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AIR WATER BUSINESS GUIDE 2020

Contributing to Manufacturing and Supporting Lifestyles

Meeting Society's Needs with Nature's Blessings

The Air Water Group's corporate slogan is "meeting society's needs with nature's blessings." It speaks of our strengths and the social value we provide, such as how our technologies, expertise, and business model combine seamlessly to transform air and water into a stable, sustainable supply of invaluable products, services, and solutions for industries and lifestyles.

Indeed, it encapsulates our determination to serve as a valued partner, providing essential resources from the earth in ways that meet the requirements of all people, communities, and industries.



INDEX

Timeline of "Value Creation" to Enrich Society

needs of society.

Industrial Gas Business

nationwide production network extending from Hokkaido to Kvushu.

Chemical Business

pharmaceutical and agricultural chemical intermediates

Medical Business

injection needles and dental materials

Energy Business

energy service provider.

Agriculture and Food Products Business

Logistics Business

manufacturing of vehicles

Seawater Business

well as high-value-added magnesia products.

Other Businesses

engineering and equipment ventures predominantly in North America.

Principal Shareholders



Timeline of "Value Creation" to Enrich Society

Before Air Water

In 1993, Daido Sanso Co., Ltd. and Hoxan Corporation merged to form Daido Hoxan Inc., setting a precedent for reorganization within the industry. Later, in 2000, Air Water Inc. was established with the consolidation of Daido Hoxan and Kyodo Oxygen Co., Ltd.

Hokkaido Sanso Co., Ltd. is established. 1929 (Company renamed Hoxan Corporation in 1966) Aiming to save lives and help develop local industries



In the years before the war, a certain individual passed away due to poor transportation conditions and the inability to receive sufficient oxygen inhalation. The deceased's elder brother, the then head of the Chamber of Commerce and Industry of Sapporo City, poured his efforts into founding Hokkaido Sanso Co., Ltd.

- 1929 Operation of 30 m³/h oxygen production machinery begins. **1955** Begins sales of LPG.
- 1963 Production and sales of Bath-All prefabricated bath units begins
- 1979 Frozen foods business utilizing liquid nitrogen launched.

933 Daido Sanso Co., Ltd. is established. Founded in the spirit of a united front and collaboration

Sansc



At the time, industrial gas was distributed to the military-support industry, and difficult to obtain for smaller businesses. Daido Sanso was established when oxygen-using businesses decided to take matters into their own hands, and band together and produce it themselves

1933 Operation of 60 m³/h oxygen production machinery begins. 1970 On-site supply for chemical manufacturers begins. 1983 V1 high-purity nitrogen gas generator is developed.

1988 Industrial magnesia business launched.

1962 Kyodo Oxygen Co., Ltd. is established.

Supporting Japan's rapid economic growth with oxygen



1962 Supply of gas to

the midst of the Japanese economic miracle. Sumitomo Metal Industries established Kyodo Oxygen inside its Wakayama Ironworks to meet rapidly increasing steel demand, and the supply of oxygen for converter steelmaking began.

9

Net sales

220.8 billion yen

FY2000

Kyodo Oxygen was established in

Kokura Ironworks **1978** Production and sales of ELNACKS® welding argon begins.

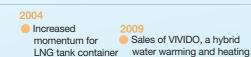
Active Merger-Based Expansion Strategy

Starting in the 2000s, we have expanded our business in scale and scope through a series of mergers and acquisitions, particularly in areas such as industrial gas and medical domains, while ventures in new areas like agriculture and food, and seawater, have built the foundations for our diverse business interests.

Ω

Carbon dioxide and hydrogen gas businesses launched. 2004 No. 1 VSU unit (high-efficiency, compact liquefied oxygen/nitrogen production plant) begins operations. KOBELCO Air Water Cryoplant, Ltd. established 2002 Coal chemical business begins. 2001 2007 Medical-related Injection needles







business.

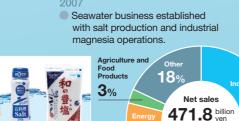


husiness

2002



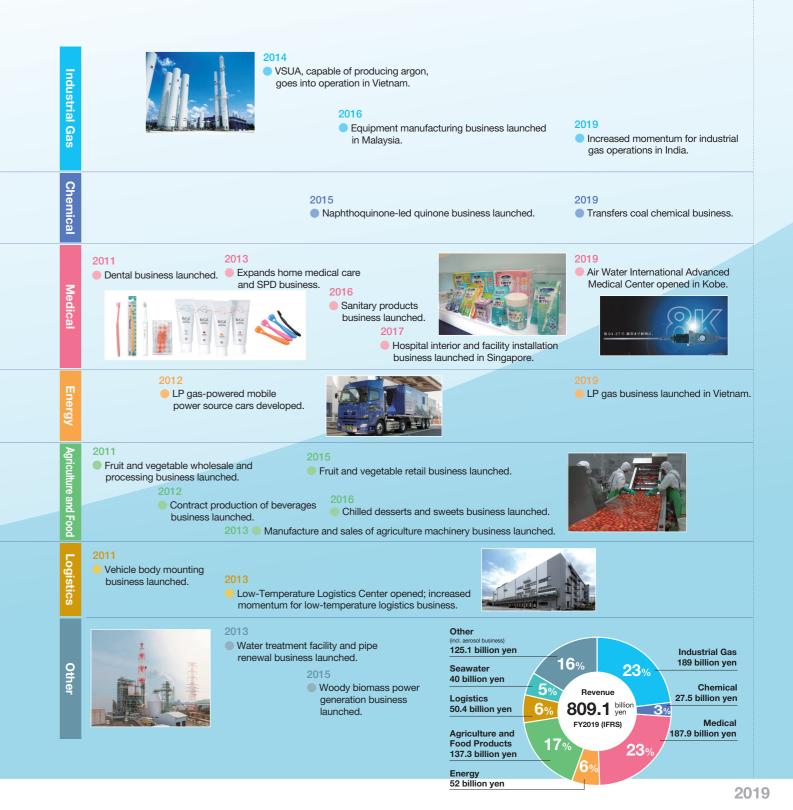
system, begins.



Air Water Inc. was established in 2000 through the consolidation of three companies-Hoxan Corporation, Daido Sanso Co., Ltd., and Kyodo Oxygen Co., Ltd.-each with different histories and cultures, to begin a new mission and purpose; to provide services that innovate industry and society through "air and water." Since then, the new company has conducted aggressive M&A activities to reinforce its business foundation, expand its business areas, and improve the comprehensive strength of the group. Air Water will continue taking on businesses that are ahead of their time, in keeping with the spirit of its founder, which has been passed down in an unbroken line.

Reinforcing the All-Weather Management System

Since 2010, our M&A-based expansion into new lifestyle-related business domains like agriculture and food, and "lifestyle medical," has been designed to ensure Air Water continues to grow in a stable manner. The result is our All-Weather Management System, a finely balanced portfolio covering industrial and lifestyle-related businesses.



1930

2000

55

3 AIR WATER BUSINESS GUIDE 2020

2010

FY2010

17%

Industrial Gas Business

The Industrial Gas Business delivers a stable supply of industrial gases, such as oxygen, nitrogen, argon, and carbon dioxide, by the optimum supply method, ranging from supply using cylinders or tank trucks to on-site supply. The Industrial Gas Business also offers gas applications, as well as engineering and industrial equipment, by making effective use of technologies developed in-house.



Cylinder Supply

Chemical Business

From electronic materials and pharmaceutical and agricultural chemical intermediates, to quinone-based products (produced by Kawasaki Kasei Chemicals) and phthalic anhydride, we produce and offer a stable supply of various high-value-added chemical products. Further, in 2019, we acquired Daito Chemical, a leading manufacturer of sodium acetate; FILWEL, a manufacturer of precision polishing pads; and Shin-etsu Lead, a company predominantly engaged in the installation of trial substrates.

Air Water	Kawasaki I
Functional chemicals	Organic acid-based products
Electronics materials	Phthalic anhydride
Pharmaceutical intermediates	Fumaric acid
Agricultural	Succinic acid
chemical intermediates	MAXIMOL

Electronic Materials



Circuit Products Printec designs high-density circuits and manufactures and sells high-density mounting boards such as servo motor control boards.

Functional Materials



other synthesizing technologies to manufacture and

sell a variety of products to satisfy customers'

needs, such as the semiconductor sealant SK Resin.

Thermally Expandable Graphite (TEG) We manufacture and sell TEG, a material with a wide range of applications. When the material undergoes compression molding, it becomes a material used in seal components, and when mixed with flammable substances such as rubber and urethane resin, it functions as a flame retardant.

Core Businesses



We manufacture and sell phthalic anhydride used in vinyl chloride plasticizers, organic acid products such as succinic acid and fumaric acid used in food additives, and organic acid-based derivatives such as Maximol, which is used in the urethane-based materials for heat insulating agents.

Industrial Gas



On-site Supply

Air Water installs gas generation equipment on the premises of factories that consume a large volume of gassuch as those producing steel, chemicals, and electronics-and provides gas supply through pipelines.

VSUs

Balancing Clients' Requirements with Stability of Supply

High-efficiency, compact liquefied oxygen/nitrogen production plants-known as VSUs-are a handy way to produce just the right amount of industrial gas close to the Our 19th domestic point of demand. Through this business model, we are VSU in Sagae. building safe and stable supply systems in regional areas Yamagata together with our partners. Our 19 VSUs nationwide help make our supply network more resilient in disaster and emergency situations, and the shorter distribution distances mean reductions in energy consumption, decreased carbon dioxide emissions, and robust business continuity planning-all of which contribute to the SDGs.

Supply by Tank Trucks

Air Water delivers various types of liquefied gas produced at manufacturing plants to customers' plants via tank trucks. Thanks to its supply network covering the whole of Japan, Air Water has established a secure and safe supply structure.



Expanding into the Indian Market Where Demand for Industrial Gas Is Expected to Grow

In 2013, the Air Water Group acquired a local industrial gas company in India. Further, when Praxair (USA) and Linde (Germany) merged in 2019, we acquired some of their industrial gas operations in India. We are currently engaged in onsite gas supply business for ironworks, and cylinder and tank truck supply.



liquefied gas containers), etc., to various





Industrial Equipment

Air Water supplies industrial equipment related to welding and cutting, such as ELNACKS®, an argon-based gas for welding, and offers welding solution services.



Our VSU network

(as of Sep. 30, 2020)

Gas Applications

Prefecture

Air Water develops and proposes gas equipment and systems that effectively use the diverse properties of industrial gases to contribute to its customers' improvement of production efficiency or sophistication of technology.



Engineering Air Water offers integrated solutions based on the process engineering of cryogenic air separation systems, from design and fabrication to safety management.









Precision Polishing Pads

FILWEL manufactures and sells precision polishing pads which are used in the manufacture of electronic devices and others that require ultra-precise surface finishing.



Pharmaceutical and Agricultural **Chemical Intermediates**

The group's strong arsenal of heterocyclic compounds, which play an important physiological role, are used in the synthesis of various derivatives to meet the diverse development needs of customers.



Quinone-Based Products

Kawasaki Kasei Chemicals is the only company in the world to successfully produce quinone-based products such as naphthoquinone at commercial scale. The unique properties of these products make them ideal for use in diverse fields such as agrochemicals, medicine and electronic materials.



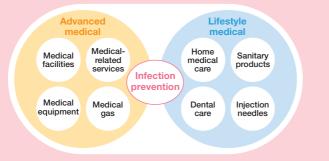
Food Additives (Sodium Acetate)

Sodium acetate is used as an agent to increase the longevity of food additives, and as a raw material in dialysis agents. Daito Chemical is a leading manufacturer of sodium acetate-it was the first company in Japan to successfully mass-produce the chemical, and it also has its own particle control technologies.

Medical Business

We offer a broad spectrum of products and services, from sophisticated medical solutions underpinning the increasingly advanced medical sector to lifestyle medical solutions. The former includes state-of-the-art medical facilities, medical gas supplies, contract hospital services, and equipment maintenance, while the latter includes dental supplies, sanitary products, injection needles, and other items needed by local clinics and home care providers.





Energy Business

Air Water has been supplying LP gas and kerosene as energy for daily life to general households, commercial facilities, hospitals, and other public facilities, and also as energy for industrial uses to plants. Air Water is also engaged in the supply of LNG as well as the manufacture and sale of LNG-related equipment, playing an essential role in community life.

Advanced Medical



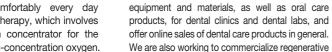
Medical Facilities and Equipment We have the largest market share for the design and installation of operating rooms, ICUs, and medical gas piping systems in Japan. We combine the advanced medical equipment and systems required for ICUs to propose treatment environments with enhanced functionality and comfort.

Lifestyle Medical



Home Medical Care

Air Water helps patients with respiratory problems to live comfortably every day through home oxygen therapy, which involves the use of an oxygen concentrator for the stable inhalation of high-concentration oxygen.



Infection Prevention



Dental Care

Medical-related Services

Air Water helps hospitals to operate more

efficiently by providing medical outsourcing

services to support hospital management

and operations, including in-hospital logis-

tics management and the sterilization or

We manufacture and sell dental and orthodontic

treatments using dental pulp stem cells.

disinfection of medical instruments.



To counter the spread of COVID-19, we are reinforcing our production and supply systems for sanitary products, a lineup that includes face masks, gloves, hand and finger sanitizers, and gauzes. In addition to these sanitary products, we are also helping to prevent the spread of the virus in other ways. We have developed an AI-based, non-contact body temperature measurement solution; a remote medical support system that allows hospital wards to communicate with remote medical offices, and that enables doctors to remotely monitor the condition of patients; a UV irradiation device that rapidly disinfects frequently touched surfaces; partitions; and negative pressure ventilation equipment



Medical Gas

From medical oxygen (for which we have the top share of the Japanese market) to nitric oxide formulations, liquefied helium for use in MRIs, and carbon dioxide for use in endoscopic surgeries, we offer a stable supply of medical gas.



Injection Needles

We manufacture high-quality, Japan-made hypodermic needles for general, dental, aesthetic and veterinary purposes, exporting them to over 80 countries around the world. In June 2020, we completed the construction of a new plant to reinforce our production system.

Air Water International Advanced Medical Center (Kobe)



The Air Water International Advanced Medical Center opened in May 2019 as a research and development hub for new products and services. It is also a place where individuals can see, experience, and learn about the Air Water Group's state-of-the-art technologies and services in the medical field.

For Consumers





With a focus on Hokkaido, Air Water delivers LP gas under the Hello Gas brand as environmentally friendly, clean energy essential for regional communities.

for water and heating. We work hard to maintain our framework for safe, stable, direct delivery of kerosene to households.

Air Water Electricity



In January 2020, we launched a laundromat business. So that it may still be used during times of disaster, we developed laundromats that use LP gas to ensure operation even during power outages. Through this development, we are providing a sense of security and comfort to regional communities.

Electricity Retailing Air Water Hokkaido, a regional business company of Air Water, collaborates with Hokkaido Electric Power to sell electricity generated by Hokkaido Electric Power under the label "Air Water Electricity

Powered by Hokuden."

For Corporations



Fuel Conversion

We offer a distributed energy system that boasts low CO₂ emissions and provides power even in times of emergency. Through this system, we offer the conversion of heavy oil and other sources to LP gas and LNG for industrial use.



エア・ウォーターでんき

Utilizing the ultra-low-temperature technology and unique expertise we have built up over many years, we manufacture LNG tanker trucks-for which we have the highest domestic share-and other equipment.



Gas appliances / home renovations Air Water Electricity Laundromats that can be used during disasters

Kerosene Fuel conversion

ING LNG-related equipment Mobile Power Source Cars



In Japan, kerosene is just as important an energy source as LPG, as it is used daily



In addition to supplying gas, kerosene, and electricity, we also sell energy-related solutions such as VIVIDO-a hybrid air conditioning and water heating systemwhile also providing services relating to home renovations.



LP Gas (Vietnam)

In 2019, we welcomed Pacific Petro to the Air Water Group through an M&A venture. In doing so, we are expanding our LP gas sales business in Vietnam, where the market is expected to grow due to the increasing population and expanding economy.

while we also design and build facilities such as V Satellites to unload LNG delivered to areas of demand.



Emergency Power Generators / Mobile Power Source Cars

Mobile power supply vehicles generate electricity using easily procured LP gas as fuel, thereby playing an important role as emergency power providers during a disaster or power failure.

Agriculture and Food **Products** Business

The Agriculture and Food Products Business started with sales of frozen foods utilizing liquid nitrogen. Through the integration into the Air Water Group of functions ranging from vegetable production to the distribution of processed foods and beverage products across Japan, the Agriculture and Food Products Business is creating a new value chain that maximizes group synergies.



Sweets

Beverag

Logistics Business

The Logistics Business started with the transportation of high-pressure gases, such as industrial and medical gases. Today, the business has expanded into a variety of fields, including food logistics (mainly 3PL), medical logistics for the transportation of blood, general cargo transport, container transport, and even design and mounting of truck bodies.

Agricultural and Processed Foods



Ham and Deli Meats

With the top share of Japan's cured/ uncured hams market, we offer discerning customers throughout Japan top-quality ham and deli foods in three brands: Syunsetsu, Sagami Ham, and Daisen Ham

Agricultural and Processed Foods



Cultivation

At the Chitose Farm in Hokkaido, which has one of Japan's largest greenhouses, and the Azumino Farm in Shinshu, we cultivate tomatoes and other greenhouse vegetables. Mainly in Hokkaido, we are also involved in outdoor vegetable cultivation.





Water Deliverv

Air Water delivers snowmelt water from the Northern Alps to the homes of its customers by employing the non-heating method to maintain the original natural taste of the water



Agricultural and Processed Foods Predominantly for commercial use, we provide a range of precisely processed frozen foods, such as high-guality frozen vegetables including broccoli, sweetcorn, and pumpkin, and New Year's osechi dishes. By proposing new menus, we are satisfying the needs of professional chefs and the food service industry.



Procurement and Processing With over 700 contracted farmers in Japan alone, we have considerable purchasing power, and provide customers nationwide mealtime favorites like frozen pumpkin from Hokkaido as well as grated daikon radish in volumes suitable for industry use.

Independent



Agricultural Machinerv Air Water manufactures and sells agricultural machinery that supports Hokkaido's industry, such as beet harvesters and cultivators



Vegetable and Fruit Beverages Taking advantage of our ability to use

vegetables cultivated in-house, we sell

vegetable juices, for which we have the

largest OEM production share in Japan, as

well as other high-quality beverages, both

on an OEM basis and under our own brands.

Taking advantage of our strengths in product development,

we offer a range of confectionery, mainly chilled desserts,

for both general consumers and businesses. By

decreasing the use of additives, as well as ensuring

thorough hygiene management to extend consume-by

dates, we are contributing to the reduction of food waste.

Distribution and Sales We offer safe and delicious vegetables and fruit to customers via the nationwide network of fruit and vegetable specialty stores managed by Kyushuya, and a wholesaler at the Otsu Market managed by Takaya Shoten.

Logistics



High-pressure Gas Transport

Air Water delivers high-pressure gases such as oxygen, nitrogen, and argon by the optimum transport means, ranging from liquefied gas tank trucks to trailers, in a safe and speedy manner. The transport know-how and constant low-temperature technology, which have been developed for high-pressure gas transport, have provided the basis for various logistics services that Air Water offers today.



Medical and Environment

Taking advantage of its advanced constant low-temperature technology developed through transportation of high-pressure gases, Air Water conducts all types of transportation related to blood collected at blood centers around the country, including transportation of raw blood plasma, blood samples, raw blood, and blood for transfusion.

Vehicle Bodies Mounting Air Water meets customers' vehicle body needs through integrated production systems spanning the design and production of various truck bodies, truck trailers, and tanker trucks to specialty vehicles, and ranging from the processing of materials to the production of finished products.

Transport

The Group's Nationwide Distribution Network (as of March 31, 2020)

Mainly in the Hokkaido, Tohoku, and Kita Kanto regions, Air Water maintains a cold chain for convenience stores and supermarkets. It is also involved in the production of specialty vehicles. The group also leverages its temperature control technology to provide logistics services for the transportation of raw blood plasma.







Utilizing the transportation network centered on Hokkaido that connects the sites around Japan, Air Water transports all types of cargo, from construction materials and general cargo such as livestock feed and fertilizers to food and beverages, in different temperature zones, from room temperature to chilled to frozen. The transport business is also available for container transport using ferries between Hokkaido and Honshu.





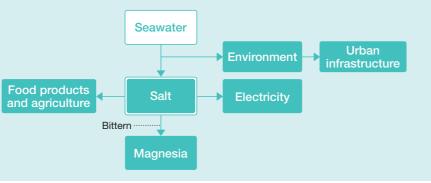
3PI

Mainly in the food logistics field, Air Water aims to provide efficient and high added-value logistics services by comprehensively taking care of the entire logistics operations of shippers, from business improvement to management.



Seawater Business

Our Seawater Business is based on a long tradition of salt production, and we are proud to hold the top share of the Japanese industrial and household salt markets. Our operations in this segment are aimed at upholding the stable supply of this basic necessity, and providing seawater-derived foods and environmental products. Beyond these, we pursue a variety of activities aimed at extracting maximum potential from seawater. For instance, our crystal control technologies enable us to develop high-value-added magnesia products.



Urban Infrastructure

Diagram of a heating system using warm water

Regeneration of Sewer Pipes

Environment



Salt

Salt

Nihonkaisui, the leading producer of salt in Japan, provides a stable supply of high-quality salt products to regions throughout Japan from its Ako and Sanuki plants.

Electricity



Woody Biomass Power Generation In 2015, the Ako Plant of Nihonkaisui introduced an integrated cogeneration power system that uses woody biomass and natural gas. In fiscal 2020, the company's second biomass power plant is scheduled to begin operation.

Water and Soil Treatment Agent We are utilizing seawater resources and technologies to expand into a wide range of business areas, particularly environmental products such as absorbent for water treatment, insolubilizing agent for soil treatment and magnesium hydroxide for the desulfurization of flue gas.

Agriculture



Agricultural Fertilizers

Nihonkaisui utilizes seawater resources to supply potassium chloride, one of the three major fertilizers, for fertilizer manufacturers. The company is aiming to further expand its business through supply of industrial-use fluxing agent.

regenerate aged underground pipes and manholes without digging up the ground. It is also engaged in the development, design, production, installation, and supervision of machinery and equipment in sewage treatment plants. **Food Products**

Aquaintec employs an innovative technology to



Seawater-derived Food Products

We have commercialized bittern generated in salt production processes as a food additive. We also offer products using seaweed grown in the Ariake Sea in Kyushu, furikake seasoning, Italian food ingredients and seawater-derived mineral water.



Magnesia

Magnesia for Oriented Electromagnetic Steel Sheets

Oriented electromagnetic steel sheets are used in the iron core of transformers, and so are indispensable for electric power facilities. Magnesia is essential for producing these electromagnetic steel sheets. The magnesia produced at the Ako and Hibiki-nada plants. of Tateho Chemical Industries is of world-class quality.





Example of end product (home heater)

Magnesia Powder and Ceramics for Heaters

As well as for insulation filler in a wide range of heaters that function at both low and ultra-high temperatures-including white goods and industrial-use heatersmagnesia powder and ceramics are also used in glow plugs for car engines. These products are produced at three of Tateho Chemical Industries' plants: Une in Japan, Tateho Chemical Dalian in China, and TOTC in Missouri, US.

Other Businesses

Aerosol

Air Water conducts a broad range of businesses on an OEM/ODM basis, flexibly responding to diverse needs of customers by manufacturing aerosol products and other liquid-filled products in both large and small lots, from items for the human body and household commodities

to paint, automotive narts and industrial items.





BELLPEARL®

Air Water offers "Bellpearl®," an environmentally friendly particulate phenolic resin; "Bellfine®," a functional new carbon made by the highly controlled burning and carbonizing of Bellpearl resin; and "Bellswing[®]," a PSA-type nitrogen gas generator that uses Bellfine carbon as an absorbent.



(Iwaki City, Fukushin

ECOROCA®

Electricity

Our Industrial Gas Business consumes a vast amount of electricity in its manufacturing processes. To ensure business continuity in all circumstances, including major disasters, we believe it is crucial to become self-sufficient by securing baseload power. To this end, we have begun power generation using woody biomass, a renewable energy source. We are also engaged in small-scale power generation using woody biomass, and are working to establish a renewable energy use model for local communities.

Air Water & Energia Power Yamaguchi (Hofu City, Yamaguchi)



Generation capacity: approx. 112,000 kW (Began operations in July 201

High-Power UPS Systems

High-power uninterruptible power supplies (UPS) are essential for avoiding power supply issues-such as voltage dips and power outages-and

ensuring stable operation in semiconductor factories and data centers. Through Power Partners (Singapore) and Hitec Holding (the Netherlands), we are providing safe and reliable UPS solutions to our customers.





With unique technologies and products such as aerosols, O-rings, ECOROCA® building material made from recycled wood, and NV metal surface treatments, our operations in this segment underpin the growth of the Air Water Group. We are also pursuing new ventures such as power generation using woody biomass and global engineering.

Electronics Materials

Leveraging its global network, Air Water offers a wide range of chemical products for various industries, from basic chemicals to high-purity chemicals, electric insulating materials and resin molded items for the elec-



Air Water manufactures and sells ECOROCA®. a new compound recycled material made from underutilized resources such as waste wood and waste plastic. Delivering excellent strength and safety while maintaining the texture of wood, ECOROCA® is used as decking material, louver material, and wall material at various sites, mainly public facilities.



Air Water & Energia Power Onahama

O-rings

Air Water manufactures and sells various types of seal materials such as rubber O-rings and other rubber products for industrial use. For semiconductor manufacturing systems, it offers a lineup under the Pororoca brand of ultra high-performance rubber O-rings. Recently, it has developed and started selling O-rings made of perfluoroelastomer (FFKM), which have the world's highest level of heat resistance,

and O-rings made from general-purpose fluoroelastomer rubber (FKM).



NV (Metal Surface Treatments)

We offer a range of unique surface treatments, including: NV nitriding, which uses gas activation and atmospheric control to improve the abrasion resistance of metal; Pionite, which hardens stainless steel without compromising its corrosion resistance: and CR-NITE, which can withstand 1000°C temperatures.



SiC

We have developed our own SiC substrate for products such as power and high-frequency semiconductors. We have also successfully established a technology for large-diameter substrates of up to eight inches and mass-produced the substrates, which are deemed the most suitable for the growth of GaN (gallium nitride).



Engineering and Equipment

In the North American Market, we produce and sell industrial-use low-temperature gas equipment-both stationary-type and those for transport-and carbon

dioxide equipment, while we also undertake engineering work for industrial gas production plants. Through these businesses, not only are we increasing the presence of the Air Water brand, but by reinforcing partnerships with gas dealers. we are building an industrial gas business in the North American market.



Major Group Companies (as of October 1, 2020)

Company Name	Head Office	Major Business Activities	Share of Voting Rights (%)
Regional Business Comp	anies		
Air Water Hokkaido Inc.	Sapporo City, Hokkaido	Sale of industrial gas and medical gas, LP gas, and related equipment	100.0
Air Water East Japan Inc.	Minato-ku, Tokyo	Sale of industrial gas and medical gas, LP gas, and related equipment	
Air Water West Japan Inc.	ir Water West Japan Inc. Osaka City, Osaka Sale of industrial gas and medical gas, LP gas, and related equipment		100.0
Industrial Gas Business			
NSCC Air Water Inc.	Chuo-ku, Tokyo	Manufacture and sale of industrial gas	65.0
Air Water Carbonic Inc.	Minato-ku, Tokyo	Manufacture and sale of liquid nitrogen gas and dry ice	100.0
Air Water Hydrogen Corp.	Minato-ku, Tokyo	Manufacture and sale of industrial hydrogen gas	95.0
Nihon Dennetsu Co., Ltd.	Azumino City, Nagano	Manufacture and sale of electric heating devices and controllers for industrial applications	100.0
Air Water Cryoplant, Ltd.	Osaka City, Osaka	Design, production and maintenance of cryogenic air separation units	100.0
Air Water Plant & Engineering Inc.	Sakai City, Osaka	Design, production, sale and maintenance of various types of gas generation units, gas applications, and related equipment	
	. India Manufacture and sale of industrial gas		
Air Water India Pvt. Ltd.	India	Manufacture and sale of industrial gas	100.0
Air Water India Pvt. Ltd. Chemical Business	India	Manufacture and sale of industrial gas	100.0
	India Kawasaki City, Kanagawa	Manufacture and sale of industrial gas Manufacture and sale of organic acid products, organic acid derivatives, and quinone-based products	100.0
Chemical Business			
Chemical Business Kawasaki Kasei Chemicals Ltd. Daito Chemical Co., Ltd.	Kawasaki City, Kanagawa	Manufacture and sale of organic acid products, organic acid derivatives, and quinone-based products	100.0
Chemical Business Kawasaki Kasei Chemicals Ltd. Daito Chemical Co., Ltd.	Kawasaki City, Kanagawa	Manufacture and sale of organic acid products, organic acid derivatives, and quinone-based products	100.0
Chemical Business Kawasaki Kasei Chemicals Ltd. Daito Chemical Co., Ltd. Medical Business	Kawasaki City, Kanagawa Hiratsuka City, Kanagawa	Manufacture and sale of organic acid products, organic acid derivatives, and quinone-based products Production and sale of inorganic and organic chemical products, and contract manufacturing and sale of chemical mixing and filling	100.0 100.0
Chemical Business Kawasaki Kasei Chemicals Ltd. Daito Chemical Co., Ltd. Medical Business Misawa Medical Industry Co., Ltd.	Kawasaki City, Kanagawa Hiratsuka City, Kanagawa Kasama City, Ibaraki	Manufacture and sale of organic acid products, organic acid derivatives, and quinone-based products Production and sale of inorganic and organic chemical products, and contract manufacturing and sale of chemical mixing and filling Production and sale of needles and syringes, etc.	100.0 100.0 100.0
Chemical Business Kawasaki Kasei Chemicals Ltd. Daito Chemical Co., Ltd. Medical Business Misawa Medical Industry Co., Ltd. Air Water Medi H, Co., Ltd.	Kawasaki City, Kanagawa Hiratsuka City, Kanagawa Kasama City, Ibaraki Shinagawa-ku, Tokyo	Manufacture and sale of organic acid products, organic acid derivatives, and quinone-based products Production and sale of inorganic and organic chemical products, and contract manufacturing and sale of chemical mixing and filling Production and sale of needles and syringes, etc. Contract sterilization of medical equipment and materials, and SPD services for medical institutions	100.0 100.0 100.0 100.0
Chemical Business Kawasaki Kasei Chemicals Ltd. Daito Chemical Co., Ltd. Medical Business Misawa Medical Industry Co., Ltd. Air Water Medi H, Co., Ltd. Air Water Link Inc.	Kawasaki City, Kanagawa Hiratsuka City, Kanagawa Kasama City, Ibaraki Shinagawa-ku, Tokyo Kyoto City, Kyoto	Manufacture and sale of organic acid products, organic acid derivatives, and quinone-based products Production and sale of inorganic and organic chemical products, and contract manufacturing and sale of chemical mixing and filling Production and sale of needles and syringes, etc. Contract sterilization of medical equipment and materials, and SPD services for medical institutions Sale and maintenance of cardiovascular devices, dialysis devices, and surgical equipment	100.0 100.0 100.0 100.0 97.2
Chemical Business Kawasaki Kasei Chemicals Ltd. Daito Chemical Co., Ltd. Medical Business Misawa Medical Industry Co., Ltd. Air Water Medi H, Co., Ltd. Air Water Link Inc. Denken-Highdental Co., Ltd.	Kawasaki City, Kanagawa Hiratsuka City, Kanagawa Kasama City, Ibaraki Shinagawa-ku, Tokyo Kyoto City, Kyoto Kyoto City, Kyoto	Manufacture and sale of organic acid products, organic acid derivatives, and quinone-based products Production and sale of inorganic and organic chemical products, and contract manufacturing and sale of chemical mixing and filling Production and sale of needles and syringes, etc. Contract sterilization of medical equipment and materials, and SPD services for medical institutions Sale and maintenance of cardiovascular devices, dialysis devices, and surgical equipment Design, production and sale of dental equipment, dental materials, and laboratory equipment	100.0 100.0 100.0 100.0 97.2 96.1
Chemical Business Kawasaki Kasei Chemicals Ltd. Daito Chemical Co., Ltd. Medical Business Misawa Medical Industry Co., Ltd. Air Water Medi H, Co., Ltd. Air Water Link Inc. Denken-Highdental Co., Ltd. Kawamoto Corporation	Kawasaki City, Kanagawa Hiratsuka City, Kanagawa Kasama City, Ibaraki Shinagawa-ku, Tokyo Kyoto City, Kyoto Kyoto City, Kyoto Osaka City, Osaka	Manufacture and sale of organic acid products, organic acid derivatives, and quinone-based products Production and sale of inorganic and organic chemical products, and contract manufacturing and sale of chemical mixing and filling Production and sale of needles and syringes, etc. Contract sterilization of medical equipment and materials, and SPD services for medical institutions Sale and maintenance of cardiovascular devices, dialysis devices, and surgical equipment Design, production and sale of dental equipment, dental materials, and laboratory equipment Manufacture and sale of sanitary products, medical supplies, etc.	100.0 100.0 100.0 100.0 97.2 96.1 50.1

Agriculture and Food Products Business

Saveur SS Inc.	Sapporo City, Hokkaido	Manufacture and sale of processed meat products (ham and delicatessen), ingredient-type frozen foods and cooking sauces	
Tomiichi Co., Ltd.	Asahikawa City, Hokkaido Wholesale and processing of fruit and vegetables for processing, and sale of frozen foods, etc.		90.0
Gold Pak Co., Ltd.	d. Shinagawa-ku, Tokyo Manufacture and sale of fruit and vegetable juices and other beverages including some soft drinks		100.0
Kyusyuya Co., Ltd.	ruya Co., Ltd. Hachioji City, Tokyo Operation of fruit and vegetable retailing stores in department stores, station buildings and shopping centers		55.0
Plecia Co., Ltd.	Atsugi City, Kanagawa	Manufacture and sale of Japanese confectionery and Western confectionery	×

*Wholly owned subsidiary of Saveur SS Inc.

Air Water's

Logistics Business

ir Water Logistics Co., Ltd. Sapporo City, Hokkaido Distribution of high-pressure gas, general freight, food, medical and environmental items, and distributive processing services		100.0	
Hokkaido Shatai Co., Ltd. Kitahiroshima City, Hokkaido Design, manufacture, sale, and repair of truck bodies; vehicle inspection and certification		Design, manufacture, sale, and repair of truck bodies; vehicle inspection and certification	82.6
Air Water Food Logistics Co., Ltd. Sendai City, Miyagi Low-temper		Low-temperature food distribution, and contract warehouse storage and warehouse work	100.0
East Japan Air Water Logistics Co., Ltd. Yokohama City, Kanagawa Distribution of high-pressure gas, general freight, food, medical and		Distribution of high-pressure gas, general freight, food, medical and environmental items, and distributive processing services	100.0
West Japan Air Water Logistics Co., Ltd.	t Japan Air Water Logistics Co., Ltd. Osaka City, Osaka Distribution of high-pressure gas, general freight, food, medical and environmental items, and distributive processing services		100.0

Seawater Business

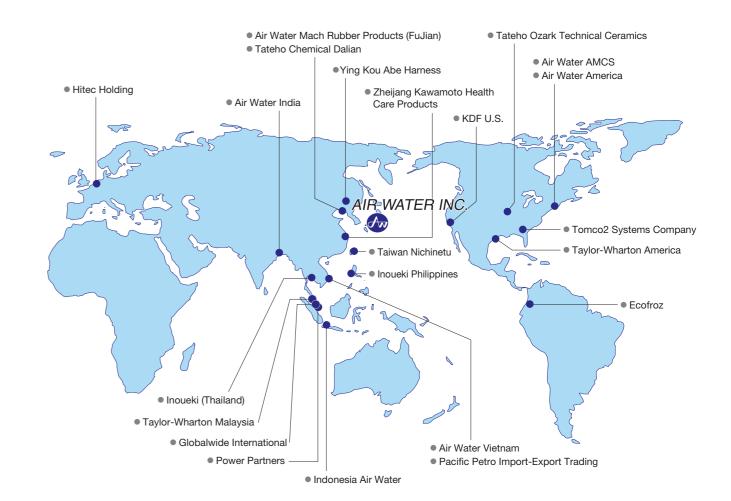
Nihonkaisui Co., Ltd.	Chiyoda-ku, Tokyo	Production and sale of salt and salt byproducts; environmental business, electric power business	76.9
Tateho Chemical Industries Co., Ltd. Chiyoda-ku, Tokyo Production and sale of magnesium oxide, fused magnesia, magnesium hydroxide, and ceramic products		100.0	
Aquaintec Corporation	Kakegawa City, Shizuoka	Pipe renewal business, manufacturing of water treatment machinery, and sale of environmental equipment and materials	*

*Wholly owned subsidiary of Nihonkaisui Co., Ltd.

Other Businesses

Other Busiliesses			
Air Water Sol Inc.	Chiyoda-ku, Tokyo	OEM supply of aerosol products, and manufacture and sales of its own branded products	
Air Water Materials Inc.	Minato-ku, Tokyo	Sale and export/import of semiconductor manufacturing chemicals, chemical industry chemicals, synthetics resins, and electric and electronic materials	
K&O Energy Group Inc.	Mobara City, Chiba	a Business management of subsidiaries which are engaged in the gas business, iodine business, etc.	
Air Water Mach Inc.	Matsumoto City, Nagano	Manufacture and sale of industrial rubber products and resin products	
Air Water & Energia Power Yamaguchi Co., Ltd.	Hofu City, Yamaguchi	hi Operation and maintenance of woody biomass and coal co-combustion power plants, and sales of the power from those plants	
Matsuo Holdings K.K.	. Kitakyushu City, Fukuoka Business management of subsidiaries engaged in construction work, engineering work, and paving work, etc.		65.0
Power Partners Pte. Ltd.	Singapore Engineering and maintenance of uninterruptible power supplies		60.0
Hitec Holding B.V.	The Netherlands	Business management of subsidiaries that produce and sell rotary-type uninterruptable power supplies	100.0





Corporate Profile / Principal Shareholders

Corporate Information		(as of March 31, 2020)
Company Name	AIR WATER INC.	
Head Office	12-8, Minami-Semba 2-chome 542-0081, Japan	e, Chuo-ku, Osaka,
	Tel: (+81) 6-6252-5411 Fax: ((+81) 6-6252-3965
Tokyo Office 18-19, Toranomon 3-chome, Mina 105-0001, Japan		Vinato-ku, Tokyo,
Established	September 24, 1929	
Paid-in Capital	¥55,855 million	
Number of Employees	18,211 (consolidated)	
URL	https://www.awi.co.jp/english/	

Principal Shareholders	(as o	(as of March 31, 2020)		
Company	Number of shares held (thousands)	Ratio of shares held (%)		
The Master Trust Bank of Japan, Ltd. (trust account)	16,051	7.06		
Japan Trustee Services Bank, Ltd. (trust ac	count) 11,162	4.91		
Nippon Steel Corporation	10,000	4.40		
Sumitomo Mitsui Trust Bank, Limited	7,936	3.49		
Sumitomo Mitsui Banking Corporation	6,196	2.72		
Air Water Customers' Stockholding	5,428	2.39		
J.P. MORGAN BANK LUXEMBOURG S.A. 130	0000 5,161	2.27		
North Pacific Bank, Ltd.	4,428	1.95		
The Hokkaido Bank, Ltd.	4,113	1.81		
Osaka Gas Liquid Co., Ltd.	3,786	1.66		

*Ratios of shares held have been calculated based on the total number of issued shares excluding treasury stock (2,253,304).