

Generating a Cleaner Future

Hydrogen.

Clean, safe, reliable on
your road to net zero.

Kristen Cleven

Business Development Manager

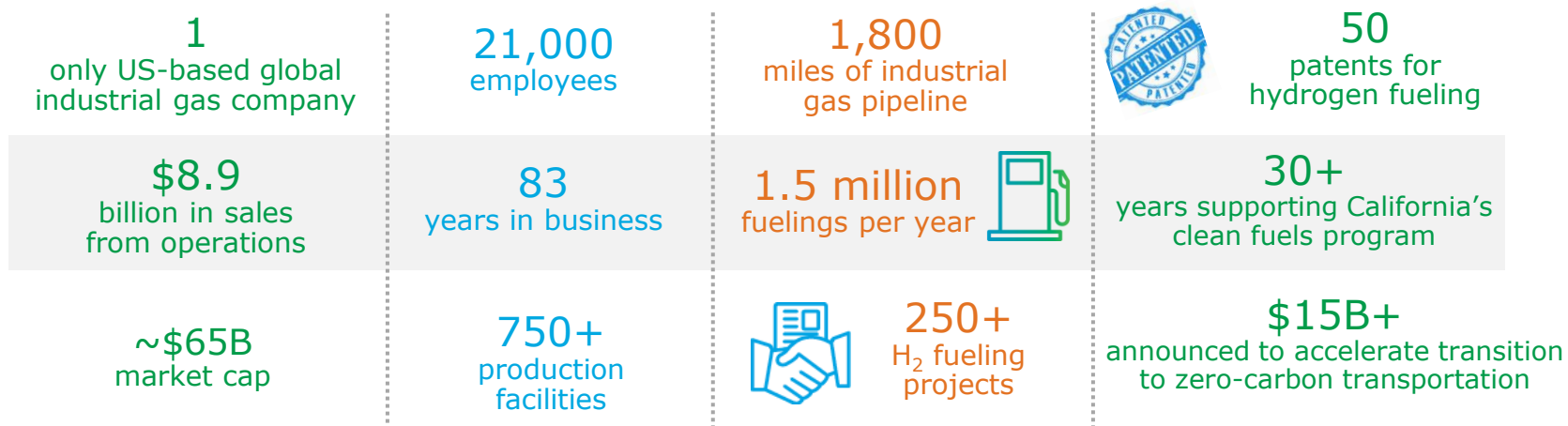
North State Transit Symposium

July 12, 2023



Air Products is the world's leading hydrogen producer

Built on deep experience, strong performance, high ambitions



Ready to support sustainable transportation goals by providing 100% carbon-free hydrogen for mobility

Clean hydrogen at scale is coming

Decarbonization is a growth opportunity for Air Products

Sustainability is our growth strategy

\$15B to drive energy transition

Invest in clean hydrogen production and infrastructure

33% emissions reduction by 2030

Reduce Scope 1, 2, 3 emissions from 2015 baseline

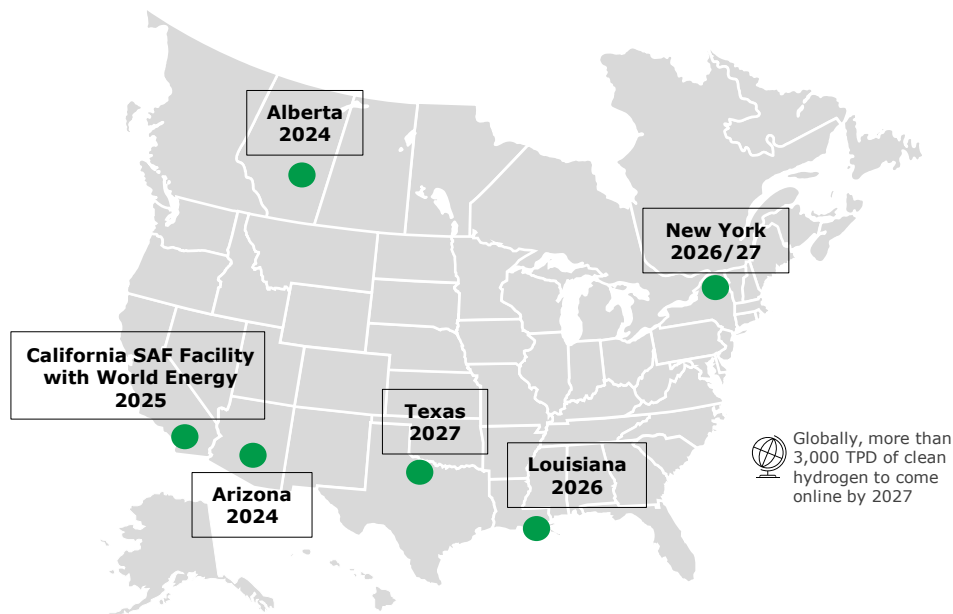
Net Zero by 2050

Eliminate emissions across the value chain

Zero-emission fleet

Convert our 2000+ trucks to hydrogen

Announced Air Products clean hydrogen projects in North America



Air Products offers a full range of distribution options

World's Largest Hydrogen Pipeline Network

Pipeline Locations:

-Southern California, Alberta, Canada, Rotterdam, Netherlands, Map Ta Phut, Thailand and the World's Longest H2 Pipeline (~700 miles) located in the Gulf Coast



15 Million miles
Driven / Year



Orange County Transportation Authority in California since August 2019



Air Products designed station, supplied major equipment, services station & supplies hydrogen to under a long-term agreement

Metric	Value
Number of fuel cell buses	10
miles traveled	~400,000
Average fuel economy	8.46 mi/kg H ₂ 9.56 mi/DGE
Average fueling rate	4.1 kg/min
Time to fuel each bus	4-8 mins
\$/kg	Competitive with \$/gal diesel

AP H35 transit station can support up to 120 buses/day

Our hydrogen refueling solution is tailored to **your** needs

With our **flexible hydrogen dispensing options**, we will meet you where you are on your path to zero emissions...

Compression-less HRS

For start-ups, trials



Small pilot

Demo 5 FC buses

Supported by a temporary hydrogen fueler

With gaseous delivery

Liquid H₂ HRS

Up to 6 TPD



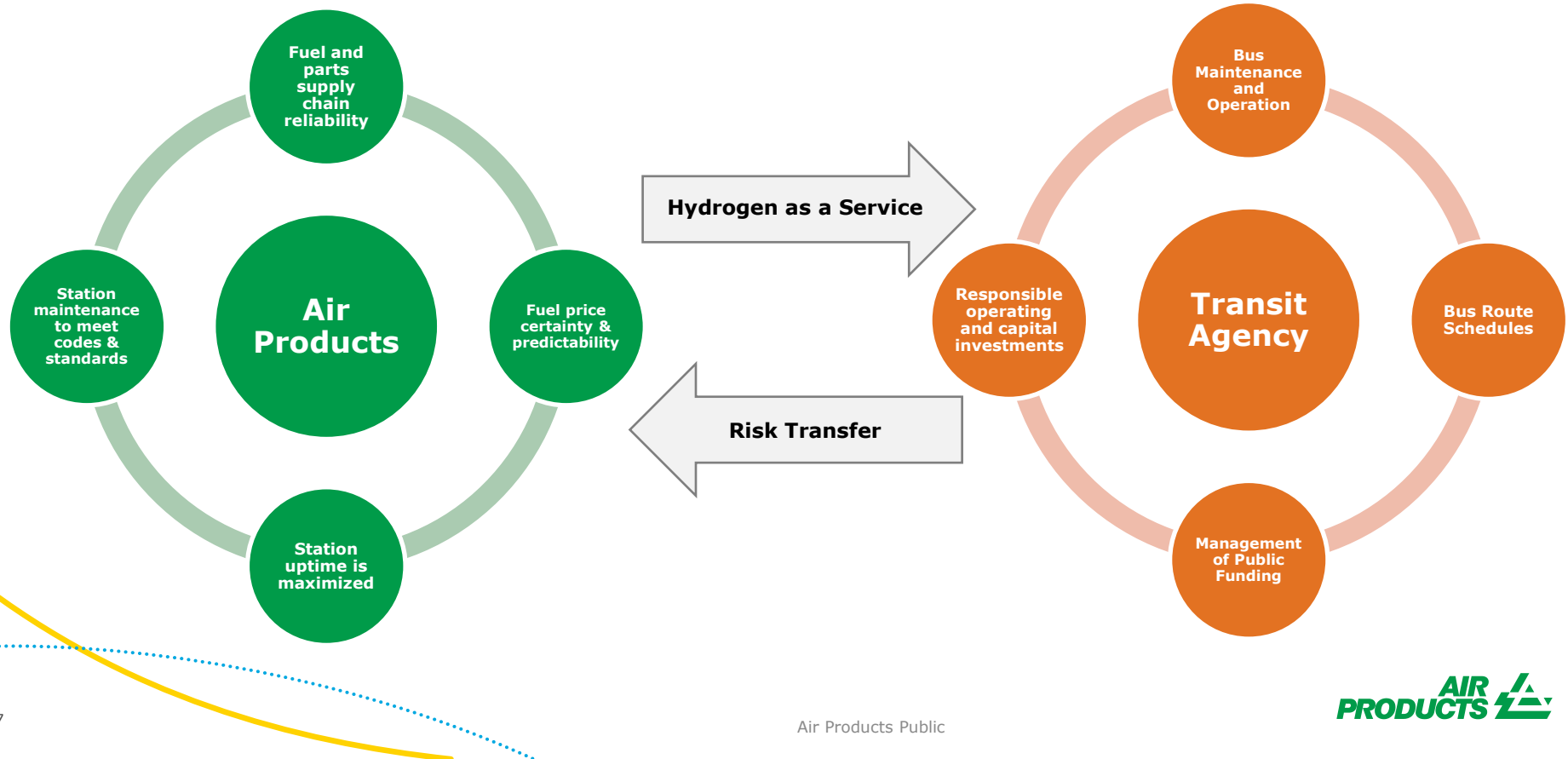
Large liquid station

Fuel up to 120 FC buses in 12 hours

Supported by a permanent hydrogen refueling station

With liquid delivery

A turnkey offering ensures reliability and performance



North State Alternative H2 Fueling Model

6 Hydrogen Refueling Stations to support 18 agencies

- Multiple reliable, dedicated, retail fueling stations
- Revenue sharing potential
- No upfront capital, O&M requirements

