

APPALACHIAN HYDROGEN HUB (ARCH2)

\$925M
federal investment

~9M
metric tons CO₂
avoided annually



Challenges



Long distances between clean energy resources and regional energy users

Demonstrations



Use biomass, clean electricity, and regionally abundant natural gas to produce clean H₂

Real-World Impact



Clean H₂ available for regional use



CO₂ emitted during traditional H₂ production



Permanently store CO₂ safely underground



Decarbonize industries and reduce CO₂ emissions



Heavy-duty trucking and transit emissions



Build clean H₂ refueling infrastructure and finance fuel cell electric vehicles



Improve air quality for surrounding Appalachian communities

Note: This infographic depicts proposed activities for the Hydrogen Hub. These activities are subject to change and are based on information as of July 2024. The impacts of the Hydrogen Hub will be evaluated and validated through the NEPA process.