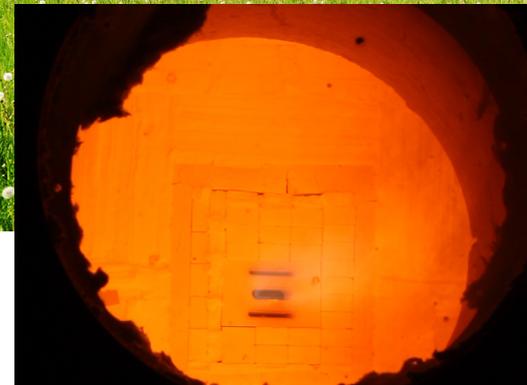


Hydrogen . . .



your sustainable partner for industrial energy transition

Generating a Cleaner Future

60+ years of hydrogen experience with reliable and safe gas supply

The world's largest hydrogen producer with



proven reliability



1,100+
kilometers of pipeline
>32 billion Nm³/year



The world's longest H₂ pipeline system and world-class liquid hydrogen supplier



110 H₂
production facilities

~50
patents



for hydrogen fueling



30+

H₂ Electrolyser projects

Unmatched experience in hydrogen production, distribution and applications

H₂ Production – Wide range of production options (Green, Blue or Grey hydrogen)

- Low carbon/renewable hydrogen for atmosphere and melting processes in glass and metals
- Onsite generation for reduced distribution costs
- Ample supply of renewable hydrogen from a global network of renewable energy imports
- Hydrogen production from variety of feedstocks to customer requirements



Steam Methane Reforming



Liquid Hydrogen



Onsite Generation via electrolyser

Distribution – Distribution modes easily adapted to your hydrogen needs and location

Industrial gases are typically provided in gaseous and liquid form through a variety of supply systems. Air Products' gas experts will help you determine the most economical supply option for your specific application and geographic location.



Cylinders and Cylinder Packs



Tube Trailers



Liquid Bulk Delivery and Storage Solutions



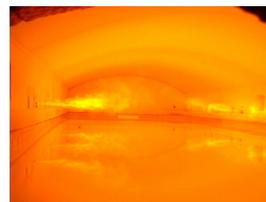
Onsite Gas Generation

Generating a Cleaner Future through our applications in the industry

Our Offer: A dependable supply of hydrogen, leading technology and equipment, and proven expertise

When you need hydrogen to create the right atmosphere in your heat treatment process, or for melting processes in the glass and metals industry, Air Products – as a global leader in hydrogen – can supply you with the right solution, volume and purity. And, in the near future, we will supply blue and green hydrogen to reduce your emissions.

- Atmosphere solutions for heat treatment of metals and other materials
- Annealing, brazing, carburizing, hardening and sintering atmosphere solutions
- Atmosphere control in glass manufacturing to help prevent detrimental reactions to the glass forming process
- Industrial gases for more efficient heat treating and forming of glass
- State-of-the-art solutions for melting glass operations
- Oxy-fuel technologies and hydrogen as a fuel for ferrous and non ferrous melting operations
- Oxy-fuel thermal spray for critical-wear parts in aeronautical industry
- Fueling for mobility



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At Air Products
we are generating
a cleaner future
by leading the
industry in energy
transition.
.....

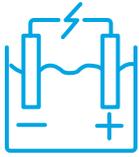
As well as green and blue hydrogen, our innovations include:

- Combustion systems and low-carbon intensity fuels, like hydrogen, that provide a practical path to decarbonise and reduce the carbon footprint of industrial production.
- Smart Technology systems that help reduce energy consumption, improve process efficiency and product reliability, while reducing carbon footprint.
- Metals solutions that reduce rejects and improve product quality by creating the right atmosphere composition for heat treatment processes.

Hydrogen Safety

As a world-recognised safety leader in the Industry, we are committed to operating safely and sustainably.

Hydrogen Safety Ecosystem



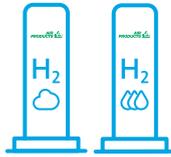
Production

- Electrolysis
- Chemical Byproduct
- Steam Methane Reforming
- Carbon Capture



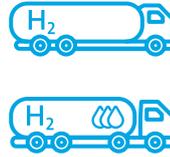
Conditioning

- Compression
- Liquefaction



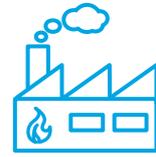
Storage

- Industrial Storage
- Mass Storage



Transport

- Pipeline
- Cylinders
- Bulk Transport (Gas)
- Bulk Transport (Liquid)



Applications

- Atmospheres
- Combustion
- Feedstock Industry
- Fuel for Transport
- Heating

For more information,
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