

# Environment

Basic Policy and Approach to Environmental Management 2016



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# Environment – Basic Policy and Approach to Environmental Management

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## ▶ Group Environmental Policy

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

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## ▶ Environmental Statement: Eco Changes

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

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## ▶ 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.

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## ▶ Aiming to Become a Global Leading Green Company

Read about the environmental management initiatives of the Mitsubishi Electric Group as it aspires to become a global leading green company.

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## ▶ Environmental Management

- ▶ Management Approach to Resolve Environmental Issues from the Long-term Perspective \* To Environmental Report 2016
  - ▶ Environmental Management Structure
  - ▶ Environmental Audits
  - ▶ Training of Environmental Personnel
  - ▶ Environmental Risk Management
  - ▶ Improving the level of environmental initiatives
- 

## ▶ Environmental Plan

- ▶ 8th Environmental Plan (Fiscal 2016-2018)
  - ▶ Evolution of the Environmental Plan (1st through 8th)
- 

## ▶ Environmental Considerations for Products

- ▶ Product Development
  - ▶ Factor X
- 

## ▶ Environmental Considerations for Procurement

Minimizing environmental risk through the Green Accreditation system based on the Green Procurement Standards Guide, while considering the preservation of biodiversity.

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## ▶ Creating a Society in Tune with Nature

- ▶ Group Biodiversity Action Guidelines
  - ▶ Mitsubishi Electric Outdoor Classroom
  - ▶ "Satoyama" Woodland Preservation Project \* To CSR Activities
  - ▶ Preserving biodiversity at business sites
- \* Please refer to the [Japanese page for more information.](#)
- 

Chinese language version of two of the above pages:

- ▶ 工厂保护生物多样性的活动

# Environment – Group Environmental Policy

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## Mitsubishi Electric Group Environmental Policy

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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.

April 1, 2014  
President & CEO  
Masaki Sakuyama



## Environment – Environmental Statement: Eco Changes

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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

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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.

### News Releases

June 30, 2010

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

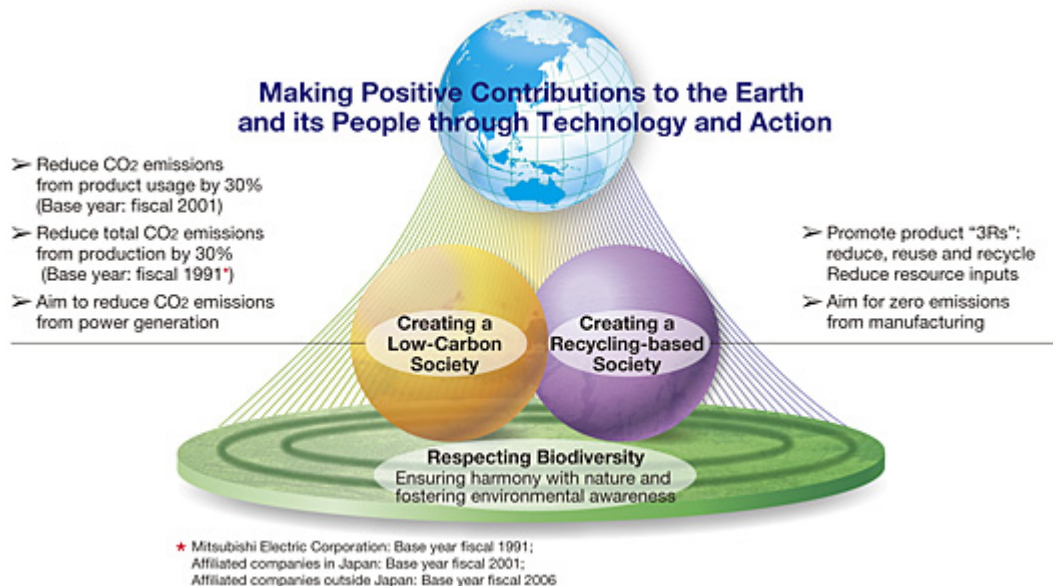


Learn more about Eco Changes and the activities related to it.

# Environment – Environmental Vision 2021

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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

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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

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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

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

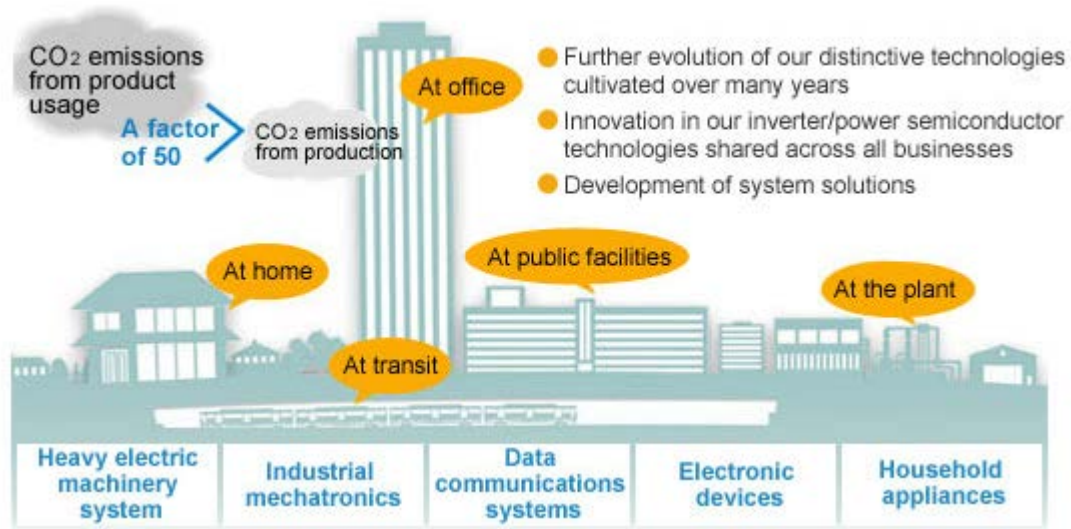
- Strive to respect biodiversity in our business activities
- Teach employees the importance of maintaining harmony with nature by providing opportunities for nature observation and direct participation in conservation activities to inculcate autonomous actions for the sake of the environment
- Engage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



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

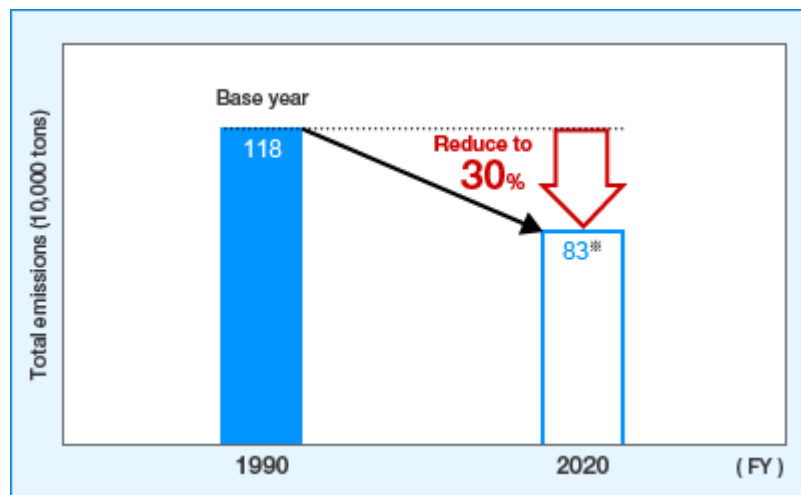
### Aiming to Reduce CO<sub>2</sub> Emissions from Product Usage by 30%

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



### Aiming to Reduce Total CO<sub>2</sub> 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 CO<sub>2</sub> emitted during production and contributing to the creation of a low-carbon society.



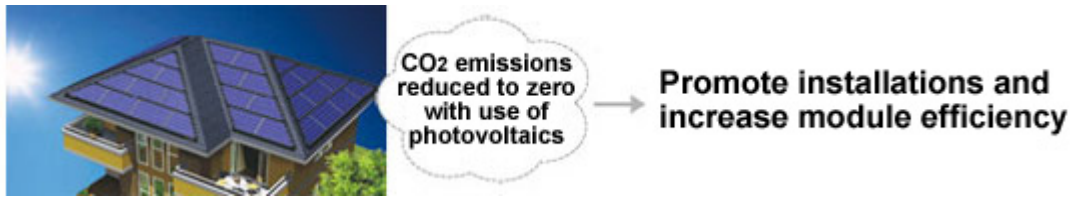
\* Mitsubishi Electric envisaged a fiscal 2021 total CO<sub>2</sub> emissions target of 830,000 tons based on a CO<sub>2</sub> emissions intensity of 0.33kg-CO<sub>2</sub>/kWh at the time its Environmental Vision 2021 was formulated. Taking into consideration changing electric power circumstances in 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 CO<sub>2</sub> Emissions from Power Generation

We will help 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 photovoltaic power and nuclear power systems.

## Helping to Reduce CO2 Emissions from Power Generation

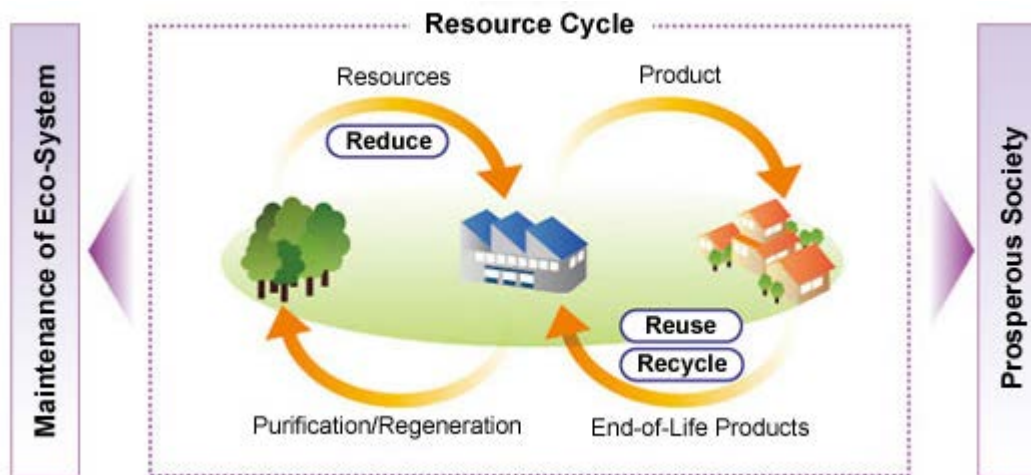
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## Initiatives to Help Create a Recycling-Based Society

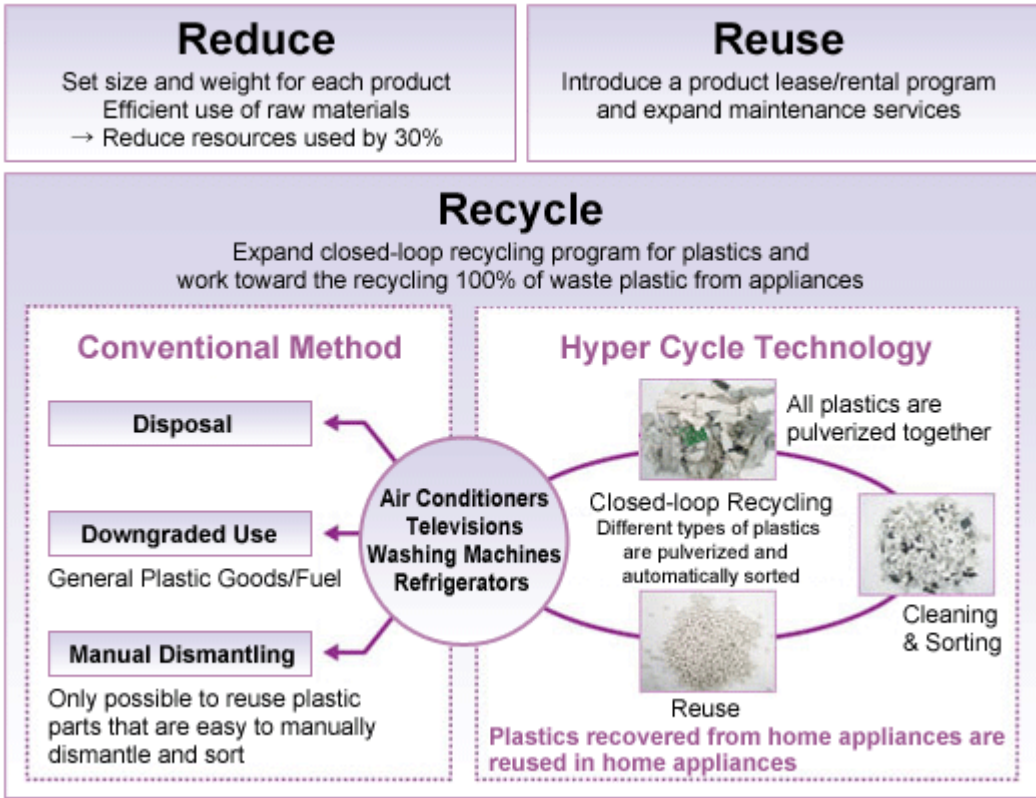
### Making Use of DfE and LCA Technologies to Promote the 3Rs

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

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

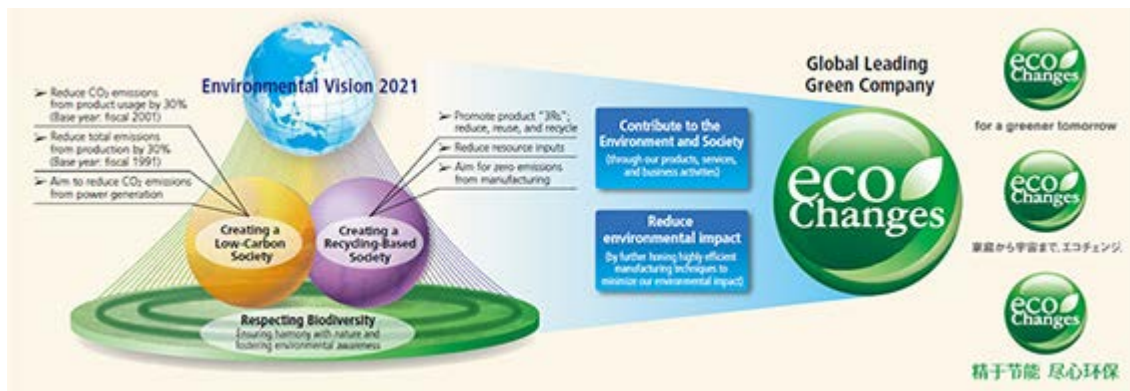
"Satoyama" Woodland Preservation Project involves local residents, employees, families, and nearly one million people from all over the world join forces to engage in this nature conservation activity.



# Environment – Aiming to Become a Global Leading Green Company

Mitsubishi Electric is aiming to grow as a global leading green company that contributes to creating a more affluent society. Based on our growth strategies and Environmental Vision 2021, we are working to realize a sustainable society in which people around the world live contentedly and in comfort, and where diverse forms of life coexist.

Specifically, our actions are based on three pillars set forth in Environmental Vision 2021: "creating a low-carbon society," "creating a recycling-based society" and "respecting biodiversity." In all business areas, we see it as our mission to promote the development of innovative products and services high in energy- and resource-efficiency, and to distribute them throughout society, while at the same time reducing the environmental impact of our activities. Accordingly, initiatives based on the three pillars are implemented for material procurement, manufacturing, distribution, and all other business activities. We are also expanding initiatives like these at the global level, which is the practical application of Eco Changes, our environmental statement, thereby affirming our commitment to contributing further to the realization of a more affluent society.



➤ ZOOM

Mitsubishi Electric is aiming to be a global leading green company that contributes to the creation of a more affluent society. We will continue to put Eco Changes into practice as a way of changing our own actions and changing society to be more eco-conscious.

➤ **Environmental Statement: Eco Changes**

➤ **Environmental Vision 2021**

➤ **From the President**

# Environment – Environmental Management

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## ▶ Management Approach to Resolve Environmental Issues from the Long-term Perspective

Report on Mitsubishi Electric Group's long-term perspective for resolving environmental issues, importance evaluations, and management approach for each environmental aspect.

\*To Environmental Report 2016

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## ▶ Environmental Management Structure

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

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## ▶ 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.

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## ▶ Training of Environmental Personnel

Report on Mitsubishi Electric's environmental education system, and the progress of educational and training activities for environmental personnel.

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## ▶ Environmental Risk Management

Report on initiatives to ensure reliable handling of environmental regulations and prevent environmental accidents, as well as on policies and conditions relating to soil and groundwater pollution, and the management and processing policies and conditions for PCBs.

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## ▶ Improving the Level of Environmental Initiatives

Introduction to activities for visualizing the environmental load and level of environmental initiatives at each manufacturing base that lead to improvement.

# Environment – Environmental Management Structure

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## Global Environmental Management Promotion System

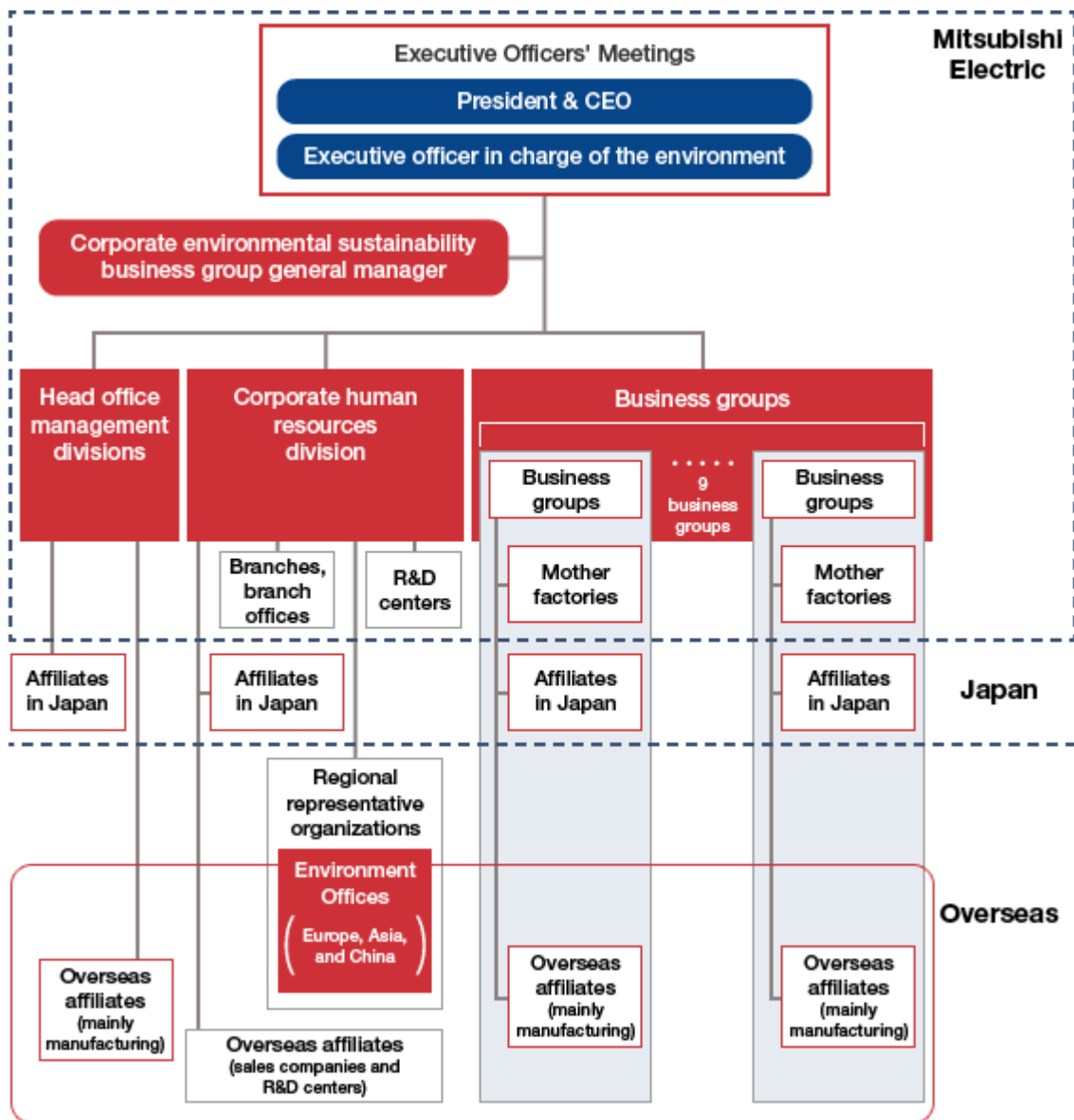
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In the Mitsubishi Electric Group, each organization developing global business has an environment management system (EMS), and overall Group operations are integrated. More specifically, when drawing up its own environmental action plan, each organization shares the Group's environmental plan (three-year plan) as a common objective to be achieved and sets its goals accordingly.

The EMS of the Mitsubishi Electric Group has the same organizational structure as that of the Company. Each business group responsible for business operations is responsible for promoting the EMS, and conducts and manages the environmental activities of its jurisdictional works, affiliates in Japan, and overseas affiliates. In the same way, other head office divisions excluding the business groups at the headquarters (e.g., head office management divisions and Corporate Human Resources Division) manage environmental activities at jurisdictional business sites and affiliate companies.

Additionally, overseas affiliates introduce, conduct, and manage their activities based on the same organizational structure and management system while focusing on their own regions of influence. Among the overseas affiliates in Europe, Asia, and China, there is a representative department in each region that functions as the head office. Referred to as Environment Offices, these departments are the driving force behind environmental activities for all of the affiliated companies in their jurisdictional region, and are involved in matters such as developing measures in common with the Group and supporting the ongoing activities of each affiliate company.

The members of the Executive Officers' Meetings, in which the President of Mitsubishi Electric Corporation serves as the chairman, draft the guidelines for the environmental management activities of the Mitsubishi Electric Group. This includes making decisions regarding environmental plans, checking on the progress of environmental activities, and appointing the Executive Officer in Charge of the Environment—responsible for promoting environmental management—and the General Manager of the Corporate Environmental Sustainability Business Group, who supports the Executive Officer. Furthermore, the head office management divisions, Corporate Human Resources Division, business groups, branches, and business sites including factories, R&D centers, and affiliated companies each have a person in charge of promoting environmental activities. This person is or is appointed by the head of each base and affiliate company to manage and monitor the environmental plan, including its execution and environmental performance, as part of his or her management and supervision responsibilities.



## Scope of environmental management

Mitsubishi Electric positions environmental management as an essential component of corporate governance. The scope of our environmental governance extends throughout the Company and our major affiliates.

### Major affiliates

- Consolidated companies: Companies with 50% or more of shares owned by Mitsubishi Electric (voting rights ratio), and companies that Mitsubishi Electric has management hegemony over.
- Non-consolidated companies: Companies judged to require integrated environmental management by Mitsubishi Electric.
- 191 companies overall, including 112 in Japan and 79 overseas.



## Verification of Activity Results Using a Management Cycle

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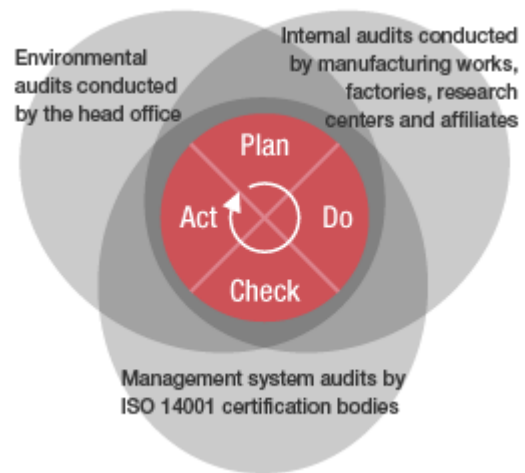
### Continual verification of activity results



# Environment – Environmental Audits

## 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, factories, R&D centers, and affiliated companies. These audits look into the implementation status 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, and the handling of chemical substances.

The results of audits are reported to the President by the Executive Officer in Charge of the 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, helping to improve the content of activities at all offices.

In fiscal 2016, we performed environmental audits at 69 sites in Japan: 9 at factories, 11 at head office divisions, 7 at branches, and 42 at affiliated companies in Japan, 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.

# Environment – Training of Environmental Personnel

## Developing personnel to proactively engage in environmental activities

We are working to develop personnel who think for themselves what is required for the environment and act on it. Based on this, we will continue our environmental activities in the years to come as we work to achieve Environmental Vision 2021 and our environmental plans.

In the area of environmental training, we have implemented various educational programs in two categories: general education and specialized education. The goal of the specialized education program is for personnel to acquire the knowledge and skills required to create a low-carbon, recycling-based society, respect biodiversity, and conduct the environmental management activities that form the pillars of Environmental Vision 2021.

As part of our 8th Environmental Plan (fiscal 2016 - 2018), we have extended our on-demand "Mitsubishi Electric Group Environmental Management" course—the aim of which is to improve the basic knowledge and awareness level of environmental issues, as well as the ability to take action—to 98 affiliated companies in Japan and overseas.

### Environmental Education System

Target Field	General employees	Managerial staff
Environmental awareness education	<b>Activities to foster environmental awareness</b> <ul style="list-style-type: none"> <li>● Preserving biodiversity at business sites</li> <li>● "Satoyama" Woodland Preservation Project</li> <li>● Mitsubishi Electric Outdoor Classroom</li> </ul>	
Specialized education	<b>Key Environmental Personnel Training</b>	Environmental Promotion Chief Administrator Training  Environmental Section Manager Training
	<b>MELCO Seminar Environmental Courses</b> <ul style="list-style-type: none"> <li>● Waste</li> <li>● Energy-saving</li> <li>● Chemical Substances</li> <li>● Environmental Risk</li> <li>● Design for the Environment</li> <li>● Biodiversity</li> <li>● Environmental Audits</li> <li>● ISO14001</li> </ul>	
General education	Environmental Training Course for Employees in Their 20s or 30s  Environmental Course for Employees Dispatched Overseas	Environmental Training Course for New Section Managers
	<b>e-Learning for all employees, Mitsubishi Electric Environmental Management</b>	
Basic education	Common basic training for new employees	



e-Learning is being conducted using teaching materials created in Japanese, English and Chinese.

## Global Promotion of Key Environmental Personnel Training

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The Mitsubishi Electric Group has been carrying out Key Environmental Personnel Training in Japan and overseas in order to foster personnel who will play a leading role in its environmental management activities.

In fiscal 2016, overseas training was conducted in China and Thailand. The contents of the training courses varied from region to region. For instance, a group discussion was held among participants from several bases in Thailand. Based on an evaluation of the level of environmental initiatives at each base, a focus was placed on plumbing, and the group embarked on visualizing the types and flows of wastewater and steam, sharing excellent case examples.

In this way, we are developing personnel capable of improving their environmental initiatives from various angles by sharing each base's efforts and evaluating them.

## Developing Nature Protection Leaders

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Mitsubishi Electric Outdoor Classrooms are held in the fields adjacent to business sites, enabling participants and employees who are training to become leaders to experience nature together. Under the theme of harmony with nature, the objective of these classrooms is to develop the ability to take action toward improving the environment, and create leaders out of like-minded employees who will plan and execute such action. In the leader development course, which is an employee training program, participants learn about the relationship between living creatures, safety management, child physiology, and communication skills through field study and classroom training. A total of 18 development courses have been held from fiscal 2007 to fiscal 2016, with a total of 352 participants.

New programs have been added to the development course since fiscal 2017 in order to provide a more attractive classroom for a wider range of age groups, as well as to enhance nature observation techniques that engage children further.



Classroom training combining lectures and group work



Utilizing knowledge and skills to teach children the importance of protecting nature.

# Environment – Environmental Risk Management

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## Preventing Environmental Incidents through Information-Sharing and Equipment Inspections

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Both within Japan and overseas, the Mitsubishi Electric Group strives to prevent environmental incidents, such as the leakage of substances that may result in water or soil pollution or have a negative impact upon the environment.

To achieve this, Mitsubishi Electric ensures that its employees are fully familiar with the relevant laws and regulations, revises company rules to reflect any updates to such laws and regulations, and ensures these updates are made known throughout the Group. In the case of a problem (e.g., minor oversight, etc.) occurring, Mitsubishi Electric shares the cause and countermeasures throughout the entire Group to prevent it from reoccurring.

Aiming to increase the awareness of environmental risk management, the company's offices and factories and the bases of affiliated companies in Japan watch internal training DVDs that introduce examples of problems and the establishment and renewal of important laws, thereby firmly instilling environmental management issues across a wider range of occupational levels. In addition, periodic facilities inspections are carried out at all Group bases, the results of which are compiled into measures from time to time and utilized.

Environmental surveys are also conducted at major affiliated companies overseas in an effort to uncover and prevent environmental risks.

## Responding to Soil and Groundwater Pollution

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As stated in our internal rules, Mitsubishi Electric and its Japanese and overseas affiliated bases (factories, affiliated companies, business sites, etc.) conduct assessments based on a survey method, complying with the relevant laws and regulations whenever required (e.g., land modifications, etc.), and implementing the necessary countermeasures or solutions depending on the state of pollution.

In FY2016, we assessed survey results and countermeasures regarding the condition of soil and groundwater due to land utilization for a total of 19 cases (Mitsubishi Electric: 15 cases, affiliate companies: 4 cases) and have confirmed that all cases were handled appropriately.

Regarding areas that were recognized as having groundwater or soil pollution problems in the past, we implemented purification countermeasures using methods compliant with laws and regulations, and continue to regularly report the results of our monitoring to relevant government organizations.

## Appropriate Storage and Processing of PCB Waste and Devices Containing PCBs

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Mitsubishi Electric conducts inspections at all bases that store PCB waste and/or use devices containing PCBs at least once a year to confirm the storage and usage status. Regarding the processing of PCB waste, in fiscal 2007 we entered into a contract with the Japan Environmental Storage & Safety Corporation (JESCO)—which was known as Japan Environmental Safety Corporation until December 2014—and have been carrying out systematic processing based on this ever since.

In FY2016, the processing of 126 units was completed, and we plan to continue processing in line with the agreed plan. Japanese affiliates are carrying out systematic processing as well.

Customers can confirm whether or not an electrical device manufactured by a company in the Mitsubishi Electric Group contains PCB by referring to a list available on the corporate website.

## Handling Transformers and Other Devices with Trace Amounts of PCB

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Regarding 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, post-delivery contamination, and contamination via insulating oil. However, as it has not been possible to identify the cause, device, or date of manufacture, we have concluded that we cannot rule out the possibility of trace PCB contamination in electrical devices that were manufactured prior to 1989 and that use electrical insulating oil.

However, considering the increased quality control of insulating oil, we have determined that there has been no contamination by trace PCBs at the time of product shipment for devices manufactured from 1990 onward. Moving forward, we will continue to uphold stringent quality control for insulating oil, and provide

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Moreover, Mitsubishi Electric is a member of a PCB processing committee, The Japan Electrical Manufacturers' Association, and contributes by providing information as an industry group and investigating processing measures.

Mitsubishi Electric stores waste with trace amounts of PCB in facilities, etc. certified by Japan's Minister of the Environment.



# Environment – Improving the Level of Environmental Initiatives

## Visualizing the level of environmental initiatives at manufacturing bases using uniform standards

The Mitsubishi Electric Group has identified strengthening its environmental management foundation as one of the objectives for the 8th Environmental Plan (fiscal 2016 - 2018). In line with this goal, we evaluated the status of 90 manufacturing bases in Japan and overseas in fiscal 2016 utilizing a unique check sheet that visualizes environmental load and the effectiveness of our environmental initiatives. An original check sheet was designed to help us separately evaluate environmental loads and the effectiveness of environmental initiatives on a scale of 1 to 100 points in five areas; namely, atmosphere, water quality, chemical substances, climate change, and waste.

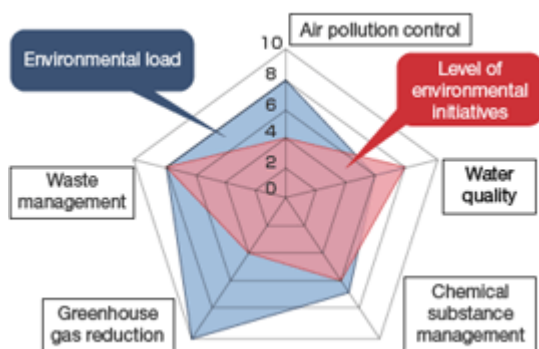
The resulting evaluations are reflected in the environmental plans drawn up by each business division and the improvement activities implemented at each base. We have also designed most of the check sheet to be utilized as a communication tool between bases, enabling them to share the details of their improvement activities. For example, in China, 26 chief environmental management administrators from 14 manufacturing bases throughout the country gathered to discuss how to conduct emergency drills and other issues (Oct. 2015). Furthermore, in Thailand, 16 people representing six manufacturing bases in the country met to select good examples, and a fluids management case was shared where the types of plumbing were identified with colors and symbols, effectively using visualization to improve the level of environmental initiatives.

For fiscal 2018, the final year of the 8th Environmental Plan, the goals of the Mitsubishi Electric Group are to achieve 100 out of 100 points for all manufacturing bases, an average of 90 points for domestic affiliates, and an average of 80 points for overseas affiliates.

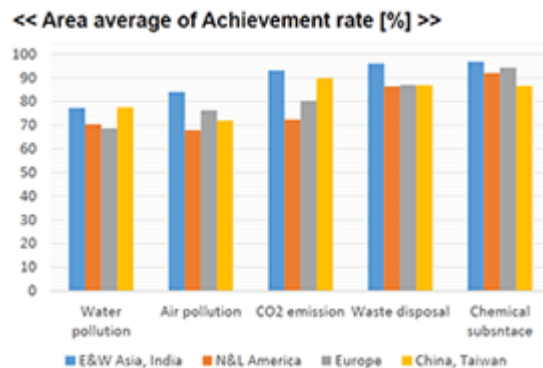
### Example of evaluation criteria for check sheet

	Air pollution control	Water quality	Chemical substance management	Greenhouse gas reduction	Waste management
Environmental load	Amount of gas emissions, air pollution control-related facilities, etc.	Amount of water intake / wastewater, etc.	Amount of usage, etc.	Amount of greenhouse gas emission, etc.	Amount of waste, etc.
Evaluation criteria for initiatives	Analysis of gas emissions, anti-leak measures for liquid fuels, etc.	Wastewater analysis, facility inspections, emergency drills, etc.	Ascertain usage volumes, emergency drills, etc.	Set targets, etc.	Leak prevention, inspections of contractors, etc.

### Visualizing the level of environmental initiatives



### Fiscal 2016 Comparison of Environmental Initiative Evaluation by Region





Discussing issues and measures in groups while reviewing check sheet



Checking premises and sharing good examples of environmental systems management methods



## Environment – Environmental Plan

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Since fiscal 1994, the Mitsubishi Electric Group has prepared an environmental plan for environmental activities every three years, implementing initiatives designed to enhance environmental management. The environmental plan introduces specific activities required in order to achieve the goals set in the long-term environmental vision, Environmental Vision 2021.

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### ▶ **8th Environmental Plan (Fiscal 2016-2018)**

Introduction of the items in the 8th Environmental Plan implemented in April 2015 and the contents of major initiatives.

### ▶ **Evolution of the Environmental Plan (1st through 8th)**

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

## Environment – 8th Environmental Plan (Fiscal 2016–2018)

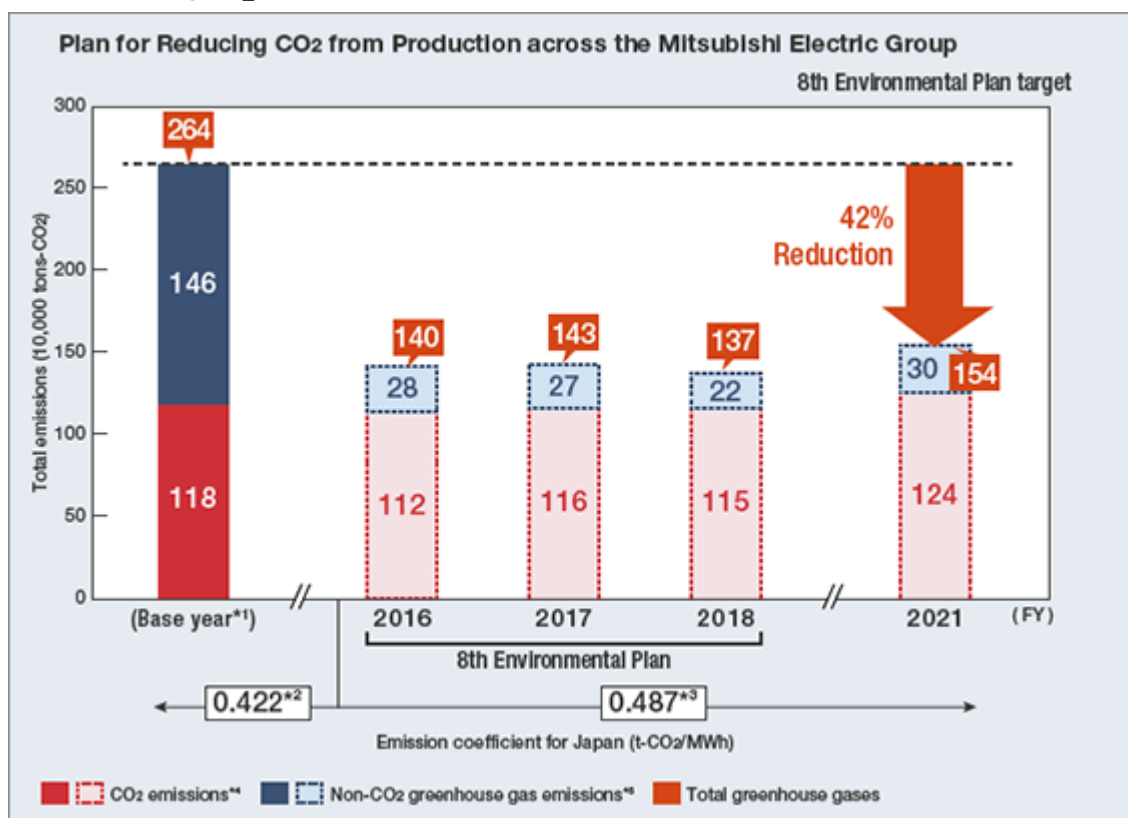
The 8th Environmental Plan focuses on "reducing all greenhouse gases" and "improving global-level environmental response" with the objective of realizing Environmental Vision 2021. The major initiatives being promoted are explained below.

### Initiatives toward Creating a Low-carbon Society

#### Reducing CO<sub>2</sub> from production

In order to comprehensively evaluate and manage the impact on global warming, objectives targeted individually in the 7th Environmental Plan—, "reducing CO<sub>2</sub> from production" and "reducing non-CO<sub>2</sub> greenhouse gases (SF<sub>6</sub>, HFCs, and PFCs)" —have been combined.

Plan for Reducing CO<sub>2</sub> from Production



\*1 Base year for CO<sub>2</sub>: Mitsubishi Electric parent company, fiscal 1991; affiliates in Japan, fiscal 2001; and overseas affiliates, fiscal 2006.

Base year for non-CO<sub>2</sub> greenhouse gasses: Mitsubishi Electric parent company and affiliates in Japan, fiscal 2001; overseas affiliates, fiscal 2006.

\*2 Figure published by the Japan Electrical Manufacturers' Association (JEMA) in 1997.

\*3 Figure published by the Federation of Electric Power Companies of Japan at the time of drawing up the 8th Environmental Plan (in 2013, when two nuclear power stations were operational)

\*4 Figure published by JEMA in 2006 has been referred to for calculating the overseas emission coefficient.

\*5 Figure published in IPCC's Second Assessment Report was referred to for calculating the Global Warming Potential (GWP) for non-CO<sub>2</sub> greenhouse gases.

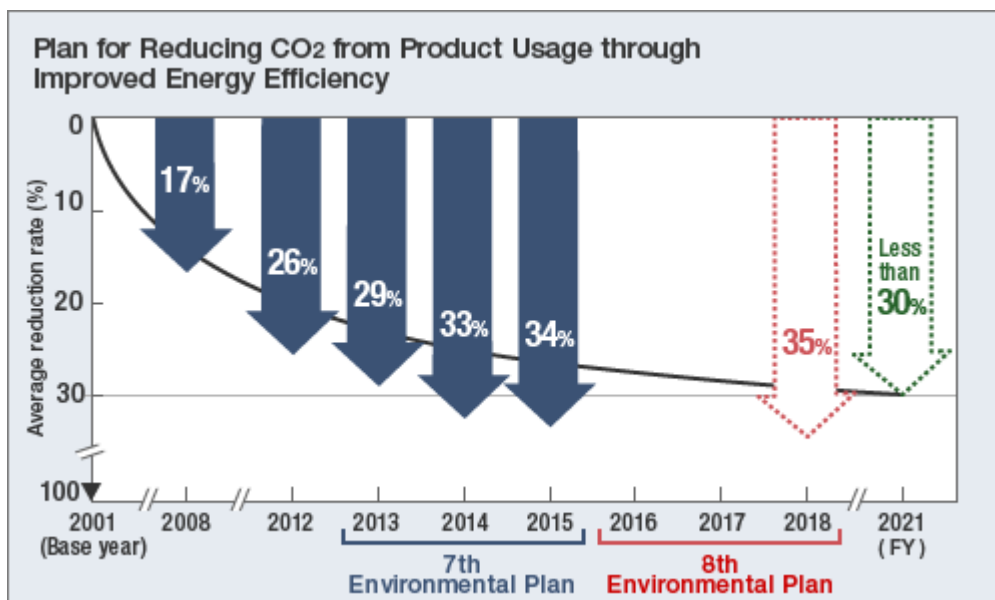
Measures for Reducing Greenhouse Gases Excluding CO<sub>2</sub>

Greenhouse Gases	Past Measures	2013	2014	2015	2016	2017	2018	2021	
SF <sub>6</sub> (Sulfur hexafluoride)	Vacuum pump Abatement system Early gas-leakage detection	Japan: Increase capacity of gas collection equipment							
HFCs (Hydrofluoro-carbons)	Recovery	Japan: Switch refrigerant							
		Japan: Finished construction of refrigerant recovery scheme				Overseas: Construct refrigerant recovery and disposal scheme			
PFCs (Perfluoro-carbons)	Abatement system	Japan: Expand introduction of abatement systems							

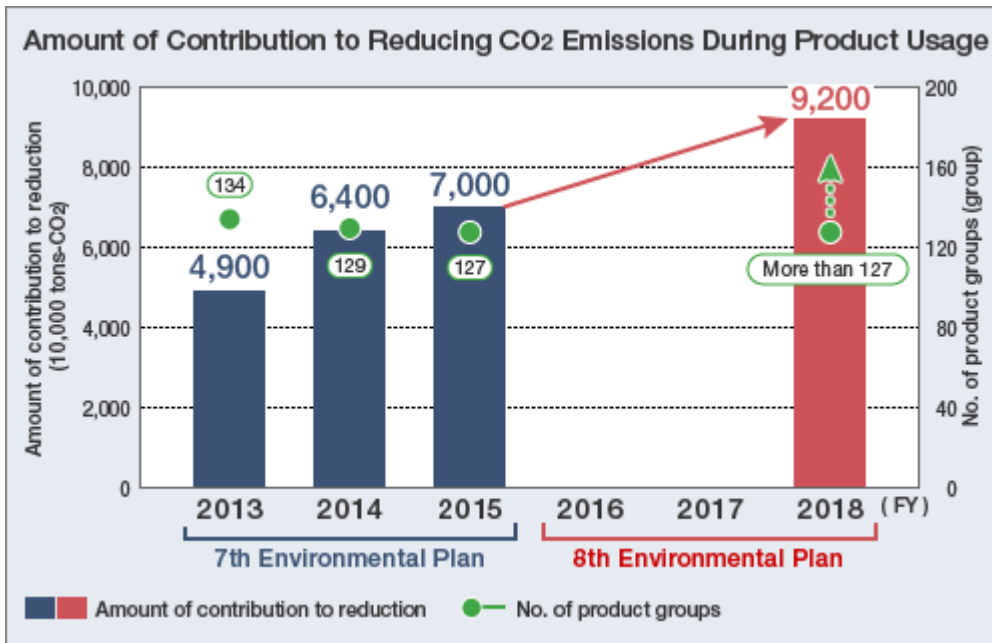
**Contribution to reducing CO<sub>2</sub> from product usage**

Continue the initiatives of the 7th Environmental Plan focusing on "reducing CO<sub>2</sub> emissions from product usage by improving product performance" and "visualizing and expanding the contribution to reducing CO<sub>2</sub> emissions during product usage."

Plan for Reducing CO<sub>2</sub> from Product Usage through Improved Energy Efficiency



## Amount of Contribution to Reducing CO<sub>2</sub> Emissions During Product Usage

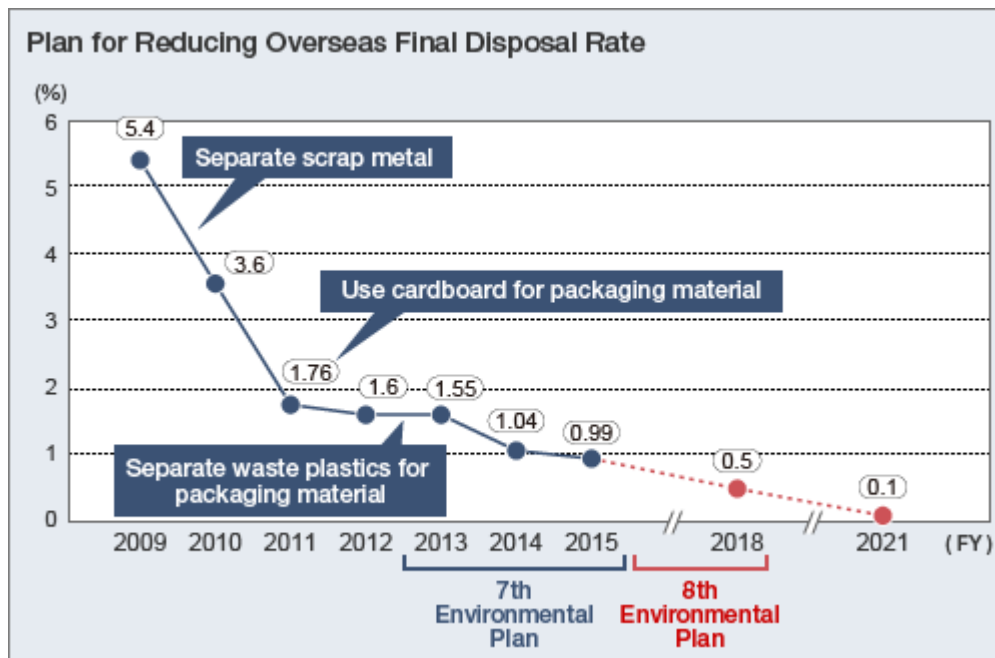


## Initiatives toward Creating a Recycling-based Society

### Promoting effective resource utilization at business sites

The values targeted for the final disposal rates of Mitsubishi Electric and its affiliates in Japan have been achieved to date, and those levels will be maintained. Overseas affiliates aim to improve performance in this area in all regions by strengthening the activities at each site, and also by selecting sites where important reinforcement measures will be introduced on the basis of priority.

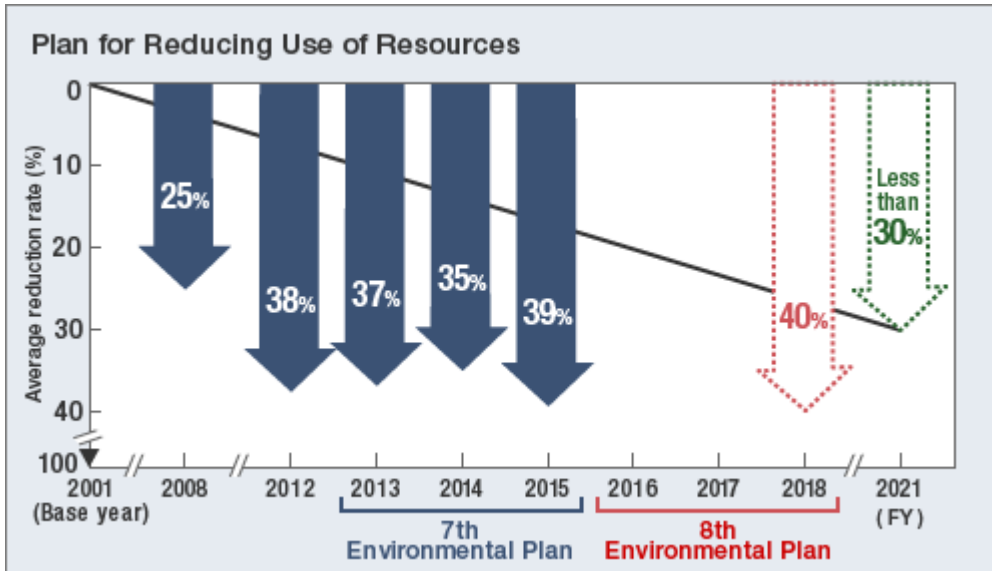
### Plan for Reducing Overseas Final Disposal Rate



### Reducing resource inputs

Promotion includes the goal of reducing resource inputs during product development planning.

## Plan for Reducing Use of Resources



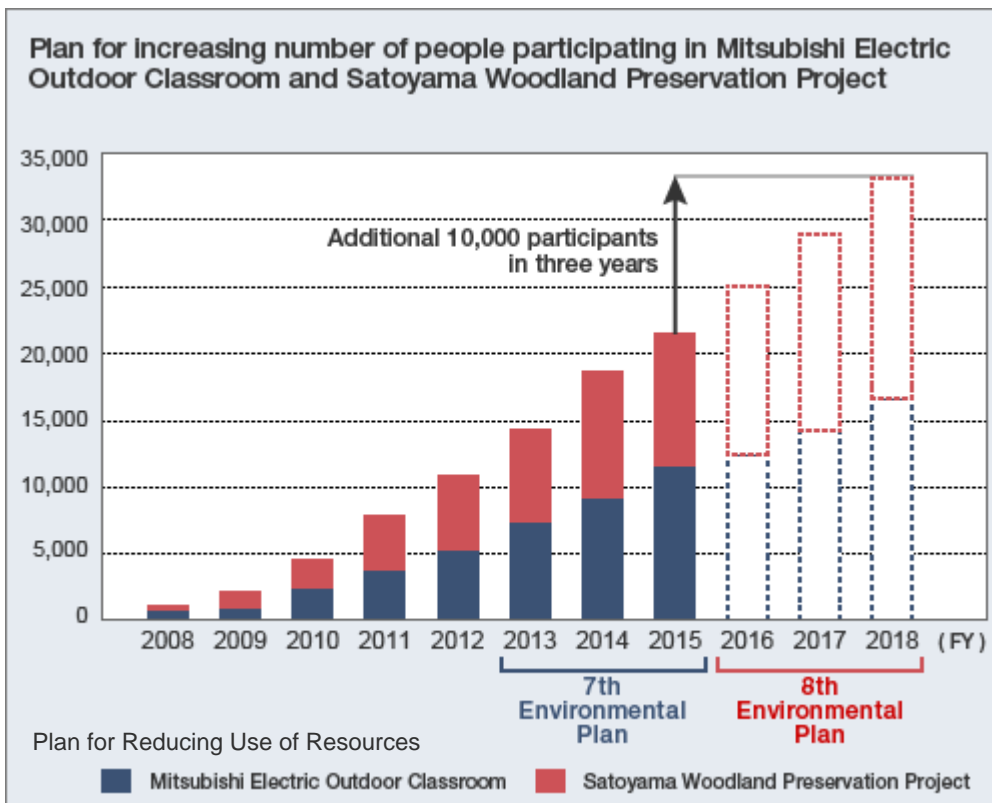
### Visualization of resource recycling business

A business scale that leads to improving resource efficiency, including product recycling and the renovation/maintenance of facilities, is being visualized. Cooperation will be enhanced by sharing case examples and technological information cross-sector throughout the Group, and environment-related business will be expanded.

## Initiatives to Create a Society in Tune with Nature

### Fostering environmental awareness

Mitsubishi Electric Outdoor Classrooms and the Satoyama Woodland Preservation Project will continue to be held, with the aim of increasing the total number of participants to 10,000 in the three-year period; thereby bringing the cumulative total to more than 30,000. Additionally, the "Mitsubishi Electric Group's Environmental Management" e-learning program that started in fiscal 2015 will be expanded to enable use by affiliate companies in Japan and overseas affiliates.



### Preserving biodiversity at business sites

At all of our business sites in Japan, we promote preserving endemic species unique to the region. We also foster a better understanding between employees and local communities.

## Strengthening Our Environmental Management Foundation

### Compliance with environmental regulations

To ensure compliance with RoHS chemical substance regulations in Europe, we are stepping up efforts to develop alternative technologies via special interest groups and our website.

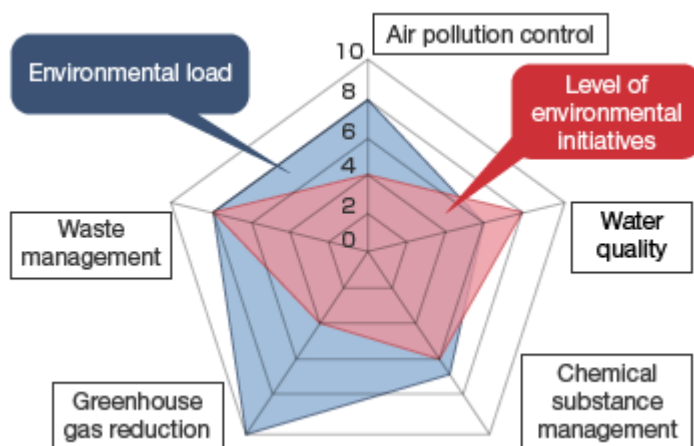
### Improving the level of environmental initiatives at manufacturing bases

Regarding environmental load and level of environmental initiatives at manufacturing bases in Japan and overseas, an original index was formulated for the five fields of air pollution control, water and soil pollution control, chemical substance management, greenhouse gas reduction, and waste management in order to evaluate them. Additionally, looking to the overseas manufacturing bases that are prioritized to receive reinforcement measures first, plans are to reduce environmental load and improve the level of environmental initiatives.

Example of evaluation criteria for initiatives in five fields

	Air pollution control	Water quality	Chemical substance management	Greenhouse gas reduction	Waste management
Environmental load	Amount of gas emissions, air pollution control-related facilities, etc.	Amount of water intake / wastewater, etc.	Amount of usage, etc.	Amount of greenhouse gas emission, etc.	Amount of waste, etc.
Evaluation criteria for initiatives	Analysis of gas emissions, anti-leak measures for liquid fuels, etc.	Wastewater analysis, facility inspections, emergency drills, etc.	Ascertain usage volumes, emergency drills, etc.	Set targets, etc.	Leak prevention, inspections of contractors, etc.

Image of visualization

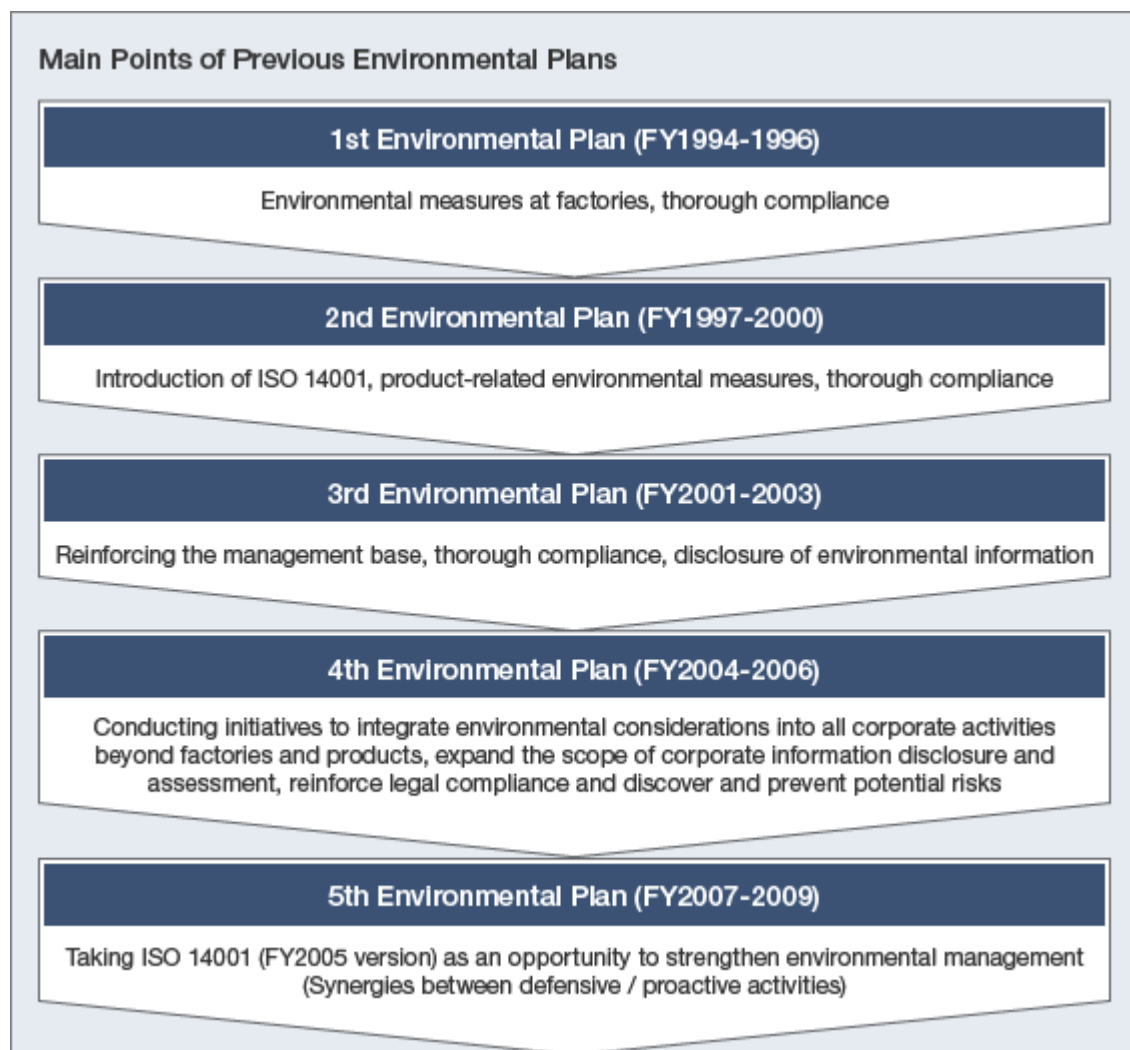


## Environment – Evolution of the Environmental Plan (1st through 8th)

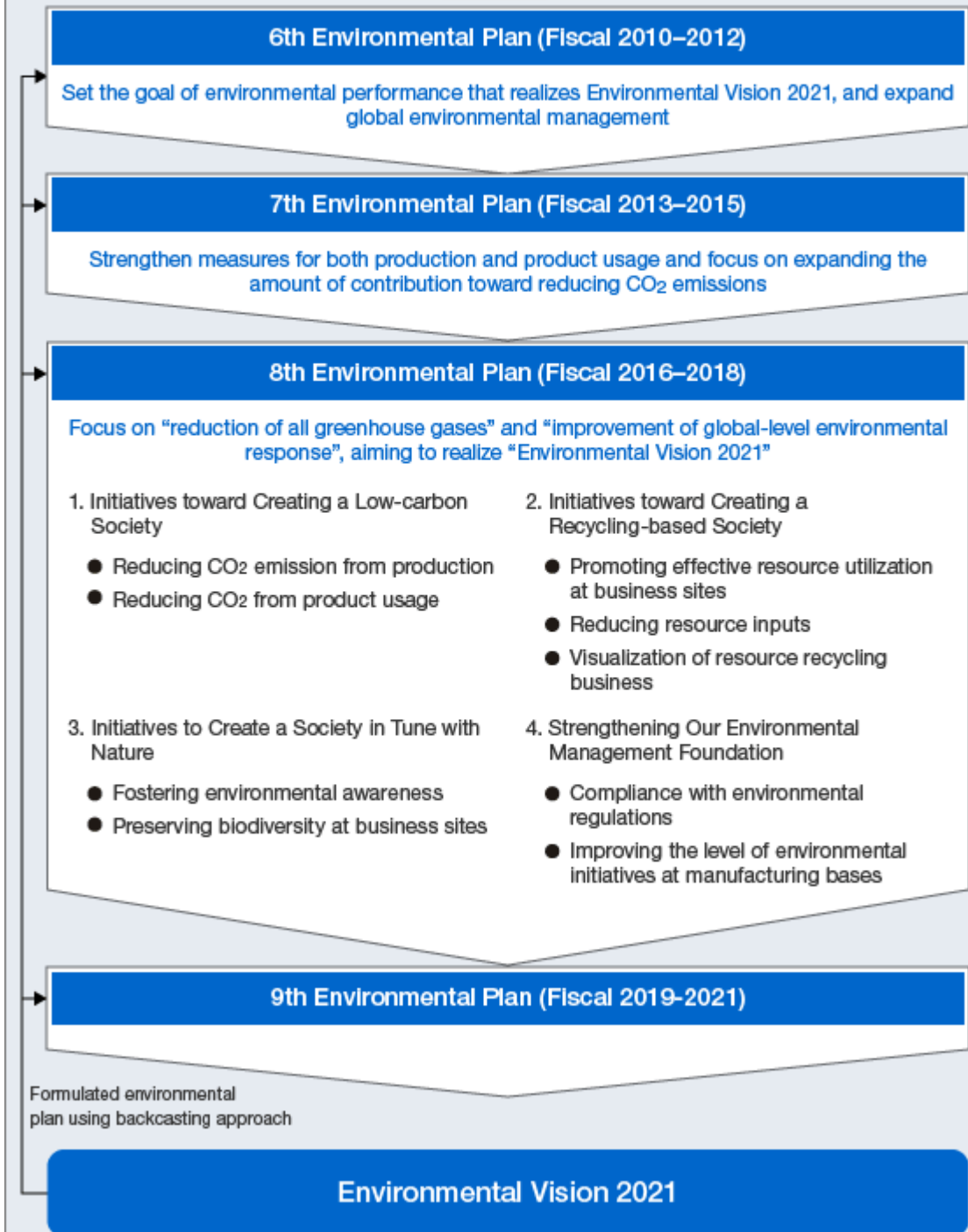
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Approximately every three years since fiscal 1994, the Mitsubishi Electric Group has formulated an environmental plan with specific targets. During this period, we have progressively stepped up our environmental activities based on the degree to which 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 8th Environmental Plan (fiscal 2016-2018).



"Environmental Vision 2021" established in October 2007





# Environment – Environmental Considerations for Products

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## ▶ Product Development

With the intention of reducing environmental load throughout the entire lifecycle, Design for the Environment is carried out based on international standards.

In line with the goals of Environmental Vision 2021, we are moving forward with a focus on reducing CO<sub>2</sub> emissions during product use and improving resource efficiency.

## ▶ 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.

# Environment – Product Development

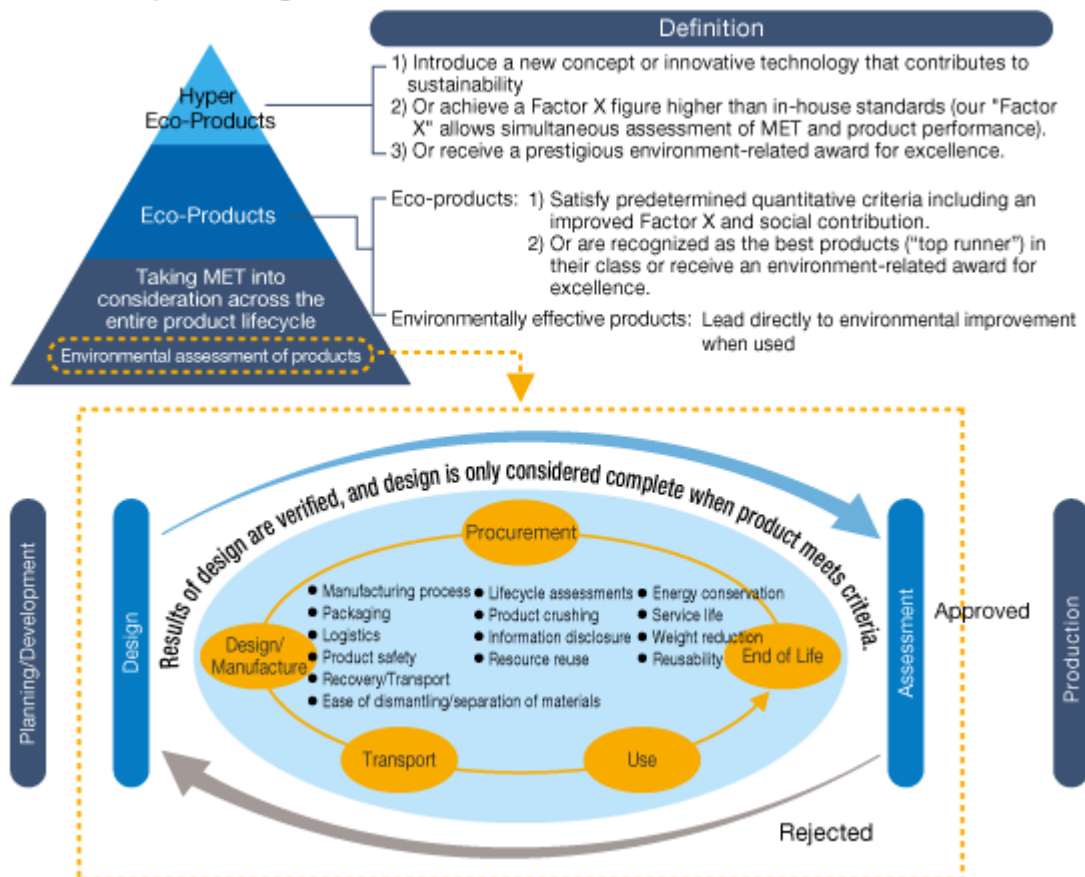
## Product Development Considering Overall Lifecycle

### Reducing CO2 Emissions During Product Use and Improving Resource Efficiency in Line with Environmental Vision 2021

As the concept of Lifecycle Thinking grows increasingly more important globally, the Mitsubishi Electric Group aspires to reduce environmental load by closely overseeing the entire product lifecycle, from collecting resources to design, manufacture, and disposal after use. Since fiscal 2004, product assessments for all newly developed products were implemented from the perspective of MET.\*1 Beginning in fiscal 2016, however, we operate based on Design for the Environment rules that conform to international standards focusing on Lifecycle Thinking. Furthermore, regarding the use of the product environmental efficiency improvement index (i.e., Factor X), products whose factor has improved compared to the base fiscal year are designated as "eco-products." Those products whose factor has improved based on in-house standard values 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).

### The Concept of Design for the Environment



# Environment – Factor X

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

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

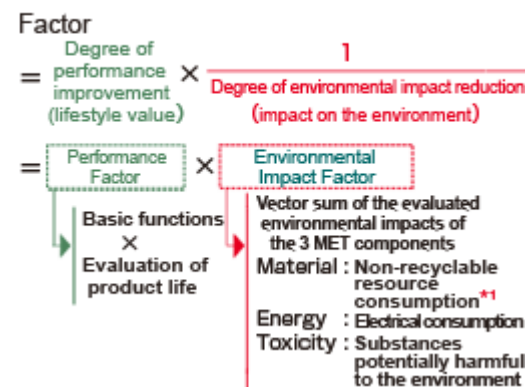
Factor X is an index that quantifies the idea of maximizing product value while minimizing impact on the environment. "X" is a value that compares a new product to a baseline product. The larger the X value, the greater the improvement in product performance and the lower the environmental impact. For 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 assessment index is evaluated as follows: [Basic functions (product functions, performance, quality, etc.) X product life]. For environmental impact, MET is based on three indices [(1) volume of non-recycled resources used,\*1(2) energy consumed, and (3) substances with potential environmental risk] from which the index of one baseline product being evaluated is calculated to obtain environmental impact by combining the vector length.

### ● Factor Calculation



However, regarding our policy for calculating Factor X, the formula is currently under review in terms of needing to reflect a revision of the base year to 2000 and the introduction of Lifecycle Thinking. We plan to begin operations based on a new rule in fiscal 2017.

\*1 Index for volume of non-recycled resources used = virgin resource consumption + non-recyclable volume (i.e., volume disposed of without being recycled) = [weight of product - volume of recycled materials and parts] + [weight of product - recyclable volume]

# Environment – Environmental Considerations for Procurement

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## Green Accreditation System Introduced That Takes Biodiversity and Environmental Risk into Consideration

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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 by 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. When it comes to the status of chemical substance management, all evaluations are conducted taking into consideration aspects such as changes to regulations.

In fiscal 2011, Mitsubishi Electric added consideration for preserving biodiversity as an assessment criterion of the Green Accreditation System. We have also implemented a means of confirming whether or not our business partners have introduced initiatives to preserve biodiversity as well.

Regarding Japanese and overseas suppliers of manufacturing materials essential to Mitsubishi Electric's manufacturing activities, we have continued to achieve a Green Accreditation rate of 100% and will aim to keep the rate at 100% in the coming years.



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

[▶ Environment: Group Biodiversity Action Guidelines](#)

[▶ Procurement Activities: Green Procurement](#)

# Environment – Creating a Society in Tune with Nature

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## ▶ Group Biodiversity Action Guidelines

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

## ▶ Mitsubishi Electric Outdoor Classroom

Introduction to the Mitsubishi Electric Outdoor Classroom, an opportunity for employees, their families, and the community to come together, get close to nature, and develop environmental awareness.

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## ▶ "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

## ▶ Preserving biodiversity at business sites

We are reevaluating the green space around our business sites as habitats for organisms. Here, we introduce organism research underway in cooperation with specialists, and dialogues between local governments and key individuals.

\* [Please refer to the Japanese page for more information.](#)

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Chinese language version of two of the above pages:

▶ 工厂保护生物多样性的活动

# Environment – Group Biodiversity Action Guidelines

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## Considering Biodiversity in All of Our Business Activities


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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 Release

May 18, 2010

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

## Mitsubishi Electric Group Biodiversity Action Guidelines

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### 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 Release

May 18, 2010

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

## Incorporating the Opinions of Experts in Our Action Guidelines

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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

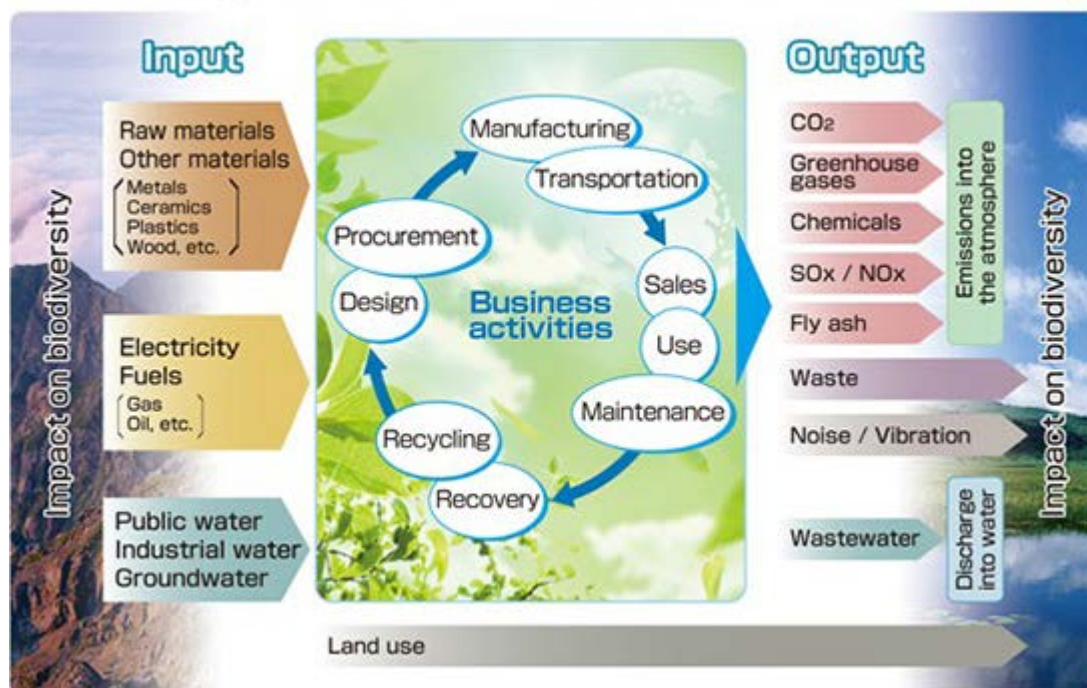




## Visualizing the Relationship between Business Activities and Biodiversity while Promoting Wide-Ranging Initiatives

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.
Preserving biodiversity at business sites	Activities centered around co-existence with nature carried out at business sites	Confirmation and appropriate management of rare species, endemic species, and non-native species; promotion of co-existence with nature; and gaining an understanding of our involvement with the surrounding natural environment.
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.



# Environment – Mitsubishi Electric Outdoor Classroom

## Mitsubishi Electric Outdoor Classroom

Mitsubishi Electric Outdoor Classroom is one of the directives of “fostering environmental awareness” aimed at the realization of a society in harmony with nature. These classrooms utilize nearby natural habitats and provide an opportunity for participants and classroom leaders alike to experience nature.

### Contemplating the Necessity of Preserving Nature and Taking Action

The Mitsubishi Electric Group is developing personnel who contemplate what is necessary to preserve nature and then take action themselves; in other words, people who are environmentally aware. We want participants to get in touch with nature so that they can realize the impact humans have on nature, increase their awareness of the importance of preserving nature, and take action to reduce environmental load as much as possible (bottom figure). Biodiversity is essential to the continuation of our business activities. On the other hand, our activities—such as consuming various resources, discharging chemical substances, and producing waste—place a burden on ecological systems on a daily basis. We must be aware of this and contribute to reducing the negative impact on water, air, and soil, in addition to reducing environmental load and helping to improve the environment through our products.

The foundation of environmental awareness is nurtured deeply and strongly through “experiencing nature that fully utilizes the five senses.” The Outdoor Classroom is our initiative to discover ecology (relationships among living creatures) through experiencing nature together with employees, their families, and local communities. Preserving nature cannot be achieved by the Mitsubishi Electric Group alone. Therefore, it is vital that environmental awareness is shared by various groups of people. Since the program began in October 2006, the Outdoor Classroom has been playing a role as an opportunity for contributing to society and the environment, and increasing local communication.

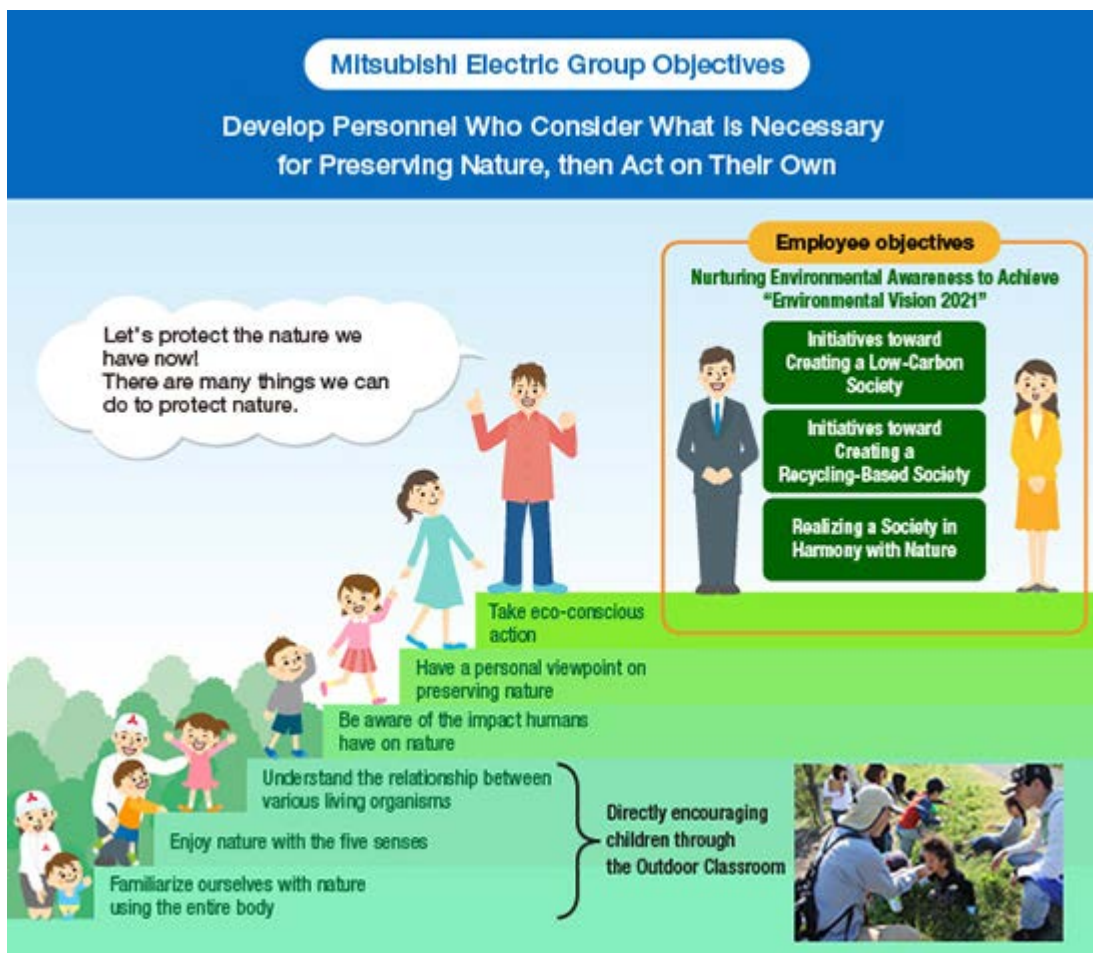
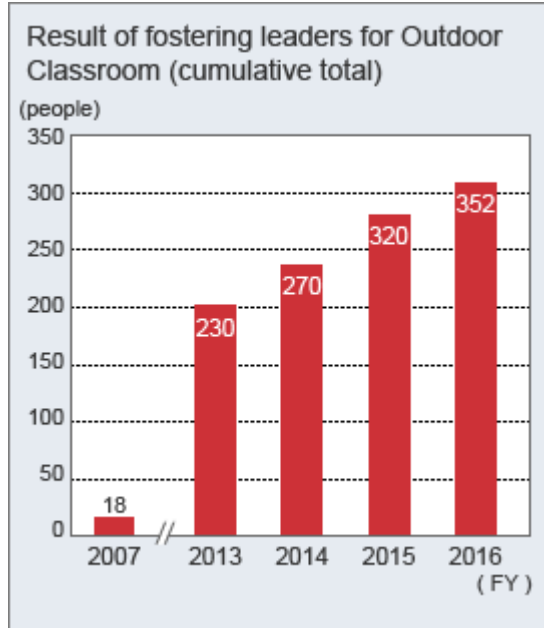


Illustration prepared while referring to a pamphlet introducing the Japan Association for the Promotion of Outdoor Life

## Features of the Mitsubishi Electric Outdoor Classroom

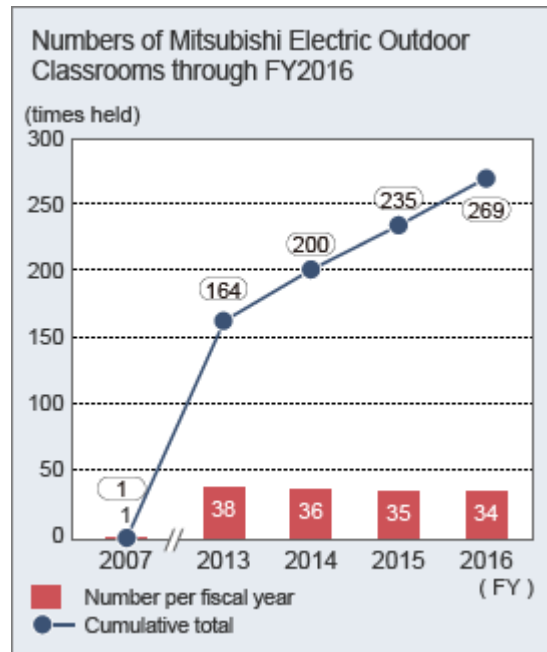
### Employees Responsible for Planning and Managing Programs

In the running of Mitsubishi Electric Outdoor Classrooms, much emphasis is placed on "doing it ourselves" by employees. Group employees who have completed an Outdoor Classroom Leader Development Course plan the program and serve as "Outdoor Classroom leaders." The choice of fields, the ways in which nature is experienced, and the timing (season) of the classrooms are all at the discretion of these leaders. The leaders utilize the emotional experiences and discoveries gained through their development course and compile a program of their choice utilizing their own creativity. Mitsubishi Electric also involves the cooperation of local key persons, NPOs, and so on to ensure that our outdoor classrooms leave an even deeper impression on participants. There are many variations of the Outdoor Classroom as there are leaders.



### Turning Fields Near Business Sites into "Classrooms"

Outdoor classrooms are held in various locations including mountains, forests, parks, seashores, rivers, rice fields, and farms. The outdoor classroom leaders throughout Japan make the neighboring natural habitat their classroom. Occasionally, they may also use the grounds of the business site itself as a classroom. Each location has its own unique fauna, flora, sounds, and smells. Mitsubishi Electric Outdoor Classrooms provide an opportunity for children and adults alike to maximize their five senses to sense the workings of nature and make various discoveries.

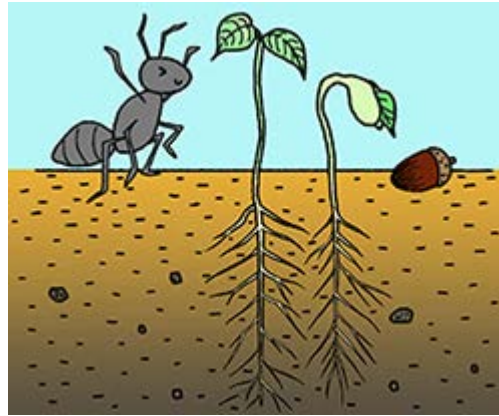


## Features of the Mitsubishi Electric Outdoor Classroom

### Learn how the cycle occurs in nature



Even after trees have withered, the "cycle of life" continues. Fallen leaves and deadwood provide habitats and food for insects, while being steadily decomposed by fungus. Sustaining a large amount of "life" in this way, trees eventually return to the earth over a long period.



Seeds fall into fertile soil and sprout, leading to the start of new "life."



Grown trees bear seeds and nuts, providing food for other living organisms, and eventually die and decompose.



Trees thrive in abundant sunshine, developing into a forest, where many animals gather.

## Experiencing nature with full use of the five senses



### Tohoku Branch

An Outdoor Classroom was held in Nanatsumori (Yamato-cho, Kurokawa-gun, Miyagi Prefecture), a forest where a wide variety of trees grow. We confirmed that the forest provides habitats for various living organisms other than insects and plants. We found a bear's claw marks, listened to birds singing, and observed mushrooms growing on branches and rotting twigs. The children enjoyed the hands-on experience learning the cycle of nature.



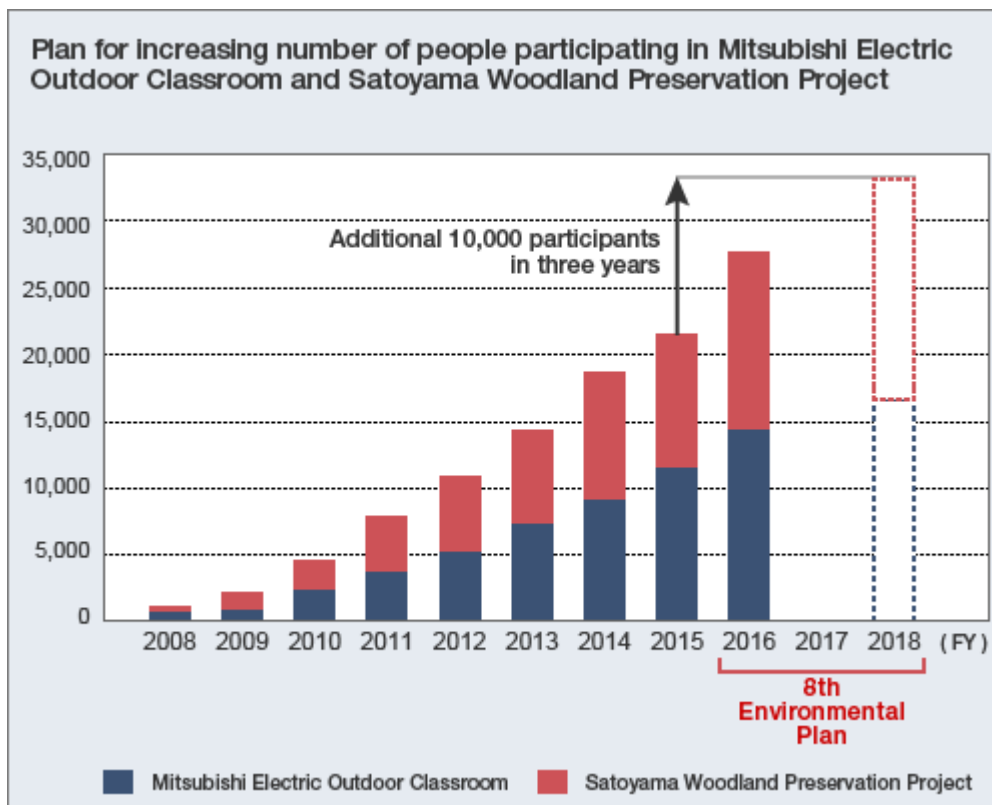
### Nagasaki Works

Rare animals and plants inhabit Kanzaki Garden (a park near the Works in Tokitsu-cho, Nishika-gun, Nagasaki Prefecture) together with other living organisms. We held an Outdoor Classroom here for children to learn about the biodiversity of small animals and plants while touching them. Children were thrilled by grasshoppers, woodlice, and earthworms while comparing the sizes of acorns they collected there.



## Objectives of the 8th Environmental Plan (Fiscal 2016-18) and Progress Made in Fiscal 2016

In the 8th Environmental Plan, we are aiming to continue the "Mitsubishi Electric Outdoor Classrooms" and "Satoyama Conservation Project," while surpassing the 30,000 mark in total number of participants following the success of 10,000 participants over the past three years. In fiscal 2016, with 4,700 people taking part, we are on course to achieve the target.



➤ Basic Policy and Approach to Environmental Management  
Training of Environmental Personnel

➤ Basic Policy and Approach to Environmental Management  
Group Biodiversity Action Guidelines

## Environment – Preserving biodiversity at business sites

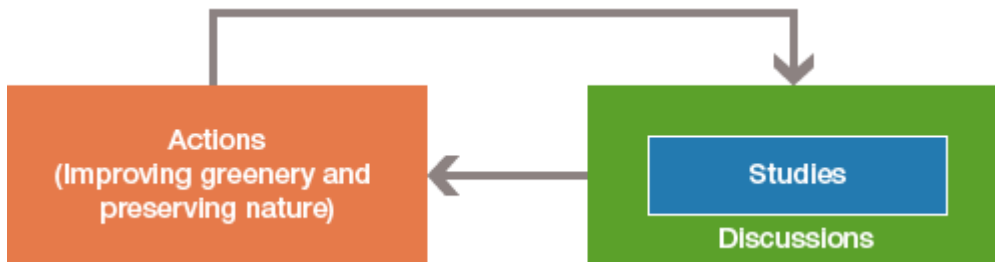
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### Aiming to Improve Greenery and Preserve Nature at the Business Sites

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Our day-to-day lives are supported by "ecosystem services" built upon biodiversity that supply food and water and contribute to climate stability. In order to maintain this lifestyle, the Mitsubishi Electric Group established the Biodiversity Action Guidelines in May 2010. As part of our response to these guidelines, since fiscal 2016 in Japan and fiscal 2017 overseas, we have been working to increase greenery and the preservation of nature in and around our business sites with activities that focus on maintaining and improving greenery and preserving nature surrounding each site.

One of the features of these activities is planning initiatives that take local vegetation and animal species into consideration based on studies to understand the habitats of creatures living in the region and on the premises of our business sites. In conjunction with this research, we also proactively communicate with external stakeholders in order to work together to solve neighboring issues.



## Action Strategies (for Improving Greenery and Preserving Nature) at Business Sites

We have set three strategies for the "initiatives (to improve greenery and preserve nature)" planned and implemented at all business sites based on our studies and discussions. These are shown in the table below. The actions taken by each business site differ based on the conditions for the respective sites. Those actions take into consideration the state of the surrounding natural environment, the nature and scale of business operations, and the relationship the site has built with its stakeholders. With our goal set as "resolving environmental issues experienced by the country and region where a business site is located," we are establishing connections between the ecosystems, our business sites, and surrounding areas, through which we will endeavor to maintain and improve biodiversity.

Trends in actions	Examples	
Reducing negative impact on living creatures	1. Control development pressure*1 and alien species pressure*2	(1) Environmental assessment (2) Alien species control
	2. Call attention to and preserve rare species and endemic species	(1) Disclosure of list of living creatures on premises (2) Preservation of rare species and endemic species (3) Cooperation in regards to conservation issues for surrounding areas
	3. Manage pesticides	(1) Control the killing/harming of living creatures
Aiming for more fruitful symbiosis with other living creatures	4. Set up functional greenery (1) Contribute to ecosystem of surrounding areas (2) Enhance quality of urban ecosystem	(1) Land used by flying organisms (2) Priority land for greenery and living creatures (3) Provision of continuity with areas surrounding premises (4) Cooperation in regards to issues for surrounding ecosystems
	5. Break away from agricultural orientations such as simplifying/specifying greenery	(1) Diversification/multi-stratification of vegetation (2) Management of greenery appropriate for plants
Restoring the relationship between employees and nature in the working environment	6. Proactively utilize ecosystem services in the workplace (break rooms, individual floors)	(1) Provision and utilization of opportunities for cultural services (2) Provision and utilization of opportunities for supply services
	7. Change situation from everyone being disinterested and unrelated to everyone being involved	(1) Education for understanding and promoting action (2) Creation of relationships through the workplace or work duties

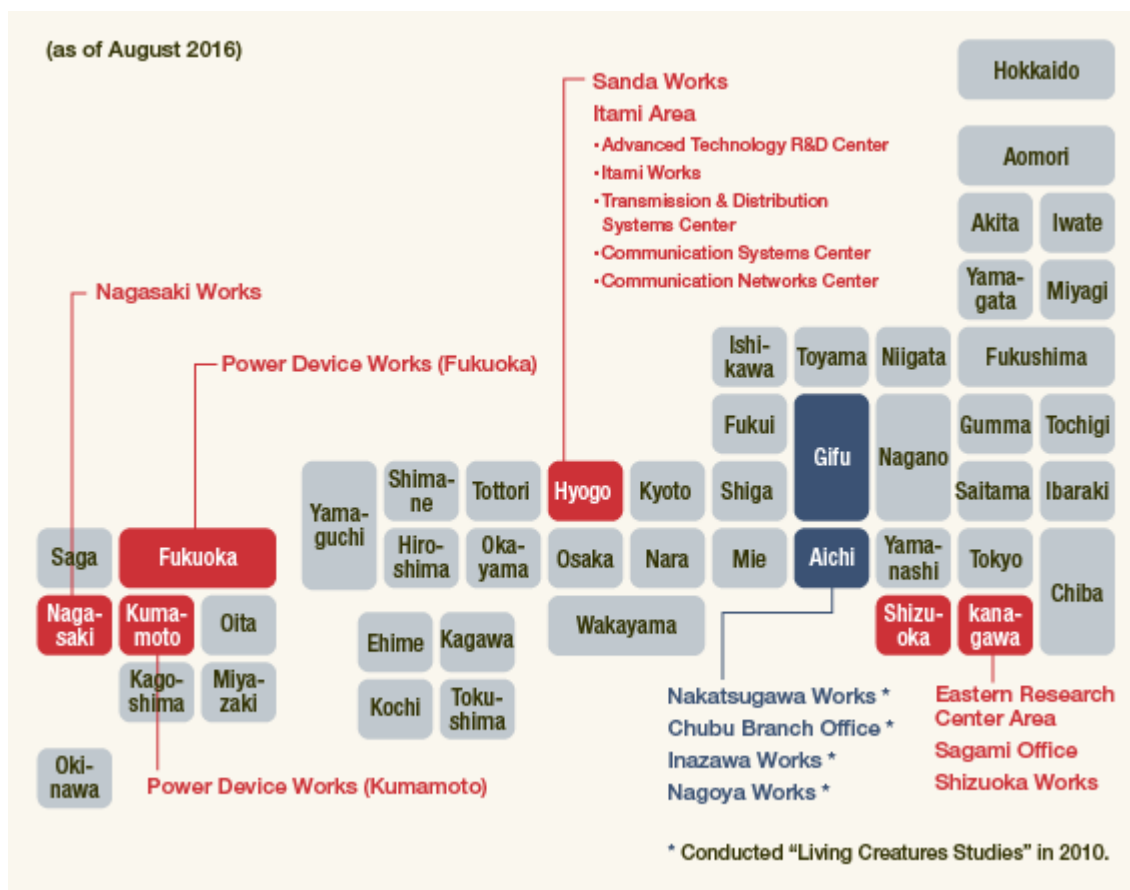
\*1 Development pressure: An action resulting in the destruction of habitats. The construction of a new business site and development (including that in the supply chain) intended to extract natural resources are deemed as such behaviors. One such example is when the use of water by operations affects the surrounding area, the source of water, and subsequently the habitats of living creatures.

\*2 Alien species pressure: When ditches, greenery at the side of buildings, and hedges are created, non-native species of insects, vegetation, etc. may be introduced. The unintentional transfer of living creatures could pose a threat to the habitats of indigenous species or trigger genetic pollution.



## Expansion of Activities in Japan

In Japan, we initiated the Living Creatures Studies program in 2014. The aim of this program is to understand the conditions surrounding the habitats of living creatures at our business sites, doing so with the cooperation of specialists. Based on the findings, we discuss issues with outside experts and personnel from local governments. Living Creatures Studies have been carried out at seven bases/areas as of the end of August 2016. Based on what we have found out about the surrounding natural environments at each site, we are proceeding with the initiative to transform the greenery and nature areas on the premises into environments that are easier to live in and use by the various living organisms found there.



## Case examples

- **Eastern Research Center Area**

In the area around Mitsubishi Electric's eastern research center in Kanagawa Prefecture, Living Creatures Studies have been conducted every season since June 2014, where the creatures and vegetation that live on and near the premises of the research center are researched. We have been looking for answers as to what actions should be taken, holding a series of discussions with representatives from regional governments and experts based on our findings. We also continue to hold sessions of Living Creature Studies aiming to share the importance of biodiversity with the local community and working to preserve nature in the region together.



- **Nagasaki Works**

At Nagasaki Works, the first study was carried out in the spring of 2015, based on the idea that it is an important first step to know what living creatures inhabit the area. Through the research program, nearly 250 species of living creatures have been confirmed, with the discovery of some rare species of shellfish and amphibians. We are planning to continue with this project in order to get the "whole picture" of the living creatures on and near the site, and eventually transform it into activities that will preserve and maintain the entire local ecosystem in abundance.



- **Power Device Works (Fukuoka)**

At Fukuoka Power Device Works, we have been utilizing a stream that already existed as a water channel for rainwater drainage, etc. since opening the works in 1944. Owing partly to the fact that little revetment work has been done, the same environment is still preserved. A three-year-plan was introduced to conduct Living Creatures Studies from 2015 to 2017. The first investigation in 2015 revealed that the rich ecosystem remains intact, centering around the water channel.



- **Sanda Works**

At Sanda Works, employees of the Environment and Facilities Management Section have been conducting Living Creatures Studies since the spring of 2014. They record the animal and plant life they find while walking around the premises, and check the species and other biological conditions. The results are compiled in the Living Creatures Field Guide and published as environmental news for an internal audience and regional networking events. Furthermore, we held discussions with researchers at local museums in 2015 in an attempt to take our activities to the next level.



### The Themes of Expert Discussions Conducted So Far

Theme	Date	Organizer	Expert
What the Information Technology Center will be able to do in cooperation with Kamakura City	February 2015	Eastern Research Center Area	Greenery Section, Urban Landscape Design Division, Kamakura City
What approach the Information Technology Center should take, based on the findings of the Living Creatures Studies	February 2015	Eastern Research Center Area	Curator, Kanagawa Prefectural Museum of Natural History
	February 2015	Eastern Research Center Area	Professor, Tokai University
Kamakura City's Environmental Conservation Activities	September 2014	Eastern Research Center Area	Greenery Section, Urban Landscape Planning Division Kamakura City
"Nature in Sanda City" and "Future Activities at Sanda Works"	December 2015	Sanda Works	Museum of Nature and Human Activities, Hyogo
What we hope corporations will do, based on the current state of biodiversity preservation in and outside Japan	June 2015 January 2016	Head Office	Dr. Harunori Karube, Chief Curator, Kanagawa Prefectural Museum of Natural History
Arrangement and symbiosis/co-existence for richer biodiversity	September/October 2015, April/May 2016	Head Office	Dr. Tetsuya Iwasaki, Associate Professor, University of Hyogo, Graduate School of Landscape Design and Management
Utilizing horticultural therapy – Potential of using greenery at business sites	September/October 2015, March/June/August 2016	Head Office	Dr. Masahiro Toyoda, Associate Professor, University of Hyogo, Graduate School of Landscape Design and Management

## The Significance and Purpose of Our Initiatives

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**Ensuring that the impact on living creatures can be recognized on a day-to-day basis is a responsibility of Mitsubishi Electric as a "global leading green company."**

The Mitsubishi Electric Group has manufacturing and sales bases around the world, and produces a variety of products. What we are aiming to achieve through this initiative is for all employees to act individually, thinking instinctively whether or not their actions are causing a negative impact on the preservation of ecosystems and biodiversity. We think that such a habit underlies a fundamental disposition for preventing environmental problems that human activities cause inadvertently. We recognize that endeavoring to improve green spaces at business sites and creating day-to-day interfaces between working people and their surrounding ecosystems can establish a foundation for nurturing such habits and personal character. We believe that it is desirable for an enterprise aiming to become a "global leading green company" to have the ability to conduct business activities while maintaining harmony with nature.

**Motohiro Tanaka**  
Senior Biotope Planner  
Planning Team  
Corporate Environmental Sustainability Group

## CSR – Guideline Comparison Tables

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▣ ISO26000

▣ G4 GRI Guidelines Comparison Table

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▣ Japan MOE Guideline Comparison Table

## ISO26000 Comparison Table

Core subjects	Issues	Contents
Organizational governance	1. Organizational governance	<a href="#"><u>President's Message</u></a>
		<a href="#"><u>CSR Management</u></a>
		<a href="#"><u>Corporate Governance</u></a>
		<a href="#"><u>Risk Management</u></a>
		<a href="#"><u>Responsibility to Shareholders &amp; Investors</u></a>
Human rights	1. Due diligence	<a href="#"><u>Corporate Social Responsibility through the Supply Chain</u></a>
	2. Human rights risk situations	<a href="#"><u>Respecting Human Rights</u></a>
	3. Avoidance of complicity	
	4. Resolving grievances	
	5. Discrimination and vulnerable groups	
	6. Civil and political rights	
	7. Economic, social and cultural rights	
	8. Fundamental principles and rights at work	
Labour practices	1. Employment and employment relationships	<a href="#"><u>Basic Policy on Human Resources</u></a>
		<a href="#"><u>Basic Personnel Data</u></a>
		<a href="#"><u>Workforce Diversity</u></a>
	2. Conditions of work and social protection	<a href="#"><u>Creating a Fulfilling Workplace</u></a>
		<a href="#"><u>Maintaining a Favorable Working Environment</u></a>
	3. Social dialogue	<a href="#"><u>Creating a Fulfilling Workplace</u></a>
		<a href="#"><u>Ensuring Occupational Safety &amp; Health</u></a>
	4. Health and safety at work	<a href="#"><u>Ensuring Occupational Safety &amp; Health</u></a>
	5. Human development and training in the workplace	<a href="#"><u>Supporting Career Development</u></a>

Core subjects	Issues	Contents
The environment	1. Prevention of pollution	<a href="#"><u>Long-term Perspective and Management Approach towards Solutions for Environmental Issues</u></a>
		<a href="#"><u>The Environment and Business</u></a>
		<a href="#"><u>Environmental Risk Management</u></a>
		<a href="#"><u>Managing Chemical Substances</u></a>
		<a href="#"><u>Environmental Considerations for Procurement</u></a>
	2. Sustainable resource use	<a href="#"><u>Long-term Perspective and Management Approach towards Solutions for Environmental Issues</u></a>
		<a href="#"><u>Examples of Environmental Activities by the Mitsubishi Electric Group Pertaining to SDGs</u></a>
		<a href="#"><u>The Environment and Business</u></a>
		<a href="#"><u>Reducing Resource Inputs</u></a>
		<a href="#"><u>Recycling End-of-Life Products</u></a>
		<a href="#"><u>Effective Utilization of Resources</u></a>
		<a href="#"><u>Strengthening Collaboration for Resource Recycling Business</u></a>
		<a href="#"><u>Reducing the Use of Disposable Packaging Materials</u></a>
		<a href="#"><u>Using Water Effectively</u></a>
		<a href="#"><u>A New Dimension in Water Recycling</u></a>
		<a href="#"><u>Plastic Recycling Comes of Age</u></a>
	<a href="#"><u>Tapping into Hidden Deposits of Rare Earth Elements Found in Cities</u></a>	
	3. Climate change mitigation and adaptation	<a href="#"><u>Long-term Perspective and Management Approach towards Solutions for Environmental Issues</u></a>
		<a href="#"><u>Examples of Environmental Activities by the Mitsubishi Electric Group Pertaining to SDGs (Securing Sustainable Energy and Expanding Its Use)</u></a>
		<a href="#"><u>Examples of Environmental Activities by the Mitsubishi Electric Group Pertaining to SDGs (Climate Change and Mitigating Its Effects)</u></a>
		<a href="#"><u>The Environment and Business</u></a>
<a href="#"><u>Realizing a Sustainable Society</u></a>		
<a href="#"><u>Reducing Greenhouse Gases Emitted in the Value Chain</u></a>		
<a href="#"><u>Contribution to Reducing CO<sub>2</sub> from Product Usage</u></a>		
<a href="#"><u>Reducing CO<sub>2</sub> from Production</u></a>		
<a href="#"><u>Reducing CO<sub>2</sub> from Logistics</u></a>		



	<p>4. Protection of the environment, biodiversity and restoration of natural habitats</p>	<p><u>Long-term Perspective and Management Approach towards Solutions for Environmental Issues</u></p> <p><u>Examples of Environmental Activities by the Mitsubishi Electric Group Pertaining to SDGs (Protecting and Restoring Ecosystems, and Preventing the Loss of Biodiversity)</u></p> <p><u>The Environment and Business</u></p> <p><u>Group Biodiversity Action Guidelines</u></p> <p><u>Mitsubishi Electric Outdoor Classroom</u></p> <p><u>"Satoyama" Woodland Preservation Activities</u></p> <p><u>Environmental Considerations for Procurement</u></p> <p><u>Preserving biodiversity at business sites</u></p>
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Core subjects	Issues	Contents
Fair operating practices	1. Anti-corruption	<u>Compliance</u>
	2. Responsible political involvement	
	3. Fair competition	
	4. Promoting social responsibility in the value chain	<u>Compliance</u> <u>Corporate Social Responsibility through the Supply Chain</u>
	5. Respect for property rights	<u>Protection of Intellectual Property Rights</u>
Consumer issues	1. Fair marketing, factual and unbiased information and fair contractual practices	<u>Compliance</u>
	2. Protecting consumers' health and safety	<u>Product Safety-Related Principles</u>
	3. Sustainable consumption	<u>Product Development</u>
		<u>Contribution to Reducing CO<sub>2</sub> from Product Usage</u>
	4. Consumer service, support, and complaint and dispute resolution	<u>Providing Easy-to-Use Products</u>
		<u>Increasing Customer Satisfaction</u>
		<u>Responding to Product-Related Issues</u>
5. Consumer data protection and privacy	<u>Activities for personal information protection</u>	
6. Access to essential services	<u>Increasing Customer Satisfaction</u>	
7. Education and awareness	–	
Community involvement and development	1. Community involvement	<u>Philanthropic Activities</u>
	2. Education and culture	
	3. Employment creation and skills development	
	4. Technology development and access	
	5. Wealth and income creation	
	6. Health	
	7. Social investment	

# CSR – G4 GRI Guidelines Comparison Table

## G4 GRI Guidelines Comparison Table

### General Standard Disclosures (In Accordance with Core Option)



Section	Indicator	Contents
Strategy and Analysis		
G4-1	a. Provide a statement from the most senior decision-maker of the organization (such as CEO, chair, or equivalent senior position) about the relevance of sustainability to the organization and the organization's strategy for addressing sustainability.	<a href="#">President's Message (CSR)</a> <a href="#">From the President (Environment)</a>
Organizational Profile		
G4-3	a. Report the name of the organization.	<a href="#">At-a-Glance</a>
G4-4	a. Report the primary brands, products, and services	<a href="#">Products</a> <a href="#">Business Overview</a>
G4-5	a. Report the location of the organization's headquarters.	<a href="#">At-a-Glance</a>
G4-6	a. Report the number of countries where the organization operates, and names of countries where either the organization has significant operations or that are specifically relevant to the sustainability topics covered in the report.	<a href="#">Locations Worldwide</a> <a href="#">Corporate Strategy</a>
G4-7	a. Report the nature of ownership and legal form.	<a href="#">At-a-Glance</a>
G4-8	a. Report the markets served (including geographic breakdown, sectors served, and types of customers and beneficiaries).	<a href="#">Locations Worldwide</a> <a href="#">Corporate Strategy</a>
G4-9	a. Report the scale of the organization, including: <ul style="list-style-type: none"> <li>• Total number of employees</li> <li>• Total number of operations</li> <li>• Net sales (for private sector organizations) or net revenues (for public sector organizations)</li> <li>• Total capitalization broken down in terms of debt and equity (for private sector organizations)</li> <li>• Quantity of products or services provided</li> </ul>	<a href="#">At-a-Glance</a> <a href="#">Annual Report</a> <a href="#">Financial Highlights</a>
G4-10	a. Report the total number of employees by employment contract and gender. b. Report the total number of permanent employees by employment type and gender. c. Report the total workforce by employees and supervised workers and by gender. d. Report the total workforce by region and gender. e. Report whether a substantial portion of the organization's work is performed by workers who are legally recognized as self-employed, or by individuals other than employees or supervised workers, including employees and supervised employees of contractors. f. Report any significant variations in employment numbers (such as seasonal variations in employment in the tourism or agricultural industries).	<a href="#">Basic Policy on Human Resources (Active Employment on a Continuous Basis)</a> <a href="#">Basic Personnel Data</a> <a href="#">Workforce Diversity</a>
G4-11	a. Report the percentage of total employees covered by collective bargaining agreements.	<a href="#">Basic Personnel Data</a>

G4-12	a. Describe the organization's supply chain.	<a href="#">Corporate Social Responsibility through the Supply Chain</a>
G4-13	a. Report any significant changes during the reporting period regarding the organization's size, structure, ownership, or its supply chain, including: <ul style="list-style-type: none"> <li>• Changes in the location of, or changes in, operations, including facility openings, closings, and expansions</li> <li>• Changes in the share capital structure and other capital formation, maintenance, and alteration operations (for private sector organizations)</li> <li>• Changes in the location of suppliers, the structure of the supply chain, or in relationships with suppliers, including selection and termination</li> </ul>	<a href="#">News Releases in 2015</a>
		<a href="#">News Releases in 2016</a>

Section	Indicator	Contents
Commitments to External Initiatives		
G4-14	a. Report whether and how the precautionary approach or principle is addressed by the organization	<a href="#">Responding to Environmental Risk</a>
		<a href="#">Environmental Risk Management</a>
		<a href="#">Product Development</a>
		<a href="#">Corporate Social Responsibility through the Supply Chain</a>
G4-15	a. List externally developed economic, environmental and social charters, principles, or other initiatives to which the organization subscribes or which it endorses.	ISO 26000 GRI Guidelines Ministry of the Environment Environmental Reporting Guidelines Sustainable Development Goals
G4-16	a. List memberships of associations (such as industry associations) and national or international advocacy organizations in which the organization: <ul style="list-style-type: none"> <li>• Holds a position on the governance body</li> <li>• Participates in projects or committees</li> <li>• Provides substantive funding beyond routine membership dues</li> <li>• Views membership as strategic</li> </ul>	Japan Business Federation Japan Electronics and Information Technology Industries Association (JEITA)

Identified Material Aspects and Boundaries		
G4-17	<p>a. List all entities included in the organization's consolidated financial statements or equivalent documents.</p> <p>b. Report whether any entity included in the organization's consolidated financial statements or equivalent documents is not covered by the report.</p>	<u>Annual Report</u>
G4-18	<p>a. Explain the process for defining the report content and the Aspect Boundaries.</p> <p>b. Explain how the organization has implemented the Reporting Principles for Defining Report Content.</p>	<u>CSR Materialities and Initiatives</u>
		<u>Process of Identifying CSR Materialities</u>
G4-19	a. List all the material Aspects identified in the process for defining report content.	<u>CSR Materialities and Initiatives</u>
G4-20	<p>a. For each material Aspect, report the Aspect Boundary within the organization, as follows:</p> <ul style="list-style-type: none"> <li>• Report whether the Aspect is material within the organization</li> <li>• If the Aspect is not material for all entities within the organization (as described in G4-17), select one of the following two approaches and report either: <ul style="list-style-type: none"> <li>—The list of entities or groups of entities included in G4-17 for which the Aspect is not material or</li> <li>—The list of entities or groups of entities included in G4-17 for which the Aspects is material</li> </ul> </li> <li>• Report any specific limitation regarding the Aspect Boundary within the organization</li> </ul>	<u>CSR Materialities and Initiatives</u>
G4-21	<p>a. For each material Aspect, report the Aspect Boundary outside the organization, as follows:</p> <ul style="list-style-type: none"> <li>• Report whether the Aspect is material outside of the organization</li> <li>• If the Aspect is material outside of the organization, identify the entities, groups of entities or elements for which the Aspect is material. In addition, describe the geographical location where the Aspect is material for the entities identified</li> <li>• Report any specific limitation regarding the Aspect Boundary outside the organization</li> </ul>	—
G4-22	a. Report the effect of any restatements of information provided in previous reports, and the reasons for such restatements.	Not applicable
G4-23	a. Report significant changes from previous reporting periods in the Scope and Aspect Boundaries.	Not applicable

Section	Indicator	Contents
Stakeholder Engagement		
G4-24	a. Provide a list of stakeholder groups engaged by the organization.	<a href="#">Stakeholders of the Mitsubishi Electric Group</a>
G4-25	a. Report the basis for identification and selection of stakeholders with whom to engage.	—
G4-26	a. Report the organization's approach to stakeholder engagement, including frequency of engagement by type and by stakeholder group, and an indication of whether any of the engagement was undertaken specifically as part of the report preparation process.	<a href="#">Communication with Stakeholders</a>
G4-27	a. Report key topics and concerns that have been raised through stakeholder engagement, and how the organization has responded to those key topics and concerns, including through its reporting. Report the stakeholder groups that raised each of the key topics and concerns.	<a href="#">Communication with Stakeholders</a>
		<a href="#">Preserving biodiversity at business sites</a>
Report Profile		
G4-28	a. Reporting period (such as fiscal or calendar year) for information provided	Fiscal 2016 (April 1, 2015 - March 31, 2016)
G4-29	a. Date of most recent previous report (if any).	June 1, 2015
G4-30	a. Reporting cycle (such as annual, biennial).	Annual
G4-31	a. Provide the contact point for questions regarding the report or its contents.	<a href="#">About the Report</a>
		<a href="#">Period and Scope of the Report</a>
GRI Content Index		
G4-32	a. Report the 'in accordance' option the organization has chosen. b. Report the GRI Content Index for the chosen option (see tables below). c. Report the reference to the External Assurance Report, if the report has been externally assured. GRI recommends the use of external assurance but it is not a requirement to be 'in accordance' with the Guidelines.	<a href="#">GRI Guideline Comparison Table</a>

Assurance		
G4-33	a. Report the organization's policy and current practice with regard to seeking external assurance for the report. b. If not included in the assurance report accompanying the sustainability report, report the scope and basis of any external assurance provided. c. Report the relationship between the organization and the assurance providers. d. Report whether the highest governance body or senior executives are involved in seeking assurance for the organization's sustainability report.	<a href="#">Verification Statement</a> 
Governance		
G4-34	a. Report the governance structure of the organization, including committees of the highest governance body. Identify any committees responsible for decision-making on economic, environmental and social impacts.	<a href="#">Corporate Governance</a>
Ethics and Integrity		
G4-56	a. Describe the organization's values, principles, standards and norms of behavior such as codes of conduct and codes of ethics.	<a href="#">Corporate Mission</a>
		<a href="#">Mitsubishi Electric Group Conduct Guidelines</a> 
		<a href="#">Group Environmental Policy</a>
		<a href="#">Group Biodiversity Action Guidelines</a>
		<a href="#">Environmental Statement: Eco Changes</a>
		<a href="#">Environmental Vision 2021</a>

### Specific Standard Disclosures

Section	Indicator	Contents
Generic Disclosures On Management Approach		
G4-DMA	a. Report why the Aspect is material. Report the impacts that make this Aspect material. b. Report how the organization manages the material Aspect or its impacts. c. Report the evaluation of the management approach, including: <ul style="list-style-type: none"> <li>• The mechanisms for evaluating the effectiveness of the management approach</li> <li>• The results of the evaluation of the management approach</li> <li>• Any related adjustments to the management approach</li> </ul>	<a href="#">President's Message (CSR)</a>
		<a href="#">CSR Materialities and Initiatives</a>
		<a href="#">Process of Identifying CSR Materialities</a>
		<a href="#">Long-term Perspective and Management Approach towards Solutions for Environmental Issues</a>



ECONOMIC		
Economic Performance		
G4-EC1	Direct economic value generated and distributed	<a href="#">Annual Report</a>
G4-EC2	Financial implications and other risks and opportunities for the organization's activities due to climate change	<a href="#">Annual Report</a>
		<a href="#">Overview</a>
G4-EC3	Coverage of the organization's defined benefit plan obligations	<a href="#">Annual Report</a>
G4-EC4	Financial assistance received from government	None
Market Presence		
G4-EC5	Ratios of standard entry level wage by gender compared to local minimum wage at significant locations of operation	—
G4-EC6	Proportion of senior management hired from the local community at significant locations of operation	—
Indirect Economic Impacts		
G4-EC7	Development and impact of infrastructure investments and services supported	<a href="#">Philanthropic Activities</a>
G4-EC8	Significant indirect economic impacts, including the extent of impacts	—
Procurement Practices		
G4-EC9	Proportion of spending on local suppliers at significant locations of operation	—

Section	Indicator	Contents
ENVIRONMENTAL		
Materials		
G4-EN1	Materials used by weight or volume	<a href="#">Material Balance</a>
G4-EN2	Percentage of materials used that are recycled input materials	—
Energy		
G4-EN3	Energy consumption within the organization	<a href="#">Material Balance</a>
		<a href="#">Environmental Performance Data</a>
		<a href="#">Reducing CO<sub>2</sub> from Production</a>
G4-EN4	Energy consumption outside of the organization	<a href="#">Material Balance</a>
		<a href="#">Environmental Performance Data</a>
		<a href="#">Reducing CO<sub>2</sub> from Logistics</a>
G4-EN5	Energy intensity	<a href="#">Reducing CO<sub>2</sub> from Production</a>
		<a href="#">Environmental Performance Data</a>
G4-EN6	Reduction of energy consumption	—
G4-EN7	Reductions in energy requirements of products and services	<a href="#">Contribution to Reducing CO<sub>2</sub> from Product Usage</a>
		<a href="#">Environmental Performance Data</a>

Water		
G4-EN8	Total water withdrawal by source	<a href="#">Material Balance</a>
		<a href="#">Environmental Performance Data</a>
		<a href="#">Using Water Effectively</a>
G4-EN9	Water sources significantly affected by withdrawal of water	The Mitsubishi Electric Group was not able to confirm the possibility of using excessive water in each region in Japan and overseas.
G4-EN10	Percentage and total volume of water recycled and reused	<a href="#">Material Balance</a>
		<a href="#">Environmental Performance Data</a>
		<a href="#">Using Water Effectively</a>
Biodiversity		
G4-EN11	Operational sites owned, leased, managed in, or adjacent to, protected areas and areas of high biodiversity value outside protected areas	Not applicable
G4-EN12	Description of significant impacts of activities, products, and services on biodiversity in protected areas and areas of high biodiversity value outside protected areas	The Mitsubishi Electric Group conducts no mining, cultivation or manufacturing of raw materials, and does not destroy woodlands or ecosystems. There has been not large impact due to production bases identified neither in scale nor frequency.
G4-EN13	Habitats protected or restored	<a href="#">Preserving biodiversity at business sites</a>
G4-EN14	Total number of IUCN red list species and national conservation list species with habitats in areas affected by operations, by level of extinction risk	—

Section	Indicator	Contents
<b>Emissions</b>		
G4-EN15	Direct greenhouse gas (GHG) emissions (Scope 1)	<a href="#">Reducing Greenhouse Gases Emitted in the Value Chain</a>
		<a href="#">Environmental Performance Data</a>
		<a href="#">Reducing CO<sub>2</sub> from Production</a>
		<a href="#">Managing Chemical Substances</a>
G4-EN16	Energy indirect greenhouse gas (GHG) emissions (Scope 2)	<a href="#">Reducing Greenhouse Gases Emitted in the Value Chain</a>
		<a href="#">Environmental Performance Data</a>
		<a href="#">Reducing CO<sub>2</sub> from Production</a>
		<a href="#">Managing Chemical Substances</a>
G4-EN17	Other indirect greenhouse gas (GHG) emissions (Scope 3)	<a href="#">Reducing Greenhouse Gases Emitted in the Value Chain</a>
		<a href="#">Environmental Performance Data</a>
		<a href="#">Reducing CO<sub>2</sub> from Logistics</a>
G4-EN18	Greenhouse gas (GHG) emissions intensity	<a href="#">Reducing CO<sub>2</sub> from Production</a>
		<a href="#">Environmental Performance Data</a>
G4-EN19	Reduction of greenhouse gas (GHG) emissions	<a href="#">Reducing CO<sub>2</sub> from Production</a>
		<a href="#">Environmental Performance Data</a>
G4-EN20	Emissions of ozone-depleting substances (ODS)	<a href="#">Material Balance</a>
G4-EN21	NOx, SOx, and other significant air emissions	<a href="#">Material Balance</a>
<b>Effluents and Waste</b>		
G4-EN22	Total water discharge by quality and destination	<a href="#">Material Balance</a>
G4-EN23	Total weight of waste by type and disposal method	<a href="#">Material Balance</a>
		<a href="#">Environmental Performance Data</a>
		<a href="#">Effective Utilization of Resources</a>
G4-EN24	Total number and volume of significant spills	—
G4-EN25	Weight of transported, imported, exported, or treated waste deemed hazardous under the terms of the Basel Convention 2 Annex I, II, III, and VIII, and percentage of transported waste shipped internationally	—
G4-EN26	Identity, size, protected status, and biodiversity value of water bodies and related habitats significantly affected by the organization's discharges of water and runoff	—

Section	Indicator	Contents
Products and Services		
G4-EN27	Extent of impact mitigation of environmental impacts of products and services	<a href="#">Contribution to Reducing CO<sub>2</sub> from Product Usage</a>
		<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="#">Eco Changes</a>
		<a href="#">Plastic Recycling Comes of Age</a>
		<a href="#">Strengthening Collaboration for Resource Recycling Business</a>
		<a href="#">A New Dimension in Water Recycling</a>
		<a href="#">Plastic Recycling Comes of Age</a>
		<a href="#">Tapping into Hidden Deposits of Rare Earth Elements Found in Cities</a>
G4-EN28	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		
G4-EN29	Monetary value of significant fines and total number of non-monetary sanctions for non-compliance with environmental laws and regulations	—
Transport		
G4-EN30	Significant environmental impacts of transporting products and other goods and materials for the organization's operations, and transporting members of the workforce	<a href="#">Reducing Greenhouse Gases Emitted in the Value Chain</a>
		<a href="#">Environmental Performance Data</a>
		<a href="#">Reducing CO<sub>2</sub> from Logistics</a>

Overall		
G4-EN31	Total environmental protection expenditures and investments by type	<a href="#">Environmental Accounting</a>
Supplier Environmental Assessment		
G4-EN32	Percentage of new suppliers that were screened using environmental criteria	—
G4-EN33	Significant actual and potential negative environmental impacts in the supply chain and actions taken	<a href="#">Corporate Social Responsibility through the Supply Chain</a>
Environmental Grievance Mechanisms		
G4-EN34	Number of grievances about environmental impacts filed, addressed, and resolved through formal grievance mechanisms	—

Section	Indicator	Contents
SOCIAL		
LABOR PRACTICES AND DECENT WORK		
Employment		
G4-LA1	Total number and rates of new employee hires and employee turnover by age group, gender and region	<a href="#">Basic Policy on Human Resources (Active Employment on a Continuous Basis)</a>
G4-LA2	Benefits provided to full-time employees that are not provided to temporary or part-time employees, by significant locations of operation	—
G4-LA3	Return to work and retention rates after parental leave, by gender	<a href="#">Rate of utilization of each support program (by Mitsubishi Electric employees)</a>
Labor/Management Relations		
G4-LA4	Minimum notice periods regarding operational changes, including whether these are specified in collective agreements	<a href="#">Relationship with Labor Unions</a>
Occupational Health and Safety		
G4-LA5	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	<a href="#">Ensuring Occupational Safety &amp; Health</a>
G4-LA6	Type of injury and rates of injury, occupational diseases, lost days, and absenteeism, and total number of work-related fatalities, by region and by gender	<a href="#">Occupational Safety and Health Management System</a>
G4-LA7	Workers with high incidence or high risk of diseases related to their occupation	—
G4-LA8	Health and safety topics covered in formal agreements with trade unions	—

Training and Education		
G4-LA9	Average hours of training per year per employee by gender, and by employee category	—
G4-LA10	Programs for skills management and lifelong learning that support the continued employability of employees and assist them in managing career endings	<a href="#">Supporting Career Development</a>
		<a href="#">Providing Diverse Employment Formats for Older Employees</a>
G4-LA11	Percentage of employees receiving regular performance and career development reviews, by gender and by employee category	—
Diversity and Equal Opportunity		
G4-LA12	Composition of governance bodies and breakdown of employees per employee category according to gender, age group, minority group membership, and other indicators of diversity	—
Equal Remuneration for Women and Men		
G4-LA13	Ratio of basic salary and remuneration of women to men by employee category, by significant locations of operation	There is no difference between men and women.
Supplier Assessment for Labor Practices		
G4-LA14	Percentage of new suppliers that were screened using labor practices criteria	—
G4-LA15	Significant actual and potential negative impacts for labor practices in the supply chain and actions taken	<a href="#">Corporate Social Responsibility through the Supply Chain</a>
Labor Practices Grievance Mechanisms		
G4-LA16	Number of grievances about labor practices filed, addressed, and resolved through formal grievance mechanisms	—

Section	Indicator	Contents
HUMAN RIGHTS		
Investment		
G4-HR1	Total number and percentage of significant investment agreements and contracts that include human rights clauses or that underwent human rights screening	—
G4-HR2	Total hours of employee training on human rights policies or procedures concerning aspects of human rights that are relevant to operations, including the percentage of employees trained	—
Non-discrimination		
G4-HR3	Total number of incidents of discrimination and corrective actions taken	—
Freedom of Association and Collective Bargaining		
G4-HR4	Operations and suppliers identified in which the right to exercise freedom of association and collective bargaining may be violated or at significant risk, and measures taken to support these rights	—
Child Labor		
G4-HR5	Operations and suppliers identified as having significant risk for incidents of child labor, and measures taken to contribute to the effective abolition of child labor	—
Forced or Compulsory Labor		
G4-HR6	Operations and suppliers identified as having significant risk for incidents of forced or compulsory labor, and measures to contribute to the elimination of all forms of forced or compulsory labor	—
Security Practices		
G4-HR7	Percentage of security personnel trained in the organization's human rights policies or procedures that are relevant to operations	—
Indigenous Rights		
G4-HR8	Total number of incidents of violations involving rights of indigenous peoples and actions taken	—
Assessment		
G4-HR9	Total number and percentage of operations that have been subject to human rights reviews or impact assessments	—
Supplier Human Rights Assessment		
G4-HR10	Percentage of new suppliers that were screened using human rights criteria	—
G4-HR11	Significant actual and potential negative human rights impacts in the supply chain and actions taken	<a href="#"><u>Corporate Social Responsibility through the Supply Chain</u></a>
Human Rights Grievance Mechanisms		
G4-HR12	Number of grievances about human rights impacts filed, addressed, and resolved through formal grievance mechanisms	—



Section	Indicator	Contents
SOCIETY		
Local Communities		
G4-SO1	Percentage of operations with implemented local community engagement, impact assessments, and development programs	—
G4-SO2	Operations with significant actual and potential negative impacts on local communities	—
Anti-corruption		
G4-SO3	Total number and percentage of operations assessed for risks related to corruption and the significant risks identified	—
G4-SO4	Communication and training on anti-corruption policies and procedures	<u>Compliance</u>
G4-SO5	Confirmed incidents of corruption and actions taken	—
Public Policy		
G4-SO6	Total value of political contributions by country and recipient/beneficiary	—
Anti-competitive Behavior		
G4-SO7	Total number of legal actions for anti-competitive behavior, anti-trust, and monopoly practices and their outcomes	—
Compliance		
G4-SO8	Monetary value of significant fines and total number of non-monetary sanctions for non-compliance with laws and regulations	—
Supplier Assessment for Impacts on Society		
G4-SO9	Percentage of new suppliers that were screened using criteria for impacts on society	—
G4-SO10	Significant actual and potential negative impacts on society in the supply chain and actions taken	<u>Corporate Social Responsibility through the Supply Chain</u>
Grievance Mechanisms for Impacts on Society		
G4-SO11	Number of grievances about impacts on society filed, addressed, and resolved through formal grievance mechanisms	—

Section	Indicator	Contents
<b>PRODUCT RESPONSIBILITY</b>		
<b>Customer Health and Safety</b>		
G4-PR1	Percentage of significant product and service categories for which health and safety impacts are assessed for improvement	<a href="#">Product Safety-Related Principles</a>
G4-PR2	Total number of incidents of non-compliance with regulations and voluntary codes concerning the health and safety impacts of products and services during their life cycle, by type of outcomes	—
<b>Product and Service Labeling</b>		
G4-PR3	Type of product and service information required by the organization's procedures for product and service information and labeling, and percentage of significant product and service categories subject to such information requirements	—
G4-PR4	Total number of incidents of non-compliance with regulations and voluntary codes concerning product and service information and labeling, by type of outcomes	—
G4-PR5	Results of surveys measuring customer satisfaction	<a href="#">Increasing Customer Satisfaction</a>
<b>Marketing Communications</b>		
G4-PR6	Sale of banned or disputed products	—
G4-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	—
<b>Customer Privacy</b>		
G4-PR8	Total number of substantiated complaints regarding breaches of customer privacy and losses of customer data	—
<b>Compliance</b>		
G4-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

## Japan MOE Guideline Comparison Table [Fiscal Year 2012 Version]

### 1. Report Parameters and Summary

Item	Contents
1. Report Profile	
(1) Report boundary and reporting period	<a href="#">About the Report</a>
	<a href="#">Period and Scope of the Report</a>
(2) Organizations coverage ratio and reporting period difference	<a href="#">About the Report</a>
	<a href="#">Period and Scope of the Report</a>
(3) Reporting policies	<a href="#">About the Report</a>
(4) Policies for choosing the type of report	<a href="#">About the Report</a>
	<a href="#">Reports</a>
	<a href="#">Environmental Sustainability Report</a>
2. Chairman's statement / CEO's statement	
	<a href="#">President's Message (CSR)</a>
	<a href="#">From the President (Environment)</a>
3. Summary	
(1) Overview of environmentally focused management	<a href="#">Aiming to Become a Global Leading Green Company</a>
(2) Overview of KPI trends	<a href="#">Environmental Performance Data</a>
(3) Summary of activities to address an individual environmental issue	<a href="#">Targets and Achievements of the 8th Environmental Plan (Fiscal 2016–2018)</a>
4. Material balance	
	<a href="#">Material Balance</a>

## 2. Data on Status of Environment-focused Management

### Information and Indicators on How Environmentally Focused Management (Including Environmental Management) Is Working

Item	Contents
1. Environmental policies, visions and business strategies	
(1) Environmental policies	<a href="#">Group Environmental Policy</a>
	<a href="#">Group Biodiversity Action Guidelines</a>
	<a href="#">Environmental Statement: Eco Changes</a>
(2) Material issues, visions, and business strategies	<a href="#">Environmental Vision 2021</a>
	<a href="#">Aiming to Become a Global Leading Green Company</a>
	<a href="#">8th Environmental Plan (Fiscal 2016–2018)</a>
	<a href="#">Long-term Perspective and Management Approach towards Solutions for Environmental Issues</a>
	<a href="#">Realizing a Sustainable Society</a>
	<a href="#">Examples of Environmental Activities by the Mitsubishi Electric Group Pertaining to SDGs</a>
2. Organizational systems and governance	
(1) Organizational systems for environmentally focused management	<a href="#">Environmental Management Structure</a>
(2) Environmental risk management system	<a href="#">Environmental Risk Management</a>
(3) Compliance with environmental regulations	<a href="#">Environmental Risk Management</a>
3. Responsiveness of stakeholder issues	
(1) Responsiveness to stakeholder issues	<a href="#">Responsibility to Customers</a>
	<a href="#">Corporate Social Responsibility through the Supply Chain</a>
	<a href="#">Responsibility to Shareholders &amp; Investors</a>
	<a href="#">Labor Practices</a>
	<a href="#">Philanthropic Activities</a>
	<a href="#">Communication with Stakeholders</a>
	<a href="#">Preserving biodiversity at business sites</a>
	<a href="#">Environmental Communication</a>
(2) Philanthropy related to the environment	<a href="#">"Satoyama" Woodland Preservation activities</a>
4. Environmental initiatives in the value chain	
(1) Strategies and environmental policies for the value chain	<a href="#">Environmental Considerations for Value Chain Management</a>
(2) Green purchasing and procurement	<a href="#">Environmental Considerations for Procurement</a>
	<a href="#">Green Procurement</a>
(3) Products and services designed for mitigating environmental impacts	<a href="#">Environmental Considerations for Products</a>
	<a href="#">The Environment and Business</a>
	<a href="#">Realizing a Sustainable Society</a>
	<a href="#">Contribution to Reducing CO<sub>2</sub> from Product Usage</a>

(4) New environmental technologies and research and development	<u>Key Technologies</u>
(5) Environmentally conscious transportation	<u>Reducing CO<sub>2</sub> from Logistics</u>
	<u>Reducing the Use of Disposable Packaging Materials</u>
(6) Resource exploitations and real estate development/investment with less environmental impacts	<u>Environmental Accounting</u>
(7) Waste management and recycling	<u>Effective Utilization of Resources</u>
	<u>Strengthening Collaboration for Resource Recycling Business</u>
	<u>Recycling End-of-Life Products</u>
	<u>A New Dimension in Water Recycling</u>
	<u>Plastic Recycling Comes of Age</u>
	<u>Tapping into Hidden Deposits of Rare Earth Elements Found in Cities</u>

### 3. Data on Environmental Impact of Business Activities and Related Initiatives

#### Information and Indicators on Environmental Impact of Business Activities and Environmental Initiatives Undertaken to Mitigate Them

Item	Contents
1. Resources used and energy consumption	
(1) Total energy consumption and initiatives to reduce it	<a href="#">Material Balance</a>
	<a href="#">Environmental Performance Data</a>
	<a href="#">Reducing CO<sub>2</sub> from Production</a>
(2) Total materials used and initiatives to reduce them	<a href="#">Material Balance</a>
	<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>
(3) Water withdrawal and initiatives to reduce it	<a href="#">Material Balance</a>
	<a href="#">Environmental Performance Data</a>
	<a href="#">Using Water Effectively</a>
	<a href="#">A New Dimension in Water Recycling</a>
2. Recycled input resources (within the organizational boundary)	
	<a href="#">Using Water Effectively</a>
	<a href="#">A New Dimension in Water Recycling</a>
	<a href="#">Recycling End-of-Life Products</a>
	<a href="#">Plastic Recycling Comes of Age</a>
3. Products and services and environmental impacts arising from production	
(1) Total products manufactured or goods sold	<a href="#">Material Balance</a>
(2) Greenhouse gas emissions and initiatives to reduce them	<a href="#">From the President (Environment)</a>
	<a href="#">President's Message (CSR)</a>
	<a href="#">Environmental Vision 2021</a>
	<a href="#">8th Environmental Plan (Fiscal 2016–2018)</a>
	<a href="#">Targets and Achievements of the 8th Environmental Plan (Fiscal 2016–2018)</a>
	<a href="#">Reducing CO<sub>2</sub> from Production</a>
(3) Total water discharge and initiatives to reduce it	<a href="#">Material Balance</a>
	<a href="#">A New Dimension in Water Recycling</a>
(4) Effluents and nuisance, and initiatives to reduce them	<a href="#">Material Balance</a>
	<a href="#">Environmental Performance Data</a>
(5) Release and transfer of chemical substances and initiatives to reduce them	<a href="#">Managing Chemical Substances</a>
	<a href="#">Material Balance</a>
	<a href="#">Environmental Performance Data</a>
(6) Total weight of waste generated, waste disposed by land filling or incineration and initiatives to reduce them	<a href="#">Effective Utilization of Resources</a>
	<a href="#">Material Balance</a>
	<a href="#">Environmental Performance Data</a>
(7) Significant spills of hazardous substances and measures taken for preventing them	<a href="#">Environmental Risk Management</a>
4. Conservation of biological diversity and the sustainable use of its components	
	<a href="#">Creating a Society in Tune with Nature</a>

#### 4. Data on Economic and Social Context of Environment-focused Management

##### Information and Indicators on the Economic and Social Contexts of Environmentally Focused Management

Item	Contents
1. Economic Contexts of Environmentally Focused Management	
(1) Economic contexts in an enterprise	<u>Environmental Accounting</u>
(2) Economic contexts in society	<u>Environmental Accounting</u>
2. Social Contexts of Environmentally focused management	
	<u>Social</u>

#### 5. Miscellaneous Contents to be disclosed

Item	Contents
1. Events after the reporting period	
(1) Events after the reporting period	—
(2) Extraordinary events	—
2. Assurance and other measures to enhance reliability of environmental information	
	—

# CSR – ESG Survey Index

## ESG Survey Index

Messages from Top Management	<a href="#">President's Message (CSR)</a>
	<a href="#">From the President (Environment)</a>
Corporate Mission	<a href="#">Corporate Mission</a>
Organizational Profile	<a href="#">At-a-Glance</a>
	<a href="#">Locations Worldwide</a>
	<a href="#">Basic Policy on Human Resources</a>
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Financial Performance	<a href="#">Financial Highlights</a>
	<a href="#">Results by Business Segment</a>
	<a href="#">Financial Results</a>
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Vision & Strategy	<a href="#">Corporate Strategy</a>
	<a href="#">Contributing to Society through Business</a>
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CSR Activity Boundaries	<a href="#">About the Report</a>
CSR Management	<a href="#">CSR Management</a>
	<a href="#">CSR Materialities and Initiatives</a>
	<a href="#">Process of Identifying CSR Materialities</a>
	<a href="#">Long-term Perspective and Management Approach towards Solutions for Environmental Issues</a>




	CSR Activity Fields	Policies/ Regulations	Promotion Structure/ System/ Framework	Initiatives/ Activities Results
Corporate Governance	<ul style="list-style-type: none"> <li>Organizational Governance</li> </ul>	<u>Corporate Governance</u>		–
	<ul style="list-style-type: none"> <li>Transparency (Internal Supervision, Executive Compensation)</li> </ul>	<u>Corporate Governance</u>		–
	<ul style="list-style-type: none"> <li>Information Disclosure</li> <li>Responsibility to Shareholders and Investors</li> </ul>	<u>Responsibility to Shareholders &amp; Investors</u>		

	CSR Activity Fields	Policies/ Regulations	Promotion Structure/ System/ Framework	Initiatives/ Activities Results
Risk Management	<ul style="list-style-type: none"> <li>Organizational Governance (Risk Management System)</li> </ul>	<u>Basic Policy</u>		–
	<ul style="list-style-type: none"> <li>Preventing Pollution</li> </ul>	<u>Responding to Environmental Risk</u>		
	<ul style="list-style-type: none"> <li>Disaster response, BCP, BCM</li> </ul>	<u>Disaster Countermeasures</u>		
	<ul style="list-style-type: none"> <li>Information security</li> </ul>	<u>Our approach to information security</u>		

	CSR Activity Fields	Policies/ Regulations	Promotion Structure/ System/ Framework	Initiatives/ Activities Results
Compliance	<ul style="list-style-type: none"> <li>Organizational Governance</li> <li>Respect of Laws and Rules</li> <li>Respect of International Codes of Conduct</li> <li>Moral Behavior</li> <li>Fair business practices</li> </ul>	<u>Compliance</u>		

	CSR Activity Fields	Policies/ Regulations	Promotion Structure/ System/ Framework	Initiatives/ Activities Results
Human Rights	<ul style="list-style-type: none"> <li>• Due Diligence</li> </ul>	<u>Corporate Social Responsibility through the Supply Chain</u>	–	<u>Corporate Social Responsibility through the Supply Chain</u>
	<ul style="list-style-type: none"> <li>• Respect of Human Rights</li> <li>• Prevention of harassment</li> <li>• Human rights education</li> </ul>	<u>Respecting Human Rights</u>	–	<u>Respecting Human Rights</u>

	CSR Activity Fields	Policies/ Regulations	Promotion Structure/ System/ Framework	Initiatives/ Activities Results
Consumer Issues / Product Responsibility	<ul style="list-style-type: none"> <li>• Consumer Safety and Hygiene (Prevention of Defects)</li> <li>• Quality Control</li> </ul>	<u>Basic Policy</u> <u>Four Basic Quality Assurance Principles</u> <u>Product Safety-Related Principles</u>	<u>Management System</u>	<u>Quality Improvement Activities</u>
	<ul style="list-style-type: none"> <li>• Universal Design</li> <li>• Access to Essential Services</li> </ul>	<u>Providing Easy-to-Use Products</u>		
	<ul style="list-style-type: none"> <li>• Services and Support for Consumers (Customer Satisfaction)</li> <li>• Handling Complaints</li> </ul>	<u>Increasing Customer Satisfaction</u>		
	<ul style="list-style-type: none"> <li>• Consumer Safety and Hygiene (Response at the Time of Defect)</li> </ul>	<u>Responding to Product-Related Issues</u>		<u>Reporting Major Product Issues (in Japanese only)</u>  <u>Accident Reporting Based on the Consumer Product Safety Act (in Japanese only)</u> 

	CSR Activity Fields	Policies/ Regulations	Promotion Structure/ System/ Framework	Initiatives/ Activities Results
Supply Chain Management	<ul style="list-style-type: none"> <li>• CSR Procurement</li> <li>• Green Procurement</li> <li>• Exclusion of Conflict Minerals</li> <li>• Value Chain Social Responsibility</li> </ul>	<u>Corporate Social Responsibility through the Supply Chain</u>	<u>Procurement Network</u>	<u>Corporate Social Responsibility through the Supply Chain</u>

	CSR Activity Fields	Policies/ Regulations	Promotion Structure/ System/ Framework	Initiatives/ Activities Results
Labor Practices / Occupational Safety and Health	<ul style="list-style-type: none"> <li>• Employment practices</li> </ul>	<u>Basic Policy on Human Resources</u>	–	<u>Basic Policy on Human Resources</u>
	<ul style="list-style-type: none"> <li>• Promotion of Diversity (Promoting women, employing foreign nationals, elderly, and physically disabled)</li> </ul>	<u>Workforce Diversity</u>		
	<ul style="list-style-type: none"> <li>• Fair treatment</li> <li>• Improving employee satisfaction</li> </ul>	<u>Creating a Fulfilling Workplace</u>		
	<ul style="list-style-type: none"> <li>• Labor-Management dialogue</li> </ul>	<u>Relationship with Labor Unions</u>	–	
	<ul style="list-style-type: none"> <li>• Promotion of Work-life Balance(Combining child-rearing/nursing care and work, working-style reform)</li> </ul>	<u>Maintaining a Favorable Working Environment</u>		
	<ul style="list-style-type: none"> <li>• Training Human Resources</li> <li>• Career Development Support</li> </ul>	<u>Supporting Career Development</u>		
	<ul style="list-style-type: none"> <li>• Labor Safety and Hygiene</li> <li>• Promotion of Health</li> <li>• Mental Healthcare</li> </ul>	<u>Ensuring Occupational Safety &amp; Health</u>		

	CSR Activity Fields	Policies/ Regulations	Promotion Structure/ System/ Framework	Initiatives/ Activities Results
Community	<ul style="list-style-type: none"> <li>Philanthropic activities</li> </ul>	<u>Philanthropic Activities</u>		

	CSR Activity Fields	Policies/ Regulations	Promotion Structure/ System/ Framework	Initiatives/ Activities Results
The Environment	<ul style="list-style-type: none"> <li>Environmental Management</li> </ul>	<u>Group Environmental Policy</u>	<u>Environmental Management Structure</u>	–
		<u>Environmental Statement: Eco Changes</u>		–
		<u>Environmental Vision 2021</u>		–
		<u>Aiming to Become a Global Leading Green Company</u>		–
		<u>Environmental Risk Management</u>		<u>Environmental Risk Management</u>
		<u>Long-term Perspective and Management Approach towards Solutions for Environmental Issues</u>		<u>Long-term Perspective and Management Approach towards Solutions for Environmental Issues</u>
		<u>8th Environmental Plan (Fiscal 2016–2018)</u>		<u>8th Environmental Plan (Fiscal 2016–2018)</u>
		–		<u>Fiscal 2016 Environmental Data</u>
		–		<u>Environmental Audits</u>
	<ul style="list-style-type: none"> <li>Environmental Audits</li> </ul>	–		

<ul style="list-style-type: none"> <li>• Environmental Education</li> </ul>	<u>Training of Environmental Personnel</u>		<u>Training of Environmental Personnel</u>
<ul style="list-style-type: none"> <li>• Environmental Communication</li> <li>• Stakeholder Engagement</li> </ul>	<u>Environmental Communication</u>		<u>Environmental Communication</u>
	–		<u>Preserving biodiversity at business sites</u>
<ul style="list-style-type: none"> <li>• Development of Environment-compatible Products</li> <li>• Contributions to Environment through Business</li> <li>• CSV</li> </ul>	<u>Environmental Considerations for Products</u>		<u>The Environment and Business</u>
			<u>Realizing a Sustainable Society</u>
<ul style="list-style-type: none"> <li>• Green Procurement</li> </ul>	<u>Environmental Considerations for Procurement</u>		–
<ul style="list-style-type: none"> <li>• Prevention of Air Pollution</li> <li>• Prevention of Water Pollution</li> <li>• Prevention of Soil Contamination</li> <li>• Management of Chemical Substances</li> </ul>	<u>Managing Chemical Substances</u>	<u>Environmental Management Structure</u>	<u>Managing Chemical Substances</u>
<ul style="list-style-type: none"> <li>• Use of Sustainable Resources</li> <li>• Reducing Use of Resources</li> <li>• Reduction of Waste Emissions</li> <li>• Reduction of Water Consumption</li> <li>• Recycling</li> </ul>	<u>Effective Utilization of Resources</u>		<u>Effective Utilization of Resources</u>
	<u>Reducing Resource Inputs</u>		<u>Reducing Resource Inputs</u>
	–		<u>Recycling End-of-Life Products</u>
	<u>Strengthening Collaboration for Resource Recycling Business</u>		<u>Strengthening Collaboration for Resource Recycling Business</u>
	<u>Reducing the Use of Disposable Packaging Materials</u>		<u>Reducing the Use of Disposable Packaging Materials</u>
	<u>Using Water Effectively</u>		<u>Using Water Effectively</u>

		-	<a href="#">A New Dimension in Water Recycling</a>
		-	<a href="#">Plastic Recycling Comes of Age</a>
		-	<a href="#">Tapping into Hidden Deposits of Rare Earth Elements Found in Cities</a>
<ul style="list-style-type: none"> <li>• Climate Change</li> <li>• Reducing CO<sub>2</sub> Emissions</li> <li>• Reduction of Greenhouse Gas Emissions (SF<sub>6</sub>, PFC, HFC)</li> </ul>	<a href="#">Reducing Greenhouse Gases Emitted in the Value Chain</a>	<a href="#">Reducing Greenhouse Gases Emitted in the Value Chain</a>	
	<a href="#">Reducing CO<sub>2</sub> from Production</a>	<a href="#">Reducing CO<sub>2</sub> from Production</a>	
	<a href="#">Contribution to Reducing CO<sub>2</sub> from Product Usage</a>	<a href="#">Contribution to Reducing CO<sub>2</sub> from Product Usage</a>	
	<a href="#">Reducing CO<sub>2</sub> from Logistics</a>	<a href="#">Reducing CO<sub>2</sub> from Logistics</a>	
<ul style="list-style-type: none"> <li>• Biodiversity Conservation</li> </ul>	<a href="#">Group Biodiversity Action Guidelines</a>	-	
	<a href="#">Mitsubishi Electric Outdoor Classroom</a>	<a href="#">Mitsubishi Electric Outdoor Classroom</a>	
	<a href="#">"Satoyama" Woodland Preservation Activities</a>	<a href="#">"Satoyama" Woodland Preservation Activities</a>	
	<a href="#">Preserving biodiversity at business sites</a>	<a href="#">Preserving biodiversity at business sites</a>	
	<a href="#">Environmental Considerations for Procurement</a>	<a href="#">Environmental Considerations for Procurement</a>	

	CSR Activity Fields	Policies/ Regulations	Promotion Structure/ System/ Framework	Initiatives/ Activities Results
Brand Management	<ul style="list-style-type: none"> <li>• Protection of Company's Intellectual Property Rights</li> <li>• Respect for Intellectual Property Rights of Others</li> <li>• Brand Management</li> </ul>	<a href="#">Protection of Intellectual Property Rights</a> <a href="#">Intellectual Property</a>		

	CSR Activity Fields	Policies/ Regulations	Promotion Structure/ System/ Framework	Initiatives/ Activities Results
Innovation Management	<ul style="list-style-type: none"> <li>Research &amp; Development</li> </ul>	<u>Basic Policy</u>	<u>R&amp;D Centers</u>	<u>Research &amp; Development</u>
				<u>ADVANCE Magazine</u>

	CSR Activity Fields	Policies/ Regulations	Promotion Structure/ System/ Framework	Initiatives/ Activities Results
Dialog with stakeholders	<ul style="list-style-type: none"> <li>Stakeholder dialog</li> <li>Stakeholder engagement</li> </ul>	–	–	<u>Communication with Stakeholders</u>
		–	–	<u>Preserving biodiversity at business sites</u>