



APPALACHIAN ENERGY FUTURE

Advancing Our Region's Clean Energy & Industrial Evolution

OHIO · PENNSYLVANIA · WEST VIRGINIA

Hydrogen and the clean energy transition for our region

February 9, 2023

Michael Docherty - AEF



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Vision:

Enable and accelerate a future vision of the northern Appalachian Region* as a leading **clean-energy and industrial ecosystem.**

Help create a successful, recognized national **model for sustainable energy and production** systems that provides **inclusive prosperity for the region.**

* Focused on tri-state region of Ohio, Pennsylvania, West Virginia

AEF is facilitated by:



Industry-led alliance:



Engaging regional stakeholders:

- Communities
- Economic development groups
- Labor groups
- Legislators
- NGO/non-profit groups
- State leaders
- Universities
- ... and more

Areas of focus:

- Accessible and fact-based **education**
- Inclusive **stakeholder engagement**
- Improved **regional alignment** to enable infrastructure and ecosystem



2023 Activities & Resources:

- ✓ Educational content/resources
- ✓ Webinar series
- ✓ Forums and roundtables (across the region)
- ✓ Partnering programs (information toolkits)
- ✓ Promote tri-state public/private collaboration

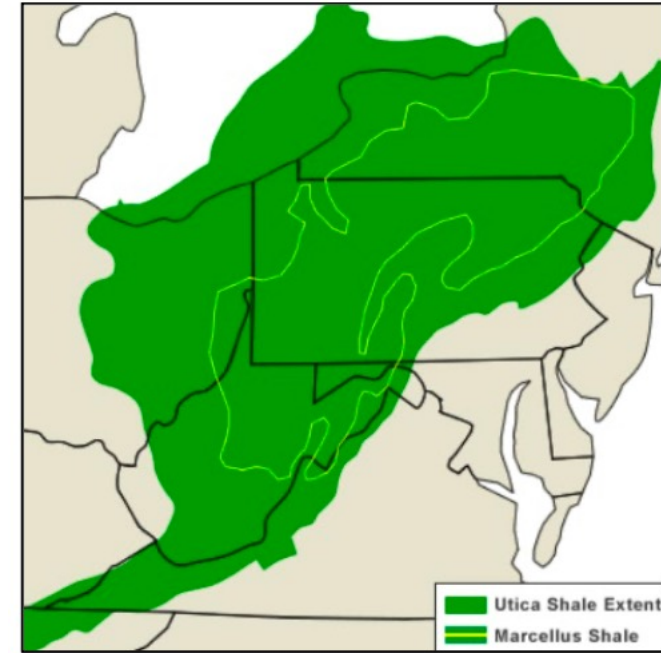
Get in touch:

e: info@appalachianenergyfuture.org

w: appalachianenergyfuture.org

Importance of a regional approach

- ✓ Abundance and strength of natural gas and pipeline infrastructure

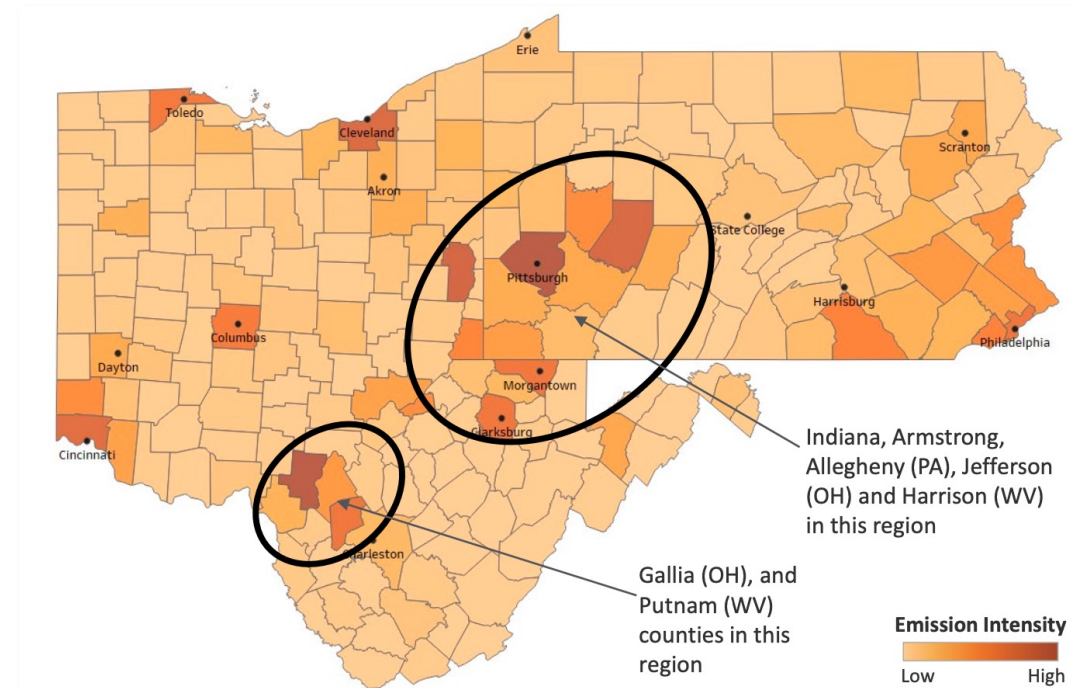


- 214 trillion cubic feet of undiscovered and recoverable natural gas
- Since 2015, natural gas has flowed outward from Northern Appalachian region and has enabled US to become net exporter of LNG in global markets.

Source: Deloitte/IN-2-Market Current-State Fact Base for N. Appalachian Region (Feb. 2023 Preliminary Issue) – do not copy or distribute

Importance of a regional approach

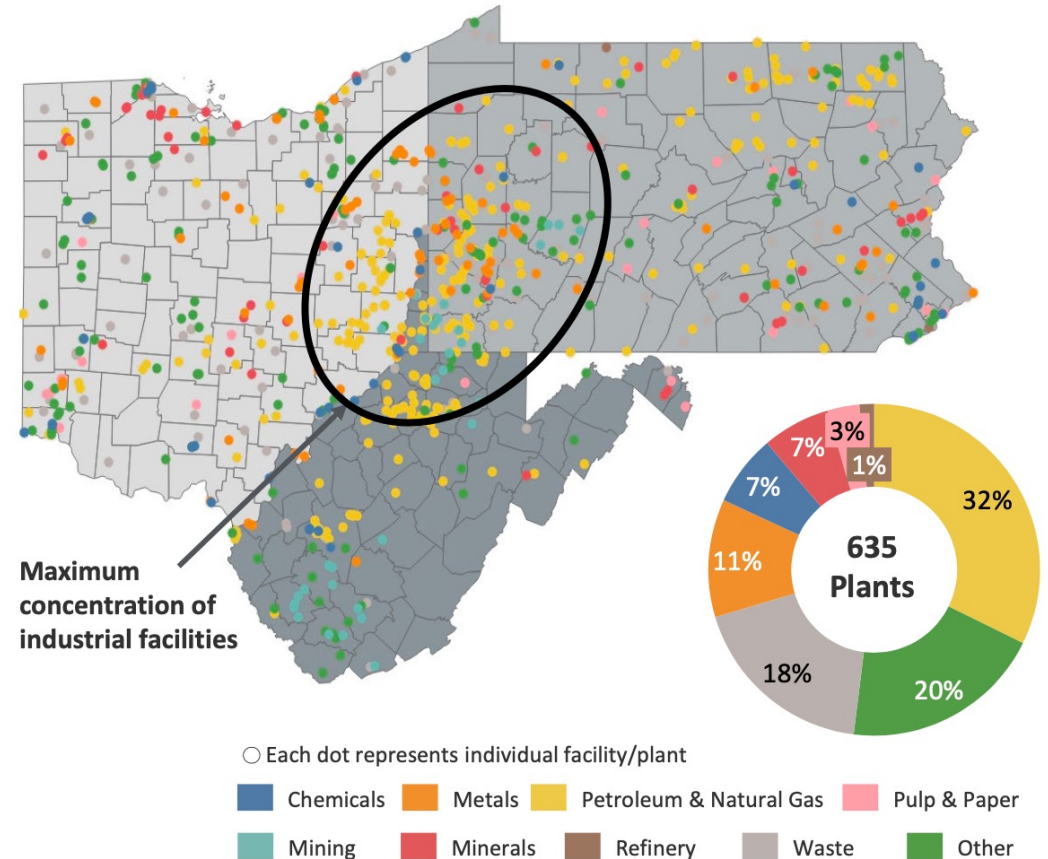
- ✓ Abundance and strength of natural gas reserves
- ✓ Regional concentration of emissions



Source: Deloitte/IN-2-Market Current-State Fact Base for N. Appalachian Region (Feb. 2023 Preliminary Issue) – do not copy or distribute

Importance of a regional approach

- ✓ Abundance and strength of natural gas reserves
- ✓ Regional concentration of emissions
- ✓ Concentration of industry



Source: Deloitte/IN-2-Market Current-State Fact Base for N. Appalachian Region (Feb. 2023 Preliminary Issue) – do not copy or distribute

Importance of regional collaboration

Addressing regional needs...

- Developing shared infrastructure
- Harmonization of regulatory and permitting frameworks
- Developing the workforce for a successful energy transition
- Ensuring equitable and inclusive approaches to development and jobs
- ... and more

Requires collaboration across...

- Industry
- Communities (general public)
- Legislators (state/federal)
- Governors/staffs
- Local officials
- Regulators
- Labor
- Universities
- NGO's (EJ groups, et al)
- Economic dev. Groups
- ... and more

Key success factors

- Inclusive approach to this energy transition
- Play to region's strengths
- Play the long game
- Getting engaged

Get in touch: mdocherty@aefuture.org



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For questions or feedback:

Michael Docherty, Executive Director
Appalachian Energy Future

mdocherty@aefuture.org

c: 412.275.0349