

EHS100 Plan

Criteria for the results: ○:80% and more/△:50% and more/×:Less than 50%						
No	Category		Activities	Phase IV	Results	
	Overall Category	Subcategory		FY2018-2020		
1	EHS Management	Site EHS Managers	Site EHS management	Promote clarified objectives for management	△	
		Internal Auditing	Candidate of Inspection management and conduct of mutual joint inspection	Establish global inspection / audit system	○	
		Management System (MS)	Maintenance of third-party certification of MS	Enhance OHSMS system at all production sites and obtain EMS certification to R&D in Japan	△	
2	Legal Compliance and Self-management	Statutory Managers	Full implementation of responsibilities and powers	Establish compliance management procedure	○	
			Centralized management of statutory managers	Implementation of information sharing		
		Due Submission of Statutory Filings	Establishment of management procedures for statutory filings			
Action on Environmental Issues		Improved Information Disclosure	Reporting in line with global orders and/or obligation	Publish Sustainability Report once in a year(in Japanese / English)	○	
3.1	Countering Global Warming and Conserving Resources	Compliance with Kyoto Protocol	Compliance with Global Warming Solutions Law	20% CO ₂ reduction per ton production by 2020 vs. 2010	○	
				Report GHG emissions other than CO2 at all production sites CO2, CH4, N2O, HFCs, PFCs, SF6 (6 gases)	○	
				Renewable energy (50%)	×	
		Reduced Water Use	Reduction in pumping of groundwater, etc	Reuse drainage discharged into rivers (install drainage recycling facilities) in Japan	×	
		3Rs (Reduce, Reuse, Recycle) for Containers and Packaging	3R activities for containers and packaging	Promote voluntary standard of reduce, reuse, and recycle of container	△	
3.2	Management of Chemical Substances	Air Pollutants	Voluntary regulation of VOCs	Implement voluntary control standard of VOCs	×	
		Regulations	Chemical safety management	Optimize operation management in global by law, regulations and voluntary standard	×	
		Monitored Chemicals	Handling as voluntarily regulated "chemical substances"			
3.3	Prevention of Air, Water and Soil Pollution	Prevention of Water and Soil Pollution	Coexistence with neighboring communities	Maintain zero escape of emissions off-site	×	
		Reduction of CO ₂ Emissions at Nonproduction Sites	Implementation of energy saving activities by sales arm	20% CO2 reduction by 2020 vs. 2010 in non-production sites	○	
		Underground Facilities	Relocation of underground tanks and piping above ground	Relocate all underground facilities above ground or implement pollution prevention system at production sites worldwide	○	
		Effective Use of Water Resources	Reduction of water consumption	20% water reduction per ton production by 2020 vs. 2010	○	
3.4	Sensory Pollution and Response to Complaints	Prevention of Noise and Odors Outside of Facility	Establishment of voluntary standards and self control	Reduce risks of sensory pollution	○	
3.5	Waste Management	Emissions Reduction Program	100% recycling of industrial waste	Recycle 100% at all production sites	△	
			Promote reduction of industrial waste emission	20% emissions reduction per ton production by 2020 vs. 2010	△	
		Measures to Ensure Proper Disposal of Industrial Waste	Manifest management with strict control			
		Communication with Industrial Waste Collectors	Monitoring of all contractors at each plant	Audit and supervise legal compliance of contractors	○	
		Reduction of Toluene & Halogen-Based Organic Solvents in Production	Reduction control based on VOC regulation (benchmark year: 2000)	Reduce emissions of the item(by 50% from 2000 level) in Japan and Spain Plan to reduce emission and transport of other PRTR substances	×	
			Reduction control of organic solvents (benchmark year: 2000)			
4	Risk Management and Response to Accidents and Emergencies	EHS Risks	Risk assessment	Establishment of risk management system through EMS and OHSMS	○	
			Compilation of risk identification procedures			
			Procedures for implementation of hazardous/non-regular operations			
		Risk Diversification	Enhancement of risk management measures			
5	Development of Products and Technologies	Life Cycle Assessment (LCA)	Adoption and implementation of LCA for selected Takasago Products	Implement LCA (90% items of total production weight)	×	
		Promotion of SDGs-oriented R&D	Promotion of green chemistry	Promote Eco-friendly R&D considering green chemistry	○	
6	Facility Management and Vehicle Control	Facility Operation and Maintenance	Compilation of manuals (electronic and/or paper)	Ensure the operation in global	×	
		Facility Safety Inspections				
		Accidents Resulting in Bodily Injury	Equipment safety and management, education and training	Education and training of safety manual to the workers engaged in operation	○	
		Forklifts	Education and training	Familiarize safety driving procedure to employees and contractors	○	
		Installation and Renovation of Facilities	Induction and implementation of Failure Mode and Effects Analysis, etc.	Regulate the implementation of preliminarily assessment (ex. FMEA) in replacement or introduction of new facility or equipment	○	
7	Coexistence with the Community	Communications with Local Community	Appointment of liaison officer	Continue to promote activities through Global HR Communication platform	○	
			Community outreach	Each site continues to join in local activities	○	
		Corporate philanthropy	Fund-raising activity	Continue immediate support (donation etc.) for disasters	○	
		Volunteer Activities	Active use of volunteer leave program	Consider strategy for overseas	×	
8	Respect for Basic Human and Worker Rights	Child Labor	Minimum work age: 16 (no one younger to be hired)	Supplier Audit	×	
		Respect for the Individual	Elimination of discrimination	Continue to implement the following Charter of Corporate Behavior and Code of Conduct	○	
		Hiring of Disabled Workers	Creation of accessible workplace		○	
		Assessment of Suppliers	Dissemination of Takasago International Corporation Suppliers’ Code of Conduct	Periodical update of Supplier Questionnaire	○	
9	Education and Training Program	Education program to employee	Provide compliance training programs	Implement the program	○	
		Company introduction to new employee	Provide company introduction	Implement and review the program	○	
		Professional training programs to employee	Provide professional training programs	Implement the program	○	
		Provide safety training program to employee	Provide basic knowledge and training	Continue and improve the program	○	