# SUZUKI CSR REPORT 2011 Aiming for a beloved and trusted Suzuki throughout the world





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- •The period covered by this report is the fiscal 2010 (from April 1, 2010 through March 31, 2011). However, this report also contains descriptions on some activities taking place before or after that time period.
- This report covers information about not only Suzuki Motor Corporation, but also Suzuki Group companies. (Unless "related companies", "dealers", or "overseas" is indicated in each description, the information is related to Suzuki Motor Corporation.)
- This report was created in accordance with "Environmental Report Guidelines 2007" by the Ministry of Environment, "Sustainability Report Guidelines 2006" by GRI (Global Reporting Initiative), etc.
- Please note that the website addresses indicated in this report may be changed without notice.

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### Introduction

We extend our deepest sympathy and condolences to the families of the people who perished in the Great East Japan Earthquake and those who have suffered in the disaster and its aftermath. We pray for the earliest possible recovery from this unprecedented tragedy.

Since inauguration of business, we have been making our best efforts to develop customeroriented "valuable products." Believing that business development is a part of CSR (corporate social responsibility), we have continuously reevaluated every field and improved our management practices under our basic policy represented by a slogan - "In order to survive, let us stop acting in a self-styled manner and get back to basics."

Unfortunately, the automobile industry now faces an unprecedented crisis due to the worldwide financial crisis, with automobile sales sharply declining in many parts of the world market.

In order to come out of such a crisis, we need to unite our efforts to implement highly efficient, sound and lean management by making things "smaller, fewer, lighter, shorter, and neater" in production, organization, facilities, parts, environment and other various fields.

In addition, in R&D it has become more and more important to ensure environmental friendliness in the process of product development through "reduction of exhaust gas, improvement of fuel consumption, resource saving and recycling, etc." to protect global environment. With the limited amount of R&D resources, we will continue to undertake the task of developing new technologies that enable further reduction of fuel consumption and emission in compact vehicles, which are our hot-selling product.

At the same time, in order to accomplish our pray, we believe that every one of us should observe laws and regulations, social norms, in-house rules, etc. and behave fairly and faithfully, as well as it is indispensable to build and maintain reliable and good relationships with our stakeholders such as customers, business partners, shareholders/investors, local societies, and employees.

In this report, our CSR (Corporate Social Responsibility) activities carried out in fiscal 2010 are divided into two categories related to "environmental responsibility" and "social responsibility." We hope this report can provide an opportunity to understand our CSR activities.



Osamu Suzuki CEO & COO

## Supports to the Great East Japan Earthquake

Suzuki Motor Corporation contributed monetary donation of 30 million yen via Japanese Red Cross Society for supports to the affected areas on March 16.

In addition, we offerred the following additional supports on March 24.

#### Material donations

- 50 mini vehicles: Light truck (CARRY) etc.
- 100 motorcycles: 50cm<sup>3</sup> scooters (Let's 4) etc.
- Other material donations (drinking water, medical supplies, etc.)

\*We offered supports equivalent to 100 million yen in total of material donations and monetary donations.





#### Start of fundraising activities

In addition to the supports listed on the left, employees of Suzuki and our group companies conducted "disaster support fundraising activities."

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In addition, Mr. Yukifumi Murakami, the bronze medalist of the male javelin throw at the World Championships in Athletics - Berlin, Germany 2009 and Ms. Yuki Ebihara, a finalist of the female javelin throw at the World Championships in Athletics - Daegu, Korea 2011 both of whom belong to Suzuki Hamamatsu Athlete Club participated in the fundraising activities sponsored by the Japan Association of Athletics Federation.

What they can do as "athletes" who draw attentions from many people is to give sufferers "dreams" and "hopes" through sports. They will devote themselves to challenge new records, feeling gratitude for the fact that "they can play sports" more strongly than ever.



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Special Topics 01 To pass on to the next generation a clean environment and bountiful society

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# To pass on to the next generation a clean environment and bountiful society

Suzuki has established the Suzuki Global Environment Charter in 2002 (revised in 2006), and has been working on environmental problems, together with related companies throughout the world as the Suzuki Group,

by putting top priority on working on product development and business activities with regard to the environment.

### Suzuki Global Environment Charter (established in 2002, revised in 2006)

#### [Environmental Concept]

In order to pass on to the next generation a clean environment and bountiful society, we must all realize that the actions of each and every one of us have a great effect on our earth's future, so we must make every effort to preserve our environment.

#### **Basic Environmental Policies**

- Strictly observe environmental laws and also follow our own standards.
- Reduce the pressure placed on the environment resulting from our business activities and products.
- Maintain and improve upon our environmental management system.
- Promote environmental communication.

However, due to the disaster that struck Japan on March 11 and abnormal climate and energy problems and so forth, correspondence to the environment is becoming more important. For this reason, Suzuki has established its environmental symbol called Suzuki Green, and has decided to strengthen its work on environmental issues through our product development and business activities.



environmental symbol mark of Suzuki, Suzuki

Green expresses Suzuki's environmental technologies and vehicles equipped with those technologies.

As of September 2011, emblems with environmental symbols are attached on environmental technologies.



The Swift with the Engine Auto Stop Start System, which was launched in September 2011, has the following emblem with the environmental symbol attached as per below. Suzuki will continue to develop technologies that pay attention to the environment.



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# Toward the zero emission society

The coexistence of humans, the earth, and vehicles is no longer a future topic. As a creator of driving pleasure, Suzuki has long been working on reducing CO<sub>2</sub> by mainly offering mini and compact vehicles and motorcycles that have better fuel efficiency than bigger vehicles. Suzuki is currently heading toward the future zero emission society by working on development of next generation vehicles such as electric vehicles and fuel cell vehicles, as well as carrying out on-road trials toward commercialization of those vehicles by cooperating with local governments.

An electric vehicle that can be ridden without any anxiety of running out of battery

# Swift Range Extender

The Swift Range Extender is a compact vehicle based on an electric vehicle, which carries an engine-driven generator, and it gained its type approval in May 2010. For short distances (approximately 15km) such as shopping or commuting, it can run as an electric vehicle by using only its battery power. When the battery runs low, it can run by generating with the engine-driven generator, therefore it has no anxiety of stopping due to running out of battery. Also, because it carries an engine-driven generator, the battery capacity can be downsized, and it can be charged in a short time of 1.5 hours with a 100V outlet.



\*2 Measured in JC08 test cycle and verified by Ministry of Land, Infrastructure, Transport and Tourism. \*3 Range on electric power from external charge only.



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#### **Overview of the EV Every** (proto model for on-road trials)

Vehicle size: Overall length 3,395mm x overall width 1,475mm x overall height 1,875mm
 Motor: AC synchronous

- Standard motor output: 30kW
- Maximum motor torque: 180N·m
  - que: 180N·m Maximum loading weight: 250kg Range of single charge: 100km\*1
- \*1 Suzuki in-house research measured in JC08 test cycle. \*1 Range on electric power from external charge only.

#### Smart-working electric vehicle

# (proto model for on-road trials)

The EV Every (proto model for on-road trials) is an electric vehicle based on a sub-compact commercial vehicle Every. It has a maximum output equivalent of Every with gasoline turbo engine, and it can carry a maximum load of 250kg with two passengers (maximum capacity) on board. Also, it can run for approximately 100km by charging with AC200V outlet for approximately five hours (it can also be charged with AC100V).

Electric scooter with light driving and high environmental performance

Time required to charge battery: Approx.

Battery type: Lithium-ion

Battery capacity: 13kWh

5hrs@200V, Approx. 30min@quick charge

e-Let's



#### Overview of the e-Let's

- Vehicle size: Overall length 1,665mm x overall width
- 600mm x overall height 983mm Vehicle weight: 74kg (includes battery and generator)
- Passenger capacity: 1 person
- Motor: AC synchronous
- Standard output: less than 0.6kW
- Travel range: 30km (at 30km/h on level roads)
- Time required to charge battery: Approx. 4hrs@100V (measured in a normal temperature with the battery temperature low)
- Battery type: Lithium-ion

The e-Let's is an electric scooter based on a 50cm<sup>3</sup> scooter Let's4 Basket, and it is equipped with a lithium-ion battery and a high-spec in-wheel motor capable of performing regenerative charging. In addition to smooth acceleration and light driving characters of an electric scooter, it realizes low noise, low vibration, and high environmental, zero emission performance, while keeping its weight equivalent to the gasoline engine scooter of the same size. The battery pack is detachable, and it can be charged with a household 100V outlet. A single charge takes approximately four hours, and its range is approximately 30km (at 30km/h on level roads). Also, it can carry a spare battery, making it possible to double its actual driving range.



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#### Special Topics 02 Toward the zero emission society

### The world's first fuel cell vehicle to earn WVTA

# Burgman Fuel Cell Scooter

The Burgman Fuel Cell Scooter is a fuel cell scooter based on Burgman (European model), a scooter suitable for town riding, which carries a small, light, and simple air-cooled fuel cell. The hydrogen tank is safely placed within the frame, thus improving its utility. Also, by raising the pressure of the hydrogen tank, it realized a driving range of 350km\*1. In March 2011, it became the world's first fuel cell vehicle to earn WVTA\*2. Suzuki uses air-cooled fuel cells made by Intelligent Energy of UK.



Because fuel cell makes electricity from chemical reaction of hydrogen and oxygen, it does not emit any CO<sub>2</sub>. Also, since hydrogen can be extracted from many substances, fuel cell contributes to a society that does not depend on fossil fuel. Suzuki aims to make eco-friendly fuel-cell scooters increasingly common, in line with the establishment of hydrogen filling stations and other necessary infrastructure in Europe and Japan.

- \*1 Driving range is a result of test under a certain condition (at 30km/h on level roads). It varies depending on the environment and way of driving.
- \*2 In the European Union, a vehicle model without Whole Vehicle Type Approval must gain National Type Approval in each member state where it is to be sold. Whole Vehicle Type Approval enables the model to be sold in all member states.

# diagram of a fuel cell Hydrogen Hydrogen Electricity Kotor Hydrogen tank Lithium-ion battery Overview of the Burgman Fuel Cell Scooter

Vehicle size: Overall length 2,055mm x overall width 740mm x overall height 1,360mm Power unit: AC synchronous air-cooled polymer electrolyte fuel cell Type of fuel: Compressed hydrogen (70MPa)

Fuel cell

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# Promotion of on-road trials

with a view toward the future, by cooperating with the community

In order for the next generation vehicles to become common, there is a need for building social infrastructure along with the development of product itself. In addition to our own fleet test, Suzuki is also performing on-road trials with governments and communities throughout the world, while cooperating with them to build social infrastructure. Through those on-road trials, Suzuki is collecting driving data and service technology that suit the local transportation, and developing for massproduction.

#### Hamamatsu Social Experiment Project on Next-Generation Eco-Cars

Name of government, community	ty, etc.:
Hamamatsu (	City, Shizuoka Prefecture
Vehicle type: [EV automobile]	
Swift Range Extender	from October 2010
EV Every	from October 2011
[EV motorcycle]	
Electric scooter (e-Let's)	from November 2010



#### Businesses for proving the Kita-kyushu General Energy Station and creating the Kita-kyushu Smart Community

Name of government, community, etc.: Kita-kyushu City, Fukuoka Prefecture Vehicle type: [FC motorcycle] Burgman Fuel Cell Scooter-----from May 2011 [EV motorcycle] Electric scooter (e-Let's)------from May 2011

#### Comment from a female worker at the Hamamatsu City Hall

As a part of the Hamamatsu Social Experiment Project on Next-Generation Eco-Cars, the Hamamatsu City Hall has rented 9 units of Swift Range Extender to take part in the driving experiment. Its silence and comfortable acceleration are incomparably excellent than gasoline vehicles. I often use it for commuting within the city, but it makes me want to get on the highway to go for a drive.

dende



#### On-road trials at Loughborough University in UK

Name of government, community, etc.: UK Vehicle type: [FC motorcycle] Burgman Fuel Cell Scooter from February 2010

# On-road trials at Makinohara City

Name of government, community, etc.: Makinohara City, Shizuoka Prefecture Vehicle type: [EV automobile] Swift Range Extender from November 2010

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Special Topics 03 Passing on the spirit of monozukuri (manufacturing know-how) to the next generation

# Passing on the spirit of monozukuri (manufacturing know-how) to the next generation

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Suzuki Motor Corporation utilizes the Suzuki Plaza to introduce Suzuki's history and monozukuri (manufacturing know-how) and further interact with the local elementary schools and community.

### Passing on the spirit of monozukuri (manufacturing know-how) Suzuki Plaza

The Suzuki Plaza has set up a plan to visit the plaza before participating in the Plant Tour to visit the actual manufacturing site in 2010. The plan is utilized by many elementary schools for their field trips.

Every year, the plaza is scheduling many events for children to interact with the local community. During three days from August 18 through



20, 2011, the plaza has held its second annual "2011 Summer Vacation Experience Education" event, resulting in a total of more than 1,200 visitors.

During the event, there were many experiences such as "Engine Disassembly and Assembly Experience" using actual motorcycle engines, and "Coaster Handweaving Experience" using wooden looming machines. By participating in these experience education events related to Suzuki's history and monozukuri (manufacturing knowhow), the children enjoyed studying in a different style from their schools.

Also in addition, there were events such as "Drawing and Coloring Experience" for small children, and "Seatbelt Safety Experience", our first approach to collaborate with our business partner.



The Suzuki Plaza will continue to hold these kinds of events to interact with the local society.



\*Car Tug-Of-War Experience

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# Corporate Philosophy and CSR

# [ Corporate Social Responsibility ]



Our mission as a corporation is to fully consider the safety of our customers, take environmental conservation into consideration, observe all laws, regulations and social norms and maintain good relationships with our individual stakeholders as members of society. This section describes the basic policy on CSR of Suzuki.

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# **CSR Concept**

#### 01 Suzuki's basic concept of CSR

"The Mission Statement" established in 1962 which indicates the corporate concept of Suzuki and "The Suzuki Activity Charter" which clarifies the rules to be followed by Suzuki employees contain the basic philosophy of Suzuki's basic concept of CSR.



- 1. Develop products of superior value by focusing on the customer
- 2. Establish a refreshing and innovative company through teamwork
- 3. Strive for individual excellence through continuous improvement

### Suzuki Activity Charter

- 1. Develop and provide truly useful products and services by taking the opinions of our domestic and overseas customers and of society into consideration.
- 2. Take environmental conservation into full consideration when developing and providing products and services.
- 3. Observe all laws and rules when conducting corporate activities, without yielding to anti-social groups or organizations that are a menace to society.
- 4. Fully disclose accurate and fair information to the public and build a proper relationship with society.
- 5. Achieve long-term and stable growth through fair, clear, and free competition.
- 6. Make positive social contributions as a corporate citizen.



# **Stakeholders**

#### 01 Philosophy regarding individual stakeholders

This section describes our philosophy regarding individual stakeholders.



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**01 Strengthening Corporate Governance** 

# **CSR Management System**

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#### 01 Strengthening Corporate Governance

Through fair and efficient corporate activities, Suzuki always intends to be trusted by our customers, business partners, shareholders, investors, local communities and employees, and to be a continuously growing company, while making a further contribution to the international community.

In order to realize that intention, we consider that the enhancement of the corporate governance is one of the most important issues for proper corporate management and are aggressively taking various kinds of measures. Some of the ongoing activities are as follows.

#### **1** Directors and Board of Directors Meeting

For the purpose of enabling the agile corporate management and operations and clarifying the individual responsibilities, we have reduced the number of directors and introduced a Senior Managing Executive and Managing Executive Director system.

In that system, each director, except Chairman & CEO (and President & COO), also works as a leader for accomplishment of tasks such as Executive General Manager of each division or other functional units to allow for discussion based on site information at board meetings for making proper decisions in line with actual situations of each department.

In addition, at the management planning committee which is a council-system organization involving four executive vice presidents as members, important missions for management at each department are cross-functionally and comprehensively reviewed and basic concepts are adjusted and established. In order to embody the said basic concepts, we have the Management Planning Division.

In order to clarify managerial accountability for individual directors and flexibly respond to the changing business environment, the term of each director is set to one year.

#### **2**Corporate Auditors and Auditors Meeting

We employ the auditing system. There are five auditors, consisting of two internal and three external auditors, to enhance our auditing function.

One of the external auditors has been reported to Tokyo Stock Exchange according to its regulations as an independent executive officer.

Also, in addition to the internal auditing department, a department to audit associated companies has been established. Thus, audits are conducted concerning compliance with laws, internal control and management efficiency from three different angles including the accounting auditors. They always exchange information to strengthen their mutual collaboration.

#### **3**Compliance (Corporate Ethics) System

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Suzuki established "Suzuki Rules of Corporate Ethics", which specify "Standards of Behavior", in order to make all directors and employees at Suzuki strictly follow the laws, regulations, social norms, and in-company rules, as well as to act in good faith and fairness. In addition, we have established a "Corporate Ethics Committee" and hold corporate ethics seminars to check compliance with the Rules of Corporate Ethics. In addition, we determined a basic policy for the establishment of an internal control system on May 15, 2006 in accordance with Companies Act. And we are now making necessary arrangements for the system.

#### "Suzuki Rules of Corporate Ethics" Standards of Behavior

 Suzuki's directors and employees, etc. shall recognize social responsibility of the Company and soundly manage their business in good faith.

- Suzuki's directors and employees, etc. shall comply with related regulations, guidelines and fair rules in performing their duties.
- Suzuki's directors and employees, etc. shall, in every aspect, respect human rights, and shall not make any discrimination by race, creed, sex and social status.
- Suzuki's directors and employees, etc. shall make a clear distinction between business and private matters, and shall not use the Company's property or business position for private interests.
- Suzuki's directors and employees, etc. shall strictly protect confidentiality of the Company's information, unless it has been officially disclosed outside the Company. Also, they shall take meticulous care for handling personal information.
- Suzuki's directors and employees, etc. shall take a firm position against antisocial groups, organizations, etc. and shall not have any relation with them.
- Suzuki's directors and employees, etc. shall be conscious of being a member of the company, and shall not interfere, even outside working hours, with the company operation by any conduct against regulations and social norms.
- Suzuki's directors and employees, etc. shall act cautiously, recognizing that crises to the company or the local community such as fraud, illegal activity or natural disaster could arise at any time, and should crisis occur, they shall act swiftly in accordance with rules prescribed in Rules, Procedures and manuals and try to block the spread of damage.



#### **Corporate Ethics System Organization**



#### **Employee Consultation Service**

As a system established under the Suzuki Rules of Corporate Ethics, we provide the "Employee Consultation Service" throughout the company. This service allows our employees to address illegal, unjust and unreasonable act in Suzuki and aims to achieve sustainable company development through the creation of a more comfortable workplace for our employees and establish ourselves as a trustworthy company. Issues that are handled by this service include not only facts or suspected facts of law violation, but also matters on questions and worries regarding various affairs at work, and business improvement.

Moreover, in order to ensure fairness, this system allows employees to directly consult with outside lawyers other than the inhouse consultation service section by telephone or e-mails.

#### 02 Crisis Management System

Crisis management procedures are laid down within the "Suzuki Rules of Corporate Ethics" as a countermeasure to the crisis that may occur from illegalities and injustices inside/outside the company, or natural disasters or terrorism, which are impossible for the company to prevent.

When the Corporate Ethics Committee finds crises that may cause urgent and serious damages to the corporate

management and business operations, the committee immediately sets up a "Crisis Management Task Force" in line with the "Crisis Management Procedures" in order to deal with the crisis. This organization swiftly decides on the policies and measures to be taken against the crisis occurred and gives instructions to the appropriate departments and divisions which are then able to communicate with each other to resolve the problem.



#### **Crisis Management Procedures Chart**

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#### 03 **Protecting Personal Information**

We fully recognize that personal information (information regarding our customers, business partners, shareholders, investors, employees, etc.) is a valued asset that we receive from individuals, and it is our obligation under the law and our accountability to society, to handle this information properly and with care. In response to this, we established the "Suzuki Personal Information Protection Code" in April 2005, which sets the basic rules governing the proper handling of personal information.

To familiarize our employees with this code, the "Manual for Handling Personal Information" (a handling book is included) was established for use in employee seminars and individual divisions. In addition we provide points to keep in mind when handling personal information through our in-house homepage, and the management office provides a reference service to respond to more detailed questions from individual sections. All employees come to fully understand the proper way to handle personal information through these activities.

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Our sales distributors receive guidance along with the rules, manuals, and the "Manual for Handling Personal Information" for all employees, and are provided with reference services, etc., through the related sections in regard to detailed questions from individual companies. We also offer occasional employee seminars, etc. at each distributor, to familiarize everyone in regard to the protection of personal information. In the future, the Suzuki Group will continue to reexamine and improve the personal information protection system.

#### **Board of Directors Meeting Corporate Ethics Committee** Inspectors Meeting Personal Infor-Personal Infor-Personal Infor-Organizer mation Manager mation Manager mation Manager Line Manager Line Manager Line Manager Personal Information Inspector Individual Employee Individual Employee Individual Employee

#### **Personal Information Protection System**

For the details on the handling of personal information, refer to the following website (http://www.suzuki.co.jp/privacy\_statement/index.html)

# **Environmental Responsibility**

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[ Promotion of Global Environmental Efforts ]



Since the establishment of "Suzuki Global Environment Charter" in March 2002, Suzuki has been promoting efforts for environmental conservation, aiming to realize a society with sustainable development, as well as to ensure the company's existence.

This section introduces our environmentally related activities.

«	Promotion of Suzuki Environmental Management »
«	Control of Global Warming »
«	Promotion of the Three Rs (Reduce, Reuse, and Recycle) $\gg$
«	Promotion of Environmental Conservation etc. $\gg$



# Promotion of Suzuki Environmental Management

Suzuki and its domestic and overseas group companies promote environmental management. In order to pass on to the next generation a clean environment and beautiful society, Suzuki agressively promotes reduction of environmental impact generated by our business activities and products, acknowledging that consideration to environmental issues such as global warming should be regarded as one of the most important challenges for our business activities. Therefore, we establish the environmental management system of not only individual offices but also domestic and overseas group companies, and are promoting environmental conservation activities together with the whole Suzuki Group.

### Environmental Organization

In April 2001, Suzuki established the Suzuki Environmental Committee as the top decision-making body in the environmental management system for the entire Group.

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Meetings by Suzuki Environment Committee are held twice a year to determine our environmental policy and medium and long-term environmental goals, check the progress in the existing issues, and discuss urgent problems.



**Environmental Organizational Chart of the Suzuki Group** 

# Suzuki Environmental Protective Activities Plan

We have the "Suzuki Environmental Protective Activities Plan" (first established in 1993 and revised in 2007) as a medium and long-term goal for environmental activities. Each division and group companies perform PDCA\* based

on this plan to globally promote environmental activities. In addition, working groups are separately established for cross-functional issues that should be shared by different divisions such as those related to Revised Energy Saving Law and recycling.

Currently, the next medium and long-term goal is being prepared.

\* PDCA: Approach for activities that regards Plan, Do, Check, and Action as one cycle. Because this approach is not only to plan and implement but also to evaluate and review the action, activities can be conducted with constant improvement by feeding back effects or lessons learned.



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03 Annual Environmental Goals and Results

## 03 Annual Environmental Goals and Results

			Fiscal 2010		
			Goal	Actual result	
Environment Management	Intro Man	oduction of Environmental agement System	Promote the Suzuki Environmental Management. Promoted targets defined in the En Protective Activities Plan.		
		[Automobile] Improvement of Fuel Efficiency	Achieve the 2010 fuel efficiency standard with credits.	Achieved the 2010 fuel efficiency standard in four ranks except for the rank of IW = 1500 kg, and also achieved the fuel efficiency standard with credits for Suzuki as a whole.	
	opment	[Motorcycle] Improvement of Fuel Efficiency	Further improve fuel efficiency by reducing friction and optimizing fuel and ignition timing control	Increased the fuel efficiency by approximately 10% with GSX-R600, GSX-R750, and GSR750, compared to the base model.	
Narming	Deve	[Outboard Motor] Improvement of Fuel Efficiency	Further improve the fuel efficiency by 10% through adoption of a new engine design, compared to conventional models.	Increased the fuel efficiency by 12%, 30%, and 20% from conventional models by developing the new DF300, DF50, and DF40 respectively.	
f Global V		[Automobile/motorcycle] Development of Next- Generation vehicles	Promote development of next-generation vehicles.	Developed and started on-road trials of the SWIFT Range Extender, the e-Let's electric scooter, and the BURGMAN fuel cell scooter.	
Reduction of	Production	CO2 Emission	Further promote reduction of CO2 emission from plants.	Because of increase in production, the CO2 emission from domestic manufacturing plants and manufacturing group companies was increased by 7.6% (23,000 tons) from the previous year. The CO2 emission per sales was cut by 1.7% (0.4 tons/100 million yen) from the previous year.	
	ОПСе	Reduction of CO2 Emission	Further promote improvement of energy saving activities.	Reduced the amount of CO <sub>2</sub> emission per employee by 3.7% in average from the previous year for three consecutive years from fiscal 2008 to 2010.	
		Introduction of Low- Emission Vehicles for In- House Use	Increase the low-emission vehicle utilization ratio to 85%.	Achieved 82% of low-emission vehicle utilization ratio.	
	Production	Landfill Waste	Maintain the zero-level (less than 1% compared to fiscal 1990) landfill waste.	Achieved the zero-level target of landfill waste.	
	ibution	Reduction of Packaging	Reduce the amount of packaging materials to be used.	Reduced the amount of cardboard by approx. 233 tons with the increased use of returnable containers.	
	Distr	materials	Promote recycling	Recycled approx. 31 tons of used cardboard into buffer materials.	
on of 3R		Promotion of Collection and Recycle of Used Bumpers	Further increase the amount of collected bumper materials.	Increased the amount of collected bumper materials by 18% from the previous year.	
Promoti	rket	Compliance with Japanese Automobile Recycling law	Promote efforts to achieve the 2015 ASR recycling rate target of 70% or more and reduce cost.	Achieved the ASR recycling rate of 82.2 % (continuously achieving the 2015 legal target of 70% since fiscal 2008).	
	Ма	Compliance with Overseas End-of-Life Vehicle Recycling Regulations	Further promote compliance with overseas end-of- life vehicle recycling regulations.	Renewed the certificate of the compliance with EU 3R directive.	
		Promotion of Voluntary Motorcycle Recycling Efforts	Further promote the voluntary recycling efforts.	In fiscal 2010, 301 units of Suzuki's motorcycles were recycled (-31.7% compared to the previous year).	
	Office	Promotion of Paper 3R	Promote 3R in the office.	Reduced the amount of paper used by 3.2% from the previous year. Recycled 869 tons of paper materials.	
nmental tc.	t	[Automobile] Exhaust Gas Regulation	Increase the number of low-emission certified vehicles.	Increased the number of 4-star certified vehicles under the newly extended standard to 71.5% of the whole.	
ion of Enviro Inservation e	Developmen	[Automobile] Reduction of VOC (Volatile Organic Compounds) in Car Interior	Meet the JAMA's voluntary target of interior VOC value for all new domestic models.	Achieved the target for all new domestic models (new MR Wagon, new Solio, and new SWIFT).	
Promot		[Motorcycle] Exhaust Gas Regulation	Expand the range of target vehicles for emission control in Asian countries (Thailand, China, and India).	Expanded development of vehicles conforming to local regulations, for example, FL125FS in Thailand, EN150 in China, GT125 in India, etc.	



			Fiscal 2010		
			Goal	Actual result	
tion etc.		[Outboard Motor] Exhaust Gas Regulation	Promote compliance with each country's emission control regulations (with special efforts accordingly for EPA secondary control, which final conformance deadline is 2013).	Conformed to EPA2 (emission and EVAP).	
f Environmental Conservat	evelopment	[Common] Promotion of Control and Usage Reduction of Environmental Impact substances	Continuously promote global efforts to disuse environmental impact substances (excluding some exempted parts).	Promoted global reduction of environmental impact substances and almost apporoximately abolished four kinds of heavy-metal environmental impact substances in 2011 new models in India.	
	a	[Common] Compliance with European Chemicals Legislation REACH/CLP	Further promote reduction of SVHC.	As the report on 53 Substances of Very High Concern will become mandatory by June 1 2011, investigated all content percentages of 0.1 wt% or higher and quantities of 1 t/year or more for global action.	
otion o	tion	Reduction of VOC Emission	Further promote efforts to achieve the 2010 target (emission of 52.8 g/m <sup>2</sup> ).	Reduced VOC emission to 47 g/m² (by cutting 4.1 g/ $m^2$ from the previous year).	
Promo	Produc	Reduction of PRTR Target Substances	Promote reduction of PRTR target substances.	Reduced by 70% from fiscal 1999.	

			Target of fiscal 2011		
Environment Management	Introduction of	f Environmental Management System	Promote the Suzuki Environmental Management.		
		[Automobile] Improvement of Fuel Efficiency	Promote improvement of fuel efficiency, considering the 2015 fuel efficiency targets.		
	Dovelopment	[Motorcycle] Improvement of Fuel Efficiency	Promote to develop techniques for improving fuel efficiency to other models.		
Reduction of Global Warming	Development	[Outboard Motor] Improvement of Fuel Efficiency	Further improve the fuel efficiency by 10% from conventional models through adoption of a new engine design.		
wanning		[Automobile/motorcycle] Development of Next-Generation Vehicles	Promote development of next-generation vehicles.		
	Production	CO2 Emission	Further promote reduction of CO2 emission from plants.		
	Office	Reduction of CO <sub>2</sub> Emission	Further promote energy saving and improvement activities.		
	Production	Landfill Waste	Maintain the zero-level landfill waste.		
	Distribution	Deduction of Decks due Materials	Reduce the amount of packaging materials to be used.		
	Distribution	Reduction of Packaging Materials	Promote recycling		
	Market	Promotion of Collection and Recycle of Used Bumpers	Further increase the amount of collected bumper materials.		
Promotion of 3R		Compliance with Japanese Automobile Recycling law	Promote efforts to achieve the 2015 target (ASR recycling rate of 70% or higher) and cost reduction.		
		Compliance with Overseas End-of-Life Vehicle Recycling Regulations	Further promote compliance with overseas end-of-life vehicle recycling regulations.		
		Promotion of Voluntary Motorcycle Recycling Efforts	Further promote the voluntary recycling effots (actions to start free-of-charge collection upon disposal).		
	Office	Promotion of Paper 3R	Promotion of paper 3R		
		[Automobile] Exhaust Gas Regulation	Increase the number of low-emission certified vehicles. Switch to JC08 mode.		
		[Automobile] Reduction of VOC (Volatile Organic Compounds) in Car Interior	Meet the JAMA's voluntary target of interior VOC value for all new domestic models.		
		[Motorcycle] Exhaust Gas Regulation	Increase models conforming to local regulations.		
Promotion of Environmental	Development	[Outboard Motor] Exhaust Gas Regulation	Promote compliance with each country's emission control regulations (with special efforts accordingly for of the EPA secondary control the final conformance deadline in 2013).		
etc.		[Common] Promotion of Control and Usage Reduction of Environmental Impact substances	Continuously promote global efforts to disuse environmental impact substances (excluding some exempted parts).		
		[Common] Compliance with European Chemicals Legislation REACH	Promote global compliance to REACH/CLP.		
	Production	Reduction of VOC Emission	Further promote efforts to achieve the 2011 target (emission of 46.7 g/m <sup>2</sup> ).		
		Reduction of PRTR Target Substances	Promote reduction of PRTR target substances.		



# 04 Introduction of Environmental Management System

#### Efforts by Manufacturing Department

#### **①Introduction of Environmental Management System**

As one of environmental conservation activities, Suzuki is promoting introduction of Environmental Management Systems including ISO14001.

The ISO14001 is an international standard of environmental management system. By obtaining the ISO14001 certificate, Suzuki intends to follow the relevant regulations and reduce the environmental impact substances. Also, through periodical environmental audits, we verify the effectiveness of our environmental management system.

#### Domestic Companies

All domestic plants (six plants) already acquired the ISO14001 certificate before March 2003. For manufacturing companies, seven out of nine companies obtained the certificate as of the end of March 2011.

#### Domestic plants and group companies that acquired ISO 14001





#### <Suzuki>

[Domestic Six Plants]

	Plant's name	ISO acquisition month
1	Kosai Plant	Jul-1998
2	Osuka Plant	Sep-1999
3	Sagara Plant	Sep-1999
4	Toyokawa Plant	Dec-2000
5	Takatsuka Plant	Mar-2003
6	Iwata Plant	Mar-2003

# <Domestic Group Companies> [Manufacturing Companies]

	Company's name	ISO acquisition month
7	Suzuki Toyama Auto Parts Mfg. Co., Ltd.	Mar-2001
8	Suzuki Hamamatsu Auto Parts Mfg. Co.,Ltd.	Jun-2001
9	Suzuki Seimitsu Industries Co., Ltd.	Oct-2001
10	Suzuki Akita Auto Parts Mfg. Co., Ltd.	Mar-2002
11	Snic Co., Ltd.	Mar-2005
12	Hamamatsu Pipe Co., Ltd.	May-2005
13	Enshu Seiko Co., Ltd.	Jul-2005



#### Overseas Companies

For overseas manufacturing bases, MAGYAR SUZUKI Corporation Ltd. obtained the certificate in April 1998 for the first time in our group. As of the end of March 2011, 15 overseas manufacturing companies obtained the ISO14001 certificate. Other group companies are also making best efforts to acquire the certificate.



	Company's name	ISO acquisition month
1	MAGYAR SUZUKI Corporation (Hungary)	Apr-1998
2	MARUTI SUZUKI INDIA LIMITED (India)	Dec-1999
3	SUZUKI MOTOR ESPANA, S.A. (Spain)	Feb-2000
4	SUZUKI MOTOR DE COLOMBIA S.A. (Colombia)	Dec-2003
5	PAK SUZUKI MOTOR Co., Ltd.(Pakistan)	Aug-2005
6	THAI SUZUKI MOTOR Co., Ltd.(Thailand)	Aug-2005
7	PT.SIM Cakung Plant (Indonesia)	Apr-2006
8	PT.SIM Tambun I Plant (Indonesia)	Aug-2008
9	PT.SIM Tambun II Plant (Indonesia)	Jul-2009

#### **2**Environment Conference

To improve the environmental management of our plants, a plant engineering managers meeting is held once a month. At the meeting, engineering managers of all plants of Suzuki get together to discuss improvements for environmental planning and matters related to all plants, while seeing actual systems. Decisions made at the meetings are rolled out to each plant, contributing to promotion of in-house environmental activities. In addition, a manufacturing group companies environmental meeting is also held once every two months to enhance the coalition among the Suzuki group companies for environmental activities.

	Company's name	ISO acquisition month
10	JIANGXI CHANGHE SUZUKI AUTOMOBILE Co., Ltd. Jingdezhen Plant (China)	Dec-2003
11	JINAN QINGQI SUZUKI MOTORCYCLE Co., Ltd.(China)	Aug-2004
12	CHONGQING CHANGAN SUZUKI AUTOMOBILE Co., Ltd.(China)	Nov-2004
13	VIETNAM SUZUKI Corp.(Vietnam)	Mar-2005
14	SUZUKI ASSENBLERS MALAYSIA SDN. BHD.(Malaysia)	Oct-2006
15	JIUJIANG ENGINE MANUFACTURING COMPANY Jiujiang Plant (China)	Dec-2006





#### **③Environmental Audit**

At Suzuki, external audit is conducted once every year by an external auditing agent. In addition, an internal audit is conducted to double-check our environmental management system.





#### External Auditing

We contract independent inspectors to examine documents and carry out on-site inspections in regard to the validity and adequacy of our environmental management system, and determine whether or not measures are being properly carried out.

In fiscal 2010, renewal audit at one plant and surveillance at five plants were conducted, resulting in 1 item of nonconformity<sup>\*1</sup> to ISO14001 requirements at the six plants. We immediately investigated the causes and took corrective actions and preventive measures. Also, there were 26 items to be monitored<sup>\*2</sup> in total, on which we will make continuous improvement.

- \*1 "Nonconformity" indicates a defect that needs immediate correction but is not critical to the system operation.
- \*2 "Items to be monitored" indicate matters that need not be immediately corrected, but continuous improvement is preferable.

#### Efforts by Non-Manufacturing Department

Based on the "Suzuki Environmental Protective Activities Plan", which is intended to roll our environmental policy out to all group companies, we are enhancing environmental management and promoting environmental conservation activities throughout the entire group.

Suzuki Group's domestic 54 sales agencies are promoting activities such as reduction of the energy consumption and the amount of discharged waste, as well as

#### In-house Audit

For internal audits, two kinds of audits are conducted: one is an overall audit, and the other is a local audit. We select auditors that have no direct association with the section being inspected, and they examine whether environmental management system is being properly carried out or not.

#### How in-house audits lead to improvement



#### **Overall Audit**

Document inspection and on-site checks are performed to determine whether environmental management system is being properly carried out or not.

In fiscal 2010, 9 items were pointed out, and 69 items were advised, all of which have been improved.

#### Local Audit

#### Preventive Audit

Thorough on-site observations and inspections are carried out in areas that possess a potential for accidents such as drainage disposal facilities, chemical use/storage, and waste disposal facilities.

In fiscal 2010, 5 items were pointed out, and 15 items were advised, all of which have been improved.

#### •Environmental Patrol

Areas that possess a potential for accidents undergo regular inspection by the plant manager to prevent environmental accidents.

conformance to recycling laws. For overseas companies, we conducted environmental data investigation on 20 group companies including sales agencies, and examine how to develop actions and/or control to be implemented. Suzuki Transportation & Packing Co., one of our group companies, acquired the ISO14001 in January 2005 and now conducts the environmental management activities.





#### Education according to Managerial Hierarchy

As part of our employee education program, we provide new employees with awareness-raising workshops concerning such basic environmental subjects as Suzuki's environmental philosophy, policy, issues, and ecodrive concept. Also, we provide other employees with environmental training according to their job functions. In addition, internal auditor training is provided to management level employees. In fiscal 2010, environmental education was provided to 17,000 persons throughout the entire Suzuki Group. In individual plants, special educational programs to prevent environmental accidents were carried out especially for employees working in environmentallyimportant processes. Also various educational programs were provided to new employees, management level employees, and all factory employees.

#### Topics

#### Efforts at Overseas Plant (MAGYAR SUZUKI)

Persons in charge of environment at each shop (manufacturing process) including the Engineering Section are called to have a regular meeting once a month. Topics for discussion are:

- •Check thorough observance of environmental rules inside and outside the plant (thoroughly notify employees of the rule for sorting and collecting general wastes, industrial wastes, and hazardous substances from the plant)
- ②Education for personnel who handle volatile organic solvents (amount to be handled, actions when solvents flow out, etc.)
- **3**Implementation for countermeasures for problems pointed out upon ISO14001 audit

The information used to be transferred from a person in charge of safety in the Engineering Department to persons in charge of environment of each shop. However, we changed this system, and now hold the meeting with employees in the group/section leader class of each shop in order to raise environmental awareness of the entire plant.

#### 06 Emergency Training

We look for locations and operations that have the potential of causing an environmental accident or emergency and hold emergency drills with employees and other related suppliers. In fiscal 2010, 131 times of emergency drills (including 18 times of night drills) were conducted at domestic plants.

These drills were held at our overseas plants.



We conducted the soil survey for the land in Toyokawa Plant site to be sold to Toyokawa City, and maximum 1.2 mg/L of fluorine (the standard value is 0.8 mg/L) was found at 3 out of 118 investigation points. We investigated the cause and assumed that natural fluorine existing in soil

since before Suzuki purchased this plant site was detected because fluorine had never been used in this site. We reported this fact to Aichi Prefecture, had the soil cleaned by digging and removal, and reported the completion of the countermeasure to Aichi Prefecture.

#### Education to Obtain Special Qualifications

We encourage employees to obtain special qualifications relating to the environment management. In fiscal 2010, 142 employees were newly qualified as pollution prevention managers, 38 as energy managers, and 486 as internal environment system auditors.

#### Education for Overseas Trainees

In fiscal 2010, we accepted 136 trainees (mainly plant managers, production engineers, or designers) from overseas plants, and provided them with our environmental education on environmental policy, segregation of wastes, energy-saving countermeasures, etc. to promote the environmental activities on a global scale.

Topics

Environmental Responsibility Social Responsibility

Data

**08 Environmental Accounting** 

# 08 Environmental Accounting

#### **Cost of Environmental Conservation**

(Unit : 100 million yen)

	Contents			Change			Fiscal March 2011		
Classification			Fiscal 2008 (Mar.)	Fiscal 2009 (Mar.)	Fiscal 2010 (Mar.)	Invest- ment	Expenses	Total	
	Pollution Prevention	For preventing air pollution, water contamination, etc.	4.4	10.0	4.5	0.4	5.3	5.7	
Business Area	Environmental Conservation	For preventing global warming, ozone layer depletion, etc.	3.4	5.3	4.6	0.1	2.3	2.4	
Costs	Recycling of Resources	For effective use of resources, recycling or proper disposal of waste materials, etc.	9.9	14.5	7.8	0.4	5.2	5.6	
		Total	17.7	29.8	16.9	0.9	12.8	13.7	
Upstream/ Downstream Costs	For collecting, recycling or proper disposal of rejected parts (bumpers, etc), containers, and packaging materials, etc.		0.3	0.3	0.1	-	0.1	0.1	
Managerial Costs	For conductin and operating monitoring an	g employee training, establishing environmental management system, d measuring environmental impact, etc.	4.3	4.2	3.2	-	3.5	3.5	
Research and Development Costs	For promoting research and development activities to reduce environmental impact, etc.		382.0	468.0	407.8	4.6	352.9	357.5	
Social Activities Costs	For promoting campaign, rel publication or	g nature protection, tree-planting ationship with local community, f environmental information, etc.	2.7	2.6	2.0	-	2.0	2.0	
Environmental Damage Costs	For recoverin	g soil, nature, etc.	0.1	0.1	0.2	-	0.1	0.1	
Total			407.1	505.0	430.2	5.5	371.4	376.9	

#### **Effectiveness of Environmental Conservation**

(Unit : 100 million yen)

			(=	, e	
	Items	Fiscal 2008 (Mar.)	Fiscal 2009 (Mar.)	Fiscal 2010 (Mar.)	Fiscal 2011 (Mar.)
	Energy Cost Reduction	1.1	1.3	1.8	2.9
	Waste Management Cost Reduction	0.04	0.2	0.2	0.1
Economical Effect	Resource Saving (including recycle and valuable resource disposal)	72.9	63.8	32.1	39.7
	Total	74.0	65.3	34.1	42.7

(Note) These are in-house environmental figures.





#### Efforts for Biodiversity by Suzuki ①Policy

The year 2010 was a year biodiversity was focused on, such as with the declaration of International Year of Biodiversity by the United Nations and the holding of COP10 in Nagoya. In order to pass on to the next generation a clean environment, Suzuki also acknowledges the importance of biodiversity such as by putting efforts into forest conservation activities and cleanup activities, in addition to the measures for global warming, resources recycling, and reduction of environmental impact substances that have been performed during conventional business activities or product development.

#### Major Efforts for Biodiversity by Suzuki

Classification	Item	Specific example of implementation
ind Product nt	Measures for Global Warming	<ul> <li>Promote improvement in fuel efficiency.</li> <li>Develop next-generation vehicles.</li> <li>Reduce CO<sub>2</sub> generated by manufacturing, distribution, and office works.</li> </ul>
ities a opme	Recycling of Resources	<ul> <li>Promote 3R.</li> <li>Reduce wastes.</li> </ul>
iess Activ Devel	Reduction of Environmental Impact Substances	•Reduce environmental impact substances. •Reduce VOC.
Busin	Prevention of Environmental Pollution	•Reduce exhaust gas. •Prevent air/water pollution.
on with ty	Forest Conservation Activities	•Suzuki's Forest •Shimokawa Proving Grounds: FSC certification program
eratic Socie	Cleanup Activities	•Cleanup activities around the plant
Coop	Environmental Education	•Promote eco-driving. •Promote environmental education.

#### **2**Forest Conservation Activities

#### Suzuki's Forest (Hamamatsu City)

Suzuki concluded a "Volunteer Forest" agreement with Tenryu Forest Administration Department of Forestry Agency and started the forestry preservation activities in 2006 at "Suzuki Forest" located in Inasa-cho, Kitak-ku, Hamamatsu city.

Since fiscal 2008, our employees and their families have participated in events such as a tree planting and underbrush cutting. Also, children enjoy experiencing inoculation of Shiitake mushroom in spring, and picking them in autumn.





#### Suzuki Shimokawa Proving Grounds

Suzuki Proving Grounds is located in Shimokawa Town, Kamikawa County on the north of Hokkaido, with the forest accounting for about 90% of the total land area.

Key industries of Shimokawa Town are the forest and agricultural industries. Therefore, they aggressively promote proper forest management in order to maintain such valuable natural assets to the future. Shimokawa Town acquired the international FSC Forest Group Certificate for the first time in Hokkaido in 2003.

The 287-ha forest in the Suzuki Shimokawa Proving Grounds was also recognized to conform to the strict standard of the FSC certification program, so it has been registered in the FSC Forest Group Certificate for Shimokawa Town since 2006. Residents in Shimokawa Town hold a regional community meeting with Suzuki's employees in February every year since 1993.

Also, under an agreement (1996 through 2028) with the Shimokawa town local authority based on "Corporate Forest Preservation Program", we also control and maintain 4.3ha of forestland (containing 3,200 trees) in cooperation with the district forest office.

Suzuki will continue to perform business activities, considering coexistence with natural environment and local communities.

In July 2008, Shimokawa Town was certified, together with Yokohama City and Toyama City, as an "Environmental Model City" that is aggressively promoting CO2 reduction. To hand over the sustainable community to the next generation, we made "Shimokawa Environmental Model City Declaration" and are promoting development of environmentally friendly regions by supporting or encouraging the recycle-based forest management, biomass town concept, and construction of environmental type model houses using local materials.



Shimokawa Proving Grounds (Hokkaido)

#### **Communication with Local Communities**

#### **①Community Information Exchange Meeting**

We regularly carry out information exchange meetings with local residents to ask their views and opinions for further environmental improvement. In fiscal 2010, such meetings and events took place 5 times at five plants. Also, 384 plant tours were conducted at six plants.

#### **2**Plant-and-community information exchange meeting

Suzuki participated in the following environment-related fairs in fiscal 2010.



Plant-and-community information exchange meeting

Name of Fair	Date	Location	Organizer and Cosponsor
Kobe Eco-Car Fair	May 15 and 16, 2010	Kobe Meriken Park	Kobe City Government, Environmental Restoration and Conservation Agency
Automotive Engineering Exposition	May 19 - 21, 2010	Pacifico Yokohama	Society of Automotive Engineers of Japan
Eco-Car World 2010	June 5 and 6, 2010	Yokohama Red Brick Warehouse	Ministry of the Environment, Yokohama City Government
APEC Energy Ministers' Meeting, Next- generation Automobile Test Ride	June 19 and 20, 2010	Tsuruga City, Fukui Prefecture	Ministry of Economy, Trade and Industry
Business Matching Fair in Hamamatsu - Hamamatsu Environmental Engineering Exhibition	July 21 and 22, 2010	Hamamatsu City Synthesis and Industry Exhibition Pavilion	Hamamatsu Chamber of Commerce and Industry, Shizuoka Prefectural Government
Social Experiment Start Ceremony in Hamamatsu	October 7, 2010	Shizuoka University of Art and Culture	Hamamatsu City Government
Tokyo Eco Driving Contest (Exhibited Wagon R with Idling Stop Function)	October 24, 2010	NO Section in Aomi, Odaiba	Tokyo Metropolitan Government, Ministry of Economy, Trade and Industry
Hamakita Industrial Festival	October 30 and 31, 2010	Hamakita Sports Center "Green Arena"	Hamamatsu City Government
The 8th Shizuoka Environment & Forest Fair	October 30 and 31, 2010	Twin Messe Shizuoka	Shizuoka Prefectural Government, etc.
Next-generation Environmental Vehicle Engineering Seminar in Hamamatsu	November 18, 2010	Hamamatsu Technical Support Center	Organization For Hamamatsu Technopolice
MONOZUKURI Fair 2010 in Higashi Mikawa	November 26 and 27, 2010	Toyohashi City General Gymnasium	Toyohashi Chamber of Commerce and Industry
SHIZUOKA STOP ONDANKA FESTA 2010 WINTER	December 18, 2010	Shizuoka City Aoba Symbol Road	Shizuoka City Government

Introduction

Special Topics

**01 Efforts for Development** 

Data

# **Control of Global Warming**

Environmenta

Responsibility

Social

Responsibility

Corporate

Philosophy and CSR

Promote CO<sub>2</sub> emission in all areas of products, manufacturing, distribution, etc. under the policy of making parts "Smaller, Fewer, Lighter, Shorter, and Neater"

Suzuki believes that reducing CO<sub>2</sub> emission, which are connected to global warming, is important to pass on to the next generation a clean environment. Under the policy of making parts "Smaller, Fewer, Lighter, Shorter, and Neater" which is the base of wide varieties of manufacturing, Suzuki mainly provides compact cars that reduce CO<sub>2</sub> emission. In addition, the Chairman visits each plant once a year to promote energy-saving through entire business activities and efficient manufacturing and distribution by the light and compact manufacturing line, and also to accelerate reduction of CO<sub>2</sub> emission.

### 01 Efforts for Development

#### **Automobiles**

In order to reduce CO<sub>2</sub> emissions, which are connected to global warming, we are constantly working to develop and improve products that offer superior fuel economy.

#### Improvement of Fuel Efficiency

#### **①Trends in Average Fuel Efficiency by Weight Class**

In fiscal 2010, passenger cars in four out of five weight categories achieved the 2010 target level of fuel efficiency. (The fuel efficiency standard was achieved using credits as the whole Suzuki Group.) The fuel efficiency could be improved particularly in the light weight class (875 kg and 1000 kg).

Lighter vehicles tend to allow for better fuel efficiency. Suzuki contributes to improvement of fuel economy for the entire motorized society by providing lightweight automobiles (mini vehicles, compact vehicles, etc) to as many customers as possible.



#### Average Fuel Efficiency of Gasoline Vehicles by Weight Class (Figures after fiscal 2004 exclude OEM vehicles.)

#### **②Fuel Efficiency of Representative Models**

WAGON R, one of Suzuki's representative models of minitall wagon vehicles<sup>\*1</sup>, features the 2WD CVT and idling stop system, and achieved low fuel consumption of 25.0 km/L<sup>\*2</sup> (10/15 mode).

- \*1 Two-box mini-wagon vehicles with increased height of 1.550mm from the ground.
- \*2 The fuel consumption rates are the values obtained under a specific testing condition. The rates vary according to the actual use conditions (weather, traffic, etc) and driving situations (sudden starting, use of air conditioner, etc).



#### **③Number of 2010 Fuel Efficiency Target Models and Shipment** Quantity

As of the end of March 2011, Suzuki applied the 2010 Fuel Efficiency Target to 15 types and 25 models released in fiscal 2010.

The volume of shipments of the applied models reached 547,604 units in fiscal 2010, accounting for 94.2% of the total quantity of domestic delivery. The fiscal 2010 shipment of the vehicles for Eco-Car Tax Reduction was 402,687 units.

#### Number of Models Achieved "2010 Fuel Efficiency Target" in Fiscal 2010

=		
Vehicles achieved 2010 target	6 types	10 models
2010 target + 5%	6 types	8 models
2010 target + 10%	4 types	6 models
2010 target + 15%	6 types	6 models
2010 target + 20%	5 types	5 models
2010 target + 25%	9 types	10 models

#### **④Efforts for 2015 Fuel Efficiency Target**

Considering the 2015 fuel efficiency target, we have made a future plan for further improving fuel efficiency and will put efforts into it.

Achieved the 2015 fuel efficiency target with some models of Wagon R, LAPIN, ALTO, MR Wagon, and SWIFT.

<sup>2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010</sup> Fiscal



#### Fuel Efficiency Improving Technologies

New MR Wagon improved the fuel efficiency in vehicle mode approximately by 6% thanks to newly developed R06A engine. The fuel efficiency was improved by improving the cooling passage to prevent knocking, improving the intake port to enhance the combustion mechanism, adopting VVT to reduce pumping loss, reducing weight even of many small parts including pistons and crankshafts, and reducing friction. In particular, improvement of the combustion mechanism and reduction of friction was effective in improving the fuel efficiency by exceeding 10%.



**R06A Engine** 

# Improving fuel efficiency of CVT (continuously variable transmission) with sub-transmission

The CVT with sub-transmission which covers wide range of transmission gear ratio was introduced to PALETTE in September 2009, and is now widely installed on Suzuki's all mini vehicles and compact vehicles of 1.2-L class.

The fuel efficiency of New MR Wagon was further improved by adopting the built-in cooler in which the early warming-up system of CVT reduces mechanical loss while the engine is cold and by increasing the gear ratio corresponding to the new engine.



Primary pulley Steel belt

#### Adopting idling stop system

It is promoted to adopt the idling stop system widely as one of technologies to improve fuel efficiency. The idling stop controller, engine controller, CVT controller, ABS controller, etc. work together in the idling stop system, enable the engine to stop and restart smoothly and automatically at the time of waiting for the traffic light etc. and avoid unnecessary fuel consumption. Following Wagon R FX, which was introduced on the market in August 2010, the idling stop system is adopted to New MR Wagon X released in March 2011. With the use of this system, fuel efficiency has been improved by approximately 6% in 10/15-mode driving and the lowest fuel consumption of

27.0 km/L among the minitall wagon vehicles has been realized.





#### Reduction of vehicle weight

#### **Use of tailored blanks**

Tailored blank is a manufacturing method by which steel parts having different thicknesses or materials (high tensile steel plate, plated steel sheet, etc.) are welded in advance with laser welding, etc., and then pressed together. By applying this method to various panel components, it is possible to locally reinforce specific portions, where special strength is required, without adding any part in order to avoid weight increase.

#### **2** Extensive Use of High-Tensile Steel Plate (to All Suzuki Vehicles)

With the use of high-tensile steel plate featuring excellent strength in vehicle bodies, Suzuki has reduced the number of reinforcement parts in order to both reduce the entire weight and enhance the body strength. We promoted to use higher-tensile steel in more locations such as the center pillar (TS:980MPa) and apron side member (TS:590MPa). As a result, the entire vehicle weight has been reduced, while the same or greater level of collision energy absorption capability than the conventional one is ensured.



#### Topics

Topics

# Suzuki received "Engineering Development Award of the 61st JSAE EXPOSITION AWARD" for "development of the rear lower arm\* made of aluminum-extruded material that realized weight reduction by low costs."

Society of Automotive Engineers of Japan, Inc. announced "the 61st JSAE EXPOSITION AWARD" and three of Suzuki's engineers received the "Engineering Development Award." The prize theme is "development of the rear lower arm made of aluminum-extruded material that realized weight reduction by low costs." In addition to a new idea to use aluminum-extruded material for parts, it was approved that new technologies were developed and low cost and weight were realized. This technique is used for the automobile "KIZASHI."

\* Rear lower arm: An automotive suspension part that connects the suspension frame and knuckle of an automobile

#### **Reduction of air resistance**

In the stage of designing the exterior body, Suzuki is doing its best to reduce the air resistance by utilizing the flow simulation to form a body shape that ensures smooth air flow around the vehicle body. Also, through the windtunnel test, we have developed aerodynamic parts, such as air dam and engine undercover, that are designed to rectify air flow under the floor, aiming to further reduce the air resistance.

As for New Solio, the lowest-class air resistance for tall wagons is realized by considering the cross-sectional shape of the A pillar and the rear corner shape.



#### Installation of eco-drive supporting devices

#### **1** Installing Fuel Efficiency Indicator

Suzuki has been increasing the number of vehicles equipped with eco-drive supporting devices, such as a fuel efficiency indicator. In fiscal 2010, such devices were employed in 12 out of 16 models of vehicles.





#### **2**Adoption of Eco-Drive Indicator

An eco-drive indicator has been newly incorporated in WAGON R, LAPIN, PALETTE, SWIFT, New SOLIO, and New MR Wagon all of which were introduced on the market in fiscal 2010. When the instantaneous fuel efficiency and accelerator movement indicates proper driving state for fuel economy, the eco-drive indicator located in the meter panel lights up and stays on. The driver can recognize eco-driving at a glance and fuel efficiency can be improved.



**Eco-Drive Indicator** 

#### Development of Alcohol-Fueled Type Vehicles

We have developed bioethanol-based vehicles using the fuel (E25) containing 25% bioethanol, and are selling them as Grand Vitara, SX4 and JIMNY in Brazil.



**GRAND VITARA** 

#### **Motorcycles**

In order to reduce CO<sub>2</sub> emissions, which are connected to global warming, we are constantly working to develop and improve products that offer superior fuel economy. GSX-R600, GSX-R750, and GSR750 which were introduced on the market in fiscal 2010 increased the fuel efficiency by approximately 10% compared to the base model.

#### Activity for All Models

We are promoting switch-over from the conventional carburetor to an electronically controlled fuel injection system (FI) that enables more optimum fuel injection control.

In addition, we are also making efforts to improve heat efficiency by improving the combustion mechanism, reducing friction, and reducing weight.

#### Example of Applied Product

For GSX-R600 released (for Europe) in January 2011, the accuracy of fuel injection and ignition timing control was raised, and also the piston shape and crank case ventilation hole were improved in order to reduce mechanical loss and pumping loss.

Also, it was promoted to largely cut the total weight of a vehicle and the fuel efficiency was increased by approximately 10% \*<sup>2</sup> compared to the base vehicle.

\*2 Fuel efficiency during WMTC mode. The fuel efficiency varies according to the actual conditions (weather, road, vehicle, driving, maintenance, etc).



GSX-R600



# Outboard Motors Improvement of Fuel Efficiency

In order to reduce CO<sub>2</sub> emissions, which are connected to global warming, we worked to develop and improve products that offer superior fuel economy. The new model "DF300," whose production started in May 2010, achieved improvement of fuel efficiency by 12% compared to the conventional model by employing the EPI (Electronic Petrol Injection) system designed for optimum fuel supply to each cylinder and the lean burn control system, which is highly regarded in "DF40/50/60" and "DF70/80/90." In addition, the feedback control system using the O2 sensor further contributes to improvement of fuel efficiency.



**Fuel Efficiency Improvement Rate** (based on conventional model = 100)



Topics

#### Suzuki's 4-stroke Outboard Engine "DF40/DF50" Won the Technical Innovation Award of NMMA in America

The new 4-stroke outboard engine "DF40/DF50" received the "Innovation Award" of NMMA (National Marine Manufacturers Association of America) at the International Boat Show in Miami (on February 17 - 21, 2011) held in Florida, USA. This "Innovation Award" is given to the most innovative technology at the International Boat Show in Miami, and this was the second time for "DF40/DF50" to receive this award following 1998. "DF40" and "DF50" have improved fuel efficiency by 20% and 30% respectively compared to their conventional models. Such high environmental performance and weight reduction techniques were highly evaluated, resulting in receipt of this award.

Topics



NMMA Technical Innovation Award

#### Life Cycle Assessment (LCA)

Suzuki employs Life Cycle Assessment (LCA), which is a method for quantitative assessment of environmental impact in all stages of a product life cycle from material processing to product disposal. In fiscal 2010, the LCA was conducted on several models, including New SWIFT and PALETTE.

Because the amount of CO<sub>2</sub> emission generated by driving occupies 80% of the total amount of CO<sub>2</sub> emission to be generated during a product life cycle, we introduced the



CVT (continuously variable transmission) to new SWIFT. As a result, the fuel efficiency increased by approximately 35% compared to previous SWIFT and the amount of CO<sub>2</sub> emission generated by driving could be reduced.

The graph below shows the ratio of CO<sub>2</sub> emissions for the product life cycle of previous SWIFT and new SWIFT. The total amount of CO<sub>2</sub> emission could be cut by approximately 20% by improving the fuel efficiency.

#### CO2 emission in each stage of product life cycle of New SWIFT







#### CO2 Reduction by Suzuki Plants and Manufacturing Group Companies

CO2 emissions coming from energy in manufacturing plants during fiscal 2010 were 327,000 t (up 7.6% from the previous year). The amount of CO2 emission per sales amount decreased by 19.7% from the value in 1990. (It indicated a 1.7% decrease from last year.) At our production plants, such energy saving activities as power-off of idle equipment, reduction of pressure of compressed air, etc. are carried out. We are planning to change the fuel type to the one with less CO2 emission or to use natural energy.

Total CO<sub>2</sub> emissions coming from energy in overseas manufacturing plants (19 plants) during fiscal 2010 were 484,000 t.

#### Trends in CO<sub>2</sub> emissions from domestic production plants



#### **CO2 Emission by Plant**

	CO2 emission (1,000 t)		CO2 emission (1,000 t)
Takatsuka Plant	7.0	Toyokawa Plant	7.9
lwata Plant	42.2	Osuka Plant	45.4
Kosai Plant	80.5	Sagara Plant	63.8

#### Energy Saving Activities at Plants

Production plants' energy saving activities, which have been conducted not only domestically, but also abroad, have brought successful results. The following describes the efforts made at six domestic plants and overseas plants, as well as the achievement of CO2 reduction.

We reviewed the operational conditions of conventional facilities installed in domestic and overseas plants, and replaced them with higher efficiency ones, which are found to be effective.

	Six domestic plants	Overseas plants
Reduced amount of CO2(year)	7,912t	42,256t

#### **Energy Saving Activities at Domestic and Overseas Plants**

Major activities	Domestic plants (Saved energy)	Overseas plants (Saved energy)
Stopping power supply when each line does not work	3,681t	76t
Performing proper facility operations and optimizing operating conditions	3,683t	669t
Introducing highly efficient devices (Inverter-controlled devices, etc.)	548t	322t
Consolidating and downsizing facilities	_	3t
Fuel shift	_	39,415t

#### In-Plant Parts and Products Transfer

For transfer of components and completed vehicles in each plant, Suzuki employs automated guided vehicles (AGV), which are CO2-free, battery-type material transportation vehicles.



AGV



#### Promoting the Use of Alternative Energy

As a part of global warming countermeasure, Suzuki is promoting the use of alternative energy by installing three wind force power generation systems (two at Kosai Plant and one at training center) and a small-scale hydraulic power generation system (using industrial water receiving pressure).

#### **Electric Power Generated by Alternative Energies**

	Electric power [kWh]
Wind power (Kosai Plant & Training Center)	1,509,712
Small-scale water power (Kosai Plant)	38,615

#### **CO2 Reduced by Alternative Energies**



#### 03 Efforts for Distribution

#### Using Efficient Transportation and Reducing Energy Consumption

Since the revised Energy Saving Law came into effect in April 2006, Suzuki has promoted reorganization of inhouse environmental system. We will further promote improvement of transportation efficiency and energy saving.

#### **①Trends in CO2 emissions from domestic transportation**

We are trying to reduce transportation distance, improving transportation efficiency, modal shift, increasing fuel efficiency of transportation vehicles, etc. in order to reduce CO<sub>2</sub> emissions due to domestic transportation. As a result, CO<sub>2</sub> emissions during fiscal 2010 were cut by

28% compared to fiscal 2006.

We will continue these efforts to further reduce CO2 emissions in fiscal 2011.



#### ②Reduction of Transportation Distance (for exported automobiles and engines)

At present, automobile engines are manufactured at Sagara Plant and transported to Kosai Plant. However, control of some models has been transferred from Kosai Plant to Sagara Plant, with the engine transportation distance shortened.



#### **③Enhancement of Transportation Efficiency (Motorcycle)**

For efficient product transportation from production plants to dealers, distribution bases have been centralized in a large consuming region. Also, for transportation from the distribution bases to dealers, cooperative transport with other companies is conducted to increase transportation efficiency.



Suzuki Osaka Dispatch Center (Motorcycle)



#### (4) Reduction of Transportation Distance (for imported parts to plants)

In the process of importing parts, they are once stored at warehouses and then delivered to plants. By requesting plants to store parts, we are now reducing the use of warehouses to avoid temporary storage of parts\*.

Also for delivery of tires, some of our plants directly receive tires from tire manufacturers to eliminate the need for temporary storage.

\* Temporary storage of parts: Parts to be used for production are temporarily stored at warehouses, and then delivered to the relevant plants as necessary.

#### Modal Shift

#### Domestic Companies

For domestic transportation of automobiles, Suzuki uses two types of transportation methods: by sea and by land. For transportation to destinations further north from Tohoku and further west from the Chugoku and Shikoku areas, we encourage the use of ocean transportation, considering the economic efficiency and reduction of CO2 emissions. Now, the ocean transportation accounts for more than one third of the total transport.

At present, the ocean transportation accounts for more than one third of all transportation. The amount of CO<sub>2</sub> emitted by ocean transportation is only about 25% of the one emitted by truck transport. And the use of ocean transportation brings about 30% reduction of CO<sub>2</sub> emission, compared with the case where only truck transport is used.



#### • Overseas Companies Efforts by Maruti Suzuki India Limited (India)

The method to transport vehicles was partially changed in December 2008 from conventional trailers to freight trains which generate less CO<sub>2</sub> emissions.

#### Efforts at MAGYAR SUZUKI (Hungary)

Currently, vehicles are transported both by trailers and freight trains. It is planned to increase transportation by freight trains in order to reduce CO<sub>2</sub> emissions.

#### Improvement of Repair Bumper Transportation Efficiency

For transporting repair bumpers, we changed the packaging style from cardboard boxes to air cushion materials, resulting in reduction of the packaging material weight by 50% and the average cubic volume by about 75%. Moreover, lowering the height of transfer pallets has enabled two-tier loading on a truck box, greatly improving the between-plants truck transportation efficiency. The packaging style for bumper transportation was changed at Kosai Plant in fiscal 2008, and then at Sagara Plant in fiscal 2009.

#### Promotion of Eco-Driving

We are promoting eco-driving for truck transport, and at the same time, have increased the use of trucks equipped with eco-driving support devices and idling stop system. As a result, the overall fuel efficiency during transportation has been greatly improved.

Suzuki Transportation & Packing Co., a member company of Suzuki Group, transporting various kinds of Suzuki products and parts to sales agents and dealers, conduct driver training for eco-driving and safe driving as needed to ensure both safety and environment conservation. Corporate Environmental Philosophy and CSR Responsibility Social Responsibility

Data

#### **04 Efforts at Offices**



#### Promotion of Energy Saving and CO2 Reduction

We determined the Standard of Employee Behavior in fiscal 2008, and all of our employees get together and are now promoting energy saving at offices and reduction of C02 emissions. In addition, we put the progress of each activity in relation to the Standard of Employee Behavior on the internal homepage so that individual employee can check the result of their activities. As a result of those energy-saving and C02 reduction activities, the amount of C02 emission per employee decreased by 3.7% in average from the previous year for three consecutive years from fiscal 2008 to 2010. Details about those activities are as follows:

#### **1**Standard of Employee Behavior

We have established Standard of Employee Behavior (for In-house Cost Cutting Activities), which covers a wide range of activities, for the purpose of promoting energy saving and CO<sub>2</sub> reduction by individual employees.

#### [Standard of Behavior for In-house Cost Cutting Activities (Excerpt)]

- ①Follow the predetermined temperature settings of air conditioner (cooling at 28°C and warming at 20°C).
- ②Turn off unnecessary electric lights
- ③Save electricity of electric appliances.
- (4) Implement eco-drive.
- ⑤Computerize documentary forms and minimize printout of electronic data.

#### <sup>(2)</sup>Visualization of various activities in relation to the Standard of Employee Behavior

To allow individual employees to check the effect of energy saving activities, we put the following information in our internal homepage: changes in electric consumption at each of major offices and plant buildings, consumption of printing paper, and the progress of each activity specified in the Standard of Behavior.

#### Topics

#### **Participation in Light-Down Campaign**

49 domestic sales dealers (including dealers that participated as different bodies) participated in and cooperated with "Light-down Campaign" sponsored by the Ministry of Environment on June 21 and July 7, 2010. This event was implemented to "feel how much lighting we use during daily life where we are used to lighting up and think over global warming problems by turning off the light." Suzuki sales dealers cooperated and enlightened the purpose of this event by lighting down external illumination (installed to the sign pole, company name signboard, and outer-wall signboard). In addition, Suzuki Motor Sales Kagawa and Suzuki Motor Sales Kochi also participated and cooperated in the lighting-down event of "Moon Night SHIKOKU" sponsored by four prefectural governments in Shikoku area on September 22, 2010.

#### Promotion of Eco-Driving

#### **1**Eco-drive education for employees

Previously, we provided eco-drive education as a part of environmental education. In fiscal 2009, we started a special seminar focusing on eco-drive at the headquarters and each plant/office. This seminar has been attended by 1,157 persons so far, and it has brought about an effect of improvement in fuel efficiency of in-house cars by 0.8 km/L.



#### **2**Promotion of eco-driving by customers

We prepared a leaflet "Easy Eco-Drive Technique" to allow our customers to understand eco-driving and drive their cars in an environmental-friendly and economical manner. This leaflet describes 10 points in relation to eco-driving using illustrations and examples in an easy-to-understand manner. This leaflet is distributed to Suzuki sales dealers all over Japan and utilized for promotion of eco-driving. The contents described in this leaflet are also available

from our homepage. http://www.suzuki.co.jp/car/carlife/ecodrive/index.html





Topics

<After turning off> Suzuki Motor Sales Kagawa (Moon Night SHIKOKU)
01 Efforts for Development

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## Promoting the Three Rs (Reduce, Reuse, and Recycle)

Corporate

**Philosophy and CSR** 

Environmental Responsibility

Promoting resource recycling through Reduce, Reuse, and Recycling activities in all areas of products, manufacturing, distribution, etc. to effectively use limited resources

Suzuki believes that it is important to effectively utilize limited resources in order to pass on to the next generation a bountiful society. We are trying to promote recycling of resources through our business activities by carefully considering "Reducing" (reducing weight of parts and improving yield to reduce consumption of raw materials), "Reusing" (using rebuilt parts made of used parts as it is again for supply), and "Recycling" (collecting and using unnecessary items as raw materials for another product).

## 01 Efforts for Development

### **Automobiles**

#### Reducing

Among 3Rs, the first priority should be "Reducing (reduction the amount of wastes)". Under the policy of making parts Smaller, Fewer, Lighter, Shorter, and Neater, Suzuki is promoting reduction of wastes by thoroughly reducing weight and materials to be used. For example, the front bumper of LAPIN has been slimmed through reduction of the wall thickness of bumper body and perforation of the license plate and radiator grill fitting parts of bumper body.



#### Recyclable design

Recyclable vehicle design is an important factor to allow for easy recycling of end-of-life vehicles. To produce environmentally-friendly vehicles, Suzuki uses easy-torecycle materials in exterior and interior resinous parts.

#### **Use of Easily Recyclable Resinous Materials**

Plastic is roughly divided into two types: "Thermoset resin"\*1 and "Thermoplastic resin"\*2.

By applying the thermoplastic resin to almost all plastic parts, Suzuki is promoting environmentally-friendly vehicle manufacturing.

#### Major Components Using Recyclable Resinous Materials (Example: Exterior components of MR Wagon)

Social

Responsibility



\*1 Thermoset resin This type of resin material will not be softened or melted by reheating after being hardened by heat or pressure. It is like a bisket or ceramic.

\*2 Thermoplastic resin: Even after being formed, this type of resin material can be softened or melted by reheating and will be solidified by cooling. It is reusable through repetitive melting and solidifying. It is like a chocolate and candy.





## **Motorcycles**

Consideration to design for improving recyclability among 3R designs is explained here using examples of Address V125 and Bandit 1250F.

#### Recyclable design

①**Use of Colored PP\* Resin Materials and Recyclable PP\* Materials** Materials that can be recycled easily or recycled materials are used for motorcycle parts in order to improve recyclability. Colored PP\* parts are used for the foot board or rear fender of Address V125, and recycled PP\* materials for the movable fender, fixed fender, and U-lock holder.

\* PP : Polypropylene

#### **2** Ease of Disassembling

We are pursuing ease of disassembly of parts for promoting recyclable design. For Address V125, the claw structure is located at an optimum position to enable easy disassembly of the exterior parts without using any special tools. For Bandit 1250F, on the other hand, the number of resin parts is reduced by approximately 30% by integrating parts of the body cowl, under cowl, meter panel, etc. so that these components can be disassembled more easily.



Address V125



Bandit 1250F



## Efforts for Manufacturing



Note: The data cover only Suzuki.

#### Waste Reduction

02

#### **1**Reduction of waste and landfill

At our six domestic plants, the zero-level landfill waste\*1 was achieved in August 2001 through reduction of waste and promotion of recycling. Then, since 2007, the zero level has been maintained.

Also, domestic manufacturing group companies achieved the zero-level\*2 in fiscal 2010, with the landfill waste decreasing to less than 1% of the amount (1,370 t) recorded in fiscal 2002, when the collection of the landfill waste data was started.

We will promote further reduction of waste, while

Total waste discharge amount and landfill waste amount





3.0 108 100 20 50 10 0.0 0.0 0.0 0.0 0 2006 2008 2009 2010 Fiscal year 2005 2007

We made investigations into the use of asbestos, and the collected \*3 asbestos materials were disposed of by landfill because it is difficult to recycle those materials at present.

maintaining the zero level of landfill waste. At overseas manufacturing group companies, the total waste discharge amount and landfill waste amount data are now being collected.

- Definition of Suzuki's zero level \*1
- Landfill waste shall be less than 1% of the amount recorded in 1990 (24.675 tons).
- Definition of zero level of domestic manufacturing group companies Landfill waste shall be less than 1% of the amount recorded in fiscal 2002 (1,370 tons). (The fiscal 2002 is the year when the waste reduction efforts were started by domestic manufacturing group companies.)



Note) The total discharge amounts (at our six domestic plants and at manufacturing group companies) include a part of waste discharged by non-manufacturing departments. In the future, all of the wastes discharged by both manufacturing and non-manufacturing departments will be combined as the total discharge amount. Note) Among the total amount of emergence, the discharge amount indicates the amount of wastes and recyclable materials transferred outside each company.

#### Total waste discharge amount and landfill waste amount at nine domestic manufacturing group companies



#### **2**Reduction of Incinerated Wastes

The amount of incinerated wastes was reduced by 28.6% from the amount recorded in 2000. Dioxin compliant incinerator at our Kosai Plant is used to dispose of burnable waste to reduce waste and use effectively the heat energy. In addition, the amount of dioxin emission is reduced by the oxygen control function incorporated in our incinerator management system. As a result, the dioxin level in fiscal 2010 was 0.120ng-TEQ/Nm<sup>3</sup>, which was well below the regulatory level (5ng-TEQ/Nm<sup>3</sup>).



#### Activities for the Law for Promotion of Effective Utilization of Resources

Based on the Law for Promotion of Effective Utilization of Resources, which came into effect in April 2001, we have created a "Controlling the Occurrence of By-products Plan" and reported the plan's results. The purpose of this plan is to control the occurrence of By-products, such as scrap metal and waste casting sand. In fiscal 2010, we reduced those By-products to 7.9 tons per 100 million yen of sales. Our 2011 target has been set to 7.3 tons per 100 million yen.







#### Water usage measures

We are working on ways to conserve water and reuse wastewater in order to reduce the amount of water used in our domestic manufacturing plants.

For this purpose, we are utilizing airtight cooling towers, air cooled compact air conditioners, water conserving faucets, rain water collection, collection of water from coolers, and reuse of waste water.

Through the promotion of those activities, the total amount of water consumption was reduced by 18% compared to fiscal 2006.



#### **Amount of Water Used**

Note: The data cover only Suzuki.



**03 Efforts for Distribution** 

**Special Topics Philosophy and CSR** 

Corporate

Environmental Responsibility

Social Responsibility

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#### Efforts through Reducing and Reusing

#### **Using Returnable Containers**

We are actively pursuing the use of returnable containers in our domestic transportation and delivery activities. Cardboard had been previously used domestically but we started using returnable containers from fiscal 2003 to reduce paper and improve operating efficiency.

In fiscal 2010, returnable containers accounted for 22% of the total number of containers used in shipments out of our factories, reducing the use of cardboard by about 72 tons. Also, returnable containers used for receiving shipments accounted for 53% of all receiving containers, resulting in reduction of about 161 tons of cardboard.



Returnable containers used in shipments out of the factories.



Returnable containers used in shipments received.

#### **2**Promotion of using returnable containers for packaging materials

Suzuki make efforts to use returnable racks instead of steel cases, which used to be discarded at local plants, in order to reduce the amount of packing and packaging materials used.

In fiscal 2010, we began to send returnable racks to Ecuador. In addition, we have already used returnable racks in Hungary, India, Indonesia, Taiwan (Tai Ling Motor), Pakistan (motorcycles and automobiles), USA (SMAC) and China (Changan Suzuki). As a result, about 65% of packaging materials are transported with the use of returnable racks.

#### Efforts through Recycling

#### **Reusing Cardboard**

Suzuki reuses cardboard materials already used in factories as cushioning materials. Since a machine that produces cushioning materials was introduced in 2003, we have promoted reuse of waste cardboards. In fiscal 2010, we reused about 31 tons of them.



Cushioning material made of the recycled waste cardboards



**Special Topics Philosophy and CSR** 

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#### **04 Efforts at Market**



### **Automobiles**

#### **Domestic Recycling Promotion**

#### **1**Efforts for Automobile Recycling Law\*1

We accomplish obligations for collection and recycling of ASR\*2, airbags, and Freon of end-of-life vehicles according to the Automobile Recycling Law executed in January 2005. We conducted the following in fiscal 2010 (from April 2010 to March 2011).

#### **(2)**Collection and Recycle of ASR

In fiscal 2010, we achieved the ASR recycling rate of 82.2% and have maintained achieving the 2015 legal target of 70% or higher since fiscal 2008.

We are promoting collection and recycling of ASR through the ART\*3 that we organized in cooperation with other 13 automobile manufacturers (as of June 1, 2011), such as Nissan Motor Co., Ltd., Mazda Motor Corporation, and Mitsubishi Motors Corporation in order to work together with recycling companies throughout the nation for conforming to the relevant regulations, properly disposing of waste, increasing the recycling rate, and reducing the disposal cost.

#### **3**Collection and Recycle of Air Bags and Freon

In fiscal 2010, the airbag recycling rate at Suzuki was as high as 93.9%, and we have maintained the level higher than the legal target "85% or higher" since 2004. Also, we collected and disposed of 84,791 kg of Freon.

For collection and recycle of air bags and collection and disposal of Freon, we organized Japan Auto Recycling Partnership with other automobile manufacturers to cooperate with recycling companies throughout the nation.

We will make continuous efforts to promote the recycling activities, while designing easy-to-recycle products, saving and effectively using resources, reducing the amount of wastes, reducing the cost of recycling, and establishing a stable recycling system.

Automobile Recycling Law: Formal name "Act on Recycling, etc. of End-of-Life Vehicles \*2 Automobile Shredder Residue

- Abbreviation for Automobile shredder residue Recycling promotion \*3 Team

#### **Result of recycling in fiscal 2010**

<Results of recycling of three items>

	Collected weight / Collected quantity	43,953 t/382,534 units			
ASR	Total weight of recycled ASR	36,134 t			
	ASR recycling ratio	82.2%			
Airbags	Collected weight/ Collected quantity	18,942 kg/67,401 units			
	Total weight of recycled airbags	17,791kg			
	Airbag recycling ratio	93.9%			
Freon Freon collected weight /		84,791 kg/294,991 units			

#### <Balance of Payments>

Balance er raymente	(Unit: yen)
Amount of official credit deposit received	2,286,742,903
Amount of recycling cost	2,127,539,576
Balance of Payments	159,203,327

#### Promotion of Recycling Abroad

In Europe, End-of-life Vehicle Directive (ELV Directive: 2000/53/EC) came into effect in 2000, requiring automobile manufacturers and importers to establish a proper system for collecting and disposing of end-oflife vehicles. Suzuki is creating ELV collection network systems suitable for respective conditions of individual countries. In addition, we are obliged to provide disposal companies with the dismantling information of new model automobiles and give such information through the international information system IDIS (International Dismantling Information System) organized by automobile manufacturers.

RRR (Reusability, Recyclability, Also, under the Recoverability) Directive 2005/64/EC, which came into effect in 2005, we were audited by an authorized auditing agency on our systems for collecting material data and verifying environmental impact substances, and acquired the certificate of compliance (COCom) in August 2008. We obtained the RRR Directive approval for all of our vehicles sold in Europe. In addition, we renewed the certificate of compliance (COCom) in August 2010.

In China, an automobile recycling law is now under consideration, so we are conducting the regulatory trend survey by keeping close contacts with our local subsidiary to prepare for conformance to the new regulation.

Data

## Efforts for Recycling of Bumpers

**04 Efforts at Market** 

In an effort to use resources more effectively, we have been collecting and recycling used bumpers that have been removed from automobiles by distributors at the time of repair or replacement.

Initially, used bumpers were collected from distributors in the original form. Since 2000, however, they have been collected after being shredded by a shredding machine, which has been installed in almost all of our distributors (with some exception). As a result, the cubic volume of the (shredded) bumpers for transportation was reduced to 1/6 of the previous volume, allowing for reduction of CO<sub>2</sub> emission during transportation due to efficient transfer.

The collected bumpers are recycled and reused to produce such automotive parts as battery trays, engine undercovers, foot rests, etc.

#### **Examples of parts using recycled materials**





Engine Undercover

Foot Rest

#### Supply of Rebuilt Parts (with Reused Parts)\*

For effective use of natural resources and reduction of customers' economic burden, Suzuki deals in rebuilt parts for automatic transmission.

In fiscal 2010, the sales of rebuilt parts accounted for 54.4% of the total sales quantity of target parts.

 Rebuilt parts are the parts that are removed and collected at the time of repair, reproduced with the damaged or worn portions replaced, and finally inspected.



Automatic Transmission

### Motorcycles

Environmental Responsibility

#### Actions for "Voluntary Motorcycle Recycling Efforts"

We have autonomously operated the "motorcycle recycling system" together with three other domestic motorcycle manufacturers and twelve import business operators since October 2004 in order to ensure proper disposition and recycling of end-of-life motorcycles.

End-of-life motorcycles are collected at "discarded motorcycle dealers" and "certified collection centers" throughout the nation for convenience of our customers. These end-of-life motorcycles are then collected at fourteen scrapping/recycling facilities, and disassembled, shredded, and separated. Those that can be used as recycled materials are reused, while other waste materials are properly disposed of. The recycling rate in fiscal 2010 is 87.6% of the weight basis.

Users were charged recycling fees for vehicles without the recycling mark upon disposal. However, the recycling fee system was changed in October 2011 not to require the fee if motorcycles were sold in Japan by the members of this recycling system.

For more details, access the following websites (Japanese only).

Voluntary Motorcycle Recycling Efforts by Suzuki (Details) http://www2.suzuki.co.jp/motor/recycle/index.html

Japan Automobile Recycling Promotion Center. (Details for motorcycle recycling)

http://www.jarc.or.jp/motorcycle/





### **Outboard Motors**

#### Voluntary Promotion of FRP\*1 Boat Recycles System

Suzuki aggressively participates in the program called the "FRP Boat Recycling System" autonomously promoted by the Japan Boating Industry Association together with other six major manufacturing companies\*<sup>2</sup>.

The "FRP Boat Recycling System" started in ten prefectures in west Japan in 2005 and was developed to the whole country in 2007 in order to prevent inappropriate scrapping of boats due to product characteristics such as high strength and long durability, and to ease such scrapping for users. Discarded FRP boats are collected to 38 designated scrapping business companies through registered centers at approximately 450 locations all over Japan, and finally recycled by cement combustion.

Suzuki has participated in this system certified by verification tests of the Ministry of Land, Infrastructure, and Transport since its foundation, and widely accomplishes the responsibility for appropriate scrapping and recycling of FRP boats.

- \*1 FRP: fiber-reinforced plastic
- \*2 Kawasaki Heavy Industries, Ltd., Tohatsu Corporation, Toyota Motor Corporation, Nissan Marine, Yamaha Motor Co., Ltd., Yanmar Marine System Co., Ltd.

For more details, access the following websites (Japanese only).

Suzuki Voluntary Actions for FRP Boat Recycling System (Details) http://www1.suzuki.co.jp/marine/info/index\_002.html

Japan Boating Industry Association (FRP Boat Recycling System) http://www.marine-jbia.or.jp/recycle/index.html



## 05 Efforts at Offices

Under the policy of making parts Smaller, Fewer, Lighter, Shorter, and Neater, Suzuki is making efforts for paper reduction and material recycling.

#### Efforts through Reducing and Recycling

#### **1** Paper Reduction

For the purpose of reducing the amount of paper used, Suzuki has been aggressively conducting company-wide paperless and paper reduction activities by promoting computerization of various documentary forms, use of backing paper, and reduction of documents used at meetings.

As a result of those activities, the amount of paper consumption was reduced by 3.2% from the previous fiscal year.

## Flowchart of disposal after separate collection of paper waste

**2**Promotion of Material Recycling of Paper Waste

At Suzuki head office, paper wastes were previously burnt for thermal recycling (reused as heat energy). Since July 2005, however, material recycling has been conducted, instead of the thermal recycling, through separate collection of office documents, newspapers and magazines, cardboards, etc. In fiscal 2010, 869 tons of paper wastes were recycled.

	Outsourcing		In-house Disposal at Suzuki			Outsourcing							
Type of Waste	Collection & Transportation		Intermediate Treatment		After Treatment		Collection & Transportation		Intermediate Treatment		Final Treatment		Reuse or Disposal
	Collection &		Burning at		Particulates				Melting		Shredding		Used as Roadbed Materials
Waste Paper	Transportation Companies	→	Incineration Site of Kosai Plant	→	Burnt Residue	→			Sorting		Firing		Used as Cement Raw Materials
Office Documents	-				Collection & Transportation → Companies		Collection & Transportation	→		<b>→</b>		→	Used as Recycled Paper
Cardboards								Compression		Molting		Recycled into Cardboards	
Newspapers, Magazines, Catalogs, etc.			<b>→</b>						Compression		weiting		Used as Recycled Paper
Specific Waste Paper									Burning		Landfill		Landfilling of Incinerated Ash

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## **Promotion of Environmental Conservation etc.**

Environmental

Responsibility

Social

Responsibility

Corporate

Philosophy and CSR

Promoting environmental conservation for manufacturing products that our customers can use with relief and for business activities that minimize influences to environment

Currently, about 100,000 types of chemical substances are manufactured and sold. Suzuki recognizes these chemical substances that may be used during our business activities, such as inclusion into our products, use/ disposal at plants, flow-out upon disposal, etc. and promotes reduction of environmental impact substances in order to minimize influences to health and environment.

## **01** Efforts for Development

### Automobiles Reducing Exhaust Gas

#### **(1)**Compliance with domestic emission control regulations

At Suzuki, all of new vehicles are designed to meet the 2005 exhaust emissions standards (new long-term standards). Among vehicles introduced on the market in fiscal 2010, we increased the numbers of types and models that were certified as  $\frac{1}{\sqrt{2}} \frac{1}{\sqrt{2}} \frac{1}{\sqrt{2}} \frac{1}{\sqrt{2}}$  low-emission vehicles to 10 types and 18 models as of the end of March 2011.

We will further promote activities to reduce exhaust gas in order to increase the types and models that will be certified as AAAAA low-emission vehicles.

#### **Vehicles Conforming to Emission Control Regulations**

	Number of types and models
Equal to 2005 Emission Standard	5 types 6 models
☆☆☆ Low-emission vehicle: 50% lower than 2005 Emission Standard	7 types 10 models
☆☆☆☆ Low-emission vehicle: 75% lower than 2005 Emission Standard	10 types 18 models

#### Shipment Record of Certified Low-Fuel Consumption and Low-Emission Vehicles



#### **(2)**Compliance with overseas emission control regulations

We have launched newly designed vehicles to conform to the updated emission standards in various countries, such as European regulations (EURO 5).

#### **③Exhaust Gas Reduction Technology**

As to the newly extended standards, promote early response to JC08/OBDII.

#### Reducing Noise

#### **1**Efforts for Vehicle Exterior Noise

We are working to reduce vehicle noise, aiming to reduction of road traffic noise, which is regarded as one of the environmental issues. Specifically, we are reducing various kinds of noises from the engine, transmission, air-intake and exhaust systems, and tires. At the same time, we are optimizing the design of the sound insulation cover that is used to prevent the inside noises from being released to the outside of vehicle.

And we are incorporating those improvements in vehicles which are in production. As a result, all automobiles manufactured by Suzuki and sold in Japan have satisfied the requirements of domestic regulations related to vehicle external noise.

Also, in order to conform to the newly established interchangeable muffler's acceleration noise regulations, which became effective in December 2008, we have completed the required design of the optional muffler to be sold by Suzuki.

#### **Major Noise Prevention Measures**

Reduction of radiated sound	<ul> <li>Noise absorbing material attached on the back of bonnet</li> </ul>
Reduction of suction noise	<ul> <li>Addition of resonator</li> <li>Increased rigidity of air cleaner case</li> </ul>
Reduction of wind noise	<ul> <li>Optimized shape of side mirror</li> </ul>
Reduction of engine noise	<ul> <li>Head cover for damping structure</li> <li>Increased rigidity of oil pan</li> <li>Increased rigidity of cylinder block</li> <li>Reduction of various accessories' noises</li> <li>Reduction of mechanical noise</li> <li>Adoption of silent chain</li> </ul>
<b>S</b> Reduction of radiated sound	<ul> <li>Sound insulation cover with noise absorbing material</li> </ul>
Reduction of exhaust noise	<ul> <li>Addition of sub-chamber</li> <li>Damping of heat shielding cover's vibration</li> </ul>
Reduction of transmission noise	<ul> <li>Increased rigidity of case</li> <li>Improvement of gear engagement accuracy</li> <li>Adoption of silent chain</li> </ul>
Reduction of exhaust noise	<ul> <li>Improved inner structure of muffler</li> <li>Increased capacity of muffler</li> <li>Improved exhaust port</li> </ul>
<b>9</b> Reduction of tire noise	
Reduction of     differential gear noise	<ul> <li>Improvement of gear engagement accuracy</li> </ul>



#### **2**Efforts for Vehicle Interior Noise

Also, to provide comfort and quiet interior environment to users, we are promoting reduction of vehicle interior noise by improving noise sources and taking sound absorption, sound insulation, and vibration damping measures.

#### **Examples of Noise Reduction Measures for New MR Wagon**

- ·Adopt a new-type engine.
- •Change the engine mount supporting method and adopt a hydraulic engine mount.
- ·Improve the body structure.
- •Adopt low-vibration bush for the front suspension.
- •Employ a sound absorption type ceiling.
- •Enlarge the dash silencer.
- ·Absorb engine room noise.
- Install a sound insulation cover in the fender.



New MR Wagon

### Motorcycles

#### Reducing Exhaust Gas

#### **1**Activities for All Models

Suzuki is working to meet the Euro 3 regulations in Europe to reduce emissions from its motorcycles. In addition, we are developing vehicles conforming to local emission regulations in Asian countries such as India, China, Indonesia, Thailand, etc. in order. (In fiscal 2010, GT125 in India, EN150 in China, FL125FS in Thailand, etc. met the regulations.)

#### **(2)**Example of Applied Product

GSX-R600 released (for Europe) in January 2011 is equipped with the PAIR\*, O2 sensor feedback control, and metal honeycomb catalyst to reduce gas emissions, and satisfies the Euro 3 regulations in Europe.

\* PAIR : Pulsed-AIR injection

#### Reducing Noise

#### **1**Activities for All Models

We have been making efforts to reduce motorcycle noise, aiming to reduction of road traffic noise, which is regarded as one of the serious environmental issues.

As a result, all models in Europe have satisfied the EC Directive 2009/108/EC.

#### **2** Example of Applied Product

The following describes our noise reduction efforts, taking an example of GSR750.

GSR 750 is designed to minimize the weight increase, while employing many noise reduction structures in order to satisfy the noise regulations in Europe.







• The air cleaner is made of resin with additive agent included. In addition to this resin material, the rib structure assures optimum rigidity and establishes both noise reduction performance and weight reduction.



Air cleaner

**2**The rib structure on the back of the engine sprocket cover is optimized by CAE analysis to assure both the resonant sound measures and weight reduction. Measures are taken similarly to the engine case to reduce radiated sound from the wall.



Engine sprocket cover

Engine case

3A rubber damper has been installed on the drive sprocket, resulting in reduction of drive chain's engagement noises.



Engine sprocket

4 As for mufflers that reduce exhaust sound, the structure in the muffler is optimized by CAE\* analysis to assure both damping performance and weight reduction.



#### **③Future Technology**

With the use of CAE\*, we are now developing a lightweight and efficient noise reduction system through the optimization of sound deadening structure and the adoption of lighter and more effective noise absorbing and vibration damping materials.

At the same time, we are promoting more efficient development by introducing necessary facilities for performing higher accuracy tests.

\* CAE : Computer Aided Engineering Designing and manufacturing of products and/or advance verification of process design, making use of computer technology.

## **Outboard Motors**

#### **Reducing Exhaust Gas**

Suzuki outboard engines satisfy the requirements of the 2008 emission regulation values set by California Air Resources Board (CARB), the secondary regulation values set by the U.S. Environmental Protection Agency (EPA), and the 2011 marine engine emission voluntary regulation values (secondary regulation) by Japan Boating Industry Association.

#### Secondary EPA Regulation Values and Suzuki Model's Emission Values





#### Managing Environmental Impact Substances

In 2003 we introduced IMDS (International Material Data System), which is a material data collection system focused on automobile industries. And based on it, we established an in-house environmental impact substances control system (see the chart below). This system allows us to control not only the four heavy-metal substances (lead, mercury, hexavalent chromium, and cadmium) targeted by European ELV Directive, but also substances

of very high concern (SVHC\*) specified in the REACH (Registration, Evaluation, Authorization and Restriction of Chemicals).

In fiscal 2010, we identified 19 types of automobiles and motorcycles in total to be in compliance with the environmental impact substances-related laws and regulations.

\* SVHC : Substance of Very High Concern



#### **Reduction of Environmental Impact substances**

Suzuki not only strictly follows the goals set by Japan Automobile Manufacturers Association and European ELV Directives, but also aggressively promotes reduction of the four kinds of heavy-metal environmental impact substances for all models of automobiles, motorcycles, and outboard motors even in business areas where specific regulations do not apply.

Following the non-chrome treatment technique (white) on galvanization practically introduced in fiscal 2009 to further reduce environmental impact substances, we have developed black non-chrome treatment technique on galvanization in fiscal 2010. This new technique is currently evaluated for practical use.

In many countries, various environmental impact substances-related regulations have been tightened, such as REACH which became effective in June 2007 to control chemical substances in Europe. Under such circumstance, Suzuki also carries out hexavalent chrome reduction activities for automobiles in Asian countries, including India.

It is said that reduction of hexavalent chrome is difficult for outboard engines. However, we achieved complete abolishment of hexavalent chrome for all outboard engine models manufactured in domestic plants by July 2011. Also, we are promoting the plan to abolish hexavalent chrome in plants in Thailand by 2013.



Black Non-chrome galvanized bolt

#### Reduction target set by JAMA (new vehicles)

	-
Materials to be reduced	Reduction target
Lead	Automobiles: 1/10 or less in and after Jan. 2006 (compared with 1996) Motorcycles : 60g or less in and after Jan. 2006 (in 210kg vehicles)
Mercury	Prohibition of use in and after Jan. 2005 excluding: ·LC display for navigation system, etc. ·Combination meter, discharge head lamp, room lamp
Hexavalent Chromium	Prohibition of use in and after Jan. 2008
Cadmium	Prohibition of use in and after Jan. 2007



#### Compliance with European Chemical Control Regulation (REACH - CLP)

In June 2007, the environmental impact substancesrelated regulation REACH (Regulation concerning the Registration, Evaluation, Authorization and Restriction of Chemicals) became effective to protect people and environments in Europe from hazardous chemical substances. Concerning hazardous chemical substances to be used in manufacturing and/or to be imported, REACH requires companies to list, evaluate, register, report, and disclose them (to customers). For compliance with REACH, cooperation throughout the supply chain is crucial. In order to prevent turmoil in the world's automobile industry, a task force has been organized in cooperation with European, U.S., Korean, and Japanese automobile and parts manufacturers to determine a common policy for the compliance.

While going with the task force and cooperating with our European plants, distributors and customers, Suzuki promoted compliance with REACH and completed the necessary preliminary registry before December 2008. In addition, we have completed the report on Substances of Very High Concern (SVHC) of which deadline is June 1, 2011.

The new regulation (CLP) for classification, labeling, and packing of chemical substances and compounding became effective in Europe in December 2008. Similarly to the action for the REACH, Suzuki promoted actions for the CLP while cooperating with our local plants, distributors, and customers, and has completed the report on hazardous substances (listed in the CLP) contained in substances and compounds to ECHA (European Chemicals Agency), before its deadline in December 2010.

We will keep close relations with suppliers not only to communicate the supply chain information necessary for registration of REACH, but also to respond to the requirements for the certificate on Substances of Very High Concern (SVHC) and licensed/controlled materials, and additional submission for CLP.

#### Developing of Lead-Free Soldering

We are developing a technology for replacing the leadcontaining solder used in the Electric Control Unit (ECU) with a lead-free solder to reduce the environmental impact.

And we have introduced the lead-free solder into the EPI controller installed in some Suzuki vehicles since fiscal 2004.

#### **Reducing VOCs (Volatile Organic Compounds) in Car Cabin**

To improve the comfort inside the vehicle by reducing the amount of VOC emissions, we have reexamined materials used in vehicle cabin, adhesives, coatings, etc. For all new domestic models sold since January 2006, we have successfully achieved lower cabin VOC levels than the target set by the Ministry of Health, Labor and Welfare, which is deemed as the automobile industry's voluntary goal\*. We intend to further reduce the VOC value for all models to be sold in Japan. Also, we added the target for TVOC (Total Volatile Organic Compounds) in the inhouse regulation in fiscal 2010 to further improve interior environment by reducing other VOC not specified by the Ministry of Health, Labor and Welfare.

## Examples of 2010 Models That Achieved Lower Cabin VOC Levels than the Target



\* JAMA (The Japan Automobile Manufacturers' Association, Inc.) takes a voluntary approach to reducing the vehicle cabin VOCs of 13 different substances defined by Japan's Ministry of Health, Labor and Welfare to lower levels than the governmental target by imposing the voluntary targets on new model passenger cars to be marketed in and after April 2007 and new model commercial vehicles to be sold in and after April 2008.

#### Reduction of Freon (HFC)

(By reducing air conditioner refrigerant and using alternative refrigerant)

### **1** Reducing Air Conditioner Refrigerant

For the purpose of reducing the usage of air conditioner refrigerant (HFC-134a) that is one of the factors causing global warming, we have optimized the design of air conditioning systems, and at the same time, are making efforts for downsizing the heat exchanger and introducing a sub-cooling system. The air conditioner system of the refrigerant saving type is adopted in all models by domestic production car and adopts it to an oversea production car sequentially.

#### **2**Use of Alternative Refrigerant

We are now conducting research and development of a next-generation air-conditioning system using an environmentally friendly refrigerant (HFO-1234yf) that can replace the current air conditioner refrigerant (HFC134a) to minimize the effects of global warming.





#### Control of SOx and NOx Exhaust Amount (at our six domestic plants)

We reduce SOx (sulfur oxides) and NOx (nitrogen oxides) exhaust amounts by applying higher voluntary standards to those oxides exhausted from boilers, etc. in order to prevent air pollution.





#### Reduction of Odor and Noise

Although we strictly follow the relevant regulations or laws, the odor and noise released from our plants may make local residents uncomfortable. Compliance with the laws and regulations is the minimum required CSR (corporate social responsibility). Aiming to be fully trusted by the local community, we will continuously promote necessary measures for prevention of noise and odor and elimination of the potential sources of them.

#### Promoting Green Procurement

We have established "Suzuki Green Procurement Guideline" as our policy to purchase eco-friendly parts and materials from suppliers that are aggressively conducting environmental conservation activities.

We ask suppliers that agree to this Guideline to submit "Suzuki Green Procurement Promotion Agreement," and give priority, in transaction, to those suppliers that aggressively work for environmental conservation activities to promote the green procurement.

We partially revised this Guideline in May 2011. The expression "parts, raw materials, etc." was changed to "parts, post-attachment components, raw materials, and submaterials" to clarify applicable items. Furthermore, "packing materials, machinery, equipment" is added to expand the scope of application. Based on this revision of the Guideline, we will implement the green procurement activities that consider environment and people for not only Suzuki's products but also packing when purchasing parts etc. or machinery and equipment for production and development. In addition, we have added substances not prohibited by or listed in the GADSL\* of prohibited materials described in "Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc." and "Labor Safety and Sanitation Law" into the "Suzuki Controlled Chemical Substance List" so that overseas suppliers can understand prohibited substances regulated by laws in Japan.

Moreover, we are also going hand in hand with suppliers to conform to conventional regulations such as "European ELV Directive" and "European Regulation concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH)" and other various environmentrelated laws and regulations to be established in future.

Suzuki will make further efforts for global environmental protection with suppliers by continuously promoting the green procurement.

\*GADSL : Global Automobile Declarable Substance List

#### Purchasing New Substances

When the purchase of materials such as paints, oil, detergents, etc. is necessary, our environmental management section discusses the substance's toxicity, how much of it will be used, how it will be used, how it will be stored, etc., then decides whether the substance should be purchased or not. Data gained from these investigations is used and managed as PRTR data, which is then utilized when working to reduce the volume of these materials. Also, the most up-to-date data and information is used to manage MSDS\* for raw materials.

\* MSDS (Material Safety Data Sheet): This sheet lists materials, hazards, and handling cautions, etc. Water-Soluble Paints



#### PPTR (Pollutant Release and Transfer Register) Targeted Substances

To reduce materials with environmental impact, we are working to reduce PRTR targeted substances. As a result of the efforts to reduce PRTR-related substances contained in paints and cleaning thinners, the amount of emissions of them was 1,303 tons in fiscal 2010.



#### Amount of PRTR Materials that are Used and Emitted

#### VOC (Volatile Organic Compounds)

VOC is a chemical contained in solvents mainly used in the painting process. Suzuki is working to reduce the amount of VOC emission in the painting process. In fiscal 2010, the amount of VOC emissions from the automobile body, bumper and motorcycle paints was  $47g/m^2$ , which indicates a reduction of 4.1 g/m<sup>2</sup> from the previous year. We reduced consumption of washing solvent and improved the method to collect used solvents in fiscal 2010. We will promote reduction of VOC emissions by changing the type of paint for bumper to the high-solid type that contains less VOC, etc.



#### Soil and Groundwater Protection

After organic chlorine compounds (trichloroethylene and cis-1, 2-dichloroethylen) were discovered in the groundwater at the Takatsuka Plant in January of 1999, we initiated a continuous cleanup effort of the groundwater and took measurements along the site boundaries.

#### Preventing the Leakage of Sewage

As a part of our water management activities, our analysis department periodically analyzes plant effluent, groundwater, water used in factory processes, and industrial water to ensure that sewage does not leak from the plants. In addition to water quality, we also investigate components in soil and inspect industrial wastes.

If any abnormality should be found in water quality or soil, the related section will be immediately informed and suitable measures will be systematically carried out.

When water used in manufacturing processes leaked at Takatsuka Plant in January 2009, the plant, Manufacturing Division and Engineering Division worked together to identify the leaked portion and measured the quality of contaminated groundwater there. After that, we have continuously monitored the quality of the contaminated groundwater.



Analysis

#### Controlling PCB: Polychlorinated Biphenyl

At five plants, a total of 1,595 units of transformers, condensers, and stabilizers which contain PCB (polychlorinated biphenyl) are controlled. We also reported to the authorities on the storing condition of PCB according to the Act on Special Measures concerning Promotion of Proper Treatment of PCB Waste which came into effect in July 2001.

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# Social Responsibility

[ Suzuki, For the Benefit of All ]



Our Corporate Social Responsibility is based on "Compliance" through which we desire to establish credibility and build good relations with our customers, business partners, employees, shareholders, investors, local communities, etc. This section introduces some activities in relation to individual Suzuki stakeholders.

With Our Customers »	
« With Our Business Partners »	
« Suzuki Foundation Activities »	
« With Our Employees »	
« Our Shareholders and Investors »	
« With Local Communities »	



## With Our Customers

Listening to the customer's voice, and looking at things from the customer's perspective has allowed us to develop products and provide services that have won the trust and support of our customers. We constantly strive to fulfill their expectations.



## **Customer Relations Office**

Suzuki's Customer Relations Office receives more than 120,000 calls of customer inquiries in one year (based on the data of fiscal 2010).

The Customer Relations Office, as a "window allowing for direct contact with customers," always keeps in mind to put ourselves in our customers' place and to provide quick, correct, and generous actions for various customer inquiries, and constantly makes efforts to improve customer services that assure customer satisfaction.

#### Improving correspondence quality

We cooperate with Suzuki's network all over Japan to provide appropriate supports if local services are required for purchase, maintenance, etc. of our products, as well as we try to prepare tools for assuring quick and correct actions, keeping in mind to use a speaking style such as daily greetings favorable to customers.

#### Improving customer-friendliness

In order to smoothly respond to many customer inquiries and requests, our customer relation service is easily accessible even on nonbusiness days, while organizing the environment applicable to wide varieties of media such as cellular or hard line phones at our toll free phone numbers or our website via e-mails.

#### Improving products and service quality

We recognize that "the voices of customers are very important information to improve the quality and services," and distribute these voices to related departments in order to develop better products and improve manufacturing, quality, sales, and after-sales services.

This important information is collected into a data integration system for efficient information management and posted in our Intranet system, with the personal information carefully protected. Also, we have established a system enabling such information to be promptly provided to the relevant persons in charge depending on the criticality of the information.

For providing more reliable and convenient services, the Customer Relations Office will continuously make efforts for further improvement of operations.





#### Trends in Access to the Customer Relations Office



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#### 02 CS (Customer Satisfaction) Activities



## **CS (Customer Satisfaction) Activities**

#### Launch of Fans Net Declaration

For the purpose of creating as many fans of Suzuki as possible, the Fans Net Declaration activity has been conducted by our domestic automobile dealers since 2008. This program intends to make each staff member of dealers, who is making face-to-face customer contact, think of what to do for customers and do it. At each activity base, Fans Net meetings are periodically held by selected promotion committee members.

For example, equipment proposed at a Fans Net meeting for better customer service include a "large monitor system" which helps customers easily understand the features of products. Also, customer-friendly services,

attractive events, and better attitudes toward taking care of customers (through telephone or daily conversations) are discussed. Moreover, they are making efforts to establish close relations with customers by providing better after-sale services with the use of the "customer information system".

A placard behavioral policy indicating what we should do for customers is stuck up in each show room so that customers can also see it. This policy was established through discussions at the nationwide Fans Net promotion committee meetings under the theme of "How to create bond with customers".



#### [Management Trainee System for Suzuki Dealers]

We support our domestic privately owned dealerships in creating local community-based networks. The "Management Training for Suzuki Dealers" program in particular, which was launched in 1979, intends to train successors to privately owned dealers of Suzuki products at a Suzuki's sales company for a certain period of time. They will work as employees of the sales company, where Suzuki assists them to learn both sales and technical skills necessary for future dealer operations and to acquire various licenses. This program contributes to high quality customer services by dealers, not only creating stronger ties between the Suzuki Group and privately owned dealerships, but also providing greater reliability to customers.







Our line of electric wheelchairs and welfare vehicles are designed to meet the purpose and needs of seniors and the disabled. We will actively develop new vehicles, taking into consideration users and driving conditions, etc., and contribution to society.

#### Electric Wheelchairs\*1

We have been producing electric wheelchairs since 1974 to provide seniors and disabled persons with greater mobility.

#### Types

Two types : Senior Car and Motor Chair

Senior Car

The electric wheelchair equipped with a user-controlling steering wheel began to be sold in 1985. This electric wheelchair is designed to enable senior citizens to easily go out. It is capable of moving at adjustable speeds ranging from 2 km/h to 6 km/h.



#### **Town Cart**

Introduced in 2005 on the market, the compact type of the senior car, "Town Cart", is designed to allow the user to travel in public facilities, housing complexes, shopping malls and metropolitan areas. It is capable of moving at adjustable speeds ranging from 1 km/h to 6 km/h. With the turning radius of 1.1 meters, it can provide small turns.

It is permitted to be used in the Tokaido, Sanyo, and Khushu Shinkansen N700 bullet trains between Tokyo and Kagoshima Chuo stations. (A specific preliminary procedure is required.)



### Topics

### Topics

Suzuki Senior Car has acquired JIS T 9208:2009, the new standard that considers safety and convenience of the steering wheel-type electric wheelchair. In this standard, the product performance is shown in three levels by the number of stars ( $\bigstar$ ) so that users can select and use products appropriate for their usage style. Suzuki Senior Car "ET4D" and "ET4E" acquire the permission to display three stars for "turning stability" and "capability for getting over steps," and one star for "rotation performance." In addition, the city-type Senior Car "Town Cart" acquires the permission to display three stars for all of these categories.

#### Motor Chair

This is a standard user-controlling type electric wheelchair, which began to be sold in 1974.

Specially designed for the persons with impairment, this electric wheelchair is controlled by means of a joystick for direction and speed and is propelled by the two rear wheels, which enables 360-degree turning without moving back and forth.

Since it can be used both indoors and outdoors, it expands the user's field of activities.



\*1 Electric Wheelchairs (Suzuki Senior Car and Motor Chair) are regarded as pedestrian traffic. A driver's license is not needed.



#### Safe Driving Training Program "For Preventing Accidents"

In order for people to enjoy using our electric wheelchair in a safe manner, Suzuki is making efforts to promote better understanding of operation method by conducting faceto-face sales through full-time sales persons and showing potential customers how to operate an actual wheelchair. Furthermore, we conduct the "Suzuki Electric Wheelchair Safe Driving Program," which is a training session for the people who are currently using our electric wheelchair, working in conjunction with local police departments, traffic safety committee, etc. At the same time, we are making efforts to foster trainers for that program.

We try to improve the trainee's awareness of traffic safety and prevention of traffic accidents etc. through seminars and practical training.



#### Electric Wheelchair Association Safety Activities

The Electric Wheelchair Safety Promotion Association was established by manufacturers and dealers to promote safe and proper use of electric wheelchairs for the disabled and senior citizens. Program workshops contribute to smoother and safer traffic flow and help putting the electric wheelchairs to practical use. As a member of the association, and as an organizer, Suzuki works with authorities and other related groups to educate the public on the safe use of these devices, and create a society in which wheelchairs can be used safely.

#### Electric Wheelchair Safety Instruction Commendation System

Sponsored by the Traffic Bureau of the National Police Agency, the Electric Wheelchair Safety Instruction Commendation System promotes traffic safety public education and recognizes and commends concerned parties that take an active role in the prevention of wheelchair related traffic accidents. Suzuki take an active part in this commendation system as an organizer of the Electric Wheelchair Safety Promotion Association.



## Welfare Vehicles ("With" Series)

Sales of our "With" series welfare vehicles began in 1996. These vehicles are designed to provide seniors and the disabled with greater ease of entry and exit of the vehicle. At present, four different models and two types, "Courtesy Type" and "Lifting Seat Type" are available. We are working to develop a lineup of vehicles that accommodate specific needs and situations.



#### Wheelchair Courtesy Car

Wheelchair courtesy cars make it easy for persons requiring special care to get into and out of the rear of the vehicle while seated in the wheelchair. The lowfloor vehicle allows the care personnel to easily support the passengers who require special care during getting on and off. This vehicle can accommodate either a manual or electric wheelchair. The Solio, Wagon R and Every Wagon can be fitted with the lifting passenger seat.



#### Lifting Seat Type Vehicle

This type of vehicle enables the passenger seat for the person requiring nursing care to be moved up, rotated and moved down by remote control.

Since the seat can be brought into a position that makes it easy for the person requiring nursing care to get in and out of, the stress on the assistant is reduced. The Wagon R can be equipped with the lifting passenger seat.





## **Efforts for Safety Assurance**

Regarding the development and employment of safety assurance technologies as the most important subject to ensure that all of pedestrians, automobile drivers, and motorcycle riders can safely live in the mobility society, Suzuki continuously improves the vehicle safety.

Safety assurance technologies incorporated in Suzuki's vehicles include Active Safety Technologies that are designed to prevent accidents, such as ABS (Antilock Brake System), ESP<sup>®</sup>(Electronic Stability Program), and brake assist system; and Passive Safety Technologies that are designed to minimize the damage in case of accidents, such as TECT (total effective control technology including a lightweight shockabsorbing body for relieving pedestrian's damage), SRS air-bags, and head impact absorbing systems. In addition, as a member of community and society, Suzuki will continue to participate in traffic safety campaigns and conduct the driving safety guidance activities.

\* ESP is a trademark registered by Daimler AG.



Photo: An image of airbag deployment



Knee airbag



**Activities for Motorcycles** 

#### Activities on safety and crime-prevention in cooperation with motorcycle industry

As a member of Japan Motorcycle Safety Association, Suzuki sends some instructors to various motorcycle safe riding schools and holds safe driving seminars such as "Good Rider Meeting," in cooperation with Motorcycle Safe Riding Promotion Committee. Also, we are promoting the "Good Rider Anti-theft Registration" activity for registration of motorcycles to prevent theft.

We cooperate for the promotion of "Motorcycle Safe Riding Trainer Training Session" and "Centralized Training Workshop" organized by JTSA (Japan Traffic Safety Association) by sending instructors. In addition, we are also involved in the annual "National Motorcycle Safe Riding Competition" organized by JTSA by sending judges and motorcycles for the competition in order to widely enlighten safe riding of motorcycles.

On August 19, determined as "the Day of Motorcycle" according to the way of reading "819" in Japanese, we hold events for appealing enjoyment of riding motorcycles and traffic safety in cooperation with motorcycle industry such as JAMA.



#### ABS Test-Ride Event

Suzuki collaborates with designated driver's schools etc. all over Japan and holds an "ABS-equipped motorcycle test-ride" for promotion of ABS-equipped motorcycles. In 2010, more than 4,000 customers experienced the test-ride for activation of ABS at 103 event locations and promoted the safety of ABS-equipped vehicles.

We are planning to have "ABS-equipped motorcycle testride" all over Japan also in 2011 to continue promotion of ABS of motorcycles.



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#### Suzuki Safety School

Since fiscal 2008, we hold Suzuki Safety School four times a year at the motorcycle school area in Ryuyo Proving Ground to teach users of Suzuki motorcycles how to enjoy riding safely.

We will hold this school also in fiscal 2011 as a seminar to learn with fun, providing not only such a basic motions as how to ride, turn and stop, but also advanced courses including hazard anticipation, riding with ABS, and riding on highways.



#### Cooperation with "Hamamatsu, the hometown of the Motorcycle"

"Hamamatsu, the hometown of the Motorcycle" is an event to spread information, attractions, and the culture of Hamamatsu, where the domestic motorcycle industry was born, nationwide.

In 2010, the number of visitors reached 31,000, and this is now one of the biggest events having 30,000 or more visitors for five consecutive years.

Suzuki is contributing to foster personnel that adore motorcycle and take the lead in monozukuri (manufacturing know-how) in new generation, and to create the town where motorcycle lovers get together through touring project and industrial tourism by cooperating in this event.



#### In-House Safe Driving Seminars

Environmental

Responsibility

As a manufacturer and seller of motorcycles, we regularly hold "motorcycle driving safety seminars" for our new employees, motorcycle commuters, and employees of related companies and distributors.

In fiscal 2010, 6 seminars were conducted for 80 participants including new employees who have just graduated from high schools or universities, motorcycle commuters, and employees of distributors.

We will continue to conduct such seminars to train them to improve their safe riding awareness, basic motorcycle operation, and riding manner, as well as to follow the traffic rules, as employees working for motorcycle companies, who must be the role models for other riders.



#### Sunday SRF in Ryuyo Off-Road Seminar

To promote off-road motor sports, a technical riding school for a broad range of motocross riders, from beginners to experienced riders, who purchased Suzuki's competition model "RM series" motorcycles, is held seven to ten times a year at the Ryuyo Off-Road Course.

A rider with International A License is invited as an instructor to provide one-on-one coaching session.

We had the school seven times in 2010 and 214 participants in total.

Many Suzuki customers have taken part in this event and learned basic and high-level motocross riding techniques. This event will be held on a regular basis.



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## With Our Business Partners

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**Philosophy and CSR** 

We feel that the highest priority must be placed on our mission statement "Develop products of superior value by focusing on the customer" when contributing to society. And in creating products of value, it is our belief that the procurement section's role is to work in mutual cooperation with our business partners so that both parties may prosper. We select our business partners through an impartial procedure based on quality, cost, deadline delivery, and technical development capabilities. And we have an open door policy, which offers the chance of teaming up with Suzuki regardless of size or track record.



In creating trusting relationships with our business partners we hope to build sustainable relationships. And because we feel that mutual communication is an important part of this, we promote the sharing of ideas not only with the top management but also among middle management and project heads, etc.



## **Global Procurement**

We are working to develop stronger global procurement activities by working with global manufacturing bases. Procurement activities in the past were mainly focused on individual bases, but we have shifted to a more global approach to obtain the most suitable parts at competitive prices. This benefits not only Suzuki, but also our business partners who benefit with volume order stability, and also give way to the accumulation of technology. By sharing these merits we can build more confident relationships.



## **Business Continuity Plan**

In addition to earthquake-proof reinforcing of individual office buildings, we have started compilation of a business continuity plan (BCP).

We also recognize our responsibility to local communities, our business partners and customers for being prepared for large-scale disasters, including earthquakes, and recommend disaster measures such as quakeproofing to our partners located in areas that are likely to experience heavy damage. We are also prepared to aid our business partners in their recovery if they should fall victim to such disaster.



## **Suzuki Foundation Activities**

The Suzuki Foundation authorized as a public interest incorporated foundation

Supporting scientific and technological research through the Suzuki Foundation authorized as a public interest incorporated foundation since 1980.

## Policy

Coupled with today's worsening problems with energy, global warming, etc., the need for automobiles that save energy and reduce environmental loads is growing. Accordingly, the compact car industry is at the stage of further progress by satisfying such need of the time. In such a situation, we believe that the compact car makers must make more efforts to quickly respond to the public need. For that purpose, further development of the related mechanical industries and cultivation of engineers are very important. The Suzuki Foundation was established with collaboration from Ministry of Economy, Trade and Industry and other various organizations to continuously support and finance those mechanical industries related to compact cars for promoting technological development and attracting young people to this industry. (The Suzuki Foundation was established in 1980, commemorating the 60th anniversary of Suzuki's founding, with the funds deposited with affiliated companies, and made new start as a public interest incorporated foundation on April 1, 2011.)

### Foundation Activities

**N1** 

#### **①Grants for Basic and Original Project**

The Suzuki Foundation offers grants for basic and creative projects related to environmental, information, control, material and medical technologies, which are the framework of social development. We have contributed to the basic research for development of technologies by providing grants totaling 1,092,430,000 yen to 791 researchers (as of April 1, 2011) at universities, junior colleges, and research institutes.



### **②Grants for Theme-Based Project Assignments**

We also finance projects that concentrate the combined intellect of researchers in finding solutions of high priority concerns such as global environmental conservation and natural energy resource saving. Since the start of our financial aid in 2003, we have financed 12 projects including the "Development of emission gas purification system for mini and compact vehicles" and amounting to 94,360,000 yen to date (as of April 1, 2011).

## ③Grants for promotion of study results and for overseas training of researchers

The foundation partially provides grants to symposiums and conferences held in Japan and other countries for the purpose of further development of findings from basic or creative scientific researches. So far (as of April 1, 2011), it has provided grants totaling 121,000,000 yen for 322 symposiums and conferences.



#### **(4)**Research Grants for Projects by Foreign Researchers

Based on the researchers exchange agreement between Shizuoka University and Budapest University of Technology and Economics (Hungary), the two universities tied up with the Suzuki Foundation in 1999 and have been working on this project. We have funded nine researchers who came from Budapest University of Technology and Economics. The projects they have been working on include those for international collaborative research development.

#### **5**Supporting Inter Academia

For international exchange activity, Shizuoka University and eight European universities hold international conferences (Inter Academia) for the purpose of mainly announcing the results from the researches conducted by students and instructors under social programs. Suzuki Foundation also actively supports those activities.

#### **6**Number and amount of grants

### •Number of grants in 2010: 67

- (Accumulated total: 1,144 as of April 1, 2011)
- •Total amount of grants in fiscal 2010: 65,300,000 yen (Accumulated total: 1,328,060,000 yen as of April 1, 2011)

#### **⑦Supporting Public Interest - the Motoo Kimura Evolutionary** Studies Fund

It is our wish to find causes of disease and pursue good health so that we may all live pleasant and plentiful lives. In admiration of the efforts of Motoo Kimura who was nominated for a Nobel Prize for his research in evolutionary studies, the Motoo Kimura Evolutionary Studies Fund was established in December 2004 with the funds from Suzuki. This fund rewards those who have made a great contribution to the genetic science research.



## Suzuki Education and Culture Foundation

Commemorating the 80th anniversary of Suzuki's founding, the Suzuki Education and Culture Foundation was established in 2000 through funds received from the Suzuki Group.

The foundation offers scholarships to high school students living in Shizuoka Prefecture or university students who are graduates of high schools in Shizuoka Prefecture who, due to economic hardship, are unable to continue their studies. We also support sports programs for children and students, and educational activities that contribute to the nurturing of healthy youths.

#### •Gross assets: 1,642,260,000 yen

•Total amount of grants (as of April 1, 2011): 126,900,000 yen •Scholarships (Fiscal 2010): 68 scholarships (20,520,000 yen)



A ceremony of receiving scholarship certificates



## Management Assistance for the Mundo de Alegria School for South Americans

The Mundo de Alegria School located in Oroshi-honmachi, Hamamatsu City is a school for Japanese-South American children. The school was established to accept children who cannot attend Japanese schools due to the language barrier or international schools due to the economic hardship so that they can experience the joys of learning and adjust to the Japanese society.

03

The school was established in February 2003 with private donations, however it was difficult to manage the school privately. Suzuki decided to support the continuance of the school encouraging collaboration from the local industries in Hamamatsu. And about 60 local companies



joined the supportive action. In August 2005, the school became the first domestically incorporated school for the Japanese-South American students, receiving subsidies from the prefectural and municipal governments. With the consistent efforts gradually recognized, the number of supporters and collaborators is increasing. And people from the local industrial community take part as board members (founder, trustee, whip, and councilor) of the school.

We hope to nurture admirable second and third generation Japanese-South American youths living in Hamamatsu City.





## Suzuki Opens Endowment Lectures at University

#### Introduction of Suzuki's Monozukuri (manufacturing know-how) to local students

For the purposes of cultivation of human resources and activation of researches, we give "Suzuki Endowment Lectures" at a local university by sending lecturers from Suzuki. Also, we create an endowed chair to inform students on what are happening in the industrial world.

#### Endowment Lectures

We have been lecturing at Shizuoka University (Engineering Dept.) since 2003 on environmental engineering on engines for the purposes of cultivation of researchers, promotion of learning, and contribution to society.



•Current major research theme:

Investigation of reaction mechanism of catalysts for further reduction of exhaust gas and improvement in friction of sliding parts for improving fuel consumption •Lectures:

Suzuki employees sent as professors and assistant professors

•Term:

9 years from April 2003 to March 2012

We also signed an agreement with Shizuoka University on November 16, 2005, to help advance scientific technologies, academic research and the practical use of related findings, and promote the nurturing of human resources. ("Agreement for Promoting Cooperation in Educational Research between Suzuki Motor Corporation and Shizuoka University")

#### Endowment Lectures

We contribute with endowment lectures that introduce current industrial status and activities for problems at two universities; Shizuoka Sangyo University and Hamamatsu University.

- •Theme : Fiscal 2010 Suzuki's approach to growing into a global company
- •Lectures : Corporate board members or executives depending upon the theme
- •Term : One lecture- 90 minutes, 15 times per year



## With Our Employees

At Suzuki we believe that the foundation of our business activities lies in employees cooperating to manufacture products of value, and communication through which opinions are freely exchanged regardless of rank or division to keep company vitality high. In regard to employee relationships, we strive to create systems and environments that promote development of a group that works in good faith and look to the future rather than rely on past methods. In this we place emphasis on the following points.

①Create a safe and healthy workplace for our employees.
②Create a system that fairly evaluates and supports those who want to take the initiative in advancing their careers.
③Create good and stable relationships between the employer and employees.

## Safety, Health and Traffic Safety Related Activities

#### Safety and Health

Safety and health management are promoted through our basic safety concept.

### **Basic Safety Concept**

•Make safety a priority •All accidents are preventable •Safety is our responsibility

If any accident occurs, it is specified without exception, regardless of seriousness, in a relevant report that is circulated in the company (for horizontal deployment) to prevent recurrence of the same accident or occurrence of similar ones. We will continue to raise employees' safety awareness to sense potential risks, review or revise our safety operation manual, and improve any risk factor in our workplaces.

As the saying goes, "For every accident that causes a major injury, there are 29 accidents that cause minor injuries, 300 accidents that cause no injuries<sup>\*1</sup>".<sup>\*2</sup> In order to prevent accidents from occurring, we need to implement activities that eliminate careless mistakes.

Since 2001, we have relied on risk assessment, which looks at case examples of careless mistakes in order to counter and improve on careless mistakes.

- \*1 A careless mistake is a failing in which an on-the-job error in judgement can lead to injury. This could mean something that causes the worker sudden alarm.
- \*2 Heinrich's Law

#### Heinrich's Law (1:29:300)



#### Health Management

Starting 16 years ago, we require that all employees 40 years and older have medical and dental checkups for early detection and rapid cure of illness. As a follow up to health checks, we regularly carry out health education, nutrition instruction, etc.

We also provide the following programs as measurements for stress and mental health problems, which have been on the rise in recent years.

- •Provide health information on mental health and others through the corporate intranet and seminars to allow employees to perform effective self-care.
- •Provide mental health seminars by external industrial physicians mainly to supervisors and managers in order for them to take care of mental health of workers at each workplace.
- •To make consultation easier, we opened a mental counseling corner by physicartist in our company medical clinic.

#### Traffic Safety

To encourage each and every employee to set an example in their driving that befits that of a member of an automobile and motorcycle manufacturer, we have implemented a number of programs like those described below, that are aimed at preventing traffic accidents that could occur on the job.

- •Create commuting route accident maps
- •Training in traffic carelessness and risk prediction by small group
- Instruction on and strict control of traffic rules not only on public roads, but also within the plant site
- •Traffic safety education at the jurisdictional police stations
- •Individual instruction with driving simulators and proper driving checks
- •Alert employees to traffic safety before long holidays



## Activities for Career Advancement

It is our belief that career advancement through self-development is a source of job satisfaction. For this reason, we offer activities that allow employees to advance depending upon their qualifications or abilities. We pursue the development of human resources by supporting those who wish to challenge and achieve higher goals.

#### Goal Challenge System

Rather than to set easy goals that are soon achieved, we feel that setting high goals is an excellent way to improve one's self. Our Goal Challenge System allows employees to set and achieve high standards. Every half period, employees confer with their supervisors and set specific goals to be achieved over the course of six months, and everyone in the company works to achieve their goal. The implementation of this system has produced the following results:

①Specifying goals has improved motivation.

<sup>(2)</sup>Supervisors can appropriately appraise the individual's achievements and offer specific guidance and development.

Suzuki's personnel system places greater emphasis on occupational ability than seniority. Intended to develop professional human resources, it is based on an objective and fair personnel evaluation system according to abilities, roles, and responsibilities of individual employees. The performance-based personnel system and the goal setting system motivate employees' intentions to step up each rung of the corporate ladder.

#### Self-Actualization Systems

We are pursuing a standard that can be used to accurately evaluate employee performance and maximize their abilities. A self-actualization system has been implemented as a support system that lets employees fully exercise their abilities in jobs that they choose to do and that allows employees to request transfers.



## Secure and Comfortable Working Environment

We are pursuing a working environment where employees who bear business activities can maximize their motivations and abilities in a mentally and physically fulfilling condition. Various assistant systems are employed to help employees work actively through positive adaptation as a company to diversify the working environment. Also, a comfortable working environment will improve employee's motivation to increase productivity.

#### Child-Care Shortening Hours System

03

We have adopted a system to shorten daily working hours based on self application by employees who need child-care for pre-elementary school children.

The employees applying for this system may be exempted from overtime work in principle. Also, they can use the company's car parking area, allowing them to use cars for easy pick-up of their children.

This system enabling employees with small children to choose from various working styles creates a working environment where employees with motivation and ability can keep working. Also, the short-time working system enhances awareness of child-care support in the entire workplace and promotes Strong Working Atmosphere which can support those short-time workers.

#### Childcare, Caring of an Aged Family Member System

We provide baby breaks and breaks for caring for an aged family member to employees, regardless of gender, who, due to personal reasons such as child-care, nursing care, etc., have difficulty in working even though they have the will and ability to work. This system is used by many employees.

#### Re-employment System

Since July 1991, far earlier than the revision of the Law concerning Stabilization of Employment of the Older Persons in April 2006, we have adopted a re-employment system for hiring people after the mandatory retirement age of 60 years old. This system offers employment to the people who are willing and able to work after retirement age of 60 years old. Now, they are using their abundant experience and acquired skills in each working place.

As part of our approach to work sharing system, in which work is shared by several workers, we introduced a shorttime working system for the reemployed people in June 2009.

#### Employees, etc. Consultation Service

Since 2002, we have rolled out the "Employees Consultation Service" throughout the company as part of CSR Management System. In April 2007, the coverage of this service was expanded to include not only Suzuki Motor Corporation's regular employees, but also all persons working in the business locations (including nonregular, apprentice, probationary, dispatched, temporary, part time, seasonal, and seconded workers and Suzuki's employees working in other companies' locations) in consideration of the actual circumstance. In addition, the consultation service is also available to employees of other Suzuki group companies. It provides a broad range of consultation from trouble in the workplace, such as sexual harassment or power abuse, to questions, problems, improvements related to their individual jobs via e-mail or phone service. In addition, consultation with an outside lawyer is possible to maintain fairness. Quick and fair solutions to individual problems can maintain a comfortable working environment. Also, it is ensured that any report or consultation request will not cause any disadvantage to the reporting person.

In addition to the consultation service, an "Improvement Proposal Box" is located at worksite cafeterias and offices, allowing every employee to easily make a proposal on work improvement or request for consultation.

#### Acquiring the accreditation mark "KURUMIN" based on the Law for Measures to Support the Development of the Next-Generation from the Ministry of Health, Labor and Welfare

Suzuki was accredited by the Ministry of Health, Labor and Welfare according to the Law for Measures to Support the Development of the Next-Generation as a company that supports child care. The Law for Measures to Support the Development of the Next-Generation was established to oblige companies that have 101 or more full-time employees to prepare and submit the action plan to build employment environments that support balancing of childbirth/child care and work, etc. in order to create the

society with health upbringing of children who bear the nextgeneration society. Suzuki will further promote building of working environments where our employees can work comfortably and keep balancing the work and child care.



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## **04 In-House Education System**



## In-House Education System

To promote continuous development, based on the policy of our mission statement, we have installed an in-house education system to improve employee capabilities, develop talent that can adapt to environmental changes.

#### Group Training (Off the Job Training (Off- JT))

Group Training, also known as "Off the Job Training" consists of seminars given in our in-house school, training center, etc. and out of company training seminars, etc. Seminars are generally given according to management hierarchy\* and cover basic knowledge, technology and skills necessary to pursue tasks in accordance with the job position.

\* Management hierarchy: Seminars that are carried out according to corporate rank such as General Manager/Assistant General Manager Seminars, Section Chief Seminars, Chief Seminars, Foreman Seminars, Section Leader Seminars, etc.

#### Number of Seminar Participants (Overall Suzuki Group)

Fiscal 2002	13.932 persons
Fiscal 2003	17,699 persons
Fiscal 2004	14,430 persons
Fiscal 2005	14,518 persons
Fiscal 2006	15,470 persons
Fiscal 2007	18,600 persons
Fiscal 2008	19,000 persons
Fiscal 2009	18,000 persons
Fiscal 2010	17.000 persons



#### Suzuki In-House Training System

Training for Individual Occupational Abilities –



#### In-House Training (On the Job Training (OJT))

In-house training refers to supervisors or senior employees teaching junior employees through the course of daily work. What is taught varies from employee to employee and has a direct effect on their work. For this reason, it is considered the first step in the education process, and is regarded as the most important aspect of our in-house training system. The professional education that is required in each section within the company is mainly given through in-house training.

### Voluntary Skill Development

### Self-Development

Scholarships are available to support those employees who actively work to improve vocational skills on their own through correspondence courses or language seminars.

Providing our employees with support so that our employees can gain further knowledge and skills, we provide support so that they can attend seminars held by groups outside of the company.

#### **Small Group Activities**

We also promote such in-house group activities as proposed activities, quality control circles, etc., in order to create a more cheerful work environment or increase self-development.





## **Employee Relations**

Through mutual confidence, we have developed a good relationship with the Suzuki Labor Union, which represents Suzuki Employees.

Among the labor union's goals are stable employment and maintaining and improvement of work conditions. In order to meet these conditions, stable development of the company is required. When negotiating salaries, bonuses, labor hours, etc., our opinions sometimes differ, however we do share the same basic vector, which aims to stable development of the company.

#### Employee Communication

We arrange frequent labor-management consultations to ensure that employee ideas are reflected in all of our departments, such as research and development, design, manufacturing, sales, etc.

In addition to discussing requirements (salaries, bonuses, labor hours, etc.) we hold monthly discussions that regularly cover a wide range of issues such as business policies, production planning, business hours, welfare, safety and health, etc., and serious by exchange ideas on what Suzuki and the labor union can do to deliver quality products to the customer.

#### Building a Stable Relationship with the Labor Union in the Suzuki Group

Suzuki consists of 141 group companies (manufacturers, non-manufacturers, sales companies) located domestically and abroad. It is our hope that those 141 member companies are individually trusted by the local residents, society, and customers.

We invite union officials and labor union leaders of our overseas companies to realize the importance of confident labor union relationships, the importance of communication, the need for a fair, equal and clear personnel system, etc. We also work with the labor union to promote global personnel exchanges both domestically and abroad, and we strive to establish a work climate which allows our 50,000 employees in 141 companies to enjoy working with a highly creative and stable labormanagement relationship.



### Deployment of an Affiliate "Suzuki Support"

Suzuki Support Co., Ltd, a special affiliate company established in February 2005, has been conducting business activities for six years. As of the end of June 2011, 46 employees including those having severe intellectual disabilities are brightly and vigorously performing janitorial service and documents pickup and delivery service at Suzuki's main office, employee dormitories and related facilities.

Their sincere and cheerful attitude toward work greatly encourages all the people in Suzuki.

In line with the corporate philosophy, which is intended to make a contribution to society, Suzuki Support will further provide job assistance for people with disabilities in order for them to feel happy through working and to build their experience through social participation.

#### [Summary of Suzuki Support]

- 1. Company Name Suzuki Support Corporation
- 2. Capital
- 10,000,000 yen 3. Capital Investor Suzuki Motor Corporation
- 4. Location 300 Takatsuka-cho, Minami-ku, Hamamatsu-shi, Shizuoka
- 5. Establishment
- 6. Business category

8. Number of employees

- 7. Representative
  - Hiroyasu Uchida, President (also Managing Executive Officer, Administration Executive General Manager, Suzuki Motor Corp.) 61 (46 employees with disabilities)



February 2005 Janitorial services, etc.



## **Our Shareholders and Investors**



## Improving Corporate Value

Suzuki has made the best efforts to improve the corporate value to live up to shareholders' expectations.

Unfortunately, however, our business environments severely changed due to the worldwide financial crisis since the Lehman Shock, further influences of appreciation of yen, the Great East Japan Earthquake, etc. and we are in much more difficult situation.

In order to come out of such a crisis, we need to unite our efforts under the slogans "Rack our brains and sweat to overcome the difficulty of the situation" and "Start refresh all over to overcome the time of great transformation." In concrete terms, we have newly established the "Management Planning Committee" where we collect critical management issues and discuss pending problems, and reviewed the system and organization to identify management concerns and make decisions more quickly. We will also continue to build the system that produces profits even though sales decrease by implementing the "In-house Cost Cutting Activities" that every single employee tries to reduce various expenses.





#### Net Asset per Share and Stock Price at the year end

**Special Topics Philosophy and CSR** 

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#### **02 For Our Shareholders and Investors**

## For Our Shareholders and Investors

Suzuki's basic profit sharing policy is focused on maintaining a continuous and stable dividend. At the same time, however, from a medium and long-term perspective, we always consider how to improve business performance, dividend payout ratio, and internal reserves as a basis for enhancement of our corporate structure to prepare to expand our business operations in the future.

The Suzuki Group's business performance largely depends on overseas production plants, mainly in developing countries, and is subject to exchange rate fluctuations. Therefore, for further stable growth of Suzuki Group, it is important to enhance corporate strength and prepare for any contingency.

As for the current fiscal year, although we were in difficult situations due to influences by appreciation of yen and operation stoppage after the earthquake in March, we have successfully recorded a profit exceeding the previous fiscal year, resulting from thorough expenditure cut.

The business environment still shows a grim outlook, but we have set the ordinary dividend to 13 yen per share and the year-end dividend to 7 yen per share. The ordinary dividend was increased by one yen per share compared to the previous fiscal year.

For the next fiscal year, we also plan to set the same dividend as the current one: 13 yen per share (including mid-term dividend of 6 yen).

As mentioned above, we will determine the ordinary dividend by considering the fiscal year's business performance.

Our company contract stipulates that interim dividend is available.







As a token of appreciation for the shareholders' continuous support for Suzuki and in hope of further patronage of Suzuki's products, we offer a shareholder benefit program.

This program was established in December 2005 in commemoration of winning two awards: "RJC Car of The Year" and "2005-2006 Japanese Car of The Year"

("Most Fun" Prize) for the Suzuki's world-class vehicle "Swift." Also in December 2005, we started to sell our own 5,000,000 shares in order to expand the number of individual shareholders of Suzuki fans.

The number of shareholders has been changing as shown below.



#### Eligible shareholder

Shareholders who hold a minimum unit of shares (100 shares) as of March 31 every year.

#### Gift content

The gift consists of a set of acacia honey, which is a specialty product of Hungary where our European production base MAGYAR SUZUKI CORPORATION is located, and a pack of German-made rock salt that contains lots of well-balanced natural mineral. Both of them are imported and sold by Suzuki Group.



A gift set of Hungarian acacia honey and rock salt



We address disclosure of information to all of our shareholders and investors based on the spirit of our charter "Fully disclose accurate and fair information to the public and build a proper relationship with society".

#### (1) IR materials on Homepage

In particular, we provide investor relations information such as briefings, corporate information and data, which are required in making investment decisions, through the Suzuki homepage (Japanese : <u>http://www.suzuki.co.jp/ir/index.html</u> English : http://www.globalsuzuki.com/corp\_info/index.html).



\* IR (investor relations) means activities of a company to offer the company information necessary for investment for shareholders and investors in a timely, fair and continuous manner.


#### (2) Open periodical seminar for analysts and corporate investors

We hold an analyst seminar by the Chief Executive Officer every guarter.

In addition, investors' conference and other presentation meetings, individual meetings (at the request of analysts), new model announcement shows (to invite analysts), and plant tour events for analysts are held as well.

#### (3) Set-up of department for IR

Departments in charge of IR are Tokyo Branch Office (PR Sect.), Management Planning Office (PR Dept.), and Finance Dept. (IR Planning Sect).

#### (4) IR event for individuals

Since the 142nd annual meeting of shareholders held on June 27, 2008, we have made it a rule to invite shareholders to Suzuki Plaza, after the meeting, for better understanding of Suzuki.

The Suzuki Plaza is a facility, which has been open to the public since April 2009, for showing the history of Suzuki, introducing its worldwide business activities, and comprehensibly explaining the automobile production process under the theme of Suzuki's monozukuri (manufacturing know-how).



Outside view of Suzuki Plaza



Visit to the Suzuki Plaza



## **With Local Communities**



#### Improving Goodwill and Manners

In order to encourage employees to improve their manners, aggressively participate in volunteer activities, and increase awareness of environmental preservation, Suzuki takes part in a program called "Hamamatsu City Road and River Preservation Foster Group Program"\*. Since we became the foster group (responsible organization) for the Takatsuka underground passage and the roads in its vicinity in September 2004, we have carried out cleanup



#### Participation and cooperation in Lake Hamana Environmental Network

The Lake Hamana Environmental Network was established in March 2005 for the purpose of environmental conservation activities by local resident groups, various bodies, and business groups that are interested in or have connections to Lake Hamana. 67 groups and bodies participate and cooperate in this Network as of March 2011, and this is the largest "place for gathering" for environmental conservation of Lake Hamana.

As part of our employees' volunteer activities, Suzuki has also participated in this Network since its foundation.

In fiscal 2010, we participated in "Lake Hamana Eco-Kids Experimental Learning Activity" which is a kind of environmental learning for children who will be major players in the next generation, "Lake Hamana Eco-



#### Lake Hamana Eco-Kids Experiential Learning Activity

"Learning Efforts for Environmental Conservation of Lake Inohana"

Visit to water quality improvement activities and observation of varieties of creatures.

This was a valuable day in summer vacation when both children and parents learn together.

activities in those areas. In fiscal 2010, the cleanup activities were performed 16 times, with a total of 938 employees collecting burnable and unburnable litter, etc., which filled up 10 mini-trucks.

\* This program allows individual groups to determine the areas they will take care of and the activities they will perform (such as road cleanup) as foster groups (responsible organizations). And the foster group application is submitted to the mayor.



Workshop" where various environmental conservation activities are mutually introduced and reviewed, and "Environment Forum" where specialists of different fields were invited.

18 families (58 persons) of our employees participated in these activities througout a year and learned the history, living cultures, and natural enviroment around Lake Hamana.

Through lectures and experiential learning, we will continue to have many people re-recognize the state of the brackish water lake, Lake Hamana, which is a valuable asset for the community, and will further promote the environmental preservation activities.



Visit and explanation of back stage of Lake Hamana Experience Station "Uotto"

Lecture "Changes in Fishing Industry and Creatures in Lake Hamana"

By Manager of Lake Hamana Branch, Shizuoka Prefectural Research Institute of Fishery

We could experience the field trip that we cannot normally see and listen to.





#### Donations to Qinghai Province of China, Pakistan, and Amami Oshima of Kagoshima Prefecture

We sent donations as listed on the right for supporting the area in China struck by the Yushu Earthquake (Yushu Tibetan Autonomous Prefecture) on April 14, 2010, the area in Pakistan struck by heavy rain since the end of July 2010, and Amami Oshima in Kagoshima Prefecture struck by heavy rain since October 20, 2010.

Also, our local subsidiary PAK SUZUKI MOTOR CO., LTD. cooperated with sales dealers and component manufactures and donated 10 million rupees in total (approximately 10 million yen) to the Government of Pakistan, such as 25 trucks for transporting relief supplies to disaster struck areas.

#### **Details of donations**

	Details of donations
Donation to China	5 million yen via Japanese Red Cross Society
Donation to Pakistan	5 million yen via Japanese Red Cross Society
Donation to Amami Oshima of Kagoshima Prefecture	One million yen via Japanese Red Cross Society

## Promoting Sports and Education (supporting the main purport)

The Suzuki Hamamatsu Athlete Club develops top athletes who are challenging London Olympic Games, as well as provides coaching to children in order to develop future Olympic athletes.

#### Athletic Sports Class held in 2010 - 2011





**Special Topics Philosophy and CSR** 

Corporate

**Environmental** Responsibility

Social Responsibility

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#### 04 Contribution to Local Community



#### Christmas Festival 2010 at Suzuki Plaza

We decorated the inside of the museum for Christmas and held the Christmas event for children mainly from December 23 to 25. This was the first long-term event for the museum, but we had more than 1,000 visitors for three days and they enjoyed the event we planned elaborately. Our main programs in this event included painting on a



SUZUKI

real vehicle, hand-made Christmas ornament, presents from Santa Clause to children, etc. Children experienced the only once-a-year "time like a dream".



Painting on a real vehicle



Presents from Santa Clause to children

Corporate

Philosophy and CSR

05 Activities at Each Plant



#### Activities at Each Plant

## Activities at the Development Promotion Department of CSR Development Division (Yokohama R&D Center)

Again in this fiscal year, some engineers were sent from the Suzuki Yokohama R&D Center for a lecture aimed at elementary and junior high school students in line with a program called "Dr. Tsuzuki Club School" sponsored by the Tsuzuki Ward Administration Promotion Section (Yokohama City).

In fiscal 2010, a lecture under the theme of "Robots" was provided to 201 students of three elementary and two junior high schools, five schools in total. With the effective use of a personal computer, projector, comprehensible texts, charts, graphs, pictures, animations, real robot samples, publications, etc., the presentation was made in an easily understood manner.

Robots demonstrated there include H8 microcomputerequipped master & slave type robots, a line tracing robot that follows a line with its infrared sensor, PIC microcomputer-based LED display unit, and radiocontrolled electric wheelchair soccer robots (4 units). While touching those actually moving state-of-the-art robots in front of their eyes, the students were carefully listening to the instructor's explanation.

During the question and answer session after the lecture, the students asked questions and told us of their dreams, wishes and opinions concerning robots. Also, we sometimes receive thank-you notes and reports from the students and their teachers. The opinions and impressions we receive from those we came in contact with through such activities are a source of inspiration and encouragement for the next lecture.



<Robot samples actually demonstrated at the lecture>

#### Activity Ryuyo Proving Ground

Environmental

Responsibility

#### Opening Ryuyo Proving Grounds to the Public for Sports Competitions

Social

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In reply to a request by local sports groups and school representatives, we opened Ryuyo Proving Ground to public sports competitions.

The Ryuyo Proving Ground is open to all, from adults to elementary and junior high school students. Recently the "Sunrise Iwata in Ryuyo" (triathlon), the "Friendly Duathlon in Ryuyo", the "Shizuoka Prefecture Seibu Junior High School Marathon Relay Race", and more have become regular events. In this way we support local sports organizations and contribute to nurturing healthy young people.



#### Traffic Safety Guidance around Marine Technical Center

The Marine Technical Center conducts traffic safety guidance activities at the entrance of the Center and intersections near the Center in the morning on working days during the period of the spring/fall nation-wide traffic safety campaigns and the summer/year-end prefectural traffic safety campaign. We hope that both our employees and neighbors of the Center become more aware of traffic safety through these activities.



December 2010: Year-end prefectural traffic safety campaign



**06 Efforts by Overseas Companies** 

**Special Topics Philosophy and CSR** 

Corporate

Environmental Responsibility

Social Responsibility

Data



#### **Efforts by Overseas Companies**

#### India

#### Initiatives for Road Safety

Maruti Suzuki India Limited (MSIL) regards road safety as the most important item in the CSR program and is making great efforts for that purpose.

Four operation hubs for the Institutes of Driving Training and Research (IDTR) and 166 Maruti Driving Schools (MDS), of which 83 have been added in 2010, are the center of activity. MSIL's activities for IDTR and MDS are conducted under individual agreements with state governments and dealers, respectively. Developing energetic activities throughout India,

MSIL has trained 850,000 people in safe driving since inception of the first IDTR in 2000. Also in fiscal 2010, as part of a new activity, MSIL has started a training program for light vehicle drivers. With the help of the Industrial Training Institute (ITI) in Gujarat, MSIL has opened courses for more than 2,000 students. In addition to driving technique, MSIL is also operating courses such as English and interpersonal skills.

Since it launched "National Road Safety Mission" program in December 2008, MSIL has been carrying out the training activity, aiming to provide safe driving training to 500,000 people within three years. In fiscal 2010, the number of trainees reached 358,000 persons. In addition, MSIL launched a program in fiscal 2010 to enhance

school children's awareness of road safety, and provided about 21,000 pupils with opportunities for elevating their awareness of traffic safety. Also, a short-term training program for drivers to boost their awareness of safe driving has been conducted throughout the nation through MDS and ITDS, to more than 55,000 drivers including taxi and three-wheel vehicle drivers. Moreover, MSIL is also conducting retraining for school bus drivers.



#### Vocational Training

In fiscal 2009, MSIL established a new Industrial Training Institute (ITI) for women in Gurgaon, Haryana. MSIL intends to develop this ITI into Centre of Excellence for Apparels. Coupled with the introduction of four government-run ITIs into Haryana in 2006, MSIL jointly launched the ITI development program with two suppliers.

At the ITI in Gurgaon, a central library has been newly established as a place allowing students to acquire the habit of reading outside of classroom hours. Also, a computer room has been newly added.

ITI students learn about safety, 5Ss, improvement, quality, and driving technique from MSIL's specialists. Students and teachers visit MSIL facilities to pick up on the atmosphere. In order to efficiently teach such complex mechanisms as vehicle brake system and fuel injection system, MSIL has introduced audio-visual aids into ITI. In fiscal 2010, MSIL trained ITI teachers for 180 days and students for 6,124 days on relevant themes in total.

Other than the ITI development program introduced into Haryana, MSIL has also deployed the automobile industry-oriented engineering support into the nationwide private and public ITIs in India. That has made it easy not only to support students to get jobs in the automobile industry, but also to gain skills required at dealers' car repair shops. MSIL supports ITIs by providing them with engines, transmissions and other automobile parts for vocational training. About 500 students have graduated from ITIs and entered employment at vehicle repair shops of dealers.







#### Employee Volunteer Program (e-Parivartan)

This program is designed to encourage MSIL employees to perform volunteer activities for impoverished people on Sundays and holidays. The activities include taking care of children who live in child care facilities, sharing time with elderly people at elder care facilities, and celebrating birthdays, festivals or national events with them.

The number of such care facilities located in Delhi, Gurgaon and Manesar has reached 24, with newly established facilities in fiscal 2010 added. MSIL employees have spent more than 2,800 hours in total on the volunteer activities, supporting children and elderly people.

In addition, employees have donated more than 1,000 (new and used) books as part of One-Week Book Donation Program. Those books were delivered to various care facilities.



#### Initiatives for Community Development

MSIL has selected four villages around its Manesar manufacturing plant for support. Special teams are conducting activities to improve or enhance Education, Employability Training, Health Care, and Infrastructure Development in those villages in cooperation with the local community.

Education

Three nighttime compensatory classes are open to deprived children. In those villages supported, 120 poor children are attending them.

•Employability Training

In fiscal 2010, MSIL trained 50 unemployed youth in those villages to improve their abilities necessary for getting jobs. Up to this day, 134 unemployed young people have been trained in safe driving and 65% of them were employed.

•Health Care

To provide medical treatment or preventive medical care to women, children and elderly people, MSIL periodically conducts medical check-up camps at the supported villages. For school children, MSIL provides special health camps for the purposes of protective vaccination and health care education. In the supported villages, over 9.200 persons used those health camps.

•Infrastructure Development of Education

In fiscal 2010, to create an environment suitable for study and activities of children, a government-run school in Bass village was remodeled with basic equipments such as classrooms and playgrounds.







#### Indonesia



Suzuki Indomobil Motor (SIM) and SIS, together with dealers and employees, made a donation of Rp 500 million in total to victims of the earthquakestricken areas in Pariaman (West Sumatra) and Tasikmalaya (West Java). The donations made to those two areas were used for construction of educational facilities, repair of schools, financial aid for Islamic teachers' association, and introduction of three (APV based) ambulance cars.



To support the rescue work at BALI KUTA Beach, SIS made a donation of beach safety equipment worth Rp 10 million .





#### **Pakistan**

#### **1. Production Activities**

#### Development of eco-friendly products

PSMC produces small components by utilizing other component's scrap generated from the press shop.

To avoid any risk, a separate shaded storage area for CO<sub>2</sub> cylinders have been designated outside the welding shop, away from the spot welding lines, where it was originally stored.



#### Eco-friendly transportation

To realize SMC's policy, PSMC is supplied with 200kg returnable cans instead of 29kg disposable packing for receiving chemicals from local vendors.



#### 2. Educational Support Activities

#### Internship program for students of engineering universities and business management schools

PSMC has conducted the following internship programs for students belonging to NED University, Karachi University, Sir Syed University of Engineering & Technology, St. Patrick's College, Iqra University, and Federal Urdu University.

- 1) June 2010:
- 25-day internship program (17 students) 2) December 2010:
  - 31-day internship program (12 students)

Through the above internship programs, those students learned about automobile manufacturing and assembling processes.



#### Education/Plant tour

VTI (Vocation Training Institute)

VTI student trainings were conducted in various cities of Lahore and Multan regions, resulting in 221 students participating in theory and practical trainings during the year 2010. PSMC supported the trainings with Suzuki colors and logos, as well as parts, tools, and equipments.

Also, VTI instructor training was conducted in Lahore with 35 instructors participating.





#### China

#### Relief funds for earthquake-stricken areas in China

Date	Donator	Stricken area	Receiver	Amount	Photo
May 14, 2008	CHONGQING CHANGAN SUZUKI AUTOMOBILE CO., LTD. (via CHANGAN Group*)	Earthquake- stricken area	Red Cross Society of China	One million yuan	
May 20, 2008	CHONGQING CHANGAN SUZUKI AUTOMOBILE CO., LTD. (All employees)	in Wenchuan Sichuan	Red Cross Society of China	191190.1 yuan	
2008 to 2010	CHONGQING CHANGAN SUZUKI AUTOMOBILE CO., LTD. (Labor union)	Earthquake- stricken area in Chongzhou	Communist Youth League of China (Chongzhou Branch)	Annual donation of 600 yuan to each of 24 children	
April 1/ 2010	CHONGQING CHANGAN SUZUKI AUTOMOBILE CO., LTD. (via CHANGAN Group*)	Earthquake-	Red Cross Society of China	One million yuan	
April 14, 2010	CHONGQING CHANGAN SUZUKI AUTOMOBILE CO., LTD. (Communist Party)	Qinhai & Yushu	Red Cross Society of China	10,410 yuan	AMBEN BOLER

\* The CHANGAN Group is a parent company of the Chinese partner CHONGQING CHANGAN AUTOMOBILE CO (investment ratio of 51%) in the joint venture CHONGQING CHANGAN SUZUKI AUTOMOBILE CO., LTD . Its formal name is CHANGAN AUTOMOTIVE GROUP CO., LTD.

#### **Public-Interest Activities**

Period or date	Donator	Field of activity	Activity
2005 to 2009	CHONGQING CHANGAN SUZUKI AUTOMOBILE CO., LTD. (Sales Block)	MALIU and FENGSHENG elementary schools in Banan District	Annual donation of 600 to 800 yuan to each of 7 students
March 12, 2010	CHONGQING CHANGAN SUZUKI AUTOMOBILE CO., LTD.	Shizushan Memorial Forest in Banan District	Tree planting activity
May 27, 2010	CHONGQING CHANGAN SUZUKI AUTOMOBILE CO., LTD.	Jie Long town Nantuo Elementary School in Banan District	Donation of stationery products, etc to elementary schools in impoverished territory
March 26, 2011	CHONGQING CHANGAN SUZUKI AUTOMOBILE CO., LTD.	綦江县新盛镇正自学校	Donation of stationery products, etc to elementary schools in impoverished territory



Special Topics

Corporate

Philosophy and CSR

06 Efforts by Overseas Companies

Hungary

MSC supports about 30 educational institutes, industrial training schools, technical schools and universities including Géza Fejedelem (local technical school), Esztergom Balassa Bálint (economic school) and Bottyán János (engineering school). In addition, not only such higher education institutions as Széchényi István University in Győr, Budapest University of Technology and Economics, Technical University of Budapest, and Corvinus University of Budapest, but also other automobile industry-related educational institutions also benefit from MSC.

Suzuki Kindergarten: MSC runs a kindergarten to take care of the employees' children.

MSC supports several sport activities in Komarom/Esztergom Counties including Esztergom Rowing. Club, Esztergom Knights Rugby Team, Esztergom Kick Boxing Association, Suzuki youth football squad, Esztergom Aero Club, etc.



MSC supported a swimming competition held at the border between Esztergom and Sturovo (Slovakia) with mixed teams consisting of Hungarian and Slovakian swimmers.

MSC organized the 4th PUSKAS Suzuki Cup to promote football for the youth and lead them to have a dynamic and healthy lifestyle.





Every year MSC provides financial support for several cultural associations such as the Esztergom Summer Music Festival and Summer Theatre.

Social

Responsibility

Environmental

Responsibility



Data

MSC contributed to the "Spring Voice" concert, which is held every year at Hungarian Academy of Music and participated by its excellent graduating students as a joint music event between Hungary and Japan.



MSC exchanges opinions with small/medium size entrepreneurs, suppliers, business partners, and automotive industry players through conferences and roundtable discussions.

MSC accepts students from the local schools for plant tour, as part of the social education program.

MSC employees cooperate with the blood donation organised by Hungarian Red Cross twice a year.

MSC awarded 5 talented students who participated in a drawing/artistic competition with the subject "equal opportunities". The drawings were exhibited countrywide.



#### Supporting the Development of Human Resources in Overseas Manufacturing Companies

Suzuki participates in the Association for Overseas Technical Scholarship (AOTS) program and directly accepts trainees from overseas manufacturing companies providing practical on-the-job training in individual sections of the company.

Effective training in practical techniques and skills for overseas companies that support the manufacturing sector contribute to developing industries in developing countries and promotes mutual understanding and friendship between each other's countries.

#### Companies accepting overseas trainees (fiscal 2010)

Co	ountry	Name of Company			
	India	MARUTI SUZUKI INDIA LIMITED			
Asia	India	SUZUKI powertrain india limited			
hold	Thailand	Suzuki Automobile Manufacturing Co., Ltd.			

•Number of overseas trainees accepted in fiscal 2010: 136 persons

•Accumulated total number of overseas trainees: 21,925 persons (From 1983 to 2010)

• 83 •



Data

# Data



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## **Environment-Related Data of Key New Products**

The environmental data on key new products launched in fiscal 2010 are as follows: The environment-related data of automobiles and motorcycles (vehicle type-specific environmental information) and automobile models that conform to the Law on Promoting Green Purchasing are available on the following website (Japanese only). <Vehicle type-specific environmental information> <u>http://www.suzuki.co.jp/about/csr/environmentalInfo/index.html</u> <Automobile models that conform to the Law on Promoting Green Purchasing> <u>http://www.suzuki.co.jp/about/csr/green/index.html</u>

#### **Automobiles**

		Vehicle Nan	ne	MR Wagon						
Pase	senger	Capacity (Persons)					4			
	Vehicle	е Туре					DBA-MF33S			
		Model		R06A						
		<b>Total Piston Displa</b>	acement (L)				0.658			
tion	gine	Туре		In-line Th	ree-cylinder Er	ngine: DOHC12	V Air-intake/Ex	haust VVT	In-line Thr Engine: DOHC cooler	ee-cylinder 12V VVT Inter- Turbo
ma	臣	Applicable Fuel				Lead-f	ree Regular Ga	asoline		
for		Fuel Supply System	m			Electronical	y Controlled F	uel Injection		
n :		Max. Output (net)[			40(54)/6,500			47(64)	/6,000	
Isic		Max. Torque[N-m(	kgf•m)/rpm]			63(6.4)/4,000			95(9.7	)/3,000
Bâ	Train	Drive System		2WD	4WD	2WD	4WD	2WD	2WD	4WD
	Drive	Transmission				Instrur	nent-panel-sh	ift CVT		
	Vehicle	e Weight (kg)		790	840	810	860	820	830	880
	Remar	ks			· · · · · · · · · · · · · · · · · · ·		1	1		
	ion	10-15 mode	Fuel Efficiency (km/l)	25.5	23.0	25.5	23.0	27.0 <sup>(Note1)</sup>	22.5	21.5
	npt	10 13 11000	CO2 Emission (g/km)	91	101	91	101	86	103	108
	nsur	IC08 Mode	Fuel Efficiency (km/l)	23.0	22.0	23.0	21.0	24.2 <sup>(Note1)</sup>	22.0	20.4
	°S "	5000 mode	CO2 Emission (g/km)	101	106	101	111	96	106	114
_	Fuel	Reference		2010 Fuel Efficiency Standard + 25% Achieved Standard + 20% Achieved						
	SE	Applicable Standard	SU-LEV (Level 75% Lower than 2005 Exhaust Gas Standard)							
	Ğ	Test Mode				JCC	08H+JC08C Mo	de		
tior	nst	Regulation /	C0	1.15						
ma	xha	Certification	NMHC				0.013			
for	ü	Values, etc. (g/km)	NOx	0.013						
e In	Standard	for the Designation of Lo	ow-Emission Vehicles, etc.	Vehicles Co	onforming to th	e Nine-cities S	Standard for th	e Designation	of Low-emissi	on Vehicles
nce	Vehicles	s Subject to Eco-Car Ta	ax Reduction (Note 2)	0	0	0	0	0	0	0
orma	Vehicles Purchas	that Conform to the La ing	w on Promoting Green	0	0	0	0	0	0	0
Perf	Voise	Applicable Standa	rd Level	Cor	nforming to 19	98 Standard	Acceleration N	oise Regulatio	on Value: 76 dB	(A)
Ital	Air Cor	ditioner Refrigeran	nt Consumption			CEC's sub	ostitute: HFC13	34a 320g		
mer	Interio	r VOC		Meet the JAMA'	s Target (Lower II	nterior VOC Levels	s than the Target	Set by the Minis	try of Health, Lab	or, and Welfare)
viron	ental	Lead*1			Meet the	JAMA's Target	(1/10 or Lowe	r of the Usage	in 1996).	
En	invironm Ibstance:	Mercury*2			Meet the JA	AMA's Target (L	Jsage Prohibite	ed in and after	Jan. 2005).	
	on of E pact Su	Hexavalent Chrom	ium		Meet the JA	AMA's Target (L	Jsage Prohibite	ed in and after	Jan. 2008).	
	Reducti	Cadmium			Meet the JA	AMA's Target (L	Jsage Prohibite	ed in and after	Jan. 2007).	
	Parts N	Not Subject to JAMA	A's Target	*1: Lead aci *2: LDC disp lamp (e>	d battery (excl lay such as for ccluding the ul	uded because r navigation sys tratrace level o	the collection stem, combina of usage in par	route for recy ation meter, di ts indispensab	/cling is establi scharge head l lle for traffic sa	shed) amp, room fety)
or Environment	Recycl	ing		Consider ease resin parts, sti Use recycled i	e of recycling (u ructure that can materials for the	se of materials be easily disass dash silencer,	that can be reesembled, etc.). door trim pocke	cycled easily, ir et, luggage floo	ndication of mat r box, lower cov	erial names on er tray, etc.
fforts fo	Usage	of Environmental II	mpact Substances	Lead: Used fo	r solder for ele	ctronic boards	and electric pa	rts, piezoelecti	ric element (PZ	r sensor), etc.
Spe	cificatio	ons		(	3		Х			Г

(Note 1) Vehicles with the idling stop system adopted

(Note 1) Vehicles with the taining stop system adopted (Note 1) A measure for tax reduction when a new car is purchased according to the "tax system to promote the use of eco-friendly vehicle "By the registration of a new car on March 31, 2012 for the automobile acquisition tax automobile weight tax

\* The fuel consumption rates are the values obtained under a specific testing condition. The rates vary according to the actual use conditions (weather, traffic, etc) and driving situations (sudden starting, use of air conditioner, etc).



	Vehicle Name Passenger Capacity (Persons)					Wagon	R					
Pas	senger	Capacity (Persons)		4								
	Vehicle	е Туре			DBA-MH23S							
		Model	. (1)	K6A								
_		Total Piston Displa	acement (L)	0.658								
tior	ine	Туре										
mai	ng U	Applicable Fuel		Lead-free Gasoline								
for	-	Fuel Supply Syster				Electro	nically Con		i injection s	system		
c II		Max. Torque[N-m()	KW (PS) / Ipilij kat-m)/mm]				4	$\frac{0(34)}{0,30}$	0			
asi	.=		kgi-iii//ipiiij				0	3(0.4)/3,30				
	Erai	Drive System		20	VD	4V	VD	2WD	20	VD	4V	VD
	Drive	Transmission		5MT	4AT	5MT	4AT	CVT	4AT	CVT	4AT	CVT
	Vehicle	e Weight (kg)		800	810	850	860	840	830	850	880	900
	a	10-15 mode	Fuel Efficiency (km/l)	23.5	22.0	21.5	20.0	25.0	21.0	23.5	20.0	22.5
	Rat	10 13 11000	CO2 Emission (g/km)	99	106	108	116	93	111	99	116	103
	ion	JC08 Mode	Fuel Efficiency (km/l)	22.0	20.4	20.6	19.0	23.6	20.4	22.4	19.0	21.0
mation	mpt		CO2 Emission (g/km)	106	114	113	122	98	114	104	122	111
	Fuel Consu	Reference		2010 Fuel Efficiency Standard + 25%	2010 Fuel Efficiency Standard + 15%	2010 Fuel Efficiency Standard + 20%	2010 Fuel Efficiency Standard + 10%	2010 Fuel Efficiency Standard + 25%	2010 Fuel Efficiency Standard + 15%	2010 Fuel Efficiency Standard + 25%	2010 Fuel Efficiency Standard + 10%	2010 Fuel Efficiency Standard + 25%
		Applicable Standar	Achieveu	Achieveu	Achieveu	Acilieveu	SII-LEV	Achieveu	Achieveu	Achieveu	Achieveu	
	Gas	Test Mode					1008	H + IC08C N	Mode			
for	Ist	Degulation /	CO	1.15								
e Ir	hat	Certification	NMHC	0.013								
anc	ă	Values, etc. (g/km)	NOx	0.013								
Ĩ	Standard	for the Designation of Lo	Meet the Nine-cities Standard for the Designation of Low-emission Vehicles.									
Perfo	Noise	Applicable Standa	rd Level	Conforming to 1998 Standard Acceleration Noise Regulation Value: 76 dB (A)								
ntal	Air Cor	nditioner Refrigeran	nt Consumption	CFC's substitute: HFC134a, 320g								
mei	Interio	r VOC		Meet the JA	MA's Target (	Lower Interio	r VOC Levels	han the Targ	et Set by the	Ministry of He	ealth, Labor, a	ind Welfare)
viron	nental es	Lead*1			Ме	et the JAMA	A's Target (2	L/10 or Low	ver of the U	sage in 199	96).	
E	invironr bstanc	Mercury* <sup>2</sup>			Meet	the JAMA's	s Target (Us	age Prohibi	ited in and	after Jan. 2	005).	
	ion of F pact Su	Hexavalent Chrom	ium		Meet	the JAMA's	s Target (Us	age Prohibi	ited in and	after Jan. 2	008).	
	Reduct	Cadmium			Meet	the JAMA's	a Target (Us	age Prohibi	ited in and	after Jan. 2	007).	
	Parts N	Not Subject to JAMA	A's Target	*1: Lead *2: LDC o lamp	acid batter display such (excluding	y (excluded as for nav the ultratra	because th igation syst ice level of	ne collectio em, combir usage in pa	n route for nation mete arts indispe	recycling is er, discharg nsable for t	s establishe e head lam traffic safet	ed) p, room y)
invironment	Recycl	ed		Consider names o the dash	ease of re n resin part silencer.	cycling (us s, structure	e of mater that can b	ials that ca e easily dis	in be recyc assembled,	led easily, , etc.). Use	indication ( recycled m	of material aterials for
s for E	Usage	of Environmental II	mpact Substances				Lead: Used	for electro	nic boards			
Effort	Others	;										
Spe	cificati	ons			F	Х		FX Idling Stop		FX Li	mited	

\* The fuel consumption rates are the values obtained under a specific testing condition. The rates vary according to the actual use conditions (weather, traffic, etc) and driving situations (sudden starting, use of air conditioner, etc).



Vehicle Name				Splash			
Pas	senger	Capacity (Persons)		5			
	Vehicle	е Туре		DBA-XB32S			
		Model		K12B			
		<b>Total Piston Displa</b>	icement (L)	1.242			
_	е	Туре		In-line three-cylinder Engine: DOHC16V Air-intake/Exhaust VVT			
tion	gi.	Applicable Fuel		Lead-free Regular Gasoline			
na	E	Fuel Supply System	n	Electronically Controlled Fuel Injection			
fon		Max. Output (net)[	kW (PS) / rpm]	67(91)/6.000			
In		Max. Torque[N·m()	(gf-m)/rpm]	118(12.0)/4.800			
Basic	Train	Drive System		2WD			
	Drive	Transmission		CVT			
	Vehicle	e Weight (kg)		1,050			
	Remar	ks					
	te	10.15	Fuel Efficiency (km/l)	20.5			
	ion Ra	10-15 mode	CO2 Emission (g/km)	113			
	Idmus	IC08 Mode	Fuel Efficiency (km/l)	19.6			
	el Con	JC00 MOde	CO2 Emission (g/km)	118			
ition	Fu	Reference		2010 Fuel Efficiency Standard + 25% Achieved			
	s	Applicable Standard	I / Certification Level	SU-LEV (Level 75% Lower than 2005 Exhaust Gas Standard)			
	Ga	Test Mode		JC08H + JC08C Mode			
Ľ	ust	Regulation /	CO	1.15			
lfo	cha	Certification	NMHC	0.013			
e Ir	Ĥ	Values, etc. (g/km)	NOx	0.013			
nc	Standard	for the Designation of Lo	w-Emission Vehicles, etc.	Vehicles Conforming to the Nine-cities Standard for the Designation of Low-emission Vehicles			
Ľ	Vehicle	s Subject to Eco-Car Ta	x Reduction (Note 1)	0			
Perfo	Vehicles Purchas	that Conform to the Laving	w on Promoting Green	0			
ental	Noise	Applicable Standa	rd Level	Conforming to 1998 Standard Acceleration Noise Regulation Value: 76 dB (A)			
Ĩ	Air Co	ditioner Refrigeran	t Consumption	CFC's Substitute: HFC134a, 370g			
iro	Interio	r VOC		Meet the JAMA's Target (Lower Interior VOC Levels than the Target Set by the Ministry of Health, Labor, and Welfare).			
Env	iental s	Lead*1		Meet the JAMA's Target (1/10 or Lower of the Usage in 1996).			
	nvironn ostance	Mercury* <sup>2</sup>		Meet the JAMA's Target (Usage Prohibited in and after Jan. 2005).			
	on of El lact Sul	Hexavalent Chrom	ium	Meet the JAMA's Target (Usage Prohibited in and after Jan. 2008)			
	teducti Imp	Cadmium		Meet the JAMA's Target (Usage Prohibited in and after Jan. 2007)			
	Parts N	lot Subject to JAMA	's Target	<ul> <li>*1: Lead acid battery (excluded because the collection route for recycling is established)</li> <li>*2: LDC display such as for navigation system, combination meter, discharge head lamp, room lamp (excluding the ultratrace level of usage in parts indispensable for traffic safety)</li> </ul>			
invironment	Recycl	ing		Consider ease of recycling (use of materials that can be recycled easily, indication of material names on resin parts, structure that can be easily disassembled, etc.).			
orts for E	Usage	of Environmental Ir	npact Substances	Lead: Used for solder for electronic boards and electric parts, piezoelectric element (PZT sensor).			
<sup>信</sup> Others							

(Note 1) A measure for tax reduction when a new car is purchased according to the "tax system to promote the use of eco-friendly vehicle" By the registration of a new car on March 31, 2012 for the automobile acquisition tax and on April 30, 2012 for the automobile weight tax Because the Automobile Green Tax applies, the automobile tax will be reduced also for the next fiscal year of the purchase. By the registration of a new car on March 31, 2012



		Vehicle Nam	10	Solio					
Pase	senger	Capacity (Persons)		5					
	Vehicle	е Туре		DBA-MA15S					
		Model	(-)	К12В					
-		Total Piston Displa	acement (L)	1.242					
ion	ne	Туре			In-line Four-cylinder	Engine: DOHC16V A	ir-intake/Exhaust VV	Τ	
nat	ngi	Applicable Fuel		Read-free Regular Gasoline					
for	ш	Fuel Supply System	n		Electroni	cally Controlled Fuel	Injection		
:In:		Max. Output (net)	kW (PS) / rpm]			67(91)/6,000			
asic		Max. Torque[N•m(k	kgt•m)/rpm]			118(12.0)/4,800			
Bá	rair	Drive System		2WD	2WD	4WD	2WD	4WD	
	Driv	Transmission			I	nstrument Panel CV	Г		
	Vehicle	e Weight (kg)		1,000	1,030	1,080	1,040	1,090	
	te		Fuel Efficiency (km/l)	22.5	21.0	20.0	21.0	20.0	
	ion Ra	10-15 mode	CO2 Emission (g/km)	103	111	116	111	116	
	sumpt	JC08 Mode	Fuel Efficiency (km/l)	20.0	20.0	18.8	20.0	18.0	
	el Con		CO2 Emission (g/km)	116	116	123	116	129	
	Fu	Reference			2010 Fuel Eff	iciency Standard + 2	25% Achieved		
ation	IS	Applicable Standard	d / Certification Level		SU-LEV (Level 75%	Lower than 2005 Ex	haust Gas Standard)		
	t G	Test Mode				IC08H + JC08C Mode	9		
rm	sne	Regulation /	C0			1.15			
nfo	xhŝ	Certification	NMHC		0.013				
ce		values, etc. (g/km)	NOx			0.013			
an	Standard	I for the Designation of Lo	w-Emission Vehicles, etc.	Venicles Conforming to the Nine-cities Standard for the Designation of Low-emission Venicles					
orm	Vehicle	s Subject to Eco-Car Ta	x Reduction (Note 1)	0	0	0	0	0	
Perf	Vehicles Purchas	s that Conform to the Lav ing	w on Promoting Green	0	0	0	0	0	
nenta	Noise	Applicable Standar	rd Level	Conforming to 1998 Standard Acceleration Noise Regulation Value: 76 dB (A)					
nn	Air Co	nditioner Refrigeran	t Consumption		CFC's	Substitute: HFC134a	, 370g		
vire	Interio	r VOC		Meet the JAMA's Targe	et (Lower Interior VOC Le	evels than the Target Set	by the Ministry of Heal	th, Labor, and Welfare).	
Er	menta es	Lead*1			Meet the JAMA's Targ	get (1/10 or Lower o	f the Usage in 1996	).	
	Environ Ibstanc	Mercury*2		Me	eet the JAMA's Targe	t (Usage Prohibited	in and after Jan. 200	)5).	
	ion of l pact Su	Hexavalent Chrom	ium	M	eet the JAMA's Targe	t (Usage Prohibited	in and after Jan. 200	08)	
	Reduct	Cadmium		M	eet the JAMA's Targe	t (Usage Prohibited	in and after Jan. 200	07)	
	Parts N	Not Subject to JAMA	\'s Target	*1: Lead acid batt *2: LDC display su lamp (excludio	ery (excluded becau ich as for navigation ng the ultratrace leve	se the collection ro system, combinatio el of usage in parts i	ute for recycling is on meter, discharge ndispensable for tra	established) head lamp, room affic safety)	
invironment	Recycl	ing		Consider ease of names on resin p the dash silencer,	recycling (use of m arts, structure that c , door trim pocket, ir	naterials that can be can be easily disasse nstrument panel part	e recycled easily, in embled, etc.). Use re s, etc.	dication of material ecycled materials for	
orts for E	Usage	of Environmental In	npact Substances	Lead: Used for solo	der for electronic bo	ards and electric pa	rts, piezoelectric ele	ement (PZT sensor).	
Eff	Others	;							
Spe	cificati	ons		G	)	(		S	

Measures for tax reduction when a new car is purchased according to the "tax system to promote the use of eco-friendly vehicle" and "Automobile Green Tax" By the registration of a new car on March 31, 2012 for the automobile acquisition tax By the registration of a new car on April 30, 2012 for the (Note 1)

The automobile tax is deducted by the Automobile Green Tax in fiscal 2010 and 2011. The automobile tax will be reduced also for the next fiscal year of the purchase. (Applicable to new vehicles registered by March 31, 2012)



		Vehicle Nam	10	Landy							
Pase	senger	Capacity (Persons)					8				
	Vehicle	е Туре			DBA—SC26			DBA—SNC26			
		Model				MF	R20				
5		<b>Total Piston Displa</b>	acement (L)	1.997							
Itio	e	Туре			Direct Fuel In	jection, In-line F	our-cylinder Eng	ine: DOHC16V			
ma	lig.	Applicable Fuel				Read-free Re	gular Gasoline				
for	Ē	Fuel Supply System	n		Elect	ronic Controlled	Fuel Injection Sy	stem			
c In		Max. Output (net)[	kW (PS) / rpm]		108(147)/5,600			106(144)/5,600			
asi		Max. Torque[N•m(H	(gf-m)/rpm]		210(21.4)/4,400			207(21.1)/4,400			
B	Train	Drive System			2WD			4WD			
	Drive	Transmission				C	VT				
	ate	10-15 modo	Fuel Efficiency (km/l)	14.4	15.4(	Note1)	13.4	14.4(	Note1)		
	ion Ra	10-15 mode	CO2 Emission (g/km)	161	15	51	173	1	61		
	sumpti	JC08 Mode	Fuel Efficiency (km/l)	13.8	14.6(	Note1)	12.6	13.4(	Note1)		
	el Con:		CO2 Emission (g/km)	168	15	59	184	173			
	Fue	Reference			2010 F	uel Efficiency St	andard + 25% Ac	25% Achieved			
_	s	Applicable Standard	d / Certification Level		SU-LEV (Leve	1 75% Lower tha	n 2005 Exhaust (	Gas Standard)			
rmatio	Ga	Test Mode				JC08H + J(	CO8C Mode				
	ust	Regulation /	CO			1.	15				
Ifoi	cha	Certification	NMHC			0.0	)13				
e Ir	£	Values, etc. (g/km)	NOx			0.0	)13				
anc	Standard	for the Designation of Lo	w-Emission Vehicles, etc.	Vehicles Conf	forming to the Nir	ne-cities Standar	d for the Designa	ation of Low-emi	ssion Vehicles		
L	Vehicles	s Subject to Eco-Car Ta	x Reduction (Note 2)	0	0	0	0	0	0		
Perfo	Vehicles Purchasi	that Conform to the Lav	w on Promoting Green	0	0	0	0	0	0		
ental	Noise	Applicable Standa	rd Level	Cont	forming to 1999 S	Standard: Accele	ration Noise Regu	ulation Value 76d	B (A)		
nm	Air Cor	ditioner Refrigeran	t Consumption			CFC's Substitute	e: HFC134a, 800g				
/iro	Interio	r VOC		Meet the JAMA's	Target (Lower Interio	r VOC Levels than th	e Target Set by the	Ministry of Health, La	abor, and Welfare).		
Env	nental es	Lead*1			Meet the JAMA	A's Target (1/10 d	or Lower of the U	sage in 1996).			
	nvironr bstanc	Mercury* <sup>2</sup>			Meet the JAMA's	s Target (Usage F	Prohibited in and	after Jan. 2005).			
	on of E lact Su	Hexavalent Chrom	ium		Meet the JAMA's	s Target (Usage F	Prohibited in and	after Jan. 2008)			
	Reducti	Cadmium			Meet the JAMA's	s Target (Usage F	Prohibited in and	after Jan. 2007)			
	Parts N	lot Subject to JAMA	's Target	*1: Lead acid *2: LDC displa lamp (excl	battery (excluded y such as for nav luding the ultratra	because the co igation system, c ice level of usag	llection route for combination mete e in parts indispe	recycling is esta er, discharge hea nsable for traffic	blished) d lamp, room safety)		
nvironment	Recycl	ing		Consider ease names on resi the floor carp	e of recycling (us in parts, structure et, floor spacer, s	e of materials t that can be eas plash side cover	hat can be recyc sily disassembled , fender fittings, e	cled easily, indica , etc.). Use recyc etc.	ation of material led materials for		
rts for El	Usage	of Environmental Ir	npact Substances	Lead: Used for	solder for electro	onic boards and e	electric parts, pie	zoelectric eleme	nt (PZT sensor).		
Effo	Others										
Spe	cificatio	ons		2.0S	2.0S <sup>(Note3)</sup>	2.0G	2.0S	2.0S <sup>(Note3)</sup>	2.0G		

(Note 1)

Vehicles with the idling stop system adopted Measures for tax reduction when a new car is purchased according to the "tax system to promote the use of eco-friendly vehicle" and "Automobile Green Tax" Deduction of the automobile acquisition tax is applicable to new cars registered by March 31, 2012. Deduction of the automobile weight tax is applicable to new cars registered by April 30, 2012. The automobile tax is deducted by the Automobile Green Tax in fiscal 2010 and 2011. The automobile tax will be reduced for the next fiscal year of the purchase. (Applicable to new unbicks registered by March 31, 2012) (Note 2)

(Applicable to new vehicles registered by March 31, 2012)

(Note 3) Vehicles with maker set options adopted (idling stop system, VDC, hill hold control, power slide door on both sides, and discharge head lamp)



### **Motorcycles**

Vehicle Name										
Dac	condor	Canacity (Porcon	c)	LET'S 4 (UZ50DL1)	LET'S 4 PALETTE (UZ50FL1)	LET'S 5G (UZ50YGL1)				
ras	Vehicle	Type	5)	IBH-						
	Vennore	Model			A404	5511 0/14/7/				
u		Total Piston Dis (cm <sup>3</sup> )	placement		49					
nati	e	Туре		Air Co	oling, 4 Cycles, Single Cylinder, SOHC 2	2 Valves				
orm	lgi.	Applicable Fuel			Lead-free Gasoline					
sic Inf	ш	Max. Output (ne [kW (PS) / rpm]	t)		3.3(4.5)/8,000					
Bas		Max. Torque [N-m(kg-m)/rpm]			3.9(0.40)/7,000					
	Transmission				V-Belt Stepless Speed Change					
	Weight	(kg)		68	69	74				
nation	Fuel Consumption Rate	Fuel Consumption during Running at 30 km/h on Proving Ground (km/L) *		73.0						
rma	as	Applicable stand	lard level		Conforming to 2006 Standard					
nfo	st G	Motorcycle	CO		2.0					
Ce	au	Mode	НС		0.5					
an	EXT	Value (g/km)	NOx		0.15					
erform	Noise	Applicable Stand	lard Level	Conforming to 1998 Standard Acceleration Noise Regulation Value: 71 dB (A)						
ntal P	nental es	Lead*1		Meet the JAMA's Target (60 g or Lower of the Usage in Jan. 2006).						
onme	invironr Ibstance	Mercury* <sup>2</sup>		Meet the JAM	IA's Target (Usage Prohibited in and af	ter Oct. 2004).				
Envir	ion of E pact Su	Hexavalent Chro	mium	Meet the JAN	IA's Target (Usage Prohibited in and af	ter Jan. 2008).				
	Reduct	Cadmium		Meet the JAN	IA's Target (Usage Prohibited in and af	ter Jan. 2007).				
	Parts N	ng is established) narge head lamp affic safety)								
nvironment	Recycli	ing		Consider ease of recycling (use resin parts, structure that can be Use recycled PP for the front fra hook, and U-lock holder.	of materials that can be recycled eas easily disassembled, etc.). ame cover, leg front, rear leg, mainte	ily, indication of material names on nance lid No. 1/No. 2, convenience				
s for El	Usage Substa	of Environmental nces	Impact	Lead: Used for solder for elec	ctronic boards and electric parts, piezo	pelectric element (PZT sensor).				
Others										

\* The fuel consumption values during running on proving ground are the values obtained under a specific testing condition. Therefore, they vary according to weather, road, vehicle, driving and other conditions during running.



### **Motorcycles**

Vehicle Name					Sky Wave					
				400 Limited ABS (AN400ZA)	400 Type S ABS (AN400SA)	250 Limited (AN250Z)	250 Type S (AN250S)			
Pas	senger	Capacity (Person	s)	(	(	2	(AN2302) (AN2303)			
Vehicle Type				EBL-0	CK45A	JBK-	CJ46A			
		Model		K4	32	J4	41			
uo		Total Piston Dis (cm <sup>3</sup> )	placement	3	399 249					
nati	Je	Туре			Air Cooling, 4 Cycles, Sing	le Cylinder, DOHC 4 Valves				
orn	lgir	Applicable Fuel			Lead-free	e Gasoline				
ic Inf	Ξ	Max. Output (ne [kW (PS) / rpm]	t)	23(31.2	2)/7,000	19(26	)/7,500			
Bas		Max. Torque [N-m(kg-m)/rpm	]	33(3.4	)/5,000	25(2.5	)/6,000			
	Transn	nission			V-Belt Stepless	Speed Change				
	Vehicle	e Weight (kg)		227	223	218	214			
uo	Fuel Consumption during Running at 60 km/h on Proving Ground (km/L) *			32	2.0	39.0				
nati		Applicable stand	lard level	Conforming to	2007 Standard	Conforming to	2006 Standard			
orm	Ga:	Motorcycle CO		2.0						
E	ust	Mode	НС							
nce	cha	Value (g/km)	NOx	0.15						
ma	Ê	Reference	1							
Perfor	Noise	Applicable Stand	dard Level	Conforming to Acceleration Noise Reg	2001 Standard, sulation Value: 73 dB (A)	Conforming to Acceleration Noise Reg	1098 Standard, Julation Value: 73 dB (A)			
ental	iental s	Lead*1		Me	eet the JAMA's Target (60 g c	or Lower of the Usage in 20	06).			
ironm	nvironn bstance	Mercury* <sup>2</sup>		Meet the JAMA's Target (Usage Prohibited in and after Oct. 2004).						
Env	ion of E pact Su	Hexavalent Chro	omium	Meet the JAMA's Target (Usage Prohibited in and after Jan. 2008).						
	Reduct Im	Cadmium		Mee	t the JAMA's Target (Usage F	Prohibited in and after Jan. 2	007).			
	Parts N	lot Subject to JAI	MA's Target	<ul> <li>*1: Lead acid battery (excluded because the collection route for recycling is established)</li> <li>*2: LDC display such as for navigation system, combination meter, discharge head lamp (excluding the ultratrace level of usage in parts indispensable for traffic safety)</li> </ul>						
onment	Recycl	ing		Consider ease of recyclin resin parts, structure that	ng (use of materials that ca t can be easily disassembled	an be recycled easily, indicad, etc.). Use recycled PP for	ation of material names on the helmet box front cover.			
for Envir	Usage Substa	of Environmenta nces	Impact	Lead: Used for solde	er for electronic boards and	electric parts, piezoelectric	element (PZT sensor).			
Efforts	Others									

\* The fuel consumption during running on proving ground is the values obtained under a specific testing condition. Therefore, they vary according to weather, road, vehicle, driving and other conditions during running.



#### Marine & Power Products (Outboard Motors)



•The unit of engine output has been changed from PS/rpm to kW/rpm. The figures in parentheses are reference values based on the old unit. We are an outboard engine workplace certified according to the Ship Safety Law of the Ministry of Land, Infrastructure and Transport.



## Efforts by Suzuki's Domestic Plants and Domestic Manufacturing Group Companies

To be a community-friendly company, we are actively participating in communication activities with local communities, social action programs, environmental protection activities, etc. This section describes the communication activities and environmental data collected at each of six domestic plants, and environmental data at eight manufacturing group companies\* in fiscal 2010.

\* Among nine manufacturing group companies, Estec Co., Ltd. is excluded because they have no relevant equipment.



#### <Environment-Related Data>

Each plant follows laws, regulations and agreements for environmental control, and is promoting the reduction of environmental impact, based on the strictest regulation values. Moreover, the in-house standard values are set to 70% of the strictest regulation values to aggressively reduce the environmentally unfriendly substances, as well as to prevent environmental incidents.

- ①Water quality [Code: Name (unit)] pH: Hydrogen-ion concentration (none) BOD: Biochemical oxygen demand (mg/L) SS: Suspended solids (mg/L) and Other items (mg/L)
- ②Air quality [Code: Name (unit)] NOx: Nitrogen oxide (ppm) SOx: Sulfur oxide (K value) Particulate (g/Nm<sup>3</sup>) Chlorine, hydrogen chloride, fluorine and hydrogen fluoride (mg/Nm<sup>3</sup>) Dioxins (ng-TEQ/Nm<sup>3</sup>)
- ③Among Water Pollution Control Law, Air Pollution Control Law, ordinances by local government and agreements on environmental pollution control, the strictest regulation values are adopted as our standard values. (The "-" mark indicates "no regulation value.")
- ④For the equipment using LPG fuel that does not contain sulfur, the SOx measurement is not required.



#### **Suzuki's Domestic Plants**

#### Kosai Plant



[Operations]Final assemblir[Plant site area]1,190,000m²[Building area]466,000m²[Number of employees]2,517 persons[Location]4520 Shirasul

Final assembling of mini compact vehicles 1,190,000m<sup>2</sup> 466,000m<sup>2</sup> 2,517 persons 4520 Shirasuka, Kosai City, Shizuoka Prefecture

## <Efforts for Communication Activities, etc.> Elementary School Children's Kosai Plant Tour

We invited a total of 13,000 fifth-grade students from 160 elementary schools in Shizuoka Prefecture to the Kosai Plant tour as an out-of-classroom social lesson in fiscal 2010.

In this plant tour, we showed the video about "how to manufacture Suzuki automobiles," allowed children to see the assembly plant and wind-driven power generating facility, and introduced the assembly conveyor systems and production of environmentallyfriendly vehicles.



#### Information Exchange Meeting with Local Community Association

Believing that we could enhance mutual understanding with local residents by exchanging information, we held the exchange meeting with the local community association (Kosai Plant Tour) once a year. At this meeting, we introduced our business activities, environmentallyfriendly automobile production, traffic safety guidance for commuters, and 5S activities around the plant. Also, in addition to the automobile assembly lines, the environment-related facilities, such as incineration site and wind-driven power generating facility, were shown to visitors.



#### 5S Activities around Kosai Plant

As part of environmental conservation, we performed cleanup activities on roads around the plant three times a year together with affiliated companies located in the plant site (as a total of 150 persons). Also, employees and suppliers are strictly prohibited from littering and encouraged to raise environmental awareness.



#### Requesting Kosai Plant's Carriers for Cooperation

Carriers transporting cargoes to and from Kosai Plant are also requested to understand its environmental policy and activities, and cooperate in "Prohibition of littering,", "Promotion of idling stop campaign," and "Preferential utilization of central highway."





#### Traffic Safety Guidance around Kosai Plant

We conduct traffic safety guidance on commuter roads and crossings around the plant to check employees' seatbelt usage, improve traffic manners mainly at intersections, and prevent traffic accidents. 600 employees in total participated in this activity on streets and cooperated to building of safe and comfortable town in fiscal 2010.



#### <Environment Data>

#### <Water Quality Data (at drain outlets)>

Items	Regulation values	Results	Averages
pН	5.8 - 8.6	7.3 - 7.9	7.7
BOD	15	0.9 - 3.9	1.9
SS	15	0.0 - 6.0	1.2
<b>Oil content</b>	2	0.3 - 0.9	0.6
Lead	0.1	0.005 - 0.02	0.01
Chrome	0.4	0.04 - 0.1	0.07
Total nitrogen	12	0.57 - 4.2	2.19
Total phosphorous	2	0.09 - 0.63	0.32
Zinc	1	01-02	0 14

#### Participation in Lake Hamana Cleanup Campaign

We participated in Lake Hamana Cleanup Campaign led by Kosai City and cleaned the coast along Lake Hamana. About 90 employees participated in this cleaning through the Kosai branch of labor union in fiscal 2010.



#### <Air Quality Data (at exhaust outlets)>

Substances	Facilities	Regulation values	Results	Averages
	Small-sized boiler	150	78 - 100	87
	Incinerator	200	86 - 98	91
	Electrodeposition drying furnace	230	56 - 75	66
NOx	Cooling and heating machine 1	150	51 - 61	55
	Cooling and heating machine 2	150	61 - 62	62
	Cooling and heating machine 3	150	81 - 110	95
	Water-tube boiler	150	—	_
	Small-sized boiler	7	Under 0.05 - 0.09	0.07
	Incinerator	7	0.61 - 0.68	0.65
(K VALUL)	Electrodeposition drying furnace	7	Under 0.02	Under 0.02
	Small-sized boiler	0.1	Under 0.01	Under 0.01
	Incinerator	0.15	Under 0.01 - 0.02	0.01
	Electrodeposition drying furnace	0.2	Under 0.02	Under 0.02
Particulates	Cooling and heating machine 1	0.1	Under 0.01	Under 0.01
	Cooling and heating machine 2	0.1	Under 0.01	Under 0.01
	Cooling and heating machine 3	0.1	Under 0.01	Under 0.01
	Water-tube boiler	0.1	—	_
lydrogen chloride	Incinerator	150	1 - 60	24
Dioxin	Incinerator	5	0.12	0.12
CO	Incinerator	100	17	17

#### Come I attack substances (accumulate harden according to DTDD)

Init: kalupar

<b>SERIN</b>	in rin Taiser substances (accumulated values calculated according to FRIR Law) Offic. Rg/ye									UTIIL. Kg/year	
Sub-			Pollu	tants		Trai	nsfer		Recycled	Decomnosition	Product
stance No.	Substance names	Amount*	Air	Rivers	Sewerage	Soil	Waste	Landfill	amount	disposal	inclusion
1	Zinc compound (water-soluble)	42,000	0	250	0	0	0.2	0	12,000	0	29,000
53	Ethyl benzene	250,000	140,000	0	0	0	0	0	70,000	15,000	28,000
80	Xylene	430,000	180,000	0	0	0	0	0	91,000	39,000	120,000
83	Cumene	5,900	4,100	0	0	0	0	0	20	1,800	0
239	Organic tin compound	9,000	0	0	0	0	0	0	450	0	8,500
296	1, 2, 4 - trimetyl benzene	240,000	120,000	0	0	0	0	0	17,000	39,000	63,000
297	1, 3, 5 - trimetyl benzene	84,000	49,000	0	0	0	0	0	26,000	7,700	0
300	Toluene	590,000	240,000	0	0	0	0	0	120,000	31,000	200,000
302	Naphthalene	120,000	67,000	0	0	0	0	0	0	55,000	0
309	Nickel compounds	6,200	0	68	0	0	230	0	4,000	0	1,900
355	Bis phthalate (2-ethylhexyl)	140,000	0	0	0	0	0	0	0	2,300	140,000
374	Hydrogen fluoride and its water- soluble salt	4,800	0	680	0	0	0	0	4,200	0	0
392	Normal-hexane	83,000	1,600	0	0	0	0	0	0	2,700	78,000
400	Benzene	14,000	140	0	0	0	0	0	0	470	13,000
407	Poly(oxyethylene) alkyl ether (alkyl group: C12 - C15))	1,700	0	130	0	0	0	0	0	1,600	0
411	Formaldehyde	7,300	5,700	0	0	0	0	0	8.8	1,600	0

\* Since the calculation was made with two effective digits, the amount may not be consistent with the total of the right columns (Discharge, Transfer, Recycled, Incineration disposal, and Products). 95



#### **Iwata Plant**



## <Efforts for Communication Activities, etc.> • Voluntary Cleanup around the Plant

For the purpose of maintaining the clean environment in surrounding areas, the plant's employees performed cleanup by picking up trash ("Cleanup Program") around the plant once a month. In addition, it is further promoting environmental preservation around the plant by providing environmental education to employees and requesting Business Partners for cooperation to our environmental preservation activities.



#### Deepening Exchange with Local Residents

Aiming to "develop with the community," the plant invites board members of local residents' association and other interested persons for the plant tour, providing them with information on our environmental activities and freely exchanging opinions. Also, we released the implementation progress of the environmental measures at lwata Plant to the local residents' association once in three months to further deepen mutual understanding.



#### [Operations]

[Plant site area] [Building area] [Number of employees] [Location] Final assembling of mini and compact vehicles 298,000m<sup>2</sup> 163,000m<sup>2</sup> 1,451 persons 2500 Iwai, Iwata City, Shizuoka Prefecture

#### Participation in Groundwater Cultivation Business

We participate in the groundwater cultivation business cosponsored by the Council for Groundwater Usage in Chuen Area and the Iwata City Environment Preservations Section once a year, and work for forest conservation activities together with other companies by planting and thinning out trees.



#### Traffic Manner Check & Guidance

Traffic safety guidance activities were carried out on public streets around the plant by the plant's traffic safety group members to improve traffic manners of employees.

#### Lending of Sports Ground

The plant lends its ground to local sports groups. Since the ground is equipped with a lighting facility, they can enjoy evening practices or games.

#### Acceptance of Plant Tour for Elementary and Junior High School Students

We accept students from the local schools, as part of the outdoor social studies program, and provide them with a plant tour. The plant tour, which enables them to learn how automobiles are actually assembled, is helpful for their better understanding of the real world of manufacturing.



#### <Environment Data>

#### <Water Quality Data (at drain outlets)>

Items Regulation values		Results	Averages
pН	5.8 - 8.6	6.7 - 7.9	7.3
BOD	15/20	0.7 - 7.4	3.8
SS	30/40	0.1 - 3.8	1.2
<b>Oil content</b>	3	0.1 - 1.0	0.4
Lead	0.1	0.01 - 0.02	0.01
Chrome	2	0.0 - 0.1	0.0
Total nitrogen	60/120	4.1 - 19.1	13.8
Total 8/16		0.4 - 9.6	3.5
Zinc	1	0.1 - 0.37	0.2

#### <Air Quality Data (at exhaust outlets)>

Substances	Facilities	Regulation values	Results	Averages
	Boiler 1	130	58 - 70	64
Nov	Boiler 3	150	93 - 100	97
NUX	Hot Water Boiler	150	93 - 100	97
	Cooling and heating machine	150	65 - 110	83
SOx (K VALUE)	Boiler 3	17.5	3 - 4	4
	Boiler 1	0.1	—	_
Doutioulatoo	Boiler 3	0.3	Under 0.01	Under 0.01
Particulates	Hot Water Boiler	0.1	—	_
	Cooling and heating machine	0.1	—	—

#### <PRTR Target Substances (accumulated values calculated according to PRTR Law)>

Unit: kg/year

Sub-			Pollu	tants		Tran	sfer		Pacyclad	Decomposition	Product
stance No.	Substance names	Amount*	Air	Rivers	Sewerage	Soil	Waste	Landfill	amount	disposal	inclusion
1	Zinc compound (water-soluble)	13,000	0	76	0	0	3,700	0	0	0	8,900
53	Ethyl benzene	130,000	71,000	0	0	0	0	0	37,000	10,000	17,000
80	Xylene	200,000	76,000	0	0	0	0	0	39,000	11,000	71,000
239	Organic tin compound	15,000	0	0	0	0	750	0	0	0	14,000
296	1, 2, 4 - trimetyl benzene	93,000	45,000	0	0	0	0	0	6,900	3,300	37,000
297	1, 3, 5 - trimetyl benzene	29,000	18,000	0	0	0	0	0	8,800	2,500	0
300	Toluene	300,000	110,000	0	0	0	16	0	56,000	15,000	120,000
302	Naphthalene	5,200	2,900	0	0	0	0	0	280	2,000	0
309	Nickel compounds	1,400	0	15	0	0	950	0	0.1	0	420
355	Bis phthalate (2-ethylhexyl)	110,000	0	0	0	0	3,300	0	0	0	110,000
392	Normal-hexane	47,000	130	0	0	0	0	0	0	740	46,000
400	Benzene	8,100	15	0	0	0	0	0	0	130	8,000
411	Formaldehyde	4,000	2,800	0	0	0	0	0	76	1,100	0
412	Manganese and its compounds	2,600	0	150	0	0	870	0	0	0	1,600
413	Phtahlic anhydride	1,200	0	0	0	0	36	0	0	0	1,200
438	Methylnaphthalene	7,100	0	0	0	0	0	0	0	7,100	0

\* Since the calculation was made with two effective digits, the amount may not be consistent with the total of the right columns (Discharge, Transfer, Recycled, Incineration disposal, and Products).



#### Sagara Plant



[Operations]Assembling of compact vehicles and<br/>vehicle engines<br/>Casting and machining of engine main<br/>parts[Plant site area]1,979,000m²[Building area]262,000m²[Number of employees]1,681 persons[Location]1111 Shirai, Makinohara City, Shizuoka<br/>Prefecture

## <Efforts for Communication Activities, etc.> • Voluntary Cleanup around the Plant

As part of global environmental preservation activities, Sagara Plant carries out joint cleanup activities three times a year in cooperation with Sagara Proving Grounds, Sagara PDI Center, Suzuki Transportation & Packing Co., Suzuki Kasei, Snic and subcontractors. Also, it is further promoting environmental preservation activities by providing environmental education to employees and requesting vendors and suppliers for cooperation.



#### Deepening Exchange with Local Residents

An annual information exchange meeting is held in February or March to provide information on Suzuki's business activities and environmental efforts to local residents and listen to their opinions. In fiscal 2010, the meeting was held in February 2011 and attended by 18 persons, including representatives of local residents, city councilors, and person in charge of Makinohara area.



#### • Fishing Event at Sagara Plant Reservoir Pond

An annual fishing event with local people is held at Sagara Plant reservoir pond. In fiscal 2010, it was held in October, with carps and deepbodied crucian carp caught.



#### Traffic Safety Guidance Activities

Traffic manners of the plant's employees are checked once a week on the street. The plant also cooperates with the Haibara area safety administration association in crossing guard activities four to six times a year as a partnership with the local community.





#### <Environment Data>

#### <Water Quality Data (at drain outlets)>

Items	Regulation values	Results	Averages
pН	5.8 - 8.6	7.2 - 7.5	7.3
BOD	15/20	2.1 - 7.1	4.2
SS	30/40	1.0 - 1.8	1.4
<b>Oil content</b>	2.5	0.5	0.5
Lead	0.1	0.005 - 0.028	0.008
Chrome	1	Under 0.1	Under 0.1
Total nitrogen	60/120	5.5 - 11.0	8.7
Total phosphorous	Total 8/16		3.9
Zinc	1	0.1 - 0.2	0.1

#### <Air Quality Data (at exhaust outlets)>

Substances	Facilities	Regulation values	Results	Averages
	Heat-treating furnace	180	30 - 37	34
	Dry type dust collector	180	Under 5.0	Under 5.0
Nov	Aluminum melting furnace	180	39 - 46	42
NUX	Electrodeposition drying furnace	230	29 - 34	31
	Cooling and heating machine 1	150	72 - 100	92
	Cooling and heating machine 2	150	77 - 98	88
	Heat-treating furnace	0.2	0.01 - 0.02	0.015
	Dry type dust collector	0.2	Under 0.01	Under 0.01
Deutioulates	Aluminum melting furnace	0.2	Under 0.01	Under 0.01
Particulates	Electrodeposition drying furnace	0.2	Under 0.04	Under 0.04
	Cooling and heating machine 1	0.1	Under 0.01	Under 0.01
	Cooling and heating machine 2	0.1	Under 0.01	Under 0.01
Chlorine	Dry type dust collector	10	Under 1.0	Under 1.0
Hydrogen chloride Dry type dust collector		20	Under 5.0	Under 5.0
Diavin	Dry type dust collector	1	0.0000001	0.0000001
DIOXIN	Processing before facet aluminum	1	0.0000005	0.0000005

#### <PRTR Target Substances (accumulated values calculated according to PRTR Law)>

Unit: kg/year

Sub-			Pollu	tants		Tran	sfer		Recycled	Decomnosition	Product
stance No.	Substance names	Amount*	Air	Rivers	Sewerage	Soil	Waste	Landfill	amount	disposal	inclusion
1	Zinc compound (water-soluble)	7,600	0	46	0	0	2,200	0	0	0	5,300
53	Ethyl benzene	30,000	11,000	0	0	0	0	0	5,200	5,600	8,800
80	Xylene	76,000	11,000	0	0	0	0	0	5,500	22,000	37,000
239	Organic tin compound	3,000	0	0	0	0	150	0	0	0	2,900
296	1, 2, 4 - trimetyl benzene	42,000	10,000	0	0	0	0	0	3,000	8,900	20,000
297	1, 3, 5 - trimetyl benzene	12,000	7,000	0	0	0	0	0	3,600	1,600	0
300	Toluene	150,000	26,000	0	0	0	11	0	13,000	45,000	63,000
309	Nickel compounds	840	0	9.2	0	0	580	0	0	0	250
355	Bis phthalate (2-ethylhexyl)	3,000	0	0	0	0	0	0	0	0	3,000
392	Normal-hexane	34,000	300	0	0	0	0	0	0	9,800	24,000
400	Benzene	6,200	28	0	0	0	0	0	0	2,000	4,200
411	Formaldehyde	820	640	0	0	0	0	0	1.2	180	0
412	Manganese and its compounds	1,500	0	92	0	0	520	0	0	0	920

\* Since the calculation was made with two effective digits, the amount may not be consistent with the total of the right columns (Discharge, Transfer, Recycled, Incineration disposal, and Products).



#### Takatsuka Plant



[Operations]	Assembling of motorcycle engines				
[Plant site area]	and machining of parts 182,000 m <sup>2</sup>				
[Building area]	(including headquarters area) 155,000 m <sup>2</sup>				
[Number of employees]	(including headquarters area) 382 persons				
[Location]	(excluding headquarters staff) 300 Takatsuka-cho, Minami-				
	ku, Hamamatsu City, Shizuoka Prefecture				

## <Efforts for Communication Activities, etc.> Deepening Exchange with Local Residents

On July 7, we invited board members of the local residents' association to our social gathering and plant tour for exchange of opinions and explanation of Suzuki's business activities and efforts for environmental preservation, as well as promotion of mutual communication with them.



#### •Voluntary Cleanup around the Plant

Plant employees voluntarily conducted cleanup around the plant ("Manner Improvement Activities at Motorcycle Plant (Takatsuka)") every other month. This activity was a good opportunity to meet local residents and have communication with them.



#### Noise Monitoring Activity on the West of Plant

We conducted monitoring activities (patrol early in the morning and at night) on the west side of the plant to check noises from the plant four times a year.

We checked noises at 6:00 and 22:00 which was quiet time in order to protect living environment of local residents.



#### Environmental Preservation Activities

Nitric acid used for plating process used to be discharged into rivers after effluent treatment, but nitric acid contains a little nitrogen and there is a possibility to cause overabundance of nutrients in Lake Sanaru. To eliminate this possibility and also to use resources more effectively, we determined to change the conventional treatment method to recycling by a specialized company.





#### <Environment Data>

#### <Water Quality Data (at drain outlets)>

#### Regulation Items Results Averages values pН 5.8 - 8.6 7.2 - 7.6 7.4 BOD 20/30 1.0 - 3.0 1.2 30/40 1.0 - 5.4 2.4 SS **Oil content** 5 0.5 - 1.5 0.96 0.1 0.005 Lead 0.005 Total 60/120 7.56 2.1 - 22.3 nitrogen Total 8/16 0.31 0.08 - 0.93 phosphorous 0.1 - 0.11 0.1 1 Zinc

#### <Air Quality Data (at exhaust outlets)>

Substances	Facilities	Regulation values	Results	Averages
Nov	Small-sized boiler	140	90 - 120	102
NUX	LPG-fueled air conditioner	150	65 - 91	78
SOx	Small-sized boiler	7	2.14 - 2.42	2.28
(K VALUE)	LPG-fueled air conditioner	7	—	—
Particulates Small-sized boiler		180	_	_

Unit: kg/year

#### <PRTR Target Substances (accumulated values calculated according to PRTR Law)>

Sub-Pollutants Transfer Recycled Decomposition Product Amount\* stance Substance names Landfill Rivers Soil Waste amount disposal inclusion Air Sewerage No. 53 Ethyl benzene 16,000 38 0 0 0 0 0 14 16,000 75 80 Xylene 70,000 45 0 0 0 0 0 16 69,000 320 7.6 1.4 0 7.0 296 1, 2, 4 - trimetyl benzene 30,000 0 0 0 29,000 66 297 1, 3, 5 - trimetyl benzene 2,900 39 0 0 0 0 21 2,800 48 0 150,000 670 0 0 0 0 0 80 140,000 1,000 300 Toluene 308 Nickel 8,100 0 0 0 0 0 0 5,700 0 2,400 309 Nickel compounds 6,700 0 0 0 0 0 0 4,800 0 2,000 Hydrogen fluoride and its 374 9,300 0 840 0 0 0 0 0 8,400 0 water-soluble salt 392 Normal-hexane 34,000 14 0 0 0 0 0 0 34,000 0 400 Benzene 7,000 0.4 0 0 0 0 0 0 7,000 23 15,000 438 Methylnaphthalene 0.2 0 0 0 0 0 0.1 15,000 0

\* Since the calculation was made with two effective digits, the amount may not be consistent with the total of the right columns (Discharge, Transfer, Recycled, Incineration disposal, and Products).



#### Toyokawa Plant



[Operations]Assembling of motorcycles and outboard<br/>motors[Plant site area]134,000m²[Building area]76,000m²[Number of employees]633 persons[Location]1-2 Utari, Shirotori-cho, Toyokawa City,<br/>Aichi Prefecture

#### <Efforts for Communication Activities, etc.>

## • Cooperation to Environmental Activities on "Cleanup Days in Toyokawa City"

On cleanup days in Toyokawa City in May and September, the plant employees cooperated for environmental cleanup activities. About 40 employees participated in the each of the cleanup events by picking up trash around the plant.



#### Voluntary Cleanup around the Plant

Employees conducted cleanup activities around the plant from July to December and in March. They cut the grass or picked up trash mainly in street gutters and roads to make the look of the area beautiful.



#### Traffic Safety Guidance Activities

Traffic safety guidance and crossing guard activities were performed on surrounding public streets by managerial staff on the 10th, 20th and 30th of every month. Every employee's observance of safety driving rules was carefully checked, and any inadequacies were pointed out. Also, we cooperated with Japan Traffic Safety Association by participating in the prefectural traffic safety campaign through street activities.



#### <Environment Data>

#### <Water Quality Data (at drain outlets)>

Items	Regulation values	Results	Averages
pН	5.8 - 8.6	6.6 - 7.3	6.9
BOD	25	1.3 - 4.9	3.1
SS	30	2.1 - 3.3	2.9
<b>Oil content</b>	5	0.5 - 1.5	0.8
Lead	0.1	0.01 - 0.02	0.01
Total chrome	2	0.1	0.1
Hexavalent chromium	0.5	0.01	0.01
COD (total amount)	27.51	0.00 - 4.47	1.02
Total nitrogen (total amount)	19.45	0.00 - 4.05	1.56
Total phosphorous (total amount)	2.57	0.00 - 0.98	0.28
Zinc	2	0.10 - 0.28	0.14

#### <Air Quality Data (at exhaust outlets)>

Substances	Facilities	Regulation values	Results	Averages
	Boiler 1	—	54 - 75	65
	Absorption type cooling and heating machine 1	<sup>1</sup> 150 56 - 83		70
NOX	Boiler 2	—		
	Drying furnace 1			—
	Drying furnace 2	—	—	—
	Boiler 1	—	—	—
	Absorption type cooling and heating machine 1	0.3	—	_
Particulates	Boiler 2	0.3	—	_
	Drying furnace 1	0.4	0.01	0.01
	Drying furnace 2	0.4	0.01	0.01

Unit: kg/year

#### <PRTR Target Substances (accumulated values calculated according to PRTR Law)>

Sub-Pollutants Transfer Recycled Decomposition Product Substance names Amount\* stance Sewerage Waste Landfill amount disposal inclusion Air Rivers Soil No. Ethyl benzene 53 18,000 11,000 0 0 0 1,600 0 3,800 1,700 630 13,000 0 0 2,000 80 Xylene 26,000 0 0 4,500 4,200 2,700 Hexavalent chromium 88 800 0 0.8 0 0 5.6 0 0 0 800 compounds 296 1, 2, 4 - trimetyl benzene 7,800 2,900 0 0 210 0 1,200 2,000 1,400 0 297 1, 3, 5 - trimetyl benzene 2,700 1,700 0 0 0 180 0 680 230 0 6,000 300 Toluene 76,000 39,000 0 0 0 0 15,000 12,000 4,500 392 Normal-hexane 3,800 31 0 0 0 0 0 0 2,000 1,700 0 340 300 400 Benzene 2.9 0 0 0 0 650 0

\* Since the calculation was made with two effective digits, the amount may not be consistent with the total of the right columns (Discharge, Transfer, Recycled, Incineration disposal, and Products).



#### Osuka Plant



[Operations]

[Plant site area]151,000 m²[Building area]55,000 m²[Number of employees]450 persons[Location]6333 Nishi

Casting and machining of parts for motorcycles, automobiles, and outboard engines 151,000 m<sup>2</sup> 55,000 m<sup>2</sup> 450 persons 6333 Nishi Ohbuchi, Kakegawa City, Shizuoka Prefecture

## <Efforts for Communication Activities, etc.> Cleanup around the Plant

For the purpose of maintaining the clean environment in surrounding areas, the plant's employees perform cleanup activity around the plant. In fiscal 2010, we cleaned streets around the plant once a month, and conducted a wide-area cleanup twice a year. We will continue to promote environmental activities to completely eliminate trash also in fiscal 2011.



#### Deepening Exchange with Local Residents

Every year we hold social gatherings and plant tour by inviting members of local residents' association once a year. We had this opportunity in March in fiscal 2010, and mutually exchanged information with seven members of local residents' association.



#### Traffic Safety Guidance

Safety guidance activities were carried out once a month in the plant site in order to improve traffic manners of employees. Also, these activities were conducted outside the plant four times a year.

#### Cleanup around Mikumano Shrine

After the Mikumano Shrine Big Festival, we performed the cleanup activity around the shrine every year. In April 2010, we received a letter of appreciation for this activity from Yokosuka Festival Group, Osuka Branch of Kakegawa Tourist Guide Co., and Enshu Yokosuka Club at an opening ceremony of "Kakegawa South Tourist Information Center" in Plaza Osuka, a municipal gallery.



#### <Environment Data>

#### <Water Quality Data (at drain outlets)>

Items	Regulation values	Results	Averages
pН	5.8 - 8.6	6.9 - 7.6	7.3
BOD	10/15	0.3 - 6.8	2.3
SS	10/15	0.0 - 8.0	2.2
<b>Oil content</b>	2	0.05 - 0.9	0.3
Lead	0.1	Under 0.0005 - 0.069	0.007
Chrome	2	Under 0.1	Under 0.1
Total nitrogen	60/120	1.5 - 5.5	3.1
Total phosphorous	8/16	0.09 - 0.51	0.24
Zinc	1	Under 0.1 - 0.1	Under 0.1

#### <Air Quality Data (at exhaust outlets)>

Substances	nces Facilities		Results	Averages
	Cast iron melting furnace	0.1	Under 0.01	Under 0.01
Particulates	Aluminum melting furnace	0.2	0.0~Under 0.01	Under 0.01
Fatticulates	Aluminum melting & holding furnace	0.2	Under 0.01	Under 0.01
	Aluminum melting furnace	10	Under 1.0	Under 1.0
Chlorine	Aluminum melting & holding furnace	10	Under 1.0	Under 1.0
Il adapted as a	Aluminum melting furnace	20	Under 5.0	Under 5.0
chloride	Aluminum melting & holding furnace	20	Under 5.0	Under 5.0
Fluorine &	Aluminum melting furnace	1	Under 0.3	Under 0.3
Hydrogen fluoride	Aluminum melting & holding furnace	1	Under 0.3	Under 0.3

#### <PRTR Target Substances (accumulated values calculated according to PRTR Law)>

Unit: kg/year

Sub-	Sub-		Pollu	tants		Tran	sfer	r Bocyclod		Decomposition	Droduct
stance No.	Substance names	Amount*	Air	Rivers	Sewerage	Soil	Waste	Landfill	amount	disposal	inclusion
80	Xylene	3,600	2,100	0	0	0	0	0	650	850	0
300	Toluene	4,900	2,800	0	0	0	170	0	930	1,000	0
321	Vanadium compounds	1,300	0	0	0	0	25	0	0	0	1,200
412	Manganese and its compounds	170,000	0	0	0	0	3,300	0	0	0	160,000
453	Molybdenum and its compounds	2,300	0	0	0	0	140	0	0	0	2,100

\* Since the calculation was made with two effective digits, the amount may not be consistent with the total of the right columns (Discharge, Transfer, Recycled, Incineration disposal, and Products).



#### **Domestic Manufacturing Subsidiaries**

#### Suzuki Hamamatsu Auto Parts Mfg. Co., Ltd.

[Operations] Machining of automobile parts, Die-casting and machining [Location] 7-3 Minami Hiramatsu, Iwata City, Shizuoka Prefecture

#### <Water Quality Data (at drain outlets)>

Items	Regulation values	Results	Averages
рН	5.8 - 8.6	6.9 - 7.4	7.2
<b>BOD</b> 20/25		1.0 - 2.9	1.3
SS	40/50	2.0 - 2.4	2.0
<b>Oil content</b>	5	0.5 - 1.3	0.6
Total nitrogen	60/120	2.0 - 2.4         2.0           0.5 - 1.3         0.6           1.4 - 9.7         4.9	
Zinc	2	0.05 - 0.29	0.14

#### <Air Quality Data (at exhaust outlets)>

Substances	Facilities	Regulation values	Results	Averages
NOx	Aluminum melting furnace	15	Under 1.0	Under 1.0
Particulates	Aluminum melting furnace	0.075	Under 0.02	Under 0.02
Chlorine	Aluminum melting furnace	30	Under 0.7	Under 0.7
Hydrogen chloride	Aluminum melting furnace	80	Under 0.6	Under 0.6
Fluorine & Hydrogen fluoride	Aluminum melting furnace	3	Under 0.7	Under 0.7

#### <PRTR Target Substances (accumulated values calculated according to PRTR Law)>

Unit: kg/year

Sub-	Sub-		Pollu	Itants Transfer			Pocyclod	cled Decomposition	Product		
stance No.	Substance names	Amount*	Air	Rivers	Sewerage	Soil	Waste	Landfill	amount	disposal	inclusion
300	Toluene	138	138	0	0	0	0	0	0	0	0
333	Hydrazine	20	0	0	0	0	20	0	0	0	0

\* Since the calculation was made with two effective digits, the amount may not be consistent with the total of the right columns (Discharge, Transfer, Recycled, Incineration disposal, and Products).

#### Suzuki Seimitsu Corporation

[Operations] Casting of automobile parts, Heat treatment and gear-cutting [Location] 500 Inoya, Inasa-cho, Kita-ku, Hamamatsu City, Shizuoka Prefecture

#### <Water Quality Data (at drain outlets)> Regulation

values

5.8 - 8.6

15

20

5

60/120

8/16

1

Items

pН

BOD

SS **Oil content** 

Total nitrogen Total

phosphorous

Zinc

#### <Air Quality Data (at exhaust outlets)>

Results	Averages	Substances	Facilities	Regulation values	Results	Averages
6.7 - 7.7	7.3		Continuous carburizing furnace	180	45 - 49	48.2
1.0 - 12	5.5	NOx	Annealing furnace	180	48 - 49	48.8
0.5 - 5	1.8		Water cooling and heating machine	150	42 - 63	51.2
0.5 - 2.4	2.2		Continuous carburizing furnace	17.5	0.08 - 0.09	0.09
1.5 - 26	13		Annealing furnace	17.5	0.08	0.08
0 04 - 0 07	0.06	(K VALUE)	Water cooling and heating machine	17.5	0.07 - 0.16	0.12
0.04 0.07	0.00		Continuous carburizing furnace	0.2	0.01	0.01
0.06 - 0.47	0.13	Particulates	Annealing furnace	0.2	0.01	0.01
			Water cooling and heating machine	0.1	0.01	0.01

#### <PRTR Target Substances (accumulated values calculated according to PRTR Law)>

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	Sinte ruiget oubstances (accountance and accounting to river curry of the kgystar										
Sub-			Pollu	tants		Tran	sfer		Pervoled	Decomnosition	Product
stance No.	Substance names	Amount*	Air	Rivers	Sewerage	Soil	Waste	Landfill	amount	disposal	inclusion
1	Zinc compound (water-soluble)	1,618.8	363.7	0	0	0	1,255.1	0	0	0	0
30	Linear alkyl benzene sulfonate	142.3	28.4	0	0	0	113.7	0	0	0	0.2
80	Xylene	54.8	5.5	0	0	0	49.3	0	0	0	0
186	Dichloromethane	126.0	25.1	0	0	0	100.7	0	0	0	0.2
188	N, N, dicyclohexylamine	1,411.2	282.2	0	0	0	1,129.0	0	0	0	0
296	1, 2, 4 - trimetyl benzene	153.6	15.4	0	0	0	0	0	0	0	138.2
412	Manganese and its compounds	557.2	111.4	0	0	0	445.7	0	0	0	0.1
447	Methylenebis (4,1-cyclohexylene) diisocyanate	240.0	24.0	0	0	0	0	0	0	0	216.0
453	Molybdenum and its compounds	66.1	6.6	0	0	0	59.5	0	0	0	0
460	Tritolyl phosphate	692.0	138.4	0	0	0	519.0	0	0	0	34.6

\* Since the calculation was made with two effective digits, the amount may not be consistent with the total of the right columns (Discharge, Transfer, Recycled, Incineration disposal, and Products)



#### Suzuki Akita Auto Parts Mfg. Co., Ltd.

[Operations] [Location]

Casting and machining of automobile parts 192-1 Ienohigashi, Hamaikawa, Ikawa Town, Minamiakita County, Akita Prefecture

#### <Water Quality Data (at drain outlets)>

Items	Regulation values	Results	Averages
рН	6.0 - 8.5	6.9 - 7.4	7.2
BOD	20	2.5 - 14.8	6.8
SS	30	3.9 - 20.2	12.6
<b>Oil content</b>	4	0.5 - 1.9	0.9
Total nitrogen	60/120	2.0 - 7.6	4.8
Total phosphorous	8/16	0.11 - 0.36	0.23
Zinc	2	0.05 - 0.58	0.26

#### <Air Quality Data (at exhaust outlets)>

Substances	Facilities	Regulation values	Results	Averages
NOx	Boiler	180	51 - 87	69
SOx (K VALUE)	Boiler	0.26	Under 0.01	Under 0.01
Particulates	Boiler	0.3	Under 0.01	Under 0.01

Unit: kg/year

0

0

0

0

0

#### <PRTR Target Substances (accumulated values calculated according to PRTR Law)>

Sub-Pollutants Transfer Decomposition Recycled Product Amount\* stance Substance names Air Rivers Sewerage Soil Waste Landfill amount disposal inclusion No. Zinc compound (water-soluble) 2,829 0 0 0 0 0 2,829 0 0 1 71 Ferric chlorides 1,075 0 0 0 0 0 0 1,075 0 80 Xylene 1,747 80 0 0 0 0 0 1,667 0 188 N, N, dicyclohexylamine 1,352 0 0 0 0 0 0 1,352 0 296 1, 2, 4 - trimetyl benzene 2,347 20 0 0 0 0 0 0 2.327

\* Since the calculation was made with two effective digits, the amount may not be consistent with the total of the right columns (Discharge, Transfer, Recycled, Incineration disposal, and Products).

#### Enshu Seiko Co., Ltd.

[Operations] Machining of automobile parts [Location] 1246-1 Yamahigashi, Tenryu-ku, Hamamatsu City, Shizuoka Prefecture

#### <Water Quality Data (at drain outlets)>

Items	Regulation values	Results	Averages
pН	<b>pH</b> 6.5 - 8.2		7.3
BOD	<b>BOD</b> 10		6.0
COD	35	3.4 - 21.0	10.5
SS	15	1.0 - 2.0	1.8
<b>Oil content</b>	3	0.5 - 1.6	1
Zinc	2	0.05 - 0.08	0.05
Chrome	2	0.05 - 0.1	0.06

#### <Air Quality Data (at exhaust outlets)>

Substances	Facilities	Regulation values	Results	Averages
Hydrogen chloride	Aluminum central melting furnace	80	Under 5.0	Under 5.0
Chlorine	Aluminum central melting furnace	30	Under 1.0	Under 1.0
Fluorine compound	Aluminum central melting furnace	3	Under 1.0	Under 1.0

#### <PRTR Target Substances (accumulated values calculated according to PRTR Law)>

PRTR Target Substances (accumulated values calculated according to PRTR Law)> Unit: kp											
Sub-		_	Pollu	Pollutants Transfer				Recycled	Decomnosition	Product	
stance No.	Substance names	Amount*	Air	Rivers	Sewerage	Soil	Waste	Landfill	amount	disposal	inclusion
80	Xylene	1,175	972	0	0	0	203	0	0	0	0
300	Toluene	972	547	0	0	0	425	0	0	0	0

\* Since the calculation was made with two effective digits, the amount may not be consistent with the total of the right columns (Discharge, Transfer, Recycled, Incineration disposal, and Products).



#### Snic Co., Ltd.

[Operations]Manufacture of automobile internal trim parts[Location]1403 Higashi Hiramatsu, Iwata City, Shizuoka Prefecture

#### <Water Quality Data (at drain outlets)>

Items	Regulation values	on 5         Results         Averages           6         7.1 - 7.5         7.3           1.0 - 6.1         3.6           2 - 5.6         3.8           0.5 - 1.6         1.1		
pН	5.8 - 8.6	7.1 - 7.5	7.3	
BOD	20	1.0 - 6.1	3.6	
SS	40	2 - 5.6	3.8	
Oil content	5	0.5 - 1.6	1.1	

<Air Quality Data (at exhaust outlets)>

No applicable facilities

#### <PRTR Target Substances (accumulated values calculated according to PRTR Law)>

Unit: kg/year

Sub-			Pollu	tants	Transfer			Pervoled	Decomposition	Product	
stance No.	Substance names	Amount*	Air	Rivers	Sewerage	Soil	Waste	Landfill	amount	disposal	inclusion
267	1, 3, 5 - trimetyl benzene	2,068	2,068	0	0	0	0	0	0	0	0
298	Tolylenediisocyanate	896,617	0	0	0	0	0	0	0	0	896,617
448	Methylenebis (4,1-phenylene)	82,937	0	0	0	0	400	0	0	0	82,537

\* Since the calculation was made with two effective digits, the amount may not be consistent with the total of the right columns (Discharge, Transfer, Recycled, Incineration disposal, and Products).

#### Hamamatsu Pipe Co., Ltd.

[Operations]Manufacturing of automobile pipe parts[Location]6-2 Minami Hiramatsu, Iwata City, Shizuoka Prefecture

#### <Water Quality Data (at drain outlets)>

#### <Air Quality Data (at exhaust outlets)>

Wastewater is transferred to Suzuki Hamamatsu Auto Parts MFG for treatment.

No applicable facilities

#### <PRTR Target Substances (accumulated values calculated according to PRTR Law)>

Unit: kg/year

Sub-			Pollu	tants	ts Transfer			Pacyclad	Decomposition	Product	
stance No.	Substance names	Amount*	Air	Rivers	Sewerage	Soil	Waste	Landfill	amount	disposal	inclusion
87	Chromium and trivalent chromium	16,697	167	0	0	0	0	0	417	0	16,113
308	Nickel	6,255	63	0	0	0	0	0	156	0	6,036
412	Manganese and its	1,912	19	0	0	0	0	0	48	0	1,845

\* Since the calculation was made with two effective digits, the amount may not be consistent with the total of the right columns (Discharge, Transfer, Recycled, Incineration disposal, and Products).


## Suzuki Auto Parts Toyama Mfg. Co., Ltd.

[Operations]Machining of automobile parts[Location]3200 Mizushima, Oyabe City, Toyama Prefecture

<Water Quality Data (at drain outlets)>

Items	Regulation values	Results	Averages	
pН	6 - 8	6.9 - 7.8	7.3	
BOD	15	0.8 - 12.0	4.6	
SS	15	1.7 - 11.0	5.0	
Oil content	5	Under 0.5 - 2.5	0.8	
Lead	0.08	Under 0.005 - 0.03	Under 0.005	
Chrome	2	Under 0.1	Under 0.1	
Total nitrogen	120	0.5 - 7.7	2.8	
Total phosphorous	16	0.1 - 0.9	0.4	
Zinc	2	Under 0.1 - 0.2	Under 0.1	

## <Air Quality Data (at exhaust outlets)>

Substances	Facilities	Regulation values	Results	Averages
NOx	Boiler	150	28 - 100	66
SOx (K VALUE)	Boiler	17.5	0.03 - 0.16	0.11
Particulates	Boiler	0.3	0.0007 - 0.0045	0.002

## <PRTR Target Substances (accumulated values calculated according to PRTR Law)>

Unit: kg/year

Sub-		Pollutants			Transfer				Pecycled	Decomposition	Product	
stance No.	Substance names	Amount*	Air	Rivers	Sewerage	Soil	Waste	Landfill	amount	disposal	inclusion	
53	Ethyl benzene	1,400	1,400	0	0	0	0	0	0	0	0	
80	Xylene	3,400	3,400	0	0	0	0	0	0	0	0	
300	Toluene	1,800	1,800	0	0	0	0	0	0	0	0	
308	Nickel compounds	6,650	0	190	0	0	470	0	390	0	5,600	

\* Since the calculation was made with two effective digits, the amount may not be consistent with the total of the right columns (Discharge, Transfer, Recycled, Incineration disposal, and Products).

#### Suzuki Kasei Co., Ltd.

[Operations]	Manufacture of automobile internal trim parts
[Location]	5158-1 Hiraguchi, Hamakita-ku, Hamamatsu City, Shizuoka Prefecture

## <Water Quality Data (at drain outlets)>

No applicable facilities

## <Air Quality Data (at exhaust outlets)> No applicable facilities

## <PRTR Target Substances (accumulated values calculated according to PRTR Law)>

Unit: kg/year

Sub-			Pollu	tants		Tran	sfer		Pacyclad	Decomposition	Product
stance No.	Substance names	Amount*	Air	Rivers	Sewerage	Soil	Waste	Landfill	amount	disposal	inclusion
80	Xylene	3,400	3,400	0	0	0	0	0	0	0	0
300	Toluene	7,500	7,500	0	0	0	0	0	0	0	0

\* Since the calculation was made with two effective digits, the amount may not be consistent with the total of the right columns (Discharge, Transfer, Recycled, Incineration disposal, and Products).



## **Efforts by Domestic Non-manufacturing Group Companies**

Suzuki group companies value reliable relationship with customers and local societies, and hope to have good fellowship with them for many years in future. We promote communication activities by providing the information about products and services, and participating or cooperating in welfare supports or other events. Also, we put the focus on education for employees to assure customer satisfaction for products and services we provide.

## 01 Efforts for environment

### CO2 emission reduction activities



<Before turning off>

<After turning off>

**SUZUKI MOTOR SALES TOCHIGI INC.** Participated in "Light Down Campaign" on June 21 and July 7, 2010 <u>http://sj-tochigi.jp/</u> (Japanese only)

Forest Conservation Activities ..... Efforts by environmental master



**SUZUKI MOTOR SALES SHIMANE INC.** November 2010 Participated in forest conservation activities for "Forest Cultivation in Shimane with Business Enterprises Participated"

http://sj-shimane.jp/ (Japanese only)



SUZUKI MOTOR SALES TOKYO INC. Efforts for "Promotion of sale of ecofriendly vehicles" by the environment master http://suzuki-tokyo.co.jp/ (Japanese only)



## 02 With our Customers

**User seminars** 



SUZUKI MOTOR SALES WAKAYAMA INC. October 2010 "Eco-driving seminar" http://sj-wakayama.jp/ (Japanese only)



SUZUKI MOTOR SALES KAGAWA INC. October 2010 "Safe driving seminar for electric wheelchair" http://sj-kagawa.jp/ (Japanese only)

Cooperation to field researches and trips by



SUZUKI MOTOR SALES YAMAGATA INC. November 2010 "Fire pot demonstration" http://sj-yamagata.jp/ (Japanese only)

**User seminars**.



SUZUKI MOTOR SALES YAMAGATA INC. December 2010 "Airbag demonstration" http://sj-yamagata.jp/ (Japanese only)



SUZUKI MOTOR SALES KUMAMOTO INC. September 2010 Acceptance of "company tours" http://sj-kumamoto.jp/ (Japanese only)

## 03 With Our Employees

#### Employee education and training....



SUZUKI MOTOR SALES HOKKAIDO INC. August 2010 "Skill competition" http://sj-hokkaido.jp/ (Japanese only)



SUZUKI MOTOR SALES SHIMANE INC. September 2010 "Skill competition" http://sj-shimane.jp/ (Japanese only)



#### With Local Communities 04

**Cooperation to national and local governments** 



SUZUKI MARINE CO., LTD. October 2010 Cooperation to "Water rescue seminar in local government" http://suzukimarine.co.jp/ (Japanese only)



SUZUKI MARINE CO., LTD. November 2010 Cooperation to the "Maritime-related facility tour" led by Chubu District Transport Bureau of Ministry of Land, Infrastructure, Transport and Tourism http://suzukimarine.co.jp/ (Japanese only)



SUZUKI MOTOR SALES NAGASAKI INC. February 2011 Acceptance of students by the "internship system" http://sj-nagasaki.jp/ (Japanese only)



SUZUKI MOTOR SALES SAITAMA INC. Cooperation to "Baby station" by Saitama Prefecture http://sj-saitama.jp/ (Japanese only)

Implementation of events



SUZUKI MOTOR SALES TOKAI INC. Cooperation to "Street activities for promoting to fix seatbelts" http://sj-tokai.jp/ (Japanese only)



BELL ART CO., LTD. Cooperation to "traffic safety guidance activities" http://www.bellart.co.jp/ (Japanese only)

SUZUKI MOTOR SALES KINKI INC. "Car Life Style Contest" in March 2011 (Collaboration with HAL Osaka and Osaka Mode Gakuen) http://sj-kinki.jp/ (Japanese only)



## **Cleanup activities**.



SUZUKI MOTOR SALES OKINAWA INC. "Cleanup activities around the company" http://sj-okinawa.jp/ (Japanese only)



SUZUKI MOTOR SALES SHIMANE INC. May 2010 "Kirara Beach cleanup campaign (cleaning activities)" http://sj-shimane.jp/ (Japanese only)

Activities for welfare supports



SUZUKI MOTOR SALES CHIBA INC. "Eco cap collection activities" http://sj-chiba.jp/ (Japanese only)



**SUZUKI MOTOR SALES HOKURIKU INC.** "Eco cap collection activities" <u>http://sj-hokuriku.jp/</u> (Japanese only)



**SUZUKI MOTOR SALES HOKURIKU INC.** "Fund raising activities for guide dog training" <u>http://sj-hokuriku.jp/</u> (Japanese only)

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Special Topics Vp

Corporate Environmental Philosophy and CSR Responsibility

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Data

# A History of Suzuki's Environmental Protection Efforts

1970	Mar.	Demonstrated 10 units of CARRY VAN electric vehicles at the Osaka Expo.
1971	Jul.	Established an Environmental Protection Section in Facilities Group of Production Engineering Dept. to take environmental measures in our production processes.
1977	Apr.	Built the Suzuki Group Safety & Hygiene and Pollution Issues Council.
1978	Dec.	Developed the CARRY VAN electric vehicles.
1981	Dec.	Held "Energy Saving Symposium" with Machinery Industry Promotion Foundation (now Suzuki Foundation).
1989	Aug.	Established an Environmental Issue Council to promote company-wide environmental conservation activities.
1990	Mar.	Installed Freon collectors at domestic distributors to collect Freon contained in car air conditioner refrigerant for reuse.
1991	Dec.	Totally abolished the use of specific CFC (contained in polyurethane foamed components, such as seats).
	lan	Started displaying material names on resin parts.
	Jan.	Developed a continuously variable transmission (SCVT) which was installed in CULTUS Convertible.
1992	Oct.	Developed a natural gas-fueled scooter.
	Nov.	Established a Waste Countermeasure Group in Production Engineering Development to promote reduction and reuse of wastes.
	Dec.	Launched the sale of electric vehicles ALTO and EVERY.
	Mar.	Prepared an "Environmental Protective Activities Plan."
1993	Мау	Reorganized an Environment & Industrial Waste group by integrating the Environmental Protection Section and the Waste Countermeasure Group to enhance environmental protection activities.
	Dec.	Completed the replacement of Freon used in car air conditioner refrigerants.
	Jun.	Started collecting and recycling used bumpers replaced by dealers.
1994	Aug.	Installed a facility to recycle sludge contained in wastewater to reuse it as asphalt sheets.
	1.48.	Started reusing casting sand waste (generated at foundries) as cement materials.
1995	Jan.	Renewed the waste incinerator to reduce waste and reuse heat waste (steam).
	Aug.	Introduced co-generation facilities into Kosai Plant to promote energy saving activities.
	Apr.	Launched the sale of the electric power-assisted bicycle LOVE.
1996	Мау	Prepared the "Environmental Protective Activities Plan (follow-up version)."
	Dec.	Introduced co-generation facilities into Sagara Plant.
	Mar.	Developed a natural gas-fueled WAGON R.
1997	May	Greatly modified and sold electric vehicles ALTO and EVERY.
	Oct.	Won the Technical Innovation Award for our 4-stroke outboard motor at the Chicago Boat Show.
	Dec.	Issued a "Vehicle Disassembly Manual" and distributed it to distributors.
	Feb.	Introduced co-generation facilities into Osuka Plant.
		Prepared an "Initiative Voluntary Action Plan for the Recycling of Used Automobile."
	Apr.	MAGYAR SUZUKI (Hungary) obtained the ISO14001 certification.
1998	Jul.	Kosai Plant obtained the ISO14001 certification.
1000	Oct.	Launched the sale of a new mini vehicle equipped with a lean-burn engine which achieved 29.0 km/L fuel consumption in 10·15 mode.
		Won the Technical Innovation Award for our 4-stroke outboard motor at the Chicago Boat Show for the second consecutive year.
	Dec.	Developed an environmentally friendly pipe bending technology.
	Mar.	Developed a new catalyst for motorcycles and employed it in a scooter "LET'S II."
	May	Launched the sale of fuel-economy ALIO with "Sc lean-burn" CVI.
	Διισ	Launched the sale of a new model of EVERY electric vehicle
1000	Sept.	Osuka and Sagara plants obtained the ISO14001 certification.
		Launched the sale of ALTO equipped with Idling Stop System.
1999	Oct.	Won "The Best Concept Car" special award for Suzuki PU-3 COMMUTER at the Tokyo Motor Show.
		Fully changed the design of the electric power-assisted bicycle LOVE.
		MARUTI UDYOG (India) (currently: MARUTI SUZUKI INDIA LIMITED) obtained the ISO 14001 certification.
	Nov.	Launched the sale of ultrasonic compact washing machines "SUC-300H & 600H" that employ ultrasonic waves for washing instead of organic solvent.
	Dec.	Launched the sale of natural gas-fueled (CNG) EVERY.

Introduction Special Topics	Corporate Philosophy and CSR	Environmental Responsibility	Social Responsibility	Data	
A History of Suzuki's Environmental Protection Efforts				SUZUKI CSR REPOR	RT 2011

	Jan.	Developed a compact bumper crushing machine in-house.
-	Feb.	SUZUKI MOTOR ESPANA (Spain) obtained the ISO14001 certification.
	Jun.	CAMI AUTOMOTIVE (Canada) obtained the ISO14001 certification.
2000	Jul.	Won the "Logistic Prize" for the transportation package for "Senior Cars" (environmentally-friendly electric vehicles) at the Japan Packaging Contest.
	Oct.	Fully changed the design of the electric power-assisted bicycle LOVE.
	Nov.	Won the "World Star Prize" for the transportation package for "Senior Cars" (environmentally-friendly electric vehicles) at the World Packaging Contest.
	Dec.	Toyokawa Plant obtained the ISO14001 certification.
	Jan.	Totally abolished the use of lead (used in painting processes of domestic motorcycle and automobile plants).
	Mar.	Expanded the sale of the bumper crushing machine nationwide.
2001	Apr.	Established an Environmental Planning Group that handles environmental matters related to products, technology, manufacturing and logistics.
		Established an Environmental Committee (as an alternative to Environmental Issue Council) to enhance the environmental protection efforts.
	Aug.	Achieved the target of drastic reduction in land filled solid waste to almost zero.
	Oct.	Started mutual cooperation with GM in the fuel cell technology field.
0000	Jan.	(U.S.A) for our electric vehicle concept car "COVIE" at the Detroit Motor Show.
2002	Mar.	Launched the "loling Stop" campaign.
	Jul.	Put the direct-injection turbo engine which realized both low fuel consumption and high output power to practical use for the first time in mini cars.
	Jan.	Announced a hybrid engine car "TWIN" for the first time in small sized passenger cars.
-		Announced a new concept energy-saving scooter "CHUINORI."
		Takatauka alaat abtained the ISO14001 certification
2003	Mar.	Installed a wind driven newer generating facility at lassa Training Center
	Ind	Recame a member of IMDS (international material data system)
	Jui.	Issued a "Green Procurement Guideline "
	Sept.	Launched the sale of certified ultra low-emission vehicle
	Jan.	Iointly established Japan Auto Recycling Partnership and ART with other manufacturers
	Feb.	Installed 2 units of wind-driven power generating facility at Kosai Plant.
		Announced the motorcycle recycling fees.
2004	Jul.	Announced the end-of-life automobile recycling fees.
		Obtained the approval of Japan's first 70MPa compressed hydrogen storage system for fuel cell vehicles.
	Aug.	Launched the sale of a car sharing-dedicated MR WAGON car sharing system
	Jul.	Developed "Hyper Alumite" that has improved corrosion resistance and durability, with the anodized aluminum film smoothed on the aluminum material surface.
2005	Aug.	Participated in "Team Minus 6%".
	Oct.	Participated in the "FRP Boat Recycling System" promoted by the Japan Boating Industry Association and announced the recycling fees.
2006	Sept.	Developed "MIO," an electric wheelchair equipped with a fuel cell, and exhibited it at the International Home Care & Rehabilitation Exhibition.
2007	Oct.	Developed the fuel cell motorcycle "CROSSCAGE" and exhibited it at the Tokyo Motor Show.
	Nov.	Established Suzuki Environment Control Regulations.
2008	Jun.	Received the Minister's award for the newly developed fuel-cell electric vehicle "SX4-FCV."
	Jul.	Exhibited "SX4-FCV" at "Environmental Snowcase" neid in International Media Center for Hokkaido Toyako & Summit.
	Δnr	Set up Suzuki Plaza to introduce Suzuki's history and monozukuri (manufacturing know-now) to the public.
2009	Apr.	high-speed system realizing low price and low environmental impact.
	Sept.	trailers to double-deck freight trains. As a result, it received 'Golden Peacock Eco-Innovation Award'.
	Oct.	Cell Scooter" and exhibited them at the Tokyo Motor Show as reference exhibits.
2010	Мау	Infrastructure and Transport.
	Sept.	Electric scooter "e-Let's" was developed and the research for driving on public roads started for productization.
2011	Mar.	"Whole vehicle Type Approval" was acquired for the first time in the world as a fuel cell scooter

Data

# **Company Profile**

Company Name	SUZUKI MOTOR CORPORATION
Establishment	March 1920
Capital	138,014,760,000 yen (As of March 31, 2011)
Representative	Osamu Suzuki, Chairman & CEO (CEO & COO)
Number of employees	14,532 persons (As of March 31, 2011)

## Net sales

## Automobile Production



## Motorcycle Production



%Production in Japan:CBU+complete knocked-down(CKD)units.
%Overseas production:line-off units at overseas plants.