

Iwatani

CORPORATE BROCHURE

2022 Iwatani Corporation



Corporate Philosophy

Become a person needed by society, as those needed by society can prosper

Our corporate philosophy expresses the business philosophy of our founder Naoji Iwatani, which is based on the principle that only companies capable of evolving and adapting to the world around them can survive in the marketplace.

After revolutionizing home fuel sources and dramatically reducing the amount of work required of homemakers in the kitchen, our core LPG business today supports domestic lifeline as a clean and reliable energy source for daily life, industries, and even in emergencies.

Hydrogen, for which our founder worked to develop a market from scratch since 1941, today is fast taking root in society beyond industrial applications, as the ultimate energy source for a decarbonized society.

Countless social challenges remain to be solved, including environmental issues such as global warming. Iwatani continues striving to achieve a sustainable, cyclical, and decarbonized society by constantly creating and providing the innovations and solutions needed by society.

Contents

P. 1 Corporate Philosophy and Medium-Term Management Plan	P. 23 Materials Business
P. 3 To Our Stakeholders	P. 25 Agri-Bio & Foods Business
P. 5 Our History	P. 27 Iwatani R&D Center and Iwatani Advanced Hydrogen Technology Center
P. 7 Four Business Fields	P. 29 Sustainability
P. 9 Iwatani in 5 Minutes	P. 31 Organizational Chart and Corporate Profile
P. 11 Low-/Zero-Carbon Solutions	P. 33 Domestic Network and Major Domestic Affiliated Companies
P. 13 Hydrogen Business	P. 35 Global Network
P. 15 Integrated Energy Business	P. 37 Gas Supply Network
P. 19 Industrial Gases & Machinery Business	

Medium-Term Management Plan “PLAN23” (FY2021-FY2023)

Iwatani has established its PLAN23 fifth medium-term management plan for the three-year period from fiscal 2021 to 2023.

The goal is to achieve a carbon-free society involving the entire Iwatani Group through joint gas and energy efforts involving the various Group businesses.

Theme and Basic Policies

- Theme** Establishing a hydrogen energy-based society
Assuming challenges beyond the boundaries of business frameworks
- Basic Policies** Enhancing strategic investment to establish a carbon-free society; promotion of digitization

Key Issues (Materiality)



Basic Strategies

- Enhancing initiatives toward a carbon-free society
- Evolving into a comprehensive energy lifestyle service provider
- Expanding international businesses

Management Targets

Management Indicators	Targets (fiscal year ending March 2024)
Ordinary Income	¥40.0 billion
ROE (Return on Equity)	9% or higher

Scan here for more information on PLAN23.





Chairman and CEO

Akiji Makino

President

Hiroshi Majima

Contributing to society as a trusted company by creating new value

Since our founding in 1930, Iwatani Corporation has provided a wide range of products and services for both daily life and industrial applications, including energy, industrial gases, materials, and food products, based on our corporate philosophy: Become a person needed by society, as those needed by society can prosper. These efforts are grounded in our desire to contribute to society by creating new value society will need in the future. This is the major driving force underlying the progress of our businesses.

In 1941, we identified hydrogen as the ultimate clean energy source. Since then, we have pushed for progress toward widespread use of hydrogen energy. Under the corporate slogan adopted in 1970 on the 40th anniversary of our founding—Creation of a more comfortable space on the Earth is what Iwatani wishes and strives for—we strive to deliver solutions to the social challenges posed by environmental issues, as well as help achieve the Sustainable Development Goals (SDGs), through contributing to create a carbon-free society based on hydrogen.

With the goal of realizing a hydrogen energy-based society as soon as possible, Iwatani Corporation works to promote the use of hydrogen on a global scale as a co-representative member of the Japan Hydrogen Association (established in December 2020) and lead member of the Hydrogen Council (organization formed by energy-related firms around the world).

To stimulate new hydrogen demand, we are developing hydrogen-refueling stations for fuel cell vehicles (FCVs), expanding our network of hydrogen-refueling stations in the US state of California (a pioneer in FCVs), and also considering producing liquid hydrogen in California at some point in the future.

Iwatani is moving ahead with various initiatives to secure sources of CO₂-free hydrogen. Internationally, in addition to participating in a project involving the transport and storage of large volumes of liquid hydrogen produced in Australia, we are

considering commercializing green liquid hydrogen production in partnership with Australian electric power companies and iron ore producers.

Selected by the New Energy and Industrial Technology Development Organization (NEDO) Green Innovation Fund, our Demonstration Project for the Commercialization of Liquefied Hydrogen Supply Chain will establish the world's first hydrogen liquefaction and transport technologies on the scale of tens of thousands of tons per year. The project will also demonstrate a large-scale international liquid hydrogen supply chain, from hydrogen production through liquefaction, shipping, sea transport, and receiving.

In Japan, we participate in the Fukushima Plan for a New Energy Society, which strives to produce green hydrogen through power generation by renewable energy. We are also considering practical implementation from multiple perspectives, including producing green hydrogen from biomass and liquid hydrogen from brown coal in Hokkaido.

At the same time, our LPG business, among our core enterprises, is built on a nationwide customer base of more than 3.3 million households. We create new services that help resolve social challenges by drawing on this base of real world users and our proprietary Iwatani GateWay IoT platform as central elements of a network of digital points of contact. We are making proactive efforts to decarbonize LPG, including reducing carbon by targeting the co-firing of LPG with hydrogen and other energy sources and achieving propanation. Through these efforts, we will evolve into an energy & living total service provider chosen by customers and communities.

As we advance toward our 100th anniversary and beyond, we remain firmly committed to achieving sustained growth as an evolving comprehensive energy service provider. To do so, we will continue to offer new value to all our customers, shareholders and investors, supply chain partners, local communities, and employees.

Our History

Company History

1930

Iwatani Naoji Shoten founded



1945

Iwatani Corporation established



1962

Shares listed on second section of Osaka Securities Exchange (in August) and Tokyo Stock Exchange (in December)

1965

Shares listed on first sections of Osaka Securities Exchange and Tokyo Stock Exchange (both in April)

1972

Designated a friendly trading company by China; start of full-scale trading with China

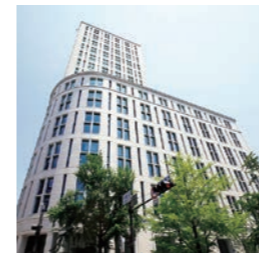
1987

Iwatani logo adopted Sponsorship of NHK Symphony Orchestra begins



2010

Osaka Head Office relocated



2011

Companywide response to the Great East Japan Earthquake includes urgent shipment of relief supplies (e.g., portable gas cooking stoves and cassette gas canisters)



2013

Completion of Iwatani R&D Center as new technological center



2017

Establishment of Iwatani Athletics Club with Hisakazu Hirose as head coach, with Mizuki Noguchi also joining in 2019 as advisor



2021

Iwatani Advanced Hydrogen Technology Center established to develop new hydrogen and decarbonization technologies

1930

1940

1950

1960

1970

1980

1990

2000

2010

2020-

1941

Sales of hydrogen begin

1952

Sales of synthetic resins begin



1953

First in Japan to launch nationwide sales of propane gas for household use



1953

Sales of rutile sand (a coating material) begin



1958

In-house hydrogen production begins



1960

Import and sale of brooder poultry farming equipment begins



1964

Marui propane supplied for Tokyo Olympic Torch



1969

Sales of Cassette-Feu, Japan's first hose-free cooking stove, begin



1969

Sales of MIHARI gas leak alarms begin



1974

Sales of frozen foods begin



1975

Cold Air Products Ltd. Entry established into the field of industrial gas production



1977

Agency agreement concluded with Yaskawa Electric Manufacturing (now Yaskawa Electric Corporation); first sales of welding robots



1978

Operations commence at Japan's first large-scale commercial liquid hydrogen production plant



1980

Sakai LPG Terminal for LPG imports completed; direct imports begin from gas-producing countries



1982

Establishment of Iwatani Camborough Co., Ltd.; agreement concluded with Pig Improvement Company (PIC)



1985

Business partnership formed with Union Carbide Corporation



1988

Establishment of Iwatani Agri Green Co., Ltd.

1988

Sales of MILLSER food mills begin



1989

Dalian Iwatani Gas Machinery Co., Ltd. established as joint venture with the City of Dalian, China

1991

Launch of the Pacific Century, the first company-owned LPG tanker



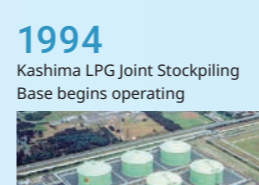
1993

Marui Propane rebranded Marui Gas on its 40th anniversary



1994

Kitsuregawa Separate Gas Plant air-gas production facility begins operating



1994

Kashima LPG Joint Stockpiling Base begins operating



1995

The MaruiGas Disaster Relief Corps formed in response to the Great Hanshin-Awaji Earthquake



1997

Doral Mineral Industries Ltd. (of Australia) acquired

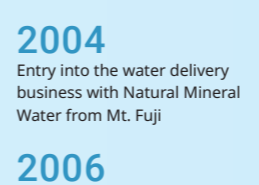
2000

Entry into the LNG sales business in partnership with electric power companies



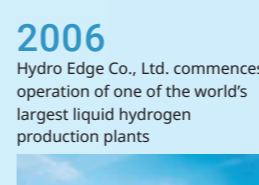
2002

Completion of Japan's first full-scale hydrogen-refueling station in Torishima, Osaka



2004

Entry into the water delivery business with Natural Mineral Water from Mt. Fuji



2006

Hydro Edge Co., Ltd. commences operation of one of the world's largest liquid hydrogen production plants



2006

First Iwatani Hydrogen Energy Forum

2009

Saudi Aramco-Iwatani Emergency LP Gas Relief Program established

2009

Eastern Japan's first liquid hydrogen production plant opens at the Chiba Plant of Iwatani Industrial Gases Corporation

2010

Osaka Helium Center begins operating



2012

Work begins on disaster-resistant Core LPG Centers



2012

Sales of eco-friendly bio-PET resins begin



2013

Sourcing of helium from Qatar begins



2014

Iwatani Hydrogen-Refueling Station Amagasaki, Japan's first commercial hydrogen station, begins operating



2015

Sales of PKS biomass fuel begin



2016

Entry into retail electricity business



2017

Entry into city gas retail business



2017

Joins Hydrogen Council

2018

Joins Japan H₂ Mobility, LLC (JHyM)

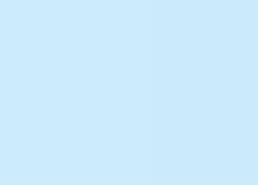
2019

Completion of Tokyo Helium Center, one of Japan's largest helium filling capacities, and start of operations



2019

Acquisition of hydrogen-refueling stations and start of operations at four locations in California



2020

Joins Japan Hydrogen Association as co-representative member



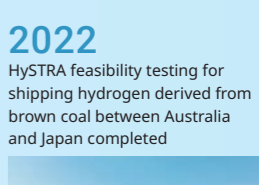
2021

Iwatani GateWay service begins



2021

"Demonstration project for the commercialization of liquefied hydrogen supply chain" selected as NEDO's Green Innovation Fund



2022

HySTRA feasibility testing for shipping hydrogen derived from brown coal between Australia and Japan completed



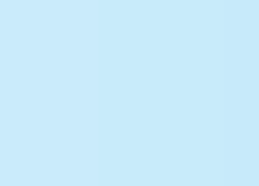
2022

Acquisition of Tokico System Solutions, Ltd.

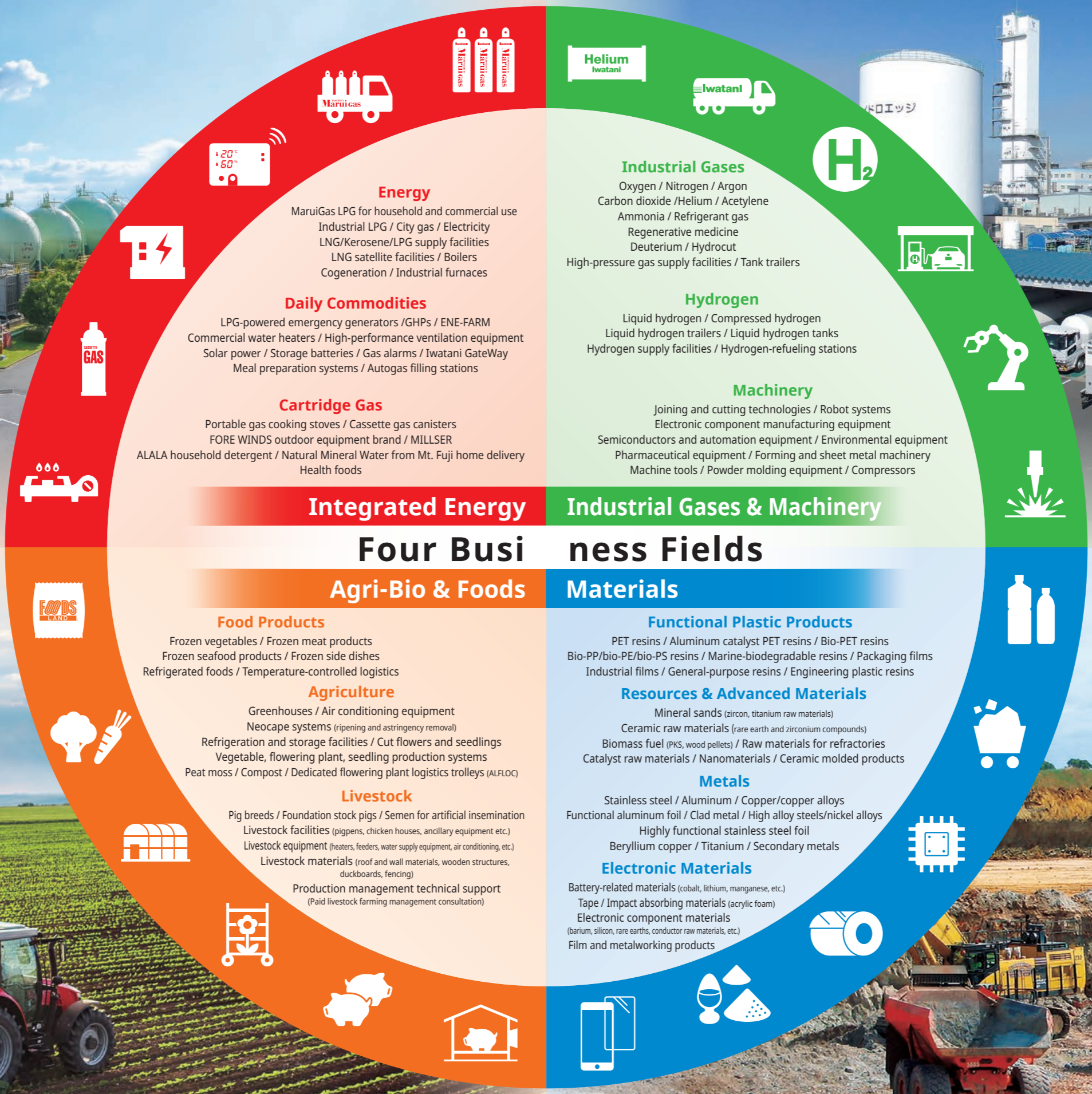


2022

Acquires stock of Tokyo Gas Group LPG companies and establishes Enelife Corporation



Business Developments



Energy
 MaruiGas LPG for household and commercial use
 Industrial LPG / City gas / Electricity
 LNG/Kerosene/LPG supply facilities
 LNG satellite facilities / Boilers
 Cogeneration / Industrial furnaces

Daily Commodities
 LPG-powered emergency generators / GHPs / ENE-FARM
 Commercial water heaters / High-performance ventilation equipment
 Solar power / Storage batteries / Gas alarms / Iwatani GateWay
 Meal preparation systems / Autogas filling stations

Cartridge Gas
 Portable gas cooking stoves / Cassette gas canisters
 FORE WINDS outdoor equipment brand / MILLSER
 ALALA household detergent / Natural Mineral Water from Mt. Fuji home delivery
 Health foods

Helium Iwatani

Industrial Gases
 Oxygen / Nitrogen / Argon
 Carbon dioxide / Helium / Acetylene
 Ammonia / Refrigerant gas
 Regenerative medicine
 Deuterium / Hydrocut
 High-pressure gas supply facilities / Tank trailers

Hydrogen
 Liquid hydrogen / Compressed hydrogen
 Liquid hydrogen trailers / Liquid hydrogen tanks
 Hydrogen supply facilities / Hydrogen-refueling stations

Machinery
 Joining and cutting technologies / Robot systems
 Electronic component manufacturing equipment
 Semiconductors and automation equipment / Environmental equipment
 Pharmaceutical equipment / Forming and sheet metal machinery
 Machine tools / Powder molding equipment / Compressors

Integrated Energy

Four Business Fields

Industrial Gases & Machinery

Materials

Agri-Bio & Foods

Food Products
 Frozen vegetables / Frozen meat products
 Frozen seafood products / Frozen side dishes
 Refrigerated foods / Temperature-controlled logistics

Agriculture
 Greenhouses / Air conditioning equipment
 Neocape systems (ripening and astringency removal)
 Refrigeration and storage facilities / Cut flowers and seedlings
 Vegetable, flowering plant, seedling production systems
 Peat moss / Compost / Dedicated flowering plant logistics trolleys (ALFLOC)

Livestock
 Pig breeds / Foundation stock pigs / Semen for artificial insemination
 Livestock facilities (piggens, chicken houses, ancillary equipment etc.)
 Livestock equipment (heaters, feeders, water supply equipment, air conditioning, etc.)
 Livestock materials (roof and wall materials, wooden structures, duckboards, fencing)
 Production management technical support
 (Paid livestock farming management consultation)

Functional Plastic Products
 PET resins / Aluminum catalyst PET resins / Bio-PET resins
 Bio-PP/bio-PE/bio-PS resins / Marine-biodegradable resins / Packaging films
 Industrial films / General-purpose resins / Engineering plastic resins

Resources & Advanced Materials
 Mineral sands (zircon, titanium raw materials)
 Ceramic raw materials (rare earth and zirconium compounds)
 Biomass fuel (PKS, wood pellets) / Raw materials for refractories
 Catalyst raw materials / Nanomaterials / Ceramic molded products

Metals
 Stainless steel / Aluminum / Copper/copper alloys
 Functional aluminum foil / Clad metal / High alloy steels/nickel alloys
 Highly functional stainless steel foil
 Beryllium copper / Titanium / Secondary metals

Electronic Materials
 Battery-related materials (cobalt, lithium, manganese, etc.)
 Tape / Impact absorbing materials (acrylic foam)
 Electronic component materials
 (barium, silicon, rare earths, conductor raw materials, etc.)
 Film and metalworking products

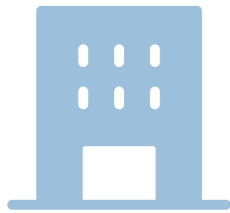
Iwatani in 5 Minutes

What Kind of Company Is Iwatani?

As of March 31, 2022

Founded

1930



Founded as "Iwatani Naoji Shoten" by Naoji Iwatani in 1930. The company began with sales of welding rods, carbide, and similar products.

Capital

¥35.096 billion



Capital increased from ¥20 billion to ¥35 billion in 2020.

Number of locations

In Japan

49

Overseas

69



Iwatani is expanding business overseas to increase its presence globally in a wide range of fields.

Consolidated number of employees

10,163

Number of group companies

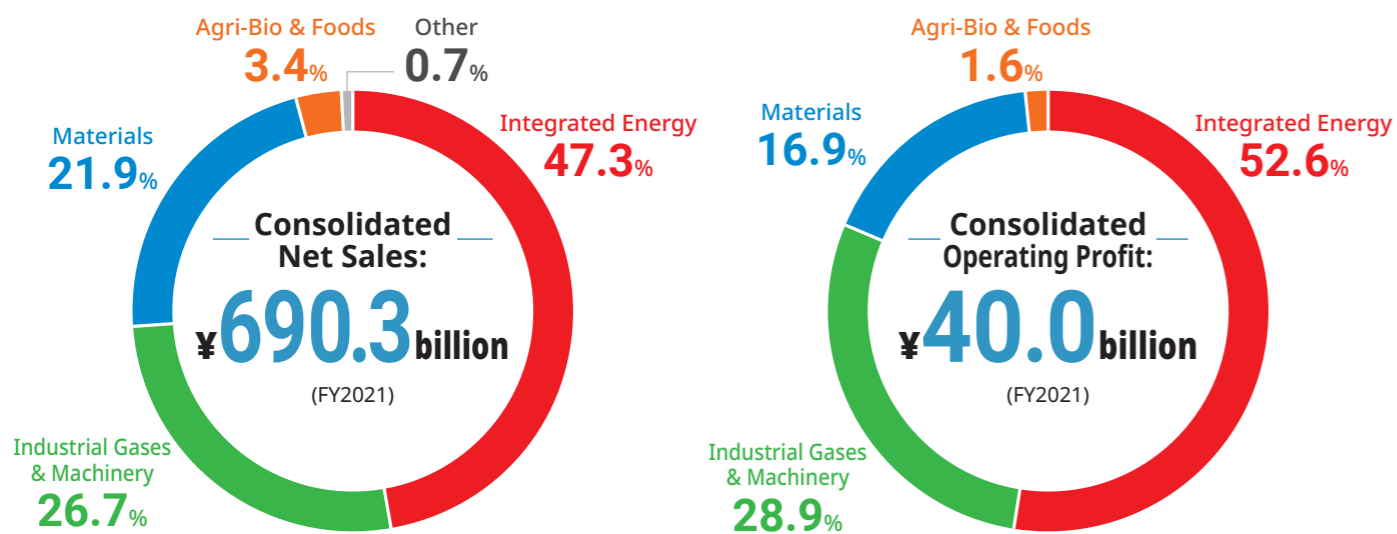
237

Including

102

consolidated subsidiaries

Net Sales and Operating Profit



* Excludes other businesses/adjustments.

Iwatani as Number One

Household LPG

Retail

1.09 million households

Wholesale

over 3.3 million households



In 1953, Iwatani became Japan's first company to sell propane gas across the country for household use. Iwatani's MaruiGas LPG brand holds largest market share in Japan. More than 3.3 million households across the country use MaruiGas LPG.

* As of June 30, 2022 (Iwatani data)

LPG centers

Primary/secondary/tertiary terminals

104 locations



To ensure a stable supply of LPG, indispensable for our daily lives, Iwatani has established a nationwide supply network, from import to home delivery.

* As of August 1, 2022 (Iwatani data)

Portable gas cooking stoves and cassette gas canisters

Portable gas cooking stoves

4,585 thousand units

Cassette gas canisters

154 million units



Top share in Japan

Since the launch of its portable gas cooking stoves and cassette gas canisters in 1969, Iwatani has continued to support home cooking needs, and has responded to expanding demand from the home to the outdoor leisure market.

* As of March 31, 2022 (Iwatani data). Quantities include both Japanese and overseas sales volumes.

Helium

Japanese share

Approx. 50%



Helium is a rare resource essential for leading edge industries. Iwatani has established a stable supply system for helium procured from the US and Qatar.

* Source: 2022 Gas Georama in Japan

Hydrogen

Japanese share of compressed and liquid hydrogen

Approx. 70%

Japanese share of liquid hydrogen

100%



Some 80 years have passed since Iwatani began selling hydrogen in 1941. Iwatani remains committed to building and operating a global liquid hydrogen supply chain to bring to reality a society based on hydrogen energy.

* As of May 31, 2022 (Iwatani data); excludes on-site piping.

Hydrogen-refueling stations

In Japan

53 locations



Iwatani is working to provide hydrogen-refueling stations in Japan and the US in response to growing use of fuel cell vehicles (FCVs) and fuel cell trucks.

* As of March 31, 2022

Bio-PET resin

Japanese share

Approx. 70%



Eco-friendly PET resin manufactured from plant-based raw materials; Iwatani boasts the top share in Japan following the launch of related resin manufacture in 2010.

* As of March 31, 2022 (Iwatani data)

Pig breeding

Japanese share

Approx. 16%



Iwatani is the only total pig breeding supplier in Japan capable of supplying comprehensive solutions ranging from pig breeds to facilities and equipment and production technologies. Iwatani supports the growth of Japan's pig breeding production.

* As of March 31, 2022 (Iwatani data)

Low-/Zero-Carbon Solutions

Drawing on business foundations and technological capabilities established over the years, Iwatani provides low-carbon and zero-carbon solutions across a wide range of fields.

CO₂ visualization and valuation

CO₂ emissions calculation and visualization service

Iwatani offers customers, primarily in the manufacturing industry, the "Zeroboard Cloud Service" provided by Zeroboard Inc., which calculates CO₂ emissions and allows visualization of CO₂ emissions generated from their own business activities (Scopes 1 and 2) and from their entire supply chains (Scope 3) based on the GHG Protocol international standard.



Iwatani J-Credit Project for environmental valuation of CO₂ reductions

Allows CO₂ emissions reductions achieved by participating customers to be assessed by Iwatani and valued environmentally in the form of J-Credits. Customers can participate without undertaking time-consuming or costly certification procedures and receive credits such as Iwatani services corresponding to their CO₂ reductions.



Energy

Fuel conversion to LPG and LNG

Switching to energy with low CO₂ emissions is the ideal way to achieve major CO₂ reductions. Conversion from heavy oil and kerosene fuel to LPG and LNG can cut CO₂ emissions between 15% and 30%. It also provides access to subsidies via CO₂ reductions and energy savings.



Hydrogen energy usage

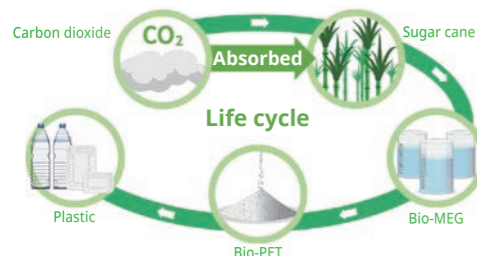
Iwatani was quick to see the potential of hydrogen and now boasts the largest share in the Japanese compressed hydrogen market. Iwatani is the only manufacturer of liquid hydrogen in Japan, giving it a 100% market share. Iwatani is also involved in activities such as supporting the construction of hydrogen-refueling stations, proposing pure hydrogen fuel cell and hydrogen-powered boilers, and feasibility testing of combustion using LPG and hydrogen mixtures.



Raw materials

Bio-PET/bio-PP/bio-PE resin supply

Iwatani provides bio-PET resin constituting approximately 30% plant-based PET resin obtained from biomass MEG refined from molasses extracted from sugar cane. It also provides bio-PP/bio-PE resins that use bio-naphtha obtained from waste materials, residue oil, and other recycled materials.



Ammonia supply

In addition to traditional industrial uses, ammonia is increasingly regarded as a future carbon-free fuel and as a medium for use in transporting hydrogen, a next generation energy source. Iwatani offers an extensive track record with ammonia denitrification facilities for use by Japanese electric power companies. It offers support for the design, construction, and safety management of ammonia supply facilities and can also provide industrial ammonia trailers and cylinders.

Renewable energy facility supply

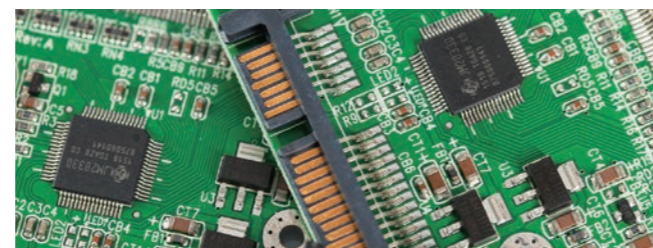
Solar power generation plays a major role in carbon-free electricity. Used in conjunction with storage batteries, it can dramatically reduce daytime electricity use. Iwatani offers an extensive track record for proposals and solutions involving solar power generation and solar power generation in conjunction with storage batteries and air conditioning equipment.

Biomass fuel supply

Iwatani supplies biomass fuels, including PKS produced as a byproduct of palm oil production, and wood pellets produced from wood waste resulting from thinning lumber and lumber plants. We supply PKS collected from environmentally certified palm oil extraction plants and wood pellets granted FSC or PEFC certification.

Recycle metal supply

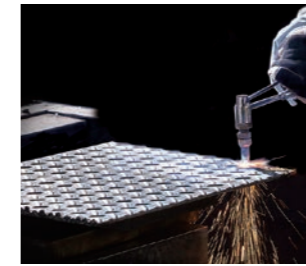
As global economic growth steadily drains natural resources, waste reduction and recycling initiatives have grown increasingly important. Discarded electronic circuit boards and components contain significant amounts of metals such as gold, silver, and copper. Iwatani procures recycled resources from overseas for supply to material manufacturers in Japan.



Production processes

Hydrocut[®] reduced-CO₂ cutting gas

Hydrocut[®] hydrogen-based premixed fusing gas is a mixture of ethylene and hydrogen, a clean energy gas. It can be used in the same way as conventional acetylene and reduces CO₂ emissions by 84% compared to acetylene (comparison based on LCA* calculations).



* LCA (Life Cycle Assessment) is a method for quantitatively evaluating the environmental burdens generated by a product over the entire life cycle (from collecting raw materials to raw material production, product production, distribution, consumption, disposal, and recycling).

Reduced-CO₂ burners and industrial furnaces

Pure oxygen burners and oxygen-enriched combustion enable the fuel energy to be used more efficiently compared to combustion in air, and they have a higher flame temperature, offering energy savings through increased productivity and time reductions. Iwatani offers a comprehensive service from burner system design to the supply of fuel.



Utilities

Steam and hot water line energy savings

Compared to oil-fire boilers, high-efficiency gas-fired steam boilers offer boiler efficiencies of up to 102%, while high-efficiency latent heat recovery type hot water boilers offer boiler efficiencies of up to 105%, reducing energy costs. Iwatani offers diagnostic and proposal solutions to minimize dissipated heat losses and improve overall system efficiency, including reassessments of steam and hot water lines.



Compressed air energy savings (air compressors)

Iwatani offers unrivalled experience with a wide range of air compressors, including screw types and turbo types, both large and small, enabling us to offer solutions by selecting the optimum equipment, minimizing the number of units required for optimal operation, and offering energy saving diagnoses and solutions to eliminate air wastage. Iwatani offers not just the compressors themselves, but also comprehensive energy-saving solutions encompassing efficiency improvements for peripheral dryer equipment.



Air conditioning energy savings (GHP, absorption type refrigeration units, EHP)

Reassessing air conditioning is ideal for reducing electricity consumption during the summer. In particular, switching from electric air conditioning to gas-powered air conditioning in the form of GHP and absorption type refrigeration units can dramatically reduce electricity consumption. Iwatani offers optimal air conditioning equipment energy-saving solutions to suit customer usage environments—for example, solutions based on the use of EHP in conjunction with gas-powered air conditioning and solutions involving reassessments of overall air conditioning arrangements.



Recycled fluorocarbon/natural refrigerant provision

In light of its high global warming potential of fluorocarbon, international environmental regulations have been implemented to gradually reduce its production and consumption. In response to proposals to achieve a 40% reduction (converted to CO₂) by 2024 compared to 2017, attention has turned to the use of recycled fluorocarbons and natural refrigerants (high-purity carbon dioxide and ammonia). Iwatani offers eco-friendly recycled fluorocarbons and eco-friendly natural refrigerants as replacements for fluorocarbons to help cut CO₂ emissions.



Exhaust gas cleaning equipment energy savings

For many years, Iwatani has offered a wide range of equipment that supports environmental protection efforts by reducing atmospheric pollution and facilitating water purification and waste processing. Regenerative thermal oxidizer (RTO) systems provide energy savings and CO₂ reductions based on honeycomb heat reservoirs with high heat exchange efficiency.



High-efficiency environmental control systems for livestock and plant factories

Iwatani offers equipment and total solutions that reduce environmental burdens. These solutions include cooling systems that use vaporization heat without relying on electricity; high thermal insulation panels; biodegradable planting pots; and support for switching to LPG for customers considering constructing or upgrading piggery facilities or agricultural production facilities.



Hydrogen Business



Hydrogen is used across a wide range of fields, including environmental and high tech, in fuel cells, semiconductor manufacturing, rocket fuel, among other application. With its pristine environmental characteristics, liquid hydrogen has the potential to replace fossil fuels and change our society. Iwatani was the first company in Japan to supply liquid hydrogen for industrial use. Now, through various projects and social initiatives, we are promoting the development of an infrastructure for a hydrogen-based society, including feasibility testing of CO₂-free hydrogen production, and working in anticipation of future growth in hydrogen demand.



Hydro Edge (Sakai, Osaka)

The hydrogen pioneer

Since 1941, Iwatani has been quick to focus on hydrogen's potential, helping to expand hydrogen use in Japan by working on hydrogen production, constructing supply chains, and developing applications. Iwatani holds the largest domestic market share for compressed hydrogen, and as Japan's only manufacturer it holds a 100% share of the liquid hydrogen market. Iwatani's Hydro Edge, one of the world's largest liquid hydrogen production plants, began operating in 2006, and in 2009 Iwatani opened the first liquid hydrogen production plant in East Japan—in Ichihara, Chiba. In 2013, Yamaguchi Liquid Hydrogen, Japan's third liquid hydrogen production plant, came online in Shunan, Yamaguchi. The liquid hydrogen produced at these three plants is used as rocket fuel for space development and is provided to more than 100 customers in the electronics, chemical, metal, and glass industries in Japan. It is also used in pure hydrogen fuel cells, hydrogen boilers, and other applications and supplied to hydrogen-refueling stations nationwide.

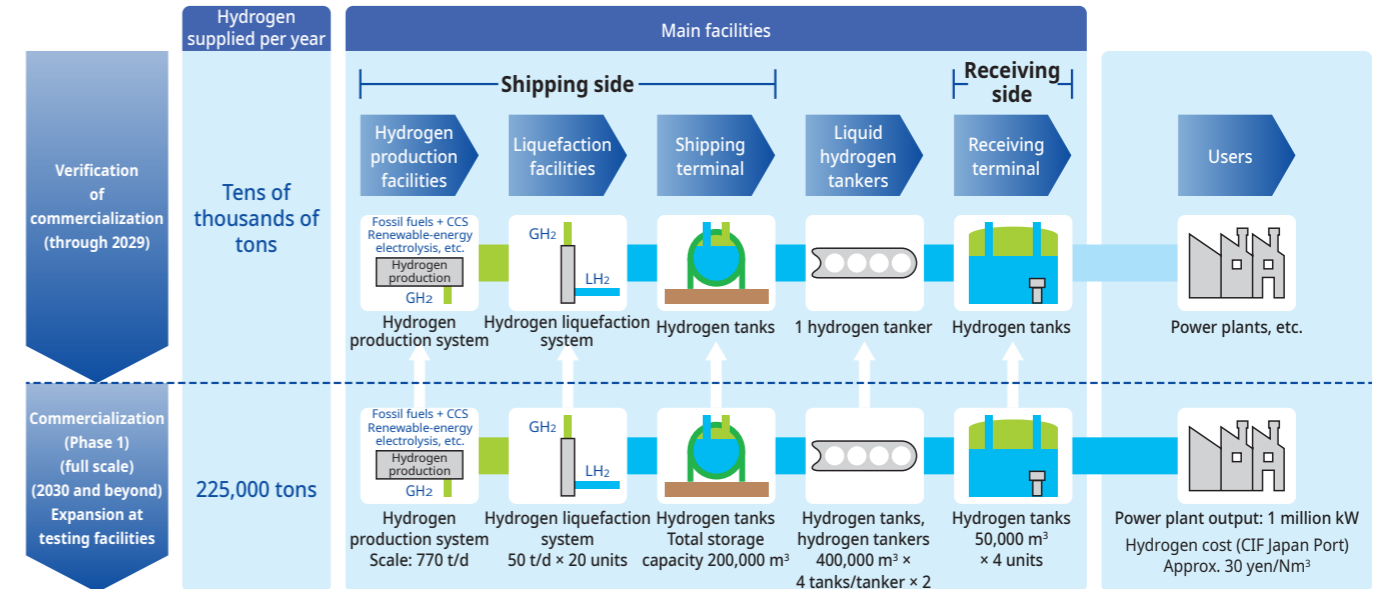


Panasonic Corporation Kusatsu Plant (power supplied by pure hydrogen fuel cells and solar panels)

Project evaluating the feasibility of commercial global liquefied hydrogen supply chain

Iwatani is pursuing initiatives to build a global supply chain for CO₂-free hydrogen with the aim of establishing a carbon-free society based on hydrogen energy. One initiative is the Green Innovation Fund/Large-scale Hydrogen Supply Chain Establishment, launched by the New Energy and Industrial Technology Development Organization (NEDO) in conjunction with Japan Suiso Energy, Ltd.* and ENEOS Corporation. As part of this project, Iwatani is undertaking commercialization feasibility studies to establish the world's first hydrogen liquefaction and transportation technologies on the scale of tens of thousands of tons annually to build an international liquid hydrogen supply chain encompassing hydrogen production, liquefaction, shipment, international transportation, and receiving. In these efforts, we are responsible for the overseas production of liquid hydrogen, examining terminals in Japan and abroad, and working with the demand side based on our customer base.

* 100% owned subsidiary of Kawasaki Heavy Industries, Ltd.



Source: Japan Suiso Energy, Ltd.

CO₂-free Hydrogen Energy Supply-chain Technology Research Association (HySTRA)

HySTRA*, of which Iwatani is a member, is currently demonstrating technologies for manufacturing hydrogen by gasifying untapped brown coal (low-grade coal) locally in Australia, liquefying it, and then transporting it in bulk. Iwatani has constructed cargo handling facilities on Kobe Airport Island with HySTRA in charge of proving testing, and has conducted feasibility testing of cargo handling technology for liquid hydrogen. In February 2022, using a liquefied hydrogen carrier, Iwatani completed the world's first feasibility test of marine transportation and cargo handling between Australia and Japan. The know-how and technology gained from work on this project will subsequently be applied to build a CO₂-free hydrogen supply chain.

* Made up of seven companies: Iwatani, Kawasaki Heavy Industries, Ltd., Shell Japan Ltd., Electric Power Development Co., Ltd., Marubeni Corporation, ENEOS Corporation, and Kawasaki Kisen Kaisha, Ltd.



The Suiso Frontier, a liquefied hydrogen carrier

Feasibility study into building large-scale green liquefied hydrogen supply chain between Australia and Japan

Since 2019, Iwatani and Stanwell have examined the large-scale production and exports of green liquid hydrogen to Japan. Based on the results, six Japanese and Australian companies* have launched full-scale feasibility testing. This feasibility testing primarily examines green hydrogen production technology, the design and construction of hydrogen liquefaction plants and tankers, and commercialization modeling. To achieve stable and low-cost long-term hydrogen production and supply, hydrogen production is envisaged to be on a scale of at least 100 tons per day by around 2026 and at least 800 tons per day in 2031 and beyond.

* The six companies are Iwatani, Kawasaki Heavy Industries, Ltd., Kansai Electric Power Co., Inc., Marubeni Corporation, and the Australia-based energy and infrastructure companies Stanwell Corporation Limited and APT Management Services Pty Ltd.



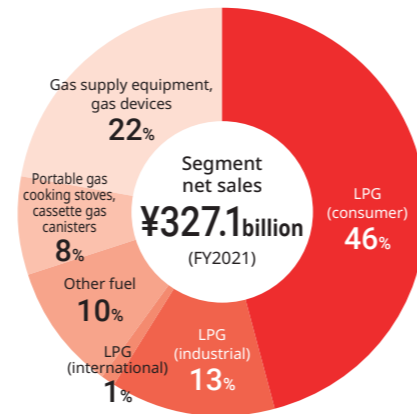
Hydrogen production facility planned for site in Aldoga, Australia (illustrative image)

Fukushima Hydrogen Energy Research Field (FH2R)

In the town of Namie in Fukushima, hydrogen will be produced, stored, and supplied by electrolyzing water using a hydrogen production system that uses electricity generated by solar power. Hydrogen produced at FH2R is supplied to facilities in Fukushima and has also been used in hydrogen-powered vehicles entered into endurance races by Toyota Motor Corporation.

Integrated Energy Business

As a leading LPG company, Iwatani has established an integrated system from import to supply and provides total services ranging from facilities construction to maintenance. Iwatani is also developing products and services to enrich people's lives, including portable gas cooking stoves and cassette gas canisters, Natural Mineral Water from Mt. Fuji, and Iwatani GateWay.



Sakai LPG Import Terminal (Sakai, Osaka)

Decarbonization Initiatives

Promoting fuel conversion

Conversion from heavy oil and kerosene fuel to LPG and LNG can cut CO₂ emissions between 15% and 30%. It also provides access to subsidies via CO₂ reductions and energy savings. Iwatani has been involved with approximately 100 fuel conversion projects nationwide every year. We offer one-stop support from proposals to construction, gas supply, and maintenance.



LPG supply facility

Boiler facility

Services utilizing the J-Credit scheme

The Iwatani J-Credit Project was established through using the J-Credit scheme administered by the Japanese government. This project targets customers who adopt high-efficiency boilers and/or use LPG, LNG, or city gas as boiler fuel, and involves Iwatani keeping track of the CO₂ emission reductions by participating customers and allowing them to be converted into environmental value in the form of J-Credits. Customers can participate in the system without undertaking time-consuming and costly certification procedures and can be reimbursed with Iwatani services as compensation based on the scale of the CO₂ reductions.



LPG Business

Establishing the only integrated supply system in Japan covering import to home delivery

As a leading supplier of LPGs for home, commercial, and industrial use, Iwatani operates its own import terminals and ocean tankers and has established an integrated system spanning import to supply to maintain a vital stable supply of LPG. Iwatani operates some 400 sales and delivery bases across the country and provides finely-tuned high-quality services nationwide based on this sales, distribution, and security system.



Top Japanese business base*

Iwatani's LPG brand **Marui** gas is used by more than 3.3 million households across Japan. Of these, 1.09 million households are direct sales customers. Iwatani boasts the highest share in the domestic retail and wholesale sectors.

* As of June 30, 2022 (Iwatani data)

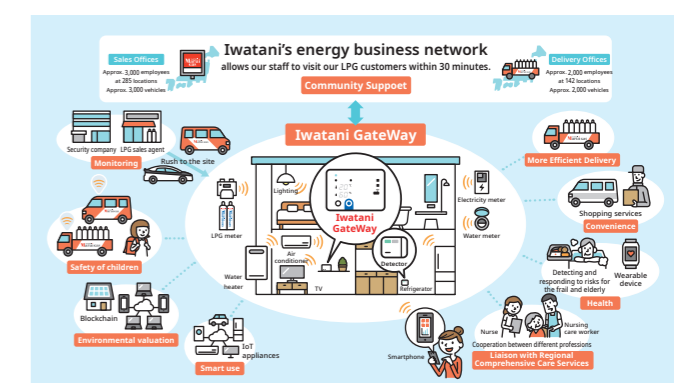
Providing a total service

Iwatani delivers LPG in various forms, including cylinders, bulk, and tank trailers, and offers a one-stop service encompassing aspects from installation to maintenance of LPG supply facilities and consumer equipment that use LPG. Iwatani also operates a staffed monitoring center 24 hours a day, 365 days a year, to provide gas safety monitoring services such as responding to gas leaks.

Iwatani GateWay IoT Platform

Next generation services led by Iwatani GateWay

In July 2021, Iwatani launched the Iwatani GateWay IoT platform service. This adds information network functions to household gas alarms and connects various "things" to the Internet. Iwatani GateWay allows Iwatani to provide new services to resolve regional issues by combining Iwatani's nationwide LPG business base with digital technology. In addition to providing gas monitoring services, it offers child monitoring and shopping services, and Iwatani is also working on new initiatives such as services to evaluate CO₂ reductions embedded within the home and detecting frailty risk factors in customers before they are at a stage requiring nursing care.



LNG (Liquefied Natural Gas)

Iwatani works in partnership with electric power and city gas companies across Japan to supply LNG nationwide. LNG sales total approximately 300,000 tons per year, among the largest sales volumes in Japan. Iwatani operates tank trailers in each region to provide backup from other areas in the event of an emergency or disaster.



LNG Regional Pipeline Business (City Gas Business)

Iwatani is involved in an LNG regional pipeline business that utilizes the potential of LNG in the form of regional energy infrastructure. Iwatani group company Koga Energy Co., Ltd. mixes LNG and LPG transported from the Sakai LNG Center of Kansai Electric Power Co., Inc. to produce city gas and supplies this to residential and industrial customers.



LPG-Powered Emergency Generators

LPG-powered emergency generators generate electricity using LPG, a distributed energy source that is resilient in the event of disasters, and these automatically supply electricity if a power outage occurs. As a fuel that is not susceptible to degradation and can be stored for extended periods, LPG is being introduced as a measure to cope with power outages in places such as public facilities, welfare facilities, hospitals, schools, and factories.



Cassette Gas Products

Launched in 1969, the Cassette-Feu portable gas cooking stove has grown to become a long-selling product that has expanded from home use to leisure use. It is also sold overseas, mainly in the US, China, and Taiwan. To further expand the product's potential, Iwatani offers a lineup of barbecue grills, takoyaki cookers, robatayaki cookers, and mini-maru hot plates with an unobtrusive color scheme. Iwatani has developed a varied range of cassette gas-based products to meet changing lifestyles and needs and to support home dining needs.



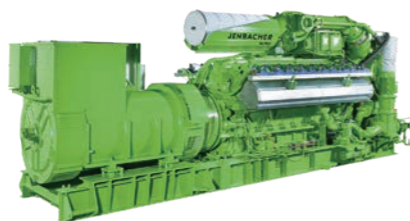
GHPs (Gas Heat Pumps)

GHPs are air conditioning units that use a gas engine to drive the exterior compressor and heat or cool using a heat pump. Power consumption is approximately 10% of EHPs, making them ideal for reducing electricity demand. GHPs with an autonomous power supply can operate on battery power in the event of a power outage for uninterrupted use of air conditioning and lighting.



Cogeneration

This produces multiple forms of energy from a single energy source. Gas cogeneration uses LPG, LNG, or other fuel to power engines and turbines to generate electricity, while at the same time recovering the waste heat generated to produce hot water and steam. This technology is suitable for response to power outages and power shortages.



ENE-FARM

This household fuel cell system generates electricity using a chemical reaction between hydrogen extracted from LPG or city gas and oxygen in the air. The heat produced when generating electricity can also be used to heat water, thus this technology offers high energy efficiency and achieves significant reductions in CO2 emissions. Hot water storage tanks can also be used as a source of domestic water if the water supply is cut off.



FORE WINDS

Launched in 1995, Iwatani's outdoor leisure brand FORE WINDS was renewed and relaunched as a global brand in Japan and overseas. The range includes outdoor gear with refined functional beauty that adds functional and high-quality design to the original concept of fusion with nature.



MILLSER

Launched in 1988 and one of Iwatani's long-selling products, the MILLSER home cooking appliance processes dried foods into powder. The product is used in a variety of applications, including grinding dried fish and vegetables that are difficult to eat as they are, as well as for preparing baby food, pastes, soups, and juices.



ALALA Household Detergent

ALALA is a household detergent range containing cleaning ingredients derived from natural palm oil, making it kind to both humans and the environment. Gentle on the skin, this natural brand has expanded into a lineup that includes hand soap, dishwashing detergent, body soap, and medicated bathing liquid.



Delivery Station

This LPG-powered meal preparation system allows tasty meals to be safely prepared in all kinds of scenarios, based on the "easy full-scale cooking anywhere with a single unit" concept. Capable of cooking rice and soup simultaneously for approximately 100 people, it is an ideal solution in the event of disasters, as well as at events and outdoor leisure activities.



Electric Power Business

Following the complete deregulation of the electricity retail market in April 2016, Iwatani entered the household electricity retail market under the Iwatani Denki brand. Iwatani targets MaruiGas customers, primarily in the Tokyo metropolitan and Kanto areas, offering attractive plans such as discounts in conjunction with LPG.

City Gas Business

Following the complete deregulation of the city gas retail market in April 2017, customers are now free to choose their city gas supplier. Iwatani draws on its nationwide LPG network and gas appliance safety expertise cultivated over the years, and works in partnership with major electric power companies to carry out safety inspections, repairs, and sales of gas appliances.

Tele-Safe 24-Hour Monitoring System

The Iwatani Call Center provides staffed monitoring 24 hours a day, 365 days a year for gas leaks and use of gas appliances for extended periods in the home. When an emergency situation is detected, the system notifies the MaruiGas distributor and contacts the customer to prevent accidents occurring in the home.

MIHARI Gas Leak Alarm

Iwatani's original MIHARI brand gas leak alarm has been installed in numerous homes to monitor gas safety in the more than 50 years since its launch in 1969. Iwatani offers optimal gas alarm solutions to customers to suit individual gas types, detection methods, and installation locations.

Natural Mineral Water from Mt. Fuji Home Delivery

Natural Mineral Water from Mt. Fuji, natural spring water collected from the rich natural areas at the northern foot of Mt. Fuji, contains higher concentrations of vanadium. Stringent quality control at our state-of-the-art manufacturing plant and single-use D-pack containers that prevent exposure to air enable Iwatani to deliver delicious natural spring water with assured safety. The product has a shelf life of two years, making it ideal for use as water stockpiles in case of a disaster.



Health Foods

Iwatani offers superlative food ingredients to help ensure healthy lives, including Suporiki and Goma Tofu no Moto, which use ultra-low temperature freezing technology using liquid nitrogen to retain the goodness of their ingredients, Manuka Honey from Australia, Jabara citrus from Wakayama, black vinegar, and green vegetable juice.



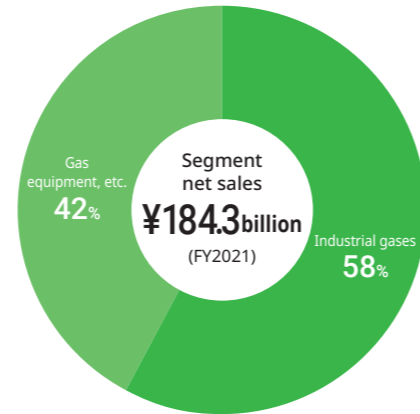
Iwatani Outdoor Shop BASE

Iwatani's first directly managed store opened in Honmachi, Osaka, in October 2021. This is the only store in Japan that offers all of our portable gas cooking stoves and a full lineup of our group's B-to-C products. The store is also used as a place for interaction with consumers through various events and initiatives.



Industrial Gases & Machinery Business

Iwatani is developing its industrial gas business, comprising air separation gases (oxygen, nitrogen, argon), carbon dioxide, helium, hydrogen, semiconductor material gases, and medical gases together with its machinery business comprising gas production and supply facilities, welding robots, FA systems, welding equipment, electronic component manufacturing equipment, and environmental equipment. Iwatani offers optimal solutions to our customers based on an extensive lineup of gases and machinery.



Iwatani Industrial Gases Corporation Kofu Plant (Kofu, Yamanashi)

Helium

No. 1 helium supplier in Japan*1 with reliable procurement capabilities

Helium is a rare natural resource vital to advanced technology and medical care applications due to its extremely low boiling point of -269°C and its inertness, even at high temperatures. Iwatani has established a stable supply system for helium procured from Qatar and the US, for which we have direct import rights. In addition to our two bases in Japan, the Tokyo Helium Center and the Osaka Helium Center, Iwatani is expanding bases in China and Southeast Asia to ensure a stable and efficient supply of helium, for which demand continues to be strong.

* Source: 2022 Gas Georama in Japan



Initiatives for New Gases, New Fields, and New Markets

The quest for new gas development

Iwatani's outlook on new gas development is to achieve the impossible by fully grasping customer issues based on the motto "If it is necessary, find it; if it does not exist, make it." In the field of high-concentration ozone, Iwatani successfully established technology for producing and storing ozone water with a high-concentration of over 50%, something that was previously considered impossible, and has applied this to fields such as semiconductor manufacturing. Non-plasma cleaning using ClF₃ (chlorine trifluoride), which has become the standard cleaning gas used in semiconductor manufacturing, is another technology developed independently by Iwatani.

Initiatives in the field of regenerative medicine

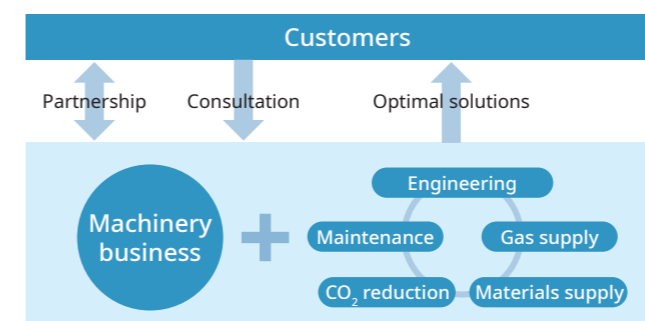
Iwatani has made full-scale entry into the field of regenerative medicine by drawing on its strengths in industrial, medical, and food related gas handling technology. Life Science Research Laboratory has been established within the Iwatani R&D Center. We are working to build a cold chain for the storage and transportation of cells through joint research with universities and business partnerships with venture companies.



Providing Optimal Solutions with Gas and Robots

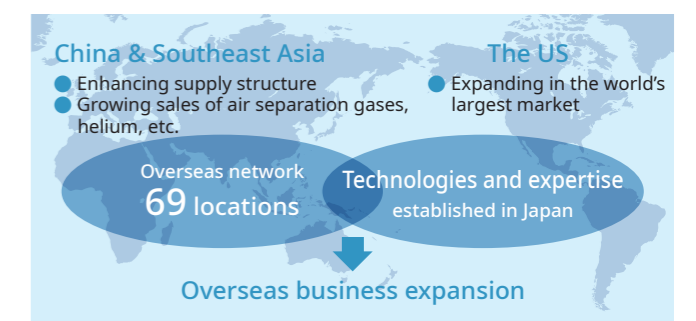
Expanding business from the machinery business

Iwatani's machinery business offers an extensive lineup not just of equipment related to industrial gases, but also semiconductor manufacturing equipment and robots. Iwatani expands business that other companies cannot offer by providing optimal solutions for aspects such as gas supply, maintenance, and material supply in conjunction with machinery and equipment in response to customer production process needs.



Global expansion

Iwatani is expanding its business not just in Japan but overseas, drawing on the technologies, expertise, and overseas network it has established over the years. Iwatani is expanding its manufacturing capabilities through gas manufacturing plants primarily in China, Southeast Asia, and the US, as well as working to strengthen its sales organization in the field of machinery, including machinery for FA systems.



Air Separation Gases

Oxygen, nitrogen, and argon are widely used in various fields, including semiconductor manufacturing and medicine. They are extracted from liquefied air by leveraging the difference between their respective boiling points. To date, Iwatani has established a stable supply system by expanding its gas production and supply system nationwide. Iwatani also provides a range of application technologies that draw on the properties of these gases.



On-Site Supply

An on-site supply system is a gas plant installed directly on customer premises to produce and supply gas. Installing facilities within the plant tailored to meet customer requirements and usage conditions makes it possible to build more efficient production systems.



Cryogenic Equipment

Iwatani is currently expanding manufacturing and sales operations for cryogenic equipment, including cryogenic liquefied gas storage tanks and tank trailers. Drawing on cryogenic technologies accumulated as a manufacturer of liquid hydrogen and other ultra-low-temperature gases, Iwatani provides customers with optimal supply facilities and transportation and storage methods.



Welding and Cutting Technologies

Iwatani offers a wide range of high-quality welding solutions, including arc welding, laser welding, resistance welding, and plasma welding. A wide range of shielding gases, welding machines, and welding wire are available at the Iwatani R&D Center Welding Demonstration Room. Iwatani is ideally positioned to offer a comprehensive array of welding solutions.



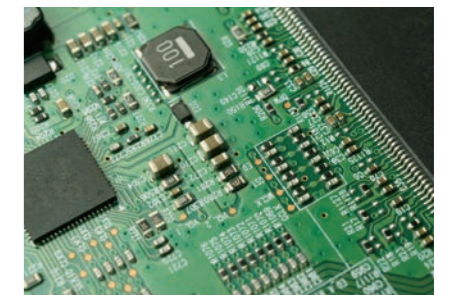
Robot Systems

Iwatani provides robot systems tailored to a wide range of manufacturing processes, as well as ancillary equipment such as hand tools and peripherals. In the ever-expanding industrial robot market, Iwatani draws on its unique expertise to help customers streamline and improve efficiency at their manufacturing sites.



Electronic Component Manufacturing Equipment

Iwatani offers a lineup of equipment suited to virtually all manufacturing processes, from upstream to downstream. For example, for ceramic chip components, a wide range of equipment is available to handle tasks from green sheet manufacture to final product inspections. Iwatani offers optimal equipment solutions for digital product manufacturing facilities worldwide.



Carbon Dioxide Gas and Dry Ice

Iwatani liquefies, refines, and sells high purity carbon dioxide produced as a byproduct at chemical plants, such as those involved in oil refining and ammonia production. Carbon dioxide gas has many applications, including welding, beverages, and, in recent years, promoting photosynthesis in plants. Dry ice is used for food cooling, refrigerated transportation, blast cleaning, for COVID-19 vaccine transportation, and other such applications. The declining production of petrochemical products in recent years has made it increasingly difficult to secure the raw materials needed to generate liquefied carbon dioxide, particularly in the summer, when demand rises. In 2021, Iwatani doubled the capacity of liquefied carbon dioxide production facilities at Chiba Plant of Iwatani Industrial Gases Corporation, in order to reinforce its stable supply system for this gas.



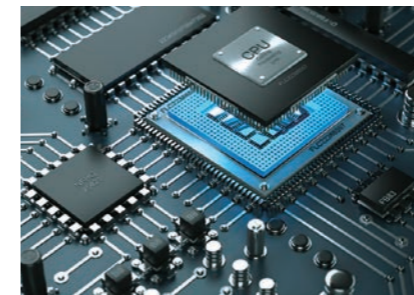
Deuterium Gas

Composed of a stable isotope of hydrogen, deuterium gas is used across a wide range of industries, including semiconductors and other electronics, optical fibers, and chemicals. To ensure a stable supply of this gas, Iwatani became Japan's first company to produce deuterium commercially, and subsequently established a new mass production site in 2021. Iwatani's quality control system meets the rigorous requirements of the semiconductor industry.



Semiconductor and Automation Equipment

In addition to semiconductor manufacturing equipment and materials, Iwatani offers total systems solutions to help automate and optimize entire plants. Drawing on its extensive information-handling capabilities and expertise established over the years, Iwatani develops total systems and services in response to technological innovations in the fields of semiconductors and electronic components.



Environmental Equipment

Over the years, Iwatani has provided a wide range of equipment for managing atmospheric pollution, water purification, waste treatment, and environmental conservation needs. Iwatani offers total service solutions for a carbon-free society, centering on the latest exhaust gas treatment, wastewater treatment, and recycling related equipment—solutions that help conserve energy and reduce greenhouse gas emissions.



Pharmaceuticals Manufacturing Equipment

Iwatani provides machinery, materials, engineering, and services necessary for manufacturing and packaging pharmaceuticals and cosmetics not only in Japan, but also in Indonesia, Vietnam, and other Asian countries. Iwatani is customer-focused and provides high-quality, state-of-the-art products and services to improve the manufacturing process.



Integrated Plant Disaster Prevention System

In its role as a gas safety expert, Iwatani operates an integrated plant disaster prevention system that monitors safety of respective areas of a plant. Iwatani provides systems that make effective use of its crisis management expertise, ranging from multifaceted sensor-based safety monitoring, extinguishing/preventing chemical and combustible gas fires, to counter-terrorism systems.



Developing and Proposing Eco-Friendly Products

Iwatani develops and provides eco-friendly products that draw on the potential of gases in various ways. Examples include ECO FREEZE natural refrigerant, a replacement for fluorocarbon gas; a new HFO-1234yf refrigerant for automotive air conditioners; and beaded dry ice, made by processing dry ice into beads approximately 6mm in diameter to increase cooling efficiency. Iwatani also provides Hydrocut®, a hydrogen gas based mixed gas that dramatically reduces CO2 emissions compared to conventional LPG and acetylene. Hydrocut® also reduces the risk of flashback and improves workability due to its low radiant heat, characteristics that have drawn praise. Iwatani has developed a Hydrocut Trailer for customers who use large volumes of this product.



Powder Molding Equipment

Iwatani Group company KOHTAKI PRECISION MACHINE Co., Ltd. responds to a wide range of powder molding needs based on years of experience and a broad range of expertise and technologies. The products offered include a range of pressing machines, including powder molding presses, sizing presses, multilayer molding presses, large-scale hot presses for molding seismic isolation rubber, and vacuum hot presses.

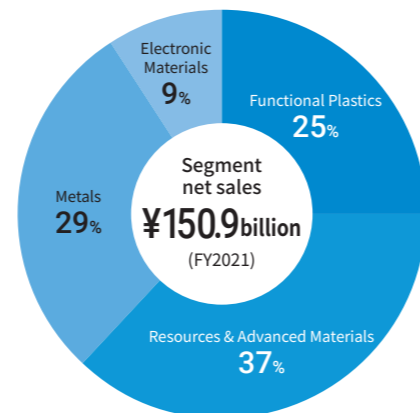


Machinery Business Technological Development

Shield Master® Series, the No.1 mixed welding gas brand, was developed to meet the requirements of various applications and base materials. With a wide lineup, we have improved welding quality and reduced costs by improving efficiency. We also design tailored mixing ratios and on-site mixing to meet customer challenges. Iwatani is currently working on the development of devices such as hydrogen cutting equipment and a mixed-combustion type hydrogen burner to permit the easy adjustment of hydrogen mixture combustion ratios. Iwatani combines gas and machinery technologies developed over many years to create solutions that meet the diverse needs of its customers.



Materials Business



A pioneer in developing mineral resources (including mineral sands) and related applications, Iwatani is active in procuring and developing raw materials essential in the development of functional resins, high-performance metals, and other applications in the environmental, electronics, and automotive industries. Iwatani is also helping to achieve carbon neutrality by offering eco-friendly products and biomass fuels that move us closer to a recycling-based society.



Mineral Sands (Zircon, Titanium Ore)

For many years, Iwatani has claimed Japan's leading share* of sales of zircon, a mineral used as an abrasive in the semiconductor, ceramics, and refractories industries, as well as for titanium ore, which is used in applications related to pigments, titanium metal, and welding materials. In addition to trading mineral sands imported from South Africa and Canada through a leading global supplier, Iwatani operates its own mines in Western Australia. To ensure multiple sources and stable procurement, Iwatani has also invested in a new titanium ore project in Norway.

*As of March 31, 2022 (Iwatani data)



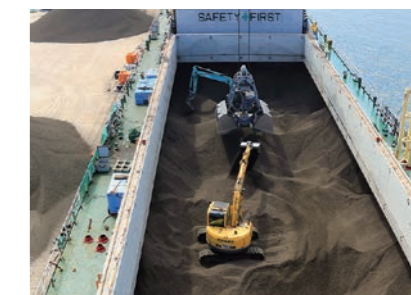
Ceramic Raw Materials And Molded Products

Iwatani supplies zirconium compounds, Rare Earth metals, and other ceramic raw materials for customers active primarily in fields related to catalysts and electronics. It also sells molded products made from ceramic raw materials. Iwatani is active in developing new nano-scale materials, a field where growth is anticipated.



PKS (Palm Kernel Shells)

From Indonesia and Malaysia, Iwatani imports PKS, a wood-based biomass fuel attracting interest as a coal alternative, to supply biomass power plants in Japan. Stringent quality controls assure high-quality PKS, with the Iwatani R&D Center analyzing products for calorific and moisture values and other factors.



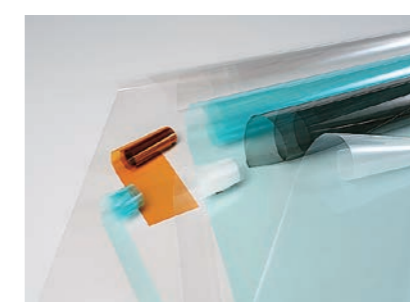
Bioplastics

Iwatani plays an active role in the bio-PP, bio-PE, and bio-PS resin markets, including the market for bio-PET resin, which is used as a material for plastic bottles. For bio-PP in particular, Iwatani is strengthening its position as the world's only supplier to offer segregation grade products. Iwatani is also focusing its efforts on highly recyclable PET resin (aluminum catalyst based PET resin).



Synthetic Resin Materials and Functional Plastic Products

Drawing on a network spanning China and Southeast Asia, Iwatani is expanding the business of synthetic resin raw materials and resin products both in Japan and overseas. Iwatani is actively pursuing the development of various products, including bio-PET resin derived from plants and functional films based on an understanding of rising consciousness of the global environment and changing market needs.



Stainless Steel, Aluminum, and High Alloy Steels

Within Japan, Iwatani has established a nationwide processing, warehouse, and distribution network centered on the Iwatani Stainless Steel Association and systems offering mobility to meet specific customer requirements. Overseas, Iwatani is focusing its attention on sales to growth markets, including markets for smartphones and automotive components.



Processed Metal Components

Iwatani has established manufacturing plants in China and Southeast Asia to expand its standing as a manufacturer and is developing, proposing, and supplying processed metal components to customers active across a wide range of fields, including the growing automotive, air conditioning, and electronic component industries.



Electronics and Display Business

Iwatani's functional films and electronic materials are widely used in smartphone displays and components. Iwatani is developing new materials for the vehicle display market, which is expected to grow.



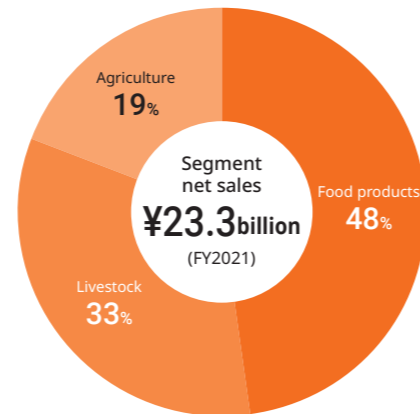
Battery Material Business

Rechargeable batteries are drawing growing attention for use in next generation vehicles. Iwatani procures and sells lithium, cobalt, manganese, and other raw materials obtained overseas for use as cathode materials. Iwatani also develops various other unique products, including stress relief pads positioned between battery cells, fire extinguishing sheets, bus bar components, and processed metal components.



Agri-Bio & Foods Business

Iwatani is a safe and reliable source for a wide range of frozen foods, including vegetables, seafood, and meat products from around the world. Additionally, Iwatani contributes to food production as a source of the latest agricultural equipment/materials and livestock facilities/machinery, as well as for pig breeding stocks.



Frozen Foods for Commercial and General Consumer Markets

Iwatani's food products make life more flavorful. Iwatani delivers carefully selected, safe and reliable ingredients, as well as outstanding seasonal foodstuffs from Japan and around the world. Starting with sales of frozen pre-cut vegetables, this business has now expanded to offer an extensive lineup of products, including frozen Japanese side dishes, frozen seafood, frozen meat products, and even bread and dessert based frozen foods, primarily targeting commercial customers. Iwatani is currently expanding its business in the general consumer frozen foods market, which is growing against a backdrop of changing social structure and personal values, through the development and sales of low-volume retail-packaged frozen pre-cut vegetables and frozen side dishes.



Logistics

In addition to sales of commercial-use frozen foods for restaurants, a business cultivated over the years, the Iwatani Group sells and delivers refrigerated foods for commercial use and to supermarkets to meet the demand for pre-prepared and home-prepared meals.



Quality Assurance

Iwatani strives to maintain and manage quality and reliability through a quality assurance system managed by an independent Quality Assurance Management Department, under which a section in charge oversees food products in accordance with Iwatani quality policies, based on its mission to safeguard food safety and security through a reliable quality assurance system.



Pig Breeding

Iwatani sells Camborough pigs bred and raised at the Tashiro and Tohoku farms operated by Iwatani Camborough Co., Ltd. to pig producers across Japan. These pigs combine high fertility with profitability, and produce pork that is popular with consumers.



Agricultural Equipment

Iwatani makes possible clean, high-productivity working environments, and provides agricultural greenhouses ideal for growing vegetables and seedlings via cultivation systems tailored to specific cultivars, control of carbon dioxide concentrations required for optimal photosynthesis, and temperature control using LPG and heat pumps.



Piggery Facilities and Livestock Equipment

Iwatani supplies state-of-the-art piggery facilities and livestock equipment to maximize the genetic potential of Camborough pigs. Additionally, Iwatani offers farm management guidance by veterinarians and other staff to help produce low-cost, high-quality pork.



ALFLOC Trolleys

To eliminate the frequent reshipment entailed by the distribution of flowering plants, Iwatani introduced a new ALFLOC intermodal transportation concept, which relies on dedicated plant logistics trolleys to supply plants rapidly from production areas to markets, free of damage. Iwatani is working to standardize flowering plant logistics based on some 25,000 ALFLOC trolleys currently operating around the country.



Iwatani R&D Center

The Iwatani R&D Center was founded by Iwatani, which has developed diverse businesses centered on gas and energy, to create elemental technologies for tomorrow in partnership with its customers. Iwatani provides state-of-the-art analytical equipment and testing environments, and integrates both its information capabilities for identifying the needs of society with its unique technical capabilities, which have been cultivated over the years based on its advanced gas technologies. Iwatani creates new technologies and products in joint efforts with its customers and partner companies, as well as universities, public institutions, and government agencies.



Welding

Iwatani operates Welding Demonstration Room featuring wire products made of mild steel, stainless steel, aluminum, and other materials from manufacturers in Japan and overseas, as well as state-of-the-art welding machines and robots. Iwatani provides optimal welding solutions by identifying the perfect combination of welding machines, welding wire, and shielding gases to meet the wide-ranging needs of its customers.



Semiconductor and Electronic Components

In addition to its proprietary product CIF3 (chlorine trifluoride), which is used around the world as a cleaning gas in semiconductor manufacturing, Iwatani is contributing to the manufacture of semiconductors and electronic components with its unique gas technologies, including high concentration ozone manufacturing and storage, deuterium gas manufacturing, and metal nanoparticle manufacturing.



Analysis and Quality Evaluation

The center offers a multifunctional, multipurpose experimental environment equipped with large laboratories, environmental testing rooms, and cleanrooms, as well as precision analytical instruments for various fields from nanoscale material analysis to ultraprecise gas analysis. Its cutting-edge analytical and experimental environments help create new technologies for the next generation.



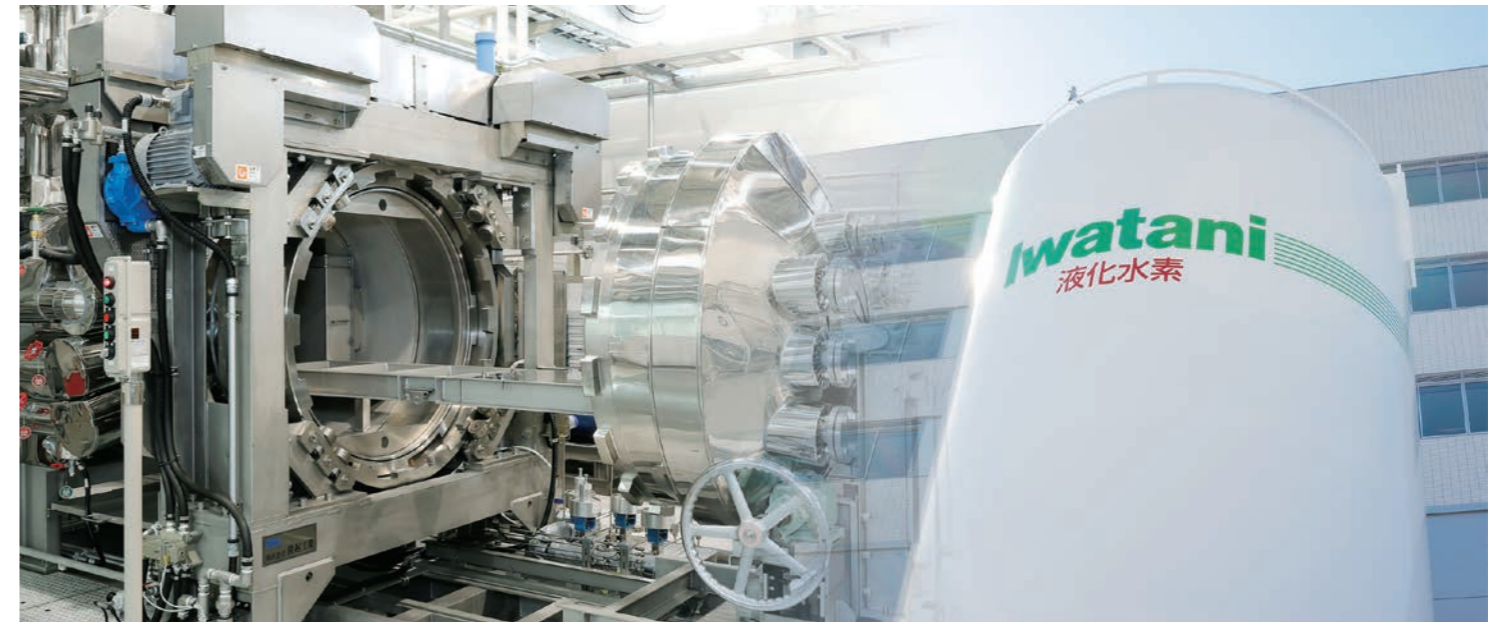
Regenerative Medicine

Iwatani is working to expand the use of cell storage and transportation systems based on the fundamental analytical and cryogenic management technologies cultivated over the years. In April 2020, in partnership with Osaka University, Iwatani founded the Joint Research Laboratory for Cell Storage and Transport Technology. In February 2022, a cleanroom was installed at the Iwatani R&D Center to reproduce and evaluate the series of processes performed at cell manufacturing plants—from cell culture, freezing, storage, to transportation. Iwatani is currently developing technologies and equipment for cell storage and transportation, with the ultimate goal of commercializing regenerative medicine technologies.



Iwatani Advanced Hydrogen Technology Center

In October 2021, to realize its goal of building a hydrogen energy-based society, Iwatani founded the Iwatani Advanced Hydrogen Technology Center. The center will accelerate the development of new and proprietary technologies related to decarbonization, including the manufacture of green hydrogen and green LPG, as well as the hydrogen-related technologies Iwatani have developed to date. In addition to conducting technological development and commercialization feasibility testing related to hydrogen applications in Japan and overseas, Iwatani is also involved in the development of manufacturing technologies for a wide range of fuels to achieve a decarbonized society, including biogas technology and research into synthesizing hydrocarbons.



Liquid Hydrogen and Ultra-High-Pressure Hydrogen Technologies

Iwatani carries out studies aimed at reducing construction costs of hydrogen-refueling stations, enhancing their safety, and promoting revisions to related regulations through evaluating hydrogen compatibility with metal materials and equipment durability using its facilities for liquid hydrogen testing and ultra-high-pressure hydrogen gas testing, rated as top-level facilities in Japan. Iwatani is also focusing its efforts into the development of equipment and new technologies for the coming era of mass hydrogen supply.



Hydrogen-Refueling Station Inspection Technology

Iwatani has established a simple and low-cost inspection method ("master meter method") for inspecting measuring equipment at hydrogen-refueling stations using a standard flowmeter. Iwatani has also developed hydrogen gas sampling systems and simple hydrogen gas purity analyzers as ways to measure impurities contained in hydrogen gas. Iwatani is developing technology to simplify inspections for hydrogen-refueling stations.



Decarbonization Technologies

Iwatani is aiming to establish hydrogen manufacturing technologies based on waste plastics and woody and various other biomass, including green hydrogen manufacturing technologies based on renewable energy. In addition to hydrogen energy, we are developing manufacturing technologies for a wide range of clean energy sources, including the manufacturing of green hydrogen and LPG from livestock waste from our pig breeding business.



Raising Awareness of Hydrogen

To raise awareness of hydrogen energy as the source of clean energy for the next generation, the Iwatani Advanced Hydrogen Technology Center has been holding Hydrogen Energy Classes. Here, children can experience the appeals of hydrogen energy using handmade experiment kits for water electrolysis experiment, model cars powered by fuel-cells, and rocket launch experiment.



Sustainability

Under our slogan "Creation of a more comfortable space on the Earth is what Iwatani wishes and strives for," Iwatani strives to achieve solutions to the social challenge of environmental issues and to realize the Sustainable Development Goals (SDGs) by realizing a CO₂-free society based on hydrogen.



Iwatani Code of Corporate Ethics

1. We will create new values sought by our customers, thereby contributing to society.
2. We respect compliance with the related laws and ordinances and their spirit, and fulfill our social responsibility through fair and free competition.
3. We will proactively disclose our corporate information and have a dialogue with society in order to obtain wide support and mutual understanding from society.
4. We will respect diverse values and create an environment where abilities can be fully demonstrated irrespective of the race, nationality, gender, and age to flexibly respond to changes in business environment.
5. We will conduct corporate activities aimed at realization of a decarbonized society and coexisting with the environment in accordance with the idea embodied in the phrase "Creation of a more comfortable space on the Earth is what Iwatani wishes and strives for."
6. We will conduct corporate management from an international perspective.

Environmental Initiatives

Environmental Management

Iwatani is building, maintaining, and operating an environmental management system under the Iwatani Group Environmental Charter and the Iwatani Environmental Policy.

Transition to a Hydrogen Energy-Based Society

Climate Change / Conservation of Resources
Conservation of Biodiversity and Ecosystem
Green Procurement and Quality Assurance
Environmental Data

Social Initiatives

Social Contribution Activities

Through its support for cultural activities, research and development, international exchange, and technological aid, Iwatani contributes to society.

Human Rights / Occupational Health and Safety / Human Resources Development Diversity & Inclusion

Enhanced Workplace Environment / Personnel Data
Building Energy Infrastructure to Support Local Communities
Response to Natural Disaster / Consumer Protection

Governance Initiatives

Corporate Governance

Based on the corporate philosophy, Iwatani strives to reinforce corporate governance by enhancing the soundness, transparency, and efficiency of management.

Risk Management and Compliance

[View here for further details on sustainability.](#)



Sponsorship of the NHK Symphony Orchestra

Iwatani has been assisting the NHK Symphony Orchestra with its regional and overseas performances, primarily the NHK Symphony Orchestra summer concerts, as a special sponsor since 1987, endorsing its aim: "To augment Japan's music and artistic standards through symphonic music performances and to achieve its social and cultural mission." Iwatani helps increase the interaction between local communities and culture through music.



Iwatani Athletics Club

In 2021, under the guidance of coach Hisakazu Hirose and Mizuki Noguchi, the Iwatani Athletic Club placed 12th out of 31 teams in the Princess Ekiden, qualifying to participate in the All Japan Industrial Teams Women's Ekiden (Queen's Ekiden) for the first time. Based on its cornerstone interests in contributing to society and communities through athletic activities and the training of some of Japan's leading athletes, the Club is working hard to achieve its goal of first place in the Queen's Ekiden.



Comfortable Earth - All Japan Elementary School Essay Contest

The "Comfortable Earth" All Japan Elementary School Essay Contest was started in 2010 as a project to commemorate the 80th anniversary of Iwatani's foundation, and it forms an initiative to prompt the children who will bear the responsibility of the Earth's future to think about Iwatani's wish, depicted in its slogan, "Creation of a more comfortable space on the Earth is what Iwatani wishes and strives for." Iwatani will carry the words written by children filled with awareness and discovery into the future.



Toward Achieving a Hydrogen Energy-Based Society

Iwatani is expanding its hydrogen production and supply infrastructure, including Hydro Edge, to promote the spread of hydrogen-based energy. At the same time, Iwatani is also driving the future of a hydrogen energy-based society through multifaceted initiatives such as the provision of hydrogen-refueling stations, studying ways to procure large quantities of low-cost CO₂-free hydrogen, and awareness-raising activities through events.



Sponsorships of the Japan International Birdman Rally

Since 2010, as a program to commemorate our 80th anniversary, we have sponsored the Japan International Birdman Rally. This support reflects our belief that the concept underlying this contest (to see which human-powered aircraft can fly the farthest) coincides with our ambitions to realize a clean energy society. Iwatani is also actively involved in supporting various initiatives and events whose goal is to reduce environmental impact.



The Iwatani Naoji Foundation

The Iwatani Naoji Foundation was established in 1973 by founder Naoji Iwatani, who sought to encourage the development of science and technology and to improve lives of the public. The foundation promotes social contribution activities, with a focus on support for research, as well as awards, in the energy and environmental fields, and support for international students from Asia. Through grants for science and technology research and scholarships for international students, including the Iwatani Naoji Commemorative Award, the foundation contributes to people and to society.



Marui Gas Disaster Relief Corps

Established jointly with some 1,400 MaruiGas distributors to ensure rapid LPG recovery in response to disasters, the MaruiGas Disaster Relief Corps is Japan's only nationwide disaster prevention organization founded by a private sector energy company. Since its establishment in 1995, the MaruiGas Disaster Relief Corps has been deployed 31 times. Currently, some 3,600 qualified gas technicians from different companies are members of the MaruiGas Disaster Relief Corps. The organization strives to maintain and strengthen its capacity to respond to disasters through annual nationwide drills conducted simultaneously.



Saudi Aramco-Iwatani Emergency LP Gas Relief Program

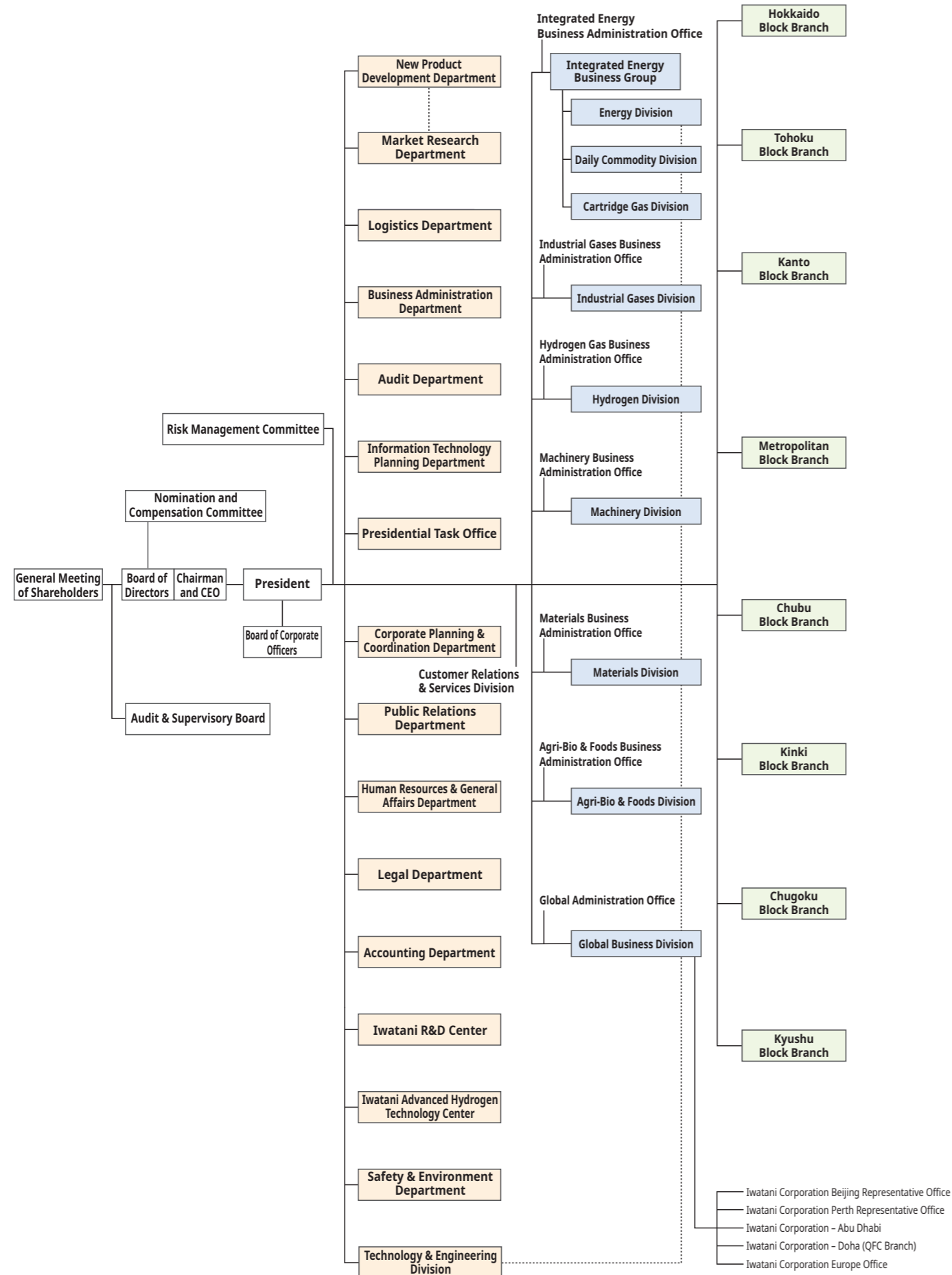
In 2009, Iwatani and Saudi Arabia's state-run oil company Saudi Aramco established the Saudi Aramco-Iwatani Emergency LP Gas Relief Program, which provides free portable gas stoves and cassette gas canisters to locations affected by major natural disasters as emergency relief supplies. This fund provided relief in response to typhoons in August 2021, when Iwatani delivered portable gas stoves, cassette gas canisters, and Natural Mineral Water from Mt. Fuji.



Improving and Promoting Welding Skills in Asia

Iwatani has helped organize welding technology seminars and welding competitions in Dalian, China, for 10 years, starting in 1997, with the goal of strengthening welding skills in rapidly growing Asian countries. Iwatani has been actively involved in this program, organizing welding seminars and contests held in Hanoi, Vietnam, in 2007, and in Jakarta, Indonesia, from 2013.

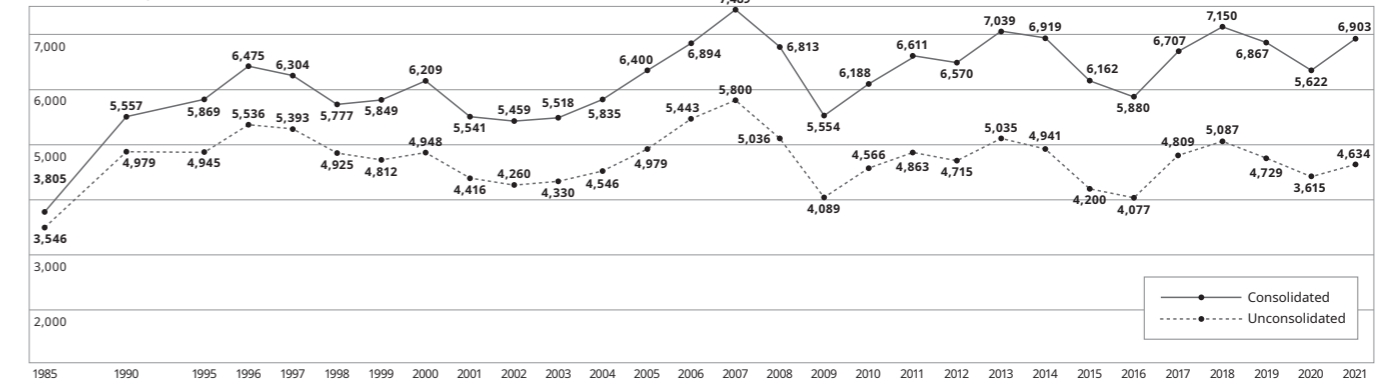




- **Trade Name:** Iwatani Corporation
- **Established:** May 5, 1930
- **Incorporated:** February 2, 1945
- **Representatives:** Chairman and CEO Akiji Makino
Vice Chairman Toshio Watanabe
President Hiroshi Majima
- **Paid-in Capital:** 35,096 million yen
- **Net Sales:** 690.392 billion yen (FY2021 consolidated results)
- **Number of Employees:** 1,319 (as of March 31, 2022)
- **Number of Offices:** 50 (Domestic: 45, Overseas: 5)
- **Number of Shareholders:** 35,413 (as of March 31, 2022)
- **Accounting Period:** March 31

Net Sales Trends

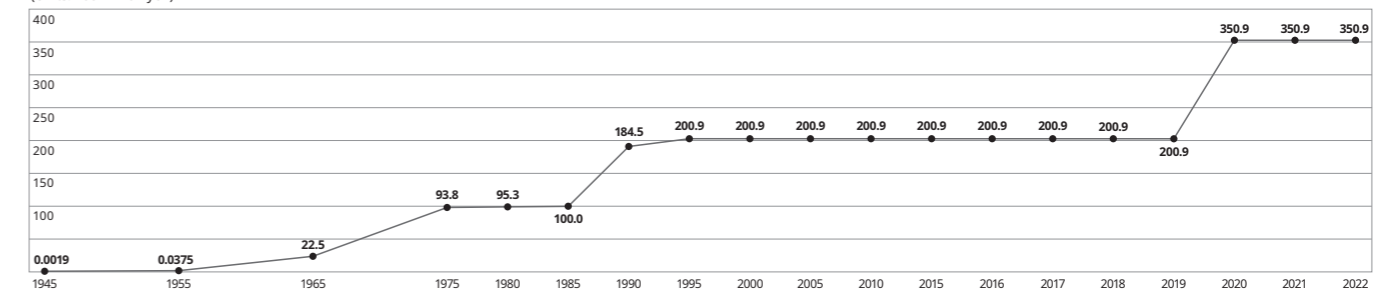
(Units: 100 million yen)



Note: The Accounting Standard for Revenue Recognition (Corporate Accounting Standards No. 29, March 31, 2020) and other accounting standards have been applied since FY2021. Figures for FY2020 have been recalculated via the retroactive application of these accounting standards.

Capital Trends

(Units: 100 million yen)



Corporate Officers

Members of the Board and Audit & Supervisory Board Members

Chairman and CEO
Vice Chairman
President
Vice President
Senior Managing Officer, Member of the Board
Senior Managing Officer, Member of the Board
Senior Managing Officer, Member of the Board
Senior Managing Officer, Member of the Board
Member of the Board
Member of the Board
Member of the Board
Member of the Board
Audit & Supervisory Board Member
Audit & Supervisory Board Member
Audit & Supervisory Board Member
Audit & Supervisory Board Member

Akiji Makino
Toshio Watanabe
Hiroshi Majima
Makoto Horiguchi
Itaru Okawa
Manabu Tsuyoshi
Hiroshi Fukushima
Hirozumi Hirota
* Shinji Murai
* Shosuke Mori
* Hiroshi Sato
* Hiroyuki Suzuki
Toyofumi Ohama
Naoki Iwatani
** Yoshinori Shinohara
** Yasushi Yokoi

Executive Officers

Senior Managing Officer Takashi Kamekura
Senior Managing Officer Yasuhisa Ueda
Senior Managing Officer Tetsuo Matsuo
Managing Officer Yasushi Sakai
Managing Officer Yasushi Onuki
Managing Officer Kouji Kobayashi
Managing Officer Hiroyuki Yano
Managing Officer Kenji Motoori
Managing Officer Masato Nishimura
Managing Officer Hisayuki Shimizu
Managing Officer Wataru Isshiki
Managing Officer Joseph. S. Cappello
Managing Officer Naotami Miyagaki
Managing Officer Masao Hirashima
Managing Officer Kenji Takayama
Managing Officer Jun Matsubara
Executive Officer Tomohiko Takehana
Executive Officer Atsuhisa Saito
Executive Officer Takeshi Nakada
Executive Officer Hirofumi Uchida
Executive Officer Isamu Yoshida
Executive Officer Kunihiko Koike
Executive Officer Naoki Wada
Executive Officer Kazutaka Yokoya
Executive Officer Yoshikuni Yamada
Executive Officer Katsumi Nakahata

Note: Members of the Board marked with * are Outside Directors. Audit & Supervisory Board Members marked with ** are Outside Audit & Supervisory Board Members.

Domestic Network and Major Domestic Affiliated Companies

As of September 30, 2022

[Head Offices]

Osaka Head Office TEL: 81-6-7637-3131
6-4, Hommachi 3-chome, Chuo-ku, Osaka-shi, Osaka 541-0053, Japan

Tokyo Head Office TEL: 81-3-5405-5711
21-8, Nishi-shimbashi 3-chome, Minato-ku, Tokyo 105-8458, Japan

[Block Branches & Branch Offices]

Hokkaido Block Branch TEL: 81-11-726-1511

Sapporo Branch TEL: 81-11-726-1511
1-2, Kitananajo-nishi 1-chome, Kita-ku, Sapporo-shi, Hokkaido 060-0807, Japan

Hakodate Branch TEL: 81-138-49-3141
6-3, Nanaehama 7-chome, Hokuto-shi, Hokkaido 049-0111, Japan

Doto Branch TEL: 81-154-53-2111
1-10, Hoshigauraminami 1-chome, Kushiro-shi, Hokkaido 084-0913, Japan

Tohoku Block Branch TEL: 81-22-262-2040

Sendai Branch TEL: 81-22-262-2021
1-10, Kakyuin 1-chome, Aoba-ku, Sendai-shi, Miyagi 980-8481, Japan

Kitatohoku Branch TEL: 81-19-623-2861
9-1, Morioka-eki Nishidori 2-chome, Morioka-shi, Iwate 020-0045, Japan

Akita Branch TEL: 81-18-847-1173
322-2, Terauchihirojo, Akita-shi, Akita 011-0906, Japan

Kanto Block Branch TEL: 81-48-646-7020

Kanto Branch TEL: 81-48-646-7020
1071-2, Azasimochiai, Chuo-ku, Saitama-shi, Saitama 338-0002, Japan

Niigata Branch TEL: 81-25-283-6001
11-9, Higashidekijima, Chuo-ku, Niigata-shi, Niigata 950-0961, Japan

Maebashi Branch TEL: 81-27-243-2733
29-1, Minamicho 4-chome, Maebashi-shi, Gunma 371-0805, Japan

Utsunomiya Branch TEL: 81-28-625-1221
1-18, Odori 4-chome, Utsunomiya-shi, Tochigi 320-0811, Japan

Ibaraki Branch TEL: 81-29-823-3691
7-23, Minatomachi 1-chome, Tsuchiura-shi, Ibaraki 300-0034, Japan

Chiba Branch TEL: 81-43-245-8477
21-8, Nobuto 1-chome, Chuo-ku, Chiba-shi, Chiba 260-0032, Japan

Metropolitan Block Branch TEL: 81-45-474-3960

Metropolitan Branch TEL: 81-45-474-3960
9-18, Shinyokohama 3-chome, Kouhoku-ku, Yokohama-shi, Kanagawa 222-0033, Japan

Tokyo Branch TEL: 81-3-3520-8675
8-10, Harumi 1-chome, Chuo-ku, Tokyo 104-6017, Japan

Atsugi Branch TEL: 81-46-222-7678
7-6, Nakacho 2-chome, Atsugi-shi, Kanagawa 243-0018, Japan

Yamanashi Branch TEL: 81-55-268-7611
1824-1, Tsujijirai, Showa-cho, Nakakoma-gun, Yamanashi 409-3853, Japan

Shizuoka Branch TEL: 81-54-348-2000
373, Nanatsushinya, Shimizu-ku, Shizuoka-shi, Shizuoka 424-0066, Japan

Chubu Block Branch TEL: 81-52-308-3651

Nagoya Branch TEL: 81-52-308-3651
23-20, Marunouchi 3-chome, Naka-ku, Nagoya-shi, Aichi 460-0002, Japan

Toyota Branch TEL: 81-565-74-1766
1-1, Maeyamacho 3-chome, Toyota-shi, Aichi 471-0828, Japan

Mie Branch TEL: 81-59-355-5520
1-18, Unomori 1-chome, Yokkaichi-shi, Mie 510-0074, Japan

Hokuriku Branch TEL: 81-76-263-1770
5-2, Honmachi 1-chome, Kanazawa-shi, Ishikawa 920-0853, Japan

Kinki Block Branch TEL: 81-6-7639-0046

Osaka Branch TEL: 81-6-7639-0048
2-33, Miyahara 1-chome, Yodogawa-ku, Osaka-shi, Osaka 532-0003, Japan

Keiji Branch TEL: 81-77-511-3710
3-24, Umebayashi 1-chome, Otsu-shi, Shiga 520-0051, Japan

Kobe Branch TEL: 81-78-672-1201
2-7, Hamasaki-dori, Hyogo-ku, Kobe-shi, Hyogo 652-0807, Japan

Wakayama Branch TEL: 81-73-475-5270
1-19, Kuroda 1-chome, Wakayama-shi, Wakayama 640-8341, Japan

Chugoku Block Branch TEL: 81-82-249-3615

Hiroshima Branch TEL: 81-82-249-3615
2-21, Kanayamacho, Naka-ku, Hiroshima-shi, Hiroshima 730-8541, Japan

Okayama Branch TEL: 81-86-232-3600
7-33, Saiwaicho, Kita-ku, Okayama-shi, Okayama 700-0903, Japan

Yamaguchi Branch TEL: 81-834-31-8151
1-3, Honmachi, Shunan-shi, Yamaguchi 745-0036, Japan

Sanin Branch TEL: 81-852-25-8855
16-37, Gakuen 2-chome, Matsue-shi, Shimane 690-0825, Japan

Kyushu Block Branch TEL: 81-92-411-2220

Fukuoka Branch TEL: 81-92-431-2220
25-21, Hakataekimae 3-chome, Hakata-ku, Fukuoka-shi, Fukuoka 812-8560, Japan

Kitakyushu Branch TEL: 81-93-521-5431
1-1, Kajimachi 2-chome, Kokurakita-ku, Kitakyushu-shi, Fukuoka 802-0004, Japan

Oita Branch TEL: 81-97-534-1040
8-11, Toyomi 1-chome, Oita-shi, Oita 870-0018, Japan

Nagasaki Branch TEL: 81-957-55-2131
745, Oroguchimachi, Omura-shi, Nagasaki 856-0025, Japan

Kumamoto Branch TEL: 81-96-324-8600
8-23, Karashimacho, Chuo-ku, Kumamoto-shi, Kumamoto 860-0804, Japan

Miyazaki Branch TEL: 81-985-27-8321
18-7, Hiroshima 1-chome, Miyazaki-shi, Miyazaki 880-0806, Japan

[Laboratories and Others]

Iwatani R&D Center TEL: 81-6-7632-1177
3-16, Tsugiya 3-chome, Amagasaki-shi, Hyogo 661-0965, Japan

Iwatani Advanced Hydrogen Technology Center TEL: 81-6-7632-1181
3-16, Tsugiya 3-chome, Amagasaki-shi, Hyogo 661-0965, Japan

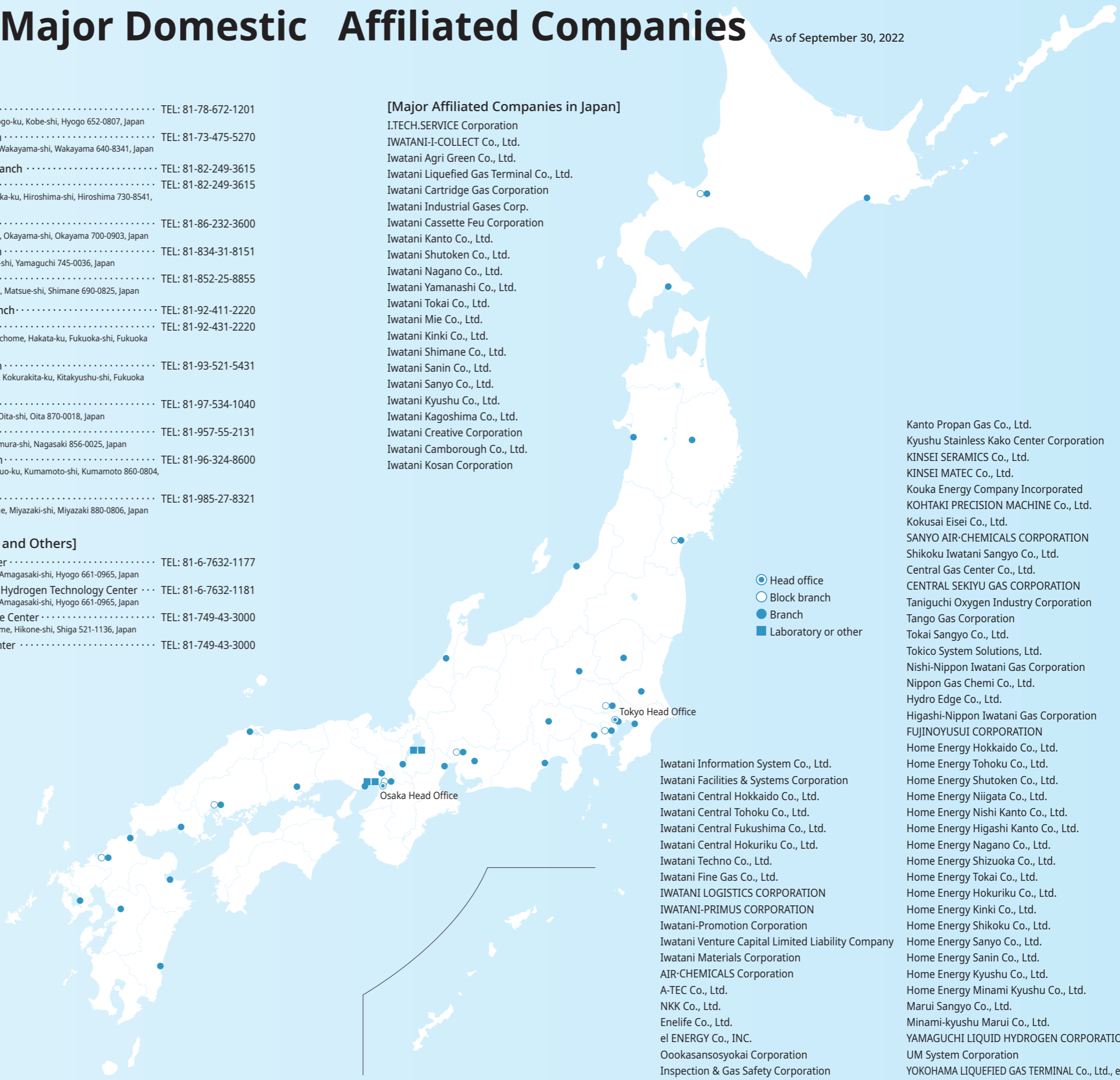
Biwako Conference Center TEL: 81-749-43-3000
1-1, Shinkaihama 2-chome, Hikone-shi, Shiga 521-1136, Japan

Shiga Training Center TEL: 81-749-43-3000

[Major Affiliated Companies in Japan]

I.TECH.SERVICE Corporation
IWATANI-I-COLLECT Co., Ltd.
Iwatani Agri Green Co., Ltd.
Iwatani Liquefied Gas Terminal Co., Ltd.
Iwatani Cartridge Gas Corporation
Iwatani Industrial Gases Corp.
Iwatani Cassette Feu Corporation
Iwatani Kanto Co., Ltd.
Iwatani Shutoken Co., Ltd.
Iwatani Nagano Co., Ltd.
Iwatani Yamanashi Co., Ltd.
Iwatani Tokai Co., Ltd.
Iwatani Mie Co., Ltd.
Iwatani Kinki Co., Ltd.
Iwatani Shimane Co., Ltd.
Iwatani Sanin Co., Ltd.
Iwatani Sanyo Co., Ltd.
Iwatani Kyushu Co., Ltd.
Iwatani Kagoshima Co., Ltd.
Iwatani Creative Corporation
Iwatani Camborough Co., Ltd.
Iwatani Kosan Corporation

Iwatani Information System Co., Ltd.
Iwatani Facilities & Systems Corporation
Iwatani Central Hokkaido Co., Ltd.
Iwatani Central Tohoku Co., Ltd.
Iwatani Central Fukushima Co., Ltd.
Iwatani Central Hokuriku Co., Ltd.
Iwatani Techno Co., Ltd.
Iwatani Fine Gas Co., Ltd.
IWATANI LOGISTICS CORPORATION
IWATANI-PRIMUS CORPORATION
Iwatani-Promotion Corporation
Iwatani Venture Capital Limited Liability Company
Iwatani Materials Corporation
AIR-CHEMICALS Corporation
A-TEC Co., Ltd.
NKK Co., Ltd.
Enelife Co., Ltd.
el ENERGY Co., INC.
Ookasansosyokai Corporation
Inspection & Gas Safety Corporation



● Head office
○ Block branch
● Branch
■ Laboratory or other

Kanto Propan Gas Co., Ltd.
Kyushu Stainless Kako Center Corporation
KINSEI SERAMICS Co., Ltd.
KINSEI MATEC Co., Ltd.
Kouka Energy Company Incorporated
KOHTAKI PRECISION MACHINE Co., Ltd.
Kokusai Eisei Co., Ltd.
SANYO AIR-CHEMICALS CORPORATION
Shikoku Iwatani Sangyo Co., Ltd.
Central Gas Center Co., Ltd.
CENTRAL SEKIYU GAS CORPORATION
Taniguchi Oxygen Industry Corporation
Tango Gas Corporation
Tokai Sangyo Co., Ltd.
Tokico System Solutions, Ltd.
Nishi-Nippon Iwatani Gas Corporation
Nippon Gas Chemi Co., Ltd.
Hydro Edge Co., Ltd.
Higashi-Nippon Iwatani Gas Corporation
FUJINOYUSUI CORPORATION
Home Energy Hokkaido Co., Ltd.
Home Energy Tohoku Co., Ltd.
Home Energy Shutoken Co., Ltd.
Home Energy Niigata Co., Ltd.
Home Energy Nishi Kanto Co., Ltd.
Home Energy Higashi Kanto Co., Ltd.
Home Energy Nagano Co., Ltd.
Home Energy Shizuoka Co., Ltd.
Home Energy Tokai Co., Ltd.
Home Energy Hokuriku Co., Ltd.
Home Energy Kinki Co., Ltd.
Home Energy Shikoku Co., Ltd.
Home Energy Sanyo Co., Ltd.
Home Energy Sanin Co., Ltd.
Home Energy Kyushu Co., Ltd.
Home Energy Minami Kyushu Co., Ltd.
Marui Sangyo Co., Ltd.
Minami-kyushu Marui Co., Ltd.
YAMAGUCHI LIQUID HYDROGEN CORPORATION
UM System Corporation
YOKOHAMA LIQUEFIED GAS TERMINAL Co., Ltd., etc.

Global Network

As of September 30, 2022



[Asia]

Iwatani Corporation Beijing Representative Office TEL: 86-10-6590-6078
 Iwatani (China) Ltd. TEL: 86-10-6590-6078
 Iwatani (China) Ltd. Shanghai Branch TEL: 86-21-6841-0899
 Iwatani (China) Ltd. Guangzhou Branch TEL: 86-20-3883-8998
 Dalian Iwatani Trading Co., Ltd. TEL: 86-411-8369-1810
 Dalian Iwatani Trading Co., Ltd. Tianjin Branch TEL: 86-22-8319-1910
 Shanghai Iwatani Co., Ltd. TEL: 86-21-6881-1188
 Shanghai Iwatani Co., Ltd. Beijing Branch TEL: 86-10-6590-6078
 Shanghai Iwatani Co., Ltd. Changzhou Branch TEL: 86-519-8333-7850
 Shanghai Iwatani Co., Ltd. Wuxi Branch TEL: 86-510-8050-2956
 Wuxi Iwatani Trading Co., Ltd. TEL: 86-510-8050-2956
 Wuhan Iwatani Commercial Trade Co., Ltd. TEL: 86-27-8761-7557
 Xiaogan Iwatani Industrial Gases Co., Ltd.
 Guangzhou Iwatani Trading Co., Ltd. TEL: 86-20-3883-8998
 Guangzhou Iwatani Trading Co., Ltd. Shenzhen Branch TEL: 86-755-8254-8452
 Dandong Iwatani Toyo Gas Meter Co., Ltd. TEL: 86-415-425-0168
 Iwatani Gas Appliances (Zhuhai) Co., Ltd. TEL: 86-756-338-3200
 Iwatani Gas Appliances (Zhuhai) Co., Ltd. Shanghai Branch TEL: 86-21-6282-8852

Iwatani Gas Appliances (Zhuhai) Co., Ltd. Guangzhou Branch TEL: 86-20-8765-8885
 Iwatani Gas Appliances (Zhuhai) Co., Ltd. Wuhan Branch TEL: 86-27-8544-8830
 Dalian Iwatani Gas Machinery Co., Ltd. TEL: 86-411-8761-1560
 Shanghai Petrochem-Iwatani Gases Development Co., Ltd. TEL: 86-21-5882-3300
 Jiaxing Iwatani Industrial Gases Co., Ltd. TEL: 86-573-8527-7746
 Sydek Hang Fung Precise Package (Shanghai) Co., Ltd. TEL: 86-21-5866-6009
 Sydek Hang Fung Precision (Suzhou) Co., Ltd. TEL: 86-512-6636-6806
 Suzhou Iwatani Metal Products Co., Ltd. TEL: 86-512-5311-8570
 Tangshan Kinsei Matec Co., Ltd. TEL: 86-315-385-3861
 Suzhou Kinsei Matec Co., Ltd. TEL: 86-512-6665-7995
 Zhongshan Iwatani Co., Ltd. TEL: 86-760-2361-8600
 Zhongshan Iwatani Trading Co., Ltd. TEL: 86-760-2361-8600
 Zhongshan Kasatani Co., Ltd. TEL: 86-760-2361-8608
 Iwatani Corporation (Hong Kong) Ltd. TEL: 852-2199-7727
 Sydek Hang Fung Trading Co., Ltd. TEL: 852-2635-9208
 Iwatani Corporation (Taiwan) Ltd. TEL: 886-2-2506-6955
 Iwatani Corporation (Korea) Ltd. TEL: 82-2-753-8381
 Iwatani Philippines, Inc. TEL: 63-917-838-1645
 Iwatani Trading Philippines Inc. TEL: 63-917-838-1645

Iwatani Corporation (Singapore) Pte. Ltd. TEL: 65-6220-8347
 Iwatani Corporation (Singapore) Pte. Ltd. Jurong Factory TEL: 65-6862-2111
 Iwatani Nox Gas Pte. Ltd. TEL: 65-6862-2111
 Iwatani Malaysia Sdn. Bhd. TEL: 60-3-2164-8660
 Iwatani-SIG Industrial Gases Sdn. Bhd. TEL: 60-86-255-339
 Kincera Sdn. Bhd. TEL: 60-3-8724-8846
 Iwatani Corporation (Thailand) Ltd. TEL: 66-2-231-1764
 Iwatani Corporation (Thailand) Ltd. Lamphun Branch TEL: 66-53-552-451
 Iwatani Tomoe (Thailand) Co., Ltd. TEL: 66-2-231-1764
 Iwatani Gas and Machinery (Thailand) Ltd. TEL: 66-2-231-1764
 Bangkok Ai-Toa Co., Ltd. TEL: 66-34-490-729
 Iwatani Vietnam Co., Ltd. TEL: 84-24-3946-1330
 Iwatani Vietnam Co., Ltd. Ho Chi Minh City Branch TEL: 84-28-3821-7245
 PT. Iwatani Indonesia TEL: 62-21-252-3450
 PT. Iwatani Industrial Gas Indonesia TEL: 62-21-890-4373
 Iwatani India Pvt. Ltd. TEL: 91-124-4555-666

[Oceania]

Iwatani Corporation Perth Representative Office TEL: 61-8-9439-8815

Iwatani Australia Pty. Ltd. TEL: 61-8-9439-8815
 Iwatani Australia Pty. Ltd. Brisbane Office
 Doral Mineral Sands Pty. Ltd. TEL: 61-8-9725-5411
 Doral Fused Materials Pty. Ltd. TEL: 61-8-9439-2236
 Keysbrook Leucocene Pty. Ltd. TEL: 61-8-6557-5340

[North America]

Iwatani Corporation of America TEL: 1-713-965-9970
 Iwatani Corporation of America California Branch TEL: 1-669-236-4450
 Advanced Specialty Gases TEL: 1-775-356-5500

[Europe]

Iwatani Corporation Europe Office TEL: 49-89-2370808-0

[Middle East]

Iwatani Corporation-Abu Dhabi TEL: 971-2-658-5701
 Iwatani Corporation-Doha (QFC Branch) TEL: 974-4431-3140
 Gulf Helium Services W.L.L. TEL: 974-4427-1780

Gas Supply Network

As of September 2, 2022

LPG

■ Primary terminals (import and storage terminals) 5 locations ▲ Secondary terminals (LPG terminals) 3 locations

Kashima L.P.G. Joint Stockpiling Co., Ltd. Kashima Plant
 Negishi Liquefied Gas Terminal
 Sakai LPG Terminal
 Nikko Liquefied Gas Co., Ltd. Mizushima Terminal
 Oita L.P.G. Joint Stockpiling Co., Ltd. Oita Plant

Yokohama Liquefied Gas Terminal*
 Hirata LPG Terminal*
 Okinawa LPG Terminal*

● Tertiary terminals (filling stations) 96 locations (locations marked with an * are core LPG centers [56 locations])

Kitami LPG Center	Odawara LPG Center*	Himeji LPG Center	Kumamoto LPG Center*
Kushiro LPG Center*	Nagano LPG Center*	Awaji LPG Center*	Hitoyoshi LPG Center
Tokachi LPG Center*	Matsumoto LPG Center	Tottori LPG Center	Miyazaki LPG Center*
Ishikari LPG Center*	Ueda LPG Center	Yonago LPG Center*	Miyakonojo LPG Center*
Hakodate LPG Center*	Iida LPG Center	Tsuyama LPG Center	Nichinan LPG Center
Goshogawara LPG Center	Izu LPG Center	Okayama LPG Center	Kagoshima LPG Center*
Aomori LPG Center*	Shizuoka LPG Center*	Bingo LPG Center	Chubu LPG Center*
Noshiro LPG Center	Kakegawa LPG Center*	Fukuyama LPG Center*	Nishihara LPG Center*
Akita LPG Center*	Kurobe LPG Center	Higashihiroshima LPG Center	Itoman LPG Center
Morioka LPG Center*	Toyama LPG Center	Etajima LPG Center	
Yamagata LPG Center*	Tono LPG Center*	Oda LPG Center	
Kesennuma LPG Center	Gifu LPG Center*	Hamada LPG Center*	
Furukawa LPG Center	Okazaki LPG Center*	Masuda LPG Center	
Sendai LPG Center*	Yokkaichi LPG Center*	Kudamatsu LPG Center	
Haramachi LPG Center	Ise LPG Center*	Yamaguchi LPG Center*	
Koriyama LPG Center*	Wajima LPG Center	Shodoshima LPG Center	
Iwaki LPG Center	Kanazawa LPG Center*	Sakaide Gas Center	
Muikamachi LPG Center	Komatsu LPG Center	Tokushima LPG Center	
Kanuma LPG Center*	Fukui LPG Center*	Kochi LPG Center*	
Oyama LPG Center*	Tsuruga LPG Center	Matsuyama LPG Center	
Ibaraki LPG Center*	Obama LPG Center	Kokura LPG Center	
Ryugasaki LPG Center*	Kyoto Kita LPG Center	Fukuoka Kita LPG Center	
Chiba LPG Center*	Kyoto LPG Center*	Chikuho LPG Center*	
Sodegaura LPG Center*	Osaka Higashi LPG Center*	Fukuoka LPG Center*	
Maebashi LPG Center*	Wakayama LPG Center	Oita LPG Center*	
Gyoda LPG Center*	Tanabe LPG Center	Saga LPG Center*	
Kawagoe LPG Center*	Wadayama LPG Center	Omura LPG Center*	
Iwatsuki LPG Center*	Higashi Harima LPG Center*	Goto LPG Center*	
Tokyo LPG Center*	Akashi LPG Center	Yamaga LPG Center	

Industrial Gases

■ Integrated gas centers 21 locations

Sendai Gas Center	Iwatani Industrial Gases Corporation Okazaki Plant
Koriyama Gas Center	Iwatani Industrial Gases Corporation Uji Plant
Tsukuba Gas Center	Iwatani Industrial Gases Corporation Amagasaki Plant
Tatebayashi Gas Center	Hyogo Gas Center (Oookasansosyokai Corporation Himeji Plant)
Kawagoe Gas Center	Iwatani Industrial Gases Corporation Hiroshima Plant
INJ Gas Center Co., Ltd.	Ube Gas Center
Tokai Sangyo Co., Ltd. Shonan Gas Center	Shikoku Iwatani Sangyo Co., Ltd. Sakaide Plant
Shizuoka Gas Center Co., Ltd.	Iwatani Industrial Gases Corporation Kitakyushu Plant
Iwatani Hokuriku Gas Center Co., Ltd.	Iwatani Fukuoka Gas Center Co., Ltd.
Iwatani Industrial Gases Corporation Komatsu Plant	Iwatani Kumamoto Gas Center Co., Ltd.
Iwatani Industrial Gases Corporation Mie Plant	

Industrial Gases

▲ Air separation plants 9 locations

Akita Liquid Oxygen Industry Co., Ltd.
 Sendai Sanso Center Co., Ltd.
 Air Chemicals Corporation Kitsuregawa Plant
 Iwatani Industrial Gases Corporation Kofu Plant
 Hokuriku Air Chemicals Corporation
 Hydro Edge Co., Ltd.
 Cold Air Products Co., Ltd.
 Sanyo Air Chemicals Corporation
 Kyushu Cryogenics Co., Ltd.

● Facilities, other 8 locations

Iwatani Industrial Gases Corporation Tokyo Helium Center
 Iwatani Industrial Gases Corporation Chiba Plant
 UBE Corporation Nagoya Ammonia Center
 Iwatani Industrial Gases Corporation Mie Plant
 Iwatani Industrial Gases Corporation Yokkaichi Plant
 Iwatani Industrial Gases Corporation Osaka Helium Center
 Sakai Carbonics
 Iwatani Industrial Gases Corporation Himeji Plant

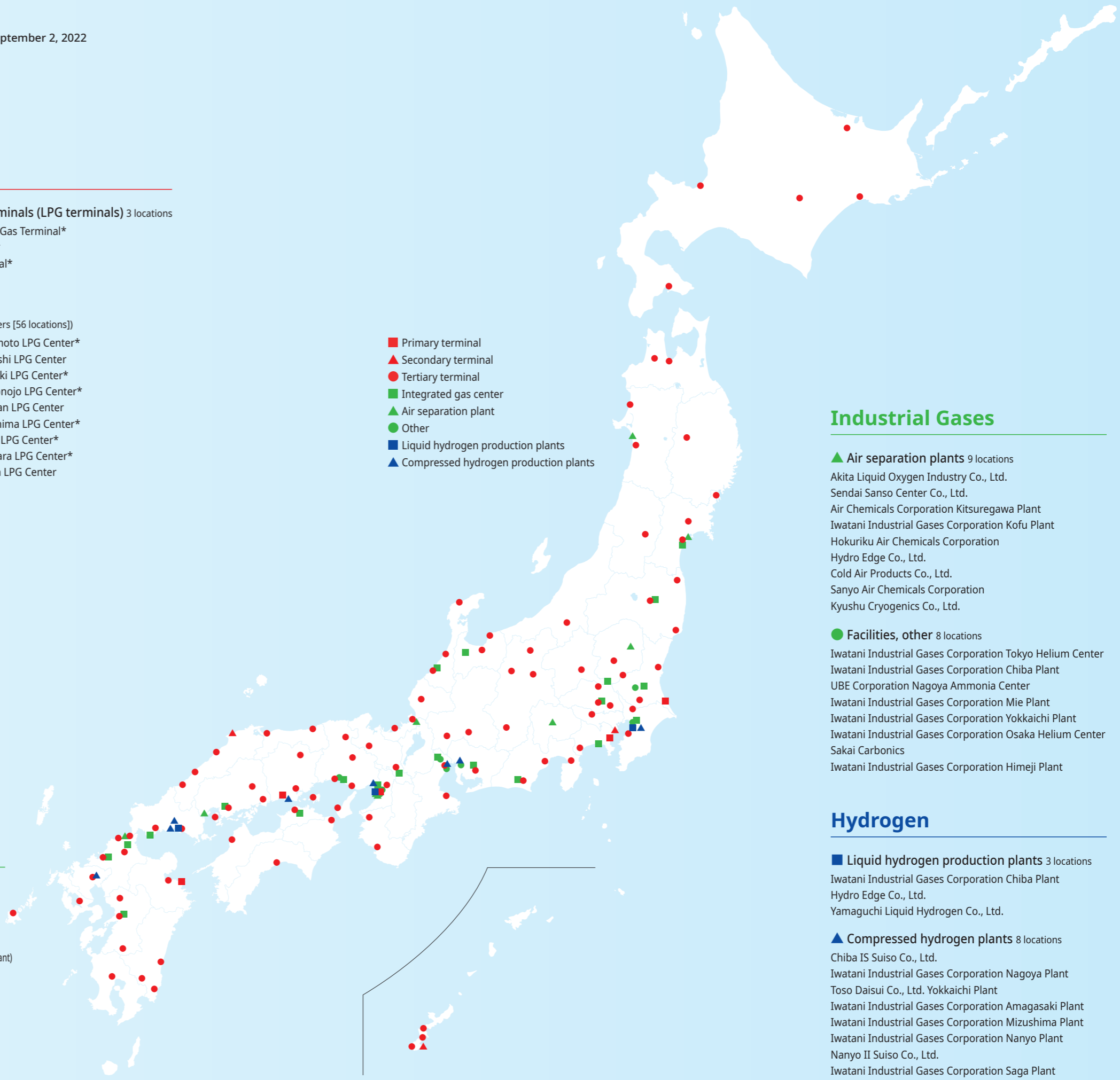
Hydrogen

■ Liquid hydrogen production plants 3 locations

Iwatani Industrial Gases Corporation Chiba Plant
 Hydro Edge Co., Ltd.
 Yamaguchi Liquid Hydrogen Co., Ltd.

▲ Compressed hydrogen plants 8 locations

Chiba IS Suiso Co., Ltd.
 Iwatani Industrial Gases Corporation Nagoya Plant
 Toso Daisui Co., Ltd. Yokkaichi Plant
 Iwatani Industrial Gases Corporation Amagasaki Plant
 Iwatani Industrial Gases Corporation Mizushima Plant
 Iwatani Industrial Gases Corporation Nanyo Plant
 Nanyo II Suiso Co., Ltd.
 Iwatani Industrial Gases Corporation Saga Plant



Iwatani

Iwatani Corporation

Osaka Head Office 6-4, Hommachi 3-chome, Chuo-ku, Osaka 541-0053, Japan TEL:81-6-7637-3131
Tokyo Head Office 21-8, Nishi-shimbashi 3-chome, Minato-ku, Tokyo 105-8458, Japan TEL:81-3-5405-5711

Iwatani Corporation
Website



This report is printed using waterless printing with limited effluent and consumption of hazardous substances.



This report is printed with inks containing no volatile organic compounds (VOC).



This product is made of material from well-managed FSC®-certified forests, recycled materials, and other controlled sources.