

# Appalachian Regional Clean Hydrogen Hub



CLEAN AIR  
TASK FORCE

## How the Appalachian Regional Clean Hydrogen Hub (ARCH2) benefits Pennsylvania, West Virginia, and Ohio

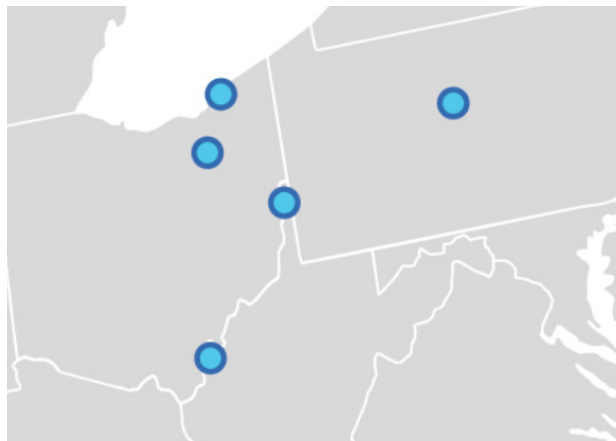
*Partnerships building economic opportunity and jobs*

### 21,000+ jobs

Projected to create over 21,000 direct jobs, with 18,000+ in construction and 3,000+ permanent jobs.<sup>1</sup>

### 11 projects

11 major projects creating economic opportunity in Pennsylvania, West Virginia, Ohio, and more.



● Production sites<sup>2</sup>

#### Project development partners

- Air Liquide
- CNX Resources Corporation
- Enbridge Gas Ohio
- Empire Diversified Energy
- EQT
- Fidelis New Energy
- Hog Lick Aggregates
- Hope Gas
- Independence Hydrogen
- KeyState Energy
- Plug Power

#### Program management office

- Allegheny Science & Technology
- Battelle
- GTI Energy
- National Energy Technology Laboratory
- TRC

### ARCH2 allies<sup>3</sup>

#### Hydrogen supply chain, energy and fuels

- |                    |                               |
|--------------------|-------------------------------|
| ■ BHE GT&S         | ■ Peoples                     |
| ■ Cavendish Energy | ■ Plagen                      |
| ■ CJ Hughes        | ■ Schneider Electric          |
| ■ De Nora          | ■ Terrestrial Energy          |
| ■ Enbridge         | ■ TRC Companies               |
| ■ Greylock         | ■ Watt Fuel Cell              |
| ■ Midstream        | ■ West Virginia Methanol, INC |
| ■ National Fuel    | ■ Williams                    |
| ■ NovoHydrogen     |                               |

#### Transportation

- SARTA

#### Other/supporting organizations

- BlackRock
- Energy Innovation Center
- Marion Regional Development Corporation
- Orion Strategies

#### Industrial equipment and engineering

- Babcock & Wilcox
- Baker Hughes
- Belle Chemical
- Bloom Energy
- BorgWarner
- CTL Engineering
- KST Plant
- Nucor
- Sant-Gobain

<sup>1</sup> [https://www.energy.gov/sites/default/files/2023-10/H2Hubs\\_Appalachian\\_Community\\_Briefing.pdf](https://www.energy.gov/sites/default/files/2023-10/H2Hubs_Appalachian_Community_Briefing.pdf)

<sup>2</sup> Map from the Office of Clean Energy Demonstrations. Includes only proposed production sites announced in July 2024; does not reflect full project list.

<sup>3</sup> [arch2hub.com](https://arch2hub.com); OCED Regional Clean Hydrogen Hubs Appalachian Regional H2Hub Community Briefing

## ARCH2 regional outreach<sup>3</sup>

### Labor/trades/workforce development

- Tri-State Building Trades Unions
- AFL-CIO
- PMA
- United Brotherhood of Carpenters
- Jobs Ohio

### Business development/industry organizations

- Steptoe & Johnson
- Ohio Chamber of Commerce
- EPRI
- Ohio Grants Alliance
- PA Chamber of Business and Industry
- High Technology Foundation
- Canton Regional Chamber of Commerce
- Chemical Alliance Zone
- Kentucky Oil and Gas Association
- Greater Cleveland Partnership
- The Midwest Hydrogen Center of Excellence

### Community/environment nonprofits

- Pennsylvania Independent Oil & Gas Association
- Team Kentucky Energy and Environment Cabinet
- West Virginia Public Education Collaborative
- Clean Air Task Force
- New Vision Renewable Energy
- DRWV Foundation
- Brite Energy Innovators
- In2Market

### Government

- Commonwealth of Kentucky
- State of West Virginia
- State of Ohio
- Flandreau Santee Sioux Tribe
- State of Maryland
- County of Clinton Pennsylvania
- Pennsylvania Department of Conservation and Natural Resources
- City of Gallipolis, Ohio
- City of Marietta, Ohio

### Academia

- West Virginia University
- Marshall University
- University of Kentucky
- Ohio State University
- Cleveland State University
- West Virginia Community & Technical College System
- Pierpont Community & Technical College
- Kentucky Community & Technical College System
- WVSU
- Mountwest Community & Technical College
- Blue Ridge Community College

## Community support<sup>3</sup>

### Federal government

- West Virginia Former Sen. Joseph Manchin
- West Virginia Sen. Shelley Moore Capito
- Vice President JD Vance

### State government

- Ohio Gov. Michael DeWine
- West Virginia Gov. Jim Justice
- Ohio Rep. Michael Carey
- Ohio Rep. Bill Johnson
- Ohio Rep. David Joyce
- Ohio Rep. Troy Balderson
- West Virginia Rep. Alex Mooney
- Ohio Rep. Joyce Beatty
- Ohio Former Rep. Tim Ryan
- West Virginia Rep. Carol Miller
- Kentucky Gov. Andy Beshear
- Kentucky Del. James Gooch
- Kenya Stump, Kentucky Energy and Environment Cabinet

### Municipal government

- Canton Regional Chamber of Commerce of Ohio
- Steve Stivers, Ohio Chamber of Commerce
- City of Gallipolis of Ohio
- Mayor of the City of Marietta, Ohio

### Labor union/trade organizations

- AFL-CIO WV
- Tri-State Building Trades of Kentucky
- West Virginia State Building and Construction Trades

### Workforce development

- High Technology Foundation of West Virginia

### Nonprofit

- Brite Energy Innovations of Ohio
- Discover the Real West Virginia
- EPRI
- In2Market of Pennsylvania
- Kentucky Oil & Gas Association
- New Vision Renewable Energy
- Midwest Hydrogen Center of Excellence
- Pennsylvania Manufacturers Association
- Pennsylvania Oil and Gas Association
- West Virginia Chemical Alliance
- West Virginia Manufacturers Association
- Cincinnati Business Committee
- Rhododendron Group

### Business development

- Orion Strategies
- PA Chamber of Business and Industry
- Steptoe & Johnson

### Industry

- American Electric Power/Appalachian Power/Kentucky Power
- Artex Energy Group, LLC
- Command Consulting Group
- Long RidgeH2U Technology
- Shale Crescent

### Academia

- Blue Ridge Community College
- Bridge Valley Community and Technical College
- Cleveland State University
- Kentucky Community and Technical College System
- Marietta College
- Marshall University
- Mountwest Community College
- Pierpont Community and Technical College
- University of Cincinnati
- University of Kentucky
- Waynesburg University
- West Virginia Community & Technical College
- West Virginia State University
- West Virginia University
- Steve Roberts, West Virginia Chamber of Commerce President