

# Imagine a Canada . . .

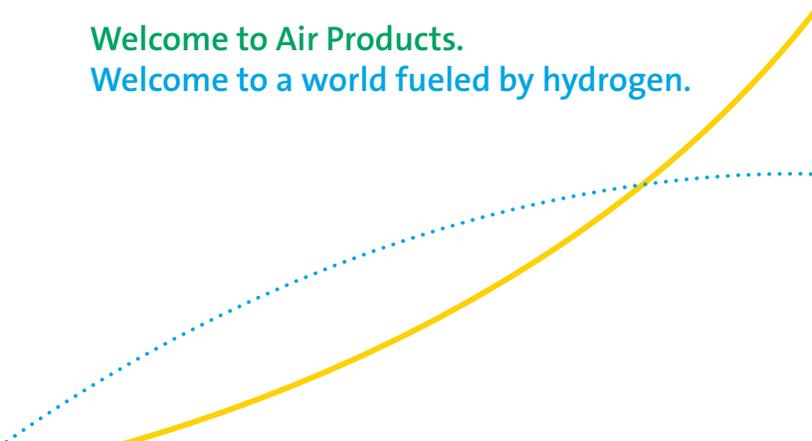


. . . where people from all walks of life come together to solve some of the greatest sustainability challenges.

. . . where Canadian resources and expertise attract global investment, creating pathways for a cleaner future for our planet.

. . . where we work alongside each other to become engines of economic growth and sustainable development.

**Welcome to Air Products.**  
**Welcome to a world fueled by hydrogen.**



Air Products is a world-leading industrial gases company in operation for over 80 years focused on serving energy, environmental, and emerging markets. The Company has two growth pillars driven by sustainability. Air Products' base business provides essential industrial gases, related equipment and applications expertise to customers in dozens of industries, including refining, chemicals, metals, electronics, manufacturing, and food. The Company also develops, engineers, builds, owns and operates some of the world's largest industrial gas and carbon-capture projects, supplying world-scale clean hydrogen for global transportation, industrial markets, and the broader energy transition. Additionally, Air Products is the world leader in the supply of liquefied natural gas process technology and equipment, and globally provides turbomachinery, membrane systems and cryogenic containers.

MEMBER OF:



**\$12.7**  
billion in FY22 sales

**21,000+**  
employees 

 **50+**  
countries

 **8+**  
decades in business

**~\$65** billion  
market cap

**200,000+**  
 customers

**2900** km  
of industrial gas pipeline 

 **750+**  
production facilities

 **30+**  
industries served

Sustainability is one of our core values and is at the heart of what we do.



“

At Air Products, we share society’s concerns about the impacts of climate change on our environment. Sustainability is one of our core values and is at the heart of what we do as a leading global industrial gas company. We produce products that improve the environment and make our customers’ processes better, making them more efficient, reducing emissions, and increasing productivity. Our higher purpose is bringing people together to innovate and collaborate on solutions to energy and environmental challenges, and we see significant opportunities for gasification, carbon capture technologies and hydrogen for mobility and energy transition. Every day we come to work excited about the future we are building with our customers.

”

**Seifi Ghasemi**  
Chairman, President and CEO

## Growth and sustainability

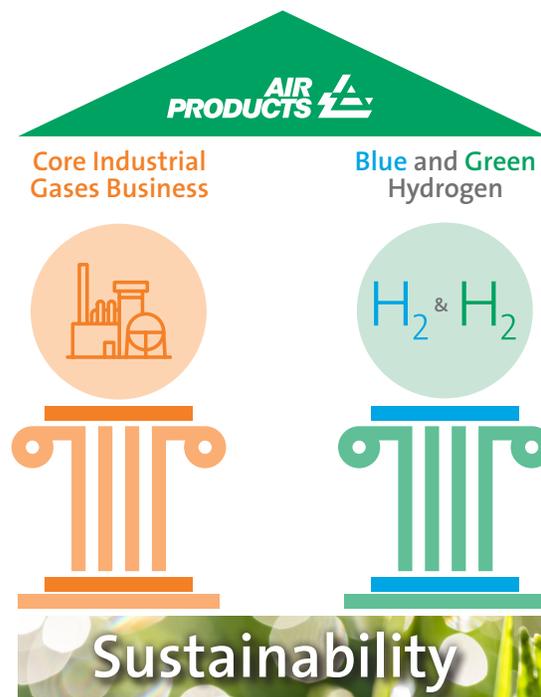
# Sustainability is our growth strategy at Air Products.

Sustainability creates our growth opportunities, and our growth opportunities support our sustainability goals and focus.

The world's future depends on low- and zero-carbon solutions. It's a future we believe in, and why Air Products is not waiting. We are a first-mover with significant experience in strategic investment and megaprojects. We are implementing world-scale hydrogen projects now which are essential for the energy transition and reflect Air Products' higher purpose as a company.

It's clear that the world will need a variety of technologies and solutions to achieve its climate and energy goals. Today—here and now— we do have the technologies required to make all types of hydrogen. Our multi-billion-dollar blue hydrogen projects in Alberta and Louisiana, and the green hydrogen project with ACWA Power and NEOM in Saudi Arabia—enable us to put demonstrated capabilities in production, distribution, and dispensing technologies into action. Knowing that low-carbon hydrogen will be available helps drive demand in end-markets and encourages them to begin transitioning in readiness.

### Two Pillars of Our Strategy



## Know us



# The world's largest hydrogen producer

Air Products is the world's largest hydrogen producer, with over 60 years' experience. We work across all facets of the hydrogen value chain – from production to distribution, storage and dispensing.

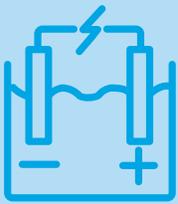
We work together with our customers, providing hydrogen solutions to support them on their sustainability journey. And we partner with select industry experts and governments on large-scale solutions.

Together we are providing lower-carbon and zero-carbon hydrogen solutions that address some of the world's most significant energy and environmental challenges, moving us all toward a cleaner energy future.

# Providing end-to-end-solutions

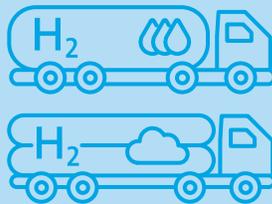
Reliability of supply matters. From production to distribution to hydrogen fueling stations, we deliver a complete service for our customers.

**Our offer:** a dependable supply of hydrogen, leading technology and equipment, and proven expertise.



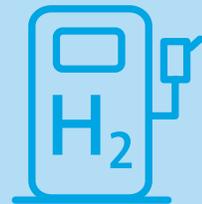
## H<sub>2</sub> production

We offer a wide range of production options from a variety of feedstocks – from onsite generation to reduce distribution costs and ensure reliability, to renewable or low-carbon hydrogen.



## H<sub>2</sub> distribution

Hydrogen can be distributed in a range of ways based on a customer's needs. Liquid hydrogen supply is ideal for the conversion of mass transit and heavy-duty vehicle markets thanks to large scale storage, supply reliability, efficiency and low-cost delivery. High pressure gas deliveries and extensive pipelines ensure stations can be deployed in urban areas and reduce station complexity.



## H<sub>2</sub> fueling

Whether it's in the United Kingdom, the United States, Saudi Arabia, China or South Korea, we supply hydrogen fuel via fueling stations in over 20 countries. We've supplied major international projects like the Olympics and Air Products can design, build and operate the systems for you.

# Visible on a world stage

We are proud to be at the centre of globally significant hydrogen projects.

**THE WORLD'S MOST COMPETITIVE AND LOWEST-CARBON-INTENSITY HYDROGEN NETWORK**



**Working together with the Government of Canada and the Province of Alberta**, we are delivering a large-scale plan to build a landmark new net-zero hydrogen energy complex.

**THE WORLD'S LARGEST GREEN HYDROGEN PROJECT**



**The NEOM green hydrogen project in Saudi Arabia** is the world's largest based on proven, world-class technology - and it's a game changer in how the world gets its energy.

This multi-billion dollar project is equally owned by Air Products, ACWA Power and NEOM. It will supply 650 tons per day of carbon-free hydrogen for transportation globally, with Air Products the sole off-taker, and save the world three million tons per year of CO<sub>2</sub>.

**LANDMARK U.S. \$4.5 BILLION LOUISIANA BLUE HYDROGEN CLEAN ENERGY COMPLEX**



**The Louisiana Blue Hydrogen Clean Energy Complex** megaproject will produce over 750 million standard cubic feet per day of blue hydrogen and capture over five million metric tons per year of CO<sub>2</sub>.

# At the forefront of hydrogen fueling

We're proud to be a first mover in large scale, clean hydrogen production.

We operate the world's largest hydrogen pipeline system and are a first-class liquid hydrogen supplier.

We have hands-on operating experience with over 250 hydrogen fueling station projects in 20 countries.

Our technologies are used in over 1.5 million fueling operations annually.

The world's largest hydrogen producer with



proven reliability

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1,100+ kilometers of pipeline

>32 billion Nm<sup>3</sup>/year

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**H<sub>2</sub>** The world's longest H<sub>2</sub> pipeline system and world class liquid hydrogen supplier

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25+ years safe fueling

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250+ hydrogen fueling projects worldwide

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30+ H<sub>2</sub> Electrolyser projects

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20+ countries

Unique product offering for H<sub>2</sub> fueling

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1,500,000 fuelings per year



13 million total fuelings

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~50 patents for hydrogen fueling



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# Capabilities to drive sustainability ambitions



Hydrogen  
Global  
Leadership



Large  
Project  
Capabilities



Hydrogen for  
Mobility



CCUS Expertise



Operational  
Excellence

## Executing global megaprojects that enable a transition to a cleaner energy future.

Looking forward, Air Products is building and operating the next generation clean hydrogen production facilities enabling globally competitive low- and zero-carbon energy products, establishing the foundation of a “zero carbon emissions” future in Canada and globally.



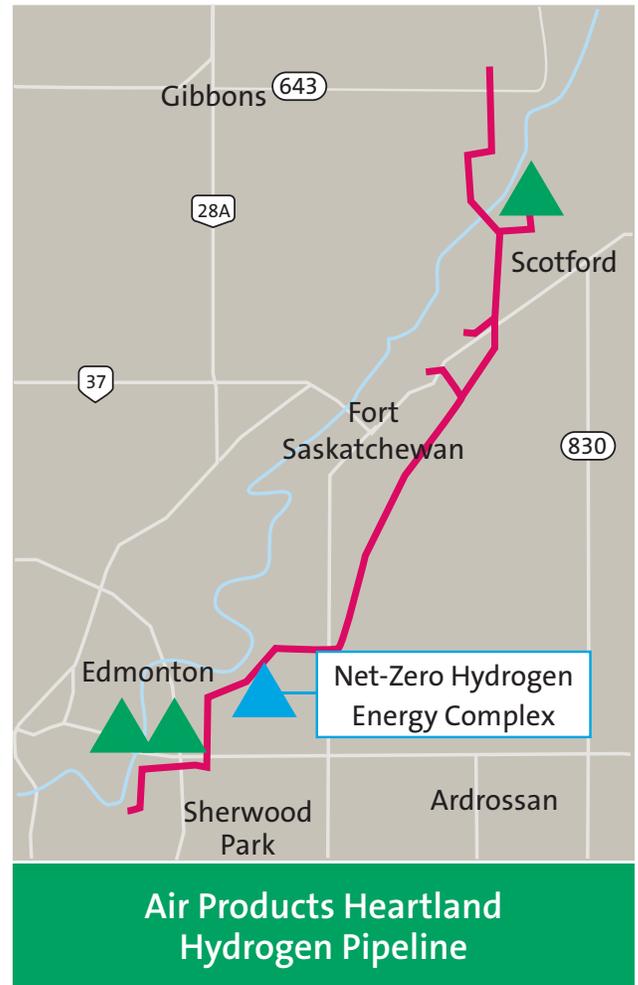
# Western Canada's Net-Zero Hydrogen Energy Complex Edmonton, Alberta

# Air Products Canada Ltd.

With over 40 years of experience operating in Canada with proven exceptional reliability performance, Air Products Canada, a subsidiary of Air Products and Chemicals, is proud to serve customers across Canada with safe and reliable industrial gases.

Specific to hydrogen:

- In Ontario, Air Products Canada owns and operates a world-scale hydrogen production facility, 10km pipeline delivery network, liquefaction facility and liquid hydrogen distribution network serving customers across eastern Canada and the US.
- In Alberta, Air Products Canada owns and operates three world scale hydrogen production facilities and a 55km pipeline delivery network supplying refining and petrochemical customers across the Alberta Industrial Heartland region. The addition of our new net-zero hydrogen energy complex will make Alberta home to the world's most competitive and lowest carbon intensity network.



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With our highly educated population, natural resources and a collaborative approach between government and business, Canada is well positioned to be a leader in the global energy transition.

”

**Rachel Smith**  
**Air Products Vice President and**  
**General Manager, Canada**

# Western Canada’s net-zero hydrogen energy complex

## Air Products’ net-zero hydrogen energy complex is a game-changer for Canada.

Now under construction, this complex will make Edmonton the centre of western Canada’s hydrogen economy and set the stage for Air Products to operate the lowest-carbon-intensity hydrogen network in the world. The project will advance Canada’s action on climate change, while creating local jobs and economic opportunity.

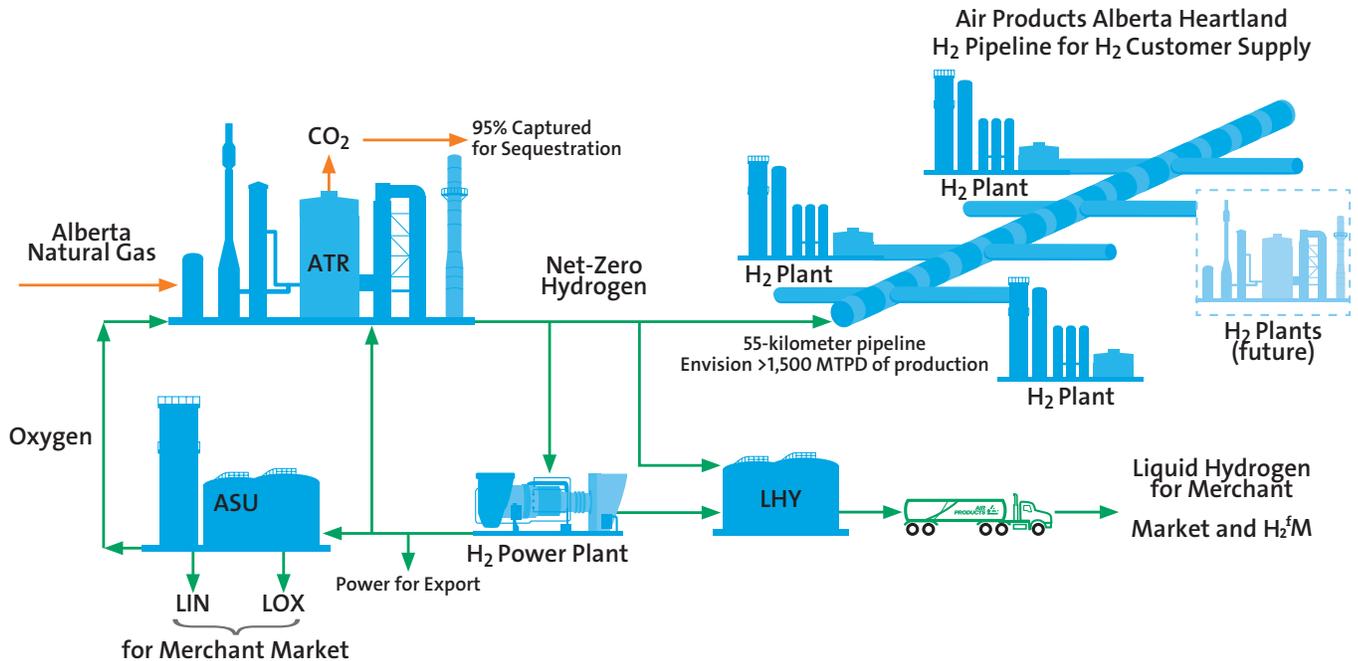
### Advance the Western Canadian economy

- Invest multi-billion dollars in local community
  - Create 2,500+ construction and engineering jobs
  - Fuel a clean hydrogen economy in the region
  - Utilize local energy infrastructure and skills
  - Generate cascading benefits for years to come
- 

### Accelerate Canada’s energy transition

- Produce net-zero greenhouse gas emissions
  - Employ proven advanced technology and unique net-zero configuration
  - Create new liquid hydrogen supply for transportation
  - Demonstrate 100% hydrogen-fueled power generation
  - Decarbonize refining, petrochemical, transportation and power generation sectors
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The complex includes advanced technology and a unique combination of assets and utilities that together make net-zero performance possible. While this is a “blue hydrogen” facility, meaning that it uses natural gas as the feedstock and carbon capture with permanent sequestration, it will be the largest net-zero hydrogen complex in the world.



LHY – liquid hydrogen	ASU – air separation unit
LIN – liquid nitrogen	CO <sub>2</sub> – carbon dioxide
LOX – liquid oxygen	H <sub>2</sub> – hydrogen
ATR – autothermal reformer	H <sub>2</sub> <sup>f</sup> M – hydrogen for mobility

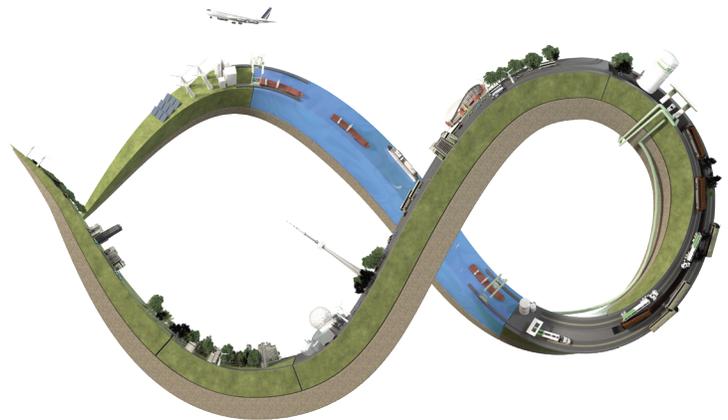
It will be the largest net-zero hydrogen complex in the world.

See us

Wherever you go in the world,  
you're likely to find a part of  
Air Products' end-to-end  
hydrogen offering.

Whether it's a large-scale production facility,  
a section of our 1,100 kilometers of pipeline, a  
refueling station or a vehicle powered by our  
supply – we're working worldwide to aid the  
transition to a cleaner energy future.

**H<sub>2</sub>fM<sup>®</sup>**  
Hydrogen for Mobility





Generating a Cleaner Future

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