

# CORPORATE BROCHURE

2024 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.

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About Iwatani



Our History



# Medium-Term Management Plan “PLAN27”<sup>(FY2023-FY2027)</sup>

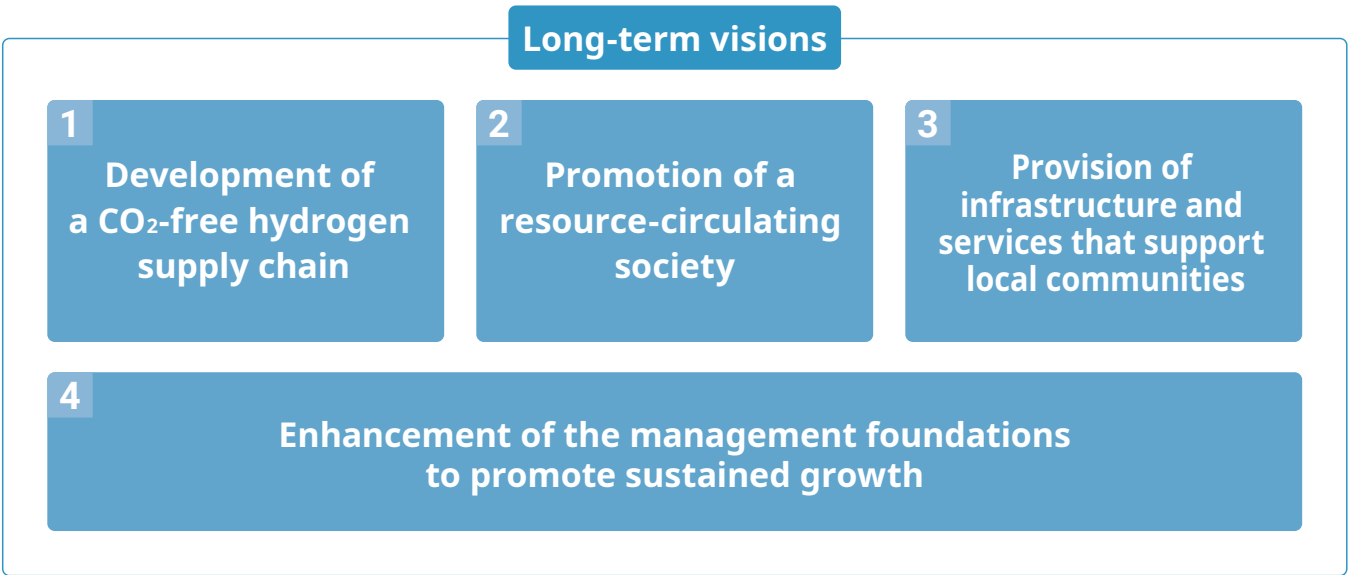
Iwatani has formulated PLAN27 as a five-year medium-term management plan starting in FY2023. Based on our Corporate Philosophy—Become a person needed by society, as those needed by society can prosper—we will strive to grow our businesses to contribute to solutions to social issues and sustained growth by addressing society’s challenges through the businesses that stakeholders need.

## Long-term visions

We have established four long-term visions for 2030. We consider the period covered by PLAN27 to be a vital period for realizing these long-term visions.

Our Vision for FY2030

Corporate group that continues to contribute to the creation of a more comfortable space on the Earth



## PLAN27

Theme

Establishing a hydrogen energy-based society

Basic policy

Business expansion to achieve “solutions to social issues” and “sustained growth”

| Management targets |               |              |
|--------------------|---------------|--------------|
| Operating profit   | ROE           | ROIC         |
| ¥65.0 billion      | 10% or higher | 6% or higher |

## Priority measures

Hydrogen Strategies

- Expand liquid hydrogen business that captures growing carbon-free-related demand.
- Develop a CO<sub>2</sub>-free hydrogen supply chain.

Carbon-free Strategies

- Expand business by promoting low-/zero-carbon solutions business.
- Invest in the realization of a carbon-free society.

Domestic Energy & Service Strategies

- Expand market share and streamline distribution by utilizing LPG business infrastructure.
- Provide services that contribute to solving social issues of local communities.

Overseas Strategies

- Leverage strengths of individual segments to expand business in respective regions.

Non-financial Strategies

Climate Change Response

FY2030

50% reduction in CO<sub>2</sub> emissions from the Iwatani Group in Japan (vs. FY2019)

Human Resource Strategy

Realize a virtuous circle of organizational growth through the recruitment, development, and active participation of our people.

Ratio of female managers

10% or more

Annual training costs per employee

¥150 thousand

Percentage of childcare leave taken by male employees

100%

Technology Strategy

Enhance the technological and safety capabilities that leverage the Gas & Energy businesses.

Specialization

Technological capabilities

IP strategy

## Breakdown of Investment Funds

|                         | Amount          | Content                                                                                                                                                                                                                                    |
|-------------------------|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Growth investment       | ¥420.0 billion* |                                                                                                                                                                                                                                            |
| Priority measures       | ¥320.0 billion  | <ul style="list-style-type: none"><li>Development of CO<sub>2</sub>-free hydrogen supply chains</li><li>Promotion of low-/zero-carbon business</li><li>Expansion of domestic energy business</li><li>Growth investments overseas</li></ul> |
| Foundational businesses | ¥100.0 billion  | <ul style="list-style-type: none"><li>Expansion of domestic supply capacity of air separation gases, etc.</li></ul>                                                                                                                        |
| Maintenance/Repairs     | ¥50.0 billion   | <ul style="list-style-type: none"><li>Repairs of LPG plants, etc.</li></ul>                                                                                                                                                                |

\* Excluding investments related to the acquisition of stock in Cosmo Energy Holdings Co., Ltd.



## 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, and materials, 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.

Since 1941, when we identified hydrogen as the ultimate clean energy source, 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 help achieve the Sustainable Development Goals (SDGs) and realize carbon neutrality by 2050 through hydrogen.

As a co-representative of the Japan Hydrogen Association established in December 2020 and as a key member of the Hydrogen Council established chiefly by global energy firms, we are acting to promote use of hydrogen around the world with the aim of moving toward a hydrogen energy-based society.

To stimulate new hydrogen demand, we are developing hydrogen- refueling stations in Japan and in the United States in response to the spread of fuel cell vehicles (FCVs). In particular, we are focusing on developing hydrogen-refueling stations for fuel cell commercial vehicles, including trucks and buses, whose use is expected to grow in the future.

We are securing new hydrogen demand by meeting customer needs to reduce carbon emissions through means including factory decarbonization and hydrogen supply as a fuel to enable real-world means of transportation and mobility, whether by train, marine craft, or other, at large scale.

Our efforts to secure CO<sub>2</sub>-free hydrogen sources include studying the commercialization of green liquid hydrogen production with a power utility in Australia. In addition, the Liquefied Hydrogen Supply Chain Commercialization Demonstration Project in which we participate has been

selected by the New Energy and Industrial Technology Development Organization (NEDO) for funding from the Green Innovation Fund. This project will include feasibility studies on developing global liquid hydrogen supply chains integrating hydrogen production, liquefaction, shipping, marine transport, and receipt to establish the world's first large-scale hydrogen liquefaction and transport technologies capable of handling capacities on the order of tens of thousands of tons per year.

In Japan, we are participating in the Fukushima Plan for a New Energy Society, a project intended to produce green hydrogen using electric power generated from renewable energy sources, as well as a project to produce hydrogen from plastic waste. We are also studying a broad range of practical projects, including efforts to launch a new liquid hydrogen production plant.

Our main LPG business has a customer base of more than 3.3 million households across Japan. We support our customers' lives in various aspects, including stable supplies, solutions, security, community contributions, and the environment. We are making energetic progress to achieve LPG decarbonization through various efforts, including research on decarbonization through supplying LPG mixed with hydrogen, as well as synthetic green LPG production, as we head toward becoming the energy & living total service provider of choice for our customers and communities.

At the same time, to accelerate our efforts to increase our corporate value, we acquired stock in Cosmo Energy Holdings Co., Ltd. in December 2023 and March 2024, raising our stake to more than 20% and making Cosmo Energy Holdings an equity method investee. Both companies will move forward with efforts to achieve a decarbonized society through the hydrogen business and other activities, as well as strengthening their relationships in existing business fields such as LPG.

As we advance toward our 100th anniversary and beyond, we remain firmly committed to achieving sustained growth, and will continue to offer new value to all our stakeholders.

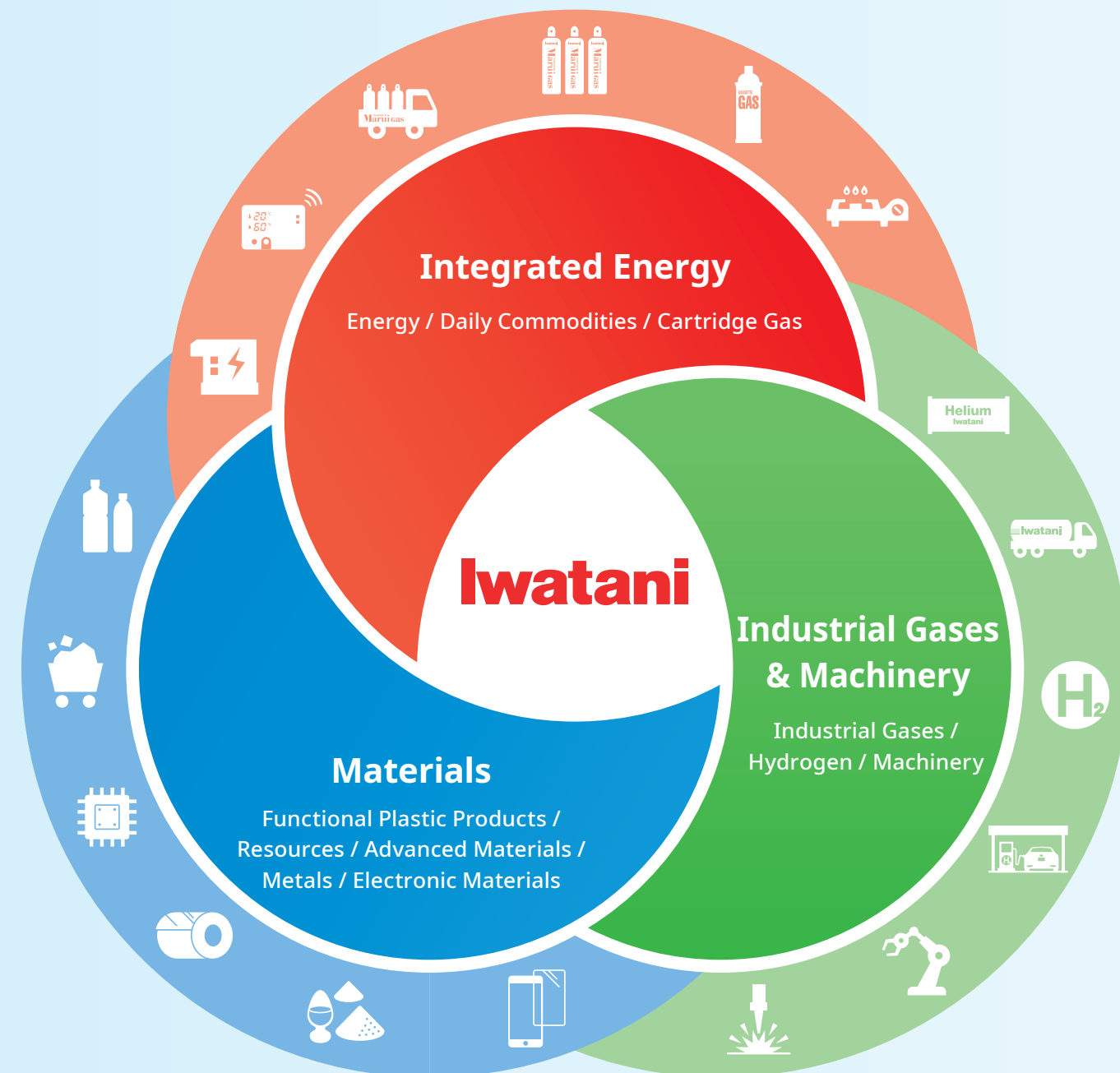
# Three Business Fields

Iwatani engages in business in the following three fields,  
centered on Gas and Energy:

## Integrated Energy

## Industrial Gases & Machinery

## Materials



## Integrated Energy



### 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

## Industrial Gases & Machinery



### Industrial Gases

Oxygen / Nitrogen / Argon / Carbon dioxide / Helium / Acetylene  
Ammonia / Refrigerant gas / 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

## Materials



### Functional Plastic Products

PET resins / Aluminum catalyst PET resins / Bio-PET resins  
Bio-PP/bio-PE/bio-PS resins / General-purpose resins  
Engineering plastic resins / Molded resin products

### Resources

Mineral sands (zircon, titanium raw materials)  
Biomass fuel (PKS, wood pellets) / Raw materials for refractories  
Metal powders and carbon materials

### Advanced Materials

Rare metal raw materials / Rare Earths / Nanomaterials  
Ceramic molded products / Other electronic materials

### Metals

Stainless steel / Aluminum / Copper/copper alloys  
Functional aluminum foil / High alloy steels/nickel alloys  
Highly functional stainless steel foil / Metalworking products  
Secondary metals

### Electronic Materials

Battery-related materials (cobalt, lithium, manganese, etc.)  
Battery parts and materials / Functional films for display use

# Iwatani in 5 Minutes

As of March 31, 2024

## What Kind of Company Is Iwatani?

### 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 **47** Overseas **79**



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

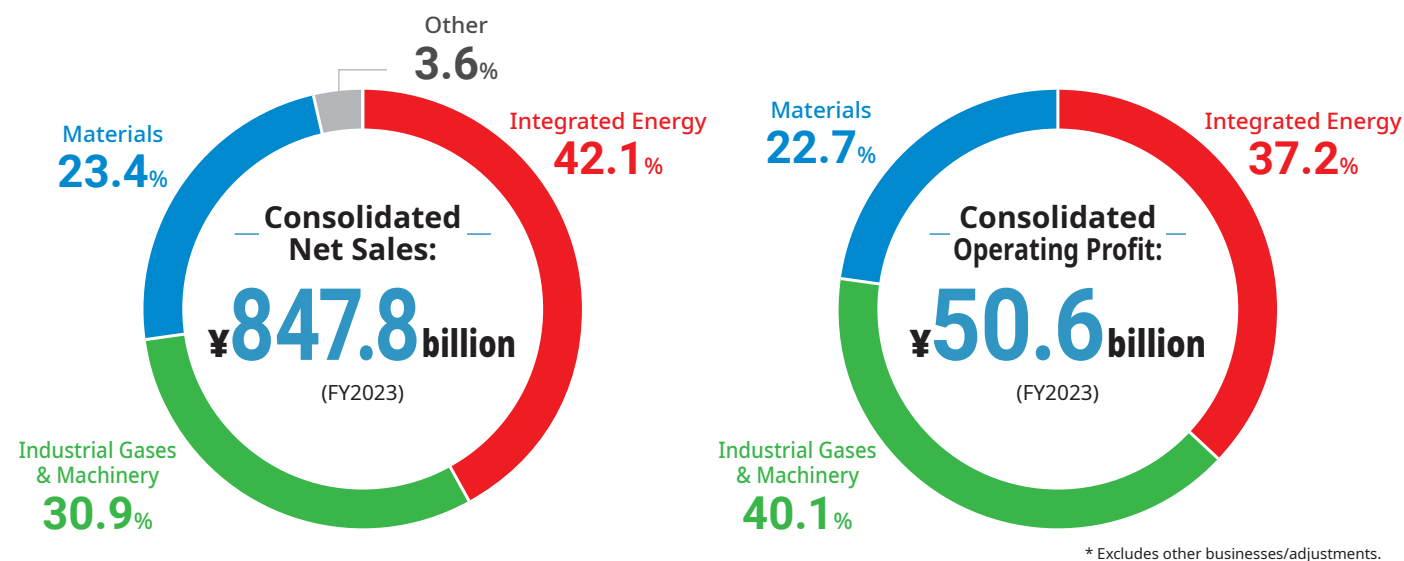
### Consolidated number of employees

**11,332**

### Number of group companies

**241** Including **105** consolidated subsidiaries

## Net Sales and Operating Profit



## Iwatani as Number One

### Household LPG

Retail

**1.11 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. (Iwatani data)

### LPG centers

Primary / secondary / tertiary terminals

**115 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. (Iwatani data)

### Portable gas cooking stoves and cassette gas canisters

Portable gas cooking stoves

**4,054 thousand units**



Top share in Japan for portable gas cooking stoves and cassette gas canisters

Cassette gas canisters

**164 million units**

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.

\* Quantities include both Japanese and overseas sales volumes (Iwatani data).

### 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: 2024 Gas Georama in Japan

### Hydrogen

Japanese share of compressed and liquid hydrogen

**Approx. 70%**



Japanese share of liquid hydrogen

**100%**

More than 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. \* Excludes on-site piping (Iwatani data).

### Hydrogen-refueling stations

In Japan

**51 locations**



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

### 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. (Iwatani data)

### Mineral sands

Annual volume handled

**Over 130,000 t**



We handle Japan's largest volume of mineral sands, a rare metal raw material for which we were the first to begin handling, in 1952. We operate an exclusive mining concession in Australia. (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.

## CO<sub>2</sub> visualization and valuation

### CO<sub>2</sub> emissions calculation and visualization service

Iwatani offers customers, primarily in the manufacturing industry, the "Zeroboard Cloud Service" provided by Zeroboard Inc., which calculates CO<sub>2</sub> emissions and allows visualization of CO<sub>2</sub> 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 CO<sub>2</sub> reductions

Allows CO<sub>2</sub> 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 CO<sub>2</sub> reductions.



## Energy

### Fuel conversion to LPG and LNG

Switching to energy with low CO<sub>2</sub> emissions is the ideal way to achieve major CO<sub>2</sub> reductions. Conversion from heavy oil and kerosene fuel to LPG and LNG can cut CO<sub>2</sub> emissions between 15% and 30%. It also provides access to subsidies via CO<sub>2</sub> reductions and energy savings.



### Hydrogen energy usage

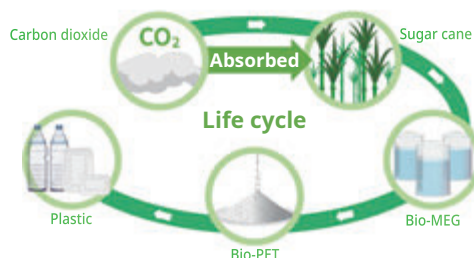
Iwatani was quick to see the potential of hydrogen and now boasts the largest share in the Japanese compressed hydrogen market. Iwatani is the only manufacturer of liquid hydrogen in Japan, giving it a 100% market share. Iwatani is also involved in activities such as supporting the construction of hydrogen-refueling 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 / bio-PS 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 / bio-PS resins that use bionaphtha obtained from waste materials, residue oil, and other recycled materials.



### Secondary metal supply

Discarded electronic circuit boards and components contain significant amounts of metals, such as copper and precious metals. In addition, secondary metal materials, which require no excavation, can significantly reduce CO<sub>2</sub> emissions from metal production. Iwatani procures secondary metal materials from overseas for supply to material manufacturers.



## Production processes

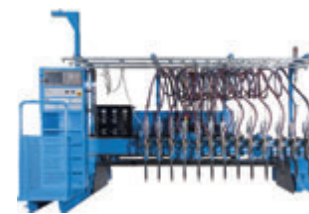
### Hydrocut® series reduced-CO<sub>2</sub> cutting gases

The Hydrocut® series of premixed hydrogen-cutting gases provides clean, safe cutting gases that are available only from Iwatani, backed up by its strong track record in hydrogen. Hydrocut® is an alternative to acetylene, while New Hydrocut® is an alternative to propane cutting gas, and each enables substantial reductions in CO<sub>2</sub> emissions compared to traditional cutting gases.



### CO<sub>2</sub> emissions reductions from hydrogen cutting machine

We've supplied numerous manufacturing sites with a wide range of equipment for many years. KOHTAKI PRECISION MACHINE Co., Ltd.'s hydrogen cutting machine uses 100% hydrogen in the gas cutting process to eliminate CO<sub>2</sub> emissions during cutting and help achieve CO<sub>2</sub> reductions in the supply chain.



### Reduced-CO<sub>2</sub> burners and industrial furnaces

Oxygen-enriched combustion using pure oxygen burners and other equipment allows more efficient use of fuel energy than combustion in air. It offers higher flame temperatures, which can save energy through increased productivity and time reductions. Iwatani offers a comprehensive service from burner system design to the supply of fuel.



### CO<sub>2</sub> emissions reductions from mixed-combustion type hydrogen burner

We've been involved for years in equipment that addresses air pollution, water purification, and waste treatment to help protect the environment. A mixed-combustion type hydrogen burner allows users to set hydrogen burning ratios from zero to 100% to achieve an optimal balance between CO<sub>2</sub> emissions reductions and cost.



## 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.



### 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 CO<sub>2</sub> reductions based on honeycomb heat reservoirs with high heat exchange efficiency.



### Recycled fluorocarbon / natural refrigerant provision

International environmental regulations have been implemented to gradually reduce production and consumption of fluorocarbons, which have high global warming potential. In response to the especially stringent obligations to achieve reductions of 70% or more (converted to CO<sub>2</sub>) in 2029 and beyond 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 CO<sub>2</sub> emissions.



# Hydrogen Business



Iwatani Cosmo Hydrogen Refueling Station Heiwajima

Hydrogen is used across a wide range of fields, including the environmental and high-tech industries, in fuel cells, semiconductor manufacturing, rocket fuel, and other applications. 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 CO<sub>2</sub>-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. We deliver stable supplies nationwide from three facilities including the Chiba Plant of Iwatani Industrial Gases Corporation in Ichihara, Chiba and YAMAGUCHI LIQUID HYDROGEN in Shunan, Yamaguchi, in addition to Hydro Edge, which boasts one of the highest production capacities in the world. The liquid hydrogen produced at these plants is used as rocket fuel as well as being supplied to more than 100 customers in Japan's electronics, chemicals, metals, glass, and other industries, used as an energy source in equipment such as pure hydrogen fuel cells and hydrogen boilers, and supplied to hydrogen-refueling stations across Japan.

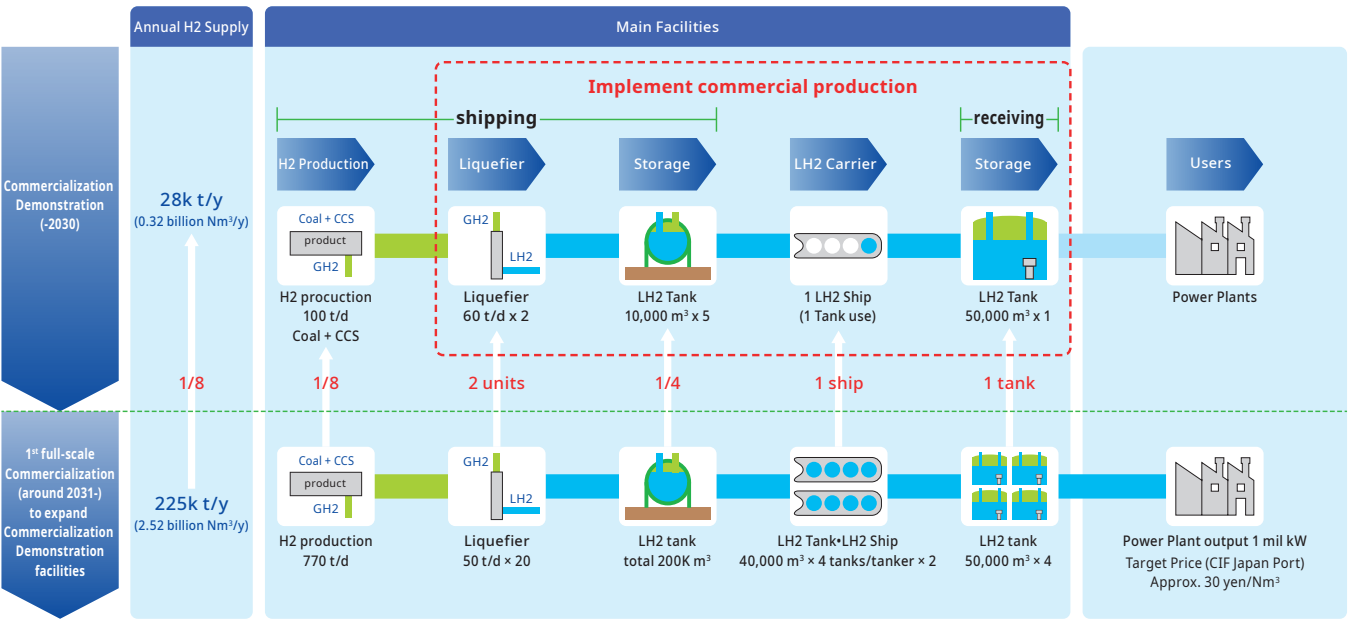


A hydrogen trailer, developed in 1960

## Project evaluating the feasibility of commercial global liquefied hydrogen supply chain

Iwatani is pursuing initiatives to build a global supply chain for CO<sub>2</sub>-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.



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

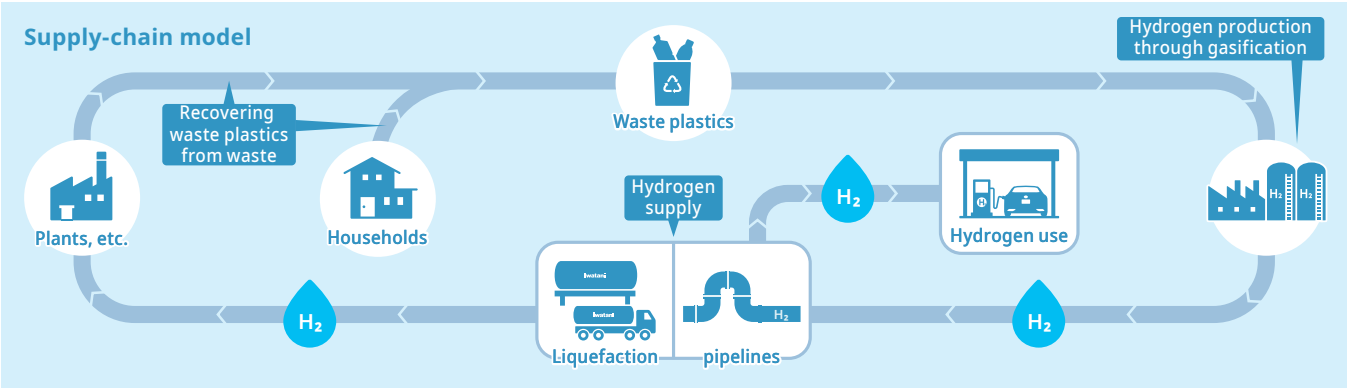
Since 2021, we have undertaken feasibility studies on the large-scale production and export of green liquid hydrogen to Japan, in partnership with Kansai Electric Power Co., Inc., Marubeni Corporation, and the Australia-based energy company Stanwell Corporation Limited. To move forward to full-scale studies in preparation for a final investment decision based on the results of these feasibility studies, we are moving ahead with front-end engineering design (FEED), together with five firms, including the Singapore-based energy firm Keppel. Intended to achieve stable, low-cost production and supply of green hydrogen over the long term, this project is expected to realize a hydrogen production capacity of at least 200 t/day by around 2028 and 800 t/day by 2031 and beyond.



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

## Building a hydrogen production supply chain through waste plastic gasification

In partnership with Toyota Tsusho Corporation and JGC Holdings Corporation, we're currently examining a joint project to produce low-carbon hydrogen through the chemical recycling of waste plastics at a site near the Port of Nagoya in Aichi. The Chubu region offers clear and significant potential for waste plastic recovery, hydrogen production and hydrogen use. We're moving forward with related efforts alongside local governments, aiming to begin basic design work soon and achieve hydrogen production by the late 2020s.

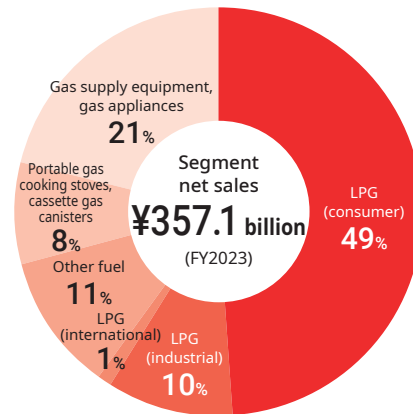


# Integrated Energy Business

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)



## Evolving into an Energy & Living Total Service Provider

### Top Japanese business base\*

Iwatani's LPG brand MaruiGas is used by more than 3.3 million households across Japan. Of these, 1.11 million households are direct sales customers. Iwatani boasts the highest share in the domestic retail and wholesale sectors. To provide finely tuned high-quality services, Iwatani operates some 400 sales and delivery bases across the country and a staffed safety monitoring center that operates 24 hours a day, 365 days a year.

\* As of March 31, 2024 (Iwatani data)



### Promoting fuel conversion

Conversion from heavy oil and kerosene fuel to LPG and LNG can cut CO<sub>2</sub> emissions between 15% and 30%. It also provides access to subsidies via energy savings and decarbonization/low carbonization effects. 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.



### Services utilizing the J-Credit scheme

The Iwatani J-Credit Project was established through the J-Credit scheme led by the Japanese government. This project strengthens, promotes, and supports activities intended to reduce CO<sub>2</sub> emissions by customers. Iwatani tracks CO<sub>2</sub> emissions reductions achieved by participating customers through means including transitioning to alternative fuels and adopting energy-saving machinery, and handles the related J-Credit procedures on their behalf. Customers can participate in the program without needing to handle the costly and time-consuming certification procedures. Customers are eligible to be reimbursed for the cost of the Iwatani services provided based on the scale of their CO<sub>2</sub> reductions, accordingly.

### Iwatani GateWay IoT Platform

Based on the Iwatani GateWay service platform, which adds information network functions to gas alarms, and by connecting Iwatani's nationwide network of LPG business facilities, we're offering new services to address community issues. In addition to gas monitoring services, we offer child monitoring and shopping services. Iwatani is also working on new initiatives such as services that detect frailty risk factors for elderly customers before they reach the 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. It operates tank trailers in each region to provide backup from other areas in the event of an emergency or disaster, while providing regional energy supplies by operating regional LNG pipelines in areas such as the cities of Maizuru and Koka.



## 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% that of electric heat pumps (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.



## LPG Emergency Measures

LPG is a distributed energy source resilient to the consequences of natural disasters. We provide LPG-powered emergency generators that supply electricity in the event of a power outage as well as LPG-powered meal preparation systems that include a large-capacity rice cooker, cooking kettle, and high-temperature gas cooking stove as a measure to cope with disasters in places such as public facilities, welfare facilities, hospitals, schools, and factories.



## 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 CO<sub>2</sub> emissions. Hot water storage tanks can also be used as a source of domestic water if the water supply is cut off.



## 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. It can also be connected to Iwatani GateWay.



## 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.

## Cassette Gas Products

Launched in 1969, the Cassette-Feu portable gas cooking stove is 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. Iwatani has developed a range of cassette gas-based products to meet changing lifestyles and needs and to support home dining needs.



## 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.



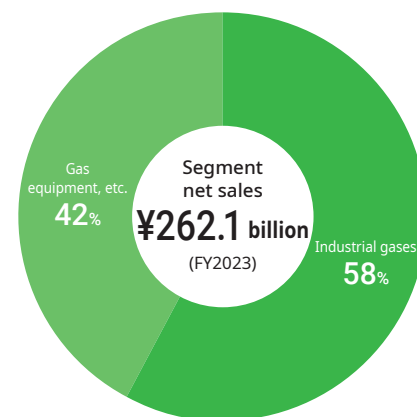
## Natural Mineral Water from Mt. Fuji Home Delivery

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 controls 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.



# 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.



## Providing Optimal Solutions with Gas and Robots

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

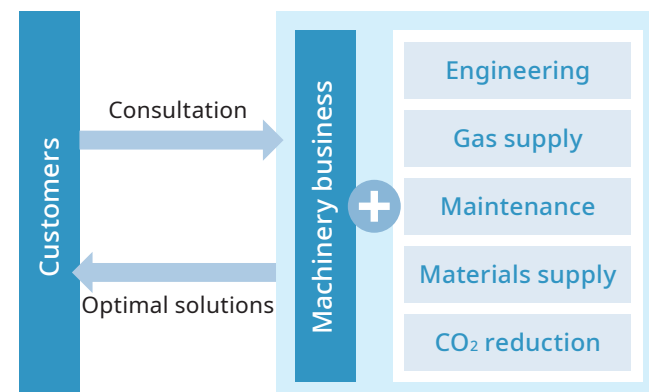
Helium is a rare natural resource vital to advanced technology and medical care applications due to its extremely low boiling point of  $-269^{\circ}\text{C}$  and its inertness, even at high temperatures. Iwatani has established a stable supply system for helium procured from Qatar and the US, for which 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 its bases in China and Southeast Asia to ensure a stable and efficient supply of helium.

\* Source: 2024 Gas Georama in Japan



### 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.



## Air Separation Gases

Oxygen, nitrogen, and argon are used in various industrial sectors, including manufacturing and medicine. Iwatani supports society by ensuring a stable supply of these materials from its growing domestic and international production and supply networks and by proposing solutions to meet customers' needs, including tank trailer transport and on-site supply of gas produced on the user side. Additionally, Iwatani is developing this business in the US and Asia.



## Regenerative Medicine and Onshore Aquaculture

Iwatani is striving to grow its businesses in the growth industries of regenerative medicine and onshore aquaculture. Activities include supplying liquid nitrogen to maintain environments at temperatures of  $-150^{\circ}\text{C}$  and below for freezing cells and low-temperature transport, as well as supplying oxygen gas used to promote the growth of fish and shellfish. Through joint research with startups, the Iwatani R&D Center is developing new technologies and applications based on its research on cell cultivation and expertise in breeding and raising fish and shellfish.



## 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.



## 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, without increasing the atmospheric concentration of carbon dioxide. Carbon dioxide gas has a wide range of applications, including welding and beverages, as well as uses in areas ranging from steelmaking and chemical-industry raw materials to agriculture. Dry ice is also used in wide-ranging applications, including for food cooling, refrigerated transportation, blast cleaning, and low-temperature pharmaceutical transportation.



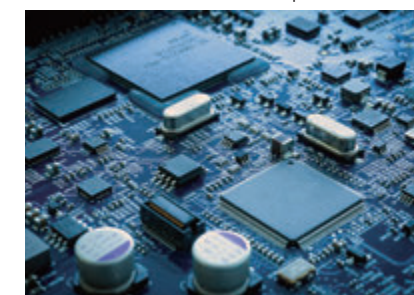
## Cryogenic Equipment

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.



## 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.



## Deuterium Gas

Deuterium gas, an isotope of hydrogen, 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. Iwatani's quality controls meet the rigorous requirements of the semiconductor industry.



## Welding and Cutting Technologies

Iwatani provides comprehensive solutions to address various welding challenges. A wide range of shielding gases, welding machines, and welding wire are available at the Iwatani R&D Center Welding Demonstration Room. Iwatani provides comprehensive solutions to address various welding challenges.



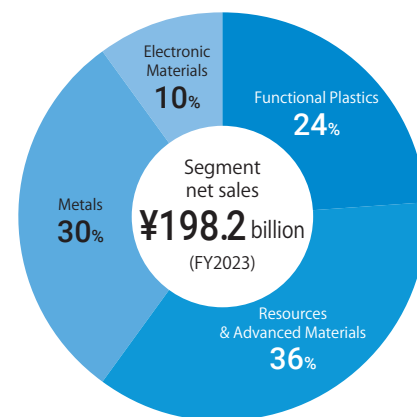
## Pharmaceuticals Manufacturing Equipment

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.



# Materials Business

A pioneer in developing mineral resources such as mineral sands and related applications, Iwatani is active in procuring and developing raw materials essential to 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 cyclical society.



Mineral sands concession in Western Australia operated by Iwatani

## New Business Development and Global Business Expansion

### Environmental solutions business

In addition to selling products characterized by low environmental impact, Iwatani is working to expand its supply chains and to strengthen its procurement capabilities. Leveraging its extensive network of business partners in Japan and worldwide, it is energetically promoting efforts to contribute to a cyclical society through product development.

- We handle bio-PET resins made from plant-based raw materials and easy-to-recycle aluminum catalyst PET resins.
- We supply biomass fuels to biomass power plants in Japan and invest to build new plants to promote the biomass power plant business.
- We handle cobalt and lithium as cathode materials for rechargeable batteries. We plan to expand the handling of new materials, including nickel, while energetically pursuing efforts to develop new battery components and materials.



Biomass fuel imported from Southeast Asia

### Metal processing

Through operating companies in Japan and worldwide, Iwatani supplies materials and metal products, chiefly stainless steel, aluminum, and high alloys, to various growth fields, including the automotive, air conditioning, electronics, medical, and environmental industries. Our handling of high-performance materials and processed products moves us closer to achieving the SDGs and a decarbonized society.

### Advanced materials development

Alongside various partners, including universities and startups, Iwatani develops a range of nanosized and other state-of-the-art materials, for which demand is expected to grow, as well as new materials used in smartphone and vehicle displays and products for use in rechargeable batteries.

### Vital mineral resources

Mineral resources are essential to the manufacture of products expected to see increased use as society moves toward decarbonization, including renewable energy equipment and electric vehicles. There is a pressing need to ensure the stable procurement of mineral resources, the production of which is unevenly distributed among nations. Iwatani is building stable supply chains by enhancing procurement and production functions to meet booming overseas demand and adopting green solutions for domestic customers who demand environmental value.

### Bioplastic Raw Materials

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 resin 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).



### Mineral Sands (Zircon, Titanium Ore)

For many years, Iwatani has claimed Japan's leading share\* of sales of zircon, a mineral used in the semiconductor, ceramics, and other industries, and titanium ore, which is used in pigments and welding materials. In addition to engaging in trade in mineral sands imported from the leading global suppliers of South Africa and Canada, Iwatani operates its own mines in Australia and has invested in a new titanium ore project with low environmental impact in Norway. We deliver stable supplies that incorporate various green measures, including generating carbon credits through afforestation initiatives.

\*As of March 31, 2024 (Iwatani data)



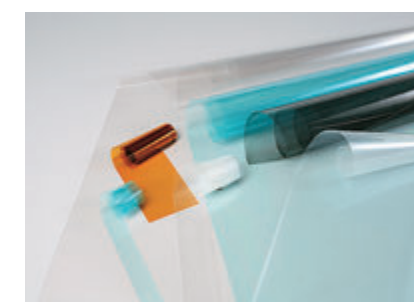
### Rare Metals and Inorganic Nano Materials

Iwatani supplies various rare metals and Rare Earth compounds and sells molded ceramic products for use across wide-ranging fields, including semiconductors, electronic components, chemical catalysts, and optics. Our activities also include efforts, undertaken in cooperation with universities and startups, to develop nano materials, new materials for power semiconductor applications, and catalysts to contribute to decarbonization, materials which are expected to see growing demand.



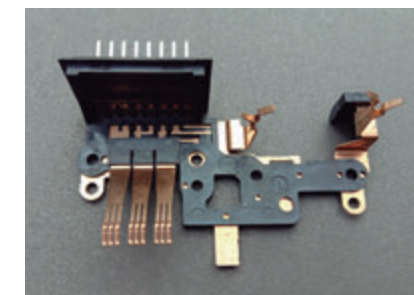
### Plastic Raw Materials and Functional Resin Products

Drawing on a network spanning China and Southeast Asia, Iwatani is expanding the business of plastic raw materials and resin products both in Japan and overseas, and actively pursues the development of products such as bio-PET resin derived from plants and functional films, based on an understanding of the growing worldwide awareness of environmental issues and of changing market needs.



### 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

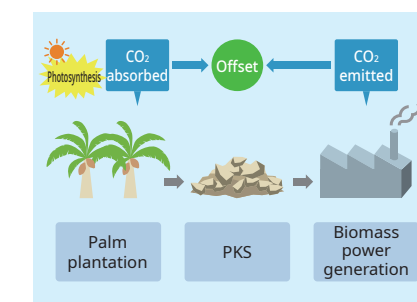
Iwatani's functional films and electronic materials are widely used in smartphone displays and components. Iwatani is developing new materials for the vehicle display market, which is expected to grow.



## Materials Business

### Biomass Fuels

Iwatani imports wood pellets and palm kernel shells (PKS), materials drawing attention as alternatives to coal, for provision to biomass power plants in Japan, from Indonesia and Malaysia. We supply high-quality PKS via quality control efforts developed in house through analysis of the thermal and moisture properties of PKS at the Iwatani R&D Center.



### 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.



### 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.



# 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 Technological 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.



## Life Science Technologies

Applying the gas reaction and low-temperature control technologies established in the Industrial Gases field, Iwatani is working to build a cold chain for cell storage and transportation for regenerative medicine through joint research with Osaka University. It also operates a fully closed-cycle onshore aquaculture facility at the Iwatani R&D Center, and is currently developing optimal onshore aquaculture systems capable of stable production using oxygen gas and LPG.



## 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.



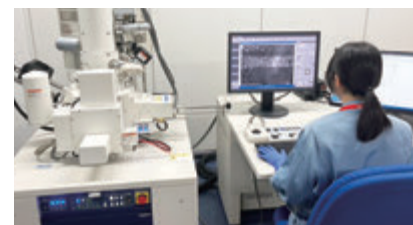
## Welding

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.



## Analysis and Quality Evaluation

The center offers a multifunctional, multipurpose experimental environment including large laboratories, environmental testing rooms, and cleanrooms, for use in the testing of machinery and equipment for real-world use. The center offers a wide range of the latest precision analytical instruments for use in various fields, including nanoscale material analysis, ultraprecise gas analysis, gas analysis of special gases used in semiconductor manufacturing, etc., and quality control analysis in food and sanitary fields. Its cutting-edge analytical and experimental environments help create new technologies for the next generation.



# Iwatani Advanced Hydrogen Technology Center

Iwatani founded the Iwatani Advanced Hydrogen Technology Center to realize its goal of building a hydrogen energy-based society. 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 Technologies

Iwatani uses some of Japan's most advanced liquid hydrogen testing equipment to develop hydrogen refueling and liquid hydrogen metering technologies for fuel cell commercial vehicles, including trucks and buses, with the ultimate goal of establishing a hydrogen energy-based society. In anticipation of growth in demand for liquid hydrogen, it is currently developing technologies for the cold recovery of liquid hydrogen at -253°C.



## High-pressure Hydrogen Gas Technologies

Iwatani is researching ways to reduce the cost of constructing hydrogen-refueling stations while enhancing safety and promoting revisions to related regulations covering ultra-high-pressure gas equipment for pressurizing hydrogen to up to 135 MPa, and evaluating the suitability of metals and other materials for use with hydrogen and their effects on equipment durability. It is also focusing on developing machinery and new technologies to enable the large-scale future supply of hydrogen.



## Clean Energy Technologies

To realize carbon neutrality by 2050, Iwatani is developing biomass raw materials and technologies to produce green LPG from green hydrogen and carbon dioxide. Through feasibility studies on supplying mixed hydrogen and LPG to households, the development of mixed hydrogen combustion technologies for industrial furnaces, and the adoption of fuel cells at the Iwatani R&D Center, we're developing a wide range of clean energy technologies.



## Raising Awareness of Hydrogen

To allow the public to experience and learn about hydrogen energy as a clean energy for future generations, the Iwatani Advanced Hydrogen Technology Center holds events to introduce and display hydrogen energy in response to requests from local governments and customers. Here, children and other members of the public can see first-hand the appeal of hydrogen energy through water electrolysis experiments, model cars powered by fuel cells, and hydrogen rocket launch experiments.



# 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 CO<sub>2</sub>-free society based on hydrogen.

View here for further details on sustainability.



## 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.



## Social Initiatives

### Social Contribution Activities

Through its support for cultural activities, promotion of athletics, and awareness raising for hydrogen, Iwatani energetically contributes to society.



## Governance Initiatives

### Corporate Governance

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



## 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.

## Certified an Eco-First Company by the Ministry of the Environment of Japan: Promoting a cyclical society through the development of a CO<sub>2</sub>-free hydrogen supply chain

To realize our vision for our centenary in 2030—Corporate group that continues to contribute to the creation of a more comfortable space on the Earth—Iwatani strives to contribute to the development of a CO<sub>2</sub>-free hydrogen supply chain and promotes a cyclical society. At the same time, it fulfills its social responsibilities by building and strengthening relations with all of its stakeholders. We're recognized as a leader in environmental issues based on our Eco-First Pledge, which summarizes various related initiatives based on four key points.

### Eco-First Pledge (summary)

- 1 In addition to reducing our own CO<sub>2</sub> emissions, we will strive to promote a decarbonized society in various other ways, including growing the hydrogen business.
- 2 We will extend efforts to inspire interest in the environment among children and raise employee environmental awareness.
- 3 We will promote migration to a CO<sub>2</sub>-free society via environmental finance.
- 4 We will actively promote initiatives that protect the environment.

## 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.



## Toward Achieving a Hydrogen Energy-Based Society

Since 2006, Iwatani has hosted the Iwatani Hydrogen Energy Forum at two venues, in Osaka and Tokyo. These events seek to deepen understanding of the various aspects of a hydrogen energy-based society and provide opportunities for networking to catalyze a shift toward such a society. Each Forum includes special lectures and Q&A sessions among participants intended to accelerate the widespread use of hydrogen energy.



## Iwatani Athletics Club

In 2023, under the guidance of coach Hisakazu Hirose and Mizuki Noguchi, the Iwatani Athletics Club won the Princess Ekiden, the qualifying round for the All Japan Industrial Teams Women’s Ekiden (Queen’s Ekiden), for the first time. The Club took eighth place in the Queen’s Ekiden. The Club’s activities reflect its cornerstone interests in contributing to society and communities through athletic activities and the training of some of Japan’s leading athletes.



## Sponsorship of the Japan International Birdman Rally

Since 2010, as a program to commemorate our 80th anniversary, we have sponsored the Japan International Birdman Rally, organized by Yomiuri Telecasting Corporation. 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 also contributes to its operation as a clean rally.



## 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.



## Disaster Relief

The MaruiGas Disaster Relief Corps is a nationwide disaster prevention organization established jointly with some 1,400 MaruiGas distributors. Designed to facilitate the rapid recovery of LPG services in the event of a disaster, it has been deployed 32 times from the time of its establishment in 1995, including after the Noto Peninsula Earthquake which occurred in January 2024. The Saudi Aramco-Iwatani Emergency LP Gas Relief Program, established in 2009, provides free portable gas cooking stoves and cassette gas canisters to locations affected by major natural disasters.



Eco-First Pledge with Ministry of the Environment (in Japanese)

# Domestic Network and Major Domestic Affiliated Companies

## [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, Kakyoin 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, Terauchiushirojo, Akita-shi, Akita 011-0906, Japan

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

**Saitama Branch** ..... TEL: 81-48-646-7020  
1071-2, Shimoochiai, 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

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

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

**Yokohama 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 104-0053, 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, Tsukijiarai, 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, Hommachi 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: 81-78-336-5400  
80, Kyomachi, Chuo-ku, Kobe-shi, Hyogo 650-0034, 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, Hommachi, Shunan-shi, Yamaguchi 745-0036, Japan

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

**Shikoku Block Branch** ..... TEL: 81-87-814-8130  
6-1, Higashihaze-cho, Takamatsu-shi, Kagawa 761-8054, 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

**Oita Branch** ..... TEL: 81-97-534-1040  
1-8, Suehiromachi 1-chome, Oita-shi, Oita 870-0027, 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

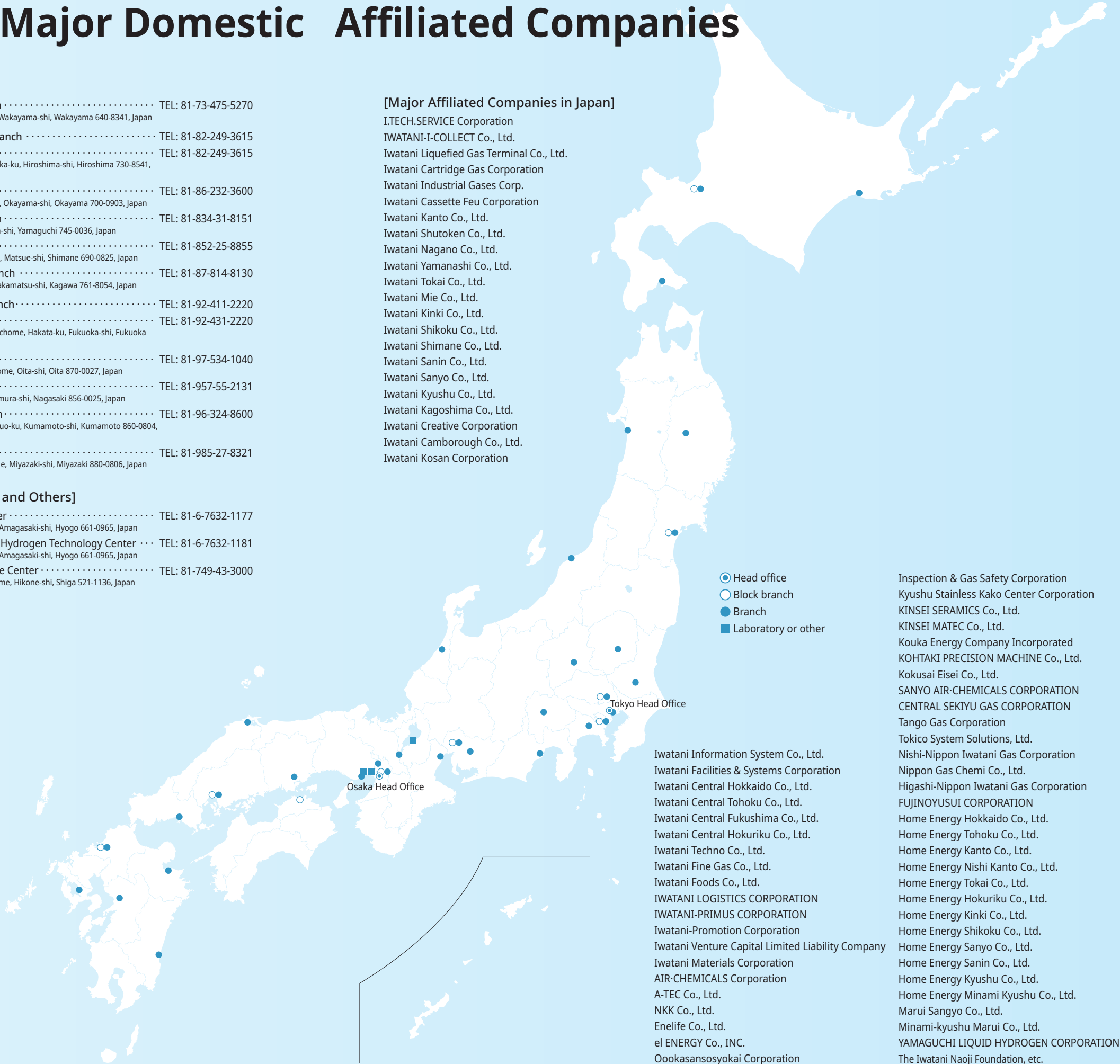
**Iwatani Advanced Hydrogen Technology Center** ... TEL: 81-6-7632-1181  
3-16, Tsugiya 3-chome, Amagasaki-shi, Hyogo 661-0965, Japan

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

## [Major Affiliated Companies in Japan]

I.TECH.SERVICE Corporation  
IWATANI-I-COLLECT 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 Shikoku 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 Foods 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  
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  
CENTRAL SEKIYU GAS CORPORATION  
Tango Gas Corporation  
Tokico System Solutions, Ltd.  
Nishi-Nippon Iwatani Gas Corporation  
Nippon Gas Chemi Co., Ltd.  
Higashi-Nippon Iwatani Gas Corporation  
FUJINOYUSUI CORPORATION  
Home Energy Hokkaido Co., Ltd.  
Home Energy Tohoku Co., Ltd.  
Home Energy Kanto Co., Ltd.  
Home Energy Nishi Kanto 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  
The Iwatani Naoji Foundation, etc.

# Global Network



[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. ····· TEL: 86-712-439-0888  
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  
Jiaying 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 Cassette Feu (Thailand) Co., Ltd. ····· TEL: 66-2-231-1764  
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. Melbourne Office ····· TEL: 61-3-9982-6313  
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 Leucoxene Pty. Ltd. ····· TEL: 61-8-6557-5340  
Iwatani Forests Pty. Ltd. ····· TEL: 61-8-9439-8815

[North America]

Iwatani Corporation of America ····· TEL: 1-713-965-9970  
Iwatani Corporation of America California Branch ··· TEL: 1-669-236-4450  
Iwatani Corporation of America California Branch, Silicon Valley Office  
Advanced Specialty Gases ····· TEL: 1-775-356-5500  
Aspen Air U.S., LLC ····· TEL: 1-406-259-9014

[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

List of locations



## LPG

### ■ Primary terminals (import and storage terminals) 5 locations

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

### ▲ Secondary terminals (LPG terminals) 2 locations

Hirata LPG Terminal\*  
Okinawa LPG Terminal\*

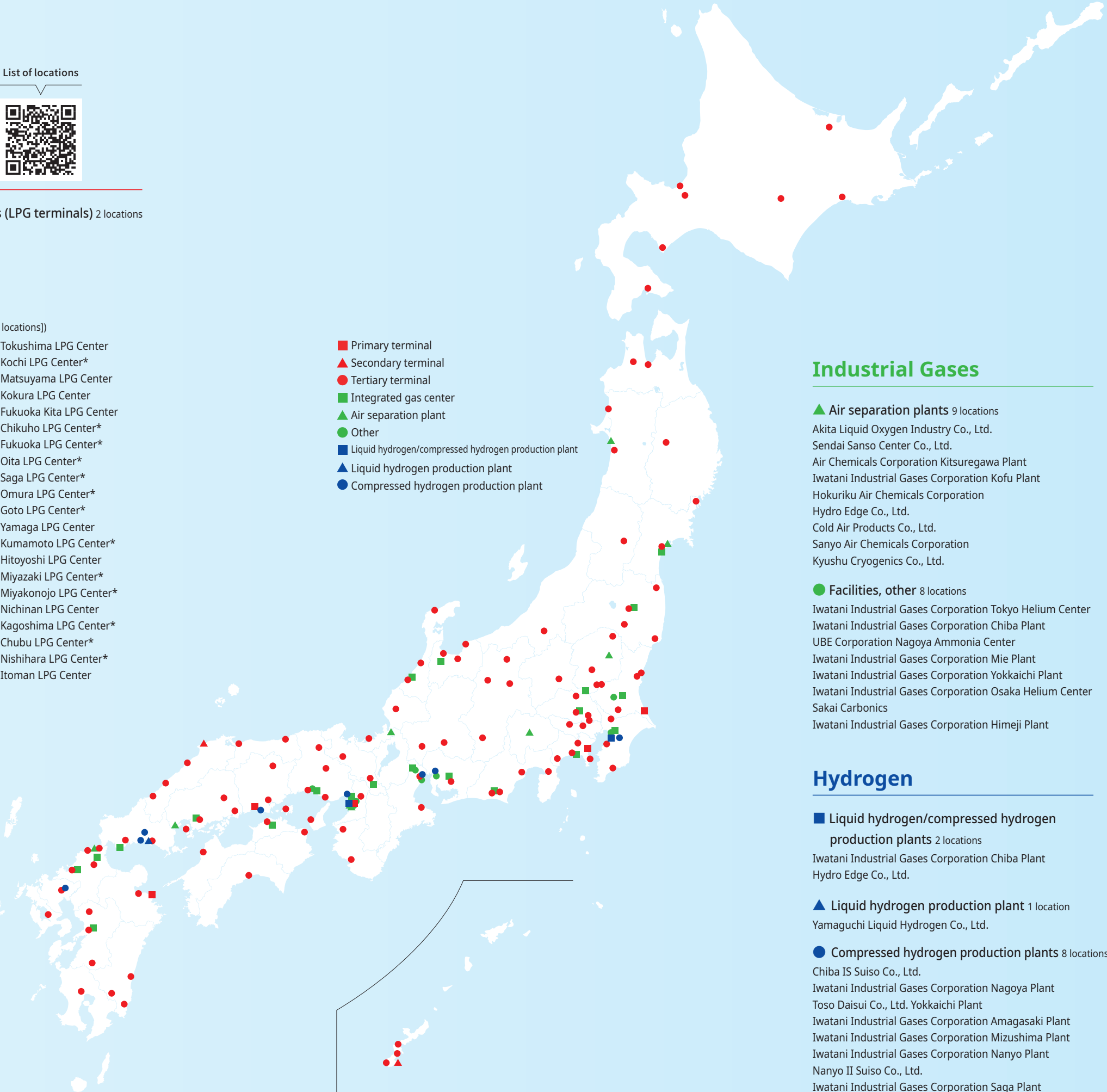
### ● Tertiary terminals (filling stations) 108 locations (locations marked with an \* are core LPG centers [61 locations])

|                                           |                                                   |                             |                         |
|-------------------------------------------|---------------------------------------------------|-----------------------------|-------------------------|
| Kitami LPG Center                         | Enelife Co., Ltd. Minamiboso Hanzawa Block Branch | Kanazawa LPG Center*        | Tokushima LPG Center    |
| Kushiro LPG Center*                       | Maebashi LPG Center*                              | Komatsu LPG Center          | Kochi LPG Center*       |
| Tokachi LPG Center*                       | Enelife Co., Ltd. Saitama Block Branch            | Fukui LPG Center*           | Matsuyama LPG Center    |
| Ishikari LPG Center*                      | Gyoda LPG Center*                                 | Obama LPG Center            | Kokura LPG Center       |
| Sapporo Higashi LPG Center                | Kawagoe LPG Center*                               | Kyoto Kita LPG Center       | Fukuoka Kita LPG Center |
| Hakodate LPG Center*                      | Iwatsuki LPG Center*                              | Kyoto LPG Center*           | Chikuho LPG Center*     |
| Muroran LPG Center                        | Tokyo LPG Center*                                 | Osaka Higashi LPG Center*   | Fukuoka LPG Center*     |
| Goshogawara LPG Center                    | Enelife Co., Ltd. Seibu Block Branch              | Wakayama LPG Center*        | Oita LPG Center*        |
| Aomori LPG Center*                        | Yokosuka LPG Center                               | Tanabe LPG Center           | Saga LPG Center*        |
| Noshiro LPG Center                        | Enelife Co., Ltd. Kanagawa Block Branch           | Wadayama LPG Center         | Omura LPG Center*       |
| Akita LPG Center*                         | Shonan LPG Center*                                | Higashi Harima LPG Center*  | Goto LPG Center*        |
| Morioka LPG Center*                       | Odawara LPG Center*                               | Akashi LPG Center*          | Yamaga LPG Center       |
| Yamagata LPG Center*                      | Nagano LPG Center*                                | Himeji LPG Center           | Kumamoto LPG Center*    |
| Kesennuma LPG Center                      | Matsumoto LPG Center                              | Awaji LPG Center*           | Hitoyoshi LPG Center    |
| Sendai LPG Center*                        | Ueda LPG Center                                   | Tottori LPG Center          | Miyazaki LPG Center*    |
| Haramachi LPG Center                      | Iida LPG Center                                   | Yonago LPG Center*          | Miyakonojo LPG Center*  |
| Koriyama LPG Center*                      | Izu LPG Center                                    | Tsuyama LPG Center          | Nichinan LPG Center     |
| Shirakawa LPG Center                      | Shizuoka LPG Center*                              | Okayama LPG Center          | Kagoshima LPG Center*   |
| Iwaki LPG Center                          | Kakegawa LPG Center*                              | Bingo LPG Center            | Chubu LPG Center*       |
| Muikamachi LPG Center                     | Enshu LPG Center                                  | Fukuyama LPG Center*        | Nishihara LPG Center*   |
| Kanuma LPG Center*                        | Kurobe LPG Center                                 | Higashihiroshima LPG Center | Itoman LPG Center       |
| Oyama LPG Center*                         | Toyama LPG Center                                 | Etajima LPG Center          |                         |
| Oyama LPG Center (Central)*               | Takaoka LPG Center                                | Oda LPG Center              |                         |
| Enelife Co., Ltd. Hitachi Filling Center* | Tono LPG Center*                                  | Hamada LPG Center*          |                         |
| Nasu LPG Center                           | Gifu LPG Center*                                  | Masuda LPG Center           |                         |
| Ibaraki LPG Center*                       | Okazaki LPG Center*                               | Kudamatsu LPG Center        |                         |
| Ryugasaki LPG Center*                     | Yokkaichi LPG Center*                             | Yamaguchi LPG Center*       |                         |
| Chiba LPG Center*                         | Ise LPG Center*                                   | Shodoshima LPG Center       |                         |
| Sodegaura LPG Center*                     | Wajima LPG Center                                 | Sakaide Gas 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                                               |
| Higashi-Nippon Iwatani Gas Corporation Shonan Gas Center | Iwatani Shikoku 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/compressed hydrogen production plants 2 locations

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

### ▲ Liquid hydrogen production plant 1 location

Yamaguchi Liquid Hydrogen Co., Ltd.

### ● Compressed hydrogen production 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



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