



AIRFIRST

Invisible technology
leading the world
we see all around us

Airfirst's unique technology experience and trust

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EVERYDAY EVERYWHERE LIFESTYLE CREATOR

AirFirst has been leading the production and supply of industrial gas, providing products and services to a wide range of industries from the nationally strategic industries of semiconductors, petrochemicals, and steel to traditional consumer goods industries like food and medical industries, and the next-generation growth industries of Secondary batteries and aerospace.

Top Leader, respected in the domestic industrial gas industry

AirFirst will pursue its vision

"Top Leader in the domestic industrial-purpose gas industry that prioritizes the environment, safety, and respect for people as the highest value and earns the respect of society"





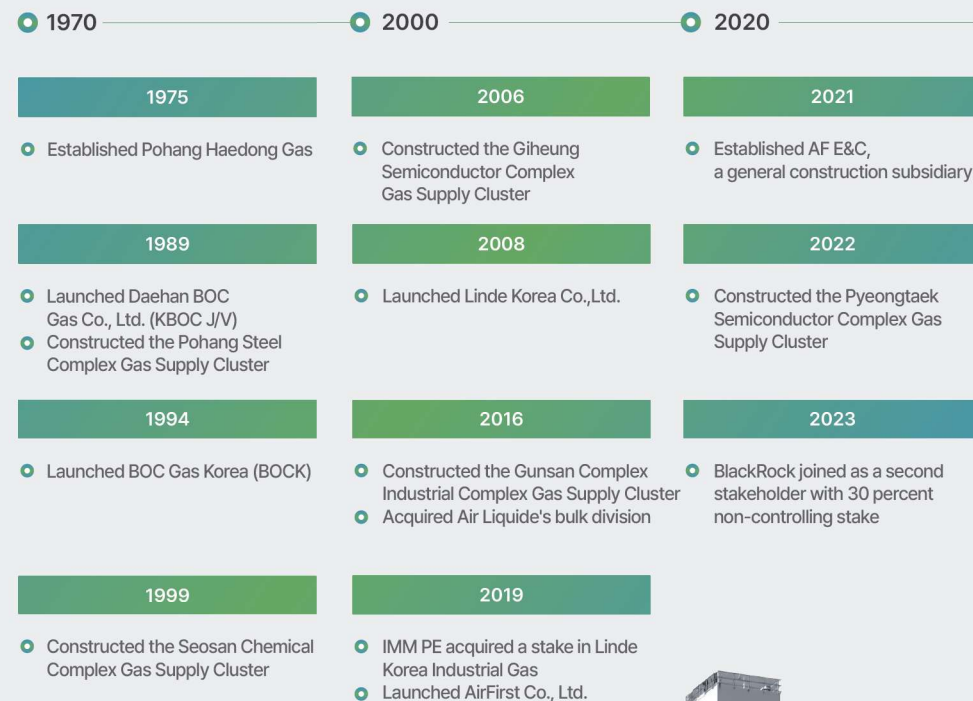
CEO Han-yong Yang

Since its establishment in 1975, AirFirst has been consistently at the forefront of the manufacture and supply of industrial gas for the past 50 years, while maintaining a consistent, friendly relationship with customers and local communities based on stable operations and trust.

We will promote our growth with numerous stakeholders including customers, partners, and local communities based on the passion and dedication of all executives and employees and accumulated experience and technology, and will strive to meet challenges for the future.

ABOUT AIRFIRST Our History

04



Since its establishment in 1975, AirFirst has been leading the production and supply of industrial gas for over 50 years.

Major Locations and ASU Clusters

AirFirst's primary factories are located within and in the vicinity of customers' businesses, including major industrial complexes, and we will keep in close proximity to provide even better services to ensure prompt response to customers' requests.



● Pyeongtaek Plant

8ASU
BSGS,
Semiconductor
Industrial Complex



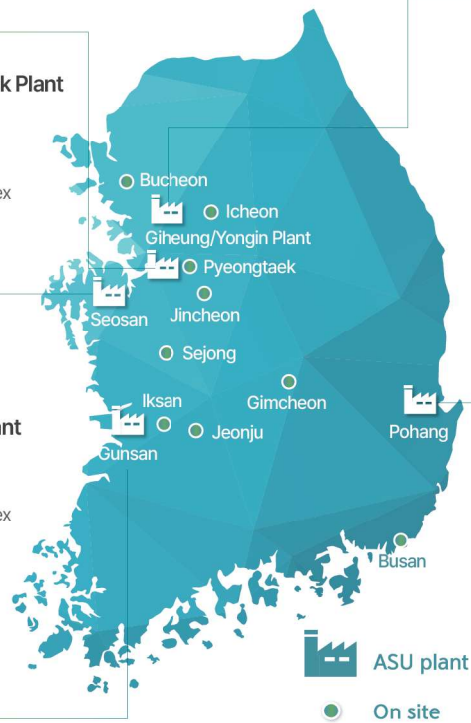
● Seosan Plant

6 ASU
Petrochemical
Industrial Complex



● Gunsan Plant

1 ASU
Polysilicon, Steel, Chemical,
etc. Complex Industrial Complex



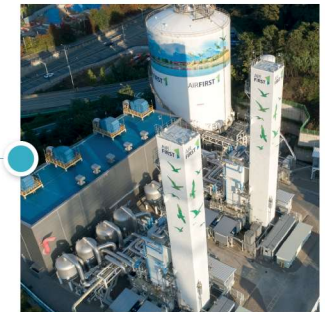
● Pohang Plant

2 ASU, 1 SMR
Steel Industrial Complex



● Giheung Plant

2 ASU
Semiconductor Industrial Complex



● Yongin Plant

2 N2 Generator
Semiconductor Industrial Complex

● On-site Plant Bucheon, Icheon, Pyeongtaek, Jincheon, Sejong, Iksan, Jeonju, Gimcheon, Busan



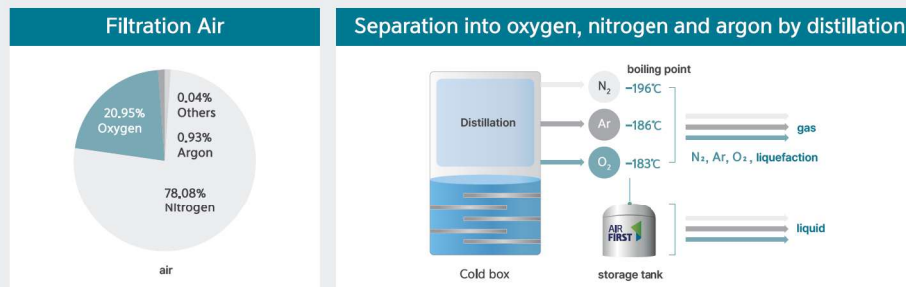
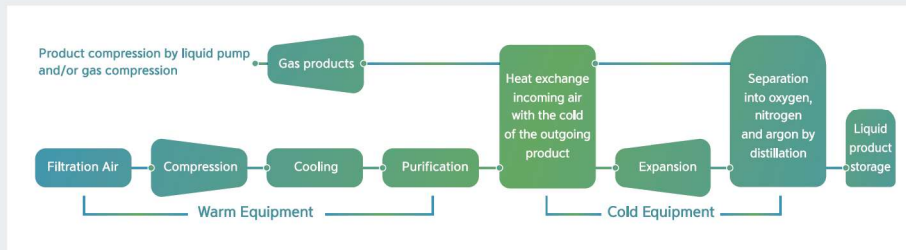
GAS SUPPLY SYSTEM

Gas production | ASU(Air Separation Unit)

AirFirst produces and supplies industrial gases such as nitrogen, oxygen, argon, and hydrogen through the ASU (Air Separation Unit) and SMR (Steam Methane Reforming) production processes.

ASU(Air Separation Unit) | Nitrogen, Oxygen, Argon Production

It separates and produces high-purity products such as nitrogen, oxygen, and argon from the air in the atmosphere through processes such as compression, purification, liquefaction, cooling, and distillation using an ultra-low-temperature distillation device.

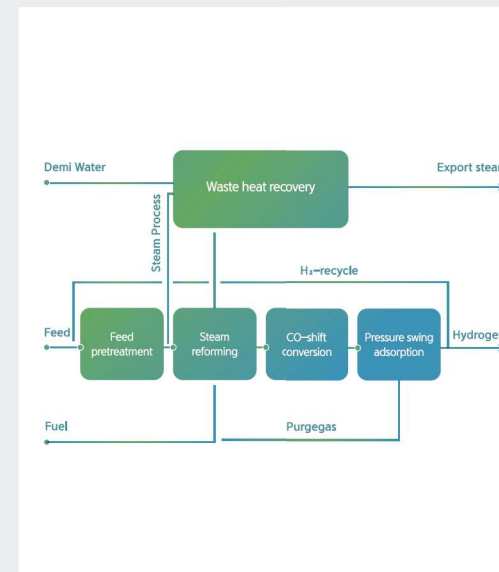


GAS SUPPLY SYSTEM

Gas production | SMR(Steam Methane Reforming)

SMR(Steam Methane Reforming) | Hydrogen Production

Hydrogen is produced through the reaction of steam (H₂O) and methane (CH₄) using Naphtha as raw material.



- Feed Pretreatment**
Removal of sulfur (S) component contained in raw material
- Steam Reforming**
Production of hydrogen by reacting raw material with steam

$$\text{CH}_4 + 2\text{H}_2\text{O} \rightarrow \text{CO}_2 + 4\text{H}_2$$

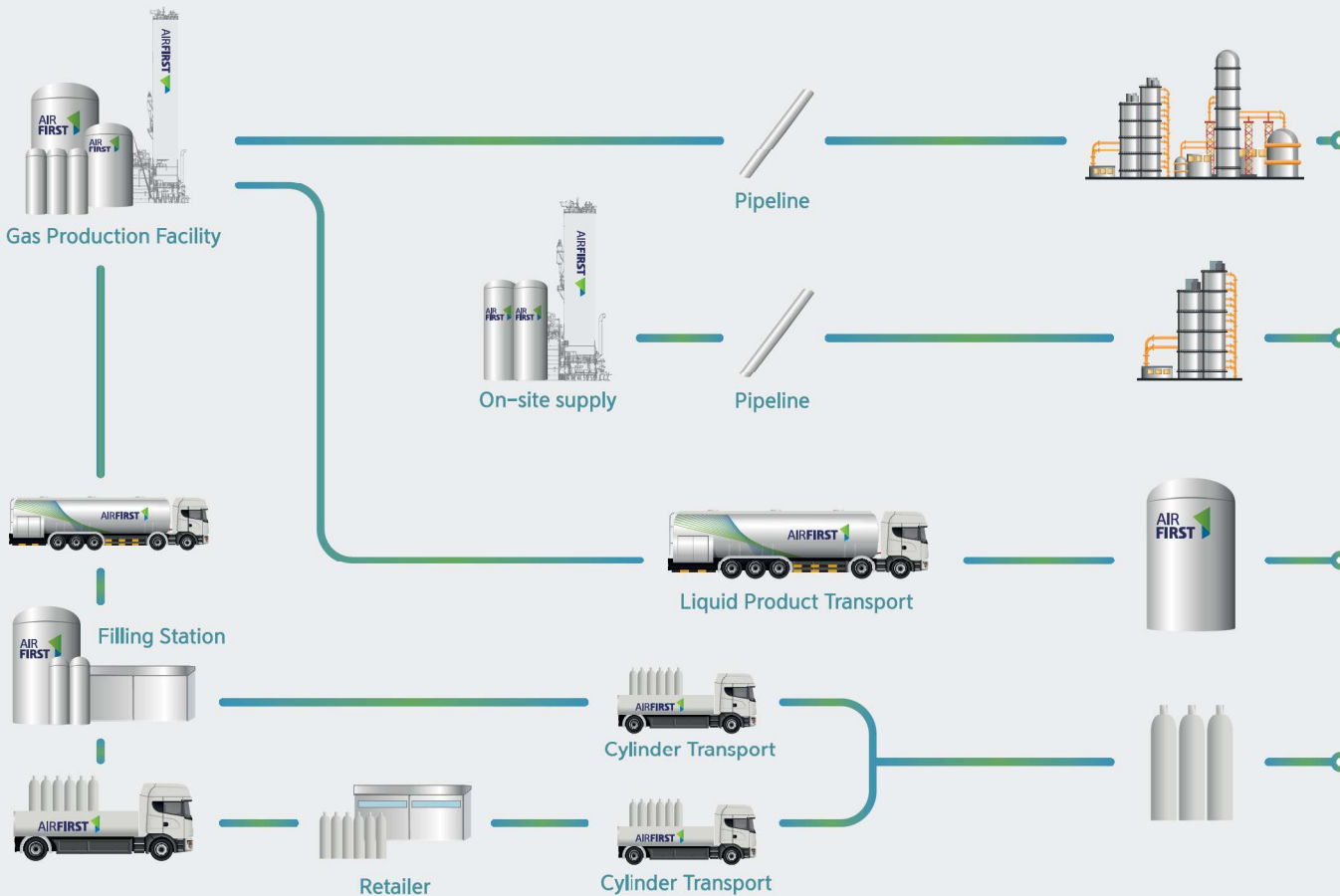
$$\text{CH}_4 + \text{H}_2\text{O} \rightarrow \text{CO} + 3\text{H}_2$$
- CO-Shift conversion**
Production of hydrogen by reacting CO, a byproduct of reforming reaction, with steam

$$\text{CO} + \text{H}_2\text{O} \rightarrow \text{CO}_2 + \text{H}_2$$
- Pressure Swing Adsorption (PSA)**
Removal of all impurities except hydrogen (CO, CO₂, O₂, etc.)

GAS SUPPLY SYSTEM

Gas Supply | Optimal Gas Supply Solution Operation

AirFirst produces and supplies industrial gas, which is the foundation of all industries, and provides integrated solutions based on corporate principles of safety, trust, and partnership.



Provide the Optimal gas supply solution

Provide integrated solutions that meet various needs of customers such as pipeline, on-site, bulk, and cylinders

● Pipeline

Supply gases of oxygen, nitrogen, argon, etc. by installing a piping network within or adjacent to each customer company

● On-site

Supply gases by designing a portfolio of facilities that meet customer demand within the customer company

● Bulk

Supply liquid gases to the site where the customer needs them by utilizing tank lorries or trailers

● Cylinder

Supply liquid and gases required by the customer in cylinder containers according to the customer's demand

GAS SUPPLY SYSTEM

AirFirst's Core Competitiveness

Provide optimal solutions to customers based on various kinds of accumulated facility operation know-how

Seosan Plant 5 successfully completed commissioning, the final stage for plant commercial operation using only our internal technology and manpower expertise

- 1989 Pohang Steel Complex Gas Supply Cluster established and in operation through the acquisition of **B Company (Germany)** facility
- 1999 Seosan Chemical Complex Gas Supply Cluster established and in operation through the acquisition of **K Company (Japan)** and **A Company (USA)** facility
- 2006 Semiconductor Complex Gas Supply Cluster established and in operation through the construction of Giheung/Yongin plant using **L Company (Germany)** facility
- 2016 Operation after acquisition of **A Company (France)** Bulk Division (15 plants)
- 2021 Chemical Complex Gas Supply Cluster established and in operation through the construction of Seosan plant 5 using **A Company (France)** facility
- 2022 Semiconductor Complex Gas Supply Cluster established and in operation through the construction of Pyeongtaek plant using **L Company (Germany)** facility

Stable supply based on Smart Management System

Integrated Remote Operation Monitoring System (ROC)

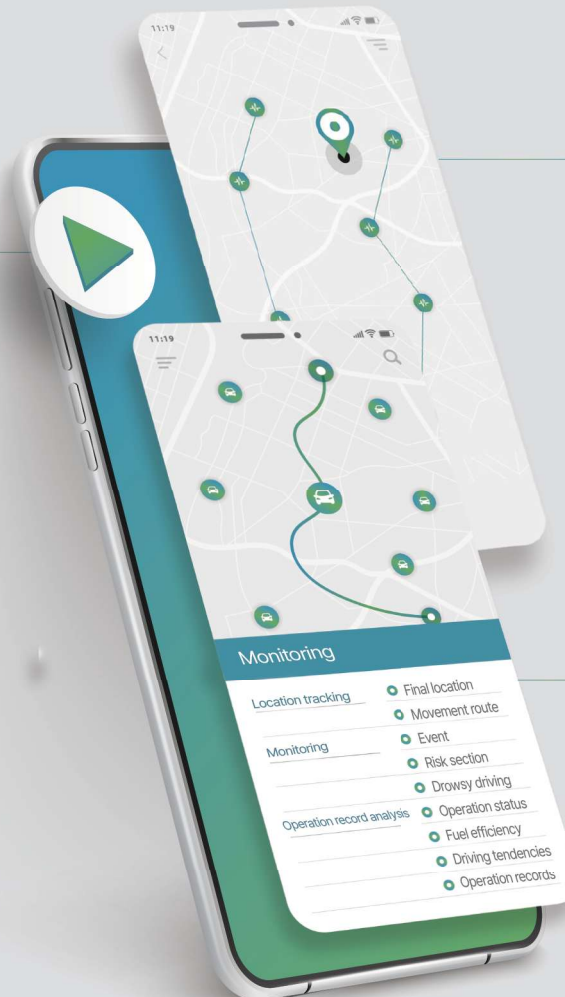
Through the Integrated Remote Operation Monitoring system (ROC) at the worksite, we not only ensure local operations but also maintain a real-time multi-monitoring system. This allows for quick responses to any abnormal signs in the facilities, contributing to supply stability and prevention of process accidents.

GIS (Geographic Information System) Based Mobile Management System

In October 2016, we developed the first mobile management system for the gas supply chain in cooperation with Korea Gas Safety Corporation among domestic industrial gas companies, and established efficient pipeline safety management capabilities and stable supply foundation. Through underground buried pipeline mobile management system operation utilizing Google Maps, we can monitor and inspect pipeline locations and conditions.

GPS-Based Real-Time Monitoring System for High-Pressure Gas Transport Vehicles

In December 2012, we independently developed and operated a GPS-based real-time monitoring system for high-pressure gas transport vehicles; through real-time location and operation information monitoring of all of our high-pressure gas transport vehicles, we are contributing to the management of risk factors that may occur during the transport process and prevention of traffic accidents.



GAS SUPPLY SYSTEM

AirFirst's Core Competitiveness

Owns AF E&C, an engineering and construction subsidiary that specializes in Engineering-focused comprehensive construction

Provides integrated solutions for industrial gases including design, construction, manufacturing, and production



- **Establishment Date** 2021.01.04.
- **Ownership** 100% owned by AirFirst
- **Industry** Construction
- **Licenses** Civil engineering and construction business, Gas facility construction business (class 1), Electrical construction business
- **Work Scope** Engineering for plant design, construction for plant installation, and provision of other ASU plant-related solutions

Air-Gas Specialized Domestic Company with Know-How & Excellence Operation

Agility

- Quick response and decision making unique to domestic companies, ensuring customer needs.

Excellence Operation

- Skilled employees with 30 years' accumulated know-how in operating various facilities
- Diverse experiences in Cold Box Operation & Maintenance

Execution

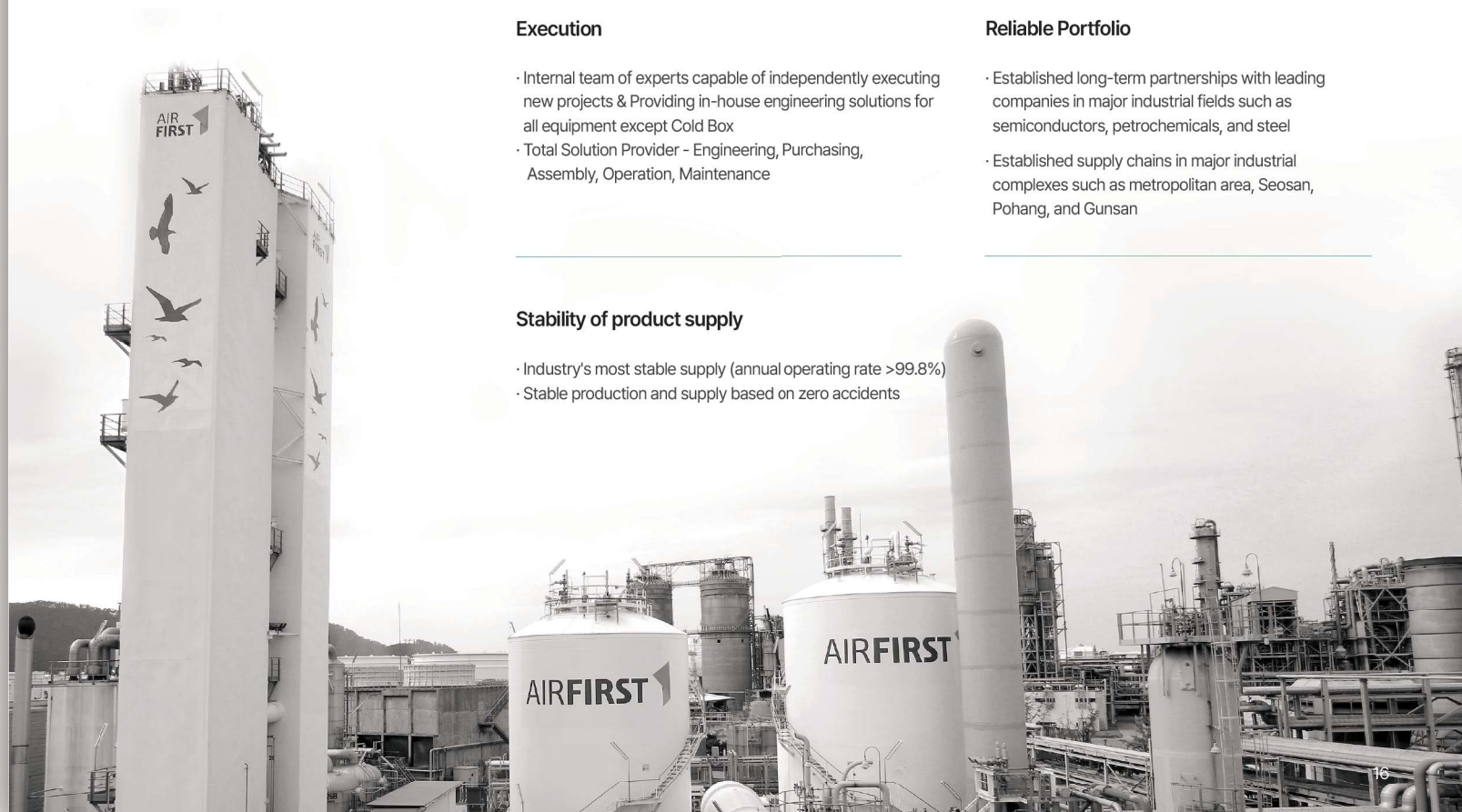
- Internal team of experts capable of independently executing new projects & Providing in-house engineering solutions for all equipment except Cold Box
- Total Solution Provider - Engineering, Purchasing, Assembly, Operation, Maintenance

Reliable Portfolio

- Established long-term partnerships with leading companies in major industrial fields such as semiconductors, petrochemicals, and steel
- Established supply chains in major industrial complexes such as metropolitan area, Seosan, Pohang, and Gunsan

Stability of product supply

- Industry's most stable supply (annual operating rate >99.8%)
- Stable production and supply based on zero accidents



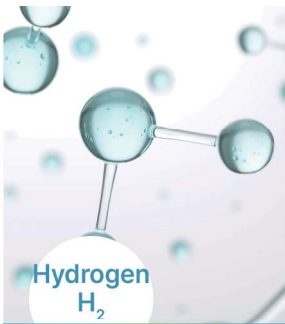
GAS APPLICATION

Industrial Gases



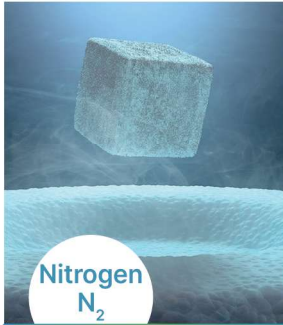
Oxygen
 O_2

Oxygen is a non-flammable, supporting gas that has oxidizing properties which react with combustible substances. It is used in various industrial fields such as RFCC and SRU in oil refining process, EO and VCM oxidation in petrochemical process, Combustion in steel and glass industry, welding and cutting, paper making, water treatment, medical, secondary battery material manufacturing process and etc.



Hydrogen
 H_2

Hydrogen is used in petrochemical processes, manufacturing processes such as semiconductors, polysilicon, optical cables, hydrogen fuel cells, glass, iron, non-ferrous metals and etc.



Nitrogen
 N_2

Nitrogen is an inert and non-flammable gas and is used in various industrial fields such as chemical process (for inerting, blanketing and purge), metal (for atmosphere), semiconductor (for inert, blanketing and cooling), food and beverage, glass, tire curing and etc.



Carbon dioxide
 CO_2

Carbon dioxide is a non-flammable, inert gas that dissolves in water and is mainly used in food and beverage, MAG welding, dry ice manufacturing, pulp, paper, metal processing and etc.



Argon
Ar

Argon is inert gas in the high temperature and high pressure and is mainly used for high-quality welding such as atmospheric gas (AOD), TIG MIG for smelting, refining, and also widely used in silicon ingot manufacturing, semiconductor chips, light bulbs, insulated glass industries and etc.



Helium
He

Helium is the second light gas after hydrogen and is used in medical MRI equipment, special welding, leak testing, optical fiber, electronic semiconductor industries and etc. with high conductivity and fast diffusion.

GAS APPLICATION

Gas Applications | Major Clients (Industry)

We are forging ahead together with more than 230 companies in various industries ranging from national strategic industries such as semiconductors, chemicals, and steel to food&beverage, new materials, medical, paper, and glass.

Electronics Business

Providing ultra-high-purity gases for semiconductor/solar/LED/Electric Package business



Petrochemical&Energy industries

Providing optimized gas solution for production processes in the plastic, clothing, synthetic resin, and synthetic rubber industries



Steel Industry

Providing optimized gas solution for steel melting and heating processes in automobiles, construction equipment, building materials, aviation, etc.



Other Industries

Providing optimized gas solution for secondary batteries, aerospace, food, healthcare, and pharmaceutical industries



GAS APPLICATION

Gas Applications | Everyday Life

The invisible force that protects your precious everyday life,
the familiar environment that is always around you,
and the comfort you feel—AirFirst's values are breathing with them all.

07:00 ~

Turn on the alarm, the light,
and get up to get ready for work

09:00 ~

Start work using your computer,
diary, paper, etc.

12:00 ~

After lunch, ice cream and
carbonated drinks for dessert

14:00 ~

Using a car to meet
with an external company

22:00 ~

Cover yourself with a
blanket and go to sleep

20:00 ~

Return home, sit on the sofa,
watch TV, and relax

18:00 ~

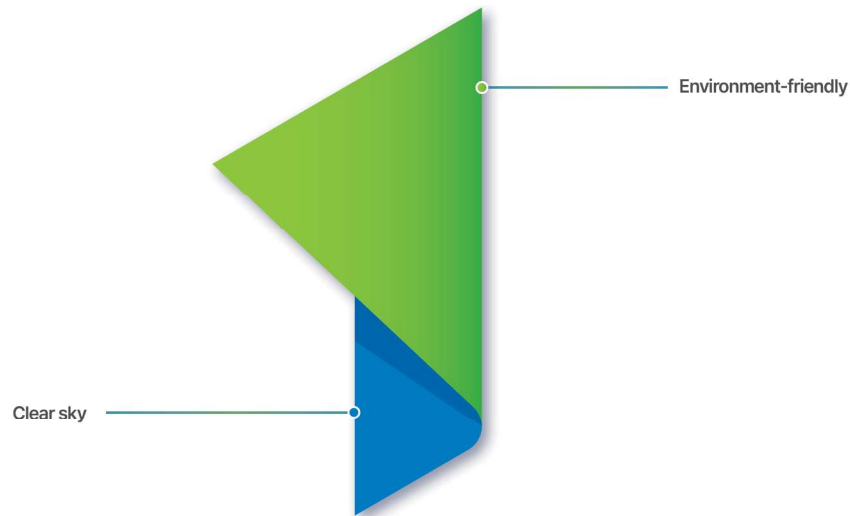
After work, health and fitness,
check your exercise status with a smartwatch

VISION

CI

VISION

VISION / MISSION / GOAL / CORE VALUES



AIRFIRST

We have envisioned our mission to become the most prominent leader in the industry in the future by providing superior quality and optimal solutions with the expertise and technology of the best industrial gas experts and engineers in the industry.

In addition, the appearance of 'rise' in three dimensions with the air swirling and soaring toward the sky symbolizes our pursuit of a better future and greater growth with customers. The color green embodies environment-friendly and blue marks clean air.

AIRFIRST

As an industrial gas solutions company, AirFirst not only contributes to economic development but also creates social value to build a happy society and grow together with all.



Vision

Top leader in the domestic industrial purpose gas industry that prioritizes the environment, safety and respect for people as the highest value and earns the respect of society



Mission

Being a reliable partner that values the future and growth of customers through the concerted efforts of employees and partners



Goal

To achieve sales of KRW 2 trillion by 2035 with an accident-free track record in the environmental and safety fields



Core Values

We are practicing ESG management by reflecting the core values of Safety, People Respect, and Ethics in our management philosophy.

ESG Management Policy

Safety, Health, & Environment Policy SHE

AirFirst always pursues sustainable business endeavors together with the society, environment, & our neighbors, in whose interests we are intricately vested.

Our Corporate Principles

- Safety, health, & environmental management constitute a fundamental basis of our business.
- Safety, health, & environmental protection of staff, customers, & communities are top priorities.
- We uphold and embody the value of safety, health, & environmental protection in all business endeavors with a focus on ethically responsible management

Our Mission

- We achieve accident-free and disaster-free track records.
- We provide a safe & healthy workplace environment for everyone who works with us.
- We provide eco-friendly products & services that raise the bar of customer expectations.
- We undertake sustainable business endeavors through the efficient use of all resources.

Our Pledges

- We strictly comply with related laws, regulations, & industry standards.
- We actively manage all risk factors related to business endeavors.
- We strive for relentless improvement based on specific goals & performance for safety, health, & environmental protection.
- We design, manufacture, and operate safe & eco-friendly facilities.
- We actively promote and share this policy & our safety, health, & environmental performance results with local communities.

Quality Policy

QUALITY

As a reliable partner, AirFirst is committed to the pursuit of relentless improvement in product & service quality by always earning the trust of our customers & communities.

Our Corporate Principles

- Quality management constitutes a fundamental basis of our business.
- The best product and service quality is a top priority.
- We uphold and embody the value of quality management in all business endeavors with a focus on ethically responsible management.

Our Mission

- We achieve zero-defect products and top service quality.
- We pursue efficient and sustainable product & service quality through process improvement.
- We provide technologies, products, & services that raise the bar of customer expectations.
- We undertake sustainable business endeavors that align with our customers' growth based on quality management.

Our Pledges

- We strictly comply with related laws, regulations, & industry standards.
- We actively manage all risk factors related to business endeavors.
- We strive for relentless improvement based on specific quality goals & achievements.
- We provide effective and competitive solutions based on our customers' needs.
- We actively promote and share our policies & quality management achievements with the local community.

Labor/Human Rights Policy

PEOPLE RESPECT

AirFirst protects its executives' & employees' basic human rights & interests, and advocates the principle of 'Respect for People.'

Our Corporate Principles

- According to our 'Respect for People' principle, we advocate the underlying premise that executives & employees have dignity & esteem as individuals and the right to satisfaction with work conditions.
- As for social and economic aspects, we exert our best effort to provide employment stability & proper wages for workers and maintain a stable & inclusive workplace environment.
- We comply with the standards of workplace conditions under labor laws & regulations.

Our Mission

- We comply with related laws & regulations, and advocate human rights to protect human dignity as a basic principle, regardless of age or gender.
- We treat employees equally and prohibit any form of discrimination.
- We create workplace conditions & environment for executives & employees pursuant to related laws and regulations.
- We provide rewarding and equitable opportunities for executives & employees.

Our Pledges

- We ensure that executives & employees comply with the law governing workplace conditions.
- We listen to the grievances/complaints of executives & employees, and keep the information about them strictly confidential with their anonymity.
- We value mutual respect between all executives & employees to prevent mental or physical abuse/mistreatment, harassment, and threats from ensuing.
- We ensure that workplace harassment & discrimination based on race, religion, & ethnicity are reprimanded and deterred.
- We create an environment where workers can communicate openly with executives, employees, & middle management, and share their thoughts.

Ethical Policy

ETHICS

AirFirst is a partner earning the trust of customers and communities with its pledge to comply with the law, ethics charter, and 'respect for people' principle.

Our Corporate Principles

- We comply with the law and ethics charter.
- We maintain an inclusive and ethical corporate culture.
- We uphold and respect the basic human rights of customers, shareholders, executives & employees.

Our Mission

- We advocate fair and open competition according to the law & business ethics.
- We maintain accounting transparency through accurate accounting practices, processes & transparent disclosure.
- We strictly distinguish between public & private affairs in all business endeavors.
- We protect and respect the intellectual property rights of the company & others.
- We strive to improve customer satisfaction & the quality of life for executives & employees and pursue shareholder value-driven management.

Our Pledges

- We strictly comply with international standards & relevant regulations.
- We accurately record and manage all transactions in compliance with accounting laws & company regulations, and undergo regular audits.
- We shall not engage in fraudulent acts for the sake of personal self-interests, such as embezzlement, misappropriation, or theft of company assets using our positions of trust.
- We shall not disclose Intellectual property and confidential information within the company to the general public without proper prior permission & procedures.
- We pursue transparent management practices in pursuing profit maximization for enhanced shareholder return on investment.
- We provide equal & fair opportunities to all employees and determine their incentives & promotions fairly based on their competencies and merit-based performance.

VISION

Certification and Awards

AirFirst places the highest value on the safety and environmental well-being of its employees and provides high-quality products and services to its clients. We also strive to ensure work-life balance by fostering a positive corporate culture and to promote local community growth and contribute to social advancement.

Quality	Safety & Health	Environment
		
ISO 9001 Quality Management System	Medical GMP System	Excellent Family- Friendly Company Excellent Family-Friendly Company Certificate
		
ISO 45001 Safety and Health Management system	Transport Safety Korea Transportation Safety Business Agreement	Process Safety PSM System
		
ISO 14001 Environmental Management System		

Award History

- 2024. 09 Won the Prime Minister's Commendation for Contributions to Job Creation (Middle-aged Employment Promotion sector), hosted by the Ministry of Employment and Labor
- 2024. 07 Won the Minister of Employment and Labor's Commendation for Contributions to Prevention of Industrial Accidents at the 2024 Safety & Healthcare Day
- 2023. 10 Won a commendation from the Minister of Trade, Industry, & Energy on the 16th Semiconductor Day for its contributions to the semiconductor industry
- 2021. 12 Won a commendation from the Minister of Trade, Industry, & Energy in the comprehensive ESG domain for mid-sized companies at the 2021 Korea Sustainability
- 2020. 11 Won the Presidential Commendation at 27th Korea Gas Safety Awards hosted by the Ministry of Trade, Industry & Energy
- 2016. 07 Acclaimed as the best PSM business site by the Korea Occupational Safety & Health Agency
- 2014. 07 Acclaimed as an excellent business site for risk assessment by the Korea Occupational Safety & Health Agency
- 2012. 08 Won the Presidential Commendation at the 18th National Statistical Day

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