

Annual Report for Fiscal 2024

(April 1, 2024 - March 31, 2025)

The High Pressure Gas Safety Institute of Japan (KHK)

1. Business Environment and Overview of Operations

To promote GX (green transformation) toward carbon neutrality by 2050, the national government has been advancing various policies and legal frameworks.

In May 2024, it enacted the Act on Promotion of Supply and Utilization of Low-Carbon Hydrogen and its Derivatives for Smooth Transition to a Decarbonized, Growth-Oriented Economic Structure (Hydrogen Society Promotion Act) and the Act on Carbon Dioxide Storage Business (CCS Business Act). In February 2025, the Cabinet approved the “GX2040 Vision,” outlining the direction for decarbonization and industrial policy toward 2040, the “7th Strategic Energy Plan,” which provides guidance for long-term energy policy, and the “Plan for Global Warming Countermeasures” under the Paris Agreement.

To grasp the situation surrounding KHK and to respond promptly to the maintenance of safety, we strengthened cooperation with relevant domestic and international organizations and improved technical standards, and in February 2025, we established two new teams—the "Hydrogen and its Derivatives Safety Technology Support Team" and the "GHG Verification Project Promotion Team"—to reinforce the organizational structure.

In the field of high-pressure gas safety, in addition to steadily carrying out tasks such as inspection and certification operations, statutory training, and national examinations, we conducted surveys under the Certified Advanced Safety Implementer system established by the Revised High-Pressure Gas Safety Act that came into effect in December 2023. Also, in fiscal 2024, the transition of all statutory training courses (excluding practical skill tests and practical training) to online instruction was completed, and the course content was improved concurrently.

2. Overview of Financial Statements for Fiscal 2024

(1) Balance Sheet

Assets	(As of March 31, 2025)	
	2024	2023
	Million Yen	Million Yen
Current assets	3,324	3,669
Fixed assets	5,989	5,628
Tangible fixed assets	896	914
Intangible fixed assets	510	440
Investments	4,583	4,274
Total	9,312	9,298

Liabilities/Capital	2024	2023
	Million Yen	Million Yen
Current liabilities	1,261	1,372
Fixed liabilities	2,795	2,736
Reserve	5,189	5,042
Profit for the term	66	146
Total	9,312	9,298

(2) Statement of Profit and Loss

Expenditure	(From April 1, 2024 to March 31, 2025)	
	2024	2023
	Million Yen	Million Yen
Ordinary expenditure	4,411	4,479
Operating expenditure	4,411	4,479
Extraordinary loss	1	1
Corporate taxes, etc.	1	1
Profit for the term	67	146
Total	4,479	4,627

Income	2024	2023
	Million Yen	Million Yen
Ordinary income	4,479	4,626
Operating income	4,413	4,557
Non-operating income	66	69
Extraordinary income	0	0
Total	4,479	4,627

3. Overview of Each Activity

3-1. Inspection, Examination and Accreditation

(a) Pre-Assessment of Accredited Completion/ Safety Inspection Executor

This pre-assessment undertaken by KHK is part of the statutory service related to the Ministerial approval of accredited completion inspection executor and safety inspection executor.

Class 1 high pressure gas producers who obtained Ministerial approval as a result of this pre-assessment can replace completion inspections or safety inspections that are conducted by prefectural or municipal governments with self-inspections by the approved producers themselves. When the self-inspections are conducted, the results shall be submitted to jurisdictional prefectural or municipal governments.

Number of pre-assessments (Due to legal amendments, abolished in 2026)

	2024	2023
Accredited completion inspection executor and Accredited safety inspection executor	4	5
Super accredited completion inspection executor and Super accredited safety inspection executor	1	5

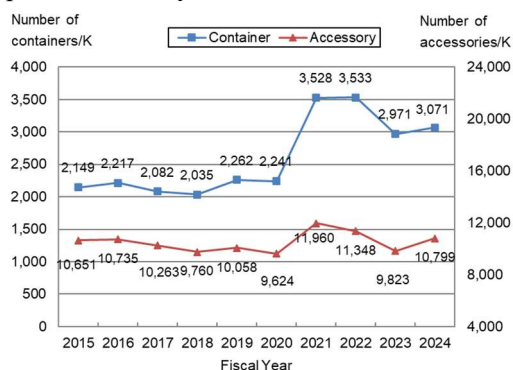
(b) Inspections for Pressure Equipment

The High Pressure Gas Safety Act (hereinafter referred to as “HPG Act”) stipulates that the person who has manufactured/ imported a container or accessory shall apply for the Container/Accessory Inspection. We at KHK conduct these inspections.

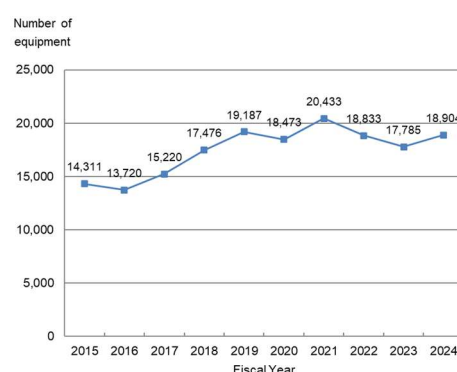
In addition, for preventing explosions or other accidents, the act defines "equipment for high pressure gas production (including storage tanks) "which particularly requires "inspections of its design, material quality, and the process of its manufacturing", as "Designated Equipment." KHK undertakes mandatory inspections of such Designated Equipment at each manufacturing process.

KHK undertakes technical assessments in advance to obtain Ministerial special approval, and also offers services for certification and examination as a part of its optional activities.

In fiscal 2024, the number of applications for inspection of containers increased by 3.4% and that of accessory equipment increased by 9.9% compared to the previous fiscal year respectively. And the number of applications for inspection of Designated Equipment increased by 6.3% compared to the previous fiscal year.



Number of Container/Accessory inspections



Number of Designated Equipment Inspections

- (c) Examination of Liquefied Petroleum Gas (hereinafter referred to as “LPG”) alarm, etc.

Number of examination		
	2024	2023
LPG leak alarm and bulk gas leak sensor	2,352,577	2,373,123
LPG incomplete combustion alarm	20,360	21,620
LPG sensor	1,380	1,676

3-2. Education

(a) Seminars

During fiscal 2024, KHK held various seminars related to high pressure gas as below; on-site lectures corresponding to the needs of each business facility, safety seminars (such as basic lectures on high pressure gas and seminars on relevant law and regulations), seminars for high pressure gas safety executors (such as safety inspection seminars), and various seminars corresponding to the local needs.

(b) Publications

KHK publishes books related to high pressure gas safety such as HPG Act, technical standards, and textbooks for training. During fiscal 2024, KHK published a total of 128,127 copies of books.

3-3. Assessment and Registration System

(a) Assessment and Registration of Quality Management System

Since being accredited by the Japan Accreditation Board (JAB) as a quality management system certification body in 1994, the KHK ISO Registration Center (KHK-ISO Center) evaluates quality management system for operators in accordance with the ISO 9000 series standards, and manages registration and publication of registered organizations. In June 2000, the Center started evaluating and managing registration and publication of registered organizations of the medical device quality management systems, which requires highly technical knowledge among quality management system based on ISO13485. As of the end of fiscal 2024, the number of registrations stands at 681.

(b) Assessment and Registration of Environmental Management Systems

For assessment and registration of environmental management systems (ISO14001), the Center became a JAB-accredited certification body in 1996. As of the end of fiscal 2024, the number of registrations stands at 425.

(c) Assessment and Registration of Occupational Health and Safety Management Systems.

In March 2000, the Center began evaluating and managing registration and publication of registers for organizations of occupational health and safety management systems based on OSHA18001. In July 2018, the Center initiated management based on newly established ISO 45001. As of the end of fiscal 2024, the number of registrations stands at 30.

(d) Assessment and Registration of Food Safety Management Systems

Taking advantage of the framework of quality management, environmental management, and occupational and health management systems, in 2011 the Center started managing registration and publication of registers of organizations based on ISO22000 series as a JAB-accredited body. As of the end of fiscal 2024, the number of registrations based on ISO 22000 stands at 7.

3-4. Measures to Promote LPG Consumer Safety

The Liquefied Petroleum Gas Safety Commission operates with contributions from 17 LPG-related organizations, 4 related ministries/agencies, 2 consumer organizations and KHK. In partnership with the Gas Safety Office of Commerce, Distribution and Industrial Safety Policy Group, METI, the commission performed the following safety campaigns during fiscal 2024.

(a) LPG Consumer Safety Campaign

Prepared and distributed LPG safety guides and posters, and advertised in magazines, while provided assistance to safety activities undertaken by prefectural LPG associations.

(b) LPG Consumer Safety Promotion Conference

At the event, the commission offered commendations for LPG retailers and related operators including individuals with the 'METI Minister's Secretariat, Director-General for Commerce, Distribution and Industrial Safety Policy Award,' 'KHK Chairman's Award,' and 'Liquefied Petroleum Gas Safety Commission President's Award,' respectively.

3-5. Development and Issue of Technical Standards

To promote safety in activities involving high pressure gas production, sale, consumption, and transportation, KHK establishes technical standards such as KHK Standards (KHKS) as well as reviews existing standards.

Committee organizations undertaking the preparation of technical standards are as follows:

- (a) Pressure Vessel Standards Committee
- (b) Transportable Container Standards Committee
- (c) High Pressure Gas Standards Committee
- (d) Refrigeration and Air-Conditioning Standards Committee
- (e) LPG Standards Committee
- (f) Fitness for Service Standards Committee
- (g) Seismic Design Standards Committee
- (h) Hydrogen and its derivatives Standards Committee

Each committee consists of committee members appointed from among experts who have relevant knowledge and experience in high pressure gas or LPG safety. In response to requests from the chairman of KHK, the Technical Committee decides basic policies for establishing the technical standards. The technical standards are then established by each standards committee section in accordance with the basic policies, and the development and issue procedures maintain fairness and openness as the fundamental rule.

During fiscal 2024, two standards were established and one standard was abolished. Additionally, 24 standards were revised.

3-6. Statutory Training

By HPG Act, high pressure gas producers are required to establish a safety management team consisting of members with a designated high pressure gas production safety management certificate, depending on the type and scale of processing equipment and the type and volume of gas produced. To train certified personnel, KHK offers lectures on each certificate type, and retraining for existing members of safety management teams.

In addition, KHK also provides training courses for the following certificates: high pressure gas sales safety chiefs required at specified high pressure gas dealers, transportation supervisors required for transportation of specified amount of specified high pressure gas, and specific high pressure gas operation safety chiefs required for storage and consumption of specified high pressure gas beyond the

designated capacity.

As for the activities related to the Act on the Securing of Safety and the Optimization of Transaction of Liquefied Petroleum Gas (hereinafter referred to as “LPG Act”), KHK offers the following courses: training and retraining of LPG installation engineers for LPG piping facilities used for general consumption, retraining of retail operation chiefs, training and retraining of LPG filling operators, as well as training of safety operators and inspectors of facilities designed to consume LPG.

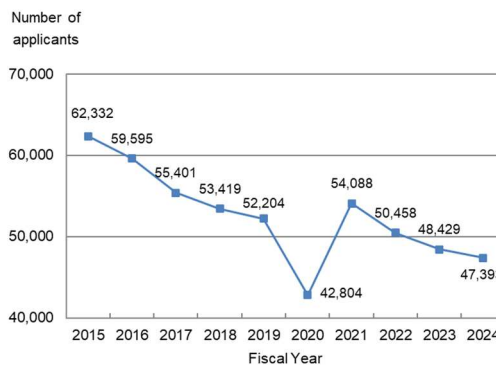
Number of applicants for statutory training

	2024	2023
Qualification Training	39,661	43,022
Re-training (Compulsory training)	40,233	42,226
Total of Statutory training	79,894	85,248

3-7. National Qualification Examination

HPG Act and LPG Act stipulate that the Minister of Economy, Trade and Industry or prefectural governors must be responsible for conducting the high pressure gas production safety management examination, the high pressure gas sales safety chief examination, and the LPG installation engineer examination, depending on the classification of examinations.

However, the actual implementation of such examinations was transferred to KHK from the Minister of Economy, Trade and Industry and prefectural governors. The total number of applicants for such examinations in fiscal 2024 was 47,393, which was a decrease of 2.1% compared to 48,429 from the previous fiscal year.



Number of applicants for National qualification examinations

3-8. Research & Development and Commissioned Studies

(a) The Research and Development Center

The Research and Development Center at KHK owns testing machines such as tensile/fatigue tests of materials, as well as hydraulic fatigue/explosion tests of pressure equipment including transportable containers, undertaking research and development to enhance high pressure gas safety. In addition, KHK are working on researches commissioned by the government and incorporated administrative agencies.

In fiscal 2024, the Center conducted 15 studies commissioned by private companies, etc.

(b) Commissioned Studies

KHK conducts research and other projects commissioned by the government and other entities.

In fiscal year 2024, it undertook a total of 7 projects and conducted studies.

3-9. Collection and Offering of Information, Technical Exchanges

(a) Collection of Accident Information

Acting on a commission by METI, KHK compiles a database of high pressure gas and LPG-related accidents and conduct a statistical analysis.

(b) Organization of Various Conferences and Conventions

The notable conferences and conventions KHK organized during fiscal 2024 include the following:

➤ National Conference of High Pressure Gas Safety (Tokyo, October 2024)

The conference, which takes place every October, is organized as a part of the annual high pressure gas safety promotion week, hosted by METI in conjunction with KHK. Each year, top-rated plants of safety, persons who have rendered distinguished safety service and excellent production safety managers are awarded in honor of their continuing hard work, support, and resulting outcomes in preventing high pressure gas-related accidents.

➤ Seminar on Lessons from Accidents and Safety Management Technology

This seminar is held at the venues as well as delivered online live and on demand.

◆ Part of Safety Management Technology (Tokyo, September 2024)

This seminar is for the accredited completion and safety inspection executors and the personnel of three management divisions (equipment, operation, and safety), including those at headquarters management level, of high pressure gas producers at industrial complexes, and it is organized to provide a place of information provision, information exchange, and discussions related to high pressure gas producing equipment, their operations, and safety management activities.

◆ Part of Lessons from Accidents and Safety Measures (Tokyo, September 2024)

The high pressure gas producers that actually caused accidents explained their experience and post-accident efforts on safety measures so that seminar participants could make use of the information that would be helpful for their future voluntary safety activities, including lessons from accidents and preventive measures.

➤ High Pressure Gas Equipment Manager Meeting (Tokyo, October 2024)

The meeting is organized annually for the purpose of informing high pressure gas equipment personnel (applicants for Designated Equipment Inspection) of question and answers about material, design, welding, and structure-related issues in order to achieve consistent applications across varying issues.

➤ Hydrogen Seminar (Online on demand, February 2025)

The seminar was organized to provide hydrogen-related people with a wide range of the latest trends in hydrogen, including institutional and technical aspects, in view of the realization of a hydrogen-based society.

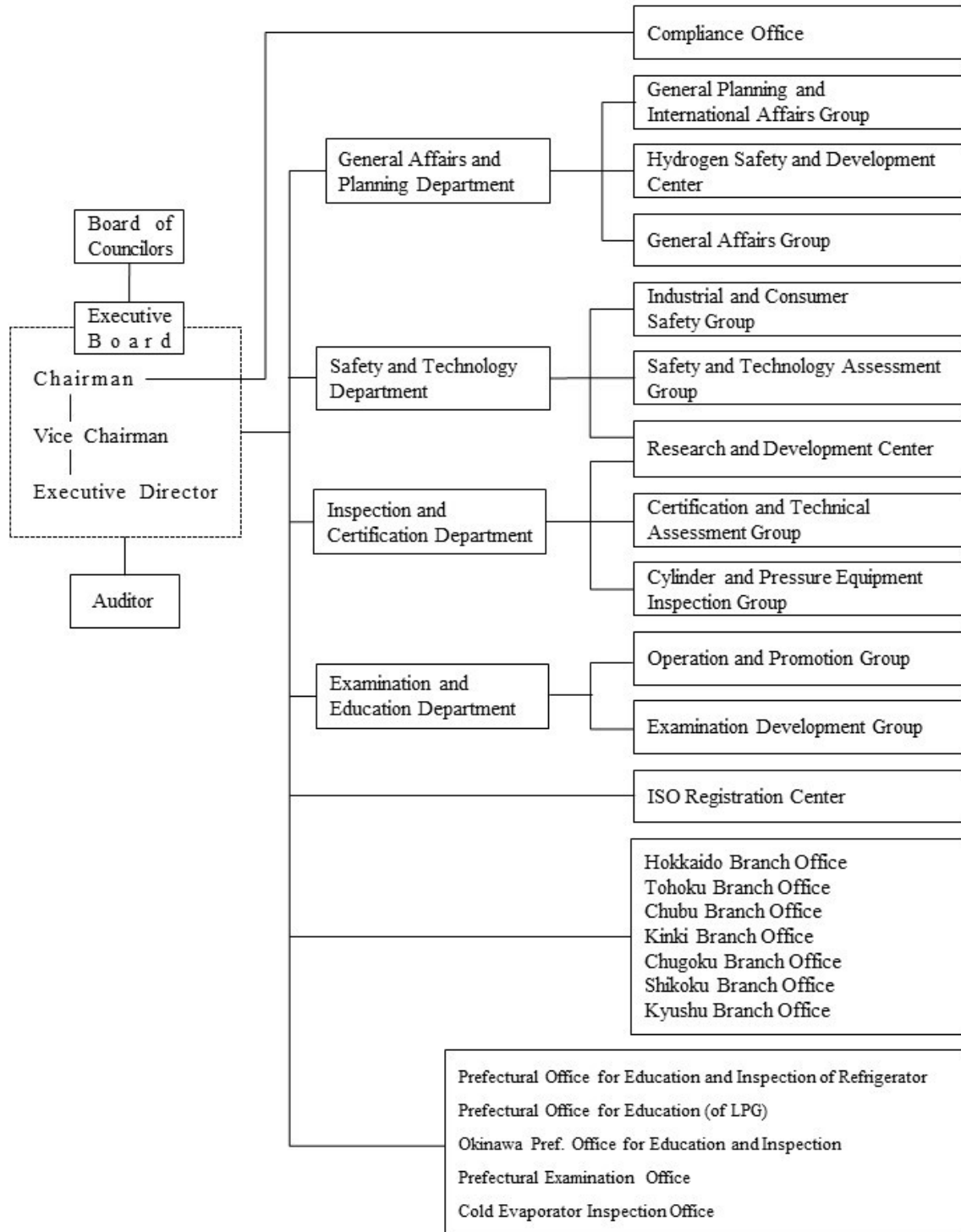
(c) International Technical Exchange

KHK participate as a delegate to online conferences organized by the American Society of Mechanical Engineers (ASME), and also has established good relations with Korea Gas Safety Corporation and Industrial Safety and Health Association of Taiwan.

4. Organization
4-1. Organization Chart

(January 1st, 2023)

Organization Chart of The High Pressure Gas Safety Institute of Japan



4-2. Membership Status

Types	March 31, 2025	March 31, 2024
Companies	820	831
Organizations	189	190
Individuals	83	88
Supporters	35	36

Contact for inquiries related to this document

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