United States Energy Association Virtual Briefing on Hydrogen

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GENERATING A CLEANER FUTURE





Air Products at a glance

GENERATING A CLEANER FUTURE

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

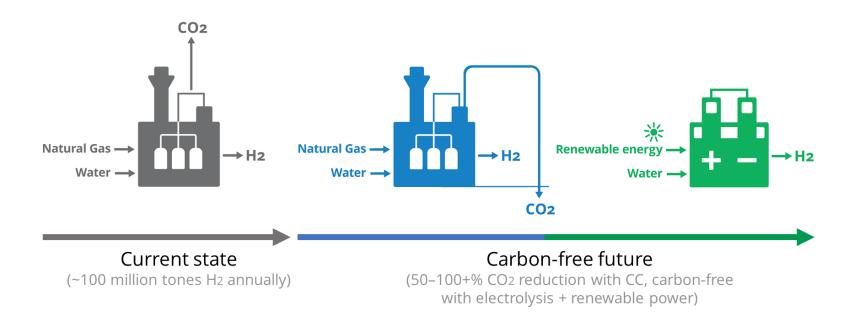
\$15B To drive energy transition





Driven by policy, the world is moving toward low-carbon or "clean" hydrogen

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Generating a ready, global supply of clean hydrogen

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65+ years hydrogen experience

100+ production facilities globally with **9,000+** tons of production capacity

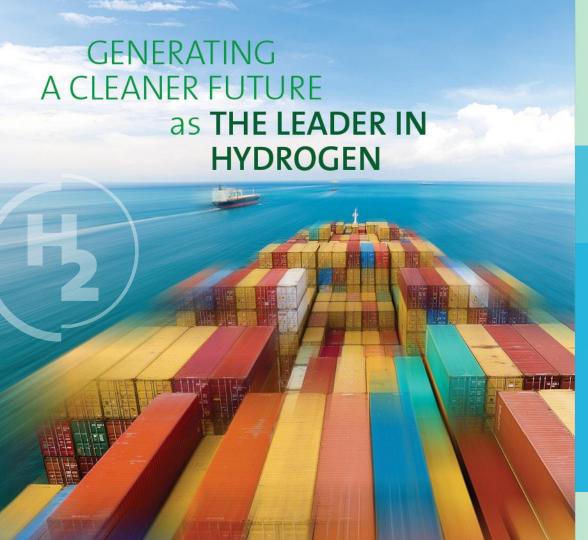
\$15b world-leading investment

700+ miles of dedicated hydrogen pipelines

3,600+ metric tons/day available in the next five years







Air Products has made an industryleading capital commitment in **firstmover 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



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





Keys to the energy transition

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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*

*Mckinsey Oct 2022 - https://hydrogencouncil.com/wp-content/uploads/2022/10/Global-Hydrogen-Flows.pdf



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



