

# What is Muscatine's Energy Future? A Conversation With Progress Muscatine References



---

This document contains all references and links presented in Progress Muscatine's "What is Muscatine's Energy Future? A Conversation With Progress Muscatine" presentation held on February 6th, 2023.

---

## Guest Speakers:

---

1. Katie Rock - Sierra Club (<https://www.sierraclub.org>)
  2. Terry Dvorak - Red Lion Renewables (<http://redlionrenewables.com/>)
- 

## References (by slide)

---

### Weather and Climate Disasters

1. **National Centers for Environmental Information**, "U.S. Billion-Dollar Weather and Climate Disasters" (2023). <https://www.ncei.noaa.gov/access/billions/>, DOI: 10.25921/stkw-7w73

### Non-Attainment

2. **Environmental Protection Agency**, "Learn about Sulfur Dioxide Designation" (2022). <https://www.epa.gov/sulfur-dioxide-designations/learn-about-sulfur-dioxide-designations>
3. **Environmental Protection Agency**, "Greenbook" (2023), [https://www3.epa.gov/airquality/greenbook/anayo\\_ia.html](https://www3.epa.gov/airquality/greenbook/anayo_ia.html)
4. **United State Code**, "Part D—Plan Requirements for Nonattainment Areas subpart 1—nonattainment areas in general" (2013), <https://www.govinfo.gov/content/pkg/USCODE-2013-title42/html/USCODE-2013-title42-chap85-subchapl-partD.htm>

### Energy Independence

5. **Progress Muscatine**, "Energy Independence" (2023), <https://progressmuscatine.org/energy-independence>

### Coal

6. **US Energy Information Administration**, "Monthly Energy Review" (May 2022), <https://www.eia.gov/totalenergy/data/monthly/>

7. **Rocky Mountain Institute**, A. Benn, P. Bodnar, J. Mitchell, J. Waller, "*Managing the Coal Capital Transition: Collaborative Opportunities for Asset Owners, Policymakers, and Environmental Advocates*" (2018), page 30. <http://www.rmi.org/insight/managing-coal-capital-transition/>

## Coal Ash: Muscatine

8. **Iowa Capital Dispatch**, R. Zullo, "*Coal plant operators shirking responsibilities on ash cleanup, report contends*" (2022), <https://iowacapitaldispatch.com/2022/11/03/coal-plant-operators-shirking-responsibilities-on-ash-cleanup-report-contends/>
9. **Earth Justice & Environmental Integrity Project**, "*Poisonous Coverup Widespread Failure of the Power Industry to Clean Up Coal Ash Dumps*" (2022), <https://environmentalintegrity.org/wp-content/uploads/2022/10/Poisonous-Coverup-11.03.22.pdf>

## Coal Ash: Federal Level

10. **Environmental Protection Agency**, "*EPA Announces Latest Actions to Protect Groundwater and Communities from Coal Ash Contamination*" (2023), <https://www.epa.gov/newsreleases/epa-announces-latest-actions-protect-groundwater-and-communities-coal-ash>
11. **Environmental Protection Agency**, "*Disposal of Coal Combustion Residuals from Electric Utilities Rulemakings*" (2023), <https://www.epa.gov/coalash/coal-ash-rule>
12. **Environmental Protection Agency**, "*EPA Announces Latest Actions to Protect Groundwater and Communities from Coal Ash Contamination*" (2023), <https://www.epa.gov/newsreleases/epa-announces-latest-actions-protect-groundwater-and-communities-coal-ash>

## Coal Ash: Ames, IA (Community Utility)

13. **City of Ames Electrical Services**, D. Kom, "*City of Ames: Power Plant Unit #7 and #8 Fuel Conversion*", (2015), [https://cdn.ymaws.com/members.iamu.org/resource/resmgr/Conference\\_Archives/EnergyConference2015/Don\\_Kom.pdf](https://cdn.ymaws.com/members.iamu.org/resource/resmgr/Conference_Archives/EnergyConference2015/Don_Kom.pdf)
14. **The Gazette**, B.J. Miller, "*Toxic pollutants leaking from 12 Iowa coal storage sites*" (2022), <https://www.thegazette.com/environment-nature/report-toxic-pollutants-leaking-from-12-iowa-coal-storage-sites/>
15. **City of Ames**, "*CHANGE ORDER No. 6 - TO PROVIDE ENGINEERING AND RELATED SERVICES NECESSARY TO COMPLY WITH U.S. EPA'S COAL COMBUSTION RESIDUALS (CCR) STANDARD [40 CFR PART 257]*" (2019), <https://www.cityofames.org/home/showpublisheddocument/53389/637100366426530000>

## MPW Overview

16. **Muscatine Power & Water**, "*Powering the Future- Rotary Presentation*" (2021), <https://www.youtube.com/watch?v=If7rJtPw5Y0>
17. **Muscatine Power & Water**, MPW Press Releases, <https://mpw.org/news-publications/>

## Lifecycle of Natural Gas

18. **Environmental Protection Agency**, "*Importance of Methane*" (2022), <https://www.epa.gov/gmi/importance-methane>

## History of Natural Gas

19. **Energy Information Administration**, \*"*Natural Gas Explained: Where our natural gas comes from*" (2022), <https://www.eia.gov/energyexplained/natural-gas/where-our-natural-gas-comes-from.php>
20. **US Department of Energy, Office of Fossil Energy, National Energy Technology Laboratory**, "*Life Cycle Analysis of Natural Gas Extraction and Power Generation*" (2014), DOE/NETL-2014/1646 page 2, [https://www.energy.gov/sites/prod/files/2019/09/f66/Life%20Cycle%20Analysis%20of%20Natural%20Gas%20Extraction%20and%20Power%20Generation%2005\\_29\\_14%20NETL.pdf](https://www.energy.gov/sites/prod/files/2019/09/f66/Life%20Cycle%20Analysis%20of%20Natural%20Gas%20Extraction%20and%20Power%20Generation%2005_29_14%20NETL.pdf)

## Delaware River Basin Commission

21. **Delaware River Basin Commission**, "*An Introduction to the DRBC*" (2023), <https://www.state.nj.us/drbc/about/>

## Fracking Ban: Source Documents

22. **New York State: Department of Environmental Conservation**, "*High-Volume Hydraulic Fracturing in NYS*" (2015), <https://www.dec.ny.gov/energy/75370.html>
23. **New York State: Department of Environmental Conservation**, "*FINAL SUPPLEMENTAL GENERIC ENVIRONMENTAL IMPACT STATEMENT ON THE OIL, GAS AND SOLUTION MINING REGULATORY PROGRAM: Regulatory Program for Horizontal Drilling and High-Volume Hydraulic Fracturing to Develop the Marcellus Shale and Other Low-Permeability Gas Reservoirs*" (2015), [https://www.dec.ny.gov/docs/materials\\_minerals\\_pdf/findingstatehvhf62015.pdf](https://www.dec.ny.gov/docs/materials_minerals_pdf/findingstatehvhf62015.pdf)
24. **Environmental Protection Agency**, "*Executive Summary, Hydraulic Fracturing Study: Final Assessment 2016*" (2016), <https://www.epa.gov/hfstudy/executive-summary-hydraulic-fracturing-study-final-assessment-2016>

## Life in the Permian Basin: Super Emitter

25. **Environmental Defense Fund**, "*PermianMAP Final Report: A look back at key findings and takeaways from the Permian Methane Analysis Project*" (2022), <https://www.permianmap.org/>

## Life in the Permian Basin: Earthquakes

26. **Bloomberg**, S. Chapa, D. Wethe, Bloomberg, "*Fracking Boom Turns Texas into the Earthquake capital of the US*", (April 29, 2022), <https://www.bloomberg.com/features/2022-permian-basin-earthquakes/>

## Forever Chemicals

27. **Physicians for Social Responsibility**, J.D. Dusty Horwitt, "*Fracking with 'Forever Chemicals'*", (2021) <https://psr.org/wp-content/uploads/2021/07/fracking-with-forever-chemicals.pdf>

## MPW Customer Bill: Current & Future Forecasts

28. **Muscatine Power & Water**, "How will electric bills change under MPW's Balanced Plan and under a 100% Renewable Plan?", (2023), <https://mpw.org/help/how-will-electric-bills-change-under-mpws-balanced-plan-and-under-a-100-renewable-plan/>

## IRA reductions

29. **Muscatine Power & Water**, D. White, *Presentation at MPW Board Meeting*, October 25th 2022

## Sierra Club

30. **Sierra Club: Iowa Beyond Coal**, K. Rock, "Clean Energy Remains the Best Option for Muscatine Power & Water Customers", (2023) <https://www.sierraclub.org/iowa/blog/2023/02/update-muscatine-power-water-and-replacing-coal>

## Energy Planning

31. **US Department of Energy**, "Community Energy Strategic Planning: Building Better Alliance" (2014), page 7, [https://www.energy.gov/sites/default/files/2014/05/f15/commenergyplanning\\_0\\_intro.pdf](https://www.energy.gov/sites/default/files/2014/05/f15/commenergyplanning_0_intro.pdf)

## Energy Districts

32. **Winneshiek Energy District**, <https://energydistrict.org/>
33. **Johnson Clean Energy District**, <https://johnsoncleanenergydistrict.org/>

## Industrial Energy Efficiency

34. **Iowa Economic Development Authority**, "Energy Storage Action Plan" (2019), [https://www.iowaeda.com/UserDocs/IEDA\\_EnergyStorage\\_2019.pdf](https://www.iowaeda.com/UserDocs/IEDA_EnergyStorage_2019.pdf)
35. **Advanced Charging Technologies. Inc**, N. Kutkut, "Energy Management Through Peak Shaving and Demand Response: New Opportunities for Energy Savings as Manufacturing and Distribution Facilities" (2017), <https://act-chargers.com/wp-content/uploads/2017/03/ACT-White-Paper-Energy-Management-through-Peak-Shaving-and-Demand-Response.pdf>

## Battery Capacity

36. **US Energy and Information Administration**, "Form EIA-860M, Preliminary Monthly Electric Generator Inventory" (2020), <https://www.eia.gov/electricity/data/eia860m/>

## Battery Innovation

37. **Popular Mechanics**, D. Orf, "Iron-Air Batteries Are Here. They May Alter the Future of Energy" (2023), <https://www.popularmechanics.com/science/energy/a42532492/iron-air-battery-energy-storage>
38. **Scientific America**, J. Fialka, "Rusty Batteries Could Greatly Improve Grid Energy Storage" (2022), <https://www.scientificamerican.com/article/rusty-batteries-could-greatly-improve-grid-energy-storage/>

## Micro Grids

39. **US Department of Energy, Office of Electricity**, "*The Role of Microgrids in Helping to Advance the Nation's Energy System*" (2023), <https://www.energy.gov/oe/role-microgrids-helping-advance-nations-energy-system>
40. **National Renewable Energy Laboratory**, "*Microgrids*" (2023), <https://www.nrel.gov/grid/microgrids.html>

## Justice40

41. **Iowa Environmental Council**, "*Justice40 Overview*" (2022), <http://iafederalfunding.org/wp-content/uploads/2022/09/Justice40-Factsheet.pdf>
- 

## Tools & Resources

---

### Individual Energy Savings

1. **Rewiring America IRA Calculator**: <https://www.rewiringamerica.org/app/ira-calculator>

### Funding Opportunities

2. **Iowa Energy & Infrastructure Funding Hub**: <https://iafederalfunding.org>
  - Individuals: <https://iafederalfunding.org/individuals/>
  - Businesses: <https://iafederalfunding.org/business/>
  - Non-Profits: <https://iafederalfunding.org/non-profits/>
  - Governments: <https://iafederalfunding.org/governments/>
3. **Justice40**: <https://iafederalfunding.org/justice40-initiative/>
4. **The Council on Environmental Quality**
  - Screening tool: <https://screeningtool.geoplatform.gov/en/#12.9/41.41882/-91.05585>
5. **Equitable & Just National Climate Platform Funding**: [https://ajustclimate.org/justice40\\_funding.html](https://ajustclimate.org/justice40_funding.html)