

Health and Safety

Risk Management

Establishment of an Integrated Control System

SK Gas has established an enterprise integrated control system to quickly identify and prevent SHE risks and issues. The system allows health and safety managers to access comprehensive safety and environmental information through videos and dashboards. It also enables real-time monitoring of business sites and centralized management of facilities for early detection of potential hazards. The SHE control room supports swift decision-making from an integrated perspective on identified issues.

[Enterprise Integrated Control System]



1) Digital Intelligence Platform

Emergency Response System and Emergency Drills

Each business site operates a 24-hour surveillance system for immediate response to emergencies, ensuring rapid information dissemination to prevent large-scale accidents. Upon accident, information is communicated to the responsible department, control room, and the SHE team via the emergency contact network, and the corresponding response procedures are initiated based on the designated emergency response level.

Through external reporting, nearby public institutions, fire departments, and emergency services are notified to minimize potential impact on the local community. Emergency procedures and response organizations are established and operated based on predefined scenarios by accident type, with continuous measures to prevent reoccurrence.

In addition, when a serious risk is present, procedures are in place for worker evacuation, mitigation of hazardous factors, rescue of injured persons, and prevention of secondary damage. Emergency drills tailored to each business site are conducted regularly to enhance on-site response capabilities.

[Emergency Drill Details]

Business Site	First Half of the Year	Second Half of the Year
ECO Hub	• Electric vehicle fire response drill • Confined space rescue drill	• Earthquake evacuation drill • Confined space rescue drill
Ulsan Terminal	• Indoor fire safety training (CPR) • Gas leak and fire explosion • Marine pollution response drill • Joint fire drill • Confined space rescue drill	• Environmental emergency response drill • Emergency response drill • Firefighting competition • Joint fire drill • Confined space rescue drill • Evacuation drill
Pyeongtaek Terminal	• Fire extinguisher use training • Confined space rescue drill • Off-hour emergency response drill • Emergency call response drill	• Off-hour emergency response drill • Confined space rescue drill • Emergency call response drill • Joint fire drill • MBR shutdown response training
G.Hub	• Fire drill (building fire) • Marine pollution response drill • Confined space rescue drill	• Fire drill (process fire) • Oil spill response drill • Confined space rescue drill

Hazardous and Risk Factor Management System

SK Gas clarifies management standards for hazardous work, identifies and improves on-site hazards, and operates an IT system to analyze risk-related data. Managers use these systems to monitor inspection results and corrective actions through a mobile app, and the data collected is analyzed and incorporated into SHE policies.

Identification and Mitigation of On-Site Risks

All business sites identify and improve hazardous factors across all tasks to ensure employee health and safety.

In 2025, an AI-based Job Safety Analysis (JSA) system was introduced and applied across all business sites. For areas requiring further improvement, the system will be enhanced in 2026 to elevate the level of risk assessment.

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SHE Management Diagnosis

SK Gas conducts thematic SHE management diagnostics with external experts and SK Group specialists to verify the safety management levels of its business sites.

SHE Performance Assessment

In 2025, SHE management levels were measured across all SK Group business sites to advance SHE management. The assessment measured 802 items on system completeness and process provisions across 17 SHE operational elements, and 188 items on implementation execution levels, clarifying the current status and deriving specific improvement plans. The measurement results scored an A grade (86 points), up 4 points from the previous year, a commendable achievement. However, as this reflects the outcome of establishing health and safety systems in 2025, the company plans to conduct on-demand diagnostics to enhance the execution of the established system and develop mid-to-long-term improvement plans with the goal of achieving an S-grade management level.

[Group SHE Performance Assessment Improvement Plan]

	Improvement Items	Description
Process Safety	- Process risk assessment - Pre-startup inspection - Management of change	- Addition of corporate image evaluation items - Improvement of pre-startup inspection items - Improvement of change management review process
Safety	Work permit management	- Addition of focus areas during work permit issuance - Addition of post-registration system for emergency work permits
Health Protective	- Protective equipment management - Health checkups	- Establishment of protective equipment management cycle/methods - Additional criteria for selecting health checkup agencies
Training	Improvement of the training system	- Addition of verification and implementation check of training - Addition of SHE training program satisfaction survey

SHE Management System Comprehensive Diagnosis

SK Gas conducts an annual comprehensive diagnosis of the SHE management system. Through joint inspections with external auditors, the company performs objective on-site verification, reviews related procedures and implementation documents, and conducts stakeholder interviews to spread safety awareness and improve SHE management levels.

In 2025, the diagnosis covered four categories, 15 assessment elements, and 568 indicators. The three business sites evaluated received an overall rating of Grade A (Good), consistent with the previous year. The focus is on practically implementing the improved system in the field, removing accident risks.

[Key Elements of SHE Management System Diagnosis]

Diagnostic Elements	Description
Education/Training	Verification of SHE competency requirements by organization/level, understanding of SHE procedures/ instructions, and evaluation of training effectiveness
Risk Assessment	Monitoring of process and equipment integrity, adequacy of protective measures, and implementation of corrective actions
Safe Work Process	Status of risk assessments, TBM (Tool Box Meeting) activities, work procedures, permit issuance and on-site execution, and information provided to field workers
Partner Management	Selection of qualified contractors, SHE plans, implementation of safe work processes, post-evaluations, budgeting of safety management costs, and shared growth programs

[Diagnosis Results of SHE Management System]

2023		2024		2025	
Grade	Score	Grade	Score	Grade	Score
A (Good)	84.2	A (Good)	81	A (Good)	85

Regular Inspection and Diagnostics

SK Gas conducts regular inspections to identify any defects that may cause unsafe conditions in equipment or lead to unsafe behaviors, and to confirm safety status. Each business site uses an inspection checklist specifying the inspection targets to evaluate the equipment's appearance, operational condition, and functionality. In particular, cycles such as planned, daily, and special inspections are set to identify and improve hazards and risks.

Additionally, to prevent industrial accidents, a regular diagnosis is conducted to comprehensively investigate and evaluate the SHE management system, the appropriateness of budget allocation, and the implementation status of hazard and risk identification and improvements. The SHE Unit oversees the business site SHE management level, aiming to enhance, supplement, and strengthen it to achieve a Global Top Tier standard.

The identified issues and improvement results discovered through regular inspections and diagnostics are monitored monthly at the business site, and the appropriateness and effectiveness of improvements are confirmed by reviewing the semi-annual monitoring status.

[Regular SHE Inspection and Diagnosis]



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Compliance Review of Health and Safety Regulations

In 2025, SK Gas jointly inspected compliance with health and safety regulations across all business sites with external specialized organizations to verify the roles, appropriateness of tasks, and implementation status of the company's dedicated SHE organization. SK Gas also reviewed the legality and appropriateness of management for facilities operated within ECO Hub headquarters.

The company also conducted a self-inspection to establish a safety, health, and environmental management system at the CEC (Clean Energy Complex) site and to identify legal deficiencies. A total of 25 SHE areas were reviewed, and areas for improvement were prioritized and addressed immediately. The progress of improvements based on the 2025 CEC site diagnosis results is reviewed monthly and reported to the head of business sites.

Expanded Risk Assessment Approach

Based on SHE Master Plan 1.0 established in 2021, the company has been strengthening SHE systems, and in 2025, an AAA (All Activity Analysis) was developed. Starting from 2026, based on this plan, the company intends to analyze the risks of all work activities at business sites beyond the existing established risk assessments, and improve vulnerabilities to mitigate management blind spots.

Identification and Improvement of Safety Blind Spots

SK Gas identifies and addresses safety blind spots by applying insights from domestic accident case analyses to field operations, helping detect areas that may have been overlooked in existing safety management scopes and prevent similar incidents. At the new CEC (Clean Energy Complex) business site, activities to continuously identify and improve risk factors are ongoing, including the installation of electric vehicle thermal imaging cameras.

Furthermore, safety blind spot diagnosis revealed that in new business sites, gas-based fire extinguishing agents leaks could cause suffocation accidents. In response, oxygen detectors were installed, allowing personnel to check whether there is sufficient oxygen without entering the fire extinguishing agent room, and alerts have been configured to trigger warning sounds in emergencies so that personnel can evacuate quickly.

Additionally, water quality at the water supply facilities of new business sites was tested; bacteria detected above standard levels were sterilized, and test certificates were obtained from a public health and environmental research institute. SK Gas continuously monitors and eliminates health and safety risks to prevent issues among employees.

[Thermal Camera for Electric Vehicle Fire Response]



[Oxygen Detector in Fire Extinguisher Room]



[Bacteria Non-Detection Certificate]

