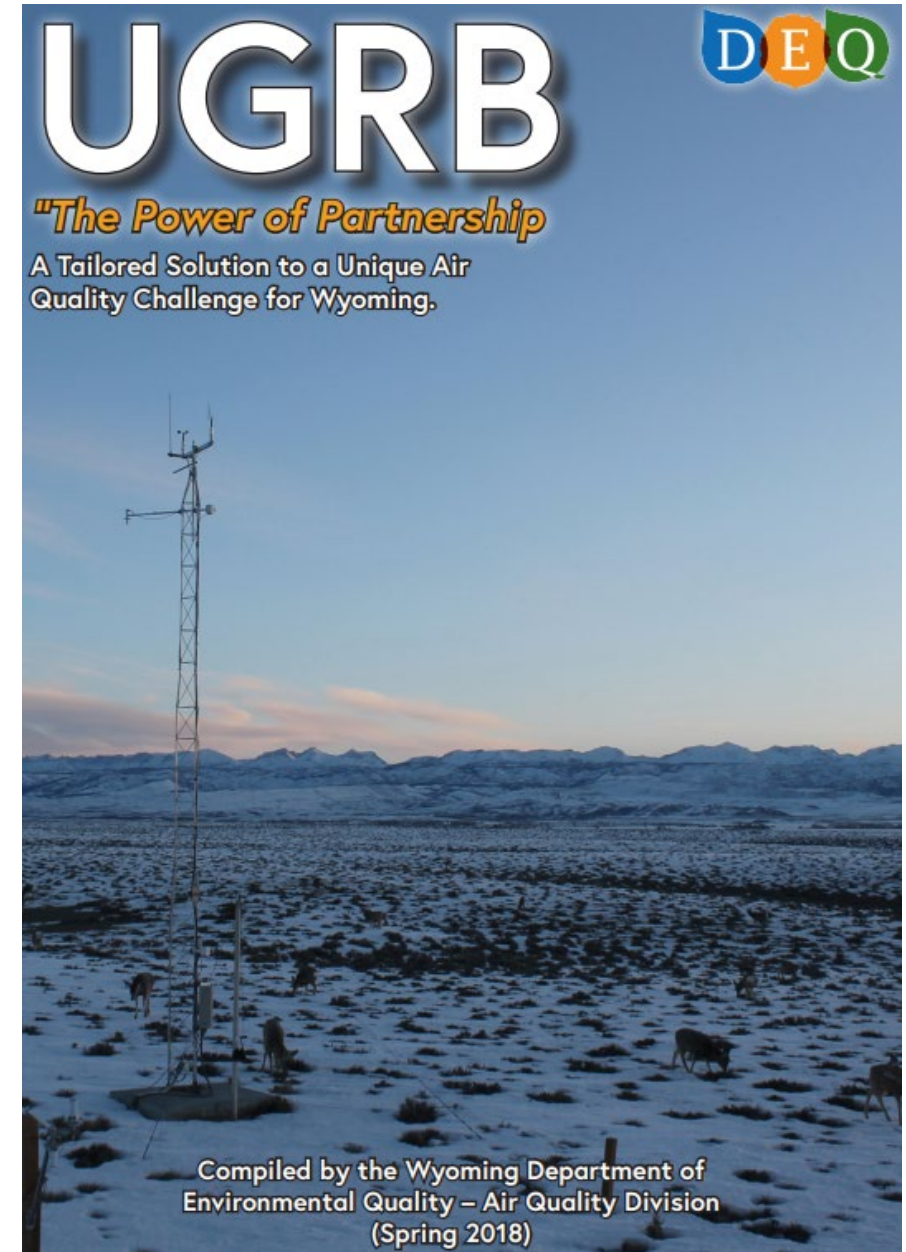
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Ozone

- YES, it is different in the West
 - Background Concentrations
 - Winter Ozone in the Upper Green River Basin (UGRB)
 - 2008 Std - Marginal NAA
 - 2015 Clean Data Determination
 - 2015 Std – Attainment/unclassifiable
 - Infrastructure GNR
- Success: PBACT, Offset Policy, EMA, OTM-52, WYPEC, re-designation effort underway



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Particulate Matter

- EPA Final – March 6, 2024
- Governor submitted recommendation Feb. 7, 2025
- Exceptional Events due in Sept.
 - Smoke
 - High Winds
 - Demonstrations
 - Cost
 - Personnel
- EPA to revisit & release guidance to increase implementation flexibility



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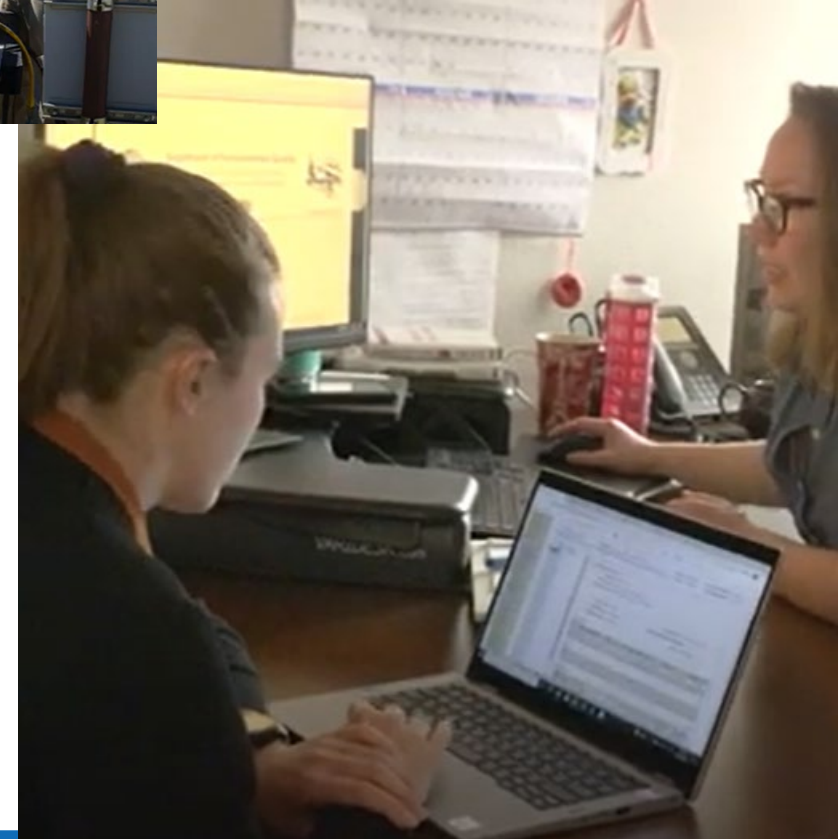
Deane Skinner

Resource Adequacy

- Budget & Funding
 - Fees, grants, state funds, other?
- Staff
 - Extended high vacancy rate
 - Training
- Tools & Technology
 - IMPACT
 - Monitors/WyVisNet
 - AI



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Thank You



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