

# CSR Report of Mie Plant

Main products : Tires for trucks and buses, light trucks and passenger cars  
 Total site area : 264,000 m<sup>2</sup>  
 Number of employees : 943 (as of June 2009)  
 Location : 1038, Takabuku, Misono-cho, Ise-shi, Mie  
 516-8530, Japan  
 Tel: +81-596-28-3151



## Message from the General Manager



Yoshito Mochinaga

Following a first-phase tree-planting ceremony as part of the "YOKOHAMA Forever Forest" project in May 2008, the Mie Plant staged a second-phase event in June 2009. Combined with existing heat insulation, we have installed 15,000 sheets of self-made lagging material, thus helping cut CO<sub>2</sub> emissions, saving energy and contributing to disaster prevention. We also continued zero emissions by reducing total industrial waste emitted in the production process to one tenth over the past three years and by endeavoring to avoid wasteful use of resources. In terms of interaction with the local

community, and in order to thrive together with local residents, we have held Environmental Opinion Meetings with residents twice a year, bringing the plant and the local people closer in terms of specific actions to improve the living environment. We also carried out activities to improve the environment in local communities, including cleaning up areas around the plant and rivers, planting trees along Ise Bay, conducting a green fund-raising drive in front of stations, and improving the tidal mud flats. With all employees working together, the Mie Plant will continue to take proactive steps to improve the environment in Ise City, where Ise Shrine is located.

## Environmental Policy in FY2009

**Our goal is to be a plant asserting world-class strengths in technologies for protecting the environment, according to the norm of "dealing fairly with society and valuing harmony with the environment," which is declared in the management policy of the company.**

- (1) The Mie Plant works on measures taking the environment into consideration in all areas of our business.
- (2) In order to remain trusted by the community, we will strengthen our environmental management system and continue our efforts to prevent environmental pollution and improve the environment.
- (3) We promote conservation of energy, reduction of waste and recycling for the sake of resource conservation.
- (4) We observe applicable laws and regulations, and agreements, and carry out environmental preservation activities accordingly.
- (5) Embodying this policy, we have defined an environmental purpose, set environmental targets, formulated an environmental plan, all of which will be regularly reviewed, and are implementing the policy systematically.
- (6) We educate and enlighten all employees at the Mie Plant so that they fully understand the policy, and improve their own awareness and actions.
- (7) We strive to harmonize with and fuse into the natural environment of Ise City, where Ise Shrine is located, and to thrive together with local residents.
- (8) This commitment is released to the public upon request.

## Major Interational Activities with the Local Community

### Participation in the Tanabata Clean-up of the Seta River

In July 2008, 250 employees participated as volunteers in the Tanabata Clean-up of the Seta River, which is held every July as part of a campaign by Ise City.

### Environmental Opinion Meetings

In June and November 2008, we had dialogue meetings with local residents, providing opportunities to better understand each other, and for them to understand our environmental activities, inviting a total of 44 representatives from the Ise City assembly and administration, and local residents associations in neighboring areas.

### Participation in the Green Fund Campaign

In May 2008, in cooperation with a green fund campaign by the Mie Prefecture Urban Greenery Promotion Council, 23 employees engaged in fundraising on the street at Uji-Yamada and Ise-shi Stations.



Employees cleaning areas along the Seta River



Informal environmental talks



Employees fundraising on the street

## Training for Environmental Risks

### Oil Recovery Drills

Drills were conducted in March and August 2008, involving a total of 69 employees.

### Joint Disaster Prevention Drill with the Ise Fire Department.

In July 2009, an emergency drill was conducted jointly by 70 members of the Mie Plant's fire brigade and 20 firefighters from the Ise City Fire Department, under a scenario where in there were injuries due to a fire at the rubber recycling workplace, and a collapsed building, following an earthquake registering 6-plus on the Japanese seismic scale.



Members of the plant fire brigade spraying water



Firefighters giving lifesaving training to fire brigade members

The "YOKOHAMA Forever Forest" project is creating forests by planting a total of 500,000 trees at production sites in Japan and around the world in anticipation of the company's 100th anniversary in 2017. Started with a tree-planting ceremony at the Hiratsuka Factory in November 2007, the project is now fully underway.



- May 2008: First-Phase Tree-Planting Ceremony (800 participants; 5,500 trees planted)
- June 2009: Second-Phase Tree Planting Ceremony (500 participants; 3,800 trees planted)

## Environmental Data

### PRTR substances

(Unit: tons/year)

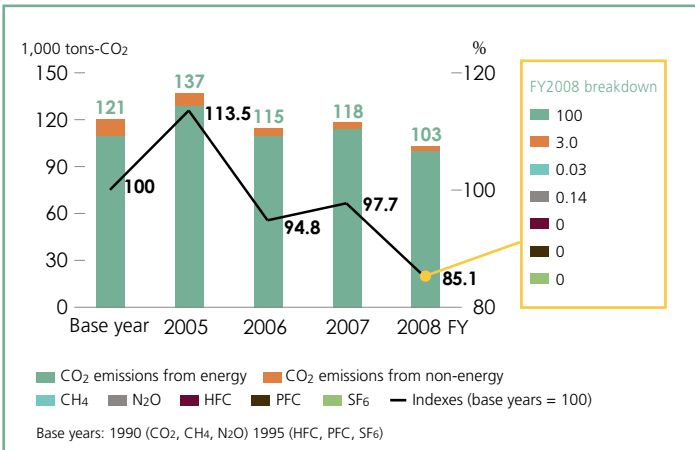
Designated No.	Specified chemical substance	Amount to treat <sup>1</sup>	Emission <sup>2</sup>	Transfer <sup>3</sup>	Safety Evaluation: VI-2			
					Toxicity Rank (effect on people)	Annual Converted Emissions (effect on people)	Toxicity Rank (effect on ecosystem)	Annual Converted Emissions (effect on ecosystem)
282	N-(tert-butyl)-2-benzothiazolesulfenamide	560	0	3.7	D	0	A	0
115	N-cyclohexyl-2-benzothiazolesulfenamide	100	0	1.4	D	0	A	0
100	Cobalt and its compounds	28	0	0.31	A	0	—	0
63	Xylene	9.3	1.1	0	C	11	A	1100
227	Toluene	1.7	2.0	0	C	20	D	2.0
40	Ethylbenzen	1.9	0.32	0	C	3	A	320
253	Hydrazine	1.7	0.001	0	A	1	A	1
310	Formaldehyde	1.6	0	0	A	0	C	0
299	Benzene	1.0	0.001	0	A	1	D	0.001
179	Dioxin	—	(0.026)	—	A	—	—	—
	<b>Total</b>	<b>705</b>	<b>3.4</b>	<b>5.4</b>		<b>36</b>		<b>1423</b>

\*1: Amounts of 1 ton or more are listed (excluding dioxin). As for substances designated as Class 1 Specified Chemicals such as benzene, amounts of 0.5 tons or more are listed.

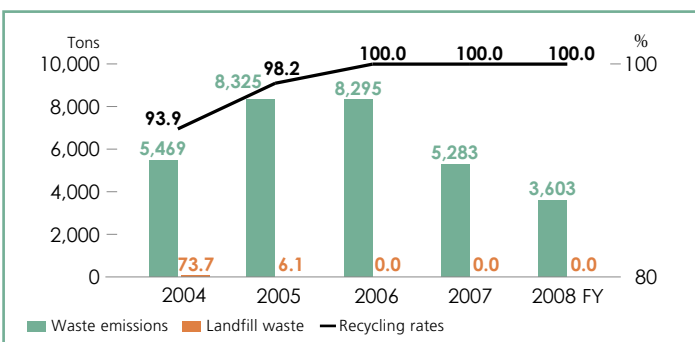
\*2: Emission = Air + public water + soil

\*3: Transfer = Waste + public sewage

### Combined greenhouse gas emissions and their indices (base years = 100)



### Waste emissions, landfill disposal and recycling rates



### Air-quality-related data (major facilities)

Facility	Substance	Regulation	Self-imposed control value	FY2008 result		
				Average	Maximum	Minimum
Mie Plant Cogeneration 1	Sulfur oxide emissions (m <sup>3</sup> N/h)	3.4	0.1	Less than 0.1	Less than 0.1	Less than 0.1
	Nitrogen oxide density (ppm)	100	90	47	68	20
	Soot and dusts density (g/m <sup>3</sup> N)	0.05	0.05	Less than 0.001	Less than 0.002	Less than 0.001
Mie Plant Cogeneration 2	Sulfur oxide emissions (m <sup>3</sup> N/h)	3.4	0.1	Less than 0.1	Less than 0.1	Less than 0.1
	Nitrogen oxide density (ppm)	100	90	56	83	15
	Soot and dusts density (g/m <sup>3</sup> N)	0.05	0.05	0.003	0.003	Less than 0.001
Mie Plant Boiler 3	Sulfur oxide emissions (m <sup>3</sup> N/h)	1.0	0.1	No data measured due to suspension of operations at the facility		
	Nitrogen oxide density (ppm)	130	120			
	Soot and dusts density (g/m <sup>3</sup> N)	0.1	0.05			
Mie Plant Boiler 4	Sulfur oxide emissions (m <sup>3</sup> N/h)	1.5	0.1	Less than 0.1	Less than 0.1	Less than 0.1
	Nitrogen oxide density (ppm)	130	120	89	89	89
	Soot and dusts density (g/m <sup>3</sup> N)	0.1	0.05	Less than 0.001	Less than 0.001	Less than 0.001
Mie Plant Drying furnace 1	Sulfur oxide emissions (m <sup>3</sup> N/h)	3	No self-imposed control values were established because facility operations were stopped in December 2008.	Less than 0.1	Less than 0.1	Less than 0.1
	Nitrogen oxide density (ppm)	250		24	42	10
	Soot and dusts density (g/m <sup>3</sup> N)	0.1		0.002	0.003	Less than 0.001
Mie Plant Drying furnace 2	Sulfur oxide emissions (m <sup>3</sup> N/h)	3	5	Less than 0.1	Less than 0.1	Less than 0.1
	Nitrogen oxide density (ppm)	250	125	18	25	10
	Soot and dusts density (g/m <sup>3</sup> N)	0.1	0.15	0.002	0.004	Less than 0.001
Mie Plant Incineration	Sulfur oxide emissions (m <sup>3</sup> N/h)	6.2	5	3.0	5.1	0.8
	Nitrogen oxide density (ppm)	250	125	71	77	59
	Soot and dusts density (g/m <sup>3</sup> N)	0.3	0.15	0.005	0.014	Less than 0.001

\*According to the Air Pollution Prevention Law and the Environmental Pollution Prevention Agreement with Ise City. Again no violations of regulations in FY2008.

\*If values are beyond self-imposed control values, causes thereof are promptly identified and actions are taken to return them to the normal range.

### Water-quality-related data (major facilities)

Drain	Substance	Regulation	Self-imposed control value	FY2008 result		
				Average	Maximum	Minimum
Mie Plant Drain 1	PH	6.0~8.0	6.5~7.7	7.5	8.2	7.0
	BOD density (mg/l)	20	10	2.2	8.6	0.8
	COD density (mg/l)	20	10	1.8	2.9	1.1
	SS density (mg/l)	40	20	1.3	2.0	Less than 1
	Oil density (mg/l)	2	1.6	Less than 0.5	Less than 0.5	Less than 0.5
Mie Plant Drain 2	PH	6.0~8.0	6.5~7.7	7.5	7.7	7.2
	BOD density (mg/l)	20	10	1.3	1.5	0.9
	COD density (mg/l)	20	10	1.6	2.4	1.2
	SS density (mg/l)	40	20	1.4	3.0	Less than 1
	Oil density (mg/l)	2	1.6	0.7	0.8	Less than 0.5

\*In FY2008, during a periodic water measurement at drain 1 of the Mie Plant on August 5, the result was beyond the value agreed under an Environmental Pollution Prevention Agreement with Ise City. While contacting the city about it, we identified the cause and implemented corrective measures, resulting in quick restoration.

\*If values are beyond self-imposed control values, causes thereof are promptly identified and actions are taken to return them to the normal range.