

Responsible Care Activities

Daicel Group's Responsible Care

To practice the spirit of Responsible Care (RC), the Daicel Group established the Daicel Group Basic Policies for Responsible Care and is promoting across-the-board RC activities to contribute to the sustainable development of society.

Daicel Group's Basic Policies for Responsible Care

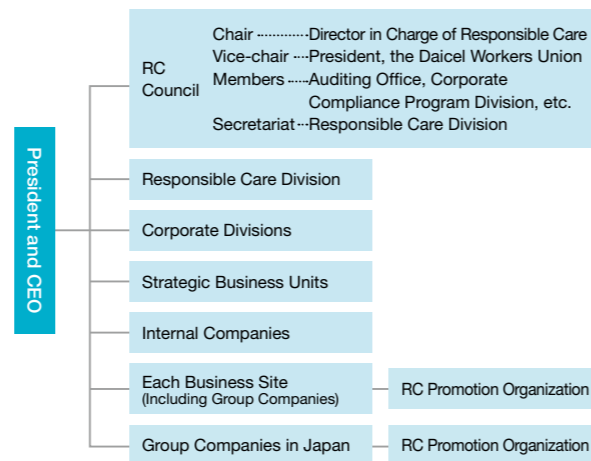
- In accordance with management policy, we will comply with laws and regulations and strive to safeguard the environment, health, and safety. For this purpose, we share specific implementation plans among all employees and put them into action.
- We will strive to continually improve environmental, health, and safety performance and the security of facilities as well as processes and technologies throughout the entire chemical lifecycle, from development to disposal, and inform society of the results of such efforts.
- We will further reduce our consumption of resources and energy and strive to reduce, reuse, and recycle waste.
- We will protect the environment and people's health and safety by driving continual improvement in chemical product safety and stewardship throughout the supply chain.
- We will practice risk-based chemical management throughout the entire chemical lifecycle, from development and production to use, consumption, and disposal and strive to strengthen our chemical management systems by continual improvement.
- We will influence the employees and the value chain stakeholders to promote the safe management of chemicals within their own operations.
- We will strengthen our stakeholder relationships by understanding and responding to stakeholder concerns and expectations about safer operations and products as well as openly communicating about our performance and products.
- We will put the Daicel Group's overall efforts into continually improving initiatives for the environment, health, and safety in order to meet stakeholder expectations.
- We will contribute to the sustainable development of society by developing and providing unique and innovative technologies and other solutions.
- We will promote biodiversity-friendly activities in order to pass on the wealth of nature to future generations.

Responsible Care Activities

The Daicel Group is implementing RC activities on the following fronts: Occupational Health and Safety, Process Safety and Disaster Prevention, Environmental Preservation, Chemical and Product Safety, Distribution Safety, and Communication with Society. The Daicel Group promotes these RC activities under the RC Council.

The council is chaired by a director placed in charge of RC by appointment by the president and CEO, who bears ultimate responsibility for RC activities. The council comprises the president of the Daicel workers union and heads of administrative divisions appointed by the Chairperson as well as the Responsible Care Division, which serves as the secretariat for the council. The council formulates basic policies and RC activity plans for the following fiscal year and conducts RC audits.

Diagram of Responsible Care Promotion System



A pre-assessment of new plans identifies diverse risks associated with all business operations, including R&D, production, consumption, and disposal. And assessment results are applied during thorough consideration of environmental, health, and safety issues.

Total Environmental, Health and Safety Assessment System

The Daicel Group operates a Total Environmental, Health and Safety Assessment System ("Total EHS Assessment System") as a means for evaluating risk in its business activities.

Targets, Results, and Assessments of RC Activities

	Boundary	FY2020/3 Targets	FY2020/3 Results	Assessment	
Environmental Preservation	Global warming countermeasures	Business sites of Daicel	Promote energy conservation to achieve the FY2021/3 targets set forth in the KEIDANREN's (Japan Business Federation) Commitment to a Low Carbon Society. Emissions totaled 1.08 million tonnes against the GHG emission target of 1.58 million tonnes for 2020 (Business as Usual basis).	Energy intensity improved by 1.1%.	◎
		Domestic Group companies	Reduce energy intensity by 1% or more from the previous fiscal year (based on calculation methods stipulated by the Energy Saving Act).	Failed to meet the target of reducing energy intensity by 1% or more.	△
	Waste reduction and recycling	Business sites of Daicel	Reduce final landfill indices to not more than 16% of levels recorded in FY2001/3 to achieve our FY2021/3 target ahead of schedule.	Reduced final landfill indices to 20%.	△
		Domestic Group companies	Maintain zero emission status at all Domestic Group companies.	Accomplished zero emission status at all Group companies.	◎
Occupational Health and Safety	Business sites of Daicel (including partner companies)	Aim for zero occupational accident (placing particular focus on preventing serious incidents, such as encounters with hazardous substances, heat stress and falling accidents).	23 occupational accidents (17 in the previous fiscal year) Compared to the previous fiscal year, heatstroke incidents decreased, but each of injuries from hazardous substances and falling increased slightly.	△	
		Utilize TRC branch offices at each plant to enhance the content of hazard simulation training.	Enhanced and strengthened training related to unique technologies and basic operations and hazard simulation training at TRC branch offices at each plant.		
	Domestic Group companies	Aim for zero occupational accidents (placing particular focus on preventing injuries due to encounters with hazardous substances and falls).	13 occupational accidents (9 in the previous fiscal year) Compared to the previous fiscal year, injuries from falling decreased.	△	
		Continue holding workplace safety meetings by, for example, grouping attendees by type of manufacturing operations. Continue to roll out activities aimed at learning from the lessons of the past.	Held safety meetings focused on the processing and assembly-style manufacturing. Confirmed lessons of the past and effectiveness of countermeasures.		
Process Safety and Disaster Prevention	Business sites of Daicel (including partner companies)	Aim for zero accidents involving fires, explosions, and leaks.	2 small fires and 8 leaks occurred		
		Systematically promote preventive measures against risks that may lead to accidents, the ability to deal with accidents, and measures to ensure the early resumption of product supply.	Reviewed risks that may lead to accidents, strengthened the system for responding to accidents, and prepared for the early resumption of product supply.	△	
		Enhance BCPs*1 for key products.	Strengthened the BCPs in accordance with BCP guidelines.		
	Domestic Group companies	Strengthen security measures in accordance with security guidelines.	Systematically strengthened access control at the gates of each business site in accordance with security guidelines.		
Aim for zero accidents involving fires, explosions, and leaks.		There were 4 small fires.	△		
Distribution Safety	—	Systematically address priority issues for each Group company.	Systematically addressed priority issues for each Group company.		
		Step up security measures at each Group company in accordance with security guidelines.	Stepped up consideration of security measures in accordance with security guidelines.		
	Prevent recurrence of logistics issues such as contact accidents at customer sites as well as shipping and delivery errors.	Strove to prevent recurrence of logistics issues such as contact accidents at customer sites as well as shipping and delivery errors.	○		
Chemical Safety Initiative	Response to REACH*2	Eliminate leaks of hazardous substances as well as shipping and delivery errors.	Decreased from the previous fiscal year.	○	
		Improve 5-year average energy intensity by at least 1% (based on the calculation method in the Energy Conservation Act).	Energy intensity did not improve by 1% or more.		
	Ensure a consistent response to REACH.	Responded steadily to REACH.	○		
	Initiatives to secure compliance with other chemical regulations	Remain apprised of the latest developments and trends in chemical regulations and act appropriately to secure responsiveness to such regulations.	Regularly researched information on the revision of chemical regulations in Japan and overseas while holding in-house meetings to share such information.	○	
	Management of chemical substance information	Register new chemical products with the D-CLik*3 database and update product information based on additional testing results.	Registered new chemical products with the D-CLik database and updated this information based on additional testing results.	○	
VOC*4	Maintain a reduction of VOC emissions by 40% or more from levels recorded in FY2001/3.	Reduced VOC emissions by 58% from levels recorded in FY2001/3.	◎		
PRTR*5	Maintain a reduction of PRTR substance emissions by 40% or more from levels recorded in FY2002/3.	Reduced PRTR substance emissions by 81% from levels recorded in FY2002/3.	◎		

Assessment criteria: ◎ → Succeeded by meeting or exceeding targets (100% or more) ○ → Nearly achieved targets (80% or more)
△ → Failed to meet targets (40% or more) × → Results fell far short of targets (less than 40%)

*1 BCPs (Business Continuity Plans) aim to minimize damage and ensure a swift restoration of operations should a business site be hit by an earthquake or other major disaster.
*2 REACH (Registration, Evaluation, Authorization and Restriction of Chemicals) mandate that producers must register their chemical products with the European Union and conduct safety assessments, restrict their use, and control permits for their use.
*3 D-CLik is a unique database developed by Daicel to manage chemical substance information.
*4 VOCs (Volatile Organic Compounds) include such well-known examples as toluene, xylene, and ethyl acetate.
*5 PRTR (Pollutant Release and Transfer Register) is a system with which business operators calculate the amount of chemical compounds emitted into the environment or transferred off-site for treatment or disposal during production, usage, or storage in Japan and also notify the government of these figures.