SAFE | RELIABLE | RESPONSIBLE

Massena Public Meeting July 12, 2023



Introductions

Trip Oliver Director, Government and Community Relations Air Products



Agenda

- Air Products Overview & Safety Culture
 - Fred Schneider, North Region Line Manager, Air Products
- Air Products Hydrogen Capabilities
 - Harry Johnston, Director Large Project Business Development, Air Products
- Site Plan Discussion
 - Jonathan Traynor, Senior Project Manager, Air Products
- Project Environmental Review
 - Eric Kenna, Department Manager, C&S Engineers, Inc.
- Questions



Air Products Overview & Safety Culture

Fred Schneider North Region Line Manager, Air Products



Air Products Overview & Safety Culture

Fred Schneider – North Region Line Manager

- Background with Air Products & Current Role
- Air Products Overview
- Hydrogen Summary
- Safety Culture
- Overview of Design Safety Features



Air Products Today only US-based global industrial gas company

\$12.7	21,000+	50+
billion in FY22 sales	employees	countries
~70B	80+	200,000+
market cap	years in business	customers
1,800	750+	30+
miles of industrial	production	industries
gas pipeline	facilities	served



Air Products Public

Air Products is...

- World-leading industrial gases company in operation for over 80 years with 60+ years of global hydrogen experience
- Safety and sustainability a core value: Grow, Conserve, Care
- Industry leader across several hydrogen technology platforms and in pipeline design, operations and safety
- Recognized expert at developing multi-source, multi-customer production and distribution networks; significantly improving efficiency by scale and modern technology
- Member of the Hydrogen Council, a global CEO-led initiative with a united and long-term vision to develop the hydrogen economy









Hydrogen Council



Hydrogen summary

- Most abundant element in the universe
- No CO2 emissions, produces only water during combustion
- Very light, rises quickly as a gas
- As a liquid only weighs 0.6 lbs/gallon vs. 8.3 lbs/gallon for water







Total Safety Philosophy

Maintaining a safe workplace is a **fundamental and moral responsibility.**



We take the approach that all accidents are preventable. The only acceptable goal is **zero** accidents and incidents. We will strive toward that goal in **every location**, **every day**.



Massena Facility Safety Design

Plant Design

- Proper material selection & fully welded systems
- Pressure relief devices for overpressure protection
- Ambient gas monitoring for leak detection
- Mechanical integrity inspections to ensure system integrity for the life of the facility

Fleet Transportation

- 60 years transporting LHY on roadways with no inner tank failures or liquid release
- Trailers are constructed per DOT / ASME vessel designs, specific for liquid H2
- Regulatory inspections routinely conducted on fleet





Air Products Hydrogen Capabilities

Harry Johnston Director Large Project Business Development Air Products



Hydrogen and Battery Electric are Complementary Ways to Decarbonize



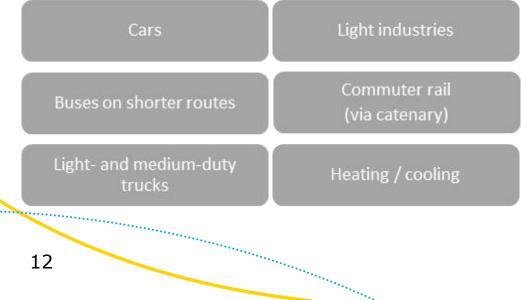
Electricity & Battery Electric Technologies



Hydrogen & Fuel Cell **Technologies**

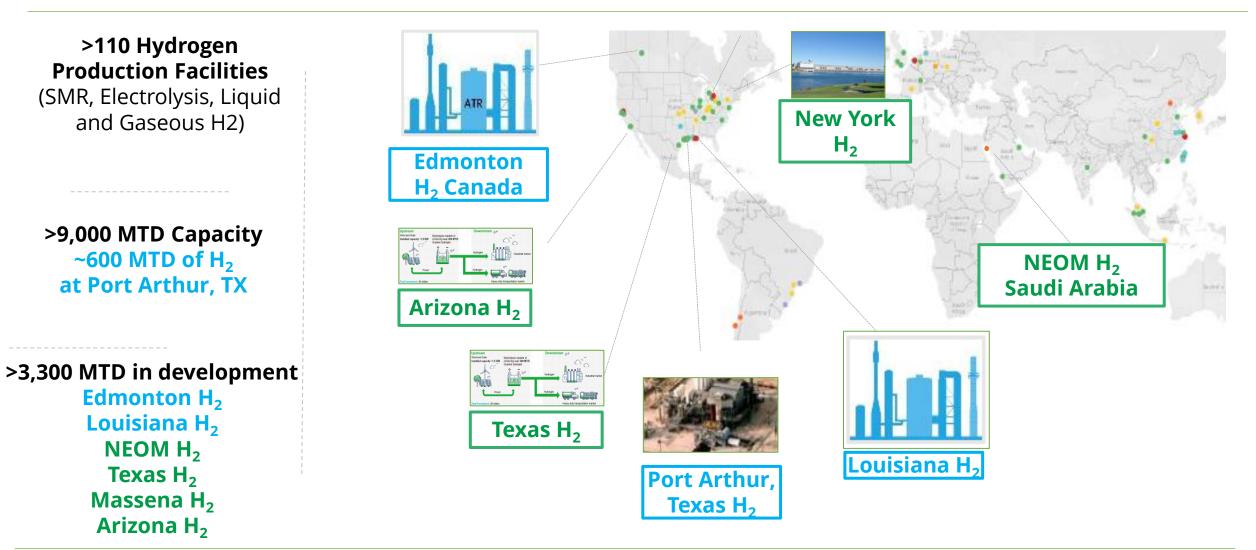






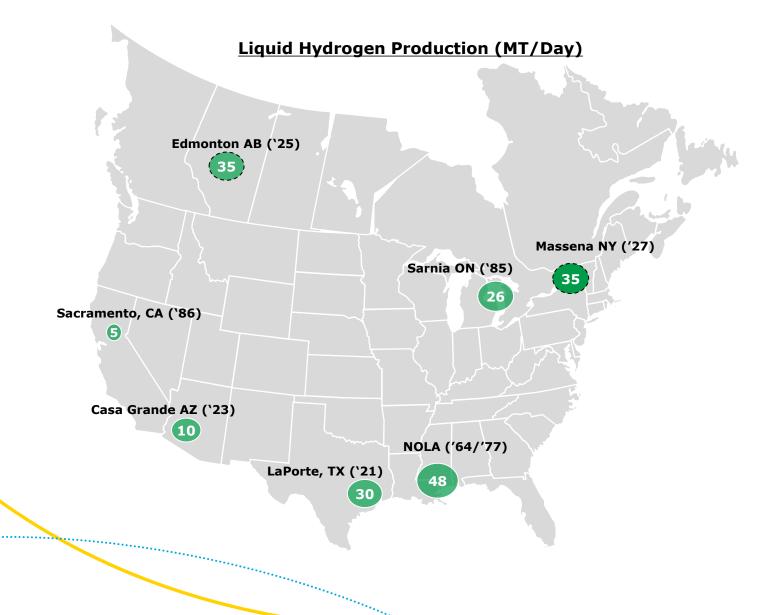
Hydrogen Production

Leading the transition to low carbon hydrogen





Liquid Hydrogen Production & Distribution



15 Million miles driven / Year

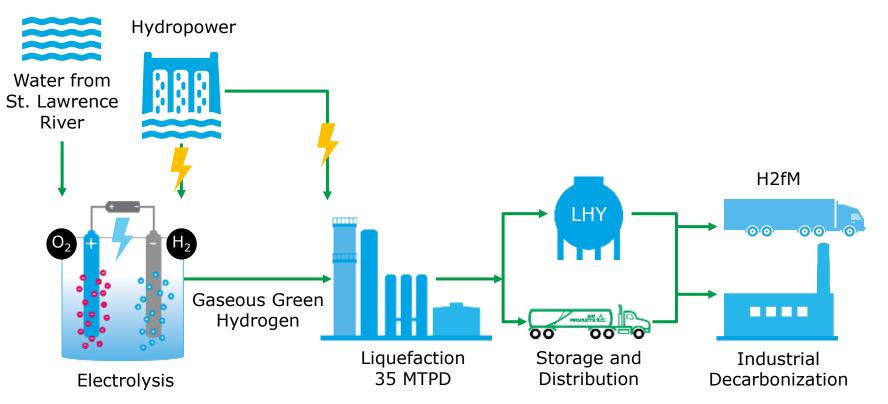








Hydrogen for mobility and industry



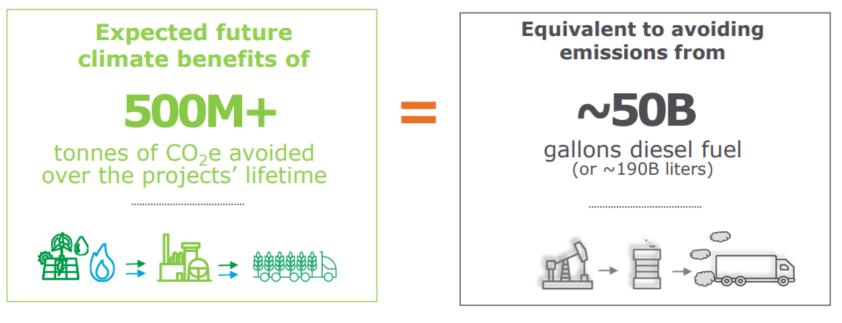
- Capital: ~\$0.5 billion
- Ownership: 100% Air Products
- Production: 35,000 kg/day of carbon-free Hydrogen
- Start of production: 2026/27
- Environmental Impact: **6 million tonnes of CO2 avoided** (equivalent to 600 million gallons diesel)



Future Climate Benefits of Air Product Projects

Zero- & low-carbon H2 projects in execution

If all the H₂ from Air Products' projects is used for the heavy-duty truck market:



Air Products Projects

Traditional Oil Supply



Massena Project Overview

Jonathan Traynor Senior Project Manager, Air Products



Massena Project Overview

Jonathan Traynor – Senior Project Manager, Air Products

- Review of Project Development Plans
 - Description of buildings
 - Description of other process equipment
- Construction timeline
- Job Opportunities











Massena Environmental Review

Eric Kenna Department Manager, C&S Engineers Inc.



Project Environmental Review

SEQRA Compliance

- Site / Setting
- Zoning Actions / SEQR
- Water Source
 - Process Water / Potable Water
- Water Discharge
 - Process Water / Sanitary
- Stormwater
- Wetland Impacts





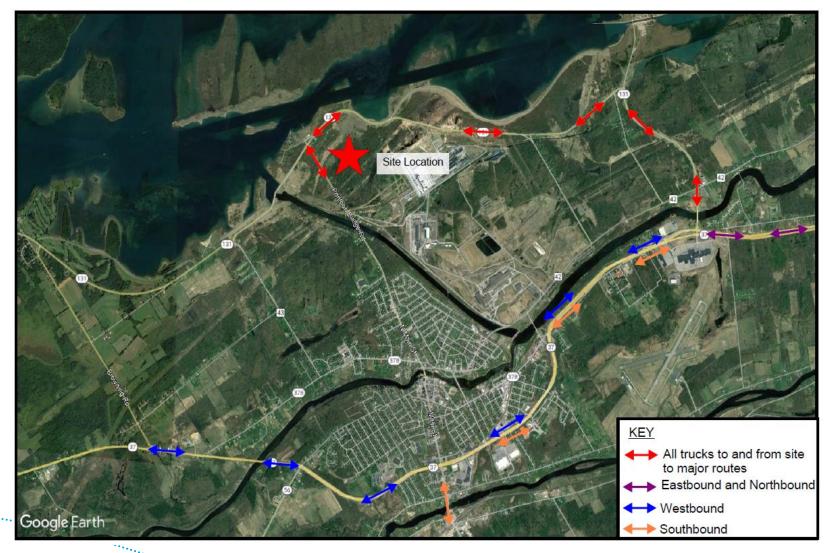
Project Environmental Review

Permits / Approvals

- SPDES Permit for Process Water Discharge NYS DEC
 On Site Septic System
- SWPPP for disturbance over 1 acre NYS DEC
- Wetlands
 - -Site Jurisdictional Determination USACE
 - Process Water Discharge USACE Permit under Section 404
 - NYSDEC Water Quality Certification
- Air Registration Only No Permit Required



Project Environmental Review Traffic Study -Overview of Traffic Impacts



PRODUCTS

Thank you tell me more

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