Responsible Care Activities

N.E. CHEMCAT emphasizes Responsible Care (RC) activities as one of its 16 key drivers for achieving Vision 2030 and is actively practicing them.

RC Activities

RC is a voluntary initiative for companies that handle chemicals to ensure environmental protection, health and safety throughout the life cycle of their chemical products, from development, manufacturing, and distribution, to use, final consumption and disposal and to publicly share the results with society while fostering proactive dialogue and communication.

RC activities are currently being promoted by chemical industry associations in more than 70 countries worldwide. In Japan, the Japan Chemical Industry Association (JCIA) is responsible for these activities. Our company supports the purpose of RC activities and, aiming to deepen societal trust and contribute to a sustainable society, we have been participating in meetings of the Responsible Care Committee of JCIA since FY2020.

In addition, our company considers environmental, safety, and health considerations throughout the entire product life cycle as top priorities, so we have established a Responsible Care Policy and are actively implementing it, which includes items related to security, disaster prevention, and logistics safety.

Responsible Care®
OUR COMMITMENT TO SUSTAINABILITY

Responsible Care Policy

The company acknowledges that the environment, safety, and health are the most important tasks and will make effort to engage in the following initiatives as our voluntary and continual Responsible Care activities:

1. We will make efforts to reduce the environmental loads of our products and to conserve the environment throughout their life cycles from their development to disposal.
2. Based on the principle of "Safety is the highest priority," we will strive to ensure the safety of all persons engaged in our corporate business activities and local communities with the aim for zero accident and zero injuries with upmost efforts in creation of a safe work environment and security management of the facility.
3. We will check the safety of chemical substances that are handled in raw materials, intermediate products, and finished products, provide information on their appropriate handling, and give consideration to the safety and health of all related persons, including our employees, logistics personnel, and customers.

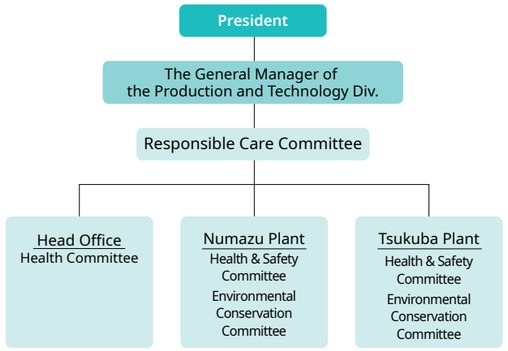
We will disclose the efforts of our initiatives to the society and endeavor to engage in appropriate communication with our stakeholders.

RC Promotion System

We have established an RC Committee to carry out RC activities.

In FY2024, we revised the organizational structure to enhance effectiveness. As a result, under the new company-wide RC Committee, the structure has transitioned to one where the Safety & Health Committees, Health Committees, and Environmental Conservation Committees at each plant take the lead in conducting RC activities.

RC Promotion System



RC Management System

N.E. CHEMCAT has adopted the Responsible Care Management System (RCMS) to promote the company's RC activities. The RCMS satisfies the requirements of ISO 14001 and OSHMS (ISO 45001), with activities clarified for each management practice code.

RC Activities (Six Management Practice Codes)

Code 0 Management system		
Code 1 Environmental protection	Code 2 Process safety and disaster prevention	Code 3 Occupational health & safety
Code 4 Distribution safety	Code 5 Chemicals and product safety	Code 6 Dialogue with society

RC Audit System

Based on the RCMS, RC audits are conducted annually at each plant.

Environmental Initiatives

Every company has a social responsibility to be proactive in its efforts to protect the global environment. N.E. CHEMCAT seeks to minimize environmental impact in all processes of its business activities.

Environmental Management

Guided by our corporate philosophy, which is to "fulfill corporate social responsibilities and seek to coexist with the environment and society around us," we actively engage in environmental protection activities through our business under our Responsible Care Policy.

Promotion System for Environmental Management

We work to reduce environmental impact under the Responsible Care Policy.

Each plant has established an Environmental Conservation Committees, chaired by the general manager, to carry out initiatives related to environmental protection and chemical substance management. Company-wide progress with these initiatives is reported to and overseen by the company-wide RC Committee, which is chaired by the General Manager of the Production and Technology Div.

We also have an Energy Management Committee that is engaged in CO_2 reduction and energy conservation.

Environmental Management System

N.E. CHEMCAT has obtained ISO 14001 environmental management system certification, and the company's system is constantly being enhanced. We have also prepared an environmental manual, and conduct environmental activities as part of daily operations.

Business Sites with Environmental Management System Certification

ISO14001:2015	Numazu Plant, Tsukuba Plant

Environmental Education

In addition to providing employees with our environmental manual, we conduct education and training to improve employee environmental awareness and to comply with relevant environmental laws and regulations.

Major Environmental Education Programs in FY2024

Education and Training Programs	Plant
Environment Month (Message from the President)	Company-wide
Internal auditor course	Numazu/Tsukuba
Environmental safety patrol	Tsukuba
High pressure gas (LNG) leak training	Tsukuba
Chemical leak and emergency shutoff valve training	Numazu/Tsukuba
Chlorine gas leak training	Numazu

Initiatives to Reduce Environmental Impact

Promote Energy Conservation

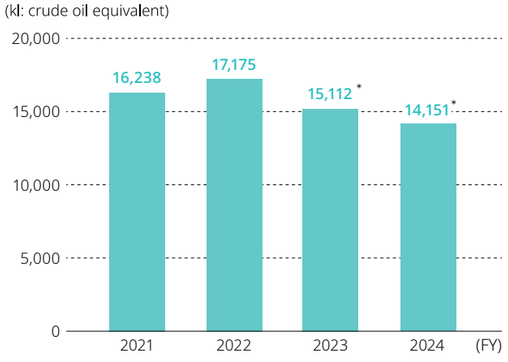
Our Energy Management Committee promotes company-wide energy plans, including the adoption of new energy-saving technologies.

We have also positioned dedicated efforts to reduce environmentally hazardous substances and prevent environmental accidents and occupational accidents and injuries in all business activities as one of the 16 key drivers to achieve Vision 2030.

In FY2024, we worked to conserve energy by implementing plans to improve production processes and upgrade deteriorated facilities.

Annual Energy Consumption

(kl: crude oil equivalent)

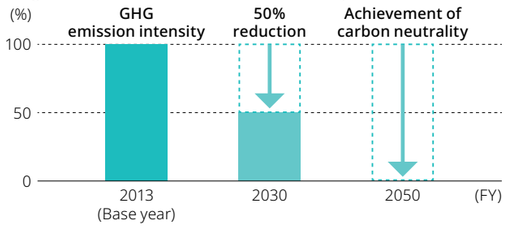


*The calculation method changed starting in FY2023 due to revisions to the Energy Conservation Act

Target to Reduce Greenhouse Gas Emission Intensity

We have set a target to achieve a 50% reduction in our greenhouse gas (GHG) emission intensity by 2030, compared to the 2013 level. GHG emissions are considered to be the cause of global warming, and we are pursuing initiatives to reduce them.

Target to Reduce GHG Emission Intensity

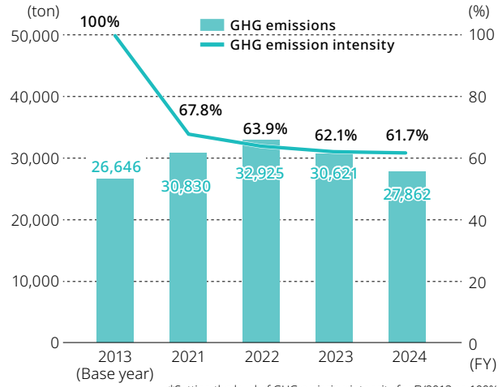


Environmental Initiatives

Initiatives for Target Achievement

- Energy conservation and loss reduction measures for electricity and liquefied natural gas (LNG) use (installation of LED lighting and higher-efficiency air conditioning equipment)
- Adoption of highly energy-efficient equipment and technology
- Improvement in development and production efficiency
- Adoption of renewable energy

Annual GHG Emissions and Emission Intensity*

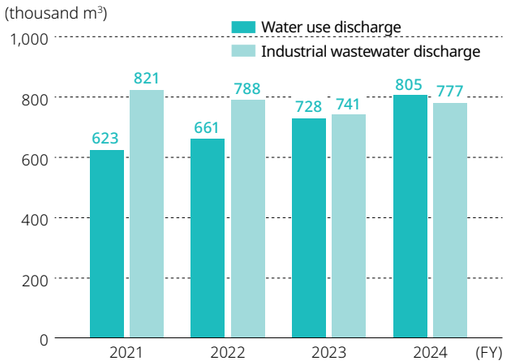


*Setting the level of GHG emission intensity for FY2013 as 100%

Effective Water Use

We strive to minimize water usage by utilizing water sources (well water, municipal water, industrial water) suited to regional characteristics and specific purposes. In addition, some wastewater is reused for rooftop sprinkling and other purposes.

Annual Water Use and Industrial Wastewater Discharge

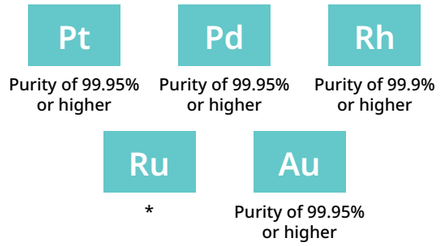


Effective Resource Use

Precious Metal Recycling

Platinum (Pt), palladium (Pd), rhodium (Rh), ruthenium (Ru), and other precious metals can be found in spent catalysts. Since they are important resources, N.E. CHEMCAT has its own facilities for recovery and refining of these metals. High-quality precious metals can be separated, recovered, and refined using appropriate technology. This is true even when the post-use precious metal catalyst contains multiple precious metal types, additives, and/or toxic substances that accumulate during use.

Each metal is recovered with a purity of 99.9% or higher purity as shown below.



*Ruthenium is recovered as ruthenium chloride

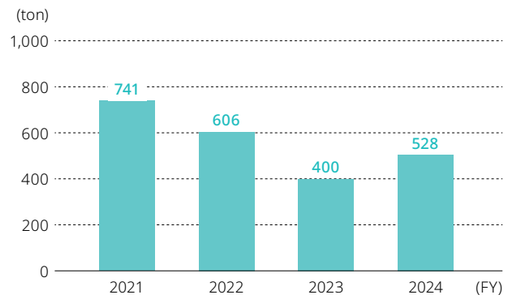
We are developing new adsorbents and further improving other recovery technology to enable more efficient precious metal recovery.

Waste Management Initiatives

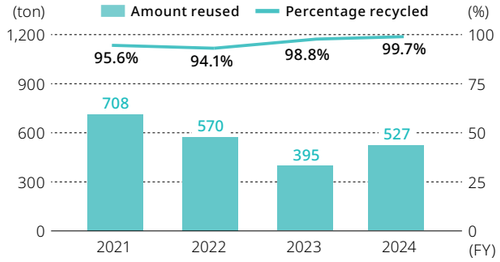
Wastewater sludge accounts for the largest volume of waste emitted by the company. In order to reduce this waste, we have been enhancing our production processes and updating equipment and machinery.

The recycling rate for FY2024 achieved the target of 99%. We will continue to maintain this high recycling rate of 99% while further promoting the effective utilization of waste and resource circulation.

Annual Industrial Waste Generation



Amount and Percentage of Industrial Waste Reused and Recycled



Management of Chemical Substances

Along with managing chemical substances handled internally, we are promoting chemical substance management for all raw materials and products used in our processes from design to manufacturing and delivery.

Compliance with Chemical Substances Regulations

N.E. CHEMCAT complies with all relevant laws and regulations including Japan's Act on the Regulation of Manufacture and Evaluation of Chemical Substances (Chemical Control Law), Act on the Assessment of Releases of Specified Chemical Substances in the Environment and the Promotion of Management Improvement (Chemical Management Law), and Industrial Safety and Health Act. The appropriate management procedures are stipulated in our Chemical Substance Management Regulations, and chemicals are being properly managed accordingly.

Furthermore, our company complies with chemical substance management regulations in various countries, including the REACH regulation, and implements proper chemical substance management from a global perspective.

We have established an information communication system throughout the entire supply chain to ensure the safety and legal compliance of products destined for overseas markets.

Management of Chemical Substances Contained in Products

For chemical substances contained in products, we have established control standards for each phase of the supply chain (1. purchasing, 2. manufacturing, and 3. delivery), and are working to ensure appropriate management throughout the supply chain.

To manage chemical substances contained in products throughout the supply chain, it is essential to manage chemical substances contained in products and intermediates converted from chemicals (raw materials).

Starting from the design and development stage of our products, we check for chemical substances contained in our supply chain and consider whether they are subject to legal regulations. Based on our findings, we implement product and process design that allows for managing chemical substance volume and preventing contamination.

Biodiversity Initiatives

Our company, which operates in Numazu City, is working to protect the water environment as a participant of the Kano River System Water Quality Conservation Council, which works to promote water quality and environmental conservation in the Kise River, a tributary of the Kano River, and other rivers that flow into it. In FY2024, the council conducted activities that included aquatic life observation events, cleanup and beautification events, and environmental lectures on biodiversity and invasive species. By belonging to the organization and supporting its activities, we protect the water quality of the Kano River system, which is home to many organisms such as fish and birds, and contribute to biodiversity conservation.

Supply Chain and Management of Chemical Substances Contained in Products