

# The Hydrogen Fueling Future



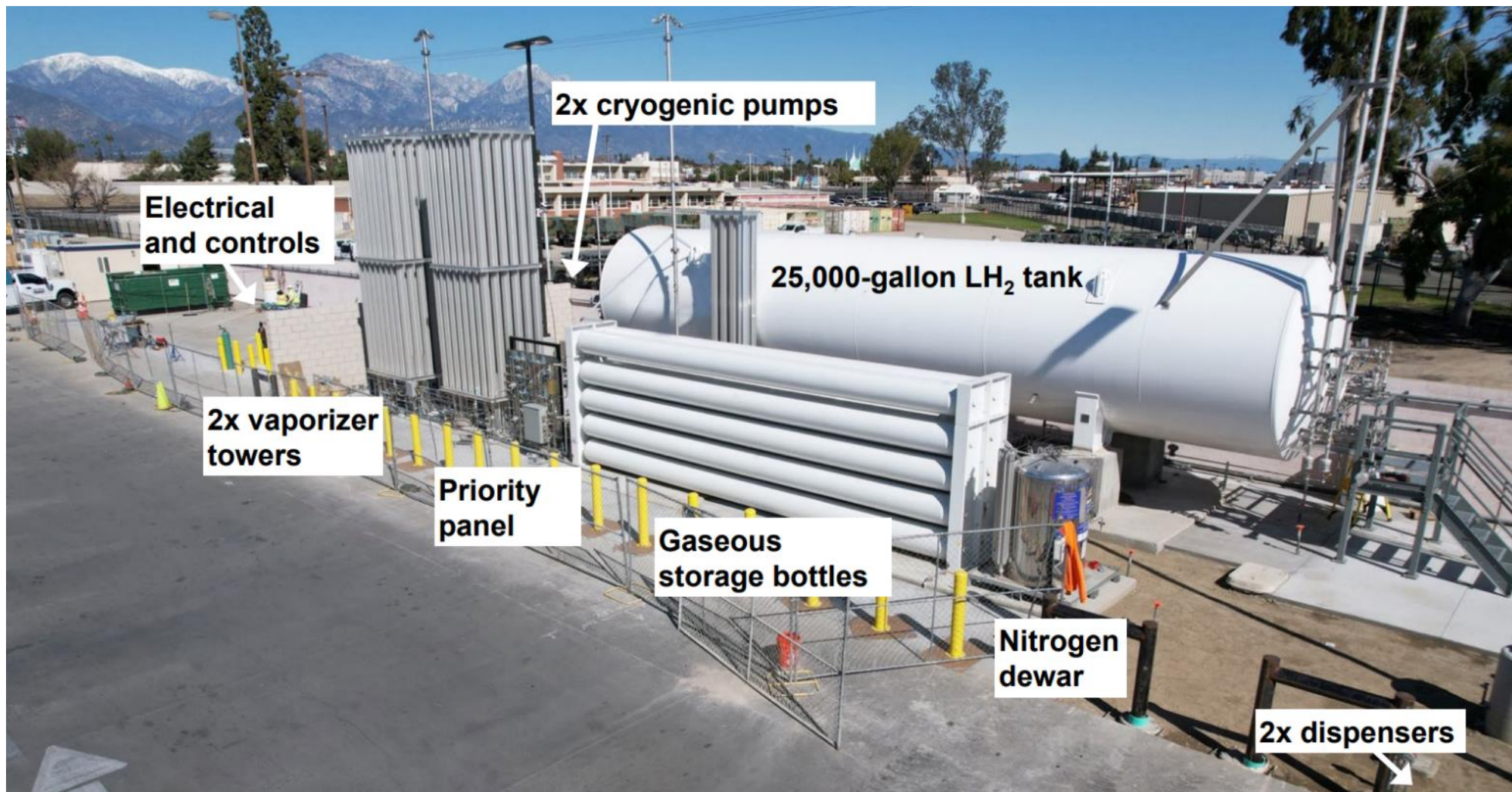
# About Foothill Transit

- Pomona and San Gabriel Valleys (eastern Los Angeles County)
- 327 sq. mi service area, 1.5m service pop.
- 12.6 Million boardings per year.
- 36 local and express routes.
- 307 CNG, 19 electric, 33 FCEB
- Innovation is part of our core mission.





# H2 Infrastructure



# Transitioning to Fuel Cell Buses

- Driver Training
- Technician Training
- Maintenance Facility Upgrade
- Fueling process
- Contracting for services
- H2 Price





# FCEB Commissioning

- Fuel fill test 06/01
- Filled 18 buses within 1 hour 30 minutes
- Fuel up to 5 kilograms a minute
- 9 to 10 minutes fill



## The Industry Association for Hydrogen in the United States Based in Washington, DC

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- **Advocating** for Hydrogen and Fuel Cell technology for over 30 years.
- **Representing** nearly 100 leading companies and organizations that are advancing the *production, distribution, and use* of Hydrogen.
- **Providing** a consistent industry voice to regulators and policymakers at both *Federal and State* levels.
- **Educating** about the *environmental, economic and societal* benefits of Hydrogen as a key contributor to decarbonization

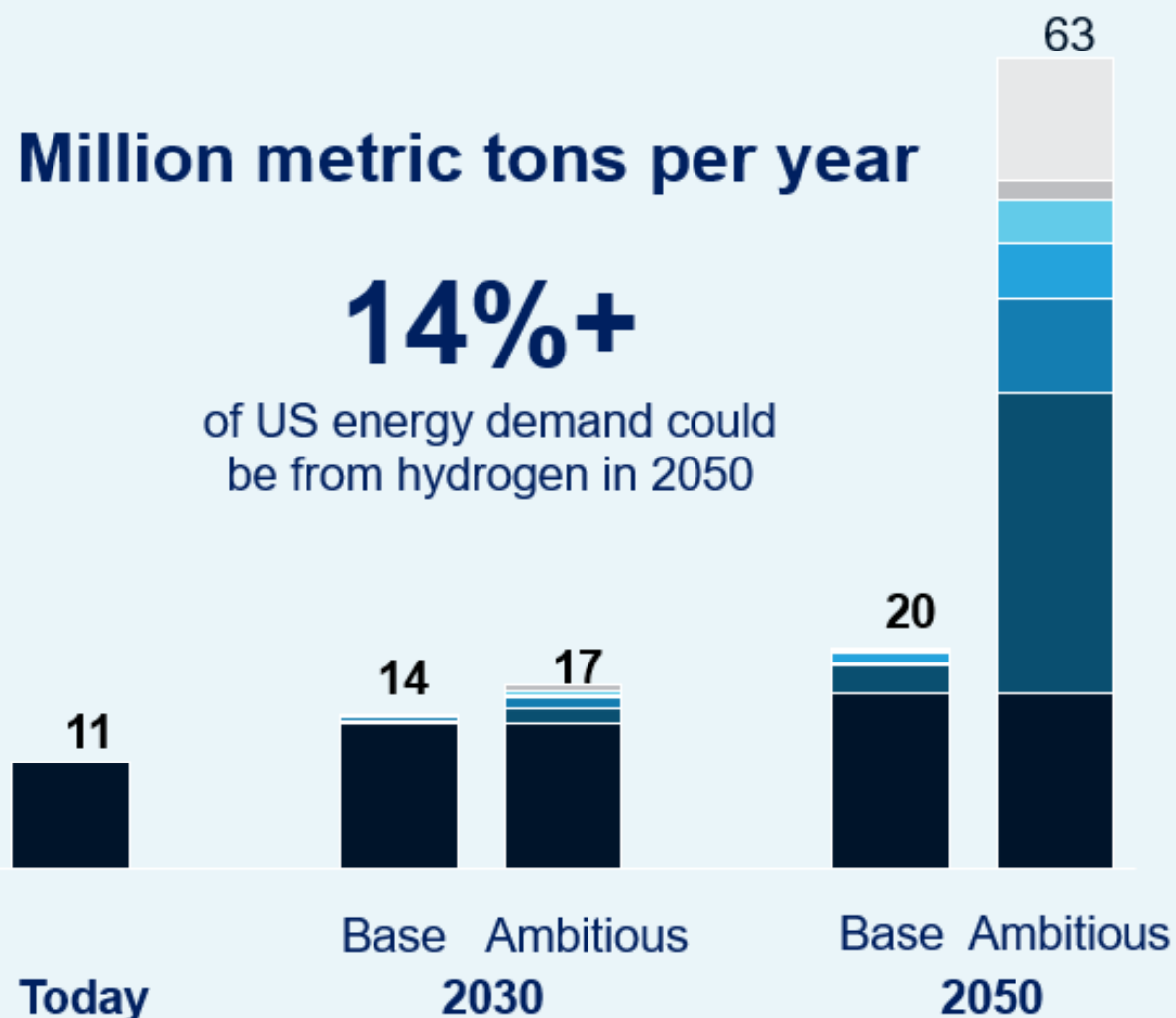
# Fuel Cell and Hydrogen Industry Association



Million metric tons per year

**14%+**

of US energy demand could be from hydrogen in 2050



- Additional upside from other uses
  - Synthetic jet fuel
  - Ammonia as fuel for shipping
- New feedstock
- Power generation and grid balancing
- Fuel for industry
- Fuel for residential and commercial buildings
- Transportation fuel
- Existing feedstock

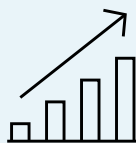
**Hydrogen for transportation fuel expected to be biggest use case by 2050**

1. Demand excluding feedstock, based on IEA final energy demand for the US  
 2. Assuming that 20% of jet fuel demand is met from synthetic fuel and 20% of marine bunker fuel from ammonia



# The US economy would benefit through emissions reduction, growth, jobs, & use of domestic energy resources

Hydrogen in the US could ...



... Strengthen the US economy

**~\$750 bn**

in revenue

**3.4m**

jobs



... Create a highly competitive source of domestically produced low-emission energy

**~100%**

domestically produced



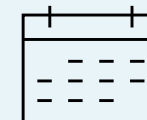
... Provide significant environmental benefits and improve air quality

**-16%**

CO<sub>2</sub>

**-36%**

NO<sub>x</sub>



**In 2050**

BayoTech is solving the **biggest challenges** facing the **new generation** of hydrogen users by providing access to **cost-competitive, reliable** hydrogen supply

## BayoGaaS<sup>™</sup> Hydrogen Hubs

- Building a distributed network of hydrogen production hubs
- First commercial hub on-line in Missouri, second hub in permitting in Northern California



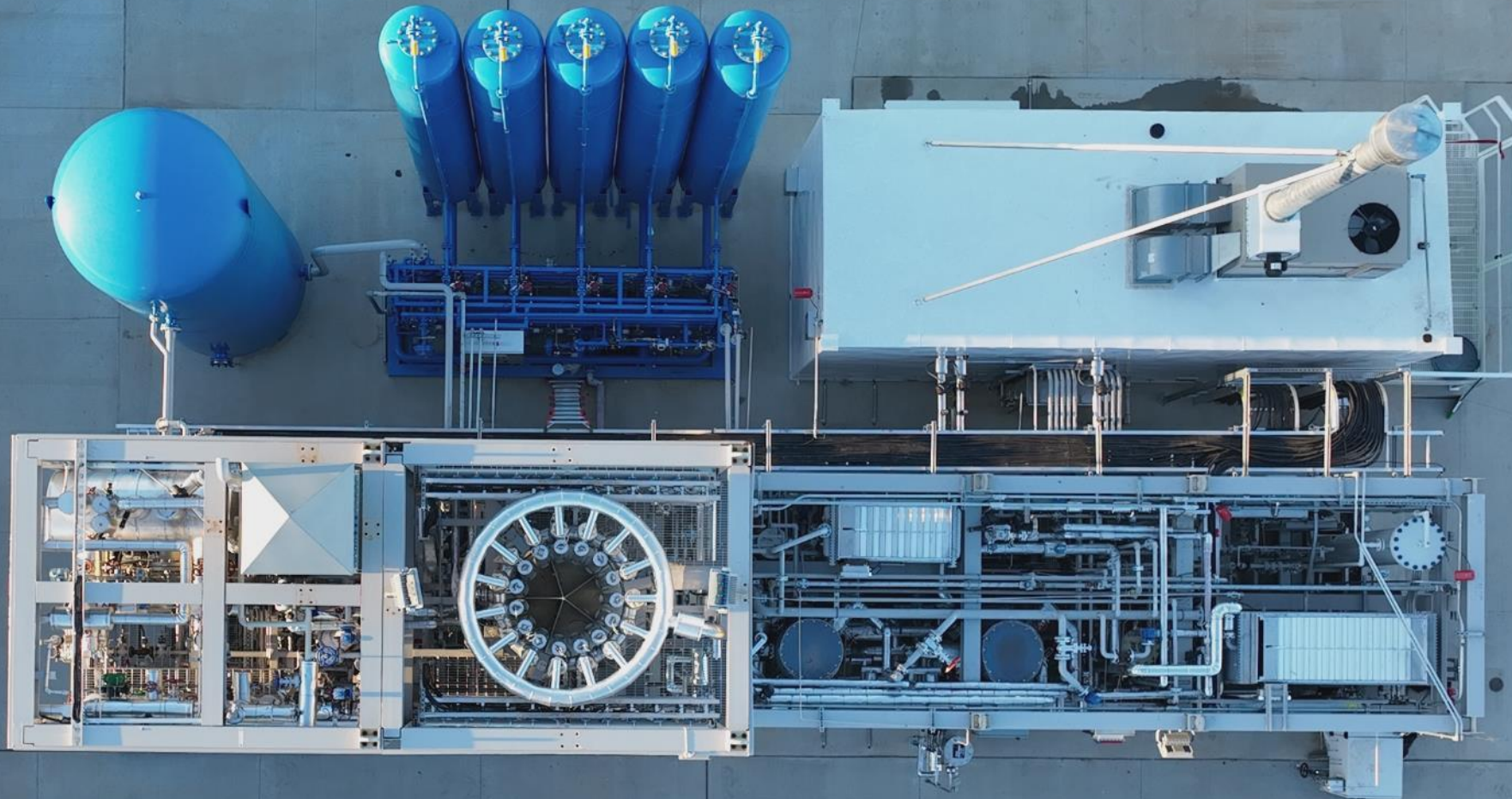
## BayoTech High Pressure Gas Transportation Equipment

- Leading provider of high-pressure gaseous hydrogen transport equipment
- Over 750 units sold, with blue chip companies standardized on equipment





# BayoTech's Modular Hydrogen Generators are Highly Efficient and Scalable



- Factory built modular systems built for fast installation
- Patented reformer uses less energy, saving money and reducing carbon footprint
- Can be paired with renewable natural gas or carbon capture for zero or negative carbon intensity
- Systems are backed by 24 x 7 monitoring



# Midwest Hydrogen Hub

- Completed construction of first hydrogen hub in Wentzville, MO
- Facility produces 600 kg/day of fuel cell grade hydrogen
- Dispensed into BayoTech transport trailers for delivery to customers across the US
- Customer base includes gas distributors, industrial users, fuel cell equipment manufacturers & fleet operators
- Next series of hubs, located in California (or other selected areas), will be generating 2-4 tons of hydrogen per-day

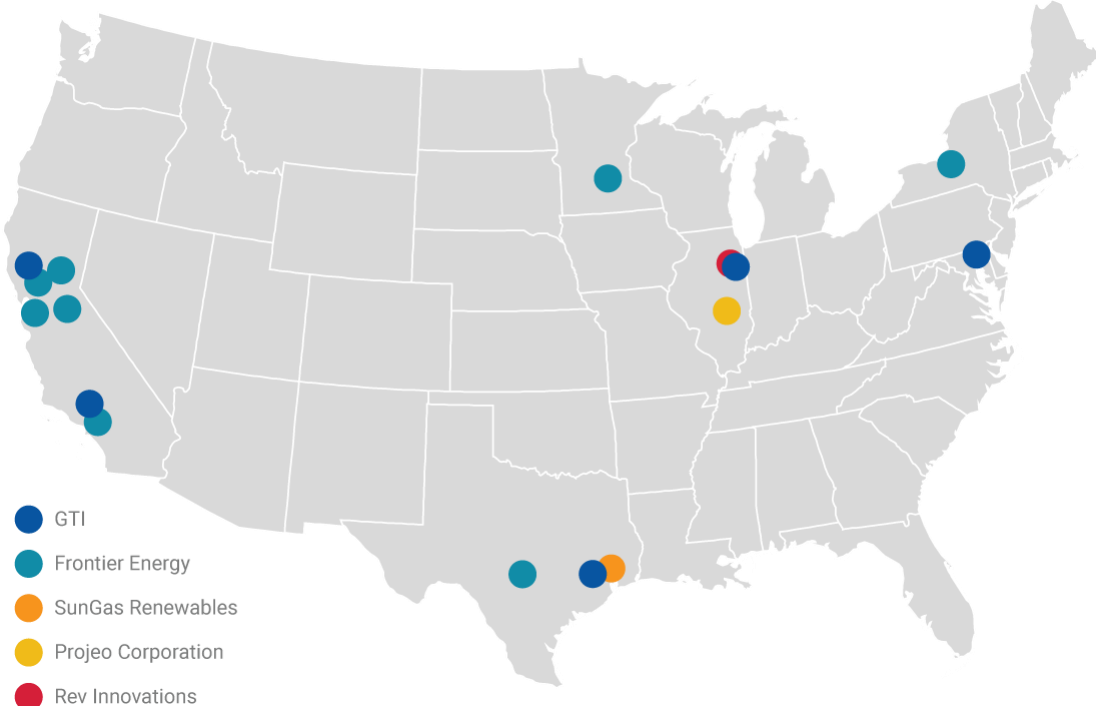


# 80-year history of turning raw technology into practical energy solutions



World-class piloting facility in the Chicago area

We work collaboratively to address critical energy challenges across the entire energy value chain

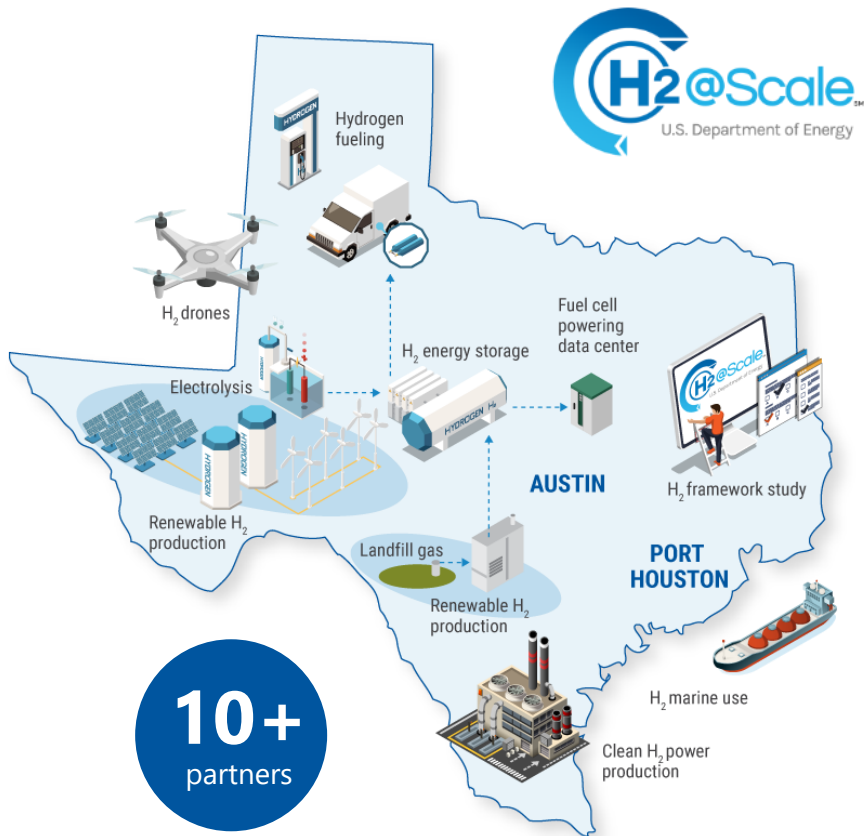




# Building and demonstrating hydrogen systems

## H2@Scale Project

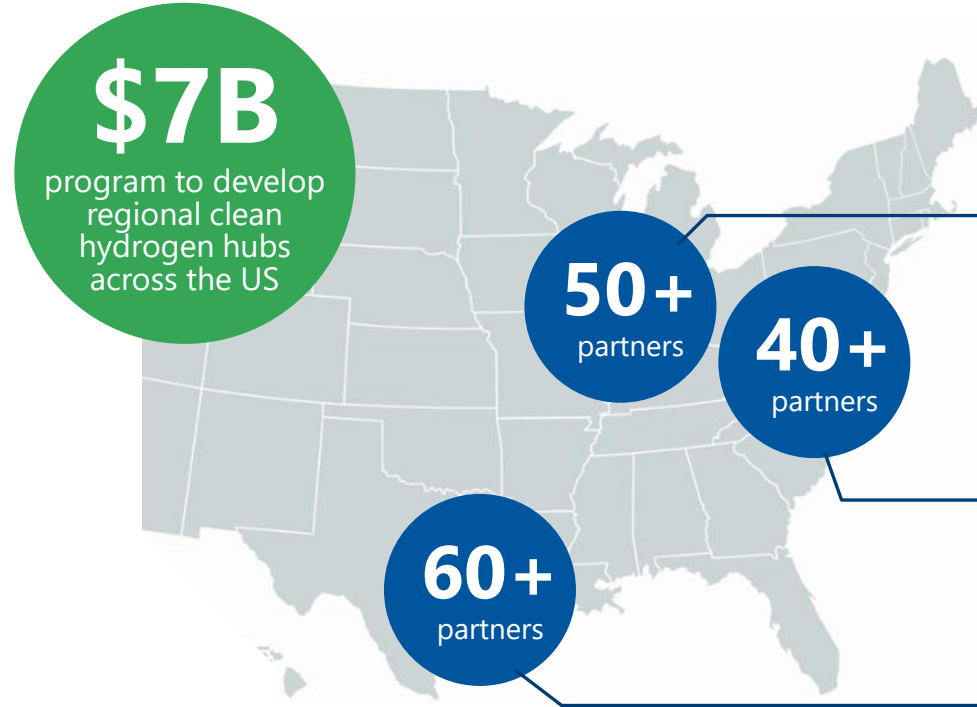
*Hydrogen for Texas and Beyond*



**10+**  
partners

## Regional Clean Hydrogen Hubs

*Bipartisan Infrastructure Law*



**\$7B**  
program to develop regional clean hydrogen hubs across the US



U.S. DEPARTMENT OF ENERGY

MIDWEST ALLIANCE FOR CLEAN HYDROGEN

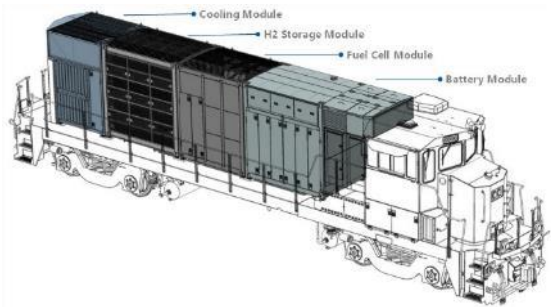
ARCH2  
APPALACHIAN REGIONAL CLEAN HYDROGEN HUB



HyVelocity Hub



# We work with advanced mobility technologies



FC LOCOMOTIVE



FC DRAYAGE TRUCK



500hp FC TRUCK



RNG LINEHAUL LOCOMOTIVE



FC YARD TRACTOR



MOBILE sLH2 FUELER



ALTERNATIVE FUEL CORRIDOR



CNG CONCRETE MIXER



FC DRONE



CNG-HYBRID CLASS-8