United States Energy Association
Virtual Briefing on Hydrogen

Eric Guter
Vice President, Hydrogen

GENERATING A CLEANER FUTURE
Air Products at a glance

- **23,000** Employees
- **83** Years of industry leadership
- **50+** Countries
- **250,000+** Customers
- **750+** Production facilities
- **>1,800** Miles of industrial gas pipelines
- **1.5MM** H₂ fuelings per year
- **~$60B** Market cap
- **$15B** To drive energy transition
Driven by policy, the world is moving toward low-carbon or “clean” hydrogen.
Generating a ready, global supply of clean hydrogen

- **65+** years hydrogen experience
- **100+** production facilities globally with **9,000+** tons of production capacity
- **$15b** world-leading investment
- **700+** miles of dedicated hydrogen pipelines
- **3,600+** metric tons/day available in the next five years
Air Products has made an industry-leading capital commitment in first-mover clean hydrogen projects.

From the world’s largest green-hydrogen based ammonia production facility run on renewable energy in the Kingdom of Saudi Arabia to the net-zero hydrogen energy complex in Edmonton, Alberta, Canada.

We are acting now at this crucial moment in the energy transition and by 2027 will have the capacity to fuel 60,000+ trucks per day.
65+ Years of Hydrogen Safety Experience
Production, transportation and dispensing at world scale

**H₂ is Well Regulated**

- DOT
- PHMSA
- ASME
- API

**Strong Oversight**

at Federal & State levels

**Success Factors**

**Design & Construction**

- ASME, API codes and Industry & Company standards

**Operations**

- Multi-layered automated safety systems, integrity management and assessments, proactive maintenance

**Asset Management**

- Security, cybersecurity, public stakeholder engagement
Multiple Solutions required
Clean hydrogen can replace fossil fuels in hard-to-abate sectors where electrification isn’t feasible

Hydrogen is one answer
Versatile energy carrier, could contribute to 20% of global emissions reduction*

International Energy Trade
can reduce the cost of the energy transition by $6 trillion USD*

What’s next in hydrogen?

Continued investment in growing supply and infrastructure

Collaboration with government and industry stakeholders

Work with partners to make the transition
Thank you

Eric Guter
Vice President Hydrogen
Air Products and Chemicals, Inc.
4000 MacArthur Boulevard
Newport Beach, CA 92660
800-654-4567
info@airproducts.com