



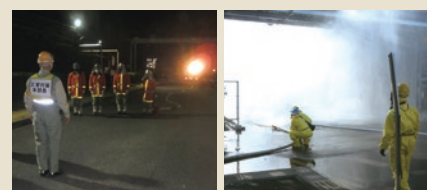
Ensuring Community Safety and Security

“Creating a Better Future Through *Monozukuri*”— Each plant of the Central Glass Group strives to achieve this goal by carrying out production activities in a way that ensures a stable product supply based on around-the-clock safety and disaster prevention systems. The Central Glass Group will contribute to the establishment of a truly prosperous society through its products while always considering the environment in each region and communicating with the local people.



Ube Plant

Address	5253 Okiube, Ube City, Yamaguchi Prefecture
Number of Employees	657 (as of March 31, 2022)
Major items produced	Fluorine products, other chemicals
Acquired certifications	ISO 14001 (December 2000) ISO 9001 (December 1997) ISO 45001 (April 2020)



Nighttime Mobilization and Comprehensive Disaster Prevention Drill (Ube Plant)



Isamu Mori
Plant Manager
Ube Plant

Message from the Plant Manager

Ube Plant, established in 1936 and located in the coastal industrial region of Ube along the Seto Inland Sea, began with soda production and expanded to production of fertilizers and fine chemical products. Today, Ube Plant primarily manufactures fine chemicals containing organic and inorganic fluorine compounds from raw materials such as hydrofluoric acid. Its product lineup includes etching gas, general inhalational anesthetics, and blowing agents for building insulation foam, all of which enjoy top global market shares. In particular, all the cleaning gas products for semiconductor processes developed by Central Glass are environmentally friendly with zero Global Warming Potential (GWP). In addition, the GWP of our general inhalational anesthetics has been found to be extremely low compared to competing products. We also manufacture non-CFC fluorocarbon products with a next-generation low GWP. Through this type of manufacturing, our plant is actively striving for eco-friendly businesses.

As plant initiatives to reduce greenhouse gases, we optimize the operation conditions of each factory and adopt high-efficiency equipment. In FY2021 we achieved a 78.5% reduction in CO₂e emissions compared to FY2013 by transitioning the fuel we use from heavy oil to city gas.

As waste reduction initiatives, we have installed equipment to recover the raw material fluorite from the liquid waste of manufacturing processes, and to incinerate some of the waste oil from each factory. These efforts work to recycle resources and reduce the final disposed amount of waste.

In April 2020, we completed transitioning our occupational safety management system from OHSAS18001 to ISO 45001. We will continue to maintain and improve a safe, secure, and healthy working environment.

Security and Disaster Prevention Activities

Each plant of Central Glass Co., Ltd. lays a foundation for around-the clock safety and disaster prevention systems with a slogan of “Safety First.”

We systematically conduct disaster prevention drills that anticipate earthquake-related leaks and fires, as well as tsunami evacuation drills together with everyone on the plant premises including people from affiliate or partner companies.

Our plants will continue to conduct these security and disaster prevention drills to ensure a safe and secure plant for the entire local community.



Comprehensive Disaster Prevention Drill, Earthquake Simulation (Matsusaka Plant)



Kawasaki Plant

Address	10-2 Ukishima-cho, Kawasaki-ku, Kawasaki City, Kanagawa Prefecture
Number of Employees	232 (as of March 31, 2022)
Major items produced	Inorganic chemicals, organic chemicals
Acquired certifications	ISO 14001 (May 2007) ISO 9001 (July 2001)



Joint Disaster Prevention Drill with Neighboring Business Sites in the Ukishima District (Kawasaki Plant)

Kawasaki Plant is continuing groundwater purification treatment as a result of contamination from a leak of 1,2-dichloroethane in 1982.



Shigeru Suenaga
Plant Manager
Kawasaki Plant

Message from the Plant Manager

Kawasaki Plant mainly produces fine chemical products, such as our next-generation low GWP fluorine-based foam blowing agent HFO-1233zd (E); our next-generation fluorinated solvent HFO-1233zd (Z), which offers both excellent environmental performance and high cleaning performance; pharmaceutical intermediates; photoresist materials; and lithium-ion battery electrolytes.

We actively promote 3R (Reduce, Reuse, and Recycle) activities for the byproducts produced during the manufacturing processes of these products by reclaiming or recycling flammable waste oil and recycling sludge. Kawasaki Plant has reduced the amount of final waste disposal by more than 90% compared to FY2000. These environmental activities have been recognized by the city of Kawasaki, and Kawasaki Plant has been certified as a business site taking environmental action, as defined by the city's bylaws.

Kawasaki Plant is a business located in a petrochemical complex handling a wide range of hazardous materials that is stipulated as a special disaster prevention area. Therefore, we strive to prevent accident and disasters through security and disaster prevention activities, from specific disaster prevention drills at each business site to all-inclusive disaster prevention drills carried out with all related parties.

Considerations about the environment and safety will always be necessary. Kawasaki Plant will continue to strive in environmental and safety efforts in the future.



Matsusaka Plant

Address	1521-2 Okuchi-cho, Matsusaka City, Mie Prefecture
Number of Employees	297 (as of March 31, 2022)
Major items produced	Automotive safety glass Architectural and automotive float glass Architectural fabricated glass
Acquired certifications	ISO 14001 (April 2000) ISO 9001 (November 2003) IATF 16949 (June 2018)



Integrated Office Comprehensive Disaster Prevention Drill (Matsusaka Plant)

Matsusaka Plant is continuing groundwater purification treatment after discovering groundwater containing arsenic and lead in 2002 and groundwater containing fluorine in March 2020.



Masaaki Kawase
Plant Manager
Matsusaka Plant

Message from the Plant Manager

Matsusaka Plant manufactures flat glass using the world's only duplex equipment capable of employing a consecutive double-sided polishing method. We also manufacture fabricated glass for automotive and architectural applications. Because the production of glass consumes large amounts of energy and resources, Matsusaka Plant has long been committed to environmental conservation activities. All employees, including those of our business partners, are in-

formed of our environmental policy, and are working to achieve the environmental goals for our plant, departments, and individuals.

Matsusaka Plant regards energy conservation and the reduction of greenhouse gases to be critical medium- and long-term issues. To achieve carbon neutrality and the SDGs, we are making improvements by reducing loss, installing energy-saving equipment as part of major renovations, and improving operational techniques. Amidst the difficulty of disposal in Japan, we continually aim to reach higher levels of waste reduction, as well as make efforts to recover valuable commodities from waste, one example of which is recycling almost all the waste glass we produce. Matsusaka Plant has also installed equipment that processes wastewater and ensures concentrations far below the values set in local agreements to provide safety and security to the region.

Each of our employees is continually working to achieve growth and improvement, based on our philosophy, “Creating a Better Future Through *Monozukuri*.” We will continue to appreciate and contribute to local communities and work to make our plant safe and happy.

The Sakai Manufacturing Site suspended flat glass production in March 2022 as part of our efforts to restructure our glass business.