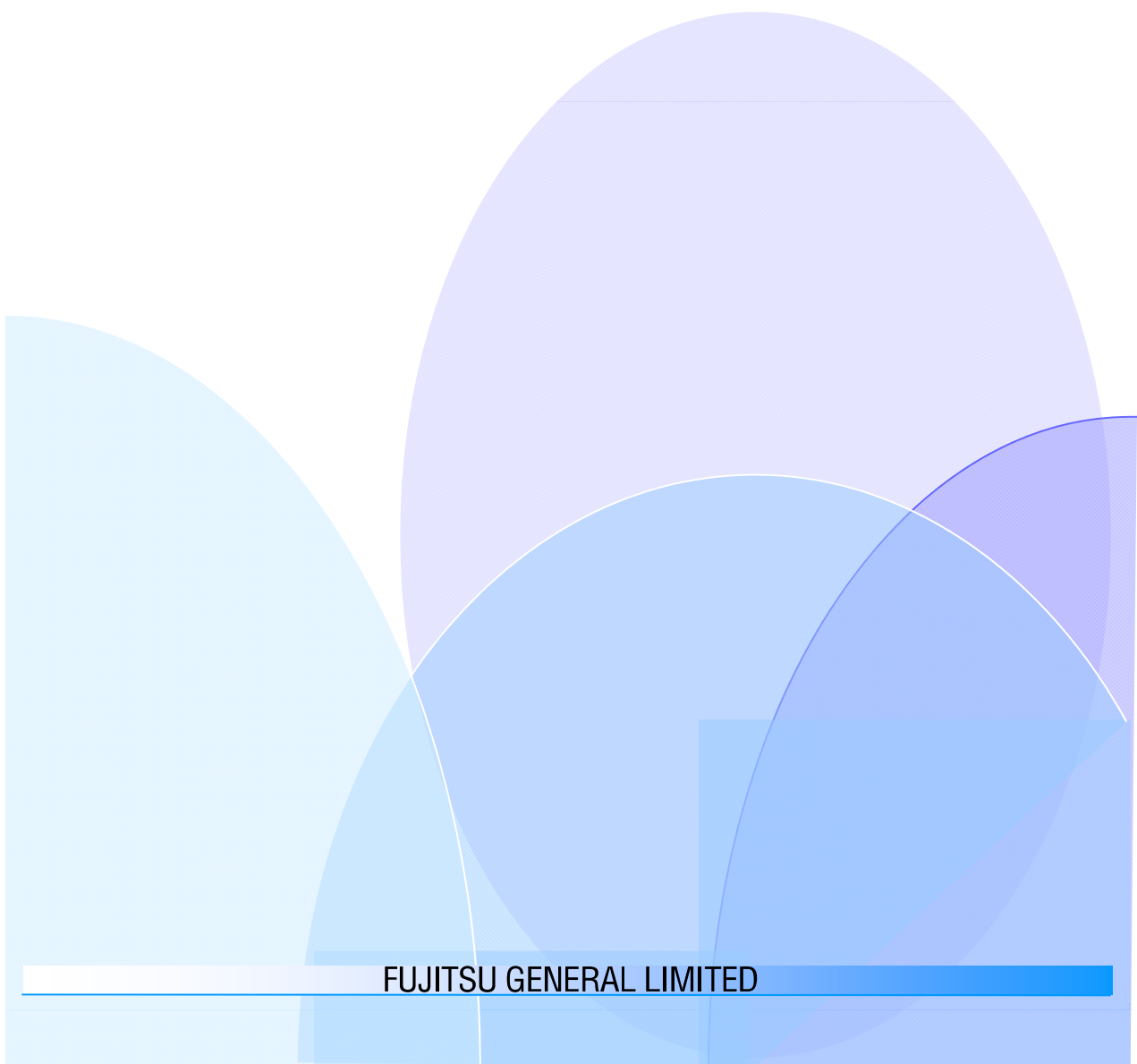
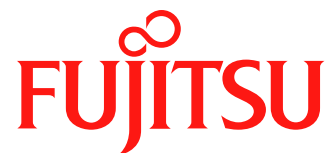


**FUJITSU GENERAL GROUP  
ENVIRONMENTAL ACTIVITIES  
2011 ACHIEVEMENTS**



**FUJITSU GENERAL LIMITED**

## Corporate Overview

Name: FUJITSU GENERAL LIMITED  
Head office location: 1116, Suenaga, Takatsu-ku, Kawasaki  
213-8502, Japan  
Established: January 15, 1936  
Capital: 18,089 million yen (as of March 31, 2012)  
Net sales (consolidated): 203,549 million yen (FY2011)  
Employees (consolidated): 5,345 (as of March 31, 2012)  
Main business: Development, production, sales and service  
of products and parts in the fields of air  
conditioners, information & communication  
systems and electronic devices

### Main products and services (consolidated)

#### [Air conditioners]

Air conditioners, VRF (Multi air conditioning system for buildings), ATW (Air-to-Water, heat-pump type hot water heating system) and Air conditioning related products.

#### [Information & Communication system]

Fire-fighting systems, Disaster prevention systems, POS systems, Video systems, Automotive cameras, Electronic parts and Unit products

#### [Others]

Recycling of electric home appliances  
Radio interference measurement and consulting

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### ● Period covered:

FY2011 (April 1, 2011 – March 31, 2012),  
Partial contents from other period included

### ● Description referring to the future:

The matters referring to the future described in this report are the contents based on the information at the time of drawing up.

### ● Sites covered:

Reports relating to environmental activities are covering Fujitsu General Limited, domestic affiliated companies (11 companies), main overseas manufacturing companies (5 companies) and main overseas sales subsidiary companies (13 companies)

### ● Reference Guidelines:

• "Environmental Report Guideline 2007" by The Ministry of Environment  
• "Environmental Accounting Guideline 2005" by The Ministry of Environment

## Message from Management

Based on the corporate vision of “contributing to the creation of a comfortable and safe society and bringing about a prosperous future that fulfils the dreams of people throughout the world”, our company aims to contribute to the society by pursuing to produce “comfortable, safe and secure” products in all our business domain including air conditioners, information & communication and electronic devices.

To realize this aim, we are promoting the “contribution to the reduction of environmental burden for customers and society” by providing environmentally-friendly products and services and the “reduction of environmental burden within our business activities”. In the “Environmental Protection Program Stage VI” targeting three years from FY2010 to FY2012, we have been working on 5 key challenges setting 15 themes, including pursuit of the industry's top level environmental performance (such as energy saving) in our development of Super Green Products, reduction of environmental burden (global warming, resource depletion, chemical substance) within corporate activity and the promotion of combined environmental management by all group companies in Japan and abroad.

As actual results of activities in FY2011, we have nearly achieved the yearly goals in all the themes of the “Environmental Protection Program Stage VI”. Furthermore, we strengthened our efforts of resource recycling by reusing resources from used electric home appliances into our company's products, to contribute to regional activities we have enhanced environmental communication such as "Delivery lectures on energy conservation" to elementary and junior high schools and cleaning and greening around the company offices. In FY2012, which is the final year of the “Environmental Protection Program Stage VI”, we will focus on the achievement of all goals and make company-wide efforts aiming to increase the level of environmental activities.

This time, we collected the activities of global environmental protection of Fujitsu General Group and FY2011 environmental activity achievements as “Fujitsu General Group Environmental Activities”. In order to further enhance our environmental activities, we hope that you will kindly read the report and give us your candid comments and advices.

Junichi Murashima

President and Representative Director  
Fujitsu General Limited



# Basic Stance on Environment

## ■ FUJITSU GENERAL Way

The FUJITSU GENERAL Way expresses the common practice of action that all Fujitsu General Group employees should share and implement. United by a common philosophy and guidelines, the Fujitsu General Group aims to contribute to the creation of a comfortable and safe society.

### Corporate Vision

Through our constant pursuit of innovation, the Fujitsu General Group contributes to the creation of a comfortable and safe society and brings about a prosperous future that fulfils the dreams of people throughout the world.

#### [Fujitsu General Group business goals]

- Global business development
- Harmonious coexistence with the world's people
- Business operation with open communication

### Corporate Values

< What we strive for >	Society and Environment	: In all our actions, we protect the environment and contribute to the society.
	Profit and Growth	: We strive to meet the expectation of customers, employees and shareholders.
	Shareholders and Investors	: We seek to continuously increase our corporate value
	Global Perspective	: We think and act from a global perspective.
< What we value >	Employees	: We respect diversity and support individual growth.
	Customers	: We seek to be their valued and trusted partner.
	Business Partners	: We build mutually beneficial relationships.
	Technology	: We seek to create new value through innovation.
	Quality	: We support the reputation of our customers and the reliability of society.

### Principles

Global Citizenship	: We act as good global citizens, attuned to the needs of society and the environment.
Customer-centric Perspective	: We think from the customer's perspective and act with sincerity.
Firsthand Understanding	: We act based on a firsthand understanding of the actual situation
Spirit of Challenge	: We strive to achieve our highest goals.
Speed and Agility	: We act flexibly and promptly to achieve objectives.
Teamwork	: We share common objectives across organizations, work as a team and act as responsible members of the team.

### Code of Conduct

- We respect human rights.
- We act with fairness in our business dealings.
- We maintain confidentiality.
- We comply with all laws and regulations.
- We protect and respect intellectual property.
- We do not use our position in our organization for personal gain.

## ■ Fujitsu General Group Environmental Policy

The Fujitsu General Group Environmental Policy expresses the philosophy and action plan for practicing the environmental activities continually in all business domains based on the Fujitsu General Way.

### Philosophy

The Fujitsu General Group believes that working to preserve the environment is an important part of doing business. Based on this philosophy, we contribute to building a comfortable and safe society and developing a sustainable society by bringing about a prosperous future that fulfils the dreams of people throughout the world. Besides observing environmental laws and norms in the course of doing business, we carry out environmental activities on our own initiative. Moreover, the entire organization and all employees remain committed to continuing past efforts to ensure that future generation will enjoy a rich and diverse environment.

### Action Plan

- Contribute to the reduction of environmental burden for our customers and society and the enhancement of environmental efficiency by pursuing excellent technology and providing comfortable and safe products and services.
- Reduce environmental burden throughout every stage of the product life cycle.
- Introduce Top Runner products with even better energy and resource efficiency and 3R (reduce, reuse, recycle) compliancy.
- Prevent environmental risks that cause environmental pollution and health hazards caused as a result of using toxic chemicals and waste.
- Disclose business activities, products and solutions related to the environment, acknowledge feedback concerning them, and apply what we learn to improving our environmental activities.
- Every employee is committed to contribute to the global environmental protection including climate change control and biodiversity protection from the perspective of their own work role and as a member of the community and aims to further spread it to the society.

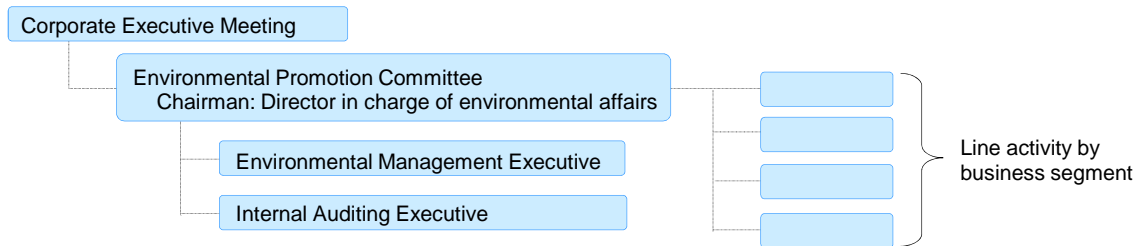
## ■ Environmental Management System

In order to promote voluntary and continual environmental protection activity, Fujitsu General Group is promoting environmental activities based on the International Standard (ISO14001) of Environmental Management System (EMS).

Each of the overseas production bases (5 companies) has completed the acquisition of ISO14001 individually and all of the domestic business bases (12 companies and 26 business offices) acquired integrated certification by 2008. In 2012, we are planning to acquire the certification at overseas sales subsidiaries and aiming to further strengthen the company-wide environmental activity.

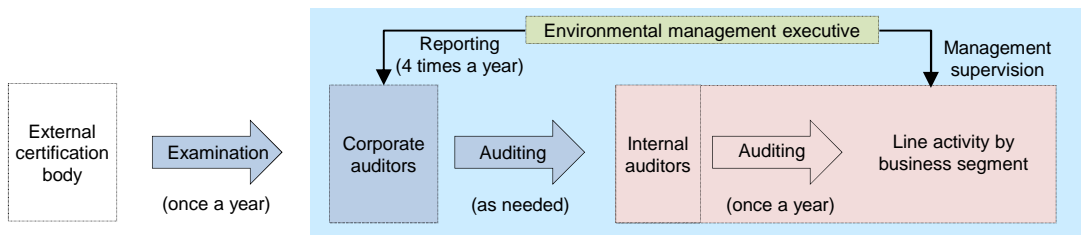
## ■ Environmental Promotion Framework

We are discussing the specific measures regarding environmental management themes and measures to materialize the “Fujitsu General Group Environmental Policy” in the “Environmental Promotion Committee” held regularly and making final decision in the Corporate Executive Meeting. The contents of decision are notified from the Chairman of the Committee through the managers of organizations. Thus, all the employees are working on the environmental protection activities.



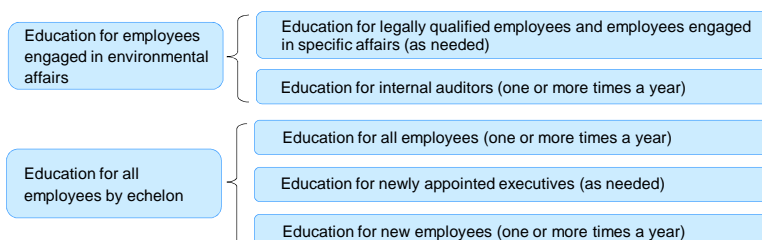
## ■ Environmental Auditing Framework

As an auditing framework of the environmental management system, we are implementing the examination by external certification body and internal auditing by internal auditors once a year. Also, the strengthening of auditing framework is pursued by reporting on the environmental activities 4 times a year from environmental management executives to corporate auditors from FY2010. In the internal auditing in FY2011, 107 cases were pointed out in the operation management and document management and 5 cases of minor nonconformity were indicated, for both of which correction measures were already taken and the status of correction will be confirmed in the internal auditing of FY2012. In the examination by external certification body, no cases of nonconformity were pointed out.



## ■ Environmental Education

Fujitsu General Group is conducting a systematic environmental education for all the employees to increase awareness of the relation between corporate activities and the environment in order to conduct environmentally protective corporate activities. The education system consists of two sections, which one is ways for those engaged in the environmental affairs and the other is for all the employees divided by various levels which are implemented according to the plan throughout the year.



Education for internal auditors  
(Kawasaki head office in August)

# Activities for Reducing Environmental Burden

Recognizing that the activity for global environment protection is one of the important management themes, Fujitsu General Group is continually promoting the environmental activities according to the plan based on the “FUJITSU GENERAL Way” and “Fujitsu General Group Environmental Policy” for the reduction of environmental burden for customers and society as well as for the reduction of environmental burden within our business activities.

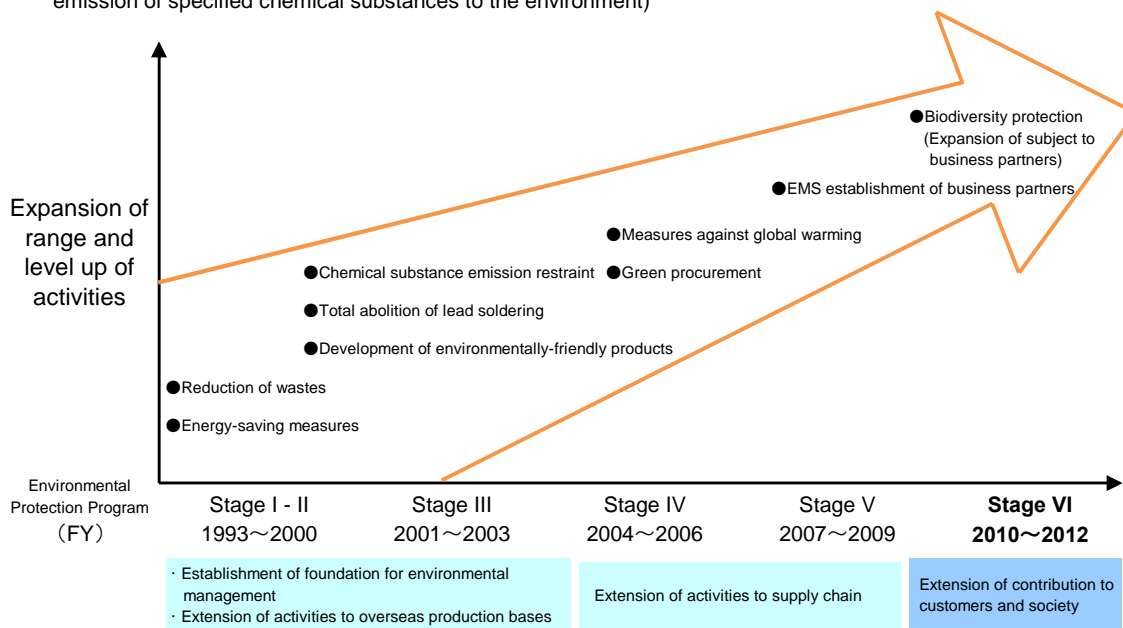


## Environmental Protection Program Stage VI (FY2010 – 2012)

As the plan to materialize the “Fujitsu General Group Environmental Policy”, the “Environmental Protection Program Stage VI (FY2010 – 2012)” setting the important themes and numerical goals started in April, 2010.

With regard to the “Environmental Protection Program Stage VI”, we are making company-wide efforts towards environmental themes at world level such as climate change problems and biodiversity protection, setting the 5 key challenges “development of environmentally-friendly products and technologies”, “reduction of green house gas emission”, “extension of environmental activity to overseas sales subsidiaries and parts/material suppliers”, “suppression of emission of wastes and PRTR<sup>(1)</sup> subject chemical substances” and “activities for biodiversity protection”.

<sup>(1)</sup> PRTR: Pollutant Release and Transfer Register (Law relating to the promotion of comprehension and management of emission of specified chemical substances to the environment)



History of Environmental Protection Program

## Environmental Protection Program Stage VI (Targets and Results)

	Environmental Protection Program Stage VI (End of FY2012)	FY2011		Status <sup>(*)</sup>	Related pages
		Targets	Results		
Reduction of environmental burden for customers and society	<b>1. Development of environmentally-friendly products and technologies</b>				
	<b>1) Develop all products as “Green Products”</b> Make all newly developed products in and after FY2010 “Green Products” <sup>(*)</sup>	100 %	100 %	○	P6
	<b>2) Development ratio of “Super Green Products”</b> Make more than 30% of development models “Super Green Products” for each year <sup>(*)</sup>	30 %	41 %	○	
<b>3) Development of environmentally-friendly technology</b>	100 %	100 %	○		
Reduction of environmental burden within our business	<b>2. Reduction of greenhouse gas emission</b>				
	<b>Reduction of CO<sub>2</sub> emission</b> <Domestic business offices> Reduce energy consumption CO <sub>2</sub> emission by 35% in total amount compared to FY1990 by the end of FY2012 <sup>(*)</sup>	24 %	34.5 %	○	P8
	<Overseas production bases> Reduce energy consumption CO <sub>2</sub> emission by 30% in production output basic unit compared to FY2006 by the end of FY2012 <sup>(*)</sup>	24 %	28.4 %	○	
	<Domestic distribution> Reduce energy consumption CO <sub>2</sub> emission by 40% in total amount compared to FY2006 by the end of FY2012.	38 %	33.8 %	△	
	<b>3. Extension of environmental activities to overseas sales subsidiaries and parts/material suppliers</b>				
	<b>1) Acquisition of ISO14000 at overseas sales subsidiaries</b> Acquire ISO14000 globally at domestic and overseas production bases and sales bases	Level II establishment <sup>(*)</sup>	Level II establishment	○	—
	<b>2) EMS establishment at all overseas parts/material suppliers</b> <sup>(*)</sup> (Higher than Level II : 80%)	Higher than Level II 75 %	Higher than Level II 75.5 %	○	P11
	<b>4. Suppression of emission of wastes and PRTR subject chemical substances</b>				
	<b>1) Reduction of wastes</b> <Domestic business offices> Reduce emission of wastes by 30% in total amount compared to FY2009 by the end of FY2012	20 %	20.2 %	○	P12
	<Overseas production bases> Reduce emission of wastes by 50% in production output basic unit compared to FY2009 by the end of FY2012	45 %	47.4 %	○	
<b>2) Reduction of PRTR subject chemical substance emission</b> Reduce PRTR subject chemical substance emission by 80% in total amount compared to FY2005 by the end of FY2012.	68 %	73.9 %	○	P13	
<b>5. Activity for biodiversity protection</b>					
· Establishment of action plan and guideline for biodiversity protection	Establishment of action plan and guideline	Working on draft (under examination)	△	—	
· Implementation of biodiversity protection activity at each business office and area					

<sup>(\*)</sup> ○: Achieved △: Partly not achieved

<sup>(\*)</sup> Targeting our products newly developed within target year

<sup>(\*)</sup> Aiming to increase the level of activities and targeting higher goals than original plan

<sup>(\*)</sup> EMS : Environmental Management System

(System and procedure relating to the environmental protection activity, e.g., International Standard ISO14001)

<sup>(\*)</sup> Expressing the level in the Fujitsu General Group's own EMS.

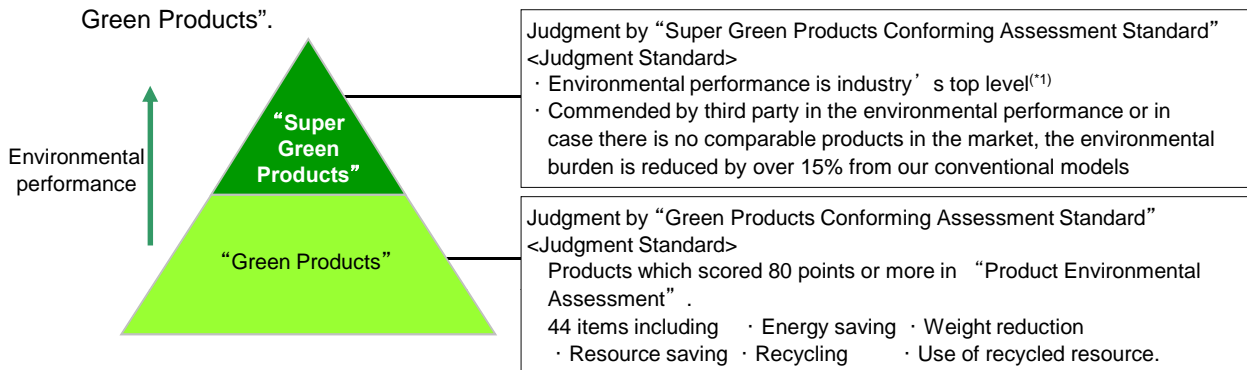
Level II: Establishment of our own EMS as step-up to acquisition of third party certification such as ISO14000.

# Reduction of Environmental Burden for Customers and Society

## Development of Environmentally-friendly Products

We are working on the development of products excelling in environmental performance (such as energy conservation and resource saving) compared with conventional models in all the products in order to provide environmentally-friendly products pursuing “comfort, safety and security”.

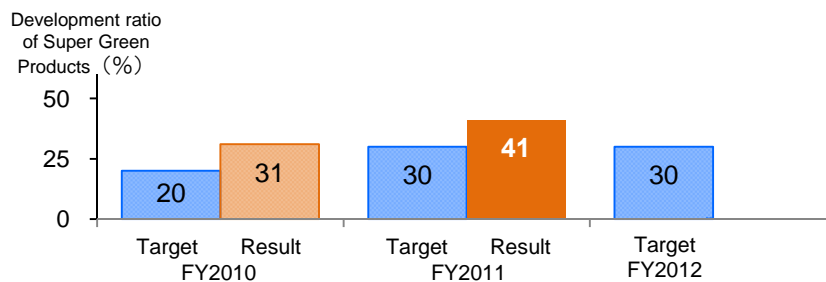
Specifically, at the planning and development stage of each new development item, development targets are set according to the "Production Environment Assessment" which classifies environmental performance in 44 items. Then, after assessing whether the targets are achieved at the stage of designing and test production, the products which cleared the “Green Products Conforming Assessment Standard” are commercialized as “Green Products”. Moreover, products among the Green Products that have outstanding environmental performance such as top level performance within the industry <sup>(\*)</sup> and/or products that are commended for its environmental performance by a third party are recognized as “Super Green Products”.



\*1 “Criteria on use of “No. 1” on products” by Home Electric Appliances Fair Trade Conference.

## Activities in FY2011

In FY2011, all the newly developed products were made as “Green Products”. Furthermore, out of the “Green Products”, 41% of newly developed models were recognized as “Super Green Products”.



## Development of Environmentally-friendly Technologies

To provide the products to contribute to the reduction of environmental burden for customers and society, we are working on the development of technologies to realize the excellent energy conservation performance and resource saving.

Air conditioners	<ul style="list-style-type: none"> <li>Development of “High density multi-path heat exchanging technology” which enables both energy saving and high power</li> <li>Development of “FUZAI (absence) eco” technology to detect absence of human by sensor and control operation</li> </ul>
Deodorizers (PLAZION)	<ul style="list-style-type: none"> <li>Development of “eco operation technology” to cut consumption power by 25% while maintaining the same deodorizing performance</li> </ul>
Information & communication system	<ul style="list-style-type: none"> <li>Development of high efficient power amplifier for digital wireless equipment (Downsizing and resource saving)</li> </ul>
Automotive camera	<ul style="list-style-type: none"> <li>Development of image processing LSI by advanced semiconductor processing (micro technology) (Downsizing and resource saving)</li> </ul>



## ■ Introduction of “Super Green Products”

### Air conditioners for domestic market

#### Energy saving

Models : AS-Z71B2W, AS-Z63B2W, AS-Z56B2W  
Reason for recognition : Industry's top energy consumption efficiency  
Product features : Power saving by finding waste in use with  
“Self-operated eco” function



### Air conditioners for Europe

#### Energy saving

Models : ASYG07LU, ASYG09LT, ASYG09LU, ASYG12LT, ASYG14LU  
Reason for recognition : Industry's top average heating/cooling energy efficiency  
Product features : Both high energy-saving performance and  
thin-type design are compatible.



#### Third party commendation

- Received “iF product design award 2012” of “iF design award”<sup>(\*)</sup> (iF International Forum Design GmbH)
  - Neat external design both in operation and non-operation modes keeping harmony with the indoor space
  - Thin and simple design of remote controller by arranging only frequently-used buttons on the top surface
- Received “GOOD DESIGN AWARD 2011” (Japan Institute of Design Promotion)

<sup>\*</sup> An internationally authoritative design award with history of more than half a century sponsored by iF International Forum Design GmbH (Hannover, Germany)

### Plazma ion UV humidifying deodorizer (PLAZION)

#### Energy saving

Models : DAS-303A  
Reason for recognition : Enhanced energy-saving performance by 25% compared<sup>(\*)</sup> to our conventional products  
Product features : Smart power saving by eco operation mode and improved efficiency by triple deodorizing



<sup>\*</sup> Compared to 2010 model (DAS-303W) having equal functions

### Transportable wireless mobile station (Fire-fighting and disaster prevention system)

#### Resource saving

Models : CM-2010SM  
Reason for recognition : Product volume reduced by 57% compared to our conventional products<sup>(\*)</sup>  
Product features : Portability improved by downsizing and power saving



<sup>\*</sup> Compared to 2001 model (QB-328) having equal functions

### In-vehicle rear-view camera

#### Resource saving

Models : CJ-B25NB1K, CJ-B26NB1K, CJ-B35NB1K, CJ-B36NB1K  
Reason for recognition : Product volume reduced by 40% compared to our conventional products<sup>(\*)</sup>  
Product features : High performance and high function realized by our own image processing technology



<sup>\*</sup> Compared CJ-B25NB1K to 2010 model (CJ-025NB1K) having equal functions

# Reduction of Environmental Burden within Our Business Activities

## ■ Reduction of Energy Consumption, CO<sub>2</sub> Emission

Toward the reduction of energy consumption CO<sub>2</sub> emission in the business, we are promoting the activities to enhance energy consumption efficiency by implementing measures to save energy for facility, improve logistics efficiency and save power activities.

### FY2011 targets and results of reduction

	【Indicator】	【Targets】	【Results】
Domestic business offices	: Compared with FY1990 in total amount	24%	→ <b>34.5%</b>
Overseas production bases	: Compared with FY2006 in production output basic unit	24%	→ <b>28.4%</b>
Domestic products logistics	: Compared with FY2006 in total amount	38%	→ <b>33.8%</b>

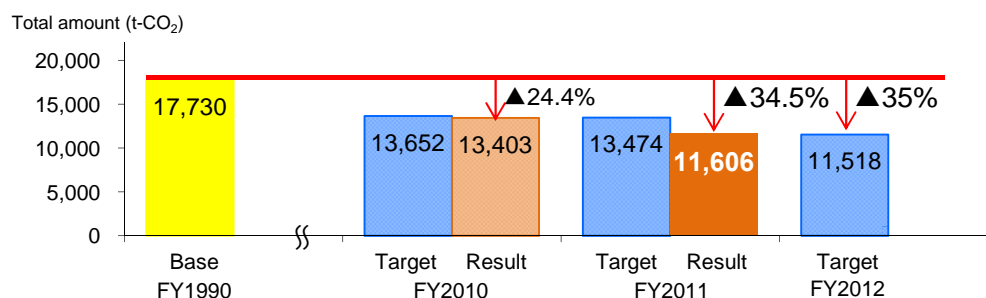
### FY2011 Activities

#### 【Domestic business offices】

We implemented meticulous power saving measures corresponding to the environment of workplace at offices and factories by grasping the daily power usage at all the business bases and practicing PDCA cycle. Also, regarding the electricity usage restriction enforced due to the impact of the Great Eastern Japan Earthquake, we worked on the power saving activities at all the business offices in Japan setting more stringent internal target (-20% in summer and -10% in winter) of power saving than requested by the government. As a result, we reduced CO<sub>2</sub> emission by 34.5% compared to FY1990.

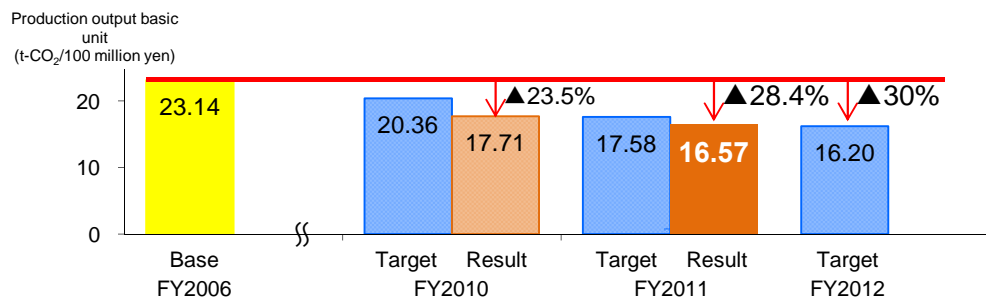
#### <Examples of activities>

- Improvement of operation of air conditioner test facilities (Change of operation method and temperature setting)
- Reduction of lighting hours by strict control of lighting
- Centralized control of air conditioner setting temperature (office buildings and floors) and improvement of operation efficiency combining the use of electric fans.



#### 【Overseas production bases】

The electricity usage increased due to the increased production of air conditioners for the growing demand in Japan and overseas and the strengthening of the development setup at the overseas production bases. We implemented the improvement of energy consumption efficiency by renovating old facilities, shifting the production facility to inverter type and continually promoting production renovation activities. As a result, CO<sub>2</sub> emission was reduced by 28.4% compared to FY2006 in production output basic unit.



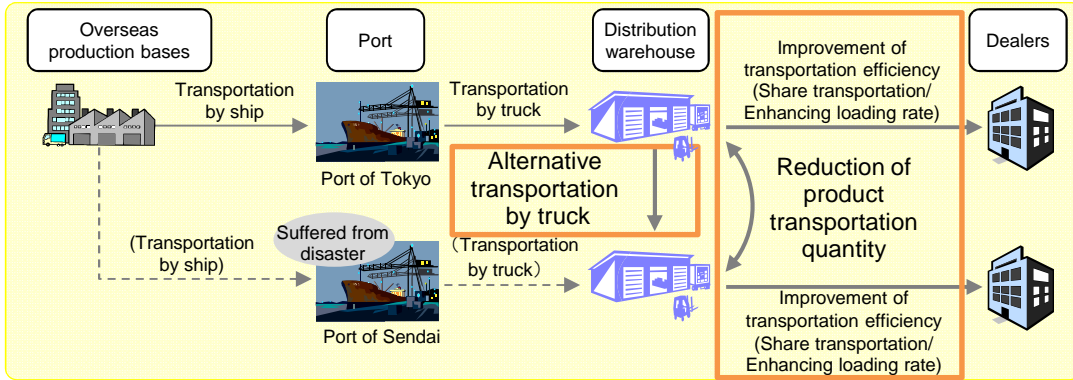
CO<sub>2</sub>emission calculation base:

Electricity : Japan 「0.407t-CO<sub>2</sub>/MWh」 Overseas factories 「0.410t-CO<sub>2</sub>/MWh」

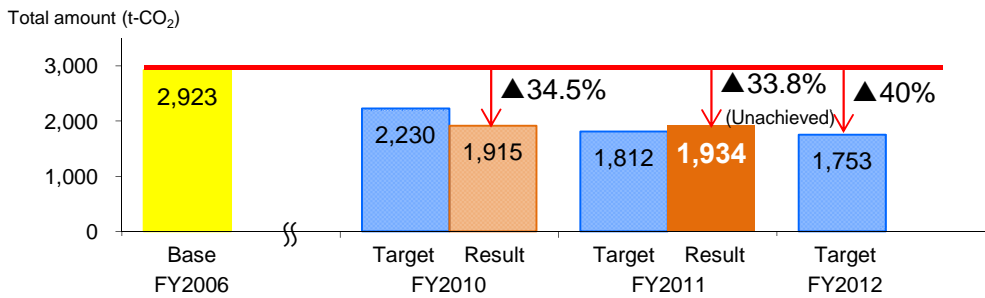
Fuel : Ministry of the Environment "Greenhouse Gas Emission Calculation Guideline (March, 2007)"

**【Domestic product logistics】**

We continually worked on the reduction of product transfer between distribution warehouses by enhancing the accuracy of sales forecast and the improvement of efficiency of transportation from warehouse to dealers, but as the port of Sendai could not be used due to the Great Eastern Japan Earthquake the alternative transportation by truck increased temporarily, which increased CO<sub>2</sub> emission. As a result, CO<sub>2</sub> emission was reduced by 33.8% in total amount compared to FY2006.



Reduction of environmental burden in domestic product distribution

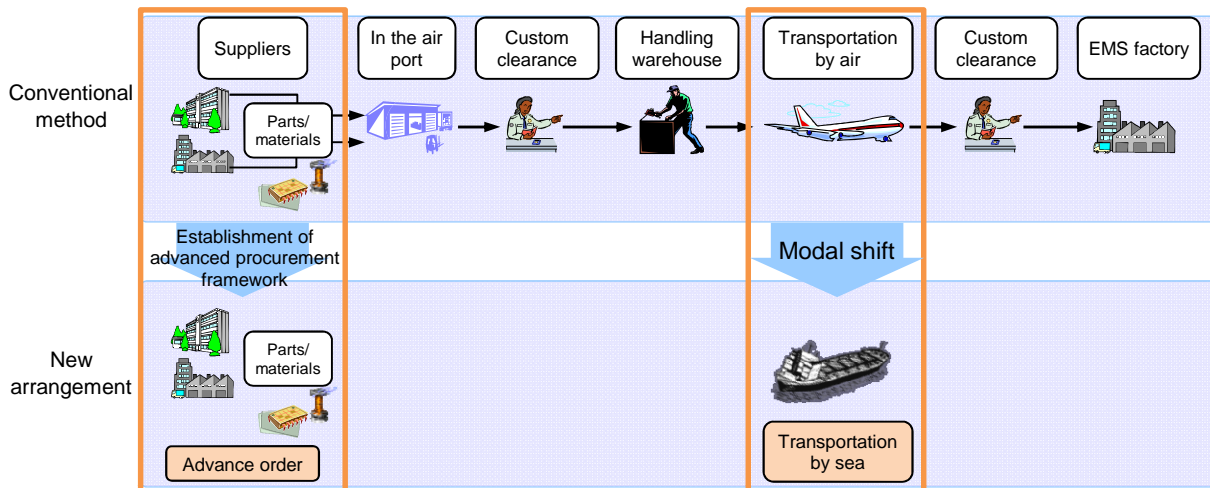


**Other activities**

**【Part/material transportation to overseas】**

To reduce the transportation cost of parts/materials from Japan to overseas EMS<sup>(\*)</sup> factories and CO<sub>2</sub> emission, we implemented the modal shift from air shipment to sea shipment. We realized the shift from air shipment to sea shipment by establishing the framework necessary for advanced procurement such as the enhancement of demand forecast of parts/materials and shortening of procurement period of parts/ materials from suppliers.

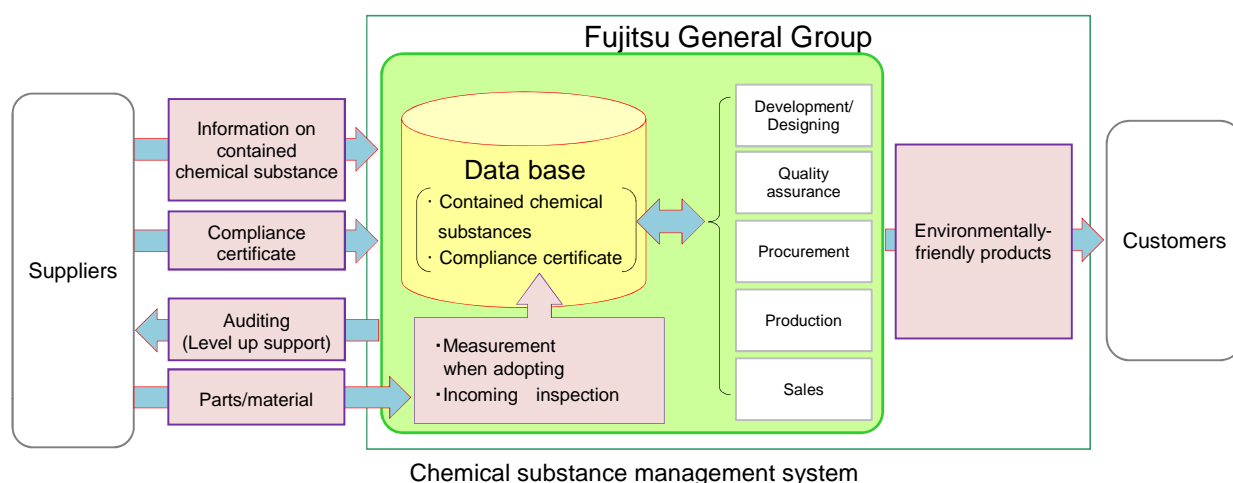
\* EMS (Electronics Manufacturing Service): Service to produce electronic appliances on consignment



# Reduction of Environmental Burden within Our Business Activities

## Measures for Chemical Substance Emission Restraint

To comply with the laws and regulations in Japan and overseas relating to chemical substances contained in the products, we are establishing and operating our own chemical substance management system. With regard to the specified banned substances whose use is prohibited by law, we carry out our own measurement and recognize non-containment when adopting new parts/material. Furthermore, at production, we verify that the specified banned substances are not used by conducting incoming inspection of the supplied parts/material. Moreover, in order to minimize the risk of chemical substances contained in the products, we collect information of the chemical substances contained in the supplied parts/material and manage the information of containment centrally for each product.



### FY2011 Activities

Based on the concept that the measures against the chemical substance contained in the products are “the issue of the whole supply chain”, we are working on the establishment and operation of the chemical substance management system together with suppliers.

#### 【Strengthening of management setup】

Targeting the suppliers for overseas production bases, we conducted the assessment of management level of chemical substances using check sheets. Further, in order to strengthen the management setup of our suppliers, we have conducted guidance and trainings most suitable for each level set in our company’s authorization standard <sup>(1)</sup> together with on-site examinations.

#### 【Enhancement of efficiency of survey activity】

Conventionally, we conducted the survey of chemical substances contained in the supplied parts/material by using “JGPSSI Survey Tool” <sup>(2)</sup>. However, in this survey method, additional survey to supplier was required whenever the substance of very high concern (SVHC) <sup>(4)</sup> was added according to the REACH Regulations <sup>(3)</sup>. Therefore, we changed the survey tool to “AIS Survey Tool” <sup>(5)</sup> and established a system to make aggregated survey of all information regarding chemical substances contained in the parts. As a result, we improved the survey efficiency as it is not necessary to ask suppliers to make additional surveys.

<sup>1</sup> Based on the “Chemical Substance Management Guideline” published by Joint Article Management Promotion-consortium (JAMP) and Japan Green Procurement Survey Standardization Initiative (JGPSSI)

<sup>2</sup> Survey tool provided by Japan Green Procurement Survey Standardization Initiative (JGPSSI)

<sup>3</sup> Chemical substance regulations in European Union.

<sup>4</sup> Authorization subject candidate substances for which registration is required in the REACH Regulations

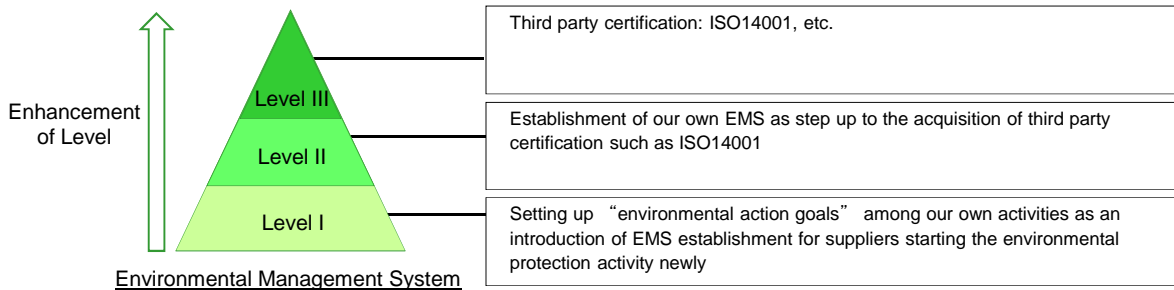
<sup>5</sup> Survey tool recommended by Japan Green Procurement Survey Standardization Initiative (JGPSSI)



Briefing of AIS survey tool  
(at Kawasaki head office in March 2012)

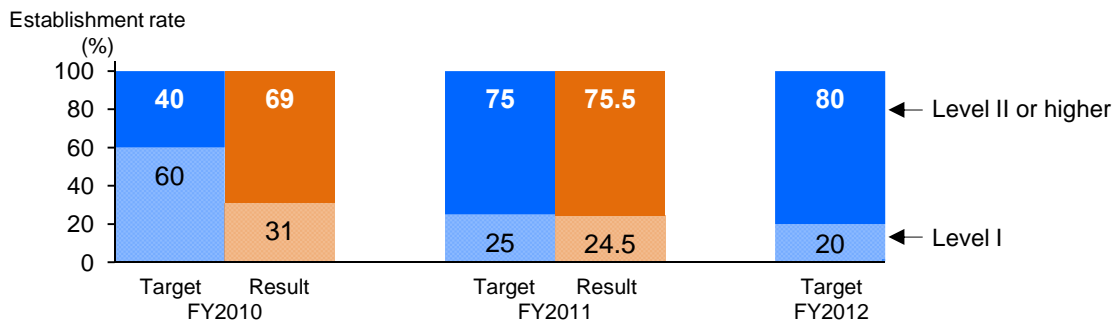
## ■ EMS Establishment at all Overseas Parts & Material Suppliers

We are asking all our suppliers for their cooperation regarding the establishment of Environmental Management System (EMS) and the enhancement of level of their activities. To that end, we implement various supporting activities.



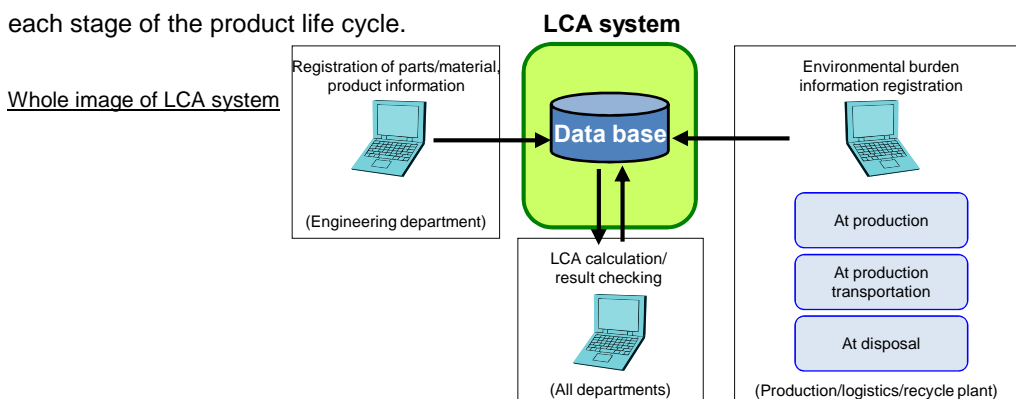
### FY2011 Activities

We conducted the guidance and auditing for establishment of EMS and level up of parts/material suppliers mainly by the purchasing department and quality assurance department of overseas production bases. As a result, 75.5% of the suppliers established Level II or higher.



## ■ Implementation of Life Cycle Assessment (LCA)

For the purpose of reducing the environmental burden of the whole life cycle of the products from parts/material procurement to the disposal of products, we developed the “LCA Automatic Calculation System” in FY2010 and are working on the comprehension and reduction of environmental burden at each stage of the product life cycle.



### FY2011 Activities

We realized LCA evaluation for representative models by aggregating environmental burden information managed by LCA system and parts/material and model information. As a result, we could grasp the CO<sub>2</sub> emission of the total product lifecycle for each product and also, enhanced the reliability of LCA calculation results by improving the accuracy of environmental burden information. Regarding all the products to be developed newly from FY2012, we will strive to reduce environmental burden by setting the targets to reduce CO<sub>2</sub> emission from environmental burden at each stage of the product lifecycle.

## Reduction of Environmental Burden within Our Business Activities

### Measures Against Wastes

Aiming to realize a recycling-oriented society, Fujitsu General Group is working on the effective use of the limited resources by promoting the activity to not generate waste and to use generated waste effectively.

#### FY2011 targets and results of reduction

	【Indicator】	【Targets】	【Results】
Domestic business offices	: Compared to FY2009 in total amount	20%	→ <b>20.2%</b>
Overseas production bases	: Compared to FY2009 in production output basic unit	45%	→ <b>47.4%</b>

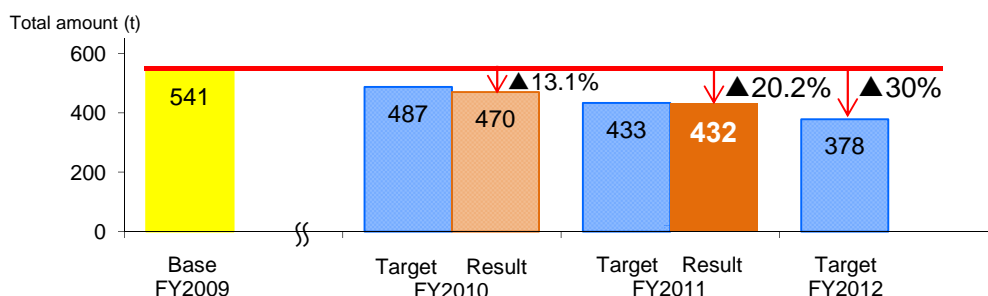
#### FY2011 Activities

##### 【Domestic business offices】

At the production bases, we restrained the generation of wastes by completely changing the packing materials for the parts supplied from suppliers from cardboards to plastic returnable boxes. Also, to reduce the discards generated at the injection process of moulding parts used for motors when stopping the moulding machine, we implemented the continuous operation of moulding machine adopting shift working system for workers.

At the sales and service bases, we are promoting the activity to reuse a part of the metallic waste generated during product maintenance as resource. We unified the sorting rule of the waste and notified all the bases by providing manuals.

As a result, we reduced the emission of wastes by 20.2% in total amount compared to FY2009.

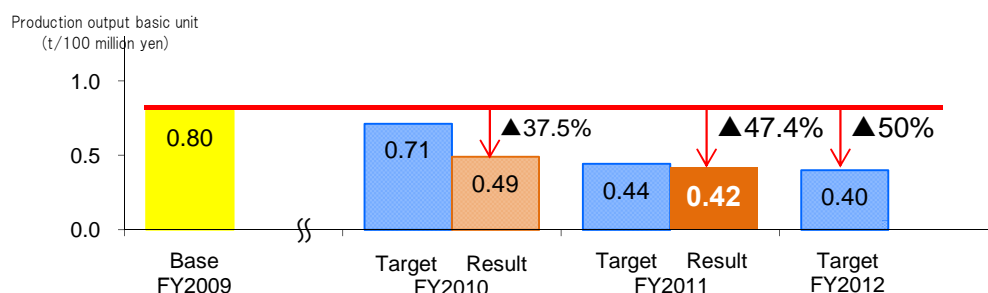


##### 【Overseas production bases】

In order to reduce the waste, we promoted the thorough sorting and effective use of waste. As examples of the activity, at the production base in Thailand, we reused the coolant-adhered aluminum scrap which was being disposed as waste by gathering them in containers and by removing moisture using a high temperature tank.

At the production base in China, we worked on the activity to not generate waste by shifting the packing material for the parts/materials from cardboards to plastic returnable boxes which can be used repeatedly and also by promoting the paperless office.

As a result, we reduced the emission of waste by 47.4% in production output basic unit compared to FY2009.



## Emission Restraint of PRTR subject Chemical Substance

Based on the Act on Promotion of Confirmation and Release of Chemical Substances, we are striving to reduce the usage of PRTR subject chemical substances (toluene, xylene)<sup>(\*)</sup>

<sup>\*</sup> Contained in antirust (varnish) and solvent used when producing motors.

### FY2011 target and result of reduction

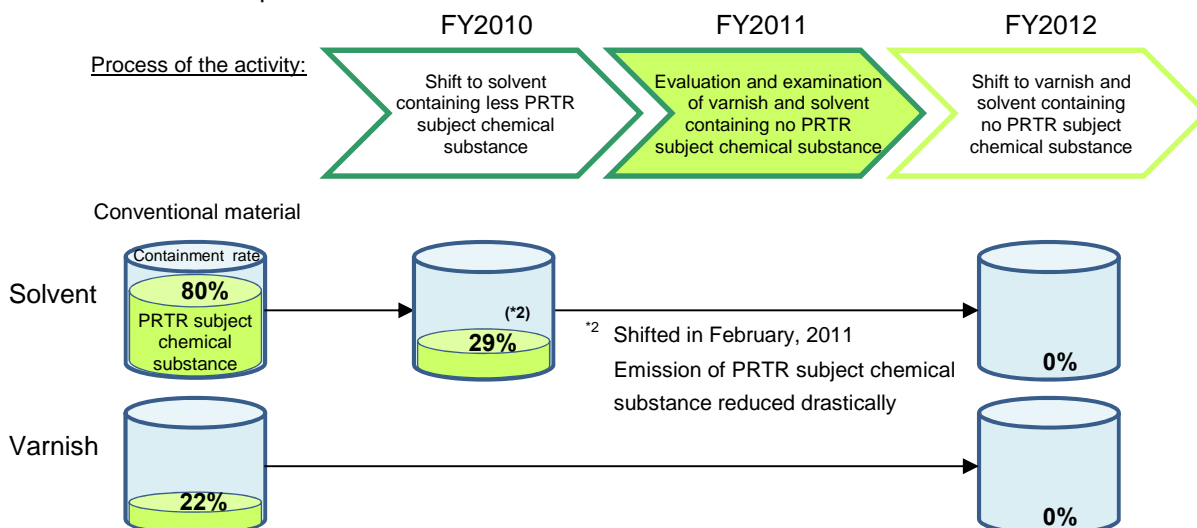
Indicator	Target	Result
Domestic & Overseas production bases : Compared to FY2005 in total amount	68%	→ 73.9%

### FY2011 Activities

#### 【Evaluation and examination of replacement material】

For the purpose of shifting to replacement material containing no PRTR subject chemical substance, we conducted product evaluation using the replacement material.

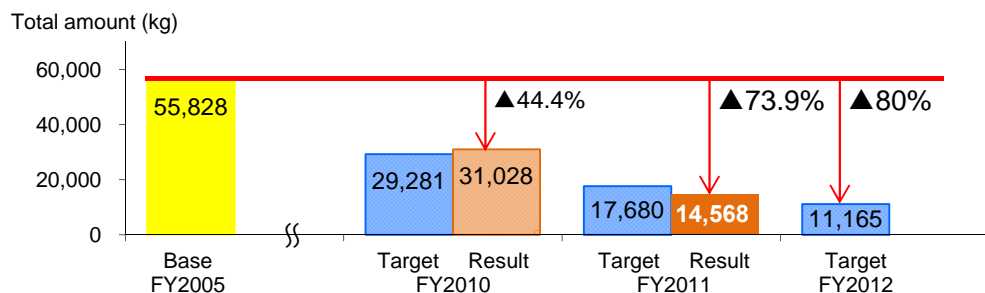
As we were able to foresee solutions to problems concerning quality and cost, we will implement the shift from the production in FY2012.



#### 【Measures against evaporation of solvent】

The Aomori Business Office improved the varnish application facility by expanding the hood of the facility in order to suppress the evaporation of solvent containing PRTR subject chemical substance. As a result, the amount of evaporation was suppressed and the emission of PRTR subject chemical substance was reduced.

As a result of the activities, we reduced the emission of PRTR subject chemical substance by 73.9% compared to FY2005.

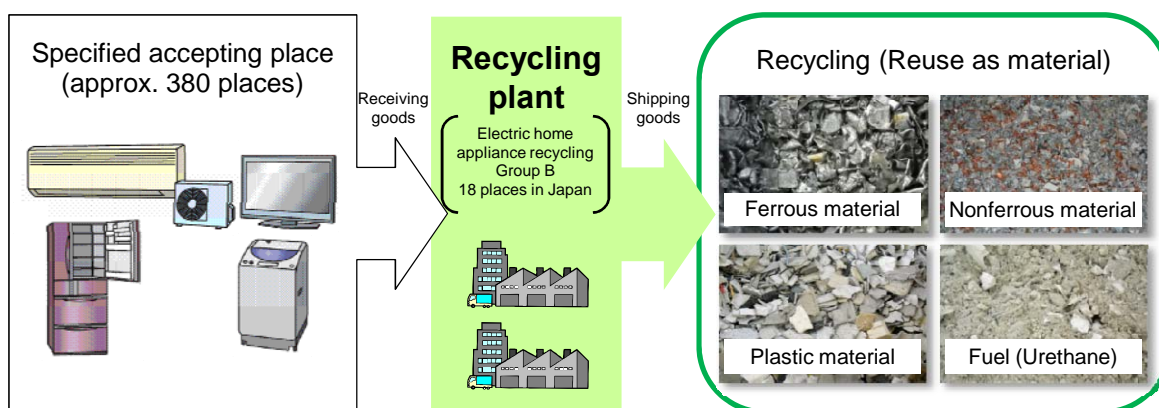


# Reduction of Environmental Burden within Our Business Activities

## Electric Home Appliance Recycling Activities

In accordance with the “Home Appliance Recycling Law” enforced in April, 2001, all the manufacturers are obliged to dispose used electric home appliances by way of recycling. (specified 4 items : air conditioners, televisions, refrigerators/freezers and washing machines/cloth driers). Our company is implementing the recycling of used electric home appliances at our subsidiary recycling plant “Fuji Ecocycle Ltd. (Hamamatsu, Shizuoka)”.

Furthermore, we are promoting the “closed recycling” of resources by recycling the PP material (polypropylene) collected by decomposition and disposition and reusing them in our products.



Disposition flow of used electric home appliances (specified 4 items)

### FY2011 Activities

#### 【Recycling results】

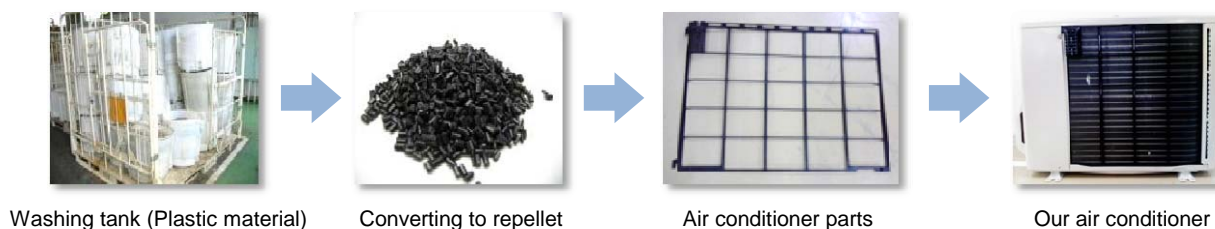
Based on the Home Appliance Recycling Law, we report our recycling results in our website <sup>(\*)</sup>. In FY2011, total quantity of disposal of our products for subject 4 items was 311,000 sets and total recycling weight was 13,126 tons.

<sup>\*</sup> Recycling results: <http://www.fujitsu-general.com/jp/corporate/ecc/recycle/recycle.html>

#### 【Closed recycling】

Fuji Ecocycle Ltd. is recycling PP materials recovered from the washing tank of used washing machines which are reused<sup>(\*)</sup> as the parts of our company’s air conditioners. In FY2011, we adopted a large-sized plastic crushing machine to start the crushing of large-size washing tanks internally, which had been outsourced. As a result, the shortening of lead time from recovery of PP materials to recycling and the improvement of transportation efficiency were realized.

<sup>\*</sup> As the recycled repellet materials are black or grey, we use them for internal parts of air conditioner which are not conspicuous externally.



Flow of closed recycling of resources



# Environmental Communication

## Regional Contribution Activities

As part of regional environmental protection activities, Fujitsu General Group is conducting “delivery lecture on energy saving” at elementary and junior high schools to enhance the understanding of the importance of energy saving using familiar household appliance such as the air conditioner as examples. Also, we are continually implementing cleaning and greening activities around the company offices.



Delivery lecture on energy conservation at school  
(Kawasaki Head Office)



Cleaning activity around the office  
(Fujitsu General Electronics Ltd.)



Greening activity around the office  
(Aomori Business Office)

## Natural Disaster Support Activities

### Donation for the Great Eastern Japan Earthquake

We are continually implementing the restoration support activities for the Great Eastern Japan Earthquake which occurred on March, 2011. Our activities include the donation for the support activity in the suffered area, free supply of disaster prevention wireless system needed at site areas for Rikuzen-Takada City, Iwate Prefecture, Ishinomaki City and Kesenuma City, Miyagi Prefecture, donation of energy-saving type air conditioners for the fire department of Ichinoseki City, Iwate Prefecture and also donation of electric carpets for the afflicted people who evacuated to Kanagawa Prefecture.

### Donation for big flooding in Thailand

We donated relief money for restoration to The Red Cross Society of Thailand through our manufacturing subsidiary Fujitsu General (Thailand) Co., Ltd. against the damage by the large scale flooding which occurred in various areas of Thailand.

At FG (Thailand), donation boxes were placed in the staff canteen soliciting donation from employees. By the goodwill donation with addition from FG (Thailand), we donated disaster support supplies such as rice, water, canned foods and medical products.



Participating in joint support activity  
(FG Thailand)

## Exhibition Activities

We exhibited our products at Fujitsu Group booth in the “Eco Products 2011”, Japan’s biggest environmental exhibition, held in December, 2011. We introduced “nocria Z” air conditioner which has industry’s top level environmental performance with our own technology and “PLAZION” deodorizing equipment with power consumption reduced by 25% as the products to support “day-to-day life” and appealed our environmental efforts through the products to visitors ranging from business people to family people.



Whole view of  
Fujitsu Group booth



Appealed by demonstration using  
actual equipment

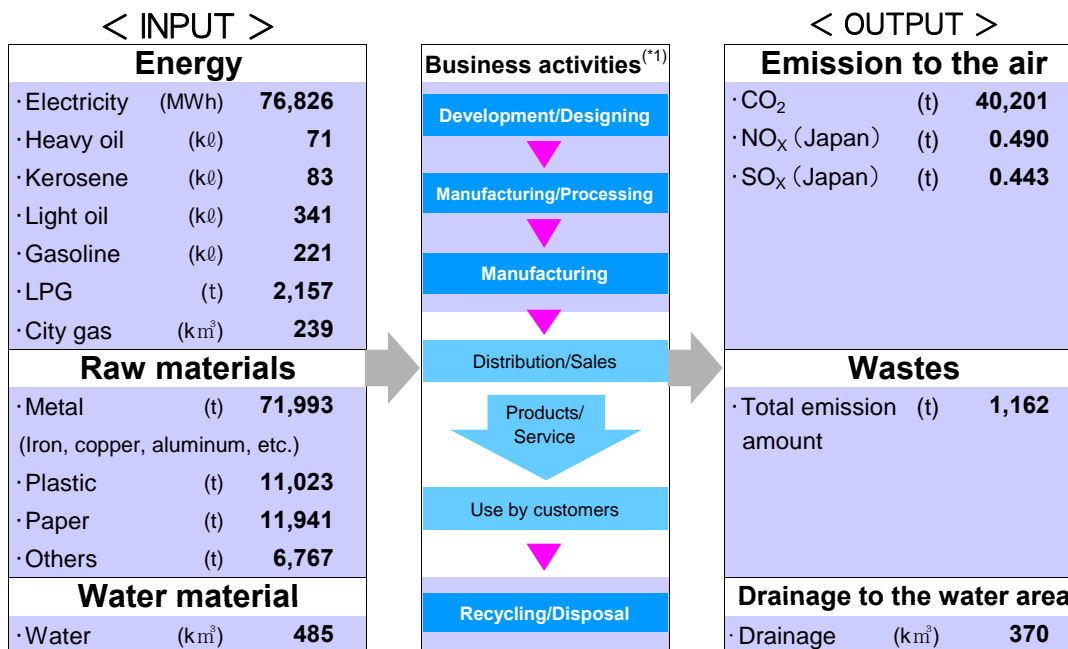


Children listening keenly  
to the presentation

# Business Activities and Environmental Burden

Fujitsu General Group is working on the enhancement of energy consumption efficiency and resource consumption efficiency in all business domains.

The amount of resources consumed (INPUT) and the amount of environmental burden emitted (OUTPUT) in FY2011 were as below.



\*1 The shaded parts in the business activities are included in the resource amount and environmental burden amount.

Calculation method:

## < INPUT >

Energy : Consumption of electricity and fuel in factories and business offices

Raw materials : Input to the products

Water material : Amount of water used in factories and business offices

## < OUTPUT >

CO<sub>2</sub> : CO<sub>2</sub> emission generated by energy consumption in factories and business offices (Energy consumption x CO<sub>2</sub> conversion factor)

NO<sub>x</sub>, SO<sub>x</sub> : Calculated based on the result of measuring the substance density in the gas emitted from the exhaust vents of factories and business offices.

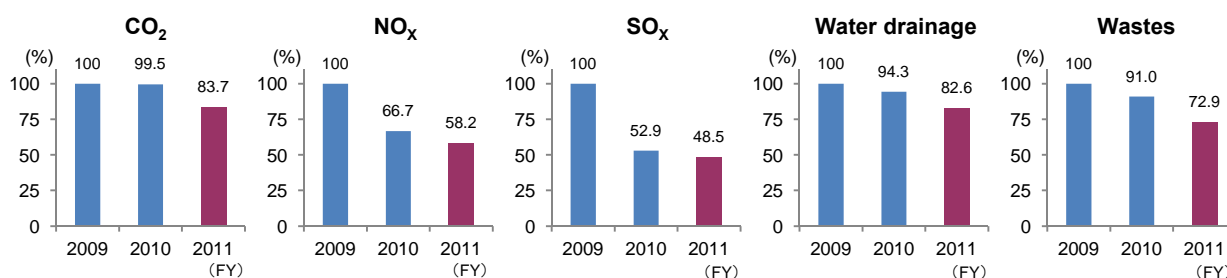
Wastes : Amount of wastes generated in factories and business offices

Water drainage : Amount of water drained into sewage system or rivers from factories and business offices

## Status of improvement of environmental burden

As a result of comparing the environmental burden amounts from FY2009 to 2011 in the basic unit based on the result of business activities (consolidated sales), the improvement was confirmed on all the items.<sup>(\*)</sup>

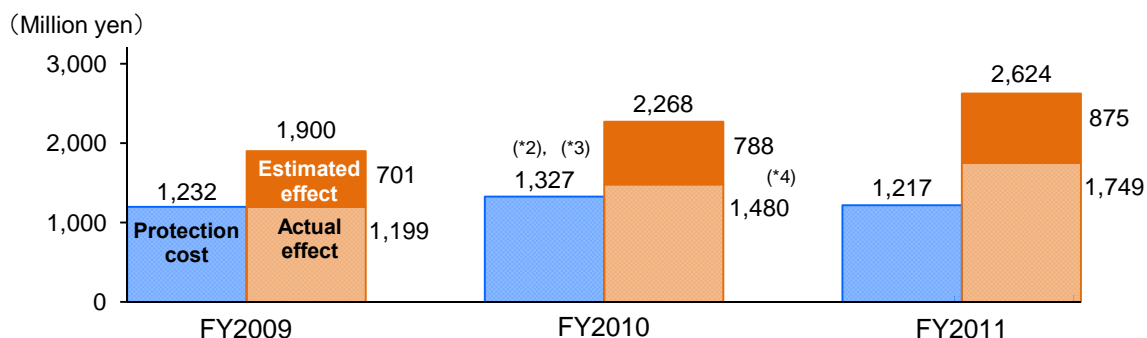
\*2 Compared with consolidated sales basic unit of FY2009 as 100



## Environmental Accounting

The environmental protection cost in FY2011 was 1,217 million yen (110 million yen down from the previous year) and the economic effect was 2,624 million yen (356 million yen up) and the capital investment<sup>(\*)</sup> was 94 million yen. Main factor for cost decrease was the suppression of personnel expense in the electric home appliance recycling business by the decrease of incoming goods of used electric appliances due to the termination of Eco-point system and the transition to digital terrestrial TV broadcasting. The increase of economic effect was mainly due to the resource saving by the improvement of designing.

### Cost and effect



\*1 The investment amount was calculated, targeting the equipment aiming at environmental protection, by multiplying pro rata set according to the degree of "environment protection" out of the purpose of purchase of relevant equipment.

\*2 The industrial waste disposal cost and water, lighting and heating expenses were added to FY2010 environmental protection cost.

\*3 Corrected the mistake of the "cost (pollution prevention) in the business area" of FY2010 environmental protection cost. (169 million yen → 26 million yen)

\*4 Corrected the "sales amount of valued articles by recycling" of FY2010 actual effect. (1,107 million yen → 1,116 million yen)

### Environmental protection cost (FY2011)<sup>(\*)</sup>

(million yen)

Item	Main contents	Investment amount	Cost amount <sup>(*)</sup>
Costs in business area		57	812
Pollution prevention	Air/water pollution protection, etc.	14	28
Environmental protection	Global warming prevention/Ozone layer depletion prevention	25	62
Resources recycling	Resources effective use, industrial waste disposal, etc.	18	722
Production upstream/downstream activity cost	Recycling of used products, etc.	0	46
Management activity	EMS, environmental education, etc.	0	110
R&D	Development of environmentally-friendly products/technologies	37	248
Environmental Protection	Recovery of land pollution	0	1
Total		94	1,217

\*5 Environmental protection cost is calculated including various expenses, personnel cost and depreciation cost of capital investment relating to environmental activities.

\*6 Depreciation cost is calculated by 5-year fixed amount depreciation method and included in the cost amount.

### Economic effects relating to environmental protection (FY2011)

(million yen)

Item	Main contents	Amount
Estimated effect	Sales contribution amount, etc. <sup>(*)</sup> in environmentally-friendly designing	875
Actual effect	Sale of valued articles by recycling	1,749
Revenue	Sale of valued articles by recycling	942
Cost saving	Energy cost, resource saving, etc.	807
Total		2,624

\*7 The value calculated by multiplying the sales amount of environmentally-friendly products by "research/designing ratio", "environmental design contribution rate" (both our company's standard).



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**FUJITSU GENERAL LIMITED**  
ENVIRONMENTAL MANAGEMENT DIVISION  
1116, Suenaga, Takatsu-ku, Kawasaki  
213-8502, Japan  
<http://www.fujitsu-general.com/global/corporate/eco/index.html>

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