SUMITOMO CHEMICAL

CSR REPORT 2014 DATA BOOK

Responsible Care Activities

C O N T E N T S












1 Management Systems (Non-Consolidated)

Environmental Management System (ISO14001)

Acquisition of ISO14001 Certification by Sumitomo Chemical's Works

Works and Certificate Number	ISO14001:1996 Certification Date	ISO14001:2004 Certification Date
Ehime Works (including Ohe Works) [JCQA-E-018]	April 1998	April 2006
Chiba Works [KHK-97ER-04]	June 1997	March 2006
Osaka Works [JQA-E-90072]	November 1997	January 2006
Oita Works(Gifu Plant) [JCQA-E-0206]	December 2000	December 2005
Oita Works(Okayama Plant) [JCQA-E-0218]	January 2001	February 2006
Oita Works [JQA-E-90152]	March 1998	April 2006
Misawa Works [JQA-EM0355]	March 1999	February 2006

ISO14001:1996 certification was obtained at all Works between 1997 and 2001. From 2005 to 2006, these Works took steps to undergo transitional inspections and obtained certification for ISO14001:2004, the revised version of ISO14001:1996.

Quality Management System (ISO9001)

Acquisition of ISO9000 Series Certification by Sumitomo Chemical's Works

Works and Certificate Number	ISO9002:1994 Certification Date	ISO9001:2008 Certification Date
Ehime Works [JCQA-0019] [YKA-4004422/J]	October 1994 —	October 2009 August 2009
Chiba Works [JQA-0829]	March 1995	April 2010
Osaka Works [JQA-0721]	December 1994	December 2009
Oita Works (Okayama Plant) [JQA-1650]	March 1997	April 2010
Oita Works [JQA-1069]	December 1995	January 2010
Misawa Works [JQA-0752]	December 1994	December 2009
Ohe Works [JCQA-0320] [JCQA-1720]	April 1998 —	April 2010 January 2010

Certification of compliance with ISO9002:1994 was completed for all Works except the Oita Works (Gifu Plant)* between 1994 and 1998. Sumitomo Chemical made the transition to compliance with ISO9001:2008 in 2009–2010. The Ohe Works registered for ISO9001:2008 in 2010.

*The Oita Works (Gifu Plant) has been pursuing Good Manufacturing Practice (GMP) management as have other Works, including the Osaka Works, the Oita Works (Okayama Plant) , the Oita Works and the Misawa Works.

Occupational Safety and Health Management System (OSHMS)

Acquisition of OSHMS Certification for Sumitomo Chemical's Works and Research Laboratories

Facilities	Certificate Number	Certification Date
Ehime Works	04-38-1	September 2004
Chiba Works	03-12-1	May 2003
Osaka Works	05-27-3	February 2005
Oita Works (Utajima)	09-27-14	January 2009
Oita Works (Gifu Plant)	09-21-6	February 2009
Oita Works (Okayama Plant)	09-33-7	February 2009
Oita Works	06-44-1	July 2006
Ohe Works	10-38-4	March 2010
Agricultural Chemicals Research Laboratory *1	07-28-9	January 2007
Tsukuba Research Laboratory *2	05-8-3	December 2005

By fiscal 2009, Sumitomo Chemical acquired OSHMS certification from the Japan Industrial Safety and Health Association (JISHA) at five of its Works and two of its Research Laboratories.

* 1 Agricultural Chemicals Research Laboratory is presently named Health & Crop Sciences Research Laboratory.
* 2 Tsukuba Research Laboratory was reorganized into the Tsukuba Material Development Laboratory and the Advanced Materials Research Laboratory.

Voluntary Safety Management of High Pressure Gas based on Certification by the Minister

Number of Accreditations of Completion and Safety Inspection Given for Sumitomo Chemical Facilities

Works	Area	Year of certification	Year and month renewed	Number of facilities given accreditation
Ehime Works	Niihama	2002	March 2013	13
	Kikumoto	2002	March 2013	4
Chiba Works	Anesaki	1987	May 2014	11
	Sodegaura	1987	May 2014	17

To achieve safe operations, Sumitomo Chemical has obtained Accreditation of Completion and Safety Inspection as stipulated in the High Pressure Gas Safety Act for our 45 facilities. Certification for the Chiba Works, which has been certified since 1987, was renewed in May 2014. The Ehime Works which has been certified since 2002, was also renewed in March 2013. The plants of both Works have been continuing stable operations. Ministerial certification is given to plants which have achieved excellent safety and management levels and meet legal requirements. Such plants are allowed to conduct their safety inspections on a voluntary basis. In order to obtain ministerial certification, prior review is made by a special team including academic experts on the accuracy of daily safety inspection data and the safety management system. Every time, Sumitomo Chemical has been given high marks at the review for renewal of the certification.

2 Occupational Safety and Health·Industrial Safety and Disaster Prevention (Non-Consolidated and Group Companies in Japan)

Criteria and Results of the President's Safety Award for Zero-Accident and Zero-Lost Workday Operations

Sumitomo Chemical Employees

Facilities	Criteria for the President's Safety Award *1	Results
Ehime Works	3 million hours	Working to reach the target of 3 million work hours
Ohe Works · SAT	3 million hours	Working to reach the target of 3 million work hours
Chiba Works	3 million hours	Reached 3 million work hours in June 2014
Osaka Works	3 million hours	Reached 3 million work hours in August 2013
Oita Works *2	1 million hours	Working to reach the target of 1 million work hours
Misawa Works	30 months	Reached 120 months in October 2013
Health & Crop Sciences Research Laboratory	30 months	Reached 330 months in December 2013
Tsukuba Research Laboratory *3	30 months	Reached 300 months in March 2014

Contractors / Affiliated Company Employees

Facilities	Criteria for the President's Safety Award *1	Results
Ehime Association (Plant maintenance)	24 months	Working to reach the target of 48 months
Ehime Logistics Association (Logistics)	24 months	Reached 24 months in January 2014
Ohe Association (Plant maintenance)	24 months	Reached 48 months in March 2013
Ohe Logistics Association (Logistics)	24 months	Reached 48 months in March 2013
Chiba Association (Plant maintenance)	24 months	Working to reach the target of 24 months
Chiba Logistics Association (Logistics)	24 months	Working to reach the target of 24 months
Osaka Association	24 months	Working to reach the target of 24 months
Oita Association	24 months	Reached 24 months in April 2013
Okayama Association	48 months	Working to reach the target of 144 months
Gifu Association	48 months	Reached 48 months in October 2013
Misawa Works	48 months	Working to reach the target of 48 months
Health & Crop Sciences Research Laboratory	48 months	Working to reach the target of 192 months
Tsukuba Research Laboratory	48 months	Working to reach the target of 48 months

Sumitomo Chemical has set facility specific criteria for the achievement of continuous periods of zero-accident and zero-lost workday operations for employees as well as contractors. The President's Safety Award is presented to facilities in recognition of their satisfaction of the above-mentioned criteria.

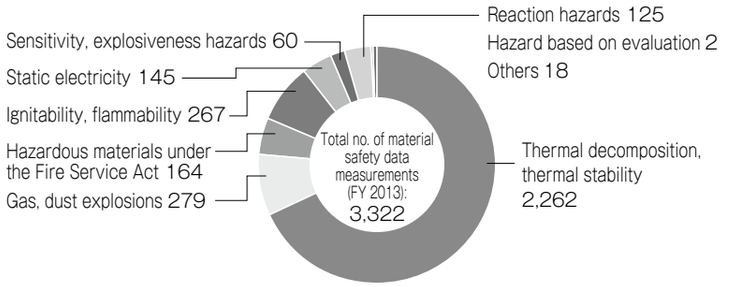
* 1 Continuous periods of zero-accident, zero-lost workday operations
* 2 Oita Works includes the Utajima Pilot Production Department, Gifu Plant, and Okayama Plant
* 3 Tsukuba Research Laboratory was reorganized into the Tsukuba Material Development Laboratory and the Advanced Materials Research Laboratory.

Safety Achievements of Group Companies (Sumitomo Chemical Group Companies, excluding Sumitomo Chemical Co., Ltd.)

	Number of lost workday injuries	Frequency rate for lost workday injuries
FY 2011	8	0.24
FY 2012	7	0.22
FY 2013	10	0.25

In fiscal 2013, both the number and rate of frequency of injuries resulting in lost workdays increased slightly from the previous fiscal year levels. We will work to share detailed information regarding accidents throughout the entire Group and work in unison to improve safety achievements.

Results of Material Safety Data Measurements



Safety Information Database

	Number of data sets	Year on year comparison
Accident prevention technology information	16,599	Increase by 754
Accident cause investigations	2,177	Increase by 34
Accident information	18,694	Increase by 494
As of March 31, 2014	37,470	

The Safety Engineering Group at the Production & Safety Fundamental Technology Center studies and assesses process safety, researches safety measures, measures and evaluates material safety data, complies a database on safety technologies, and undertakes training for safety engineers in its efforts to enhance process safety management and to prevent accidents such as fires and explosions. A total of 3,106 material safety data measurements were taken in fiscal 2013 (2,799 measurements in fiscal 2012) from within Sumitomo Chemical. In addition, 216 measurements were taken in fiscal 2013 (111 measurements in fiscal 2012) from Group companies. Total measurements undertaken were 3,322 in fiscal 2013 (2,910 measurements in fiscal 2012).

A safety information database has been created by collecting information on accidents in Japan and overseas and preparing abstracts of such accidents. As of the end of March 2014, 37,470 sets of data were stored in the database (36,848 sets of data as of March 31, 2013). This system allows all employees at each Works or Research Laboratory to search stored abstracts, and abstracts and their original data can be viewed or printed at individual terminals. These data are also used in process hazard evaluations and case study examinations to prevent similar accidents. In addition, accident data are also disclosed to Group companies as necessary.

3 Responsible Care Audits
(Non-Consolidated as well as Group Companies in Japan and Overseas)

Audits Conducted

Responsible Care Audit Results

Facilities		2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Specialized Audits	Works	4	5	4	5	4	7	4	5	4	11	11	10	11	9
	Research Laboratories	2	1	0	1	1	0	1	1	0	1	1	0	1	1
	Logistics Centers	0	0	1	0	0	1	0	0	1	0	0	0	0	0
	Business Sectors	4	4	7	5	6	5	5	6	5	5	4	4	4	5
	Group Companies (Japan)	22	16	9	8	12	10	12	14	16	16	14	14	16	14
	Group Companies (Overseas)	—	2	1	2	3	1	4	4	4	3	6	7	5	7
Management Audits	Works and Research Laboratories	6	6	5	6	6	5	6	6	5	7	7	6	7	6
Total		38	34	27	27	32	29	32	36	35	43	43	41	44	42

Specialized Audits for Facilities and Business Sectors

Area	Facilities (Works, Research Laboratories)	Business Sectors (Head Office Business Sectors)	Total
Good	14	3	17
Needs Improvement	150	8	158
Needs to be Examined	81	11	92
Total	245	22	267

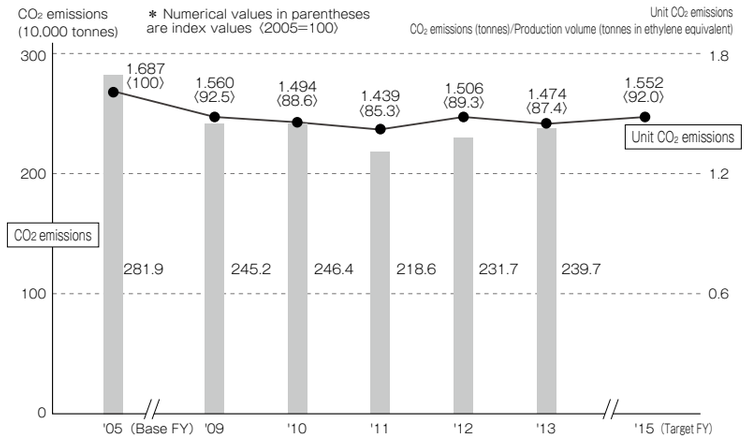
In fiscal 2013, a total of 42 specialized and management audits were conducted. The Sumitomo Chemical specialized audits resulted in a total of 267 items meriting comment. Audit items will be expanded and enhanced on an annual basis to ensure continual improvement.

4 Environmental Preservation
(Non-Consolidated and Group Companies in Japan)

Reducing Greenhouse Gas Emissions

CO_2 (Non-Consolidated (Target: All Works))

CO_2 Emissions from Fossil Fuel for Captive Consumption and Corresponding Unit Emissions



In fiscal 2013, the volume of CO_2 emissions originating from fossil fuels consumed in-house was 2,397 kilotonnes, up 3.5% compared with the previous fiscal year. This was a decrease of 15.0% compared with fiscal 2005.

Target

Achieve an 8% improvement compared with fiscal 2005 in unit CO_2 emissions originating from fossil fuels consumed in-house by fiscal 2015.

Greenhouse Gases (All Six Gases) (Non-Consolidated (Target: All Facilities))

Emissions

10,000 tonnes in CO_2 equivalent

		FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
CO_2	Energy sources	351.2	345.4	313.4	319.0	335.7
	From other than energy use	10.7	10.9	9.8	6.2	6.3
Methane (CH_4)		—	—	—	—	—
Nitrous oxide (N_2O)		5.8	4.9	5.8	6.7	6.3
Hydrofluorocarbon (HFC)		—	—	—	—	—
Perfluorocarbon (PFC)		—	—	—	—	—
Sulfur hexafluoride (SF_6)		—	—	—	—	—

* CH_4, HFC, PFC, and SF_6 are outside the scope of reporting.

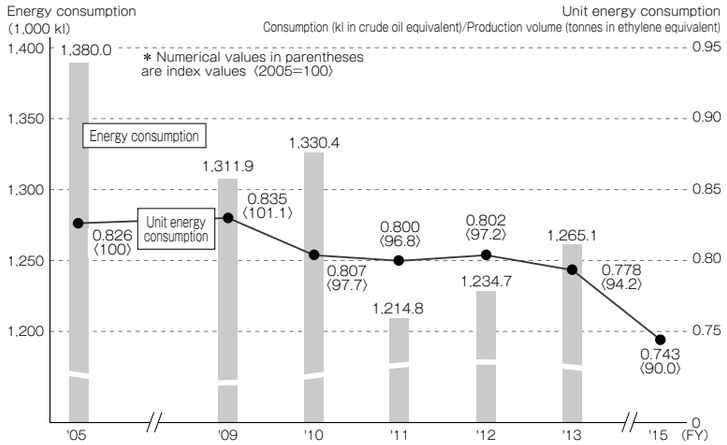
Energy Saving

Breakdown of Unit Energy Consumption (Non-Consolidated (Target: All Works))

	a Energy consumption (1,000 kl in crude oil equivalent)	b Production (1,000 tonnes in ethylene equivalent)	a/b Unit energy consumption
Ehime Works	431.1	687.8	0.63
Chiba Works	715.8	805.3	0.89
Osaka Works	22.3	14.1	1.58
Oita Works	52.3	49.4	1.06
Misawa Works	11.1	7.8	1.42
Ohe Works	32.5	62.0	0.52
Total	1,265.1	1,626.4	0.78

In fiscal 2013, energy consumption increased by 2.2% compared with the previous fiscal year to 1,265,100 kl (crude oil equivalent). Meanwhile, unit energy consumption improved 3.0% compared with the previous fiscal year and 5.8% compared with fiscal 2005.

Energy Consumption and Unit Energy Consumption (Non-Consolidated (Target: All Works))



Target

Improve unit energy consumption for fiscal 2015 by 10% compared with fiscal 2005.

Energy Consumption and CO_2 Emissions*1 (Non-Consolidated and Group Companies in Japan (Target: All Facilities))

	Energy consumption (1,000 kl in crude oil equivalent)	CO_2 emissions from energy use (1,000 tonnes)
Group companies in Japan	1,701	4,459
Works	1,670	4,400
Non-manufacturing sites including the Head Offices and Research Laboratories	31	59
Non-consolidated	1,278	3,357
Works	1,265	3,333
Non-manufacturing sites including the Head Offices and Research Laboratories	13	24

The table on the left shows the results of Group companies in Japan (a total of 17 companies including Sumitomo Chemical*2) for fiscal 2013. These results are based on data reported to governmental authorities by each of the companies at the end of July 2014.

*1. Calculated based on the Act on the Rational Use of Energy and the Act on Promotion of Global Warming Countermeasures.
*2. The scope of calculation covers the same participating companies in connection with section 5 of this data book titled "Unification of Group Environmental Preservation Targets."

Initiatives for Energy Saving and CO_2 Emissions Reduction in Logistics Division (Non-Consolidated and Group Companies in Japan)

Energy Consumption and CO_2 Emissions from Logistics Division (Non-Consolidated)

	2006	2007	2008	2009	2010	2011	2012	2013
Energy consumption (1,000 kl in crude oil)	28.1	27.7	24.2	22.9	22.6	20.7	19.9	20.0
Unit energy consumption (kl/1,000 tonnes)	8.02	7.78	7.30	7.32	7.61	7.22	7.45	7.75
CO_2 emissions (1,000 tonnes)	73.4	73.0	63.8	60.3	59.4	54.4	52.5	52.7

Energy Consumption and CO_2 Emissions for Group Companies in Japan ("Two Specified Consigners")*1

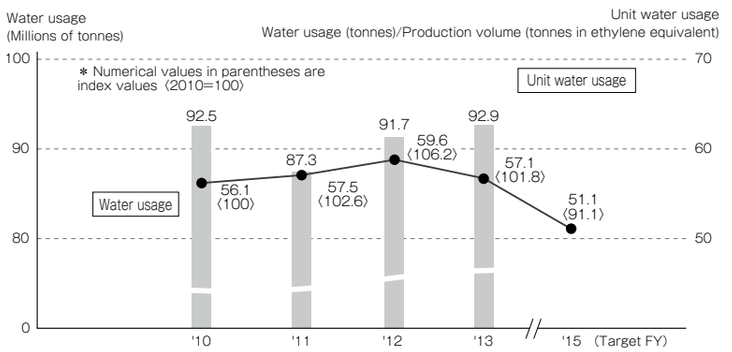
	2006	2007	2008	2009	2010	2011	2012	2013
Energy consumption (1,000 kl in crude oil)	3.8	3.7	3.0	3.1	3.4	4.1	3.9*2	3.9
CO_2 emissions (1,000 tonnes)	10.3	9.6	7.9	8.3	8.9	10.9	10.3*2	10.3

* 1 Totals for Nippon A&L Inc. and Nihon Oxirane Co., Ltd.
* 2 Data for fiscal 2012 has been revised with steps taken to improve the accuracy of calculation methods.

Sumitomo Chemical has been working to reduce the environmental impact of its logistic division by continuously increasing transportation efficiency by upsizing delivery volumes, improving the modal shift rate and shortening transportation distances by changing storage facilities. In fiscal 2013, the unit energy consumption deteriorated by 4.0% year on year. The unit energy consumption improved by 0.5% on average on a yearly basis since fiscal 2006.

Promoting Efficient Use of Water

Water Usage and Unit Water Usage (Non-Consolidated (Target: All Works))



Sumitomo Chemical has endeavored to promote the efficient use of water as a precious and essential resource. In fiscal 2013, the Company' s unit water usage improved by 4.2% compared with the previous year.

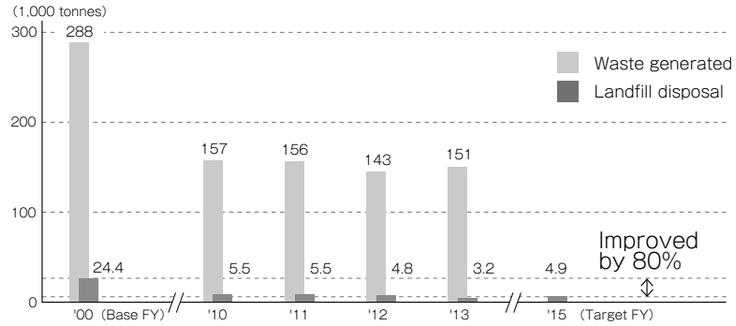
* Data for water usage do not include the volume of seawater used.

Target

Improve unit water usage for fiscal 2015 by 9% compared with fiscal 2010.

Industrial Waste Reduction

Trend in Waste Generated and Landfill Amount (Non-Consolidated (Target: All Works))



In April 2011, we began implementing measures to achieve the new target of reducing landfill disposal by 80% compared with fiscal 2000 by fiscal 2015. Landfill disposal in fiscal 2013 decreased to 3,242 tonnes, down 33.3% year on year (down 86.9% compared with fiscal 2000).

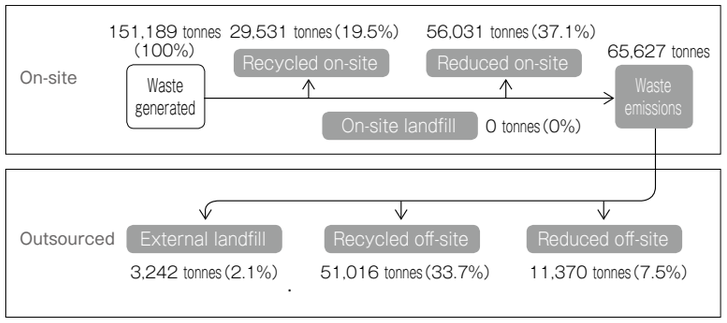
* The amount of waste that was reduced offsite and disposed to landfill without being recycled was included in the amount of external landfill.

Target

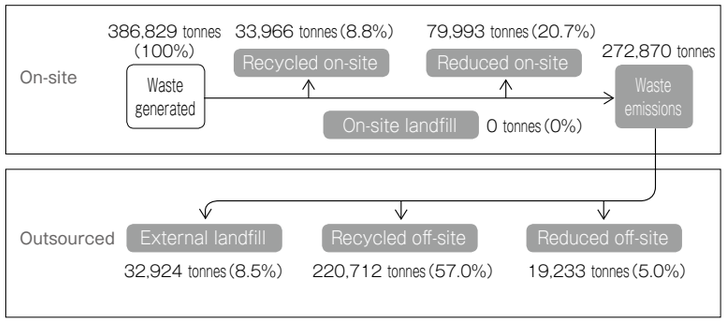
Reduce landfill disposal by 80% compared with fiscal 2000 by fiscal 2015.

Waste Disposal Flow Chart and Results (FY 2013)

(Non-Consolidated (Target: All Works))



(Group Companies in Japan (Target: All Works))



Recycled waste: Total amount of waste that was reused, recycled, or thermally recycled
Reduced waste: Total amount of waste reduced through incineration, etc.

* Data for Group companies in Japan reflect totals for Sumitomo Chemical and its 17 Group companies in Japan.

List of Results by Item in connection with the Disposal of Waste and Valuable Resources (Non-Consolidated (Target: All Works))

(Unit: tonnes)

Type	Classification	Waste/valuable resource classification		Waste	Valuable resource	Recycled on-site		Reduced on-site		Waste/valuable resource emissions	On-site landfill	Reduced off-site	Recycled off-site		External landfill
		Waste	Valuable resource	Generated	Generated	Reused, recycled	Thermally recycled	Incineration	Other				Reused, recycled	Thermally recycled	
Burnt residue	Burnt residue	○		3,567.2	0	0	0	0	0	3,567.2	0	0	3,429.4	0	137.8
Sludge	Inorganic sludge	○		55.0	0	0	0	0	0	55.0	0	1	54.0	0	0
Oil waste	Organic sludge	○		5,918.6	0	0	0	4,391.0	0	1,527.6	0	159.2	1,366.4	0	2.0
	Inorganic and organic mixed sludge	○		46,769.3	0	0	12,969.2	16,391.1	53.1	17,355.9	0	2,870.5	12,793.8	40.9	1,650.7
	Oil waste other than organic waste solvents	○		7,035.4	0	0	3,409.1	71.0	0	3,555.3	0	653.8	2,901.5	0	0
	Oil waste other than organic waste solvents		○	0	70.1	0	0	0	0	70.1	0	0	70.1	0	0
	Organic waste solvents	○		29,641.9	0	4,616.4	7,649.0	9,678.3	0	7,698.2	0	1,925.9	4,338.2	1,421.0	13.1
	Organic waste solvents		○	0	409.0	0	0	0	0	409.0	0	0	409.0	0	0
Waste acid	Waste acid	○		4,451.9	0	112.0	70.7	2,092.3	0	2,176.9	0	732.6	1,338.3	98.4	7.6
Waste alkali	Waste alkali	○		40,368.3	0	0	393.3	20,880.6	0	19,094.4	0	3,091.7	14,144.4	1,833.7	24.6
Waste plastic	Waste plastic other than waste synthetic rubber	○		5,992.0	0	0	170.9	1,516.6	0	4,304.5	0	1,223.0	2,413.8	62.7	605.0
	Waste plastic other than waste synthetic rubber		○	0	3,867.9	0	0	0	0	3,867.9	0	0	3,867.9	0	0
Waste paper	Waste paper	○		1,300.6	0	0	101.8	892.8	0	306.0	0	27.1	275.9	0.3	2.7
	Waste paper		○	0	58.9	0	0	0	0	58.9	0	0	58.9	0	0
Wood waste	Wood waste	○		826.8	0	0	0	36.0	0	790.8	0	74.0	525.6	160.4	30.8
Textile waste	Textile waste	○		67.8	0	0	0	28.0	0	39.8	0	10.0	0	0	29.8
Animal and plant residues	Animal and plant residues	○		8.4	0	0	0	0	0	8.4	0	8.4	0	0	0
Metal waste	Scrap iron	○		484.8	0	0	0	0	0	484.8	0	98.6	348.4	0	37.8
	Scrap iron		○	0	3,333.5	0	0	0	0	3,333.5	0	0	3,333.5	0	0
Glass and pottery waste	Glass waste	○		546.3	0	0	0	0	0	546.3	0	73.8	267.5	0	205.0
	Pottery waste	○		369.9	0	0	0	0	0	369.9	0	1	347.9	0	21.0
Debris	Debris	○		1,044.2	0	30.0	0	0	0	1,014.2	0	419.2	121.3	0	473.7
Soot and dust	Soot and dust	○		2,740.1	0	0	8.1	0	0	2,732.0	0	0	2,732.0	0	0
			Total	151,189	7,739	4,758	24,772	55,978	53	73,367	0	11,370	55,138	3,617	3,242

Digitization of Manifests to be Prepared Pursuant to the Waste Management and Public Cleansing Act (Non-Consolidated (Target: All Works))

	Number of manifests issued	Number of manifests digitized	Digitization rate
FY 2010	17,745	12,609	71%
FY 2011	19,243	15,048	78%
FY 2012	17,502	13,259	76%
FY 2013	19,389	15,329	79%

Sumitomo Chemical has been fostering the digitization of manifests to improve operational efficiency and ensure compliance with the law and transparency of data. In fiscal 2013, the Company issued 19,389 manifests, of which 15,329 (79%) were electronic.

PCB Waste (Non-Consolidated and Group Companies in Japan (Target: All Works)

Storage and Control of High Concentrations of PCB Waste as of the End of Fiscal 2013 (Non-Consolidated and the Group)

	Number of units of PCB waste	Volume of PCB (㎥)
Non-consolidated	16 (stored : 10/in use : 6)	1.0
Group	90 (stored : 84/in use : 6)	2.0

* Minute amounts of PCB waste is not included.
* Group data reflects totals for Sumitomo Chemical and its 17 Group companies in Japan.
* High concentrations of PCBs classified into fluorescent lamps, mercury lamp ballast, and contaminated substances (wastepaper, etc.) fall outside the scope of collation.)

Target

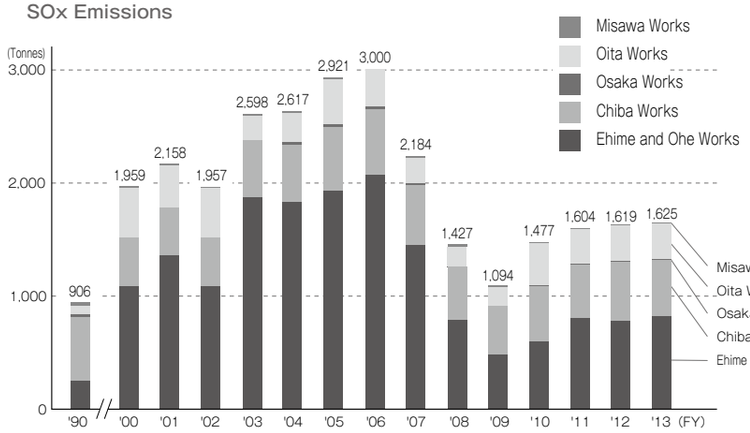
Properly collect and store high concentrations of PCB waste and complete treatment of this waste at an early date.

In accordance with the Act on Special Measures concerning Promotion of Proper Treatment of PCB Wastes, Sumitomo Chemical properly collects high concentrations of polychlorinated biphenyl (PCB) waste*. The Company then stores this industrial waste, which is subject to special controls, in specified areas within the Company's waste storage facilities, subsequently ensuring strict control of this waste. Sumitomo Chemical plans to treat all PCB waste ahead of the deadline specified under the Act.

* Capacitors, transformers and other electronic devices that contain PCB insulating oil

Preventing Pollution Atmospheric Emissions of SOx, NOx, Soot, and Dust

SOx Emissions

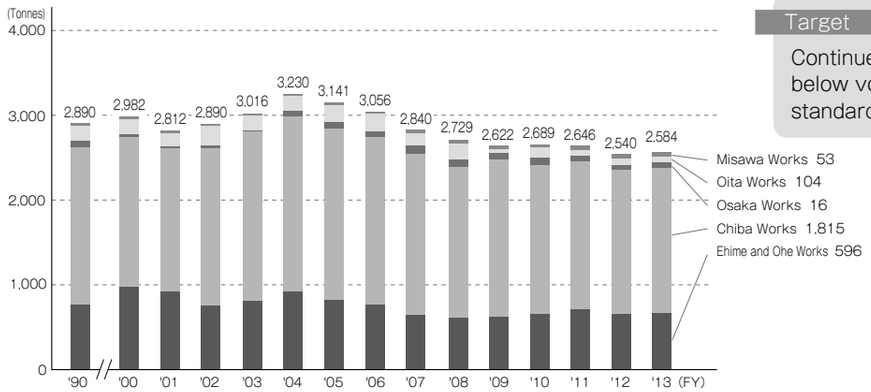


In 1970, Sumitomo Chemical achieved a marked reduction in the release of SOx, NOx, soot, and dust into the atmosphere, and continued to maintain low levels of emissions from 1980 to the present. Furthermore, the Company has concluded cooperative agreements with local municipal governments at each of its Works, establishing voluntary control levels that are stricter than the standards given under applicable laws and regulations.

Misawa Works 10
Oita Works 349
Osaka Works < 0.1
Chiba Works 471
Ehime and Ohe Works 795

* From fiscal 2004 to fiscal 2012, data for the Osaka Works included data for both the Gifu and Okayama Plants.
* Fiscal 2013 data for the Oita Works includes data for both the Oita Works (Gifu Plant) and the Oita Works (Okayama Plant).

NOx Emissions

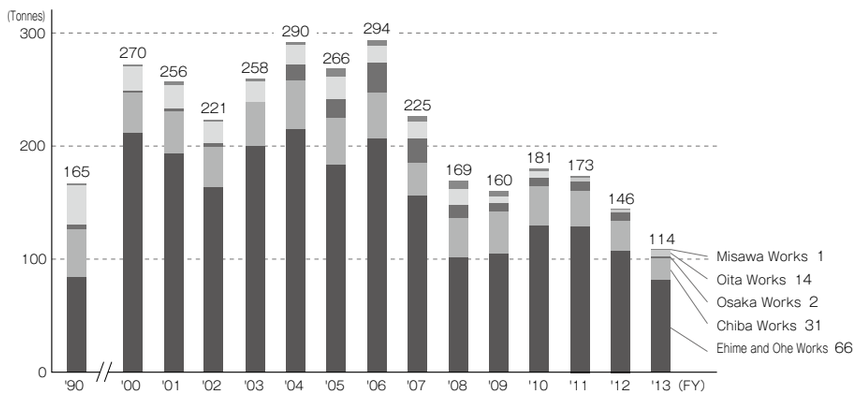


Misawa Works 53
Oita Works 104
Osaka Works 16
Chiba Works 1,815
Ehime and Ohe Works 596

Target

Continue to sustain levels below voluntary control standard values.

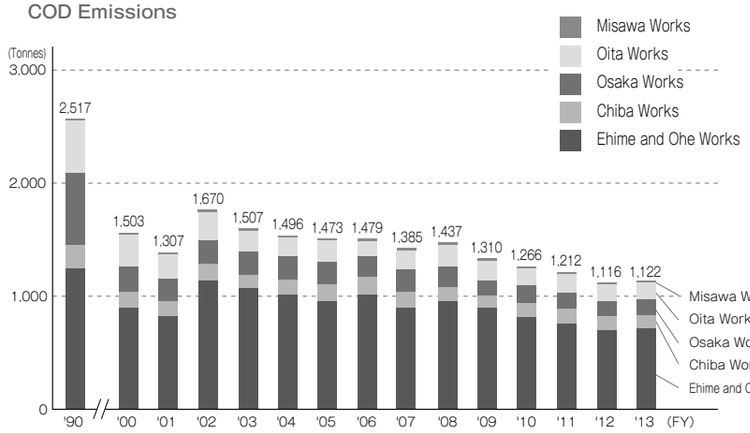
Soot and Dust Emissions



Misawa Works 1
Oita Works 14
Osaka Works 2
Chiba Works 31
Ehime and Ohe Works 66

Water emissions of COD, Nitrogen, and Phosphorus (water emissions include water discharge to sewage systems)

COD Emissions

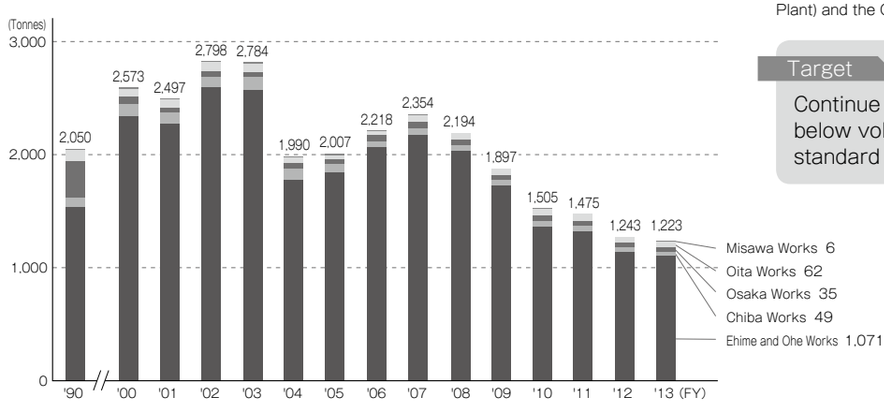


Sumitomo Chemical has also concluded cooperative agreements with local municipal governments to establish voluntary control levels for COD, nitrogen, and phosphorus released into waterways. These standards are also stricter than those established under applicable laws and regulations. A number of measures have been implemented to cut emissions, in line with fifth-generation Water Quality Standards, and emissions of nitrogen and phosphorus in particular have been significantly reduced since fiscal 2004.

Misawa Works 14
Oita Works 214
Osaka Works 108
Chiba Works 110
Ehime and Ohe Works 676

* From fiscal 2004 to fiscal 2012, data for the Osaka Works included data for both the Gifu and Okayama Plants.
* Fiscal 2013 data for the Oita Works includes data for both the Oita Works (Gifu Plant) and the Oita Works (Okayama Plant).

Nitrogen Emissions

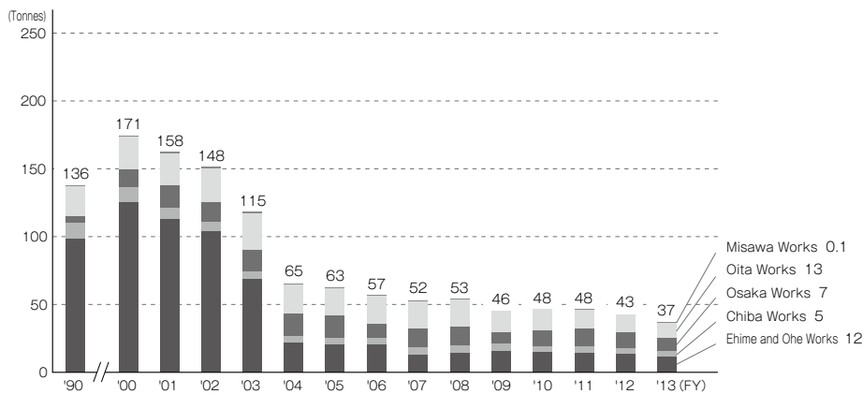


Misawa Works 6
Oita Works 62
Osaka Works 35
Chiba Works 49
Ehime and Ohe Works 1,071

Target

Continue to sustain levels below voluntary control standard values.

Phosphorus Emissions



Misawa Works 0.1
Oita Works 13
Osaka Works 7
Chiba Works 5
Ehime and Ohe Works 12

Response to the Pollutant Release and Transfer Register

Release and Transfer of PRTR Substances in Fiscal 2013 (Non-Consolidated (Target: All Works))

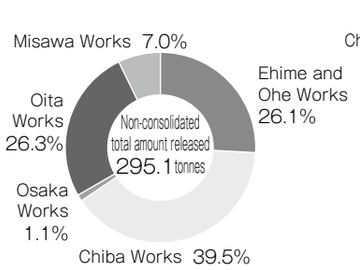
No.	Name of Chemical Compound	Amount Released					Amount Transferred		
		Air	Water	Soil	Landfill	Total	Sewage	Waste	Total
1	Zinc compounds (water-soluble)	0.0	4.2	0.0	0.0	4.2	0.0	101.1	101.1
2	Acrylic acid and its water-soluble salts	< 0.1	0.0	0.0	0.0	< 0.1	0.0	0.0	0.0
3	Methyl acrylate	2.8	0.0	0.0	0.0	2.8	0.0	0.0	0.0
4	Acrylonitrile	3.7	0.0	0.0	0.0	3.7	0.0	0.0	0.0
5	Acetaldehyde	0.3	< 0.1	0.0	0.0	0.3	0.0	0.0	0.0
6	Acetonitrile	10.8	< 0.1	0.0	0.0	10.8	0.0	224.9	224.9
7	Ortho-Anisidine	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4
8	Aniline	0.7	0.0	0.0	0.0	0.7	0.0	204.4	204.4
9	2-Aminoethanol	0.0	0.2	0.0	0.0	0.2	0.0	14.5	14.5
10	m-Aminophenol	0.0	< 0.1	0.0	0.0	< 0.1	0.0	2.9	2.9
11	3-Amino-1-propene	0.0	0.1	0.0	0.0	0.1	0.0	0.0	0.0
12	Allyl alcohol	< 0.1	0.0	0.0	0.0	< 0.1	0.0	0.0	0.0
13	Antimony and its compounds	0.0	0.0	0.0	0.0	0.0	0.0	9.4	9.4
14	Isobutyraldehyde	0.5	0.0	0.0	0.0	0.5	0.0	0.0	0.0
15	Ethylbenzene	8.1	0.1	0.0	0.0	8.2	0.1	45.0	45.1
16	Ethylene oxide	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	Ethylenediaminetetraacetic acid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	Epichlorohydrin	1.0	0.1	0.0	0.0	1.1	0.0	0.0	0.0
19	1,2-Epoxypropane (also known as propylene oxide)	0.0	< 0.1	0.0	0.0	< 0.1	0.0	0.0	0.0
20	ε-Caprolactam	0.4	28.1	0.0	0.0	28.5	0.0	0.1	0.1
21	2,6-Xylenol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	Xylene	5.0	< 0.1	0.0	0.0	5.0	0.1	44.2	44.3
23	Cumene	11.5	0.0	0.0	0.0	11.5	0.0	0.0	0.0
24	Cresol	0.2	0.0	0.0	0.0	0.2	0.0	0.0	0.0
25	Chloroaniline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	Chlorodifluoromethane (also known as HCFC-22)	1.2	0.0	0.0	0.0	1.2	0.0	0.0	0.0
27	p-Chlorotoluene	< 0.1	< 0.1	0.0	0.0	< 0.1	0.0	0.0	0.0
28	3-Chloropropene (also known as allyl chloride)	6.0	< 0.1	0.0	0.0	6.0	0.0	0.0	0.0
29	Chlorobenzene	9.3	< 0.1	0.0	0.0	9.3	0.0	577.3	577.3
30	Chloroform	< 0.1	0.0	0.0	0.0	< 0.1	0.0	29.1	29.1
31	Cobalt and its compounds	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32	Vinyl acetate	49.9	< 0.1	0.0	0.0	49.9	0.0	0.0	0.0
33	Salicyl aldehyde	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
34	Inorganic cyanide compounds (excluding complex salts and cyanates)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35	1,4-Dioxane	< 0.1	0.0	0.0	0.0	< 0.1	1.8	82.8	84.6
36	Cyclohex-1-ene-1,2-dicarboximidomethyl=(1RS)-sis-trans-2,2-dimethyl-3-(2-methylprop-1-enyl)cyclopropanecarboxylate (also known as tetramethrin)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37	Cyclohexylamine	0.0	0.1	0.0	0.0	0.1	0.0	11.3	11.3
38	1,2-Dichloroethane	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
39	1,2-Dichloropropane	0.0	0.0	0.0	0.0	0.0	0.0	727.3	727.3
40	1,3-Dichloropropene (also known as D-D)	0.0	< 0.1	0.0	0.0	< 0.1	0.0	472.7	472.7
41	Dichlorobenzene	0.2	0.0	0.0	0.0	0.2	0.0	173.5	173.5
42	Dichloropentafluoropropane (also known as HCFC-225)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
43	Dichloromethane (also known as methylene chloride)	4.7	0.0	0.0	0.0	4.7	0.0	96.8	96.8
44	Dicyclopentadiene	0.1	0.0	0.0	0.0	0.1	0.0	7.5	7.5
45	2,4-Dinitrophenol	0.0	0.0	0.0	0.0	0.0	0.0	55.5	55.5
46	Diphenylamine	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47	1,3-Diphenylguanidine	0.0	0.3	0.0	0.0	0.3	0.0	10.7	10.7
48	2,6-Di-tert-butyl-4-cresol	0.0	< 0.1	0.0	0.0	< 0.1	0.0	0.0	0.0
49	2,4-Di-tert-butylphenol	< 0.1	0.0	0.0	0.0	< 0.1	0.0	0.0	0.0
50	N,N-Dimethylacetamide	0.0	0.0	0.0	0.0	0.0	0.0	4.6	4.6
51	Dimethylamine	< 0.1	6.6	0.0	0.0	6.6	0.0	1.5	1.5
52	Dimethyl sulfide	0.0	< 0.1	0.0	0.0	< 0.1	0.0	0.0	0.0
53	N,N-Dimethylformamide	< 0.1	0.0	0.0	0.0	< 0.1	0.0	111.0	111.0
54	Bromine	< 0.1	0.0	0.0	0.0	< 0.1	0.0	0.0	0.0
55	Water-soluble bromates	0.0	< 0.1	0.0	0.0	< 0.1	0.0	0.0	0.0
56	Styrene	2.7	< 0.1	0.0	0.0	2.7	0.0	0.0	0.0
57	Dioxins	8.1	8.7	0.0	0.0	16.8	< 0.1	103.9	103.9
58	Thiourea	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3
59	Terephthalic acid	0.0	0.0	0.0	0.0	0.0	0.0	403.8	403.8
60	Water-soluble copper salts	0.0	< 0.1	0.0	0.0	< 0.1	0.0	0.0	0.0
61	Sodium dodecyl sulfate	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62	Triethylamine	3.7	3.8	0.0	0.0	7.5	0.5	114.3	114.8
63	2,4,6-Trichloro-1,3,5-triazine	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
64	Trichlorofluoromethane (also known as CFC-11)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65	1,2,3-Trichloropropane	< 0.1	0.0	0.0	0.0	< 0.1	0.0	10.2	10.2
66	Toluidine	0.0	0.0	0.0	0.0	0.0	0.0	2.8	2.8
67	Toluene	97.7	0.1	0.0	0.0	97.8	0.9	1,135.3	1,136.2
68	Naphthalene	0.0	0.0	0.0	0.0	0.0	0.0	< 0.1	< 0.1
69	Nickel compounds	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0
70	Nitrobenzene	0.6	0.6	0.0	0.0	1.2	0.0	64.9	64.9
71	Arsenic and its inorganic compounds	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72	Hydrazine	0.1	0.3	0.0	0.0	0.4	0.0	22.3	22.3
73	Hydroquinone	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
74	Pyridine	< 0.1	0.1	0.0	0.0	0.1	0.0	19.7	19.7
75	Phenylenediamine	0.0	< 0.1	0.0	0.0	< 0.1	0.0	0.3	0.3
76	1,3-Butadiene	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77	Di-n-butyl phthalate	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
78	Bis(2-ethylhexyl)phthalate	0.0	0.0	0.0	0.0	0.0	0.0	8.2	8.2
79	tert-Butyl hydroperoxide	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80	2-tert-Butyl-5-methylphenol	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0
81	2-Propyn-1-ol	< 0.1	0.0	0.0	0.0	< 0.1	0.0	0.0	0.0
82	1-Bromopropane	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
83	2-Bromopropane	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2
84	Hexadecyltrimethylammonium chloride	< 0.1	0.0	0.0	0.0	< 0.1	0.0	0.0	0.0
85	n-Hexane	37.2	0.4	0.0	0.0	37.6	0.0	140.8	140.8
86	Benzyl chloride	< 0.1	0.0	0.0	0.0	< 0.1	0.0	0.0	0.0
87	Benzaldehyde	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
88	Benzene	6.5	0.6	0.0	0.0	7.1	0.0	0.0	0.0
89	Boron compounds	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90	Polyoxyethylene alkyl ether (alkyl C=12-15) and its mixture	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
91	Formaldehyde	0.1	0.1	0.0	0.0	0.2	1.9	0.0	1.9
92	Phthalic anhydride	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
93	Maleic anhydride	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
94	Manganese and its compounds	0.0	< 0.1	0.0	0.0	< 0.1	0.0	2.2	2.2
95	Methacrylic acid	0.0	0.0	0.0	0.0	0.0	0.0	10.2	10.2
96	2,3-Epoxypropyl methacrylate	10.9	0.0	0.0	0.0	10.9	0.0	0.0	0.0
97	Methyl methacrylate	16.7	0.0	0.0	0.0	16.7	0.0	15.7	15.7
98	Methylamine	0.3	0.0	0.0	0.0	0.3	0.0	0.0	0.0
99	Methylnaphthalene	2.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0
100	Molybdenum and its compounds	0.0	0.0	0.0	0.0	0.0	0.0	< 0.1	< 0.1
101	Morpholine	0.0	0.1	0.0	0.0	0.1	0.0	1.3	1.3
	Total substances used by Sumitomo Chemical: 101 (FY 2013)	295.1	46.0	0.0	0.0	341.1	5.4	4,961.9	4,967.3

*Under the PRTR Act, significant figures are presented as double-digit kilograms. Unit data in this report, however, are in tonnes (mg-TEQ for dioxins) rounded to the nearest one decimal place.

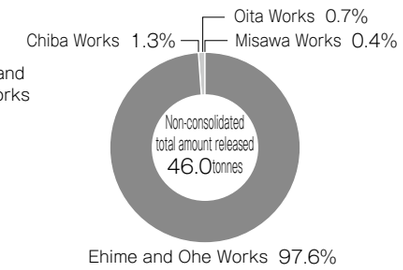
Release and Transfer of PRTR Substances (FY 2013) (Non-Consolidated and Group Companies in Japan) (Tonnes)

	Released			Transferred		
	Air	Water	Subtotal	Sewage	Waste	Subtotal
PRTR substances						
Non-consolidated (101 substances)	295.1	46.0	341.1	5.4	4,961.9	4,967.3
Group companies in Japan	521.9	64.5	586.4	9.5	6,887.5	6,897.0
JCIA PRTR substances	1,167.8					
Non-consolidated (136 substances)		135.5	1,303.3	5.4	10,955.4	10,960.8

PRTR Substances Released by Works (Non-Consolidated)



Released into the Air
(PRTR Substances)



Released into Waterways
(PRTR Substances)

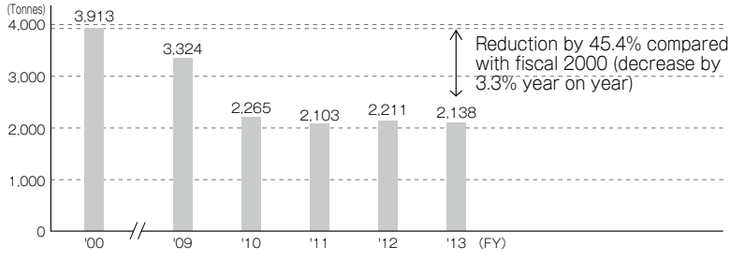
In April 2011, we began implementing measures to achieve the new target of reducing the total release of PRTR substances by 60% compared with fiscal 2008 by fiscal 2015. The total release in fiscal 2013 was 341.1 tonnes, down 19.5% compared with the previous fiscal year. We will continue making efforts to reduce our environmental impact through the practice of risk management.

* Figures for the release and transfer of PRTR substances for Group companies in Japan reflect totals for Sumitomo Chemical and its 17 Group companies in Japan.
* In regards to the data listed by Works, data for the Oita Works includes data for the Oita Works (Gifu Plant) and the Oita Works (Okayama Plant).

Target

Reduce the total release of PRTR substances by 60% compared with fiscal 2008 by fiscal 2015.

Initiatives to Reduce Emissions of Volatile Organic Compounds (VOC) (Non-Consolidated (Target: All Works))



* Data for fiscal 2012 has been revised with steps taken to improve the accuracy of calculation methods.

In April 2011, we began implementing measures to achieve the new target of maintaining a 30% reduction in VOC emissions compared with fiscal 2000. Total VOC emissions in fiscal 2013 decreased by 45.4% compared with fiscal 2000 to 2,138 tonnes (down 3.3% year on year).

Target

Maintain a 30% reduction in VOC emissions compared with fiscal 2000.

Prevention of Ozone Layer Depletion (Non-Consolidated and Group Companies in Japan (Target: All Works))

Number of Refrigeration Units that Use Specified CFCs and HCFCs as Coolants (as of the end of fiscal 2013)

Type	Non-consolidated	Group companies in Japan
CFC11	13	15
CFC12	5	61
CFC113	0	0
CFC114	0	0
CFC115	0	12
All HCFCs	139	Uninvestigated

Target

- Eliminate the use of refrigeration units that use specified CFCs (CFC11, CFC12, CFC113, CFC114, and CFC115) as coolants by fiscal 2025.
- Eliminate the use of refrigeration units that use HCFCs as coolants by fiscal 2045.

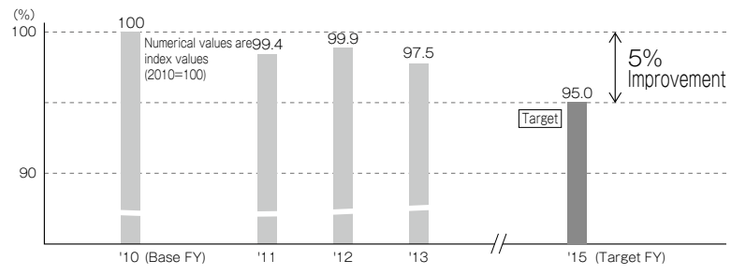
With respect to refrigeration units that use CFCs and HCFCs as coolants that are highly damaging to the ozone layer, Sumitomo Chemical is committed to ensuring that CFCs and HCFCs are not accidentally released into the atmosphere from devices containing them, and carries out proper recovery, transportation and destruction of specified CFCs and HCFCs contained in refrigeration units upon disposal.

* Data for Group companies in Japan reflect totals for Sumitomo Chemical and its 17 Group companies in Japan.

5 Unification of Group Environmental Preservation Targets (Group Companies in Japan and Overseas)

Group Companies in Japan (Target: All Works)

Unit Energy Consumption Index



Improvement in unit energy consumption

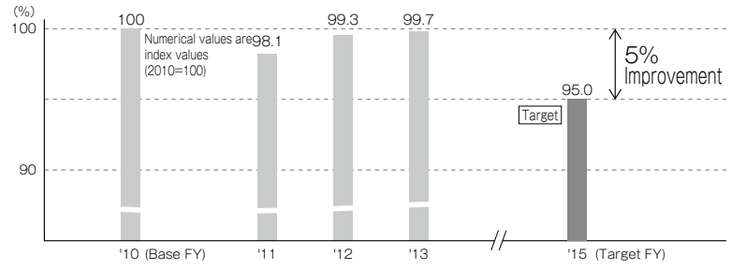
Target

Improve unit energy consumption by 5% compared with fiscal 2010 by fiscal 2015.

Results

Unit energy consumption in fiscal 2013 improved by 2.5% compared with fiscal 2010.

Unit CO_2 Emissions Index



Improvement in unit CO_2 emissions

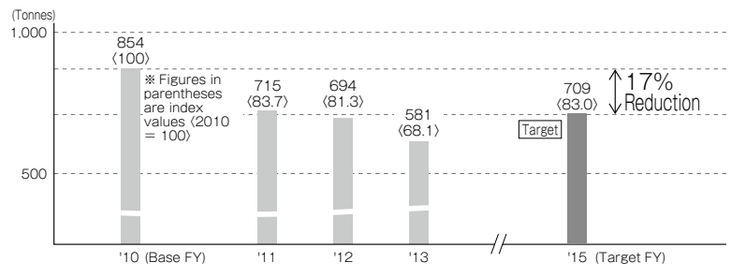
Target

Improve unit CO_2 emissions by 5% compared with fiscal 2010 by fiscal 2015.

Results

Unit CO_2 emissions in fiscal 2013 improved by 0.3% compared with fiscal 2010.

Volume of PRTR Substances Released (into the Air and Water) and Unit PRTR Substance Emissions Indices



Reduction of volume of PRTR substances released

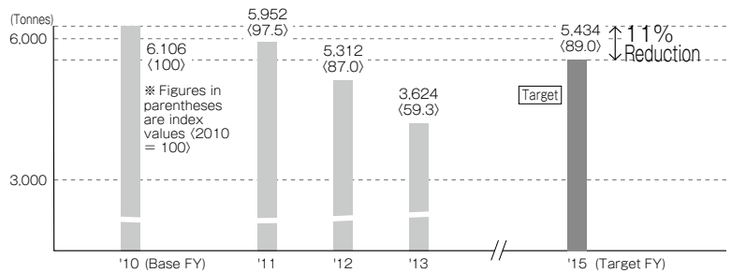
Target

Reduce the total volume of PRTR substances released (into the air and water) by 17% compared with fiscal 2010 by fiscal 2015.

Results

Total volume of PRTR substances released in fiscal 2013 was reduced by 31.9% compared with fiscal 2010.

Landfill Disposal Amount and Unit Landfill Disposal Indices



Reduction of landfill disposal amount

Target

Reduce landfill disposal amount by 11% compared with fiscal 2010 by fiscal 2015.

Results

Landfill disposal amount in fiscal 2013 was reduced by 40.7% compared with fiscal 2010.

Group-wide quantitative targets in Japan were established, and specific measures to achieve these targets are being implemented at all Group companies in Japan in order to reduce primary environmental impact systematically by fiscal 2015. These cover unit energy consumption, unit CO_2 emissions, release of PRTR substances (into the air and water), and amounts of landfill disposal.

*Data for fiscal 2011 has been revised and steps have been taken to improve the accuracy of calculation methods.
*Please refer to pages 15 and 16 for details regarding the scope of calculation of Group companies in Japan.

Targets of Group Companies in Japan

Energy Saving and Global Warming Initiatives

Asahi Chemical Co., Ltd.	· Reduce energy consumption by 20% compared with fiscal 2010 by fiscal 2015 · Improve unit CO_2 emissions from energy use by 20% compared with fiscal 2010 by fiscal 2015
Sumika-Kakoushi Co., Ltd.	· Improve unit energy consumption by 1% annually
Koei Chemical Co., Ltd.	· Improve unit energy consumption by an average of at least 1% per year
Thermo Co., Ltd.	· Improve energy consumption by 5% compared with fiscal 2010 by fiscal 2015 · Improve unit CO_2 emissions from energy use by 5% compared with fiscal 2010 by fiscal 2015
SanTerra Co., Ltd.	· Improve unit energy consumption by 5% compared with fiscal 2010 by fiscal 2015 · Improve unit CO_2 emissions from energy use by 5% compared with fiscal 2010 by fiscal 2015
Shinto Paint Co., Ltd.	· Improve energy consumption by 3% compared with fiscal 2010 by fiscal 2015 · Improve unit CO_2 emissions from energy use by 3% compared with fiscal 2010 by fiscal 2015
Sumika Color Co., Ltd.	· Improve unit energy consumption by 5% compared with fiscal 2010 by fiscal 2015 · Improve unit CO_2 emissions from energy use by 5% compared with fiscal 2010 by fiscal 2015
Sumitomo Dainippon Pharma Co., Ltd.	· Improve unit energy consumption by at least 5% compared with fiscal 2010 by fiscal 2015 · Improve unit CO_2 emissions from energy use by at least 5% compared with fiscal 2010 by fiscal 2015
Sumika Styron Polycarbonate Limited	· Improve unit energy consumption by 5% compared with fiscal 2010 by fiscal 2015 · Improve unit CO_2 emissions from energy use by 5% compared with fiscal 2010 by fiscal 2015
Sumika Bayer Urethane Co., Ltd.	· Improve unit energy consumption by 7% compared with fiscal 2010 by fiscal 2015 · Improve unit CO_2 emissions from energy use by 7% compared with fiscal 2010 by fiscal 2015
Taoka Chemical Co., Ltd.	· Improve unit energy consumption by 5% compared with fiscal 2010 by fiscal 2015 · Improve unit CO_2 emissions from energy use by 5% compared with fiscal 2010 by fiscal 2015
Nippon A&L Inc.	· Improve unit energy consumption by 5% compared with fiscal 2010 by fiscal 2015 · Improve unit CO_2 emissions from energy use by 5% compared with fiscal 2010 by fiscal 2015
Nihon Medi-Physics Co., Ltd.	· Reduce energy consumption by 1% annually · Control unit CO_2 emissions from energy use to below fiscal 2010 levels.
Nihon Oxirane Co., Ltd.	· Improve unit energy consumption by 1% annually · Improve unit CO_2 emissions from energy use by 1% annually
Sumika Agrotech Co., Ltd.	· Improve unit energy consumption by 5% compared with fiscal 2010 by fiscal 2015 · Improve unit CO_2 emissions from energy use by 5% compared with fiscal 2010 by fiscal 2015
Sumitomo Chemical Co., Ltd.	· Improve unit energy consumption by 10% compared with fiscal 2005 by fiscal 2015 · Improve unit CO_2 emissions from energy use by 15% compared with fiscal 2005 by fiscal 2020

PRTR Initiatives

Asahi Chemical Co., Ltd.	· Reduce amount of PRTR substances released (into the air and water) during manufacturing processes to zero
Sumika-Kakoushi Co., Ltd.	· Maintain amount released (into the air and water) at the fiscal 2010 level
Koei Chemical Co., Ltd.	· Control the amount of release increase to correspond to production levels
Thermo Co., Ltd.	· Maintain zero release (into the air and water)
SanTerra Co., Ltd.	· Maintain zero release (into the air and water)
Shinto Paint Co., Ltd.	· Reduce amount released (into the air and water) by 5% compared with fiscal 2010 by fiscal 2015
Sumika Color Co., Ltd.	· Reduce amount released (into the air and water) by 10% compared with fiscal 2010 by fiscal 2015
Sumitomo Joint Electric Power Co., Ltd.	· Maintain zero release (into the air and water)
Sumitomo Dainippon Pharma Co., Ltd.	· Control the amount released (into the air and water) to below fiscal 2010 levels by fiscal 2015
Sumika Styron Polycarbonate Limited	· Maintain amount released (into the air and water) at the fiscal 2010 level
Sumika Bayer Urethane Co., Ltd.	· Reduce amount released (into the air and water) by 10% compared with fiscal 2010 by fiscal 2015
Taoka Chemical Co., Ltd.	· Reduce amount released (into the air and water) by 5% compared with fiscal 2010 by fiscal 2015
Nippon A&L Inc.	· Reduce amount released (into the air and water) by 20% compared with fiscal 2010 by fiscal 2015
Nihon Medi-Physics Co., Ltd.	· Maintain amount released (into the air and water) at the fiscal 2010 level
Nihon Oxirane Co., Ltd.	· Reduce amount of molybdenum released into the water to 10 tonnes by fiscal 2015
Sumika Agrotech Co., Ltd.	· Maintain amount released (into the air and water) at the fiscal 2010 level
Sumitomo Chemical Co., Ltd.	· Reduce amount released (into the air and water) by 60% compared with fiscal 2008 by fiscal 2015

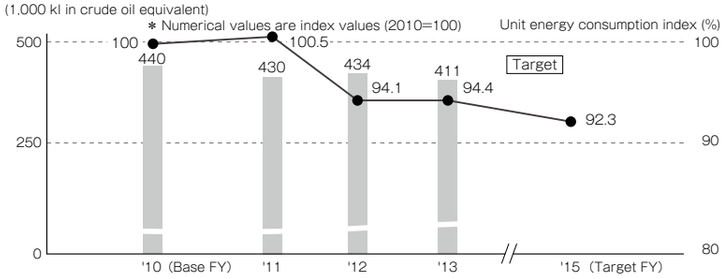
Landfill Disposal Reduction Initiatives

Asahi Chemical Co., Ltd.	· Maintain landfill disposal at the fiscal 2010 level
Sumika-Kakoushi Co., Ltd.	· Maintain landfill disposal at the fiscal 2010 level
Koei Chemical Co., Ltd.	· Reduce landfill disposal by 25% compared with fiscal 2010 by fiscal 2015
Thermo Co., Ltd.	· Reduce landfill disposal by 20% compared with fiscal 2010 by fiscal 2015
SanTerra Co., Ltd.	· Maintain landfill disposal at the fiscal 2010 level
Shinto Paint Co., Ltd.	· Reduce landfill disposal by 5% compared with fiscal 2010 by fiscal 2015
Sumika Color Co., Ltd.	· Reduce landfill disposal by 5% compared with fiscal 2010 by fiscal 2015
Sumitomo Dainippon Pharma Co., Ltd.	· Reduce landfill disposal to 1% or less of waste generated by fiscal 2015
Sumika Styron Polycarbonate Limited	· Maintain landfill disposal at the fiscal 2010 level
Sumika Bayer Urethane Co., Ltd.	· Maintain landfill disposal at the fiscal 2010 level
Taoka Chemical Co., Ltd.	· Reduce landfill disposal by 5% compared with fiscal 2010 by fiscal 2015
Nippon A&L Inc.	· Control landfill disposal to below fiscal 2010 levels
Nihon Medi-Physics Co., Ltd.	· Control landfill disposal to below fiscal 2010 levels
Nihon Oxirane Co., Ltd.	· Reduce landfill disposal by 80% compared with fiscal 2000 by fiscal 2015
Sumika Agrotech Co., Ltd.	· Reduce landfill disposal by 50% compared with fiscal 2010 by fiscal 2015
Sumitomo Chemical Co., Ltd.	· Reduce landfill disposal by 80% compared with fiscal 2000 by fiscal 2015

Individual company targets that formed the basis of the unified Group targets (determined specific target values) for the major areas of environmental preservation management were as above.

Group Companies Overseas (Target: All Works)

Energy Consumption and Unit Energy Consumption Indices



Improvement in Unit Energy Consumption

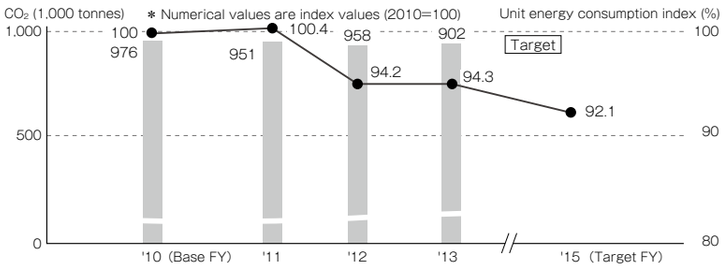
Target

Improve unit energy consumption by 7.7% compared with fiscal 2010 by fiscal 2015.

Results

Unit energy consumption in fiscal 2013 improved by 5.6 % compared with fiscal 2010.

CO_2 Emissions (Energy use) and Unit CO_2 Emissions Indices



Improvement in Unit CO_2 Emissions

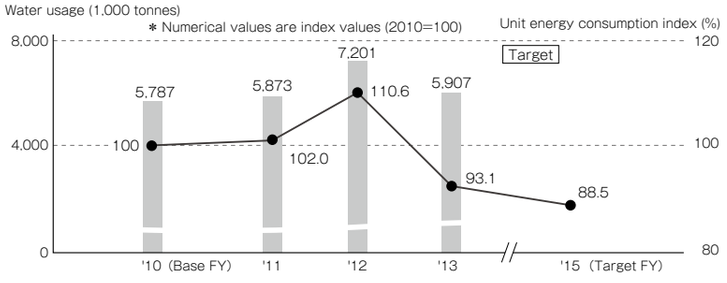
Target

Improve unit CO_2 emissions by 7.9% compared with fiscal 2010 by fiscal 2015.

Results

Unit CO_2 emissions in fiscal 2013 improved by 5.7 % compared with fiscal 2010.

Water Usage and Unit Water Usage Indices



Improvement in Unit Water Usage

Target

Improve unit water usage by 11% compared with fiscal 2010 by fiscal 2015.

Results

Unit water usage in fiscal 2013 improved by 6.9% compared with fiscal 2010.

For all 10 principal Group companies overseas, unified quantitative targets for fiscal 2015, corresponding to the indicators for Group companies in Japan, were established with regard to unit energy consumption, unit CO_2 emissions, and unit water usage. The Group companies overseas are proactively taking initiatives to achieve these targets.

* Data for each of the past fiscal years (2010 to 2012) has been revised with steps taken to improve the accuracy of calculation methods.

These figures reflect the totals for the following ten Group companies overseas:

Singapore
- Sumitomo Chemical Singapore Pte Ltd.
- The Polyolefin Company (Singapore) Pte. Ltd.

Thailand (Bangkok, Samutprakarn)
- Sumipex (Thailand) Co., Ltd.
- Bara Chemical Co., Ltd.

China (Dalian, Wuxi)
- Dalian Sumika Chemphy Chemical Co., Ltd.
- Sumika Electronic Materials (Wuxi) Co., Ltd.

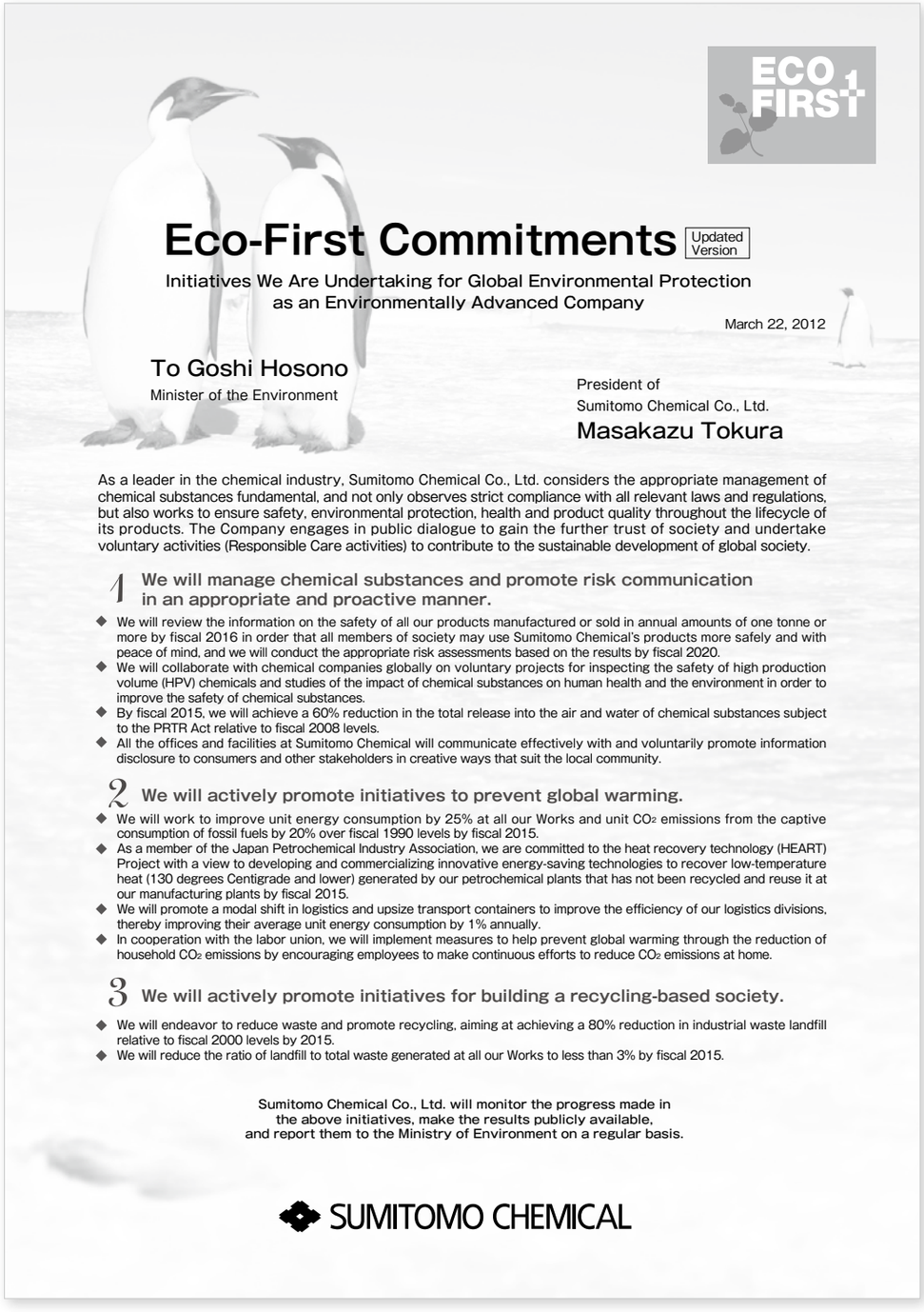
Taiwan (Kaohsiung, Tainan)
- Sumipex TechSheet Co., Ltd.
- Sumika Technology Co., Ltd.

India (Mumbai)
- SC Enviro Agro India Private Ltd.

South Korea (Seoul)
- Dongwoo Fine-Chem Co., Ltd.

6 Eco-First Commitments

In March 2012, Sumitomo Chemical reported the progress and results of its efforts to fulfill the Eco-First Commitments to the Japanese Minister of the Environment while announcing its Eco-First Commitments Updated Version.



ECO FIRST

Eco-First Commitments Updated Version

Initiatives We Are Undertaking for Global Environmental Protection as an Environmentally Advanced Company

March 22, 2012

To Goshi Hosono
Minister of the Environment

President of
Sumitomo Chemical Co., Ltd.
Masakazu Tokura

As a leader in the chemical industry, Sumitomo Chemical Co., Ltd. considers the appropriate management of chemical substances fundamental, and not only observes strict compliance with all relevant laws and regulations, but also works to ensure safety, environmental protection, health and product quality throughout the lifecycle of its products. The Company engages in public dialogue to gain the further trust of society and undertake voluntary activities (Responsible Care activities) to contribute to the sustainable development of global society.

1 We will manage chemical substances and promote risk communication in an appropriate and proactive manner.

- We will review the information on the safety of all our products manufactured or sold in annual amounts of one tonne or more by fiscal 2016 in order that all members of society may use Sumitomo Chemical's products more safely and with peace of mind, and we will conduct the appropriate risk assessments based on the results by fiscal 2020.
- We will collaborate with chemical companies globally on voluntary projects for inspecting the safety of high production volume (HPV) chemicals and studies of the impact of chemical substances on human health and the environment in order to improve the safety of chemical substances.
- By fiscal 2015, we will achieve a 60% reduction in the total release into the air and water of chemical substances subject to the PRTR Act relative to fiscal 2008 levels.
- All the offices and facilities at Sumitomo Chemical will communicate effectively with and voluntarily promote information disclosure to consumers and other stakeholders in creative ways that suit the local community.

2 We will actively promote initiatives to prevent global warming.

- We will work to improve unit energy consumption by 25% at all our Works and unit CO_2 emissions from the captive consumption of fossil fuels by 20% over fiscal 1990 levels by fiscal 2015.
- As a member of the Japan Petrochemical Industry Association, we are committed to the heat recovery technology (HEART) Project with a view to developing and commercializing innovative energy-saving technologies to recover low-temperature heat (130 degrees Centigrade and lower) generated by our petrochemical plants that has not been recycled and reuse it at our manufacturing plants by fiscal 2015.
- We will promote a modal shift in logistics and upsize transport containers to improve the efficiency of our logistics divisions, thereby improving their average unit energy consumption by 1% annually.
- In cooperation with the labor union, we will implement measures to help prevent global warming through the reduction of household CO_2 emissions by encouraging employees to make continuous efforts to reduce CO_2 emissions at home.

3 We will actively promote initiatives for building a recycling-based society.

- We will endeavor to reduce waste and promote recycling, aiming at achieving a 80% reduction in industrial waste landfill relative to fiscal 2000 levels by 2015.
- We will reduce the ratio of landfill to total waste generated at all our Works to less than 3% by fiscal 2015.

Sumitomo Chemical Co., Ltd. will monitor the progress made in the above initiatives, make the results publicly available, and report them to the Ministry of Environment on a regular basis.

SUMITOMO CHEMICAL

●DATA BOOK Editorial Policy

This Data Book serves to complement the Company's CSR REPORT and provides quantitative details with respect to Sumitomo Chemical's Responsible Care activities. As a report, it is also designed to improve the understanding of all stakeholders.
In selecting published data, we have included past information to provide readers with a background to the Company's activities. Information has therefore been provided in as exhaustive a manner as possible.
It is the wish of this Company that the report will pique the interest of an increasing number of stakeholders in the activities of Sumitomo Chemical and the Group as a whole.

●Scope of the Report

Each chart, table, and graph has been clearly marked to identify the scope of reporting data. The scope of data encompasses either or a combination of Sumitomo Chemical (non-consolidated), Group companies in Japan, and Group companies overseas. In addition, the names of relevant companies have been clearly identified as a notation for Group company data.

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