

Air Liquide in Brief

Air Liquide is a world leader in gases, technologies and services for Industry and Health

Key figures:



Our ambition is to be a **leader in our industry**, to **deliver long term performance** and to **contribute to a more sustainable world**.

OUR PROFILE

~ 67,000 committed employees in 80 countries



+ 3.7 million customers and patients

Extensive scientific and technical expertise in industrial gases (oxygen, nitrogen, hydrogen, etc.)

Air Liquide

A world leader

in industrial

gases

and related

services

A unique

model



4,300 employees contributing to innovation





Innovation Campus





2 industrial gases production modes





3 industrial gases distribution networks





24 millions cylinders for small quantities

+10.000 trucks for medium quantities

OUR BUSINESS MODEL



Long-term vision and clear strategy



A wide range of customers and applications





Major ability to innovate





Long-term customer contracts, indexed to energy prices





Management and optimization of production and distribution chain





Active involvement in new markets





Global presence and local activity

OUR ACTIVITIES

LARGE **INDUSTRIES**

26%^(a)

Industrial gases in large quantities in the framework of long-term partnerships

INDUSTRIAL MERCHANT

44%^(a)

Industrial gases in small and medium quantities, applications, small equipment and related services serving a wide range of customers

ELECTRONICS

9%^(a)

Ultra-pure gases in large quantities and development of new molecules

HEALTHCARE

Medical gases, products and services to support patients and clients in the hospital and at home

GLOBAL MARKETS & TECHNOLOGIES 3%(a)

Molecules, equipment and services to support the markets of energy transition and deep tech(b)

ENGINEERING 1% (a) & CONSTRUCTION

Plants and equipment for industrial gas production

TO SUPPORT ALMOST **ALL ECONOMIC SECTORS**



- **▶**Chemicals
- ▶Refining & energy
- **▶**Metals



- ▶ Materials & energy
- ▶ Automotive & manufacturing
- ▶Food & pharmaceuticals
- ▶Technology & research
- ▶Entrepreneurs & distributors
- Semiconductors
- ▶Flat panels
- ▶ Photovoltaic



- Home healthcare
- Hygiene & specialty ingredients



Deep tech(b)

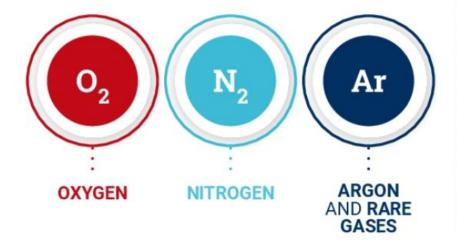


Customers choosing to insource their industrial gas needs

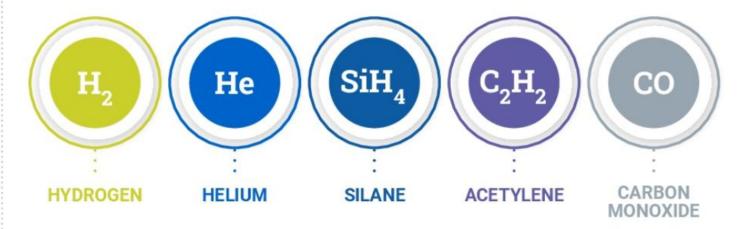
Our scientific territory: Essential small Molecules

Oxygen, nitrogen and hydrogen are essential small molecules. They embody Air Liquide's scientific territory and have been at the core of the company's activities since its creation in 1902.

Separating the components of **air** to take advantage of their properties



Producing molecules from the **natural resources** of the planet





Air Liquide Technology Portfolio

Feedstock

Gas Production

Downstream

MeOH

DME,

MTP

Natural Gas

Biogas Refinery Offgas LPG Naphtha

Renewable Fuel

Offgases



SMR

SMR-X



ATR



MPG



Isoth. / MT-

CO

Shift

HT- /

MT-



aMDEA /

FG Wash

CO

Removal

RectisolTM

RecticapTM

Cryocap H₂TM

Cryocap FGTM

Cold Box

Gas Conditioning & Purification

Membrane



CO





Liquefier

CO

Liquefier

 H_2

CO

Products

Syngas $H_2 + CO$

CO,

N₂

NH³

MtG

MtK

Residual Oil

REN Electricity







Purification and compression

Liquefaction

H, & O,

AIR LIQUIDE, A WORLD LEADER IN GASES, TECHNOLOGIES AND SERVICES FOR INDUSTRY AND HEALTH



Investment Studies, **Conceptual Design &** FEED 2

Licensing Engineering Services & **Proprietary Equipment** **Integrated Solutions**

Technical Service & Spare Parts



Process Technology



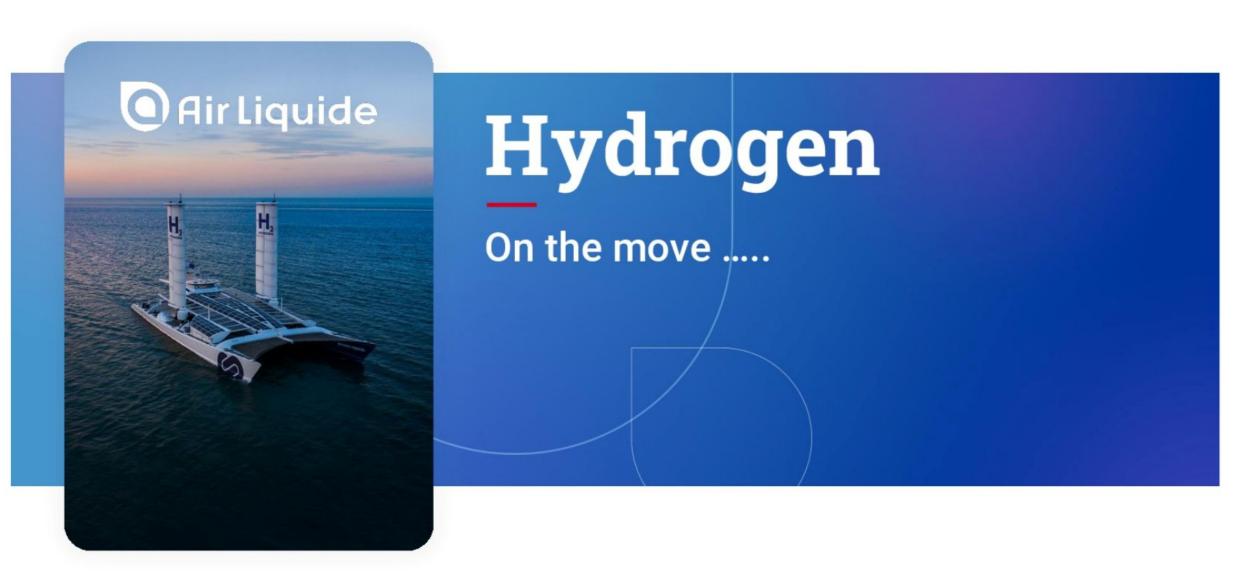
High-end Engineering & Design Capabilities



Engineering, Supply, Project Management & **Execution Services**

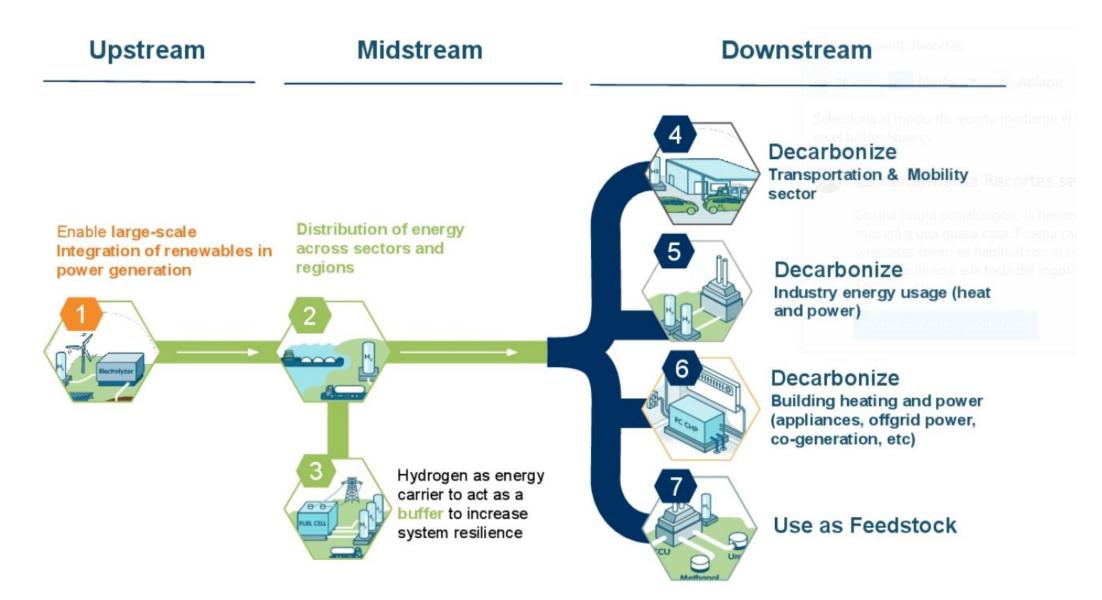


Start-up, Operations & Maintenance **Support**



Air Liquide's partnership with Energy Observer....

Seven Roles for H2 in the Energy Transition



Hydrogen at the Cornerstone of ET

2050





Transportation



Industry energy



Building heating and power



Industrial feedstock (CCU, DRI)

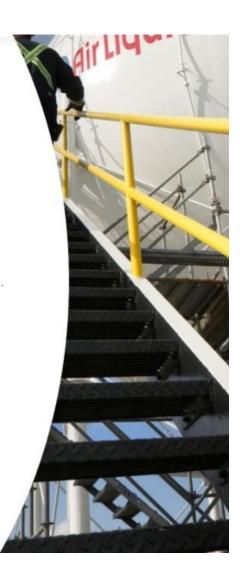


Our ENGAGEMENT

Decarbonize our production assets
to develop a competitive low-carbon
H₂ offering at large scale.

 Creating value by decarbonizing our customer's processes, leveraging our long-term relationships.

Be a key enabler of the Hydrogen society thanks to our assets, technology and expertise.





CCS (Carbon Capture Storage)

Emerging CO2 value chain

..... 65 CCUS projects in Europe

CCS as key for accelerate ET



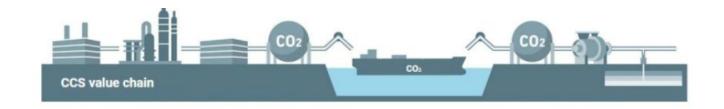
Air Liquide expertise:

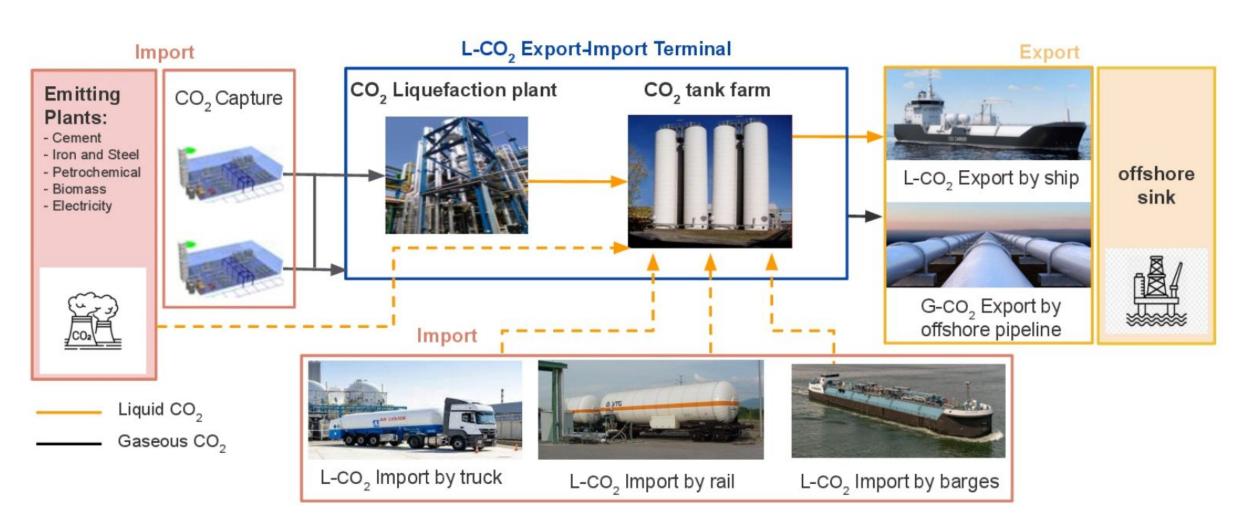
- Various CO2 capture technologies for different flue gas compositions (Cryocap FG/Oxy, Amine wash, Rectisol)
- CO2 compression, liquefaction and storage expertise
- Has CO2 pipeline experience
- Provides CO2 supply as service

Key project examples:

- F CRYOCAP™, Port-Jérôme, Carbon Capture
- Antwerp@C, Antwerpen, CO2 infrastructure
- Northern Lights, CO2 infrastructure,

General Concept of CO2 hub





CH₂ANGE WITH HYDROGEN

Thank you

Air Liquide