

# CSR Report of Mishima Plant

**Business activities:** Production of tires for passenger cars, race cars and light trucks  
**Total site area:** 112,000m<sup>2</sup>  
**Number of employees:** 918 (as of December 31, 2011)  
**Location:** 8-1 Minami-Futsuka-machi, Mishima City, Shizuoka 411-0832, JAPAN

**Contact for consultation and complaints:**

Administration Section  
 Tel: +81-55-975-0800



## Message from the General Manager



Akiyoshi Sugiyama

The Mishima Plant is located in Mishima City, at the base of Izu Peninsula in the eastern part of Shizuoka Prefecture, and is endowed with abundant water and greenery. The Mishima Plant mainly manufactures tires for passenger cars and tires for light trucks and also manufactures racing tires for motor sports. CSR activities are the foundation of corporate activities and the plant considers such CSR tasks as "Advancement of Environmentally Friendly Management," "safe and healthy workplace environment," "safety and quality of

products and services," "corporate governance and compliance," "human rights and labor practices," "credibility with our business partners" and "communication with stakeholders," and taking into account specific respective roles and operations, we operate the plant, setting the major tasks of the plant policy as "safety," "environment," "quality," "delivery date and flow," "cost" and "human asset development".

We strive to build a relationship of trust with all interested parties as the core plant of Yokohama Rubber Corporation that aims to be "a company having world-class strengths in technologies for protecting the environment".

## Advancement of Environmentally Friendly Management

### Environmental management

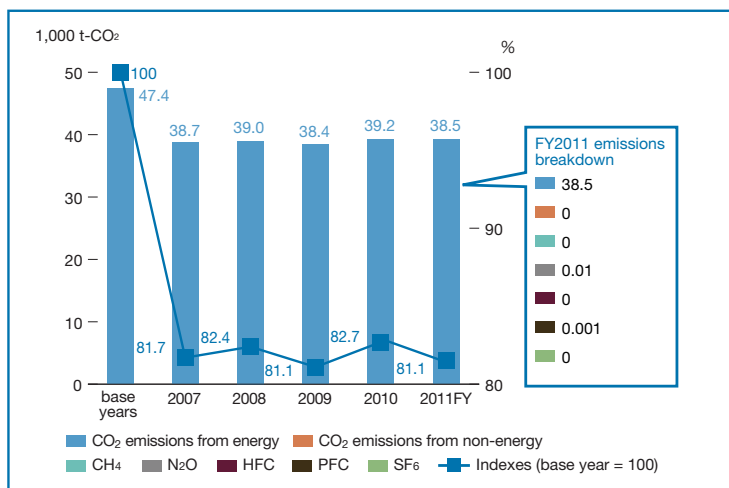
We declared an environmental policy, adopting the ISO14001 Environmental Management System and setting "Deal fairly with society and value harmony with the environment" as our standard. In order to reduce environmental loads, we established reducing industrial waste and reducing greenhouse gas emissions as major tasks and actively strive to improve our production process and eliminate energy waste. For other efforts, we established autonomous management targets to respond to legal regulations and operate within the autonomous management targets. For efforts of sensory nuisances such as noise, vibration and odor, we have asked some people living near the plant to participate as environmental monitors and we conducted a report of the status and a hearing from the residents at the time of visits three times a year as part of an effort to lead improvements.

Among our efforts at regional communication, we carry out cleanup of the area around the plant once a week and we have continuously participated in "Service Work to Make Rivers in Mishima Clean," "Seseragi Route Cleanup Service Work" and "Obagawa Riverbed Cleanup Service Activities" sponsored by the Mishima District Environmental Preservation Promotion Council. For "YOKOHAMA Forever Forest" project, a company-wide activity, in addition to a planting event at the plant, we continued to donate seedlings to "Numazu Forest Building" promoted by Numazu City following 2010.

As a new effort at biodiversity conservation, in FY2012, we started a biodiversity survey upstream and downstream of the plant and will utilize the survey for the future environmental preservation activities. In order to improve environmental awareness and more deeply understand the environmental knowledge of employees, staff and supervisors have mainly participated in the Eco Test (Certification Test for Environmental Specialists) sponsored by The Tokyo Chamber of Commerce and Industry since the 2nd test and sixty-one employees of the plant have been certified.

### Environmental data

#### Reduce greenhouse gas emission



\* Base year is defined as 1990 except for HFC, PFC and SF<sub>6</sub>, where the base year is 1995 as per the Kyoto Protocol.

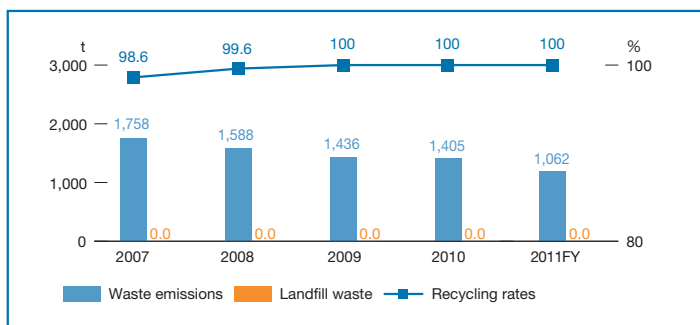
\* Greenhouse gases (GHG) calculated in accordance with the Calculation and Reporting Manual for Greenhouse Gas Emissions (Ministry of the Environment, Ministry of the Economy, Trade and Industry). Note that GHG emissions associated with purchased power in FY2009 were calculated using the table of Emission Coefficients by Power Company (Ministry of the Environment).

\* In FY2011, as the closing of accounts period was April to December, it is counted from January to December, by duplicating the data from January to March.



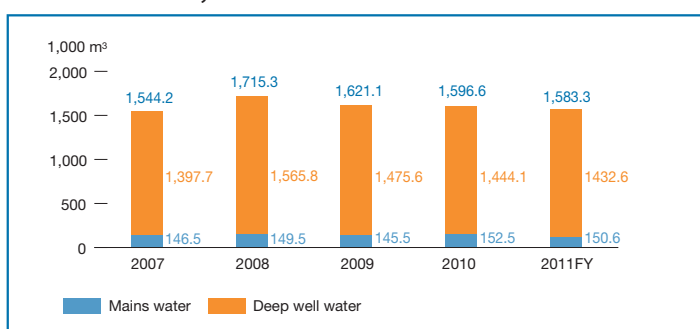
## Effective use of resources/ Reduction of waste

### Waste output



### Use of water

The plant uses 90% of its total water usage from underground water. The remainder is from city waterworks.



## Measures for discharge into water, air and soil

### Data related to water contamination

The water used at the plant is discharged into the Gotengawa River after being treated in the plant's treatment facilities.

Substance	Regulation	Self-imposed control value	FY2011 result		
			Average	Maximum	Minimum
PH	★5.8~8.6	6.2~8.2	7.7	7.9	7.3
BOD density (mg/l)	15	8	1.2	2.3	0.6
COD density (mg/l)	★120	10	1.6	2.7	0.8
SS density (mg/l)	20	10	1.5	4.0	Less than 1.0
Oil density (mg/l)	2	1.5	Less than 1.0	Less than 1.0	Less than 1.0

\* Agreement on Environmental Protection with Mishima City; Star marks are according to the Water Pollution Prevention Law. (regulation value of BOD is the max. density)

\* Discharge point: Goten River

### Air pollutants (NOx, SOx)

Substance	NOx	SOx
Amount of emission (t/year)	22	-

Facility	Substance	Regulation	Self-imposed control value	FY2011 result		
				Average	Maximum	Minimum
Mishima Plant Cogeneration	Nitrogen oxide density (ppm)	150	50	19	26	16
	Soot and dusts density (g/m³N)	0.1	0.03	Less than 0.001	Less than 0.001	Less than 0.001
Mishima Plant Boiler	Nitrogen oxide density (ppm)	150	80	26.5	38	15
	Soot and dusts density (g/m³N)	0.1	0.05	Less than 0.001	Less than 0.001	Less than 0.001

\* According to the Air Pollution Prevention Law and instruction values set by Mishima City.

## Report on the status of management of chemical substances (response to PRTR Law)

for chemical substances handled in the plant, including raw materials, extra materials and auxiliary materials, the annual report on the status of management of chemical substances handled at a greater quantity than that provided for in the PRTR Law is made to the national government (prefecture) in June every year after confirming the existence of chemical substances designated as Class 1 by MSDS.

(Unit: tons/year)

Designated No.	Specified chemical substance	Amount to treat *1	Emission *2	Transfer *3	Safety Evaluation: V-2			
					Toxicity Rank (effect on people)	Annual Converted Emissions (effect on people)	Toxicity Rank (effect on ecosystem)	Annual Converted Emissions (effect on ecosystem)
20	2-aminoethanol	0.142	0.142	0.000	B	14.2	C	1.42
53	ethylbenzene	0.253	0.253	0.000	C	2.5	A	253
80	xylene	1.820	1.820	0.000	C	18.2	A	1,820
155	N-(cyclohexylthio)phthalimide	27.860	0.000	0.114	D	0	B	11.4
205	1,3-diphenylguanidine	33.340	0.000	0.136	A	0	C	0
230	N-(1,3-dimethylbutyl)-N'-phenyl-p-phenylenediamine	538.320	0.000	2.205	D	0	B	0
258	1,3,5,7-tetraazatricyclo[3.3.1.1 <sup>3,7</sup> ]decane; hexamethylenetetramine	20.214	0.000	0.083	---	0	---	0
300	toluene	1.085	1.085	0.170	C	10.85	D	1.085
333	hydrazine	0.114	0.114	0.000	A	114	B	11.4
372	N-(tert-butyl)-2-benzothiazolesulfenamide	98.725	0.000	0.404	B	0	A	0
407	poly(oxyethylene) alkyl ether (alkyl C=12-15)	0.190	0.000	0.001	A	0	B	0
438	methylnaphthalene	2.045	0.010	0.000	A	10	C	0.1
Total		724.108	3.424	3.113		169.780		2,098.405

\*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

## Noise, vibration and odor

**Noise:** Once a month, noises are measured at the border of the premises of the plant (11 points) and we confirm that they are within the standard targets (regulations at the Class 4 District and regulations at the district where the Class 4 District and Class 2 District are adjacent).

**Odor:** At four points at the border of the premises of the plant, odors are measured once a year by an odor index and we confirm they have cleared the standard targets.



## Safe and Healthy Workplace Environment

### Occupational safety and health

With recognition that securing safety and health of employees and cooperating employees are the foundations of corporate activities, the plant acquired OSHMS (Occupational Safety and Health Management System) certification in November 2011 as a means to realize a safe, healthy and comfortable workplace and by proper implementation and operation, we will promote safety and health activities to continue to improve them by sorting risks by risk assessment activities and countermeasures for and improvement of sorted risks to mitigate risks based on 3S activities in which all employees participate.

### Education and training for employees

As for safety education for employees, starting from safety and health education at the beginning of employment, we develop activities ensuring that rules shall be observed and approach with a sense of safety of individuals, mainly by person-to-person education for employees by managers and sensory training.

### Responses in case of disaster

At the time of regular evacuation drills, we establish headquarter so that comprehensive responses can be made through fire extinguishing drills and rescue drills on each disaster prevention organization. We could successfully and swiftly evacuate without any accidents for all members when the Great East Japan Earthquake and the succeeding earthquake with the epicenter directly originated underneath of Fujinomiya occurred. It is determined from FY2010 that registered functional fire-fighting team members are sent to on-sites and execute fire-fighting operations when disasters occur in Mishima City or the surrounding areas. There were two cases of the dispatch during FY2011. We concluded an arrangement with Mishima City that we let them a transportation vehicle for disaster (a folk lift) in January 2011.



## Safety and Quality of our Products and Services

### Communication with customers

We introduce acquisition of automotive industry quality management system standard ISO/TS16949 to customers who have visited the plant.

We also respond quickly to inquiries from customers to whom we have delivered products.



## Human Rights and Labor Practices

### Education on respect for human rights

We distribute a "Compliance Card" to all employees to carry out enlightenment and education activities.

As part of management capacity strengthening of the entire company,

we held seminars for managers (organization managers, group chiefs and foremen) to acquire correct knowledge regarding the prevention of harassment. In FY2011, 24 managers participated.



## Credibility with our Business Partners

### Relationship with business partners

The Mishima Plant held a CSR Guidelines explanation meeting at "Seiryukai," an association of cooperating companies. We try to keep

appropriate relationships with stakeholders by having them understand the corporate policy and procurement policy of the Company.



## Stakeholder Communication

### Major opinions and complaints we had received and our responses

In FY2011, sand dust blew from an unpaved part of a parking lot for employees due to strong winds and a neighbor notified us.

**Countermeasures:** A sand prevention net was installed in the parking lot for our employees in March 2011.

We participated in loaning out parking lots and participated in volunteer traffic control at water supply stations during the Izu Marathon, held on February 20, 2011.



### Relationship with local societies

A total of 52 persons participated twice a year in FY2011 in cleanup service work sponsored by the Mishima District Environmental Preservation Promotion Council.

Results of loaning out the plant's gymnasium totaled 573 cases in FY2011 and it is used by people throughout the region.

Cleanup activities around the Plant, which have continued, are carried out once a week. (Main gate of plant > around Mishima Futsukamachi Station and Main gate of plant > around the parking lots for employees)

Participation in blood drives are at the plant once a year and in FY2011, 37 people participated.

In June 2011, we donated 520 seedlings of evergreen broadleaf trees such as Japanese chinquapin, oak and Machilus thunbergii to the planting activities of the "Numazu Forest Building" promoted by Numazu City.

We donated tires for Mishima City ambulances

As support activities related to the Great East Japan Earthquake Disaster, we carried out fundraising activities from plant employees, participation in volunteer activities at Oshima Island off Kesennuma and fundraising for presenting Christmas cakes to children in the affected areas as a Christmas event.





### Factory tour and workshop

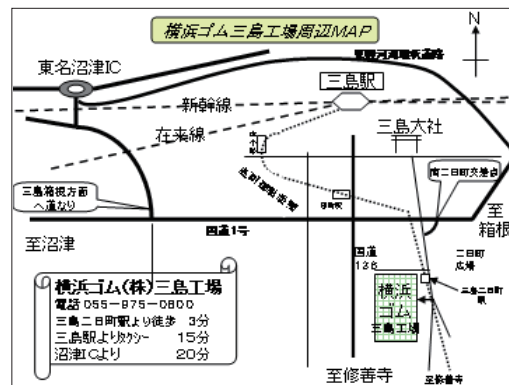
In FY2011, we accepted 45 factory tours with a total of 891 persons visiting the Mishima Plant. Out of which, we carry out activities as regional education support through the factory tours by elementary school students, workplace experience learning by junior high school students and high school student internships, etc.

#### Guidance to factory tour

**Holding Days:** Day when plant is in operation: from Monday to Friday  
(Except for year end and New Year holidays, consecutive holidays in May and August)

**Hours:** 8:00 a.m. to 4:00 p.m.

**Contact:** Mishima Plant, Administration Section  
TEL: +81-55-975-0800



### Corruption prevention

We distribute a “Compliance Card” to all employees to carry out enlightenment and education activities. For managers and staff, we provide seminars by e-learning.