



The Daicel Group's Responsible Care Targets and Results

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Area	Fiscal 2013 Targets	2013 Results	Achievement rate*	Fiscal 2014 to Fiscal 2016 Targets	Fiscal 2014 Targets
Environmental Preservation	<ul style="list-style-type: none"> Reduce energy intensity by 1% or more from the previous fiscal year. Promote energy conservation to achieve fiscal 2020 targets set forth in Commitment to a Low Carbon Society. 	<ul style="list-style-type: none"> Reduced energy intensity by 3% from the previous fiscal year. Reduced CO₂ emissions by 4% year on year to 1.26 million tons. Promoted energy conservation in line with fiscal 2020 targets in the Commitment to a Low Carbon Society. 	○	<ul style="list-style-type: none"> Reduce energy intensity by at least 1% year on year. Promote energy conservation to achieve fiscal 2020 targets set forth in Commitment to a Low Carbon Society. 	Continue efforts to conserve energy in current processes and energy division (increase mixed fuel burning ratio for tires, energy-optimized operations at Aboshi Plant and Ohtake Plant), establish innovative energy-saving technologies (such as VRC).
	Prevent increase of landfill disposal of waste in order to achieve targets in the Keidanren Voluntary Action Plan on the Environment.	Total emissions of industrial waste were reduced, but landfill waste disposal expanded owing to an increase in plastic that is difficult to recycle.	×	Reduce landfill disposal waste and achieve zero emissions at all business locations.	Reduce difficult-to-recycle waste and promote reuse of resources.
Process Safety and Disaster Prevention	<p>Aim for zero accidents involving fire, explosions and leaks. (Finish implementing measures in notifications from Fire and Disaster Management Agency.)</p> <ul style="list-style-type: none"> Conduct risk assessments for earthquakes, tsunamis and liquefaction, and methodically improve anti-earthquake measures. Complete measures on schedule to install an emergency earthquake alert system, an employee's safety confirmation/emergency call system and satellite phones. Stockpile reserves of food, daily necessities and disaster equipment and materials as planned. Conduct Companywide disaster response drills in combination with on-site disaster drills. 	<p>Small fires and leaks occurred, but there were no major accidents again this year.</p> <ul style="list-style-type: none"> Conducted risk assessments for earthquakes, tsunamis and liquefaction, and methodically improved anti-earthquake measures. Installed on schedule an emergency earthquake alert system, an employee's safety confirmation/emergency call system and satellite phones. Stockpiled reserves of food, daily necessities and disaster equipment and materials as planned. Conducted Companywide disaster response drills in combination with on-site disaster drills. 	○	<ul style="list-style-type: none"> Achieve zero accidents involving fires, explosions and leaks. Continue efforts to enhance safety. 	Comprehensively inspect processes and facilities for the risk of fire and explosion caused by autoreactivity, substances that are dangerous when mixed, and physical-chemical degradation.
			○	<p>Strengthen responsiveness to large-scale wide-area disasters, such as a massive earthquake along the Nankai Trough.</p>	<ul style="list-style-type: none"> Assess risk of earthquakes, tsunamis and ground liquefaction, and methodically make seismic improvements.
Occupational Health and Safety	<p>Aim for zero occupational injuries</p> <ul style="list-style-type: none"> Strengthen 3S (<i>seiri</i> (tidying), <i>seiton</i> (putting everything in order) and <i>seisou</i> (cleaning)), hazard prediction and crisis-identification activities, including at partner companies. Take measures to prevent similar accidents from occurring and prevent human errors. 	Efforts were made to achieve the target of zero occupational injuries, but there was an increase in occupational injuries when non-regular work was performed. The number of occupational injuries increased by five to 19 incidents (requiring time off from work) compared with the previous fiscal year.	×	<ul style="list-style-type: none"> Aim for zero occupational injuries. Strengthen 3S, hazard prediction and crisis-identification activities, including at partner companies. Improve education and training to increase risk awareness. Strengthen safety management structure for trial operations and construction. 	<ul style="list-style-type: none"> Promote awareness and communications in the workplace by enhancing dialog through 3S, hazard prediction and crisis-identification activities. Create work procedure standards for both stable and unstable periods. Promote awareness during trial operations and construction work, and reinforce safety measures.
Distribution Safety	<ul style="list-style-type: none"> Aim for zero at-fault logistics accidents. Aim to halve logistics-related issues. 	<ul style="list-style-type: none"> Achieved zero at-fault logistics accidents. Overall improvement in logistics-related issues, but number was not halved. 	△	<ul style="list-style-type: none"> Aim for zero at-fault logistics accidents. Reduce logistics issues at partner companies (-30%/year compared with previous fiscal year). 	Continue working to eliminate logistics issues through integrated management with safety assurance groups and product accident prevention groups.
	Continue to survey and examine new energy conservation items in logistics.	Energy intensity was roughly the same as last year despite efforts including modal shift and round-trip use of containers.	△	Achieve at least 1% energy conservation in logistics annually.	Achieve at least 1% annualized energy savings in logistics by promoting modal shift and round-trip use of containers.
Chemical and Product Safety	Respond to REACH*1 regulations on schedule.	Finished registering products (with shipments of 100 to 1,000 tons annually) by the May 2013 deadline.	○	Precisely respond to chemical substance regulations, such as REACH, in countries around the world.	Prepare to register products (shipments of 1 to 100 tons annually) by the 2018 deadline.
	Aim to achieve medium-term target for 40% reduction in VOC emissions compared with the fiscal 2000 level.	VOC emissions increased by 15 tons year on year, for a reduction of 29% compared with the fiscal 2000 level, short of the medium-term target.	△	Reduce VOC emissions by 40% of the fiscal 2000 level.	Reduce VOC emissions by optimizing operating conditions.
	Aim to reduce emissions of PRTR substances by 40% (medium-term target) compared with the fiscal 2001 level.	Continuing from fiscal 2012, emissions of PRTR substances remained at least 40% lower than the fiscal 2001 level.	○	Set individual targets for each substance and work to reduce PRTR substances with high emissions.	Set individual targets for each substance and work to reduce PRTR substances with high emissions.
Dialog with Society	Report the outcome of Responsible Care activities taken by Group companies.	Occupational safety and environmental performance data for Group companies was disclosed in the CSR Report 2013 and on Daicel's website.	○	Proactively provide information about the Daicel Group's CSR activities at various opportunities.	Include in reports the guidance received from third-party assessors.

Other Group Company Responsible Care Targets and Results

Area	Fiscal 2013 Targets	2013 Results	Achievement rate*	Fiscal 2014 to Fiscal 2016 Targets	Fiscal 2014 Targets
Environmental Preservation	Set target to reduce energy intensity by 1% or more from the previous fiscal year's level, including overseas Group companies.	Did not reduce energy intensity by at least 1% year on year.	×	Reduce energy intensity by at least 1% year on year.	Reduce energy intensity by at least 1% year on year by aiming to deploy production and process innovations across Group companies.
	<ul style="list-style-type: none"> Avoid increase in landfill waste disposal volume. Continue 3R*2 activities for industrial waste. 	Landfill disposal waste volume did not increase. Efforts focused on recycling and reusing waste plastic and waste solvent.	○	Reduce landfill disposal waste and achieve zero emissions.	Promote 3R with crucial companies.
Occupational Health and Safety	<ul style="list-style-type: none"> Promote 3S, hazard prediction and crisis-identification activities. Share occupational safety data among other Group companies, horizontally deploy these activities, and prevent similar accidents from occurring. 	Improvement seen in 3S, hazard prediction and crisis-identification activities. Worked to share and cross-deploy occupational injury information to prevent reoccurrence of similar accidents.	○	<ul style="list-style-type: none"> Promote 3S, hazard prediction and crisis-identification activities. Share and cross-deploy information about occupational injuries among other Group companies to prevent similar occupational injuries from happening. 	<ul style="list-style-type: none"> Improve awareness and communications at workplaces by enhancing dialog through 3S, hazard prediction and crisis-identification activities. Aim to improve framework for cross-deploying information about occupational injuries at Group companies.
Process Safety and Disaster Prevention	<ul style="list-style-type: none"> Continue the administration of emergency response guidelines. Apply Total EHS Assessments to small-scale retrofitting plans and specification changes. 	<p>Updated organizational chart and ran disaster prevention drills in accordance with rules for emergency measures at each company.</p> <p>Confirmed implementation of Total EHS Assessment System for small-scale retrofitting.</p>	○	<ul style="list-style-type: none"> Continue to administer in line with rules for emergency measures. Conduct Total EHS Assessment System for small-scale retrofitting and specification changes. 	<ul style="list-style-type: none"> Continue to administer in line with rules for emergency measures. Strengthen Total EHS Assessment System.

*Achievement rate: ○: 100 to 70%; △: 70 to 40%; ×: 40 to 0%

What is...?

1) REACH: The Registration, Evaluation, Authorisation and Restriction of Chemicals is a European Union regulation that requires producers of chemical substances to register the chemical substances and provide data on their safety assessment, usage restrictions and usage authorizations.

2) 3R: This term refers to activities to reduce waste generation, reuse reusable resources and recycle resources.