



 Air Liquide

# Air Liquide *in brief* 2022

 Air Liquide

**Air Liquide,  
a world leader  
in gases,  
technologies  
and services  
for industry  
and health**

Air Liquide serves a very wide variety of customers around the world, acting as a partner to nearly every sector of the economy. The industrial and medical gases at the core of the Group's business are used in numerous industrial processes, such as water treatment, glass manufacturing, preservation of fresh food and farming. They are present in consumer products (including food, beverages, smartphones, cars and more), hospitals and patients' homes.

The Group's presence in the field, alongside small businesses, large companies and healthcare professionals alike, enables it to detect new needs through a customer-centric approach. It is therefore able to develop a deeper understanding of the changes in various markets in order to offer innovative solutions to meet its customers' needs.

**67,100**  
employees

**73** countries

**>3.9M**  
customers and patients

**3,600**  
employees contributing  
to innovation

**~750,000**  
individual shareholders

**A  
strategy  
guided  
by ADVANCE,  
our 2025 plan**

The Group is pursuing its ADVANCE plan, placing sustainable development at the heart of its strategy and positioning itself on the path to global performance that combines financial and extra-financial performance.

This plan is built on four pillars:

- Delivering strong financial performance
- Decarbonizing industry and mobility
- Unlocking progress through innovation
- Acting for all by taking into account the interests of all our stakeholders.

## **2022 Performance**

Revenue

**€29,934M**  
+7%<sup>(1)</sup>

Net profit  
(Group share)

**€2,759M**  
+7.3%

**CO<sub>2</sub> emissions  
remained stable**  
for the second  
consecutive year  
in a strong business  
growth context

Investment decisions

**~€4bn**

**31.5%**  
of engineers and  
professionals in 2022  
were women, with an  
objective of reaching 35%  
by 2025

**42%**  
of employees benefited  
from the common basis  
of care coverage in 2022,  
with a target of 100%  
coverage by 2025

2022 figures

(1) On a comparable basis (excluding currency, energy effects and excluding significant scope).



# Our activities

Air Liquide provides industrial and medical gases, technologies and services to nearly every sector of the economy.

## FOR INDUSTRY

We serve a wide range of customers, from craftsmen to large companies, in sectors as diverse as steel production, energy, chemicals, automotive manufacturing, food and aerospace.

**2M**

industrial customers  
in 73 countries

## FOR PATIENTS AND HEALTHCARE PROFESSIONALS

We provide medical products and services to meet the needs of patients, doctors and care facilities. Present in both hospitals and patients' homes, our Group is a committed partner of transformation in the healthcare sector.

**1.9M**

patients supported by Air Liquide  
in 2022, 49% of whom are following  
a personalized care pathway

## FOR ELECTRONICS

We innovate for our electronics customers, who use our gases and advanced materials for the manufacturing of flat screens, processors and smaller, faster chips.

**-133K**

metric tonnes of CO<sub>2</sub> in the electronics  
industry in 2022 thanks to enScribe™,  
our range of advanced materials

## FOR OPENING NEW MARKETS

We develop new markets associated with the energy transition, such as the hydrogen and biomethane markets. We also provide technological solutions (molecules, equipment and services) that are essential to the implementation of major international scientific projects, such as ITER and the CERN particle accelerator, and deep tech<sup>(2)</sup> markets.

**22**

biomethane production plants worldwide  
with production capacity of 1.6 TWh  
per year

## Breakdown of Group revenue by activity

**2%<sup>(1)</sup>**

### ENGINEERING & CONSTRUCTION

Building plants and equipment for gas production at Air Liquide and for customers producing directly

**35%<sup>(1)</sup>**

### LARGE INDUSTRIES

Producing and delivering gases in large quantities for major industrial basins (chemicals, refining, etc.)

**38%<sup>(1)</sup>**

### INDUSTRIAL MERCHANT

Serving a wide range of customers, from craftsmen to big-sized companies, thanks to the Group's expertise in gases and processes

**13%<sup>(1)</sup>**

### HEALTHCARE

Providing gases, medical products and services to support our customers and patients, in hospital and at home

**9%<sup>(1)</sup>**

### ELECTRONICS

Designing, manufacturing and providing molecules and equipment for our customers in this sector (manufacturers of semiconductors, flat panels, etc.)

**3%<sup>(1)</sup>**

### GLOBAL MARKETS & TECHNOLOGIES

Providing technological solutions (molecules, equipment and services) for new markets related to the energy transition and deep tech<sup>(2)</sup>

(1) Share of 2022 Group revenue.

(2) Disruptive technologies based on scientific breakthroughs that can fundamentally change design and production methods.

# Acting as a leader in *decarbonizing* industry

## *Decarbonizing* our own operations

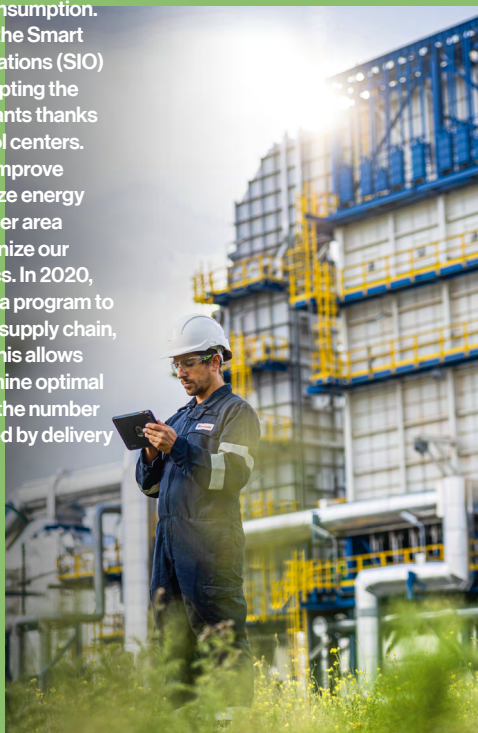
### Sourcing low-carbon energy

In order to reduce its indirect CO<sub>2</sub> emissions linked to energy use, Air Liquide is adopting a proactive approach by signing long-term contracts to purchase renewable and low-carbon electricity to supply its production units.

**-33%**  
CO<sub>2</sub> emissions  
by 2035<sup>(4)</sup>

### Improving the energy efficiency of our plants

We are constantly improving the design of our production units to reduce energy consumption. In addition, through the Smart and Innovative Operations (SIO) program, we are adapting the production of our plants thanks to our remote control centers. These enable us to improve reliability and optimize energy consumption. Another area of action to decarbonize our operations is logistics. In 2020, the Group deployed a program to digitize its liquid gas supply chain, notably using AI.<sup>(3)</sup> This allows Air Liquide to determine optimal routes, thus limiting the number of kilometers traveled by delivery trucks.



## *Helping* our customers achieve carbon neutrality

### Accelerating the deployment of CCS technologies

Today, carbon capture and storage (CCS) is one of the most effective ways to decarbonize industry in the short term. For 15 years, Air Liquide has been developing CO<sub>2</sub> management solutions, including Cryocap™, which uses cryogenics to capture up to 98% of emissions. Present throughout the CCS value chain, the Group is deploying large-scale projects in Europe and forging strategic partnerships.

### Developing hydrogen applications

Whether for industry or mobility, hydrogen has a key role to play in the energy transition. Drawing on more than 60 years of expertise in this molecule, Air Liquide deploys technologies across the entire low-carbon hydrogen supply chain. This technological mastery has led to many partnerships with major international companies.

**~€8bn**  
will be invested in  
the low-carbon hydrogen  
value chain by 2035

### Harnessing the potential of biomethane

Air Liquide is committed to developing biomethane, a key energy source for accelerating the energy transition and contributing to a circular economy. From biomass supply to biomethane production, and purification to transportation, the Group is positioning itself as a partner of choice for manufacturers, farmers and local authorities. Air Liquide already counts production sites throughout Europe, and is expanding its activities in China and the United States.

(3) Artificial intelligence.

(4) In metric tons of CO<sub>2</sub> equivalent from Scopes 1 and 2 on a "market basis," restated to take into account for a full year from 2020 and each year thereafter, emissions from assets, which correspond to changes in scope (both upwards and downwards) and which have a significant impact on CO<sub>2</sub> emissions. Scope 2 emissions calculated from the specific supplies (market-based): the Group hence adopted the methodology recommended by the GHG Protocol.

Air Liquide is a world leader in gases, technologies and services for industry and health. Present in 73 countries with 67,100 employees, the Group serves over 3.9 million customers and patients. Oxygen, nitrogen and hydrogen are essential small molecules for life, matter and energy. They embody Air Liquide's scientific territory and have been at the core of the company's activities since its creation in 1902.



**AIRLIQUIDE.COM**

See our annual publications on our website:  
Annual Report, Sustainability Report, Universal Registration Document,  
Shareholder's Guide.



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