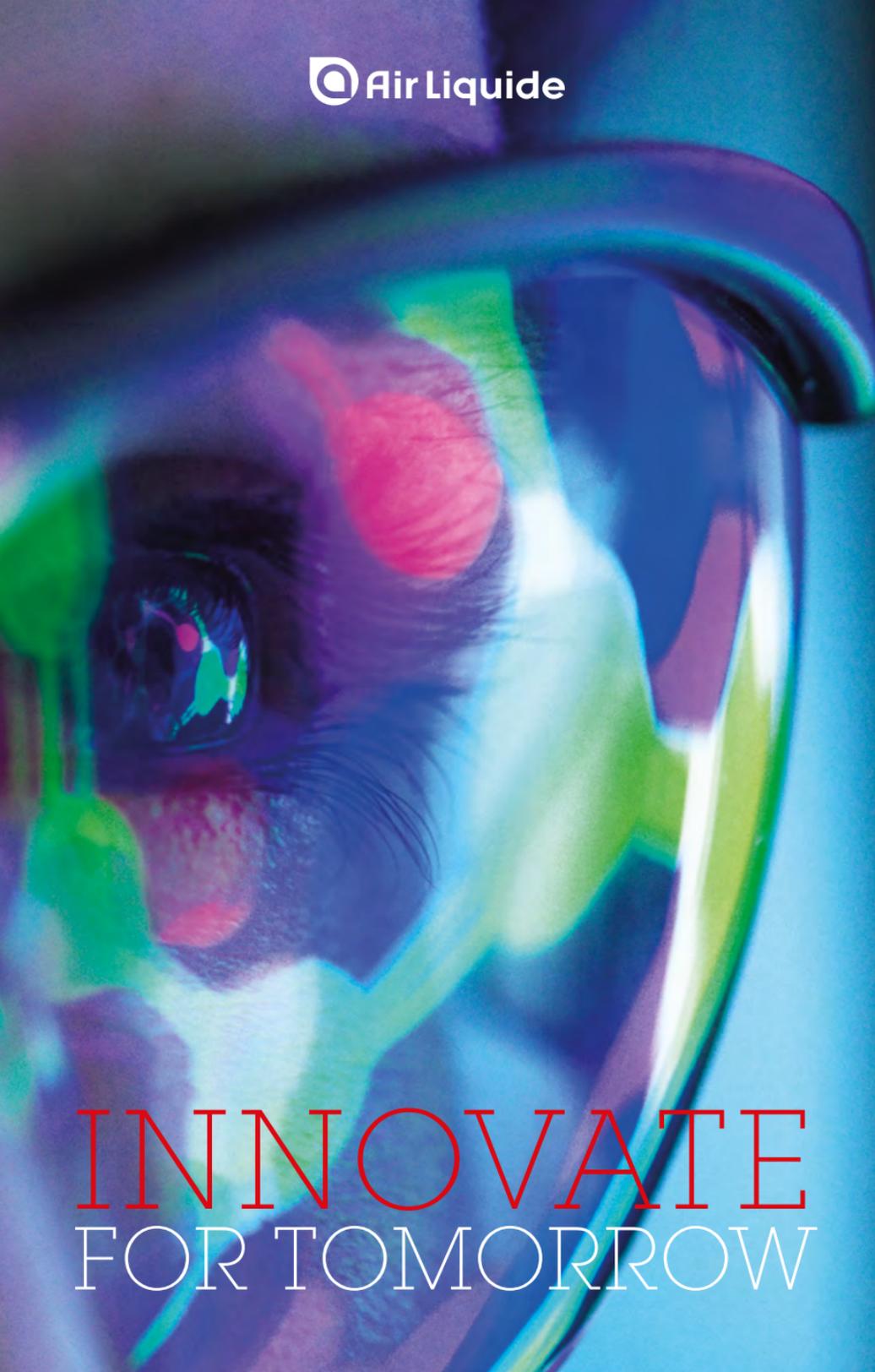


 Air Liquide

INNOVATE
FOR TOMORROW

INNOVATE FOR OUR CUSTOMERS AND PATIENTS

A BREAKTHROUGH PACKAGED GAS OFFER



The Group has developed Qlixbi in close collaboration with more than 700 European welding customers.

Qlixbi is a new generation of gas cylinder with a suite of digital solutions. It improves the welders' daily work thanks to an ergonomic design, information on the gas consumption and a digital app which supports better collaboration within welding shops.

CAPTURING INDUSTRIAL CO₂ EMISSIONS



In North Europe, the Group contributes to different carbon capture and storage (CCS) initiatives which handle large volumes of CO₂ emissions from the Antwerp and Rotterdam industrial basins. The CO₂ emitted will be captured and shipped safely either by ship (liquid) or pipeline (gaseous) to offshore natural sinks.

➤ **REDUCE CO₂ EMISSIONS FROM THE PORT OF ANTWERP BY HALF BY 2030**

LOW-CARBON HYDROGEN FOR INDUSTRY AND MOBILITY



To ensure supply of low-carbon hydrogen for both industry and mobility usage in North America, the Group built the largest electrolyzer in the world in Canada with a 20 megawatts (MW) capacity for the production of carbon-free hydrogen. This new production unit significantly reduces carbon intensity, compared to the traditional hydrogen production process. Nearly 27,000 tons of CO₂ emissions per year, the equivalent of 10,000 sedan cars, are prevented.

➤ **ZERO NOISE AND ZERO PARTICLE EMISSIONS**

A TECHNOLOGICAL SOLUTION TO REDUCE GHG IN THE MARITIME SECTOR



The shipped Liquefied Natural Gas (LNG) tends to evaporate and emit CO₂. The technological solution developed by the Group allows the natural gas boil-off to be reliquefied in LNG vessels in order to significantly reduce greenhouse gases emissions during transport, making maritime transport more efficient and reducing its impact on the environment.

➤ **CONTRIBUTION TO AVOID 290,000 TONS OF CO₂-EQUIVALENT EMISSIONS PER YEAR**

E-HEALTH FOR CHRONIC PATIENTS



To contribute to improving treatment compliance and quality of life of patients with chronic diseases especially cardiac, Air Liquide Healthcare, a pioneer in remote medical surveillance, scaled up its Chronic Care Connect™ solution in France. Thanks to a connected device, patients are monitored at home on a daily basis, with caregivers and an individualized support using digital.

MICROCHIPS WITH A SMALLER IMPACT ON THE ENVIRONMENT



The complex memory manufacturing process involves up to 800 different steps and requires around 300 gases and advanced materials. enScribe™, a family of advanced etching material, facilitates the manufacturing, while greatly reducing the environmental impact. When a major semiconductor customer adopts one of these molecules as a replacement to the baseline product, it has the potential to reduce the entire sector's GHG emissions by up to 1%.

➤ **CONTRIBUTION TO AVOID 140,000 TONS OF CO₂ EMISSIONS IN 2020**

WHEN BIOMETHANE SERVES THE CIRCULAR ECONOMY



Through its technologies and competencies along the entire biomethane value chain, Air Liquide purifies biogas from the fermentation of organic and agricultural waste to obtain biomethane. It is then injected into the domestic grid or liquefied for transportation, storage and distribution as a clean alternative fuel or as industrial fuel. In 2020, new developments were launched in Italy, in the UK, in Norway and in the United States, where the existing production units also ramped up. Air Liquide has 20 biomethane production units around the world with an annual production capacity of 1.3 TWh.

➤ **CONTRIBUTION TO AVOID 130,000 TONS OF CO₂ IN 2020**

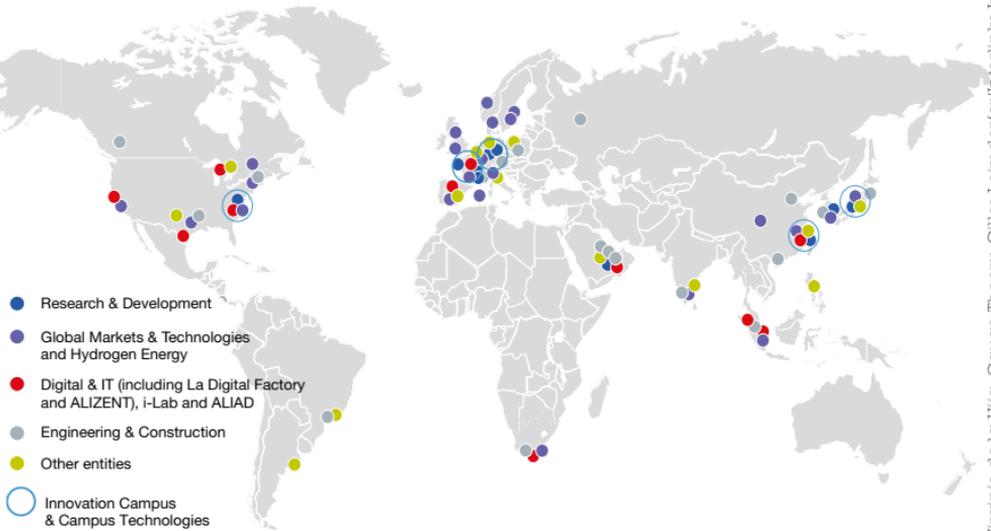
REMOTE OPERATION CENTERS



The Group drives in the industrial basins, seven remote operations centers to harness its production unit's datas.

By combining data science and human intelligence, these remote operations centers adapt the workflow of each production unit to the changing needs of customers. For example, the center in Dubai drives plants whether they are 300 km away in Oman or 11,000 km away in South Africa. Each center leverages predictive maintenance to ensure reliability and to optimize energy consumption, thus reducing the connected plant's carbon footprint.

OUR GLOBAL INNOVATION ECOSYSTEM



THE GROUP KEY FIGURES

64,500 employees
78 countries
3.8 million customers and patients
€20.485bn revenue
11,000 patents

CHANGE
by Air Liquide



INTERNET

www.airliquide.com



YOUTUBE

[Chaine Air Liquide Corp](https://www.youtube.com/ChaineAirLiquideCorp)



TWITTER

[@AirLiquideGroup](https://twitter.com/AirLiquideGroup)



LINKEDIN

linkedin.com/company/airliquide

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