

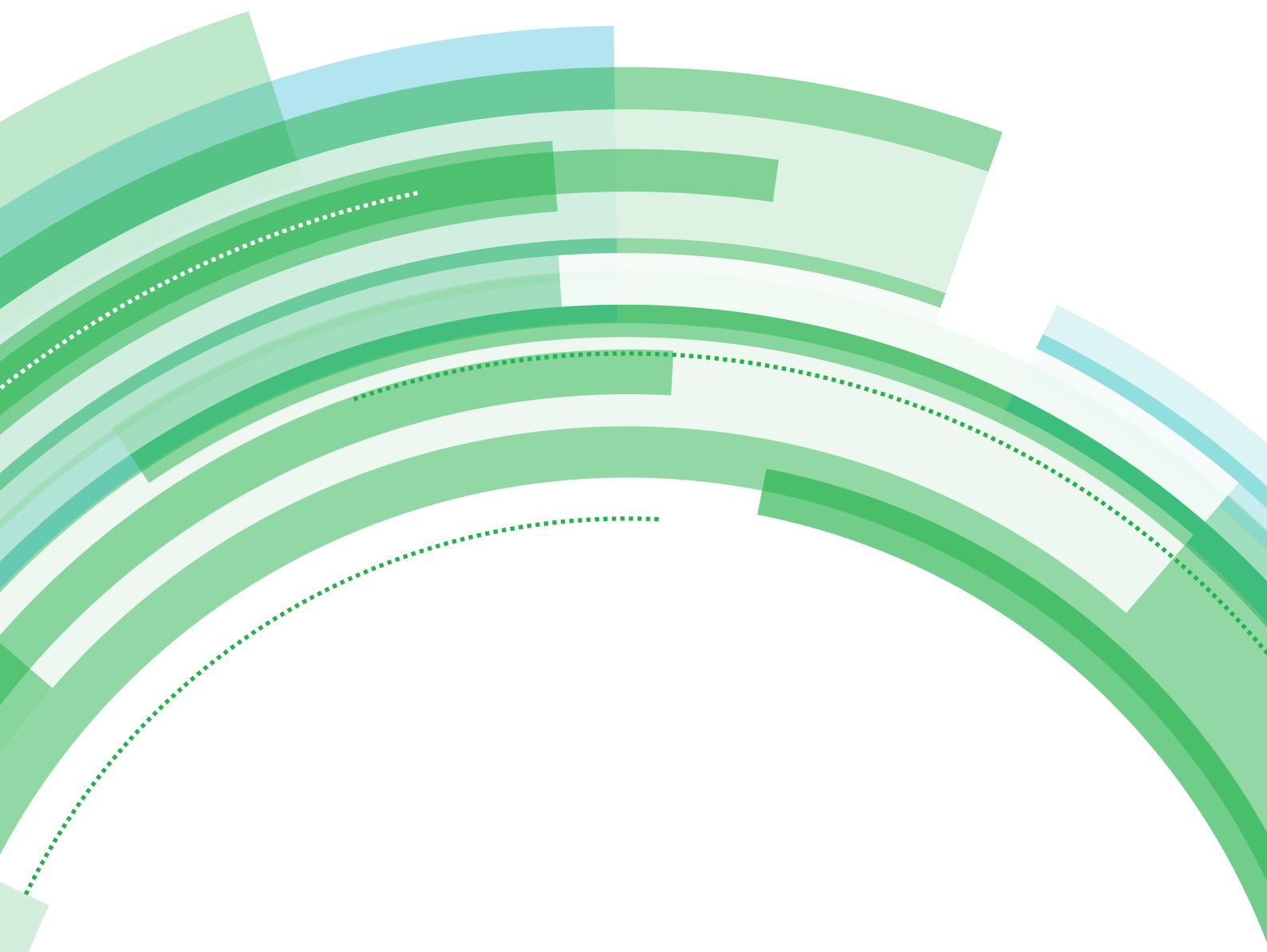


for a greener tomorrow

# Environment

Basic Policy and Approach to Environmental Management

# 2013



**MITSUBISHI  
ELECTRIC**

*Changes for the Better*

# Contents

Basic Policy and Approach to Environmental Management	1
Group Environmental Policy	2
Environmental Statement: Eco Changes	3
Environmental Vision 2021	6
Aiming to Become a Global Leading Green Company	10
Environmental Management	11
Aiming to Achieve Environmental Vision 2021	12
Environmental Management Structure	13
Environmental Audits	16
Training of Environmental Personnel	18
Environmental Risk Management	21
Environmental Plan	23
7th Environmental Plan (Fiscal 2013–2015)	24
Evolution of the Environmental Plan (1st through 6th)	28
Product Development	30
Basic Stance	31
Factor X	32
Procurement	33
Respecting Biodiversity	34
Group Biodiversity Action Guidelines	35
Mitsubishi Electric Outdoor Classroom	38
Living Creature Studies	40
Biodiversity-Conscious Procurement	42

# Contents

---

Guideline Comparison Tables	43
GRI Guideline Comparison Table	44
Japan MOE Guideline Comparison Table	57



# Environment – Basic Policy and Approach to Environmental Management

---

## ▣ Group Environmental Policy

Learn more about our environmental policy, which forms the basis of the Mitsubishi Electric Group's environmental management system.

## ▣ Environmental Statement: Eco Changes

Read about the Mitsubishi Electric Group's environmental statement, launched globally in July 2010.

## ▣ Environmental Vision 2021

Find out about Mitsubishi Electric's long-range vision, with specific targets to be achieved by the year 2021, the centennial of the company's founding.

## ▣ Aiming to Become a Global Leading Green Company

Read about the Mitsubishi Electric Group's efforts to become a global, leading green company through its energy- and resource-efficient manufacturing and environment-related businesses.

## ▣ Environmental Management

- ▣ Aiming to Achieve Environmental Vision 2021
- ▣ Environmental Management Structure
- ▣ Environmental Audits
- ▣ Training of Environmental Personnel
- ▣ Environmental Risk Management

## ▣ Environmental Plan

- ▣ 7th Environmental Plan (Fiscal 2013-2015)
- ▣ Evolution of the Environmental Plan (1st through 6th)

## ▣ Product Development

- ▣ Basic Stance
- ▣ Factor X

## ▣ Procurement

Minimizing environmental risks through the Green Accreditation system based on the Green Procurement Standards Guide.

## ▣ Respecting Biodiversity

- ▣ Group Biodiversity Action Guidelines
- ▣ Mitsubishi Electric Outdoor Classroom
- ▣ "Satoyama" Woodland Preservation Project \* To CSR Activities
- ▣ Living Creature Studies
- ▣ Biodiversity-Conscious Procurement

## **Mitsubishi Electric Group Environmental Policy**

---


The Mitsubishi Electric Group recognizes that our planet needs to be protected for future generations. Limiting our impact on the environment is thus one of our top management priorities. While respecting social norms, we shall endeavor in our business activities to realize a sustainable society through technology and action.

We will apply our technological expertise and new innovations to reduce the environmental impact of our business and to help preserve biodiversity. The Mitsubishi Electric Group will also strive to make positive contributions through the continuous improvement of our products and services, focusing on size and weight reduction, high performance, resource savings and energy efficiency.

We encourage employees and their families to take part in environmental activities with their communities, and thereby foster environmental awareness. As a responsible corporate citizen, we will also inform the public about our environmental initiatives to promote mutual understanding.

In addition to abiding by the law and respecting social norms, we shall remain sensitive to societal changes and make environmental consideration a permanent part of our activities.

As represented by our corporate statement "Changes for the Better", our ultimate aim is to improve the quality of people's lives while making positive contributions to the Earth's environment.

May 2010  
President & CEO  
Kenichiro Yamanishi  




## Environment – Environmental Statement: Eco Changes

---



Eco Changes is the Mitsubishi Electric Group's environmental statement, and expresses the Group's stance on environmental management. Through a wide range of businesses for homes, offices, factories, infrastructure and even outer space, we are helping contribute to the realization of a sustainable society. In line with the Mitsubishi Electric Group's corporate statement, "Changes for the Better," which reflects our drive to always seek improvement and make changes accordingly, Eco Changes represents our efforts to work together with our customers to change the global environment for the better.

Determining how to build a sustainable society with issues such as global warming, resource depletion and energy challenges in mind is a high priority. As a company, we pursue a balance of a comfortable society for people and an environmentally responsible modern civilization based on contributions to environmental concern and steady improvement. Eco Changes does not represent mere words or image-building; rather, through its business activities, the Mitsubishi

Electric Group will enact Eco Changes around the world in pursuit of environmental consideration and environmental contribution that are grounded in reality. Eco Changes was announced in June 2009 in Japan, in June 2010 overseas and in April 2012 in China.

### Eco Changes Logo Design Concept

The logo's vivid green sphere represents the world of changes for the better, from in the home to outer space. The "movement" design expresses the improvements made by employees, and the taking of immediate action along with our customers to bring positive changes to society.

### Environmental Changes for the Better

Stronger and more self-sustaining Eco Changes should be stimulated outside of Japan, especially in countries where fostering manufacturing businesses as well as infrastructure improvement are essential for economic growth while decreasing burden on the environment. As a company that experienced the challenge of balancing economic development with environmental protection during Japan's phenomenal industrialization from the mid 1950s to early 1970s, Mitsubishi Electric responded by innovating new technologies designed specifically to help foster sustainable business. With its accumulated knowhow to date and mission to make environmental contribution a priority in all countries in which the company operates, Mitsubishi Electric is aiming to contribute "Environmental Changes for the Better" to society while minimizing environmental impact.


Mitsubishi Electric established a sales company in India in September 2010, in Indonesia in December 2012 and in Turkey in January 2013, Mitsubishi Electric Turkey A.Ş. Eco Changes symbolizes our mission in those countries.



International exhibition in India highlights Mitsubishi Electric's Eco Changes concept for responsible manufacturing and business. Together with local employees the company declared the spirit of Eco Changes and celebrated the opening of a new sales outlet.

## News Releases

June 30, 2010

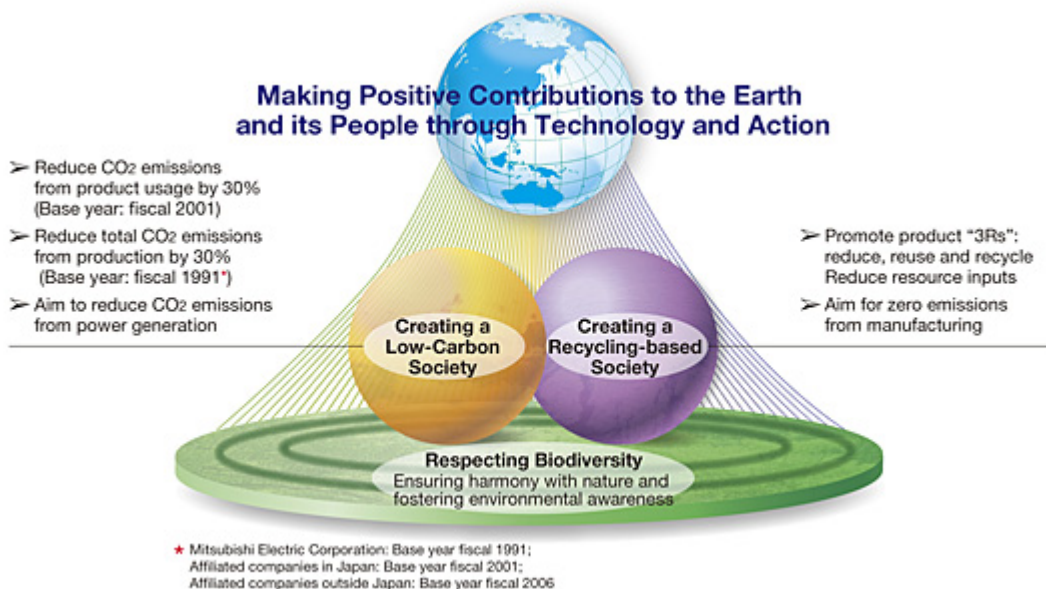
- ▶ Mitsubishi Electric Introduces "Eco Changes" Statement Outside Japan  (28KB)



Learn more about Eco Changes and the activities related to it.



Environmental Vision 2021 is the long-term environmental management vision of the Mitsubishi Electric Group. With the guideline of making positive contributions to the earth and its people through technology and action, the Company is working toward the realization of a sustainable society utilizing wide-ranging and sophisticated technologies as well as the promotion of proactive and ongoing actions by our employees. The Vision sets 2021 as its target year, coinciding with the 100th anniversary of Mitsubishi Electric's founding.



### Creating a Low-Carbon Society

---

To help create a low-carbon society, we will:

- Work to create and popularize innovative energy-saving products to achieve the goal of reducing CO<sub>2</sub> emissions from product usage by 30% compared to fiscal 2001
- Strive to reduce CO<sub>2</sub> emissions from product production by 30% (520,000 tons) across the entire Mitsubishi Electric Group as a prerequisite for sustainable growth
- Reduce CO<sub>2</sub> emissions from power generation and contribute to the creation of a low-carbon society by supplying the power industry with products and systems that do not emit CO<sub>2</sub>, including solar power and nuclear power systems

### Creating a Recycling-Based Society

---

To help create a recycling-based society, we will:

- Develop sustainable resource cycles by reducing waste output, reusing resources and recycling resources to give them new life
- Strive for zero waste output from production processes

### Respecting Biodiversity: Ensuring Harmony with Nature and Fostering Environmental Awareness

---

To help ensure harmony with nature and cultivate greater environmental awareness, we will:

- Strive to respect biodiversity in our business activities
- Teach employees the importance of maintaining harmony with nature by providing opportunities for nature observation and direct participation in conservation activities to inculcate autonomous actions for the sake of the environment

- Engage in nature conservation activities to restore damaged woodland environments

## Efforts Focused on the creation of a Low-Carbon Society

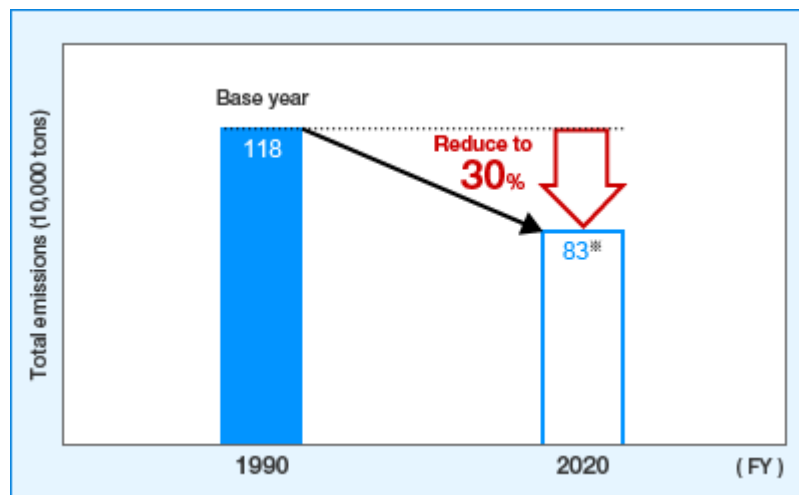
### Aiming to Reduce CO2 Emissions from Product Usage by 30%

Contributing to the creation of a low-carbon society through the provision of a wide variety of energy-saving products.



### Aiming to Reduce Total CO2 Emissions from Production by 30%

Raising the efficiency and performance of air conditioning, lighting and other utility equipment, as well as improving production lines to reduce the amount of CO2 emitted during production and contributing to the creation of a low-carbon society.

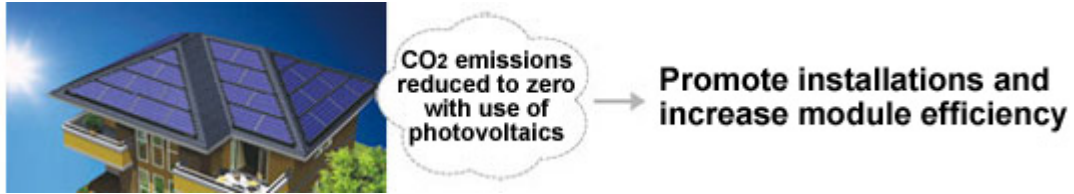


\* Mitsubishi Electric envisaged a fiscal 2021 total CO2 emissions target of 830,000 tons based on a CO2 emissions intensity of 0.33kg-CO2/kWh at the time its Environmental Vision 2021 was formulated. Taking into consideration changing electric power circumstances in Japan, total emissions were converted using an intensity of 0.42 at the time the 7th Environmental Plan was put in place. Under the framework of the 7th Environmental Plan, this also brings the target to 980,000 tons in the final fiscal year (2020).

### Helping to Reduce CO2 Emissions from Power Generation

We will help reduce CO2 emissions from power generation and contribute to the creation of a low-carbon society by supplying the power industry with products and systems that do not emit CO2,

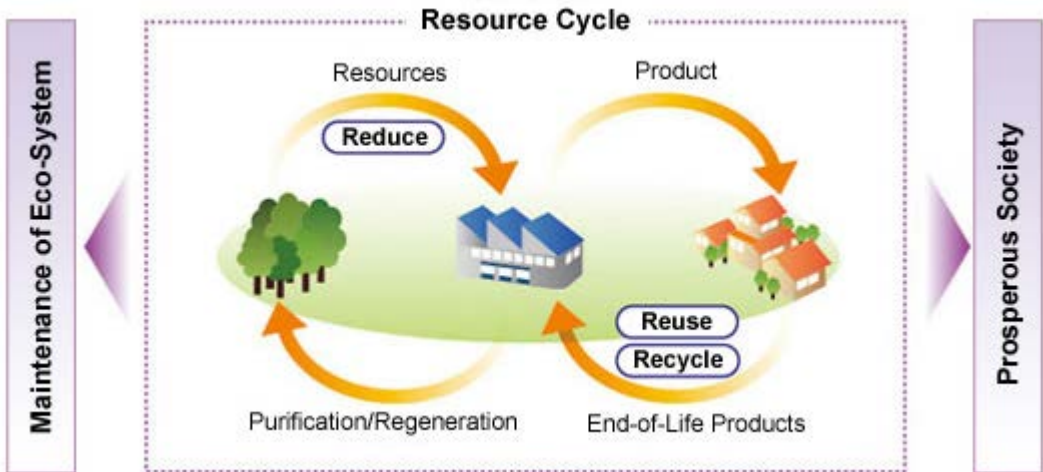
including photovoltaic power and nuclear power systems.



**Initiatives to Help Create a Recycling-Based Society**

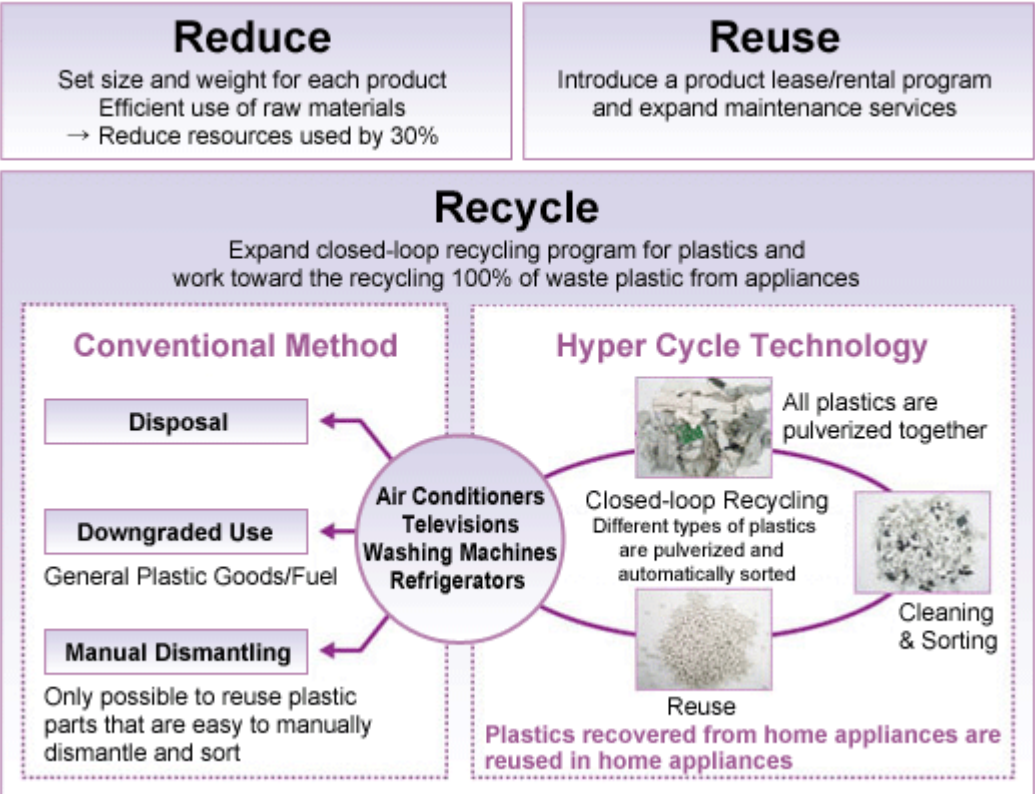
**Making Use of DfE and LCA Technologies to Promote the 3Rs**

Creating products that contribute to the 3Rs (reduce, reuse and recycle) throughout the product lifecycle.



**Zero Emissions (Eliminating Waste that Heads Directly to Landfill)**

Restricting the generation of waste and promoting the efficient reuse and resource reconversion of waste.



## Respecting Biodiversity : Ensuring Harmony with Nature and Fostering Environmental Awareness

### Mitsubishi Electric Outdoor Classroom and Leadership Training

---

We provide education for children and leadership training for 1,000 people in the promotion of nature observation and conservation.



### Forest Cultivation Activities and "Satoyama" Woodland Preservation Project

---

Forest cultivation activities aid in the creation of a low-carbon society, protects against natural disasters, and contributes to the preservation of biodiversity.

"Satoyama" Woodland Preservation Project involves local residents, employees, families, and nearly one million people from all over the world join forces to engage in this nature conservation activity.





## Environment – Aiming to Become a Global Leading Green Company

The Mitsubishi Electric Group established Environmental Vision 2021 to contribute to the development of a sustainable society, and is advancing initiatives to achieve a low-carbon, recycling-based society. While this Vision represents the company we aim to become by the 100th anniversary of our founding in 2021, our ultimate goal is to make lasting social contributions as a leading green company.

To this end, we are working to strengthen our corporate constitution and to contribute to society. Strengthening our corporate constitution refers to disciplining ourselves to use less energy and fewer resources in our manufacturing, and increasing production efficiency to the highest level possible. Specifically, this means reducing waste generated during production and thoroughly implementing the "3Rs" of resources: reduce, reuse and recycle.

Contributing to society refers to our commitment to ensure that some sort of environmental benefit or improvement is delivered when people use our products. As CO<sub>2</sub> emissions from product usage can be as high as 40 to 50 times the emissions from production, offering energy-saving products can make a tremendous contribution toward reducing CO<sub>2</sub> emissions in society as a whole. For this reason, we must always improve as well as optimize our technologies with a focus on creating and offering energy-efficient products. The same holds true for the development and diffusion of renewable energy systems and equipment, such as photovoltaic power generation.

Thinking about the future of the global environment and sincerely continuing these initiatives worldwide will make our actions more environmentally compatible and will make society more environmentally conscious. Eco Changes, our environmental statement, is what we must practice globally. By continuing to put Eco Changes into practice around the world, the Mitsubishi Electric Group aims to become a global leading green company.



► For details, please see the Environmental Vision 2021.

[Environmental Statement: Eco Changes](#)

[Environmental Vision 2021](#)

[Environment: From the President](#)

**▣ Aiming to Achieve  
Environmental Vision 2021**

Promoting environmental management to achieve high goals set for the future.

**▣ Environmental Management  
Structure**

Overview of the systems used to promote environmental management within the entire Mitsubishi Electric Group.

**▣ Environmental Audits**

Overview of the Mitsubishi Electric Group's multifaceted audit system, which combines internal environmental audits, compliance audits by external certification bodies and audits performed by the head office.

**▣ Training of Environmental  
Personnel**

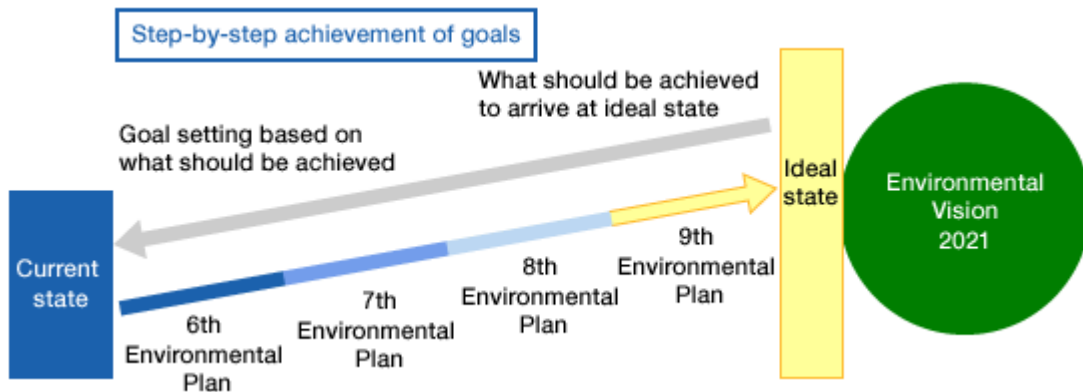
Report on the environmental education system of the Mitsubishi Electric Group, which aims to train key environmental personnel, and the progress of training activities.

**▣ Environmental Risk  
Management**

Report on initiatives to prevent environmental accidents, as well as on policies and conditions relating to responses to soil and water pollution, and to the management and disposal of PCBs.



## Environment – Aiming to Achieve Environmental Vision 2021



The Mitsubishi Electric Group conducts environmental management under an annual Environmental Implementation Plan, which in turn follows a broader Environmental Plan formulated every three years. Through a cycle of scrutinizing and summarizing achievements each year and reflecting those results in plans for the next year, the Group steadily achieves the goals of the Environmental Plan.

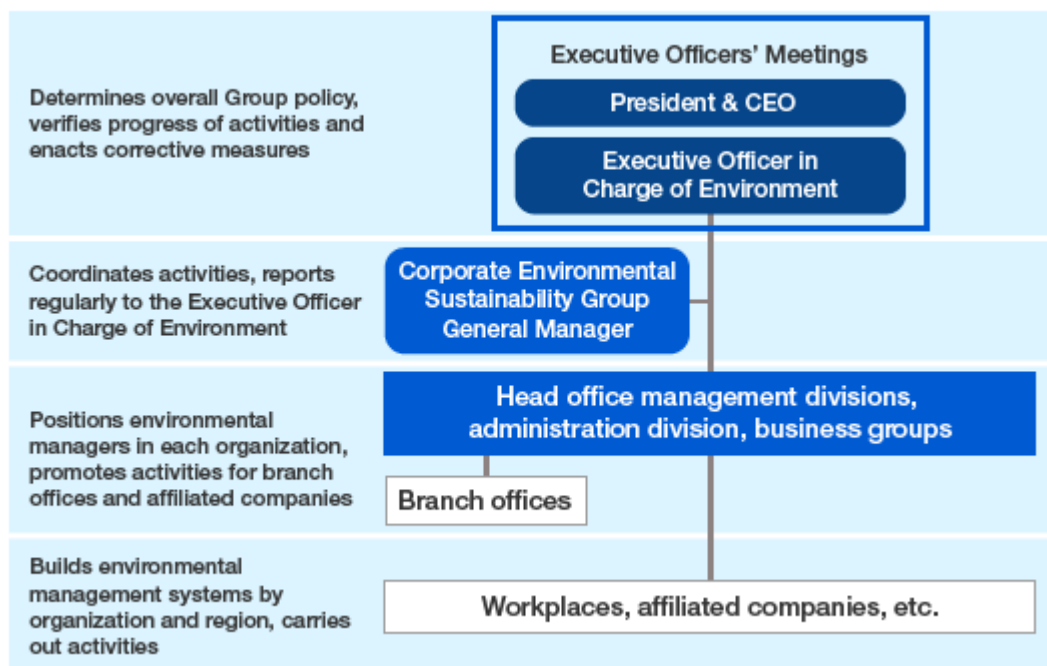
In addition, we recognize the need to establish clear and long-term goals for environmental management in response to today's calls for sustained efforts toward resolving environmental issues. In October 2007, we released our long-term vision, "Environmental Vision 2021," with its target year of 2021 marking the 100th year since the company's establishment. We have incorporated its content into environmental planning starting with our 6th Environmental Plan (fiscal 2010–2012), asking ourselves what measures we need to take to achieve our ideal vision for the future.

- [Environmental Report : Environmental Vision 2021](#)
- [Environmental Report: 7th Environmental Plan \(Fiscal 2013 - 2015\)](#)
- [Environmental Report : Evolution of the Environmental Plan](#)

## Structure to Promote Environmental Governance / Management

Mitsubishi Electric positions environmental governance as an essential component of corporate governance. The scope of our environmental governance extends to our company and our major subsidiaries and affiliates accounted for by the equity method (totaling 117 companies in Japan and 72 overseas, or 189 overall, as of March 31, 2013).

The Mitsubishi Electric Group's environmental management and organizational systems are essentially one and the same. Accordingly, all employees participate in environmental activities. Determination of environmental guidelines for the Group as a whole, as well as verification of the progress of environmental activities are undertaken during Executive Officers' Meetings chaired by the president. The overall responsibility for the Group's environmental management promotion structure lies with the Executive Officer in Charge of the Environment who is supported by the General Manager of the Corporate Environmental Sustainability Group. In addition, environmental managers are appointed to head office management divisions, administration division, business groups, branches, sites, affiliated companies, and the scope of each officer's responsibilities to management, as well as their responsibilities to oversee environmental plans and monitor the progress and level of environmental performance are clearly defined. In this way, every effort is being made to promote Group-wide environmental activities.



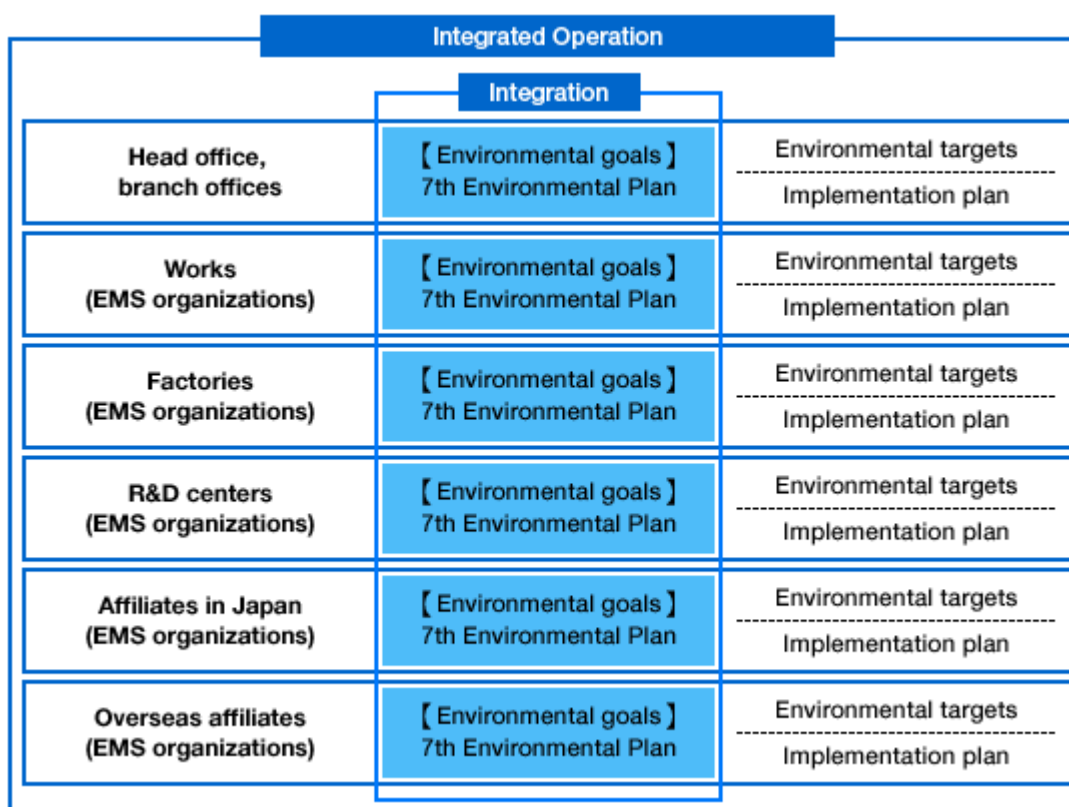


## Integrated Operation of Environmental Management System

In its 5th Environmental Plan (fiscal 2007–2009), the Mitsubishi Electric Group established a structure aiming for integrated Group-wide operation of its environmental management system (EMS) beginning from fiscal 2009.

Environmental management, an aspect of business management based on the Mitsubishi Electric Group's Environmental Policy, is implemented according to the requirements of ISO 14001 international standards. Each organization develops environmental goals and implementation plans by setting environmental objectives taken from targets of the Environmental Plan for each fiscal year (as of fiscal year 2013, the relevant plan is the 7th Environmental Plan). This will enable the entire Group's environmental management to be aligned without relying on the integrated authentication of a third party.

As a result of adopting this operational method, the Mitsubishi Electric Group is able to conduct comprehensive environmental activities while respecting each organization's culture and community basis. Each organization uses achievement targets for the year from the Environmental Plan as its environmental goals, which ensures that environmental management vectors are aligned and that the EMS of the Mitsubishi Electric Group is implemented in an integrated fashion, while allowing each organization to set specific environmental targets and implementation plans.



# Verification of Activity Results Using a Management Cycle

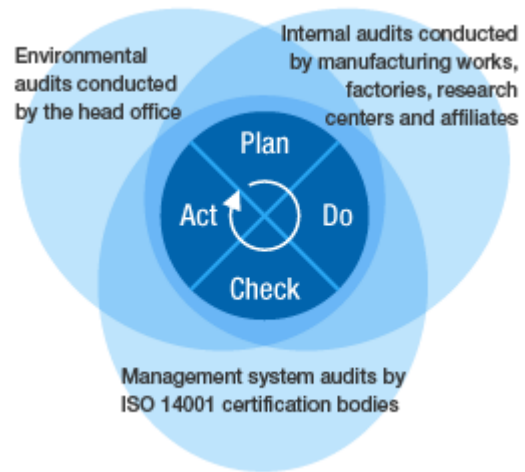
---

## Continual verification of activity results



### Three Types of Environmental Audits

The Mitsubishi Electric Group combines three types of audits to verify the environmental activities of each site using a multifaceted approach. The first type is environmental audits conducted by the head office on works, R&D centers and affiliated companies. The second is management system evaluations conducted by ISO certification bodies on ISO 14001 certified sites. The third is internal environmental audits conducted by the head office, works, R&D centers and affiliated companies themselves.



From within these three types, the internal environmental audits and environmental audits target a wide range of fields, including compliance with environmental laws, precautions against environmental accidents such as toxic substance leakages, and the implementation of environmental plans. Accordingly, properly conducted audits call for a high level of specialized knowledge and communication abilities. As such, we carry out ongoing education for the purpose of training and improving the skills of auditors. We also conduct cross-audits among sites, dispatch instructors to sites from the head office, draw up auditing guidelines, offer training courses over our intranet, and share relevant information across the Group. Through these three types of audits and the training of auditors who perform them, Mitsubishi Electric will continue to work to qualitatively improve our environmental management.

#### Overview of the Three Types of Environmental Audits

	Internal environmental audits	Environmental audits	Management system evaluations
Implementing body	Works, factories, R&D centers, affiliated companies	Head office	ISO certification bodies
Auditing Standards	<ul style="list-style-type: none"> <li>• Laws and regulations</li> <li>• ISO standards</li> <li>• Site-specific regulations</li> <li>• Progress on the Environmental Plan</li> </ul>	<ul style="list-style-type: none"> <li>• Laws and regulations</li> <li>• Company regulations related to the environment</li> <li>• Environmental Plan</li> </ul>	<ul style="list-style-type: none"> <li>• ISO standards</li> </ul>
Frequency	Once a year or once every half year	Every three years	Once a year

## Environmental Audits and Surveys by the Head Office

---



Environmental audits by the head office involve interviewing the management of our branches, works, R&D centers, and affiliated companies. These audits look into the implementation of the Environmental Plan on paper and on-site, covering areas that include the status of legal compliance and environmental risk management (including disaster prevention and safety measures), the use of internal environmental audits, the handling of chemical substances used in products and manufacturing processes, and the status of product assessments and green procurement.

The results of audits are reported to the President by the Executive Officer in Charge of Environment and prompt remedial measures are taken in the event non-conformance is discovered. The results of audits and case studies summarizing improvement measures are also conveyed throughout the Mitsubishi Electric Group via the Environmental Managers' Conference, aiding in improving the content of activities at all offices.

In fiscal 2013, we performed environmental audits and surveys at 96 sites (8 at our works, 10 at head office divisions, 5 at branches, 59 at affiliates in Japan (65 sites) and 8 at overseas affiliates), confirming compliance with environmental laws, risks associated with environment-related equipment and environmental response systems. We also took prompt remedial measures for any non-conformance discovered.

We carry out environmental surveys at our overseas affiliated manufacturing companies with the objective of confirming the progress under the environmental action plan, the implementation status of the environmental management system and the execution status of environmental management duties, and linking these to improvement activities. In fiscal 2013, we engaged in environmental surveys, identified issues and highlighted latent risk in order to improve operations at a total of eight sites in Thailand, China, Mexico and the Czech Republic.

### Targets of the 7th Environmental Plan (Fiscal 2013-2015) and Progress in Fiscal 2013

Training of Environmental Personnel		
Targets of the 7th Environmental Plan (fiscal 2013-2015)	Progress in fiscal 2013	Self-evaluation
Training key environmental personnel	Key environmental personnel training implemented at manufacturing/non-manufacturing sites in Japan and six manufacturing sites in Thailand	
Fostering environmental awareness in employees and coexistence with the local community and nature	Mitsubishi Electric Outdoor Classroom held 38 times at 31 areas; 47 Outdoor Classroom Leaders trained	

### Overview of Our Environmental Education Initiatives

The Mitsubishi Electric Group actively works to develop human resources for environmental activities and foster environmental awareness in all of its employees, as part of its broader effort to strengthen the foundation underpinning the Group's environmental management.

### Environmental Education System

Subset	Types				
	Environmental awareness	Environmental management	Practical environmental controls (management)	Practical environmental controls (specialty fields)	ISO14001 environmental audits
General Education	New Employee Orientation/ Newly-appointed Manager Training/ Overseas Assignee Orientation Other seminars for employees, etc.				ISO14001 e-learning
Specialty Education	Training Course for Mitsubishi Electric Outdoor Classroom Leaders		Key Environmental Personnel Training	Compliance and Risk Management	EMS Internal Auditor Training
				Design for Environment	

### Key Environmental Personnel Training

Since fiscal 2005, Mitsubishi Electric has held Key Environmental Personnel Training which seeks to comprehensively develop human resources that will drive environmental management activities forward at its factories.

This training is implemented by combining basic lectures on environmental management, which cover information on environmental laws and key points in practice, with hands-on training such as fieldwork at related facilities onsite at works and group debates on a given topic.

The training also targets all manufacturing and non-manufacturing affiliated companies, contributing to the enhancement of environmental management practices across the entire Mitsubishi Electric Group.

In fiscal 2013, we implemented overseas key environmental personnel training at six manufacturing sites in Thailand. Lectures on waste management and factory energy conservation were given and onsite training was carried out. Moving forward, we plan to continue providing training, taking into account local regulations and social trends.



Key environmental personnel training:  
Training in risk communication



Overseas key environmental personnel training: A factory tour in Thailand

## **Holding Mitsubishi Electric Outdoor Classrooms and Training Outdoor Classroom Leaders**

---

The Mitsubishi Electric Outdoor Classroom is one means of fostering environmental awareness in order to preserve biodiversity, an important goal set forth in Environmental Vision 2021. The goal of this activity is to foster an ability to take action in changing the environment for the better. Natural settings such as forests, riversides, parks and beaches are used as a classroom. This experience aims to encourage all participants to consider their coexistence with nature and promotes the development of employees as leaders. In the 7th Environmental Plan (fiscal 2013-2015), we will continue to expand the locations in which the classrooms are held and train employees to be classroom leaders.

### **Mitsubishi Electric Achievements in Fiscal 2013**

The Mitsubishi Electric Outdoor Classroom was held in an additional three areas in fiscal 2013 compared to fiscal 2012, expanding the total to 31 areas. The classroom was held a total of 38 times. We worked together with local facilities and organizations such as kindergartens, foster care facilities, local governments and NPOs to strengthen a cooperative structure for the administration of the classroom. In terms of our cooperation with municipalities and NPOs, we have established a framework to receive guidance on classroom hosting in each area.

Leader training seminars for Outdoor Classroom leaders were held twice and 47 leaders were newly trained, bringing the total number of participants to 230. We hope to hold the Mitsubishi Electric Outdoor Classroom at every office (head office, branch office and works) by 2014. For this purpose, we will continue to focus efforts on leader development.

### **Affiliated Company Achievements in Fiscal 2013**

Affiliates in Japan embarked on the training of Outdoor Classroom leaders from fiscal 2011 and trained 10 new leaders in fiscal 2013. Mitsubishi Electric aims to continue the administration of the Outdoor Classroom in cooperation with affiliates in Japan.

Overseas affiliates introduced environmental awareness activities to each other and shared information at the annual Overseas Regional Conferences.



**High Frequency & Optical Device Works**

Held in conjunction with the Society for Nurturing Cherry Blossom Trees in Zugaike Park. Nature observations were carried out after taking part in work to protect the cherry trees. In response to requests, a Japanese crayfish fishing tournament was also held.



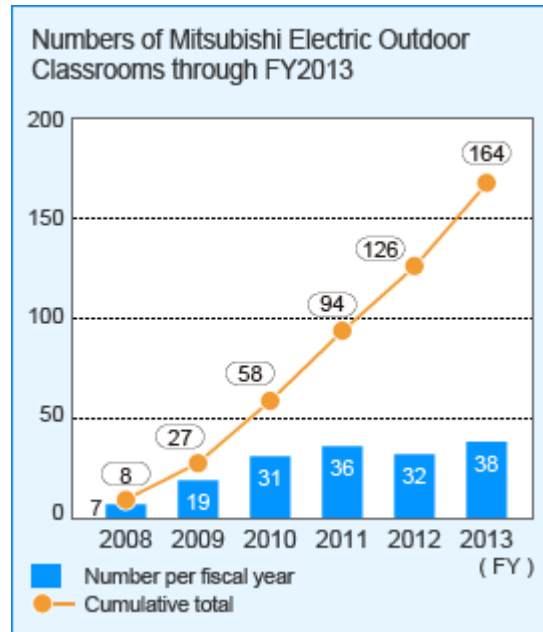
**Communication Network Center, Koriyama Plant**

Freshwater fish and amphibians from around the world were observed at a local freshwater aquarium. The participants learned that the creatures inhabiting the varied freshwater environments of rivers, lakes and swamps have diverse appearances and forms.



**Kanetsu Branch**

An observation of creatures in streams and woodland was held in a forest park making the most of local nature. Participants learned about the mechanisms for life that can be read from the leaves and bark of plants and the roles of insects and microbes in nature.





## **Prevention of Environmental Accidents**

---

### **Prevention of Environmental Accidents through Information Sharing and Facility Inspections**

The Mitsubishi Electric Group strives to prevent environmental accidents from occurring, such as water or soil pollution or leakages of substances that impact the environment.

To this end, we ensure that employees understand and are familiar with related regulations. When regulations are revised, we alter our internal rules accordingly and notify all employees. In the event of non-conformance that does not result in an accident, no matter how minor, we share the cause and work to prevent recurrence. In addition, facility inspections are periodically carried out at each Group site and measures are taken as necessary based on the results.

In fiscal 2013, managers and staff members involved in environmental management from all Mitsubishi Electric sites and affiliates in Japan participated in environmental management meetings held from August to October. The meetings, which 628 people took part in, were a means to share information on revisions to the Water Pollution Control Act and the Waste Management and Public Cleansing Act, together with recent cases of non-conformance and measures to prevent recurrence. In fiscal 2014, Mitsubishi Electric plans to hold briefings for production sites and offices with content tailored to the operations of each site.

### **Handling Groundwater and Soil Contamination**

Mitsubishi Electric conducts assessments of groundwater and soil based on a survey method pursuant to laws and regulations at the sites of the Company and its affiliates in Japan and overseas, including factories, other related companies and business locations, on such occasions as land use change. We also implement measures and take other steps as necessary in line with the status of contamination, as stated in internal regulations.

In fiscal 2013, we evaluated the findings and countermeasure proposals from groundwater and soil surveys accompanying 17 cases of changes in land use (13 at Mitsubishi Electric and 4 at affiliated companies) in Japan, and verified that an appropriate response was taken in all cases.

Moreover, for the 12 districts in which groundwater or soil contamination have been found in the past, we are carrying out ongoing remediation measures according to laws and regulations while continually reporting the results of monitoring to the appropriate authorities.

### **Appropriate Storage and Processing of PCBs**

At least once per year we inspect and check stored PCB waste and in-use devices that contain PCBs, at each site at which these are stored. We currently dispose of PCB waste in a systematic manner on the basis of a contract signed in fiscal 2007 with the Japan Environmental Safety Corporation (a fully owned government body that conducts PCB waste disposal under government supervision).

In fiscal 2013, we completed processing for 66 units. Based on the JESCO plan to conclude processing at all business sites by March 2015, we plan to increase the number of units processed to approximately 200 in fiscal 2014. Our affiliates in Japan are also moving ahead with processing in a systematic fashion.

Customers can determine whether they have any electrical devices that use PCBs and were manufactured by the Mitsubishi Electric Group by referring to a list posted on the Group website.



## Handling Transformers with Trace PCBs

With respect to the possibility of trace amounts of PCBs contaminating transformers and other devices, Mitsubishi Electric has investigated scenarios including the possibilities of contamination during the manufacturing process, contamination after delivery and contamination through insulating oil. However, unable to identify the causes, devices involved, or time of manufacture, our conclusion is that we cannot negate the possibility of trace PCB contamination in electrical devices that use electrical insulating oil and that were manufactured prior to 1989.

Regarding devices manufactured from 1990 onward, given the strengthening of quality control for insulating oil, we have determined that there has been no contamination by trace PCBs at time of product shipment. Together with ongoing quality control for insulating oil, we are working to provide technical information via our website, and are responding to individual inquiries via a customer service desk already in place.

Mitsubishi Electric participates in the PCB processing committee of The Japan Electrical Manufacturers' Association and cooperates in providing information as an industry group and investigating processing measures.

In fiscal 2011, we began treating oils containing PCBs (i.e., electrical insulating oil with traces of PCB) from among the trace PCB wastes that we retained at Minister of the Environment-authorized incineration facilities. Pursuant to the expansion of authorization by the Minister of the Environment for treatment facilities and treatable items, we plan to proceed with treatment of stored trace PCB wastes in fiscal 2014, as well.

**▣ 7th Environmental Plan (Fiscal 2013-2015)**

Learn more about our previous environmental plan, including its background and specific activities.

**▣ Evolution of the Environmental Plan (1st through 6th)**

Follow the evolution of our environmental plan, which is reformulated every three years.



# Environment – 7th Environmental Plan (Fiscal 2013–2015)

---

## Background to the Formulation

---

Since fiscal 1994, the Mitsubishi Electric Group has formulated a three-year environmental plan outlining specific activities and goals in an effort to improve its management of environmental affairs.

Beginning with the 6th Environmental Plan (FY2010–2012), goals have been established to realize the Group's long-term vision for environmental management called, "Environmental Vision 2021." The 7th Environmental Plan (FY2013–2015) continues this framework, and was formulated based on the results achieved and challenges experienced to date, as well as social demands for energy-saving products.

The main focus of the 7th Environmental Plan is to strengthen measures for both production and product usage as a means to expand the amount of contribution toward reducing CO<sub>2</sub> emissions.

### News Release

Apr 17, 2012

▶ Mitsubishi Electric Launches Seventh Environmental Plan

## Items and Main Indicators of the 7th Environmental Plan

---

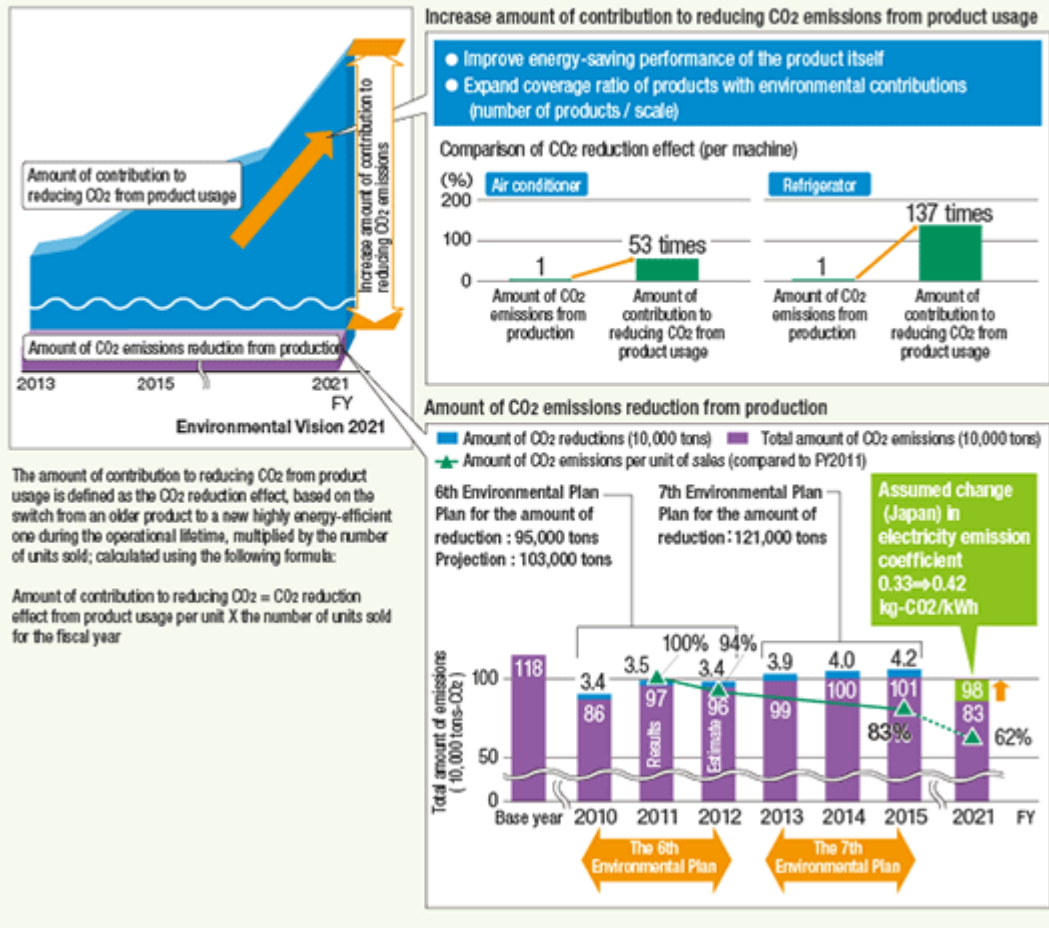
- ▶ 1. Initiatives toward Creating a Low-Carbon Society
- ▶ 2. Initiatives toward Creating a Recycling-Based Society
- ▶ 3. Strengthening Our Environmental Management Foundation and Expanding Environment-related Businesses

### 1. Initiatives Toward Creating a Low-Carbon Society

- Improve the energy-saving performance of products, and reduce CO<sub>2</sub> emissions by an average reduction rate of 27% in comparison to FY2001. (84 target products.)
- Improve the amount of CO<sub>2</sub> emissions per unit of sales from production to 83% in comparison to 2011. (Equivalent to 121,000 tons reduction in CO<sub>2</sub>.)
- Achieve a cumulative total of 14,100 kW in photovoltaic (PV) power generation for the entire Group in Japan by the end of 2015. (Install a further 6,400 kW of PV capacity.)
- Install a demand monitoring system at all of the Group's major sites (contract demand of 500 kW or more, with a group total of 68 sites) for centralized management of peak power usage, and promote energy conservation measures such as upgrading to highly efficient air conditioners in support of CO<sub>2</sub> reductions.
- Reduce non-CO<sub>2</sub> greenhouse gases (SF<sub>6</sub> PFC HFC\*) by 70% in comparison to FY2006. (CO<sub>2</sub> emission equivalent.)

\* SF<sub>6</sub>: sulfur hexafluoride; PFC: perfluorocarbons; HFC: hydrofluorocarbons

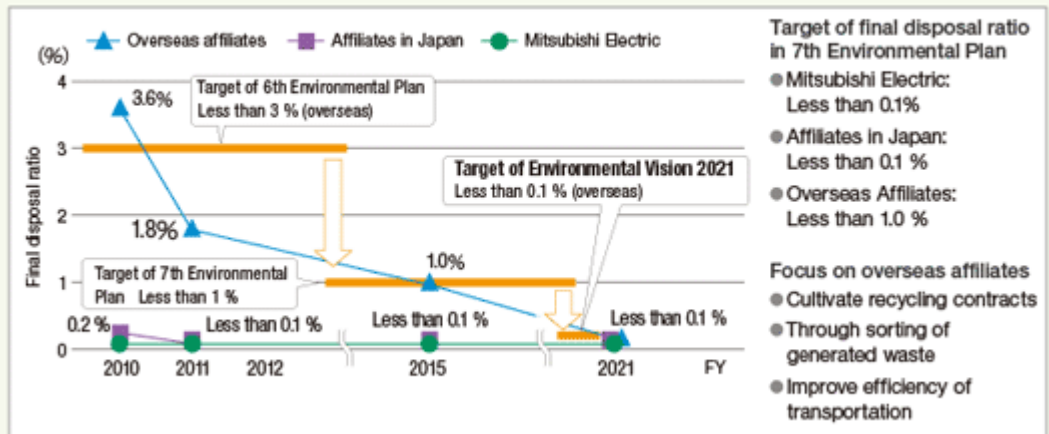
## Increase amount of contribution to reducing CO2 emissions from production and during product usage



## 2. Initiatives Toward Creating a Recycling-Based Society

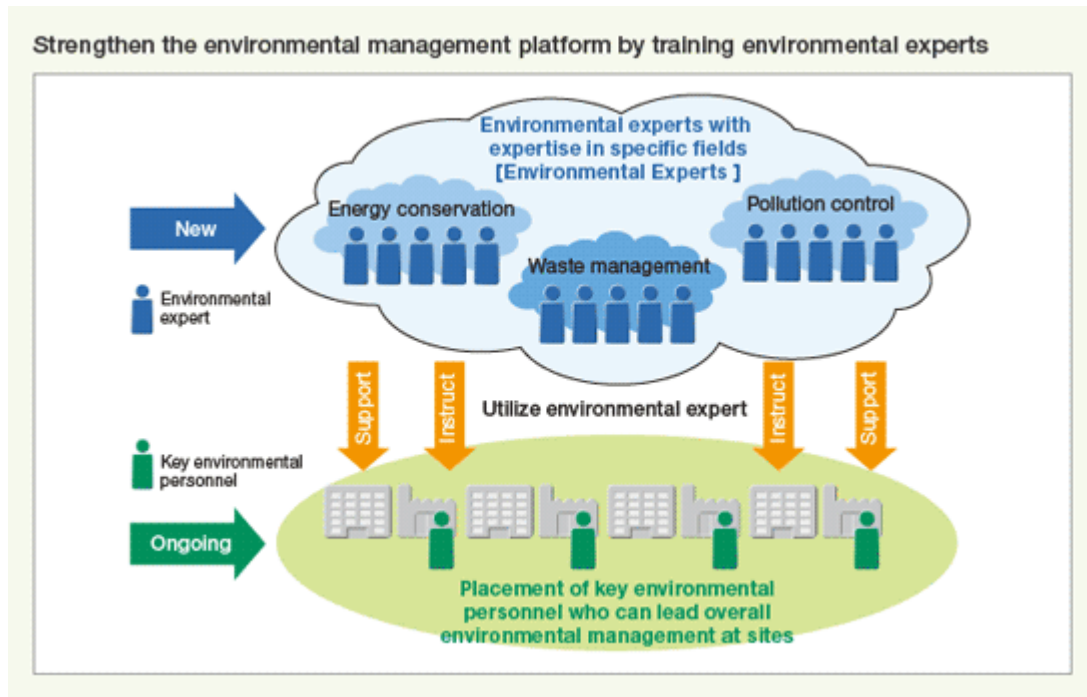
- Promote thorough analysis and separation of waste, and a reduction in the final disposal ratio at business sites. (Mitsubishi Electric: less than 0.1% (ongoing); affiliates in Japan: less than 0.1%; overseas affiliates: less than 1.0%.)
  - Reduce input of resources by 39% compared to FY2001 through producing smaller and lighter weight products.
  - Promote product 3Rs\* through recovery of rare earth magnets and by expanding applications for recycled materials.
- \*3R: Reduce (reducing waste generation), Reuse (re-utilization), and Recycle (turning waste into resources)

### Promote effective resource utilization at sites



### 3. Strengthening Our Environmental Management Foundation and Expanding Environment-related Businesses

- Cultivate "Environmental Experts" with specialized expertise in energy conservation, waste management, and pollution control, capable of conducting Group-wide environmental training sessions, and strengthen environmental management platforms; conduct nature conservation activities through collaboration with local communities, and roll such activities out globally.
- Enhance compliance with regulations on chemical substances used in products, such as Europe's RoHSII and REACH.
- Expand environment-related businesses globally by creating products with highly innovative environmental features including the use of more recycled resources or enhanced energy efficiency, in field such as smart grids and smart communities.



## 7th Environmental Plan

<b>1. Initiatives Toward Creating a Low-Carbon Society</b>
1.1 Contribution to reducing CO <sub>2</sub> emissions
(1) Reduce CO <sub>2</sub> emissions from product usage by improving product performance: average reduction rate for 84 products: 27%
(2) Increase amount of contribution to reducing CO <sub>2</sub> emissions from product usage
1.2 Reducing CO <sub>2</sub> from production: improve CO <sub>2</sub> emissions per unit of sales to 83% compared with fiscal 2011 (▲17%)
1.3 Reducing non-CO <sub>2</sub> greenhouse gases: 70% reduction compared with fiscal 2006 on a CO <sub>2</sub> equivalent basis
1.4 Participation in the low-carbon society action plan
<b>2. Initiatives Toward Creating a Recycling-Based Society</b>
2.1 Final disposal ratio: Mitsubishi Electric: Less than 0.1%, Affiliates in Japan: Less than 0.1%, Overseas Affiliates: Less than 1.0%
2.2 Reducing resource inputs: average reduction rate for 64 products: 39% (compared with fiscal 2001)
<b>3. Strengthening Our Environmental Management Foundation</b>
3.1 Compliance with environmental regulations
3.2 Prevention of environmental accidents
3.3 Reduction of environmental liabilities: PCB waste treatment, purification of groundwater and soil contamination
3.4 Training of environmental personnel
(1) Train key environmental personnel
(2) Foster environmental awareness and harmony with the community and nature
3.5 Publicity and advertising about environmental contribution
<b>4. Expanding Environment-Related Businesses</b>
4.1 Expansion of environment-related businesses
4.2 Creation of products with highly innovative environmental features: have each business unit select one or more products



## Environment – Evolution of the Environmental Plan (1st through 6th)

---

Approximately every three years since fiscal 1994, the Mitsubishi Electric Group has formulated an environmental plan with specific targets. During this period, we have progressively stepped up our environmental activities based on the degree to which the targets of each plan (1st through 5th) were achieved.

In line with Environmental Vision 2021, which was formulated in October 2007, we changed the manner in which plans are implemented, starting from the 6th Environmental Plan (fiscal 2010-2012). In specific terms, we have adopted a backcasting approach, which identifies activity targets over the period of each plan taking into consideration matters that need to be achieved in realizing the Vision. Currently, we are promoting the 7th Environmental Plan (fiscal 2013-2015).



## Main Points of Previous Environmental Plans

### 1st Environmental Plan (FY1994-1996)

Environmental measures at factories, thorough compliance

### 2nd Environmental Plan (FY1997-2000)

Introduction of ISO 14001, product-related environmental measures, thorough compliance

### 3rd Environmental Plan (FY2001-2003)

Reinforcing the management base, thorough compliance, disclosure of environmental information

### 4th Environmental Plan (FY2004-2006)

Conducting initiatives to integrate environmental considerations into all corporate activities beyond factories and products, expand the scope of corporate information disclosure and assessment, reinforce legal compliance and discover and prevent potential risks

### 5th Environmental Plan (FY2007-2009)

Taking ISO 14001 (FY2005 version) as an opportunity to strengthen environmental management (Synergies between defensive / proactive activities)

## October 2007: Formulated Environmental Vision 2021

### 6th Environmental Plan (FY2010-2012)

#### 1. Improving Environmental Performance

- Reduce CO<sub>2</sub> from Production  
Shift from evaluation on a unit basis to an overall volume basis
- Reduce CO<sub>2</sub> from Product Usage, Reduce Resource Inputs  
Achieve steady reductions on selected products and expand number of products subject to reductions
- Raise 3R Targets  
Reduce final disposal rate for Mitsubishi Electric from 0.5% to 0.1%

#### 2. Expanding Global Environmental Management

- Expanding ISO 14001 conformity
- Assign and train key environmental personnel

#### 3. Strengthening of Environment-Related Business

#### 4. Respecting Biodiversity

Formulated environmental plan using backcasting approach

Environmental Vision 2021



**▣ Basic Stance**

Promoting Design for Environment activities based on product assessments that take into consideration three perspectives—effective use of resources, efficient use of energy and avoiding emissions of substances with potential environmental risk.

**▣ Factor X**

Pursuing products with a low environmental footprint and high performance using Factor X, an index that quantifies the idea of maximizing product value while minimizing impact on the environment.

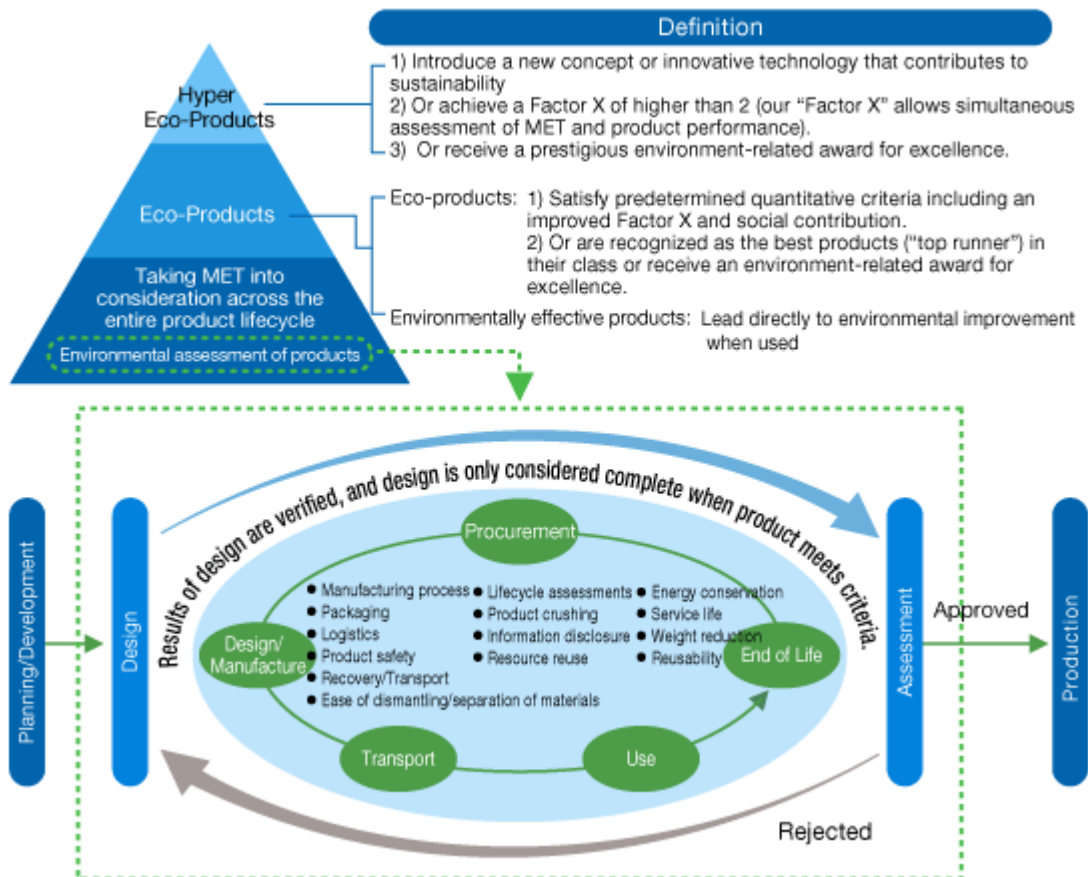
## Aiming for More Advanced "Design for Environment"

### Reducing CO2 Emissions and Resource Inputs in Line with Environmental Vision 2021

Since fiscal 2004, the Mitsubishi Electric Group has implemented product assessments from an MET<sup>1</sup> perspective for all of its newly developed products. At the same time, the Group has conducted evaluations using LCA<sup>2</sup> encompassing the entire product lifecycle from the extraction of resources through to design, manufacture, use and disposal. These efforts are aimed at reducing environmental impact. In pursuing design for the environment, we have determined targets for individual products by utilizing the Factor X environmental efficiency improvement index. Products whose factor has improved compared to the base fiscal year are designated as "eco-products," while products whose factor has improved by more than two are designated as "hyper eco-products."

- 1 MET stands for material (effective use of material resources), energy (efficient use of energy) and toxicity (avoiding emissions of toxic substances with potential environmental risk).
- 2 LCA stands for lifecycle assessment, a product assessment approach seeking to quantitatively and comprehensively evaluate the environmental impact of products beginning with the collection of resources and continuing through to design, manufacturing, transportation, usage and end-of-life processes.

### The Concept of Design for the Environment



## Factor X: Measuring Improvements in the Environmental Efficiency of Products

### Index Based on the Product Value and Environmental Impact

Factor X is an index that quantifies the idea of maximizing product value while minimizing impact on the environment. "X" is a value that compares a new product to a baseline product. The larger the X value, the greater the improvement in product performance and the lower the environmental impact. For example, a factor of 4 indicates a fourfold improvement in environmental consideration. Our calculation of Factor X is based upon 3 elements: reduction of resource inputs, reduction of the amount of energy used in production, and avoidance of emissions of substances with potential environmental risk. To these three we also add level of product performance improvement.

While we continue to use Factor X, Mitsubishi Electric is also investigating better ways of assessing product value, so that we may produce superior products with a lower environmental impact, and help achieve Environmental Vision 2021.

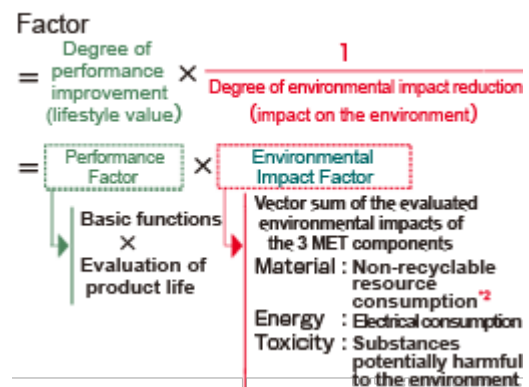
### Basic Concepts to Calculate Factor X

- Comparison between a new product and a baseline product (in principle, we use Mitsubishi Electric products and a base year of 1990).
- Evaluations of the performance factor (improvement in product performance) and the environmental impact factor (degree of environmental impact reduction) are multiplied together to produce the rating.
- The performance index is evaluated by basic functions (product functions, performance, quality, etc.) multiplied by product life<sup>1</sup>.

The environmental impact of a product is evaluated using a sub-index for 1) non-recycled materials<sup>2</sup>, 2) energy consumption, 3) toxicity ("MET," where M is the consumption of non-recycled resources, E is the amount of energy or power consumption, and T is the presence of substances with potential environmental risk), from which the environmental impact is calculated for the new product (using a value of 1 for the baseline product), and the final environmental impact index is represented by the length of the vector that combines the three sub-indices.

1. The performance index is defined separately for each product.
2. Sub-index for the consumption of non-recycled resources= virgin resource consumption + non-recyclable volume (i.e. the volume disposed of without being recycled) = [weight of product - volume of recycled materials and parts] + [weight of product - recyclable volume]

### ● Factor Calculation



## **Introducing a Green Accreditation System to Reduce Environmental Risk**

---

In April 2006 the Mitsubishi Electric Group introduced a Green Accreditation System based on the Green Procurement Standards Guide established in September 2000. The Group is working to minimize environmental risks through evaluating the status of environmental management system accreditation acquired by suppliers, compliance with statutory and regulatory requirements, and management of chemical substances contained in products, while at the same time certifying suppliers that meet the Company's criteria and standards.

In fiscal 2011, Mitsubishi Electric added "respecting biodiversity" as an assessment criterion of the Green Accreditation System as a part of efforts to take into consideration concerns related to biodiversity.

We have continued to secure a 100% Green Accreditation rate among business partners since fiscal 2009.

[Environment: Group Biodiversity Action Guidelines](#)



[Environment: Biodiversity-Conscious Procurement](#)



[Procurement Activities: Green Procurement](#)



**▣ Group Biodiversity Action Guidelines**

Introduction to the Mitsubishi Electric Group Biodiversity Action Guidelines established in May 2010.

**▣ Mitsubishi Electric Outdoor Classroom**

Introduction to the targets and fiscal 2013 initiatives and achievements of Mitsubishi Electric Outdoor Classroom.

**▣ "Satoyama" Woodland Preservation Project**

Introduction to the targets and fiscal 2013 initiatives and achievements of the "Satoyama" woodland preservation project, a volunteer-oriented program that works to restore the natural environment in local areas.

\* To CSR Activities

**▣ Living Creature Studies**

Introduction to the Mitsubishi Electric Group's Living Creature Studies, an initiative undertaken to help employees better understand the relationship between business activities and the natural environment.

**▣ Biodiversity-Conscious Procurement**

Introduction to initiatives that take biodiversity into consideration in connection with procurement activities based on the Mitsubishi Electric Group's Green Procurement Standards Guide.

### Considering Biodiversity in All of Our Business Activities

---

All human activity benefits from the workings of the diverse life forms that live on the planet. At the same time, human activity also exerts a significant impact on biodiversity, including damage to ecosystems. Now, at a time when many species face extinction, the preservation of biodiversity is a shared issue for all of humanity.

Mitsubishi Electric formulated its Environmental Vision 2021 in October 2007. This Vision positions respect for biodiversity as one of the Company's basic policies. The policy stems from the strong desire to protect the natural environment and realize a sustainable society through fostering environmental awareness among our employees. Furthermore, we formulated the Mitsubishi Electric Group Biodiversity Action Guidelines in May 2010. These Biodiversity Action Guidelines have two main features: (1) they include the pledge of every Mitsubishi Electric Group employee to understand the relationship between business activities and biodiversity; and (2) they are structured according to each stage of the product lifecycle.

#### News Releases

May 18, 2010

▶ Mitsubishi Electric Group Establishes Biodiversity Action Guidelines  (26KB)

### Mitsubishi Electric Group Biodiversity Action Guidelines

---

#### Respect for Biodiversity

The Earth's ecosystem is made up of diverse living organisms. All aspects of human civilization benefit from this ecosystem, but at the same time, we affect it in both direct and indirect ways. Today, damage to the ecosystem is said to be driving many species to extinction and otherwise eroding biodiversity.

In recognition of this, the Mitsubishi Electric Group has established Biodiversity Action Guidelines, which add to the Group's environmental activities aimed at the creation of a low-carbon and recycling-based society from the perspective of biodiversity conservation. These guidelines define the role of business activities in preserving biodiversity, and outline the Group's efforts toward the development of a sustainable society through its business activities.

#### Action Guidelines

##### Resources & Procurement

Recognizing that we utilize globally procured natural resources such as minerals, fuels and plants, we shall aim to preserve biodiversity in Japan and around the world by carrying out green procurement activities.

##### Product Design

In designing our products and services, we shall promote the effective utilization of resources and the efficient use of energy, as well as aim to prevent the emission of substances that pose a risk to the environment.

##### Manufacturing & Transportation

When commencing or making changes to land use, such as when constructing factories or warehouses, we will give due consideration to protecting the biodiversity of the land in question. In manufacturing and transportation, we aim to minimize energy use, waste generation and the emission of chemical substances.

##### Sales, Usage & Maintenance

In our sales activities, we will work to promote better understanding among our customers of the impact that product/service usage and maintenance can have on biodiversity.

## Collection & Recycling

We will actively develop recycling technologies and apply them to collected end-of-life products.

## Understanding & Action

We will deepen our understanding of the importance of biodiversity and our relationship to it, and will actively and voluntarily take actions necessary to coexist in harmony with nature.

## Cooperation

All companies in the Mitsubishi Electric Group, including overseas affiliates, will act as one, in cooperation with local communities, NGOs and governments.

## News Releases

May 18, 2010

▶ Mitsubishi Electric Group Establishes Biodiversity Action Guidelines  (26KB)

## Incorporating the Opinions of Experts in Our Action Guidelines

---

In formulating Mitsubishi Electric's Biodiversity Action Guidelines and the Relationship between Business Activities and Biodiversity chart, we invited Dr. Ryo Kohsaka, who was then an associate professor at Nagoya City University, to exchange ideas regarding biodiversity, in March 2010. His feedback on our efforts is summarized as follows:

1. Activities are based first upon the emotional desire to cherish living things. The next step is action based on logic.
2. Using indices for management can be effective; however, focusing on the effect of manufacturing on the ecosystem is more important.
3. As a company that procures resources globally, a focus on procurement is vital; begin first by confirming legal compliance.
4. Collaborative relationships with regional communities are essential.

Based on this feedback, we completed steps to implement our guidelines and relational chart, which were announced on May 18, 2010.

Environmental Topics: Exchanging Ideas with Experts 



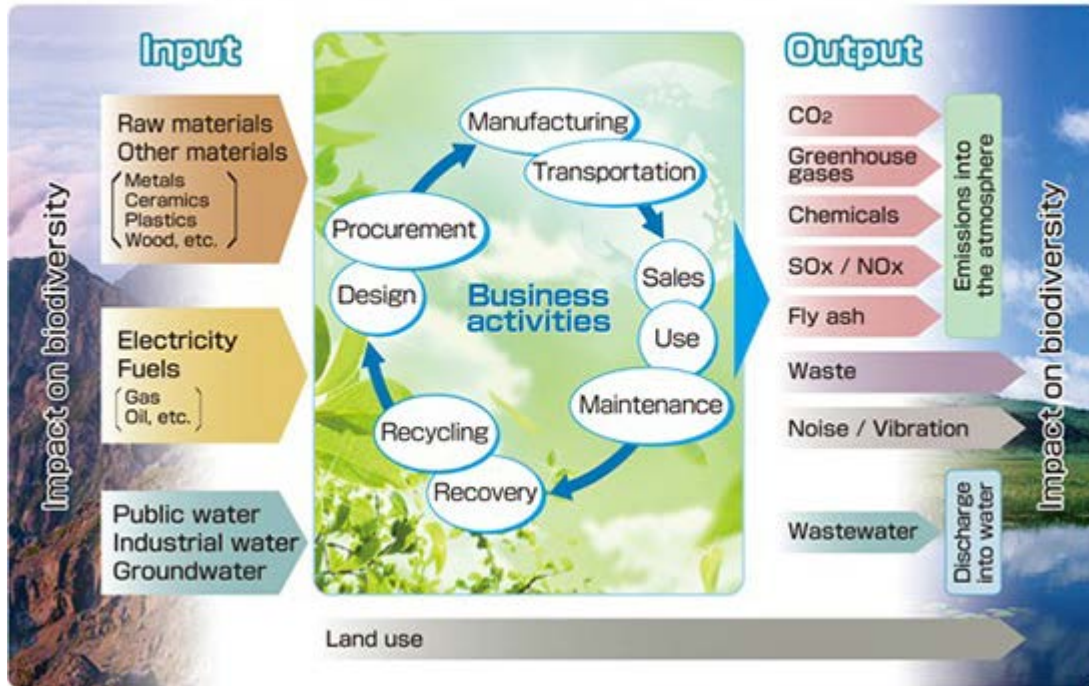
## Visualizing the Relationship between Business Activities and Biodiversity while Promoting Wide-Ranging Initiatives

---

In addition, to deepen employee understanding of biodiversity, we have created a chart that shows the relationship between business activities and biodiversity. Using this chart, we will promote renewed awareness among all business sites both inside and outside Japan of the relationships between their business activities and surrounding regions' ecosystems and natural environment, and link this awareness to concrete actions that contribute to communication with those regions and to the preservation of biodiversity.



## Relationship between Business Activities and Biodiversity



### Activities Linked to the Preservation of Biodiversity

Activity	Purpose	Details
Mitsubishi Electric Outdoor Classroom	Foster environmental awareness among employees	Participants and employees, who serve as leaders, work to improve environmental awareness in natural classroom settings such as woodlands, waterways, parks and seacoasts.
"Satoyama" Woodland Preservation Project	Contribute to society, drawing on the voluntary efforts of employees	Employees strive to restore parks, woodlands, rivers and other natural areas located close to business sites.
Living Creature Studies	Deepen understanding of our impact on the natural environment	Employees observe the natural environment at business sites and surrounding areas while evaluating and improving behavior.
Biodiversity-Conscious Procurement	Reduce procurement-related environmental risks	Employees evaluate suppliers from a variety of perspectives; for example, in terms of the status of environmental initiatives and in terms of management of products that contain chemical substances.



### **Mitsubishi Electric Outdoor Classroom**

---

Mitsubishi Electric Outdoor Classrooms represent our efforts to foster environmental awareness oriented toward respecting biodiversity, within the broader context of the company's Environmental Vision 2021. The classrooms themselves are conducted in natural settings such as woodlands, waterways, parks and seacoasts, where employees, their families and members of the local community can experience nature together. The ultimate objective of each outdoor classroom is to promote behaviors that impact positively on the environment while fostering an awareness of our symbiotic relationship with nature.

We believe that providing families and members of the community with a chance to share experiences outside their daily work or home lives can change the way they think about the environment, which in turn will have a positive impact on their actions in the workplace and at home. For example, through encouraging program participants to consider how the disposal of a certain product might cause harm to the ecosystem, or whether there might be alternative methods of production that utilize resources more effectively, both knowledge and understanding are enhanced. In this way, we hope that each participant will take action, such as reevaluating their use of electricity from a more environmental perspective.

(See Concept 1 in the diagram below)

### **Employees are Responsible for the Planning and Running of Programs**

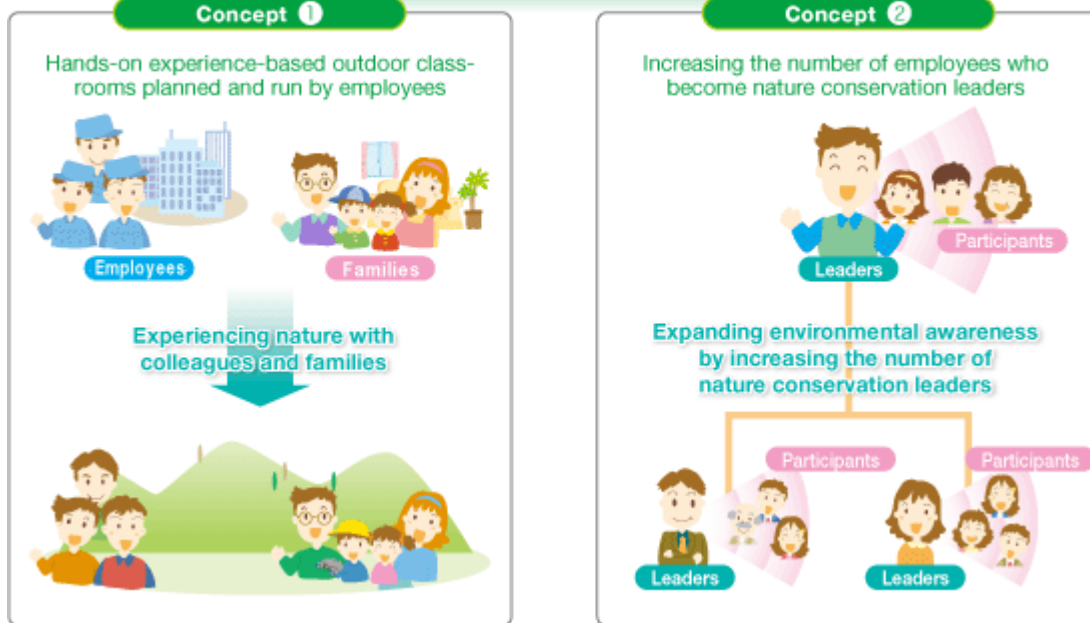
---

Another integral aspect of Mitsubishi Electric Outdoor Classrooms is the role of employees as teachers (Outdoor Classroom leaders), who are responsible for planning and managing the program. Twice a year, in spring and fall, leader candidates from all over Japan attend a two-day training seminar, led by other "nature-loving" employees who have undergone the training, where they learn how to become Outdoor Classroom leaders. The seminar involves practical training and fieldwork fully utilizing all five senses in a mountain setting, as well as the cultivation of the knowledge and skills required to lead the classroom, including how to communicate with children, emergency first-aid procedures and other critical subjects.

Upon completion of the seminar, the new leaders return to their respective workplaces and apply their training toward the creation of their own outdoor classrooms.

(See Concept 2 in the diagram below)

## The Two Concepts Behind Mitsubishi Electric Outdoor Classrooms



### Serving as a Place for Community Environmental Communication

The year 2013 marks the eighth year since the first Mitsubishi Electric Outdoor Classroom was held in October 2006. Recent years have seen increased opportunities for local participation, and the classrooms have begun fulfilling their role as a place for communication with local communities. Today, Mitsubishi Electric Outdoor Classrooms are beginning to function as classrooms where community members come together to learn about nature.

## Experiencing the Blessings of Nature and Learning about the Relationship Between Business Activities and Biodiversity

The Mitsubishi Electric Group promotes activities designed to better understand the relationship between its factories and the surrounding environment. Focusing on production—a lifecycle stage that can be controlled directly—these activities help employees to understand the relationship between business activities and biodiversity, and to incorporate this understanding into their day-to-day activities. These activities are also the point at which the "emotional" and "logical" aspects of respecting biodiversity converge.

Japan's Chubu area is a region of rich natural beauty, where nature preservation activities are popular. In August 2010, Mitsubishi Electric's Chubu Branch Office, Inazawa Works, Nakatsugawa Works and Nagoya Works—all of which are located in the Chubu region—conducted living creature and aquatic nature observation studies. Discoveries as a result of these activities were compiled in the "Field Guides" and a "Mitsubishi Electric and Water Map" poster. Drawing on the observations of employees as well as comments from participating environmental conservation groups, steps were also taken to produce the "Mitsubishi Electric Experience of Life" booklet. Moreover, Mitsubishi Electric hosted a nature observation meeting at Mount Togoku in the Nagoya region of Aichi Prefecture in fiscal 2011. Harnessing the knowledge of related parties, the company created a "Flower and Berry Calendar," which showcases 145 species of local flora arranged by season.

In order to help employees understand and respect biodiversity in their own business activities, we focus on providing employees with actual experiences of nature. Rather than simply making employees listen to speeches or watch presentations, we believe that getting them out of the office, moving around and learning for themselves effectively deepens their thinking on nature and biodiversity.



Observations of living organisms and findings



"Field Guides" compiled from observations of the types of living organisms inhabiting the grounds of factories and surrounding areas.



The "Mitsubishi Electric and Water Map" poster created as a project uniquely suited to sites in regions with an abundance of water.



The "Mitsubishi Electric Experience of Life" booklet describing observations of living organisms and findings.

▶ [Click here to view the booklet \(Japanese\).](#)

### Placing Increased Emphasis on Biodiversity-Conscious Procurement

---

The product lifecycle has many stages. However, as a manufacturer that purchases and procures the materials used to assemble and manufacture our products, the one stage at which it is difficult for us to directly control impact on biodiversity is the procurement stage.

To promote the global procurement of materials with minimal environmental impact, the Mitsubishi Electric Group has positioned green procurement as a priority to ensure the regulatory compliance of its suppliers. Since April 2006 Mitsubishi Electric has been creating partnerships based on the Green Accreditation System, which requires that suppliers carry out environmental management. In September 2009, we also added an appendix specifically related to protecting biodiversity to our Green Procurement Standards Guide.



▶ [Green Procurement Standards Guide \(English, 234KB\)](#) 

## CSR – Guideline Comparison Tables

---

 **GRI Guideline Comparison Table**

 **Japan MOE Guideline Comparison Table**

## CSR – GRI Guideline Comparison Table

Item	Indicator	CONTENTS
1 Vision and Strategy		
1.1	Statement of the organization's vision and strategy regarding its contribution to sustainable development.	<a href="#">President's Message</a>
		<a href="#">From the President</a>
1.2	Statement from the CEO (or equivalent senior manager) describing key element of the report.	<a href="#">President's Message</a>
		<a href="#">From the President</a>
2 Profile		
Organizational Profile		
2.1	Name of the organization.	<a href="#">Corporate Data</a>
2.2	Primary brands, products, and/or services.	<a href="#">Products</a>
		<a href="#">Business Overview</a>
2.3	Operational structure of the organization, including main divisions, operating companies, subsidiaries, and joint ventures.	<a href="#">Corporate Data</a>
		<a href="#">Organization</a>
2.4	Location of organization's headquarters.	<a href="#">Corporate Data</a>
2.5	Number of countries where the organization operates, and names of countries with either major operations or that are specifically relevant to the sustainability issues covered in the report.	<a href="#">Locations</a>
		<a href="#">Growth Strategies</a>
2.6	Nature of ownership and legal form.	<a href="#">Corporate Data</a>
2.7	Markets served (including geographic breakdown, sectors served, and types of customers/beneficiaries).	<a href="#">Locations</a>
		<a href="#">Growth Strategies</a>
2.8	Scale of the reporting organization, including: <ul style="list-style-type: none"> <li>• Number of employees;</li> <li>• Net sales (for private sector organizations) ;</li> <li>• Total capitalization broken down in terms of debt and equity (for private sector organizations); and</li> <li>• Quantity of products or services provided.</li> </ul>	<a href="#">Corporate Data</a>
2.9	Significant changes during the reporting period regarding size, structure, or ownership	-
2.10	Awards received in the reporting period.	<a href="#">Awards 2011</a>
		<a href="#">Awards 2012</a>
3 Report Parameters		
Report profile		



3.1	Reporting period (e.g., fiscal/calendar year) for information provided.	<a href="#">About the Report</a>
		<a href="#">Period and Scope of the Report</a>
3.2	Date of most recent previous report (if any).	June, 2010
		<a href="#">Back Issues</a>
3.3	Reporting cycle (annual, biennial, etc.)	Annual
3.4	Contact point for questions regarding the report or its contents.	<a href="#">Contact</a>
Report Scope and Boundary		
3.5	Process for defining report content.	<a href="#">About the Report</a>
3.6	Boundary of the report (e.g., countries, divisions, subsidiaries, leased facilities, joint ventures, suppliers).	<a href="#">About the Report</a>
		<a href="#">Period and Scope of the Report</a>
3.7	State any specific limitations on the scope or boundary of the report.	-
3.8	Basis for reporting on joint ventures, subsidiaries, leased facilities, outsourced operations, and other entities that can significantly affect comparability from period to period and/or between organizations.	-
3.9	Data measurement techniques and the bases of calculations, including assumptions and techniques underlying estimations applied to the compilation of the Indicators and other information in the report.	-
3.10	Explanation of the effect of any re-statements of information provided in earlier reports, and the reasons or such re-statement (e.g., mergers/acquisitions, change of base years/periods, nature of business, measurement methods).	-
3.11	Significant changes from previous reporting periods in the scope, boundary, or measurement methods applied in the report.	<a href="#">About the Report</a>
		<a href="#">Period and Scope of the Report</a>
GRI content index		
3.12	Table identifying the location of the Standard Disclosures in the report.	<a href="#">GRI Guideline Comparison</a>
Assurance		
3.13	Policy and current practice with regard to seeking external assurance for the report. If not included in the assurance report accompanying the sustainability report, explain the scope and basis of any external assurance provided. Also explain the relationship between the reporting organization and the assurance provider(s).	-
Governance, Commitments, and Engagement		
Governance		
4.1	Governance structure of the organization, including committees	<a href="#">Corporate</a>

	under the highest governance body responsible for specific tasks, such as setting strategy or organizational oversight.	<u>Governance</u> <u>Corporate</u> <u>Governance</u>
4.2	Indicate whether the Chair of the highest governance body is also an executive officer (and, if so, their function within the organization's management and the reasons for this arrangement).	
4.3	For organizations that have a unitary board structure, state the number of members of the highest governance body that are independent and/or non-executive members.	
4.4	Mechanisms for shareholders and employees to provide recommendations or direction of the highest governance body.	-
4.5	Linkage between compensation for members of the highest governance body, senior managers, and executives (including departure arrangements), and the organization's performance (including social and environmental performance).	-
4.6	Processes in place for the highest governance body to ensure conflicts of interest are avoided.	<u>Corporate</u> <u>Governance</u>  <u>Corporate</u> <u>Governance</u>
4.7	Process for determining the qualifications and expertise of the members of the highest governance body for guiding the organization's strategy on economic, environmental, and social topics.	-
4.8	Internally developed statements of mission or values, codes of conduct, and principles relevant to economic, environmental, and social performance and the status of their implementation.	<u>Corporate</u> <u>Mission</u>  <u>Compliance</u>  <u>Group</u> <u>Environmental</u> <u>Policy</u>  <u>Environmental</u> <u>Statement:</u> <u>Eco Changes</u>  <u>Environmental</u> <u>Vision 2021</u>  <u>Aiming to</u> <u>Become a</u> <u>Global,</u> <u>Leading</u> <u>Green</u> <u>Company</u>  <u>6th</u> <u>Environmental</u> <u>Plan (Fiscal</u> <u>2010-2012)</u>  <u>7th</u> <u>Environmental</u> <u>Plan (Fiscal</u> <u>2013-2015)</u>  <u>Group</u> <u>Biodiversity</u> <u>Action</u> <u>Guidelines</u>
4.9	Procedures of the highest governance body for overseeing the	<u>Corporate</u>

	organization's identification and management of economic, environmental, and social performance, including relevant risks and provide opportunities, and adherence or compliance with internationally agreed standards, codes of conduct, and principles.	<u>Governance</u> <u>Corporate Governance</u> <u>Compliance</u> <u>Risk Management</u> <u>Ensuring Consistent Quality</u> <u>Environmental Management Structure</u>
4.10	Processes for evaluating the highest governance body's own performance, particularly with respect to economic, environmental, and social performance.	-
Commitments to external initiatives		
4.11	Explanation of whether and how the precautionary approach or principle is addressed by the organization.	<u>Compliance</u> <u>Risk Management</u> <u>Ensuring Consistent Quality</u> <u>Environmental Risk Management</u>
4.12	Externally developed economic, environmental, and social charters, principles, or other initiatives to which the organization subscribes or endorses.	-
4.13	Memberships in associations (such as industry associations) and/or national/international advocacy organizations in which the organization: <ul style="list-style-type: none"> <li>• Has positions in governance bodies;</li> <li>• Participates in projects or committees;</li> <li>• Provides substantive funding beyond routine membership dues; or</li> <li>• Views membership as strategic.</li> </ul>	<u>Status of Compliance with REACH and CLP Regulations</u>
Stakeholder Engagement		
4.14	List of stakeholder groups engaged by the organization.	<u>Social Responsibility</u>
4.15	Basis for identification and selection of stakeholders with whom to engage.	-
4.16	Approaches to stakeholder engagement, including frequency of engagement by type and by stakeholder group.	<u>To Customers</u> <u>To Business Partners</u> <u>To Shareholders &amp; Investors</u> <u>To Employees</u> <u>As a</u>

		<a href="#">Corporate Citizen</a>
		<a href="#">Exchanging Ideas with Experts</a>
		<a href="#">Dialog on Environmental Management</a>
4.17	Key topics and concerns that have been raised through stakeholder engagement, and how the organization as responded to those key topics and concerns, including through its reporting.	<a href="#">Exchanging Ideas with Experts</a>
		<a href="#">Dialog on Environmental Management</a>
5 Disclosure on Management Approach and Performance		
Economic		
Management Approach		<a href="#">President's Message</a>
		<a href="#">From the President</a>
		<a href="#">Growth Strategies</a>
Economic Performance Indicators		
EC1	Direct economic value generated and distributed, including revenues, operating costs, employee compensation, donations and other community investments, retained earnings, and payments to capital providers and governments.	<a href="#">Annual Report</a>
EC2	Financial implications and other risks and opportunities for the organization's activities due to climate change.	-
EC3	Coverage of the organization's defined benefit plan obligations.	<a href="#">Annual Report</a>
EC4	Significant financial assistance received from government.	-
EC5	Range of ratios of standard entry level wage compared to local minimum wage at significant locations of operation.	-
Market Presence		
EC6	Policy, practices, and proportion of spending on locally-based suppliers at significant locations of operation.	<a href="#">To Business Partners</a>
EC7	Procedures for local hiring and proportion of senior management hired from the local community at locations of significant operation.	-
Indirect Economic Impacts		
EC8	Development and impact of infrastructure investments and services provided primarily for public benefit through commercial, in-kind, or pro bono engagement.	<a href="#">Philanthropic Activities</a>
		<a href="#">As a Corporate Citizen</a>
EC9	Understanding and describing significant indirect economic impacts, including the extent of impacts.	-
Environmental		

Management Approach		<a href="#"><u>President's Message</u></a>
		<a href="#"><u>From the President</u></a>
		<a href="#"><u>CSR Philosophy</u></a>
		<a href="#"><u>Group Environmental Policy</u></a>
		<a href="#"><u>Environmental Statement: Eco Changes</u></a>
		<a href="#"><u>Environmental Vision 2021</u></a>
		<a href="#"><u>Aiming to Become a Global Leading Green Company</u></a>
		<a href="#"><u>6th Environmental Plan (Fiscal 2010-2012)</u></a>
		<a href="#"><u>7th Environmental Plan (Fiscal 2013-2015)</u></a>
		<a href="#"><u>Group Biodiversity Action Guidelines</u></a>
		<a href="#"><u>Environmental Management</u></a>
		<a href="#"><u>Targets &amp; Achievements of the 6th Environmental Plan</u></a>
		Materials
EN1	Materials used by weight or volume.	<a href="#"><u>Material Balance</u></a>
EN2	Percentage of materials used that area recycled input materials.	-
Energy		
EN3	Direct energy consumption by primary energy source.	<a href="#"><u>Material Balance</u></a>
EN4	Indirect energy consumption by primary source.	-
EN5	Energy saved due to conservation and efficiency improvements.	<a href="#"><u>Reducing CO2 from Production</u></a>
		<a href="#"><u>Targets &amp; Achievements</u></a>

		<a href="#">of the 6th Environmental Plan</a>
		<a href="#">Environmental Performance Data</a>
EN6	Initiatives to provide energy-efficient or renewable energy based products and services, and reductions in energy requirements as a result of these initiatives.	<a href="#">Reducing CO2 from Product Usage</a>
		<a href="#">Environment-Related Business</a>
		<a href="#">Environmental Statement: Eco Changes</a>
EN7	Initiatives to reduce indirect energy consumption and reductions achieved. EN21 Total water discharge by quality and destination.	-
Water		
EN8	Total water withdrawal by source.	<a href="#">Material Balance</a>
		<a href="#">Environmental Performance Data</a>
		<a href="#">Using Water Effectively</a>
EN9	Water sources significantly affected by withdrawal of water.	-
EN10	Percentage and total volume of water recycled and reused.	<a href="#">Environmental Performance Data</a>
		<a href="#">Using Water Effectively</a>
Biodiversity		
EN11	Location and size of land owned, leased, managed in, or adjacent to, protected areas and areas of high biodiversity value outside protected areas.	-
EN12	Description of significant impacts of activities, products, and services on biodiversity in protected areas and areas of high biodiversity value outside protected areas.	-
EN13	Habitats protected or restored.	-
EN14	Strategies, current actions, and future plans for managing impacts on biodiversity.	<a href="#">President's Message</a>
		<a href="#">Respecting Biodiversity</a>
		<a href="#">Respecting Biodiversity</a>
EN15	EN2 Percentage of materials used that are recycled input materials. Number of IUCN Red List species and national conservation list species with habitats in areas affected by operations, by level of	-

	extinction risk.	
Emissions, Effluents, and Waste		
EN16	Total direct and indirect greenhouse gas emissions by weight.	<u>Material Balance</u>
		<u>Environmental Performance Data</u>
		<u>Reducing CO2 from Production</u>
		<u>Reducing Emissions of Non-CO2 Greenhouse Gases</u>
EN17	Other relevant indirect greenhouse gas emissions by weight.	-
EN18	Initiatives to reduce greenhouse gas emissions and reductions achieved.	<u>Reducing CO2 from Production</u>
		<u>Reducing Emissions of Non-CO2 Greenhouse Gases</u>
EN19	Emissions of ozone-depleting substances by weight.	<u>Reducing Emissions of Non-CO2 Greenhouse Gases</u>
EN20	NO, SO, and other significant air emissions by type and weight.	<u>Material Balance</u>
EN21	Total water discharge by quality and destination.	
EN22	Total weight of waste by type and disposal method.	<u>Material Balance</u>
		<u>Environmental Performance Data</u>
		<u>Zero Emissions</u>
EN23	Total number and volume of significant spills.	-
EN24	Weight of transported, imported, exported, or treated waste deemed hazardous under the terms of the Basel Convention Annex I, II, III, and VIII, and percentage of transported waste shipped internationally.	-
EN25	Identity, size, protected status, and biodiversity value of water bodies and related habitats significantly affected by the reporting organization's discharges of water and runoff.	-
Products and Services		
EN26	Initiatives to mitigate environmental impacts of products and services, and extent of impact mitigation.	<u>Reducing Resource Inputs</u>
		<u>Recycling</u>



		<a href="#">End-of-Life Products</a>
		<a href="#">Highlights of Activities in Fiscal 2012</a>
		<a href="#">Environmental Technology R&amp;D Results</a>
		<a href="#">Plastic Recycling Comes of Age</a>
EN27	Percentage of products sold and their packaging materials that are reclaimed by category.	<a href="#">Recycling End-of-Life Products</a>
		<a href="#">Plastic Recycling Comes of Age</a>
Compliance		
EN28	Monetary value of significant fines and total number of non-monetary sanctions for non-compliance with environmental laws and regulations.	<a href="#">Environmental Risk Management</a>
Transport		
EN29	Significant environmental impacts of transporting products and other goods and materials used for the organization's operations, and transporting members of the workforce.	<a href="#">Material Balance</a>
		<a href="#">Environmental Performance Data</a>
		<a href="#">Reducing CO2 from Logistics</a>
Overall		
EN30	Total environmental protection expenditures and investments by type.	<a href="#">Environmental Accounting</a>
Social Performance Indicators		
Management Approach		<a href="#">President's Message</a>
		<a href="#">CSR Philosophy</a>
		<a href="#">Compliance</a>
		<a href="#">To Employees</a>
Employment		
LA1	Total workforce by employment type, employment contract, and region.	<a href="#">Workforce Diversity &amp; Equal Opportunity</a>
LA2	Total number and rate of employee turnover by age group, gender, and region.	-

LA3	Benefits provided to full-time employees that are not provided to temporary or part-time employees, by major operations.	-
Labor/Management relations		
LA4	Percentage of employees covered by collective bargaining agreements.	-
LA5	Minimum notice period(s) regarding operational changes, including whether it is specified in collective agreements.	-
Occupational health and Safety		
LA6	Percentage of total workforce represented in formal joint management-worker health and safety committees that help monitor and advise on occupational health and safety programs.	-
LA7	Rates of injury, occupational diseases, lost days, and absenteeism, and number of work-related fatalities by region.	<u>Ensuring Occupational Safety &amp; Health</u>
LA8	Education, training, counseling, prevention, and risk-control programs in place to assist workforce members, their families, or community members regarding serious diseases.	
LA9	Health and safety topics covered in formal agreements with trade unions.	-
Training and Education		
LA10	Average hours of training per year per employee by employee category.	-
LA11	Programs for skills management and lifelong learning that support the continued employability of employees and assist them in managing career endings.	<u>Workforce Diversity &amp; Equal Opportunity</u>
LA12	Percentage of employees receiving regular performance and career development reviews.	-
Diversity and Opportunity		
LA13	Composition of governance bodies and breakdown of employees per category according to gender, age group, minority group membership, and other indicators of diversity.	-
LA14	Ratio of basic salary of men to women by employee category.	-
Human Rights		
Management Approach		<u>Compliance</u>
		<u>Respecting Human Rights</u>
		<u>Responsibility to Business Partners</u>
		<u>Procurement Policy</u>
Investment and Procurement Practices		
HR1	Percentage and total number of significant investment agreements that include human rights clauses or that have undergone human rights screening.	-
HR2	Percentage of significant suppliers and contractors that have undergone screening on human rights and actions taken.	-

HR3	Total hours of employee training on policies and procedures concerning aspects of human rights that are relevant to operations, including the percentage of employees trained.	-
Non-Discrimination		
HR4	Total number of incidents of discrimination and actions taken.	-
Freedom of Association and Collective Bargaining		
HR5	Operations identified in which the right to exercise freedom of association and collective bargaining may be at significant risk, and actions taken to support these rights.	-
Child Labor		
HR6	Operations identified as having significant risk for incidents of child labor, and measures taken to contribute to the elimination of child labor.	<u>Compliance</u>
		<u>Respecting Human Rights</u>
		<u>Responsibility to Business Partners</u>
		<u>Procurement Policy</u>
Forced and Compulsory Labor		
HR7	Operations identified as having significant risk for incidents of forced or compulsory labor, and measures to contribute to the elimination of forced or compulsory labor.	<u>Compliance</u>
		<u>Respecting Human Rights</u>
		<u>Responsibility to Business Partners</u>
		<u>Procurement Policy</u>
Security practices		
HR8	Percentage of security personnel trained in the organization's policies or procedures concerning aspects of human rights that are relevant to operations.	-
Indigenous rights		
HR9	Total number of incidents of violations involving rights of indigenous people and actions taken.	-
Society		
Management Approach		<u>President's Message</u>
		<u>CSR Philosophy</u>
		<u>Compliance</u>
		<u>Risk Management</u>
Community		
SO1	Nature, scope, and effectiveness of any programs and practices that assess and manage the impacts of operations on	<u>Complying with</u>

	communities, including entering, operating, and exiting.	<a href="#">Environmental Regulations</a>
		<a href="#">Environmental Audits</a>
Corruption		
SO2	Percentage and total number of business units analyzed for risks related to corruption.	-
SO3	Percentage of employees trained in organization's anti-corruption policies and procedures.	<a href="#">Compliance</a>
SO4	Actions taken in response to incidents of corruption.	<a href="#">President's Message</a>
		<a href="#">Compliance</a>
Public Policy		
SO5	Public policy positions and participation in public policy development and lobbying.	-
SO6	Total value of financial and in-kind contributions to political parties, politicians, and related institutions by country.	-
Anti-Competitive Behavior		
SO7	Total number of legal actions for anti-competitive behavior, anti-trust, and monopoly practices and their outcomes.	-
Compliance		
SO8	Monetary value of significant fines and total number of non-monetary sanctions for non-compliance with laws and regulations.	-
Product Responsibility		
Management Approach		<a href="#">CSR Philosophy</a>
		<a href="#">To Customers</a>
Customer Health and Safety		
PR1	Life cycle stages in which health and safety impacts of products and services are assessed for improvement, and percentage of significant products and services categories subject to such procedures.	<a href="#">Product Development</a>
		<a href="#">Ensuring Consistent Quality</a>
Products and Services		
PR2	Total number of incidents of non-compliance with regulations and voluntary codes concerning health and safety impacts of products and services during their life cycle, by type of outcomes.	<a href="#">Responding to Product-Related Issues</a>
Products and Services Labeling		
PR3	Type of product and service information required by procedures, and percentage of significant products and services subject to such information requirements.	-
PR4	Total number of incidents of non-compliance with regulations and voluntary codes concerning product and service information and labeling, by type of outcomes.	-
PR5	Practices related to customer satisfaction, including results of	<a href="#">Increasing</a>

	surveys measuring customer satisfaction.	Customer <u>Satisfaction</u>
Marketing Communications		
PR6	Programs for adherence to laws, standards, and voluntary codes related to marketing communications, including advertising, promotion, and sponsorship.	-
PR7	Total number of incidents of non-compliance with regulations and voluntary codes concerning marketing communications, including advertising, promotion, and sponsorship by type of outcomes.	-
Customer Privacy		
PR8	Total number of substantiated complaints regarding breaches of customer privacy and losses of customer data.	-
Compliance		
PR9	Monetary value of significant fines for non-compliance with laws and regulations concerning the provision and use of products and services.	-

## CSR – Japan MOE Guideline Comparison Table

Indication request item of the Guideline		CONTENTS
Basic Information: BI		
BI-1 CEO's statement		
a.	Environmental management policy	<a href="#">From the President</a> <a href="#">President's Message</a>
b.	The recognition of the status of the environment, the need for environmental initiatives within an organization, and the future prospect of the construction of a sustainable society.	
c.	The environmental policy and strategies of an organization corresponding to the industry, operational scale, character and overseas development; status of environmental impacts (significant environmental aspects) and a summary of environmental initiatives which reduce the negative environmental impacts, including targets and results.	
d.	A commitment to society concerning the implementation of such environmental activities, the achieving of targets by any promised time limit and the disclosure of results to the public.	
e.	The signature of the CEO	
BI-2 Fundamental requirements of reporting		
BI-2-1: Organizations, periods and areas covered by the reporting		
a.	Organizations covered by the reporting (Note: If environmental reporting has been published in the past, and changes were made in the organizations when compared to the latest reporting, such changes and their background need to be included.)	<a href="#">About the Report</a> <a href="#">Period and Scope of the Report</a>
b.	Reporting time period, the date issued, and schedule for the next issue (Note: If environmental reporting has been published in the past, the issue date of the latest version needs to be included.)	
c.	Reporting areas (environmental, social and economic fields)	
d.	Standards or guidelines that are used in conformity to, or as a reference (including ones specific to the industry)	
e.	The division in charge of the publication and means of contact	
f.	URL of the organization's website	
BI-2-2: Boundary of the reporting organization and coverage of environmental impacts		
a.	Percentage of the impacts caused by the reporting organization compared to the total business environmental impacts (the entire group for consolidated accounts). (i.e., Status according to the coverage of the environmental impacts)	<a href="#">About the Report</a> <a href="#">Period and Scope of the Report</a>
BI-3: Summary of the organization's business (Including Management indices)		

a.	Nature of the organization's business (kind of industry and type of operation)	Corporate Data.
b.	Major products and services (field of business)	<a href="#">Products</a>
		<a href="#">Business Overview</a>
c.	Amount of sales or production (consolidated or unconsolidated in the case of an entire group, or just the reporting organization).	<a href="#">Corporate Data</a>
d.	Number of employees (consolidated or unconsolidated in the case of an entire group, or just the reporting organization)	<a href="#">Corporate Data</a>
e.	Other information relating to management (e.g., total assets, total sales profits, operating profits, ordinary profits, net income and loss, and total value added)	<a href="#">IR Library</a>
		<a href="#">Financial Statements</a>
f.	Details of significant changes in organizational structure, composition of shareholders, or products/services that have occurred in the reporting period (if significant changes to the environmental impacts have occurred due to events such as, mergers, company break-up, sale of a subsidiary or operating division, new business opportunities, or construction of new plants)	-
BI-4: Outline of environmental reporting		
BI-4-1: List of major indicators		
a.	Summary of the organization's business, such as corporate name, sales figures, and total assets over the past five years or so (refer to BI-3)	<a href="#">Corporate Data</a>
		<a href="#">IR Library</a>
		<a href="#">Financial Statements</a>
b.	Status of compliance with environmental regulations	<a href="#">Compliance with Environmental Regulations</a>
	(refer to MP-2)	<a href="#">Environmental Audits</a>
c.	Changes in major environmental performance over the past five years or so	<a href="#">Material Balance</a>
		<a href="#">Environmental Performance Data</a>
BI-4-2: Summary of objectives, plans and results regarding environmental initiatives		
a.	Summary of targets, plans, results, and improvement measures regarding initiatives for environmental conservation	<a href="#">Targets &amp; Achievements of the 6th Environmental Plan</a>
BI-5: Material balance of organizational activities		
a.	An overall picture of the environmental impacts caused by the organization's activities	<a href="#">Material Balance</a>
Environmental Performance Indicators: MPI		
MP-1 Status of environmental management		
MP-1-1: Environmental policy in organizational activities		
a.	Environmental policy in organizational activities	<a href="#">From the President</a>
		<a href="#">President's Message</a>
		<a href="#">Group Environmental Policy</a>



		<u>Environmental Statement: Eco Changes</u>
		<u>Environmental Vision 2021</u>
		<u>6th Environmental Plan (Fiscal 2010-2012)</u>
		<u>7th Environmental Plan (Fiscal 2013-2015)</u>
		<u>Group Biodiversity Action Guidelines</u>
		<u>Environmental Management</u>
		<u>Targets &amp; Achievements of the 6th Environmental Plan</u>
MP-1-2: Status of environmental management systems		
a.	Status of environmental management systems	<u>Aiming to Achieve Environmental Vision 2021</u>
		<u>Environmental Management Structure</u>
		<u>Expanding ISO 14001 Conformity</u>
MP-2 Status of compliance with environmental regulations		
a.	Status of compliance with environmental regulations	<u>Compliance with Environmental Regulations</u>
		<u>Environmental Audits</u>
MP-3 Environmental accounting information		
a.	Costs of environmental conservation initiatives	<u>Environmental Accounting</u>
b.	Environmental effects relating to environmental conservation initiatives	
c.	Economical effects associated with environmental conservation initiatives	
MP-4 Status of environmentally conscious investment or financing (newly set)		
a.	Environmentally conscious policy, targets, plans, status of initiatives, and results related to investment and financing	<u>Environmental Accounting</u>
MP-5 Status of supply chain management for environmental conservation		
a.	Environmentally conscious policy, targets, plans, status of initiatives, and results related to the supply chain management	<u>Complying with Chemical Substance Regulations</u>
		<u>Procurement</u>
MP-6 Status of green purchasing or procurement		
a.	Fundamental policy, targets, plans, status of initiatives and results of green purchasing or procurement	<u>Procurement</u>
		<u>Green Procurement</u>

MP-7 Status of research and development of new environmental technologies and DfE		
a.	Policy, targets, plans, status of initiatives and results of research and development related to environmental technologies, engineering methods, and DfE	<a href="#">Product Development</a> <a href="#">Recycling End-of-Life Products</a>
MP-8 Status of environmentally friendly transportation		
a.	Policy, targets and plans for environmentally friendly transportation	<a href="#">Reducing CO2 from Logistics</a>
b.	Total volume of transportation and reduction measures: current status and results	<a href="#">Reducing the Use of Disposable Packaging Materials</a>
c.	Energy-induced CO2 emissions attributable to transportation, and reduction measures, the current status and results	
MP-9 Status of biodiversity conservation and sustainable use of biological resources		
a.	Policies, targets, plans, status of initiatives, and results related to conservation of biodiversity	<a href="#">President's Message</a> <a href="#">Respecting Biodiversity</a> <a href="#">Respecting Biodiversity</a> <a href="#">Targets &amp; Achievements of the 6th Environmental Plan</a>
MP-10 Status of environmental communication		
a.	Policy, targets, plans, status of initiatives, and results related to environmental communication	<a href="#">Environmental Communication</a>
MP-11 Status of social contribution related to environment		
a.	Policy, targets, plans, status of initiatives, and results of social contribution related to the environment	<a href="#">As a Corporate Citizen</a> <a href="#">"Satoyama" Woodland Preservation</a> <a href="#">Environmental Preservation</a> <a href="#">"Satoyama" Woodland Preservation</a>
MP-12 Status of products and services that contribute to the reduction of negative environmental impacts		
a.	Policies, targets, plans, and the status of initiatives and results related to products and services that contribute to the reduction of negative environmental impacts	<a href="#">Product Development</a> <a href="#">Environment-Related Business</a> <a href="#">Reducing CO2 from Power Generation</a> <a href="#">Environmental Statement: Eco Changes</a>
b.	Status of re-merchandizing (converting used items into marketable products) as stipulated by the Containers and Packaging Law, the Home Appliances Recycling Law, and the Automobile Recycling Law	<a href="#">Recycling End-of-Life Products</a>
Operational Performance Indicators: OPI		
OP-1 Total amount of energy input and reduction measures		

a.	Policy, targets, plans, status of initiatives, and results of reduction measures related to total energy input	<a href="#">Material Balance</a>
		<a href="#">Environmental Performance Data</a>
		<a href="#">Reducing CO2 from Production</a>
		<a href="#">Dialog on Environmental Management</a>
b.	Total amount of energy input (unit: joule)	<a href="#">Material Balance</a>
c.	Breakdown of total amount of energy input (the amount used by type) (unit: joule)	<a href="#">Environmental Performance Data</a>
OP-2 Total amount of material input and reduction measures		
a.	Measures to reduce total material input (or the purchased amount of main raw materials, etc. including containers and packaging materials) and policy, targets, plans, initiatives, results, etc. related to the effective use of renewable and recyclable resources	<a href="#">Reducing Resource Inputs</a>
		<a href="#">Recycling End-of-Life Products</a>
		<a href="#">Reducing the Use of Disposable Packaging Materials</a>
		<a href="#">Plastic Recycling Comes of Age</a>
b.	Total material input (or the purchased amount of main raw materials including containers and packaging materials) (unit: ton)	<a href="#">Material Balance</a>
c.	Breakdown of total material input (unit: ton)	
OP-3 Amount of water input and reduction measures		
a.	Policy, targets, plans, initiatives, results, etc. related to measures to reduce the amount of input water resources	<a href="#">Using Water Effectively</a>
		<a href="#">Membrane Separation Advances Water Recycling</a>
b.	Amount of input water resources (cubic meters, m3)	<a href="#">Material Balance</a>
		<a href="#">Environmental Performance Data</a>
		<a href="#">Using Water Effectively</a>
c.	Breakdown of input water resources (m3)	<a href="#">Material Balance</a>
		<a href="#">Environmental Performance Data</a>
		<a href="#">Using Water Effectively</a>
OP-4 Amount of materials recycled within an organization's operational area		
a.	Policy, targets, plans, initiatives, results, etc. related to the recycling-based use of materials (including water resources) in the facilities of an organization	<a href="#">Reducing Resource Inputs</a>
		<a href="#">Recycling End-of-Life Products</a>
		<a href="#">Plastic Recycling Comes of Age</a>
		<a href="#">Using Water Effectively</a>
		<a href="#">Membrane Separation</a>

		<a href="#">Advances Water Recycling</a>
b.	Amount of materials recycled in the facilities of an organization (unit: ton)	<a href="#">Recycling End-of-Life Products</a>
		<a href="#">Plastic Recycling Comes of Age</a>
		<a href="#">Using Water Effectively</a>
		<a href="#">Membrane Separation Advances Water Recycling</a>
c.	Type and amount of each material recycled in the facilities of an organization (unit: ton)	-
d.	Amount of water recycled in the facilities of an organization (unit: cubic meters) and measures to increase it	<a href="#">Using Water Effectively</a>
e.	Breakdown of the amount of water recycled (unit: cubic meters)	-
OP-5 Total amount of manufactured products or sales		
a.	Total amount of manufactured products or that of sold commodities	<a href="#">Material Balance</a>
OP-6 Amount of greenhouse gas emissions and reduction measure		
a.	Policy, targets, plans, initiatives, results, etc. related to measures to reduce greenhouse gas emissions, etc.	<a href="#">President's Message</a>
		<a href="#">From the President</a>
		<a href="#">Environmental Vision 2021</a>
		<a href="#">6th Environmental Plan (Fiscal 2010-2012)</a>
		<a href="#">7th Environmental Plan (Fiscal 2013-2015)</a>
		<a href="#">Highlights of Activities in Fiscal 2012</a>
		<a href="#">Targets &amp; Achievements of the 6th Environmental Plan</a>
		<a href="#">Reducing CO2 from Production</a>
		<a href="#">Reducing Emissions of Non-CO2 Greenhouse Gases</a>
		<a href="#">Dialog on Environmental Management</a>
b.	Total amount (converted to tons of CO2) of greenhouse gas emissions (six substances subject to the Kyoto Protocol) (The breakdown of the amount both in Japan and overseas is needed.)	<a href="#">Material Balance</a>
		<a href="#">Environmental Performance Data</a>
		<a href="#">Reducing CO2 from Production</a>
		<a href="#">Reducing Emissions of Non-CO2 Greenhouse</a>

		<a href="#">Gases</a>
		<a href="#">Highlights of Activities in Fiscal 2012</a>
		<a href="#">Targets &amp; Achievements of the 6th Environmental Plan</a>
c.	Breakdown by type of the amount (converted to tons of CO <sub>2</sub> ) of greenhouse gas emissions (six substances subject to the Kyoto Protocol)	<a href="#">Material Balance</a> <a href="#">Environmental Performance Data</a> <a href="#">Reducing CO<sub>2</sub> from Production</a> <a href="#">Reducing Emissions of Non-CO<sub>2</sub> Greenhouse Gases</a> <a href="#">Targets &amp; Achievements of the 6th Environmental Plan</a>
OP-7 Air pollution, its environmental impacts on the living environment, and reduction measures		
a.	Policy, targets, plans, initiatives, results, etc. related to measures to reduce the amount of released sulfur oxides (SO <sub>x</sub> ), nitrogen oxides (NO <sub>x</sub> ), and volatile organic compounds (VOC)	<a href="#">Material Balance</a> <a href="#">Environmental Performance Data</a> <a href="#">Reducing VOC Emissions</a>
b.	Each released amount (in tons) of sulfur oxides (SO <sub>x</sub> ), nitrogen oxides (NO <sub>x</sub> ), and volatile organic compounds (VOCs) according to the Air Pollution Control Law	<a href="#">Targets &amp; Achievements of the 6th Environmental Plan</a>
c.	Status of noise, etc. generated (in decibels) according to the Noise Regulation Law and reduction measures	-
d.	Status of vibrations, etc. generated (in decibels) according to the Vibration Regulation Law and reduction measures	-
e.	Status of offensive odors, etc. generated (specified offensive odor substance concentration or odor index) according to the Offensive Odor Control Law and reduction measures	-
OP-8 Amount of release and transfer of chemical substances and reduction measures		
a.	Chemical substance management policy and status of chemical substances being managed	<a href="#">Managing Chemical Substances</a>
b.	Policy, targets, plans, initiatives, results, etc. related to the released and transferred amount of chemical substances and reduction measures	<a href="#">Managing Chemical Substances</a> <a href="#">Material Balance</a> <a href="#">Environmental Performance Data</a> <a href="#">Targets &amp; Achievements of the 6th Environmental Plan</a>
c.	Initiatives, results, etc. concerning replacement of current chemical substances with safer ones	<a href="#">Managing Chemical Substances</a>
d.	Released and transferred amount of chemical	<a href="#">Managing Chemical</a>

	substances subject to the PRTR system based on the Law Concerning Reporting etc., of Release of Specific Chemical Substances to the Environment and Promotion of the Improvement of Their Management (unit: ton)	<a href="#">Substances in Production</a>
e.	Concentration of specified substances when released into the atmosphere (benzene, trichloroethylene, and tetrachloroethylene) among hazardous air pollutants controlled by the Air Pollution Control Law	
f.	Status of soil and groundwater pollution	<a href="#">Environmental Risk Management</a>
g.	Status of pollution by dioxins controlled by the Law concerning Special Measures against Dioxins	-
h.	Concentration of hazardous substances, controlled by the Water Pollution Control Law, contained in wastewater and specified underground infiltrated water	-
OP-9 Total amount of waste generation and final disposal and reduction measures		
a.	Policy, targets, plans, initiatives, results, etc. related to measures to prevent further wastes from being generated and to reduce, and recycle them	<a href="#">Material Balance</a> <a href="#">Environmental Performance Data</a>
b.	Total amount of discharged wastes (unit: ton)	<a href="#">Zero Emissions</a>
c.	Amount of final disposal wastes (unit: ton)	<a href="#">Targets &amp; Achievements of the 6th Environmental Plan</a>
OP-10 Total Amount of water discharge and reduction measures		
a.	Policy, targets, plans, initiatives, results, etc. related to measures to reduce the total amount of discharged wastewater	<a href="#">Membrane Separation</a> <a href="#">Advances Water Recycling</a>
b.	Total amount of discharged wastewater (unit: cubic meters)	<a href="#">Material Balance</a>
c.	Concentration (average and maximum values) of hazardous substances in wastewater (which are classified into health items, living environment items, and dioxins), the release of which is controlled by the Water Pollution Control Law and the Law Concerning Special Measures Against Dioxins; and the pollutant discharge load of the substances subject to the total volume control of the Water Pollution Control Law, etc., and reduction measures	-
d.	Breakdown of the amount of wastewater by discharge destination (unit: cubic meters)	-
Eco-efficiency indicator: EEI		
The Status of the Relationship between Environmental Considerations and Management		
a.	The relationship of economic value created by economic activities, such as value added, with environmental impacts caused by the same activities	-
Social Performance Indicators: SPI		
The Status of Social Initiatives		
(1) Information and indicators concerning industrial safety and hygiene		
	Policies, plans, and initiatives concerning industrial safety and hygiene	<a href="#">Ensuring Occupational Safety &amp; Health</a>

	Frequency and number of industrial accidents (number of accidents, details on serious accidents such as deaths, serious injuries, deaths from overwork, etc., and reporting required by the Law on Industrial Safety and Hygiene)	
	Policy and initiatives concerning the health care of employees (initiatives based on guidelines for research on danger and hazardousness, etc.,*1 initiatives based on guidelines on measures for business organizations to implement based on health examination results*2, the status of safety and health education being given, and initiatives based on guidelines on measures for business organizations to create a comfortable working environment*3)  *1 Guideline on research, etc. on danger and hazards (in Japanese) *2 Guidelines on measures for organizations to implement based on health examination results (in Japanese) *3 Guidelines on measures for organizations to create a comfortable working environment (in Japanese)	
	Frequency rate, severity rate, and number of non-attendance days	
	Expenditure on health and safety and expenditure per employee	-
	Initiatives based on guidelines for industrial safety and hygiene management systems*4  *4 Guidelines on industrial safety and hygiene management systems (in Japanese)	<u>Ensuring Occupational Safety &amp; Health</u>
	The minutes of the Industrial Health and Hygiene Commission and notification to all employees	-
(2) Information and indicators concerning employment		
	Policies, plans, and initiatives related to employment	<u>Workforce Diversity &amp; Equal Opportunity</u>
	Breakdown of labor force (percentages of permanent employees, temporary employees, short-term contract employees, part-time employees, etc., status of elderly people 109 employed, number of persons leaving organization in the previous year (by age, sex, and region), turnover rate (by age, sex, and region), and comparison of regular employment rate and regular employees as a percentage of all employees in the region)	-
	Wage conditions (ratio of the average wages of regular employees against those of non-regular employees; comparison of health insurance, maternity leave before and after childbirth, childcare leave, and retirement pensions between regular employees and non-regular ones)	-
	Status of how fairly job applicants are selected and employed	<u>Workforce Diversity and Equal Opportunity</u>
	Status of how personnel evaluations are conducted	<u>Creating a Fulfilling Workplace</u>
	Status of how education and training are carried out	<u>Supporting Career Development</u>
	Information according to the Equal Employment Opportunity Law for Men and Women (ratio of male to	<u>Workforce Diversity and Equal Opportunity</u>

<p>female directors and managers, ratio of male to female regular employees, and how the guideline on corporate voluntary activities for helping female employees fulfill their potential*5 has been followed) *5 Guidelines on corporate voluntary activities for helping female employees fulfill their potential 110 (in Japanese)</p>	
<p>Policies and initiatives related to the employment of the disabled, and the status of the disabled being employed according to the Disabled Employment Promotion Law (number of disabled employed and their employment rate)</p>	
<p>Policy on the employment of alien workers and the status of alien workers being employed</p>	-
<p>Status of public welfare (status of the extent that maternity leaves before and after childbirth and childcare have been taken, initiatives to support families raising children, off-duty education of employees and assistance for employees to participate in NPO activities, the status of the extent that paid holidays and ones not stipulated by law have been taken, and initiatives based on the Next-Generation Fostering Assistance Promotion Law)</p>	<u>Maintaining a Favorable Working Environment</u>
<p>Labor-management relations (ratio of organized labor, status of collective bargaining, basic policies on dismissal and employment adjustment and the status of how the policies have been adhered to, status of labor-management disputes and lawsuits, and the status of directions, recommendations, etc. conducted by the Labor Standards Inspection Bureau)</p>	-
<p>Initiatives to improve the workplace environment (status of how policies on prevention of sexual harassment have been clarified and made known to employees, status of whether a complaints procedure is in place and known to employees, initiatives to prevent bullying other than sexual harassment, and how complaints about bullying have been handled, to what extent the guidelines on AIDS problems in the workplace*6 have been adhered to, and to what extent the guidelines on items that a business proprietor should take into consideration in employment management when dealing with problems caused by sexual speech and behavior in the workplace*7 have been adhered to).</p> <p>*6 Guidelines on AIDS problems in the workplace (in Japanese) *7 Guidelines on items that a business proprietor should take into consideration in employment management when dealing with problems caused by sexual speech and behavior in the workplace (in Japanese)</p>	<u>Compliance</u>  <u>Respecting Human Rights</u>
(3) Information and indicators concerning human rights	
<p>Policy, plans, and initiatives related to human rights</p>	<u>Compliance</u>
<p>Status of measures being taken against discrimination</p>	<u>Respecting Human Rights</u>
<p>Status of measures taken to prevent child labor and forced or obligated labor (status of how programs for eliminating these kinds of labor, including supply chain management, have been carried out)</p>	<u>Responsibility to Business Partners Procurement Policy</u>
<p>Education and training for employees about human rights</p>	<u>Compliance</u>
	<u>Respecting Human Rights</u>



(4) Information and indicators concerning contributions to local communities		
Policies, plans, and initiatives for respect and protection of local culture and communities (in regions in Japan and abroad related to the activities of an organization)		<a href="#">Philanthropic Foundations</a>
Initiatives to social issues in developing countries, etc.		-
Status of fair trade and CSR procurement		<a href="#">To Business Partners</a>
		<a href="#">Procurement Policy</a>
Status of cooperation and assistance for provision of education and training in local communities		<a href="#">Philanthropic Activities</a>
		<a href="#">Science &amp; Technology</a>
Policies, plans, and initiatives related to social contributions other than for the environment		<a href="#">As a Corporate Citizen</a>
		<a href="#">Philanthropic Activities</a>
Status of assistance and provision to NPOs, industry groups, etc. amount of assistance, and goods supplied, etc.		-
(5) Information and indicators concerning corporate governance, corporate ethics, compliance, and fair trade		
Policies, systems, plans, and initiatives related to corporate governance, ethics, compliance, and fair trade (also applies for overseas activities)		<a href="#">Corporate Governance</a>
		<a href="#">Corporate Governance</a>
		<a href="#">Compliance</a>
Details of violations of laws other than environmental laws, details on the directions, recommendations, orders, punishments, etc. given by administrative agencies, and the number of them (laws mentioned above include the Anti-Monopoly Law, Law for the Prevention of Unreasonable Premiums and Misrepresentation Concerning Products and Services, Subcontract Law, Labor Standards Law, Worker Dispatch Law, Fair Competition Regulations, Consumer Products Safety Law, Specified Commercial Transactions Law, Product Liability Law, and Foreign Exchange and Foreign Trade Law)		<a href="#">President's Message</a>
		<a href="#">Compliance</a>
Details on all lawsuits other than environmental suits that have been filed or faced and their results		-
Status of whether a code of conduct has been formulated		<a href="#">Compliance</a>
Status of the initiatives on fair transaction, such as the compliance program of the Anti-Monopoly Law and the implementation of an Anti-Monopoly Law observance program; observation of the Law for the Prevention of Unreasonable Premiums and Misrepresentation Concerning Products and Services; measures to prevent delay in payment to subcontractors; and the implementation of a guidelines observance program for distribution trade practices.		
Policy, plans, and initiatives related to safeguards for those personnel who disclose information in the public interest (whistleblowers).		
(6) Information and indicators concerning personal information protection		
Policy, plans, and initiatives related to personal information protection		<a href="#">Risk Management</a>

		<u>Handling of personal information</u>
(7) Information and indicators concerning a wide range of consumer protection and product safety		
	Policies, plans, and initiatives related to consumer protection and product safety and quality	<u>Ensuring Consistent Quality</u>
	Policies and initiatives to secure the safety and hygiene of customers through the process of designing, manufacturing, selling (providing), using, and disposing of products and services	
	Names of organizations that confirm and certify that their main products and services meet safety standards and, as necessary, the procedures for confirmation and certification, numerical targets for the products and services to meet the standards, and to what extent the standards have been met	-
	In-house systems for complying with laws and self-imposed regulations on advertising and sales to customers	<u>Compliance</u>
	Measures to comply with the Product Liability Law, especially ones to secure the safety of customers in designing, manufacturing, and displaying products	<u>Ensuring Consistent Quality</u>
	After-sales service program including inspection and repair	<u>Increasing Customer Satisfaction</u>
	Status of whether a customer complaints system has been set up and the status of how complaints have been effectively dealt with (whether a system for dealing with customer complaints has been set up and how the complaints have been dealt with according to the Customer Basic Law and how many cases of damage caused by products have been reported according to the Consumer Products Safety Law)	
	Status of the extent that data to justify the quality indication and explanation of products, etc., required by the Law for the Prevention of Unreasonable Premiums and Misrepresentation concerning Products and Services, have been disclosed	-
	Status of how many faulty products, etc., have been recalled and collected	<u>Responding to Product-Related Issues</u>
	A program for improving the sales and consumer contract provisions in regards to compliance with the Consumer Contracts Law, Consumer Basic Law, Financial 112 Product Transactions Law, and the Specified Commercial Transactions Law, and the status of the extent that the program has been carried out	<u>Compliance</u>
(8) Economic information and indicators concerning organization's social aspects		
	Allocation of corporate value (value added) to stakeholders by types	-
	Names of parties that funds were donated to in areas other than the environment and the amount of donations	<u>Social Welfare</u>
		<u>Mitsubishi Electric America Foundation</u>
		<u>Mitsubishi Electric Thai Foundation</u>

		<a href="#">Disaster Relief</a>
	Status of whether tax liabilities have been met appropriately	-
(9) Information and indicators concerning other social aspects		
	Policy, plans, and initiatives related to conducting animal experiments	-
	Respect for and protection of intellectual property rights	<a href="#">Creating a Fulfilling Workplace</a>
	Policies, plans, and initiatives related to the handling, developing, manufacturing, and selling of weapons and products or goods that can be diverted to military use	-
	Record of winning awards	<a href="#">Awards 2011</a>
		Awards 2012