



AIR LIQUIDE

Creative Oxygen

MEDIA KIT

Air Liquide in the U.S.

News Media Hotline – (713) 624-8594



AIR LIQUIDE IN BRIEF



World leader in gases, technologies
and services for Industry and Health.

AIR LIQUIDE IN THE US



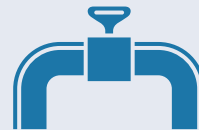
More than 5,000
US employees



Americas
headquarters:
Houston, Texas



200+ company
locations, including
over 140 industrial
gas plants



Approximately
2,000 miles
of pipeline



The Americas
account for 24%
of Air Liquide
sales worldwide

AIR LIQUIDE GLOBALLY



World leader in
gases, technologies
and services for
Industry and Health.



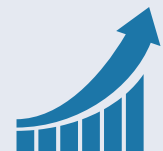
Present in
80 countries



Nearly 50,000
employees



Serves nearly
2 million customers
and patients



Revenue in 2015:
€ 16.38 billion

CAPABILITIES

Air Liquide is a leading global supplier of gases, technologies and services for Industry and Health. The company relies on the competitiveness in its operations and the diversity of its people to deliver high-quality, sustainable solutions.

- Industrial gas production – Oxygen, nitrogen, hydrogen and rare gases
- On-site industrial gas production
- Specialty gases & advanced precursor materials
- Robust distribution network
- Equipment & delivery systems
- Gas & chemical management
- Analytical & laboratory services
- Cogeneration – steam & electricity
- Research and development – Delaware Research & Technology Center
- Engineering & construction management



A FEW APPLICATIONS OF OUR PRODUCTS

Renewable Energy:

- Hydrogen fuel cell vehicles
- Waste-to-biogas energy

Automotive & Manufacturing:

- Manufacturing processes for metals, plastics and glass require nitrogen, oxygen, hydrogen and other gases
- Gases are used in heat treatment, welding and cutting applications
- Pneumatics, lighting, windscreens and windows

Space & Aeronautics:

- Oxygen and hydrogen are used as propellants for rocket launches

Glass-making:

- Uses oxygen, nitrogen, hydrogen and argon
- Argon is used in the double glazing process

Food & Pharmaceuticals:

- Nitrogen and oxygen are used in preservation and packaging applications
- Nitrogen and carbon dioxide are used in chilling, freezing and mixing applications
- Oxygen, ozone and carbon dioxide are used in water treatment processes

Refining and Natural Gas:

- Nitrogen is used for blanketing, drying, purging, inerting, etc.
- Hydrogen is used in refineries to remove sulfur from fuels and to “crack” heavy hydrocarbons
- Oxygen is required to transform natural gas or coal in fuels or methanol

Chemical Industry:

- Consumes huge quantities of air gases, hydrogen and carbon monoxide
- Hydrogen is used in the chemical synthesis process and to produce plastics, polyester and nylon
- Carbon Monoxide is used to make polyurethanes (foam) and polycarbonates (CD, DVD)

Metals:

- Oxygen is used in the steel industry to improve productivity and energy performance and to reduce emissions
- Nitrogen enables the transport of pulverized coal for feeding blast furnaces.

Argon is used to manufacture stainless steel

Healthcare

- Medical gases (oxygen, nitrous oxide) are medicines that relieve pain, anaesthetize, assist breathing and preserve cells

Technology & Research

- Gases are used to manufacture optical fibers, photo-voltaic cells and luminescent diodes.
- The flat screen, semiconductor and photovoltaic industries rely on ultra-pure gases and fluids.

Visit Air Liquide’s Gas Encyclopedia to learn about applications for 64 gas molecules, as well as their physical and chemical properties, safety information and more.



Web: <http://encyclopedia.airliquide.com>

Download the mobile app from:



U.S. BUSINESSES

The diversity of Air Liquide's teams, businesses, markets and geographic presence provides a solid and sustainable base for growth in the U.S. Air Liquide touches many industries, enabling customers to make products that are essential to everyday life.



Large Industries

Air Liquide Large Industries U.S. serves customers in refining and natural gas, chemicals, metals, and energy markets with large volumes of industrial gases and energy-saving solutions geared to improve process efficiency and reduce environmental footprint.



Industrial Merchant

Air Liquide Industrial U.S. supplies industrial gases in bulk quantities, clean energy solutions and related products and services to customers in a range of industries: food and beverage, automotive, metallurgy, pharmaceuticals, chemicals, laboratory and analysis, materials handling, healthcare and others.



Specialty Gases

Air Liquide America Specialty Gases supplies rare gases, specialty gas mixtures, ultra high purity gases and chemicals, and related equipment and services. Products are supplied in varying quantities and containers depending on customer needs.



Electronics

Air Liquide Electronics U.S. serves major electronics device manufacturers, supplying ultra-pure and specialty gases, new molecules, gas and chemical management services, and analytical and laboratory services. The company is fueling progress in the semiconductor, flat panel display and solar photovoltaic markets.



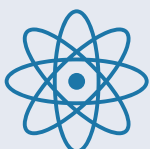
Healthcare

Air Liquide Healthcare America supplies hospitals and healthcare institutions with medical and therapeutic gases, specialty chemicals, and related devices, distribution equipment and services that contribute to improving quality of life for patients. For more information visit www.us.airliquidehealthcare.com



Engineering & Construction

Air Liquide Global E&C Solutions is a technology partner of choice for the design, engineering and construction of leading-edge production units and related infrastructure worldwide. Houston, Texas is home to one of Air Liquide's five engineering centers worldwide. For more information visit www.engineering-solutions.airliquide.com



Advanced Technologies

Air Liquide Advanced Technologies U.S. is a network of entrepreneurial, innovative, and agile companies that offer gas engineering solutions and highly specialized technologies for many markets: aeronautics, space, marine, scientific research, hydrogen energy and waste-to-biogas energy, pharmaceuticals and optoelectronics. For more information visit www.airliquideadvancedtechnologies.com

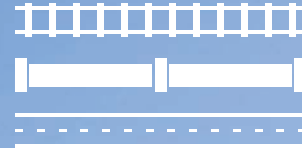
INDUSTRIAL GAS PRODUCTION AND DISTRIBUTION

Air Liquide's robust production and distribution networks are engineered to serve the needs of customers of all shapes and sizes.



Industrial Gas Production
(oxygen, nitrogen, hydrogen and rare and specialty gases and chemicals)

- 140+ production facilities
 - Air Separation Unit (ASU) – oxygen, nitrogen and hydrogen
 - Steam Methane Reformer (SMR) – hydrogen & syngas
 - CO2 capture and liquefaction
- On-site production
 - Air Liquide builds and operates gas production units at more than 300 customer sites



Robust Distribution Network

- Bulk & cylinder distribution – 60+ depots, 500+ trucks and rail cars, 700+ professional drivers
- Extensive pipeline systems in Texas and Louisiana – 2000+ miles of pipeline supply mainly oxygen, nitrogen and hydrogen



AIR LIQUIDE

Creative Oxygen

INNOVATION

Oxygen, nitrogen, hydrogen and specialty gases have been at the core of Air Liquide's business since its founding in 1902. Air Liquide innovates constantly to develop new uses for its core products and to create new markets and opportunities in anticipation of future technological challenges.



Delaware Research & Technology Center in Newark, NJ

AIR LIQUIDE IN THE US

- Established the Delaware Research & Technology Center in Newark in 2007
- More than 100 researchers representing over 20 nationalities are based at the DRTC.
- Major fields of research: bioresources, electronics, membranes, hydrogen energy, oxycombustion, process control and logistics, modeling.



Delaware Research & Technology Center in Newark, NJ

GLOBAL R&D ORGANIZATION

- 9 main R&D centers (Europe, USA and Japan)
- More than 1,000 researchers of 35 nationalities
- Innovation budget: €278 m in 2014
- Over 40% of the Group's revenue is generated by solutions that protect life and the environment
- Approximately 6,200 employees contribute to the Group's innovation
- 300 patents filed each year

A RESPONSIBLE COMPANY



LOST-TIME ACCIDENT
FREQUENCY RATE
**REDUCED NEARLY
THREEFOLD**
OVER 20 YEARS*

SAFETY FIRST

Safety is a core value at Air Liquide. With an accident frequency^(a) rate that has been reduced by nearly three percent over 20 years, Air Liquide continues to emphasize employee training on risks fundamental to its business.

*Number of lost-time accidents with at least one lost-day per million hours worked by Group employees (1.56 in 2014)



SUSTAINABLE DEVELOPMENT

Air Liquide is creating new high value-added applications and services, fostering innovation to reduce pollution, lower energy consumption, maximize the value of our natural resources, develop alternative energy sources and improve quality of life — to the benefit of customers, patients and society.

Air Liquide's commitment to sustainable development relies on three fields of action

- Reducing the environmental impact of Air Liquide operations and industry as a whole
- Maintaining a strong commitment to employees and to the communities in which we operate
- Innovating to solve the world's challenges

COMMUNITY PARTNERSHIPS

AIR LIQUIDE IN THE U.S.

At Air Liquide, we view community investment not as a choice, but as a responsibility we take seriously. Air Liquide and its employees are committed to supporting the communities in which we live and work both financially and through volunteering time and expertise. In the U.S., Air Liquide's community engagement program supports philanthropic initiatives dedicated to improving STEM education, youth education and wellbeing, as well as relief efforts for natural disasters. Air Liquide is also committed to supporting causes that are important to its employees through its matching gifts program, doubling financial gifts made to philanthropic organizations by its U.S. employees.

Air Liquide doesn't stop at financial contributions. Volunteering is part of life for many Air Liquide employees, as they constantly seek out opportunities to get out into the community to make a positive impact.

AIR LIQUIDE FOUNDATION

Founded in 2008, the Air Liquide Foundation supports philanthropic initiatives in the 80 countries in which Air Liquide operates. The Foundation is dedicated to projects that preserve life and the environment, as well micro-initiatives that support local development and economic progress. For more information visit www.fondationairliquide.com.





FOR MEDIA INQUIRIES, PLEASE CONTACT:

Heather Browne

Director of Corporate Communications

heather.browne@airliquide.com

713-624-8021

News Media Hotline – 713-624-8594

