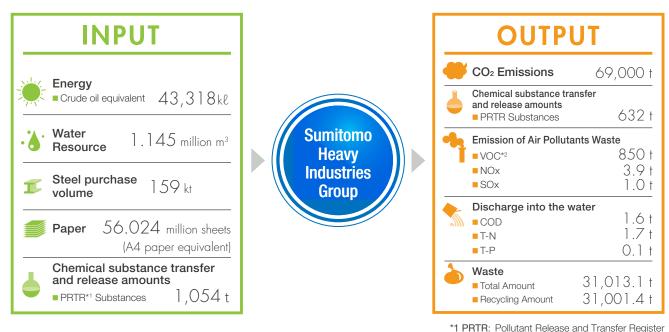
Environmental Objectives (Medium-Term Plan) and Results

We formulated the fourth medium-term environmental plan, for which FY2016 was the final year, and worked to reduce environmental impact.

Overall view of the FY2015 environmental impact (Sumitomo Heavy Industries Group, domestic)



*2 VOC: Volatile Organic Compounds

Environmental Accounting for FY2015

Active Investment in Administration and Maintenance of ISO 14001 Standards

As a yardstick for measuring the investment, expenditure and effect of environmental protection, we have conducted environmental accounting in accordance with the Environmental Accounting Guidelines, 2005, issued by the Ministry of the Environment.

Unit: million yen

Costs for environment protection									Effectiveness of environmental protection		
Category		Details of the main activities and the effects	Investment amount		Costs		Economic effect		- Main content		
		Details of the main activities and the effects		2014	2015	2014	2015	2014	2015	Main Content	
(1) Costs within Business Areas (Sites)		Maintenance and amortization of environmental impact reduction equipment and facilities		435	457	732	630	205	223		
Breakdown	(1) - 1 Costs for Preventing Pollution	Maintenance management of facilities for prever and water pollution and measurement of noise a facilities		157	59	198	210	0			
	(1) - 2 Costs for Global Environment Protection	Investment in energy-saving measures (electric power monitoring, energy-saving equipupgrades, etc.)	ment, lighting	234	271	59	58	-47	67	Cost reduction with introduction of energy conservation, natural energy	
	Resource Recycling	Investment in waste material reduction and recycling (recycling, reuse)		44	127	475	363	0		Reducing landfill by separating rubbish, cost reduction by cutting back on waste	
	Costs							252	156	Proceeds from sale of valuables, etc.	
(2) Upstream and Downstream Costs		Reduction of product packaging material, recycling of appliances, use of reverse side of paper		2	2	6	3				
(3) Management Activity Costs		Administration and maintenance of ISO 14001 standards, expansion of green areas		18	4	1,230	825				
(4) Research and Development Costs		Research and development to reduce the environmental impact of products, research and development of environmental equipment		1,873	2,096	852	622				
(5) Social Activity Costs		Local environmental protection and greening activities		0	0	1	1				
(6) Cost of dealing with environmental damage		Levies on air pollution loads; share of green belts and pollution compensation		0	0	0	0				
			Total	2,328	2,559	2,821	2,081	205	223		

Environmental Objectives (Medium-Term Plan) and Results

General Overview of Fiscal Year 2015 Activities and the 4th Medium-Term Environmental Plan (2014-2016)

Targets Achieved in 15 out of 18 Items

We promoted the 4th Medium-Term Environmental Plan (FY2014-2016), for which fiscal year 2016 is the final target year. The fiscal year 2015 targets under the 4th Medium-Term Environmental Plan (FY2014-2016) and the status of achievement of fiscal year 2015 activities are shown below.

Evaluation: \bigcirc Achieved \triangle Achieved by 90% or more \times Achieved by less than 90%

Index	Item	4th Medium-Term Environmental Plan (2014-2016)	Targets in FY2015	Achievements in FY2015	Evaluation
	① Zero environmental accidents (legal violations)	Continue zero environmental accidents (legal violations) Expand environmental risk assessments in Japan and to other countries	Continue zero environmental accidents (legal violations) Expand environmental risk assessments in Japan and to other countries	Continuing achieving zero environmental accidents (legal violations) Expanding environmental risk assessments in Japan and to other countries	0
Environmental Management	② Increase in the number of ISO 14001 certifications	Total number of factories outside Japan that have acquired certification rises to 17 or more	Total number of factories outside Japan that have acquired certification is 15	Certification acquired by a total of 17 overseas factories in 16 companies	0
managomone	③ Expansion of the scope of the Consolidated Environmental Management	Expand to marketing and service centers outside Japan Expand local guidance by head office and periodic environmental audits to all principal manufacturing bases outside Japan	Expand to marketing and service centers outside Japan Expand local guidance by head office and periodic environmental audits to all principal manufacturing bases outside Japan	Environmental audits conducted at two factories in China and two factories in the Philippines	0
	① Reduction in CO ₂ emissions at works and offices	In Japan: In FY2016, 32% reduction compared to FY2004 Global (Japan + overseas): 22% reduction compared to FY1990	In Japan: 31% reduction compared to FY2004 Global (Japan + overseas): 21% reduction compared to FY1990	In Japan: 29% reduction compared to FY2004 Global (Japan + overseas): 25% reduction compared to FY1990	Δ
Prevention of Global Warming	② Improved energy productivity Energy productivity = Net sales/CO ₂ emissions	In Japan: In FY2016, 10% improvement compared to FY2008 Outside Japan: In FY2016, 3% improvement compared to FY2013	In Japan: Improvement by 9% compared to FY2008 Outside Japan: 2% improvement compared to FY2013	In Japan: Improvement by 13% compared to FY2008 Outside Japan: 7% improvement compared to FY2013	0
	③ Promotion of green logistics (Reduction in CO ₂ emissions during transportation)	By FY2016, 10% reduction per basic unit of transportation against FY2006 benchmark	9% reduction per basic unit of transportation against FY2006 benchmark	12% reduction per basic unit of transportation against FY2006 benchmark	0
Expansion of Line-up	① Expansion in environmentally friendly products	Number of products certified as environmentally friendly: 23 15% annual reduction in CO ₂ emissions from product use (Contribution to reduction is equivalent to 270,000 tons annually)	Number of products certified as environmentally friendly: 21 13% annual reduction in CO ₂ emissions from product use	Actual number of products certified as environmentally friendly: 19 products 19% annual reduction in CO ₂ emissions from product use	Δ
of Environmentally Friendly Products	② Promotion of measures for green procurement (purchase of raw materials and components)	Promote green procurement (purchase of raw materials and components)	Promote green procurement (purchase of raw materials and components)	Continue promotion of green procurement (purchase of raw materials and components)	0
	Responding to chemical substance regulations that apply to our products	Expand operation of system for managing chemical substances	Expand operation of system for managing chemical substances	Continue operation of system for managing chemical substances	0
	Reduction of product packaging material	10% reduction compared to FY2010 by basic sales unit	10% reduction compared to FY2010 by basic sales unit	18% reduction compared to FY2010 by basic sales unit	0
	Reduction of waste emissions In Japan: Generated volume reduce compared to FY2007 3% reduction in both Japan and oth compared to FY2013 basic unit		In Japan: Generated volume reduced 13% compared to FY2007 2% reduction in both Japan and other countries compared to FY2013 basic unit	In Japan: Generated volume reduced 8% compared to FY2007 In Japan: 12% increase compared to FY2013 basic unit Outside Japan: 3% increase compared to FY2013 basic unit	×
Promotion of Resource	② Achievement of zero emissions	In Japan: Continued by all sites Outside Japan: 95% or higher rate of non-landfill treatment	In Japan: Continued by all sites Outside Japan: 94% or higher rate of non-landfill treatment	In Japan: Continued by all sites Outside Japan: 95% of non-landfill treatment	0
Conservation and Recycling	③ Reduction in paper usage	In Japan: Maintenance management (autonomously assigned issues) Outside Japan: 6% reduction compared to FY2013 by basic sales unit	In Japan: Maintenance management (autonomously assigned issues) Outside Japan: 2% reduction compared to FY2013 by basic sales unit	In Japan: Continue maintenance management Outside Japan: 4% reduction compared to FY2013 by basic sales unit	0
	④ Reducing Water Consumption	In Japan: 40% reduction compared to FY2005, continuing achievement at all sites Outside Japan: 3% reduction compared to FY2013 by basic sales unit	In Japan: 37% reduction compared to FY2005, continuing achievement at all sites Outside Japan: 2% reduction compared to FY2013 by basic sales unit	In Japan: 41% reduction compared to FY2005, continuing achievement at all sites Outside Japan: 14% reduction compared to FY2013 by basic sales unit	0
Promotion of	① Emission control of organochlorine chemicals (Soil Contamination Countermeasures Law, Montreal Protocol)	Continuing complete abolition of dichloromethane Continuing complete abolition of trichloroethylene Continuing complete abolition of tetrachloroethylene Continuing complete abolition of HCFC-141b and HCFC-225	Continuing complete abolition of dichloromethane Continuing complete abolition of trichloroethylene Continuing complete abolition of tetrachloroethylene Continuing complete abolition of HCFC-141b and HCFC-225		
Prevention of Environmental Pollution	② Emission control of substances designated as VOC (Air Pollution Control Law)	In Japan: 34% reduction compared to FY2006 Outside Japan: 3% reduction compared to FY2013 by basic sales unit	In Japan: 34% reduction compared to FY2006 Outside Japan: 2% reduction compared to FY2013 by basic sales unit	In Japan: 48% reduction compared to FY2006 Outside Japan: 7% reduction compared to FY2013 by basic sales unit	0
	③ Total abolition of equipment that uses PCB	Make appropriate disposal of equipment with high concentration of PCB after receipt of disposal notice For low concentrations, continue removing and storing in accordance with plans	Make appropriate disposal of equipment with high concentration of PCB after receipt of disposal notice For low concentrations, continue removing and storing in accordance with plans	Start to make appropriate disposal of equipment with high concentration of PCB after receipt of disposal notice For low concentrations, remove and store in accordance with plans	0
Community Contribution	① Contribute to biodiversity	Systematic tree planting, greening and other such activities at each factory Continue making quantitative determination of impact from business activities on biodiversity	Systematic tree planting, greening and other such activities at each factory Continue making quantitative determination of impact from business activities on biodiversity	Continue systematic tree planting and greening at each factory Continue making quantitative determination of impact from business activities on biodiversity	0