

CSR Report 2016 Corporate Social Responsibility Report

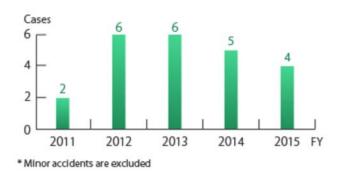
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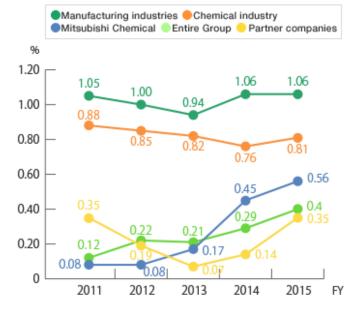
Data Safety Data

- ▶ Number of facility-related accidents (Mitsubishi Chemical Corporation Group (MCC Group))
- Lost-time injury frequency/severity rate
- Categories of lost-time injury accidents (MCC Group)
- Percentage of specific health guidance (MCC)
- ▶ Number of illness-related workday absences (MCC in fiscal 2015)
- ▶ Investments and expenses for accident prevention and safety (MCC)

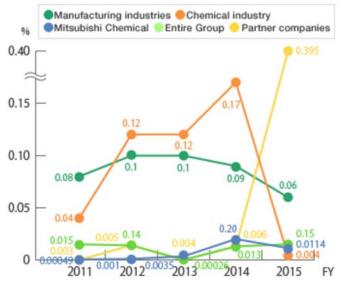
Number of facility-related accidents (Mitsubishi Chemical Corporation Group (MCC Group))



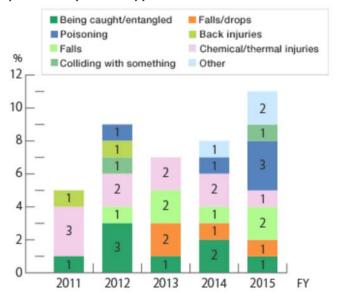
- ▶ See the Process Safety and Disaster Prevention page for details
- Lost-time injury frequency/severity rate
 - 1) Lost-time injury frequency



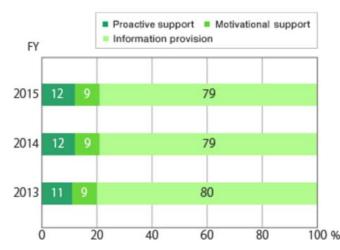
2) Lost-time injury severity rate



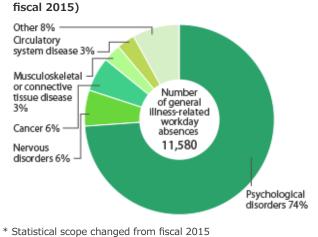
- See Occupational safety and health page for details
- Categories of lost-time injury accidents (MCC Group)







Number of illness-related workday absences (MCC in



See Occupational safety and health page for details

Investments and expenses for accident prevention and safety (MCC)

(million yen)

Accident preventi	2014	2015	
Category	Main implementation items	ms Inve	
Cost of legal responses relating to accident prevention and safety	Earthquake countermeasures, installation and maintenance of new fire prevention and fire extinguishing facilities, legal inspections, etc.	1,202	1,119
Cost of voluntary risk management responses relating to accident prevention and safety	Tighter security for manufacturing facilities, repair expenses associated with accident prevention and safety, purchase of nitrogen for accident prevention, etc.	6,570	9,446
Accident prevention and safety costs in management activities	Operation of the organization for accident prevention and safety countermeasures	524	623
Т	otal	8,296	11,190

Data Environmental Data

- Preventing air and water pollution
- ▶ Total phosphorus and nitrogen emissions
- Breakdown of water consumption (excluding seawater)
- ▶ Energy consumption (Mitsubishi Chemical Corporation (MCC))
- Greenhouse gas emissions
- ▶ 5 Greenhouse gases emissions (MCC Group)
- Actual reduction in unit energy consumption (MCC)
- ▶ Breakdown of transport volumes by transport mode in fiscal 2015 (MCC)
- PRTR-regulated substances discharge volume
- ▶ VOC discharge
- Industrial waste emissions and the recycling ratio
- ▶ Volume of industrial waste ultimately disposed of as landfill and ratio of industrial waste ultimately disposed of as landfill (MCC Group)
- Waste processing flow (including transient construction wastes)
- Material flow (MCC)

NOx emissions

6,000

4,000

2,000

- Investments and expenses for the environment (MCC)
- ▶ Prevention of air and water pollution by overseas MCC Group companies
- ▶ Water consumption (excluding seawater) by overseas MCC Group companies
- ▶ Volume of industrial waste generated by overseas MCC Group companies

Preventing air and water pollution

t 20,000 | 18,000 | 16,000 | 12,000 | 17,700 | 8,800 | 9,170 | 8,120 | 7,130 | 6,360

7.100

2012

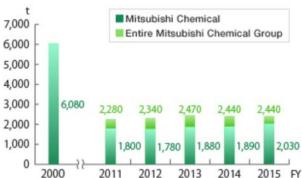
2013

2014

2015

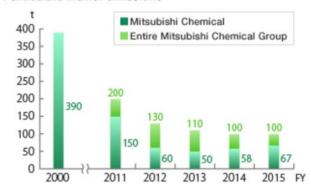
2011

SOx emissions

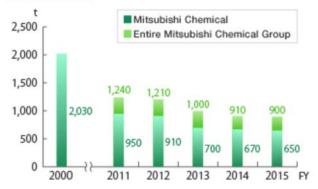




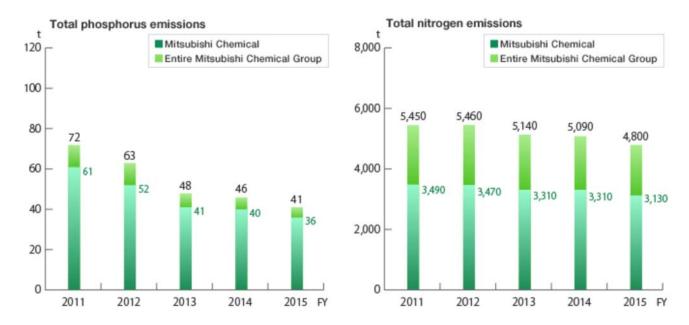
2000



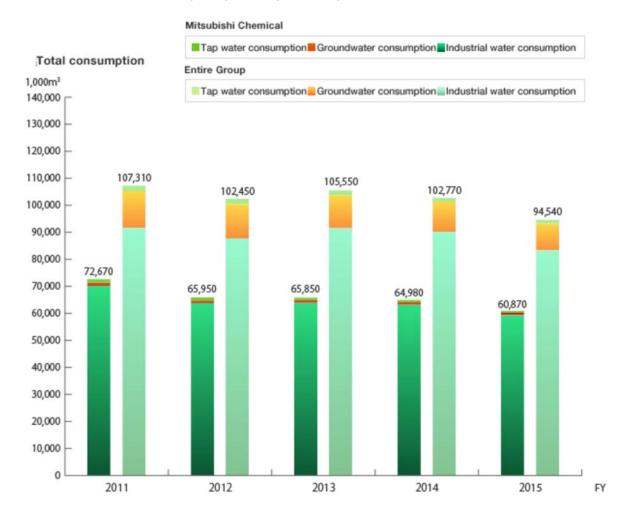
COD emissions



Total phosphorus and nitrogen emissions



Breakdown of water consumption (excluding seawater)



Breakdown of water consumption (MCC)

1,000m³

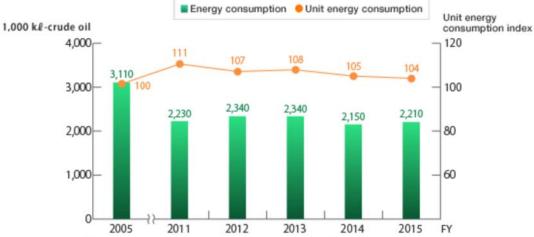
	2011	2012	2013	2014	2015
Total consumption	72,670	65,950	65,850	64,980	60,870
Tap water consumption	1,220	1,110	930	820	660
Groundwater consumption	1,220	1,000	1,000	970	950
Industrial water consumption	70,230	63,840	63,920	63,200	59,260

Breakdown of water consumption (MCC Group)

1,000m³

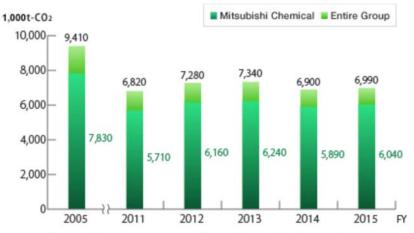
	2011	2012	2013	2014	2015
Total consumption	107,310	102,450	105,550	102,770	94,540
Tap water consumption	1,980	1,900	1,750	1,370	1,210
Groundwater consumption	13,720	12,770	12,260	11,150	10,030
Industrial water consumption	91,610	87,780	91,540	90,250	83,300

Energy consumption (MCC)



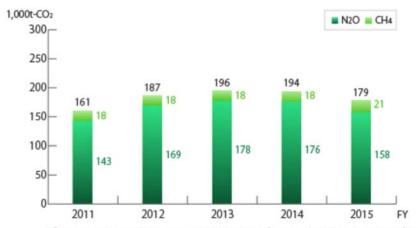
 $\ensuremath{^{\star}}\xspace$ The data above is based on the periodic report from MCC. The data of Group companies is not included.

Greenhouse gas emissions



*For greenhouse gas emissions, as the result of a detailed examination on the inclusion of heat-trapped gases not subject to reporting under the law in addition to reporting values stipulated in the Act on promotion of Global Warming Countermeasures, figures not included at Group companies were found, and in the FY2012 version of the graph, retroactive corrections have been made to add these figures to past data.

5 Greenhouse gases* emissions (MCC Group)



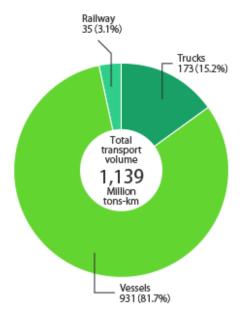
*Gases: methane, dinitrogen monoxide, hydrofluorocarbon (yearly volume filled), perfluorocargon (yearly volume filled), sulfur hexafluoride

Actual reduction in unit energy consumption (MCC)

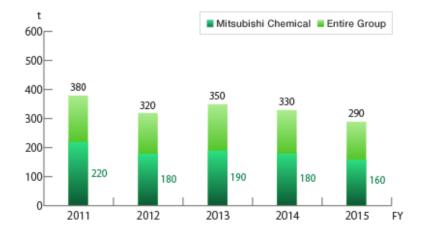
FY		2011	2012	2013	2014	2015
Energy consumption	GJ	716,823	725,407	756,777	780,237	770,630
Fuel consumption (converted to crude oil)	K٤	18,494	18,716	19,525	20,130	19,880
Transport volume	Million tons-km	1,023	1,076	1,132	1,134	1,139
CO ₂ emissions	t-CO ₂	49,500	1%increase 50,100	4%increase 52,300	3%increase 53,900	1%reduction 53,300
Unit energy consumption	Kl/million tons-km	18.1	3.9%reduction 17.4	0.8%reduction 17.3	2.9%increase 17.7	1.7%reduction 17.5

^{*} Figures are consumption units excluding return voyages by empty vessels.

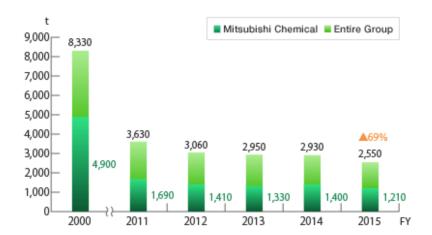
Breakdown of transport volumes by transport mode in fiscal 2015 (MCC)



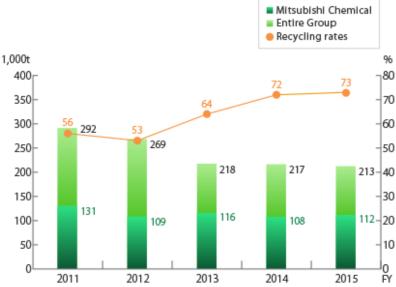
PRTR-regulated substances discharge volume



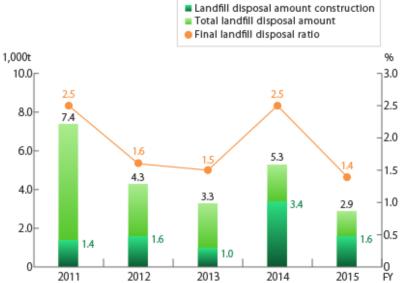
VOC discharge



Industrial waste emissions and the recycling ratio

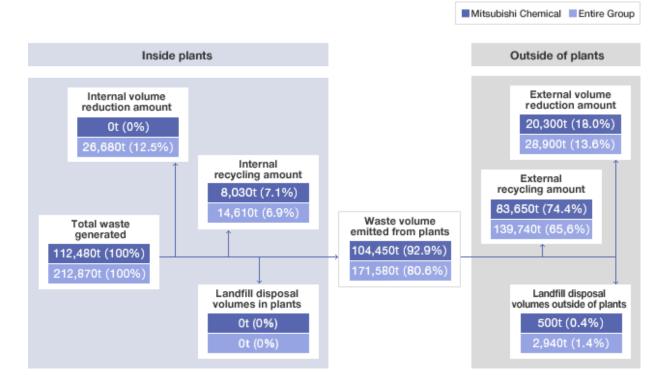


- * In fiscal 2013 and fiscal 2014, the treatment volume related to the industrial waste treatment business is outside the scope of aggregation
- Volume of industrial waste ultimately disposed of as landfill and ratio of industrial waste ultimately disposed of as landfill (MCC Group)

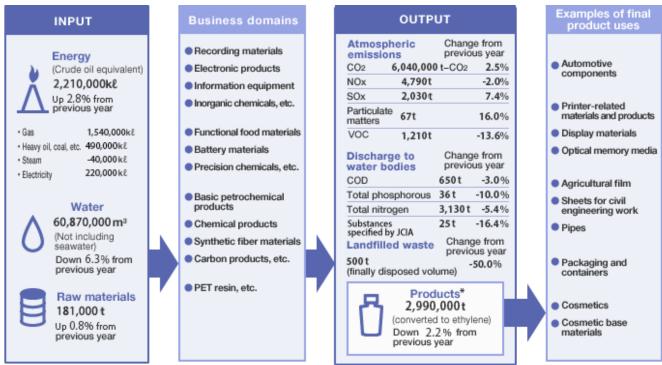


^{*} In fiscal 2013 and fiscal 2014, the treatment volume related to the industrial waste treatment business is outside the scope of aggregation

Waste processing flow (including transient construction wastes)



Material flow (MCC)



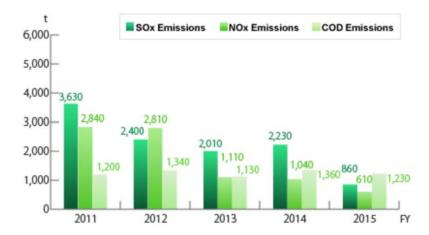
^{*} The base year for the calculation of production volume (ethylene equivalent) has been changed from the former 1990 to 2005.

Investments and expenses for the environment (MCC)

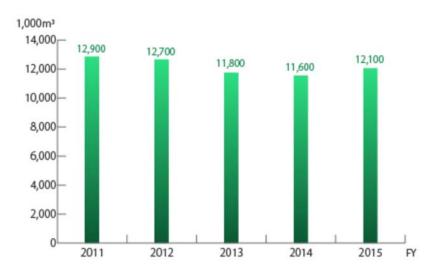
(million yen)

Environm	ental conservatio	on costs	201	4	2015		
Catego	ry	Main initiatives	Investment amount	Expenses	Investment amount	Expenses	
Environmental conservation costs for suppressing environmental load	1. Pollution prevention costs	Prevention of Air pollution Dust collection system augmentation and particulate matter reduction Prevention of water pollution Wastewater management improvement, etc.	4,012	15,067	933	13,527	
generated in business areas due to production and service activities	2. Global environmental conservation costs	CO ₂ emissions reduction, operational improvement, etc	23	699	0	650	
	3. Resource recycling costs	Industrial waste reduction, proper waste disposal, resource conservation, energy conservation, etc.	527	4,151	132	4,005	
Environmental conservation costs in management activities		Operation of unit addressing environmental conservation ISO 14001 compliance and renewal national exams, environmental education, etc.	0	810	0	798	
Environmental conservation costs in R&D activities		R&D for increased productivity, etc.	0	1,635	0	253	
Environmental conservation costs in social contribution activities		Installation and upkeep of factory green spaces	8	355	10	304	
Costs for dealing with environmental damage		Cleanup of contaminated soil, etc.	0	12	0	12	
Other environmental co	nservation costs	SOx surcharges	0	462	0	428	
	Total		4,570	23,192	1,075	19,977	

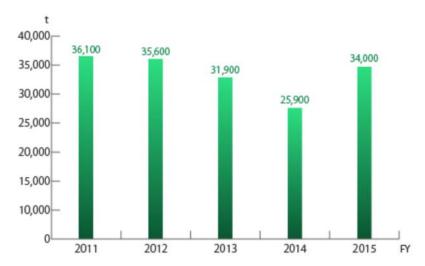
Prevention of air and water pollution by overseas MCC Group companies



Water consumption (excluding seawater) by overseas MCC Group companies



Volume of industrial waste generated by overseas MCC Group companies



- ▶ Find out more about overseas MCC Group companies
- * However, only overseas MCC Group companies that are promoting RC activities and that are subsidiaries of MCC as stipulated by the Japanese Companies Act (ones with \bigcirc) are included in the scope of the Group performance data collection.

Social Data

- ▶ Employee composition (fiscal 2015) *Only MCC-registered employees
- ▶ Actual use of open recruitment, in-house free agencies, and in-house internships
- Number of people who consulted career counselors
- ▶ Target values and results of Women's Initiative & Work Innovation (WIN-WIN) Plan (%)
- Status of use of systems for work-life balance
- ▶ Change in employment ratio of people with disabilities
- ▶ Change in overtime and holiday work hours (regular daytime workers)
- ► Change in number of paid vacation days taken (general workers)
- ▶ Change in the ratio of life support holiday system taken (general workers)
- ▶ Human rights enlightenment activities given
- ▶ Results of questionnaire after Group Human Rights Training (2015)
- Employee composition (fiscal 2015) *Only MCC-registered employees

Number of employees	8,552
Male	7,387
Female	1,165

Number hired (clerical)	16
Number hired (technical)	38
Number hired (total)	54
Number retired	122

^{*} Number of new graduates hired

Number of people who consulted career counselors



Actual use of open recruitment, in-house free agencies

Actual use of	open recruitment,	in-nouse free agencies,	
and in-house	internships		
			,

Title		2012	2013	2014	2015
Open recruitment	Programs offered (people)	4	13	4	20
	Applicants (people)	18	32	24	23
	Accepted (people)	4	12	4	12
In-house free agent (people)		2	1	0	1
In-house internship (people)		1	1	1	0

Target values and results of Women's Initiative & Work Innovation (WIN-WIN) Plan (%)

						FY
Item		2012	2013	2014	2015	Target values ※
Ratio of among n	women nanagement	5.3	5.8	6.3	6.5	over 20
Ratio of women	Clerical	36	44	31	50	over 40
among new hires	Engineering	8	18	15	29	over 20

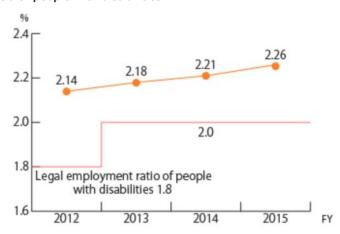
* The target for ratio of women among management is for fiscal 2025 and for women among new hires is for fiscal 2015. The result for ratio of women among management is as of April 1

Status of use of systems for work-life balance

System	2012	2013	2014	2015
Child-raising leave (people)	110	99	100	97
Shorter work hours while raising a child (people)	218	210	195	195
Nursing care leave (people)	6	6	4	1
Shorter work hours while providing nursing care to family members (people)	4	5	4	3
Fertility treatment leave (people)	0	0	1	0
Subsidy for fertility treatment (cases)	56	56	71	56
Leave to accompany spouse's overseas assignment (people)		3	1	2
Temporary suspension of transfer (people)		0	0	0
Declaration of desired place of work (people)	0	1	1	0

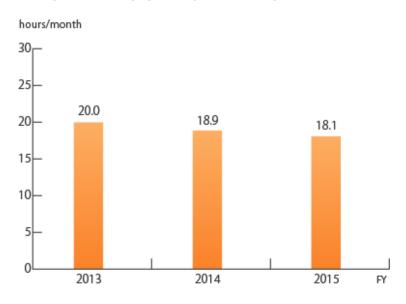
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Change in employment ratio of people with disabilities

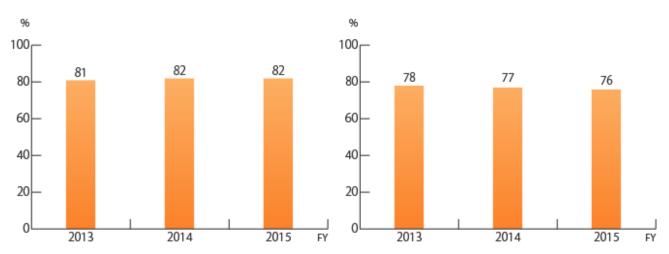


^{*} Includes companies to which Mitsubishi Chemical's system of disabled person employment ratio applies.

Change in overtime and holiday work hours (regular daytime workers)



Change in number of paid vacation days taken (general • Change in the ratio of life support holiday system taken workers)



Human rights enlightenment activities given

						1 1
Training description			2012	2013	2014	2015
Group seminars	Number of times	556	450	446	418	
	Number of people	11,611	8,710	8,925	8,028	
Human righ	its slogans	Number of cases	18,245	17,351	13,907	13,501

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Results of questionnaire after Group Human Rights Training (2015)



▶ See the Together with Employees page for details