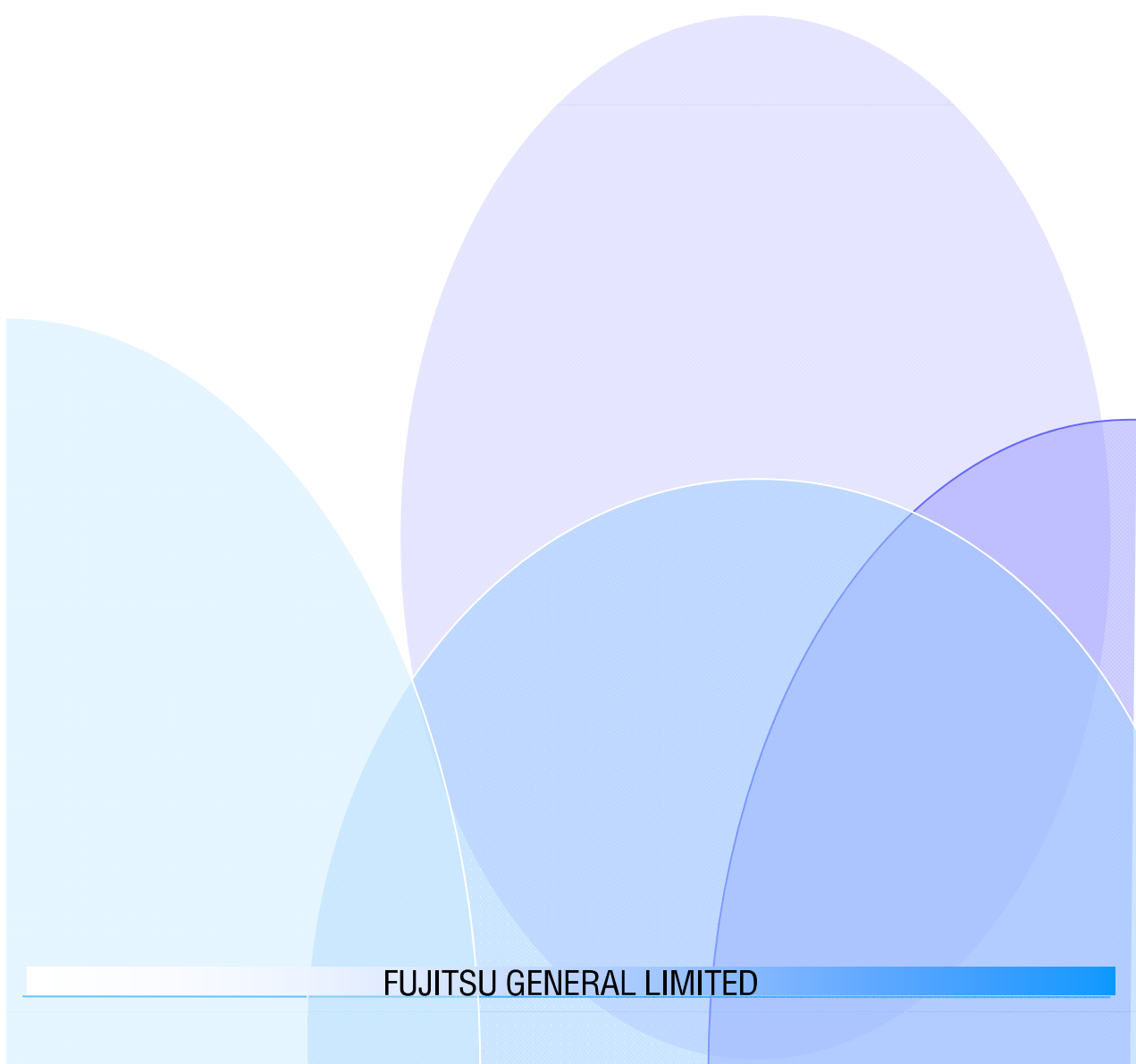
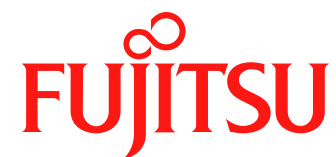


**FUJITSU GENERAL GROUP
ENVIRONMENTAL ACTIVITIES
2012 ACHIEVEMENTS**



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, 2013)
 Net sales (consolidated): 209,167 million yen (FY2012)
 Employees (consolidated): 5,606 (as of March 31, 2013)
 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:

FY2012 (April 1, 2012 – March 31, 2013),
 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 2012" by The Ministry of Environment
 • "Environmental Accounting Guideline 2005" by The Ministry of Environment

Message from Management

Recognizing that the activities for global environmental protection are the key management issue of Fujitsu General Group, we will contribute to the creation of a comfortable and safe society and the sustainable development of society by bringing about a prosperous future that fulfils the dreams of people throughout the world.

To realize this aim, we will contribute to “the reduction of environmental burden for customers and society” and promote “the reduction of environmental burden for ourselves” in our business activities by providing the environmentally-friendly products and services colligating the technology and imagination of Fujitsu General Group in all our business domains including air conditioners, information & communication system and electronic devices.

As concrete activities, we are promoting environmental activities by establishing the Environmental Protection Program every three years. FY2012 is the final year for the Environmental Protection Program Stage VI and we have achieved the activity targets in all 15 themes for global environmental protection. In addition, we enhanced the environmental communication in the local areas by conducting the “delivery lecture on energy saving” at local primary schools, implementing cleaning and greening activities around the company office and inviting local people to the used home electric appliance recycling plant.

Based on the activity results of the Stage VI, we started the “Environmental Protection Program Stage VII (FY2013 – 2015) to work on the higher targets and further promote the environmental activities. In the Environmental Protection Program Stage VII, we will tackle the following 5 key issues to continue to pursue “the reduction of environmental burden for customers and society” and “the reduction of environmental burden for ourselves”.

- 1) Development of environmental protection products and technologies and expansion of supply to the market
- 2) Reduction of CO₂ emission
- 3) Suppression of emission of wastes and specific chemical substances
- 4) Level-up and operation efficiency improvement of Environmental Management System
- 5) Concrete activities for biodiversity conservation

Setting total 20 themes for these key issues, we will vigorously promote the environment activities by company-wide efforts.

In this report, we introduce the results of the Environmental Protection Program Stage VI and publicize the contents of the Environmental Protection Program Stage VII. we hope that you will understand our environmental activities through this report and give us your candid comments and advices for us to further enhance the environmental activities.

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

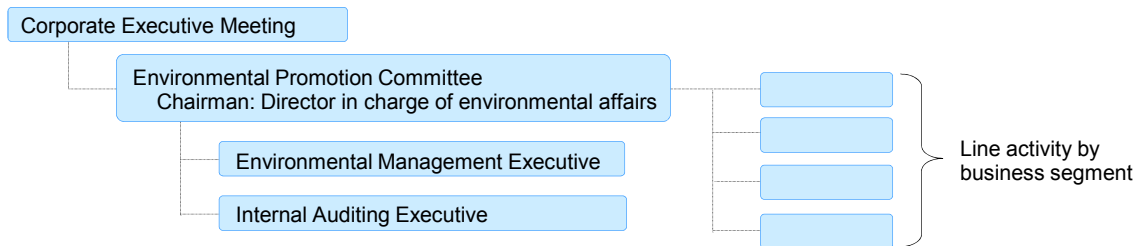
- Contribute to the reduction of environmental burden for our customers and society and the enhancement of environmental efficiency by pursuing excellent technology and providing comfortable and safe products and services.
- Reduce environmental burden throughout every stage of the product life cycle.
- 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 activities, Fujitsu General Group is promoting the 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) have acquired integrated certification. In 2012, overseas sales bases (11 companies) acquired the certification, and all the bases of Fujitsu General Group have completed the acquisition of the certification. We aim to further strengthen the company-wide environmental activity.

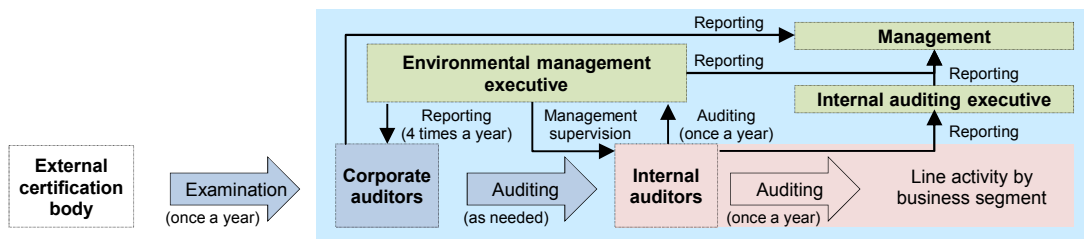
■ Environmental Promotion Framework

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.



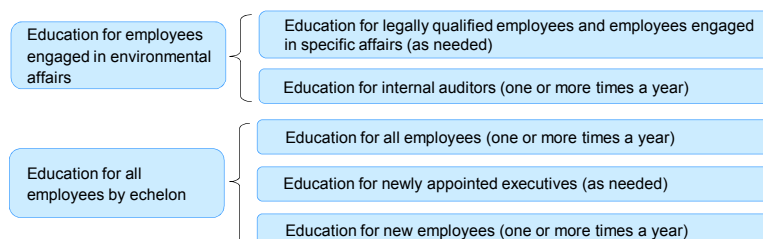
■ Environmental Auditing Framework

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 FY2012, 89 cases including 18 cases of minor nonconformity in the operation management and document management were pointed out. Also, In the examination by external certification body, 12 cases including 3 cases of nonconformity were pointed out. For all the cases, correction measures were already taken and the status of correction will be confirmed in the internal auditing of FY2013.



■ 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

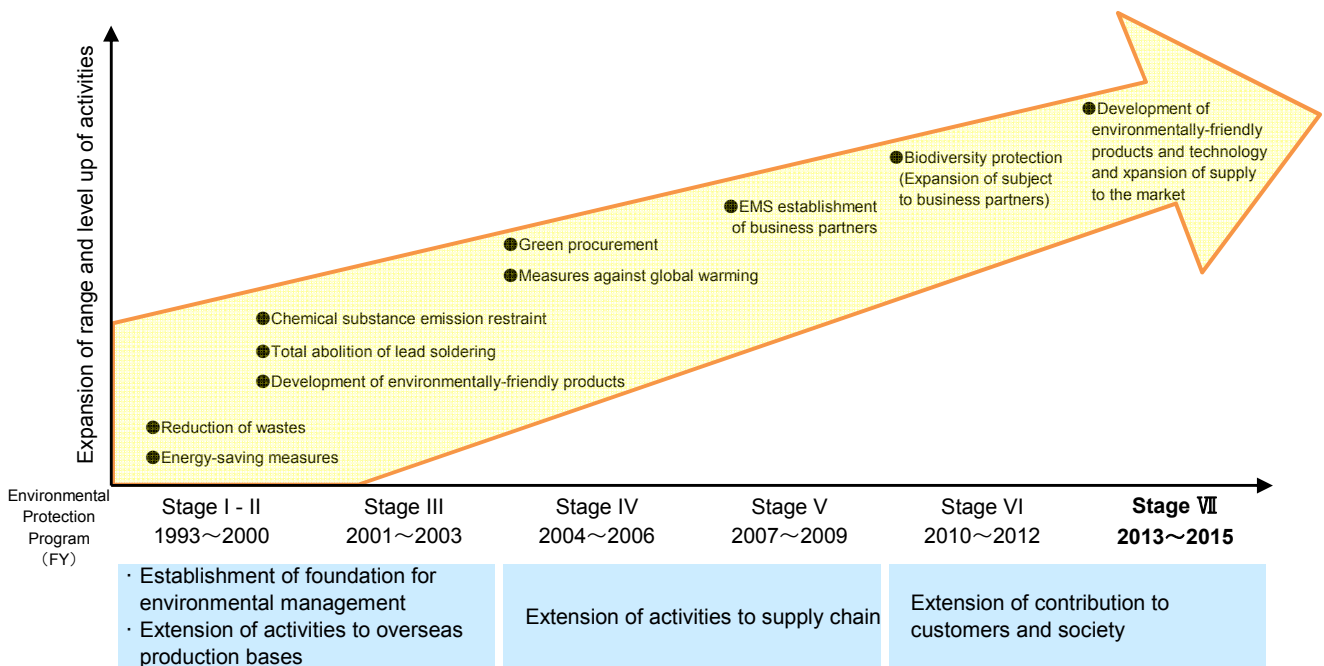
Recognizing that the activity for global environment protection is one of the important management themes, Fujitsu General Group is continually promoting the environmental activities according to the plan based on the “FUJITSU GENERAL Way” and “Fujitsu General Group Environmental Policy” for the reduction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



History of Environmental Protection Program

As the plan to materialize the basic philosophy and conduct principles of the “Fujitsu General Group Environmental Policy”, we are establishing the “Environmental Protection Program” setting key issues and numerical targets every three years.

From the Stage I to Stage III (FY1993 – 2003), we worked on the reduction of environmental burden for ourselves with the aim to establish the foundation of environmental management. In the Stage IV to Stage V (FY2004 – 2009), we extended the activity to the business partners and tackled the reduction of environmental burden in the supply chain. And from the Stage VI (FY2010 – 2012), we are promoting the activity aiming at the contribution to the reduction of environmental burden for customers and society by supplying the environmentally-friendly products and services.



History of Environmental Protection Program

■ Environmental Protection Program Stage VI (Targets and Results)

The targets and results of the Environmental Protection Program Stage VI were as follows. In FY2012, the final year, we revised upward in two themes and as a result, achieved the targets in 13 themes out of 15 themes. Regarding the unachieved two themes, we will strengthen the activity in the Environmental Protection Program Stage VII (FY2013 – 2015).

	Environmental Protection Program Stage VI (End of FY2012)	FY2012			Related pages
		Targets	Results	Status	
Reduction of environmental burden for customers and society	1. Development of environmentally-friendly products and technologies				
	1) Develop all products as “Green Products” Make all newly developed products in and after FY2010 “Green Products” ^{(*)2}	100 %	100 %	○	P6
	2) Development ratio of “Super Green Products” Make more than 30% of development models “Super Green Products” for each year ^{(*)2}	30 %	31.4 %	○	
3) Development of environmentally-friendly technology	100 %	100 %	○		
Reduction of environmental burden within our business activities	2. Reduction of greenhouse gas emission				
	Reduction of CO₂ emission <Domestic business offices> Reduce energy consumption CO ₂ emission by 35% in total amount compared to FY1990 by the end of FY2012 ^{(*)3}	35 %	35.7 %	○	P8
	<Overseas production bases> Reduce energy consumption CO ₂ emission by 30% in production output basic unit compared to FY2006 by the end of FY2012 ^{(*)3}	30 %	25.7 %	△	
	<Domestic distribution> Reduce energy consumption CO ₂ emission by 40% in total amount compared to FY2006 by the end of FY2012.	40 %	40.8 %	○	
	3. Extension of environmental activities to overseas sales subsidiaries and parts/material suppliers				
	1) Acquisition of ISO14000 at overseas sales subsidiaries Acquire ISO14000 globally at domestic and overseas production bases and sales bases	Level III ^{(*)4} Integration of global organization	Level III establishment Completed integration of global organization	○	P9
	2) EMS establishment at all overseas parts/material suppliers (Higher than Level II : 80%)	Higher than Level II 80 %	Higher than Level II 80 %	○	P11
	4. Suppression of emission of wastes and PRTR subject chemical substances				
	1) Reduction of wastes <Domestic business offices> Reduce emission of wastes by 30% in total amount compared to FY2009 by the end of FY2012	30 %	31.0 %	○	P12
	<Overseas production bases> Reduce emission of wastes by 50% in production output basic unit compared to FY2009 by the end of FY2012	50 %	46.0 %	△	
	2) Reduction of PRTR subject chemical substance emission Reduce PRTR subject chemical substance emission by 80% in total amount compared to FY2005 by the end of FY2012.	80 %	95.4 %	○	P13
	5. Activity for biodiversity protection				
	· Establishment of action plan and guideline for biodiversity protection · Implementation of biodiversity protection activity at each business office and area	Implemented biodiversity protection activity	Establishment of action plan and guideline Started protection activity	○	P14

*1 : ○: Achieved △: Achieved the target for final year set at the time of establishing the program but not achieved the target revised upward during the period.

*2 : Targeting our products newly developed within target year

*3 : Reviewed in May, 2012 to achieve higher goals than original plan aiming at further level up of activities

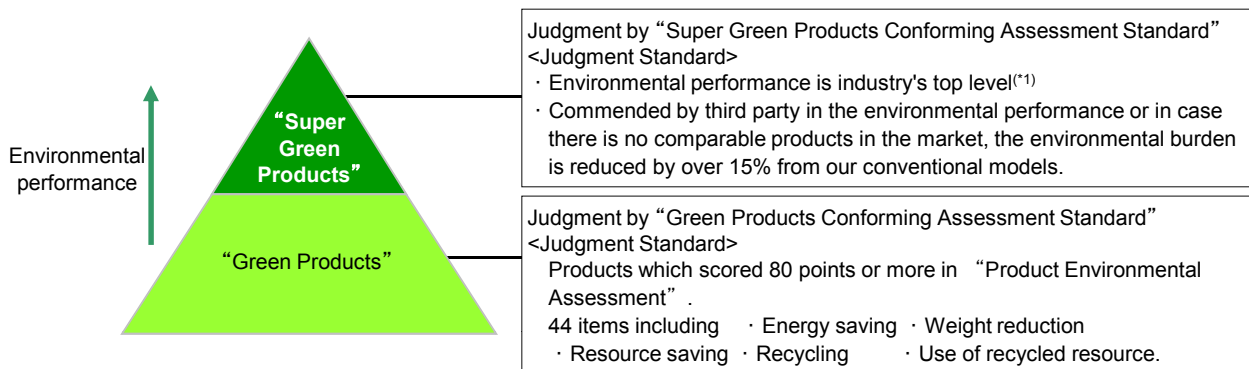
*4 : Expressing the level in the Fujitsu General Group own EMS.
Level III: Acquisition of third party certification such as ISO14000.

<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”.

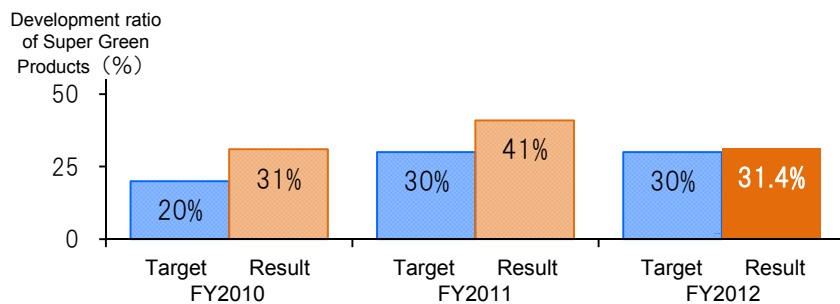
Specifically, at the planning and development stage of each new development item, development targets are set according to the "Production Environment Assessment" which classifies environmental performance in 44 items. Then, after assessing whether the targets are achieved at the stage of designing and 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 ^(*) and/or products that are commended for its environmental performance by a third party are recognized as “Super Green Products”.



*1 : Based on “Criteria on use of ‘No.1’ on products” by Home Electric Appliances Fair Trade Conference.
Industry's top level: No.1, equivalent to No.1 or very small difference from No.1.

Activities in FY2012

In FY2012, all the newly developed products were made as “Green Products”. Furthermore, out of the “Green Products”, 31.4% 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"> · Development of “DUAL BLASTER” which creates comfortable air current of room temperature. · Development of “New absent eco” technology to detect absence of human by sensor and control operation.
Deodorizers (PLAZION)	<ul style="list-style-type: none"> · Realizing downsizing and light weight^(*) while maintaining the same deodorizing performance. <p>*2 : Comparison with the model in front of us</p>
Information & communication system	<ul style="list-style-type: none"> · Development of high efficient power amplifier for digital wireless equipment. (Downsizing and resource saving)
Automotive camera	<ul style="list-style-type: none"> · Development of image processing LSI by advanced semiconductor processing. (micro technology) (Downsizing and resource saving)

■ Introduction of Main “Super Green Products”

Air conditioners for domestic market

Energy saving

Model : AS-X28C-W
Reason for recognition : Industry’s top level energy seasonal power consumption.
Product features : Can get cool air even at moderate temperature setting.



Energy saving

Model : AS-Z22CW, AS-Z25CW
Reason for recognition : Industry’s top level energy consumption efficiency.
Product features : No.1 heating capacity and both comfort and eco in high level.



Air conditioners for Europe

Energy saving

Model : AJYA72GALH, AJYA90GALH, AJY126GALH, AJY144GALH
Reason for recognition : Industry’s top level energy consumption efficiency Product features.
Product features : 1) Adopting large volume inverter compressor, new pipe designing and refrigerant balance control.
2) Inheriting original 4 direction air intake designing with minimum intake loss even in multiple installation.



Plazma ion UV humidifying deodorizer (PLAZION)

Resource saving

Model : DAS-303B
Reason for recognition : Achieved resource saving by 16% compared^(*) to our conventional products.
Product features : Smart power saving by eco operation mode and improved efficiency by triple deodorizing.



*1 : Compared to 2011 model (DAS-303A) having equal functions

In-vehicle rear-view camera

Resource saving

Model : CJ-C49N01Z, CJ-C41N01F
Reason for recognition : Product volume reduced by 49% compared to our conventional products.^(*)
Product features : High performance and high function realized by our own image processing technology.



*2 : Compared to 2010 model (CJ-025NB01K) having equal functions

<Reduction of Environmental Burden within Our Business Activities>

■Reduction of Energy Consumption CO₂ Emission

Toward the reduction of energy consumption CO₂ 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.

FY2012 targets and results of reduction

	【Indicator】	【Targets】	【Results】
Domestic business offices	: Compared with FY1990 in total amount	35%	→ 35.7%
Overseas production bases	: Compared with FY2006 in production output basic unit	30%	→ 25.7%
Domestic products logistics	: Compared with FY2006 in total amount	40%	→ 40.8%

Activities in FY2012

【Domestic business offices】

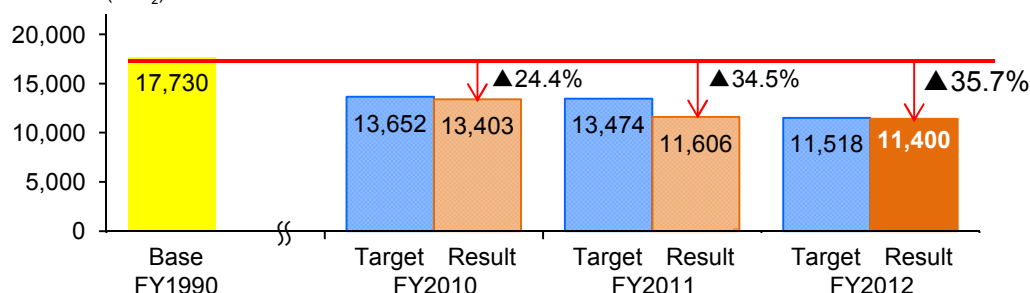
We implemented continually meticulous power saving measures corresponding to the environment of workplace at offices and factories by grasping the daily power usage at all the business bases and practicing PDCA cycle. Also, as the electricity usage of evaluation facility was predicted to increase along with the increase of development models, we implemented company-wide power saving activities reviewing the target of total reduction at all domestic business offices.

As a result, we reduced CO₂ emission by 35.7% 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 using electric fans together.

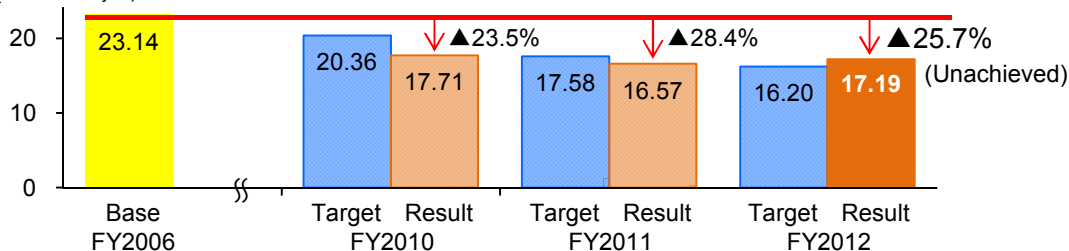
Total amount (t-CO₂)



【Overseas production bases】

The electricity usage increased due to the increased operation of evaluation facility along with the strengthening of development setup at the overseas production bases. As countermeasures, we implemented the improvement of energy consumption efficiency by high efficient use of infrastructure such as air conditioning and lighting, changing to inverter type production facility and continuously renovating the production. But as a result, CO₂ emission was reduced only by 25.7% compared to FY2006 in production output basic unit.

Production output basic unit (t-CO₂/100 million yen)



CO₂ emission calculation base:

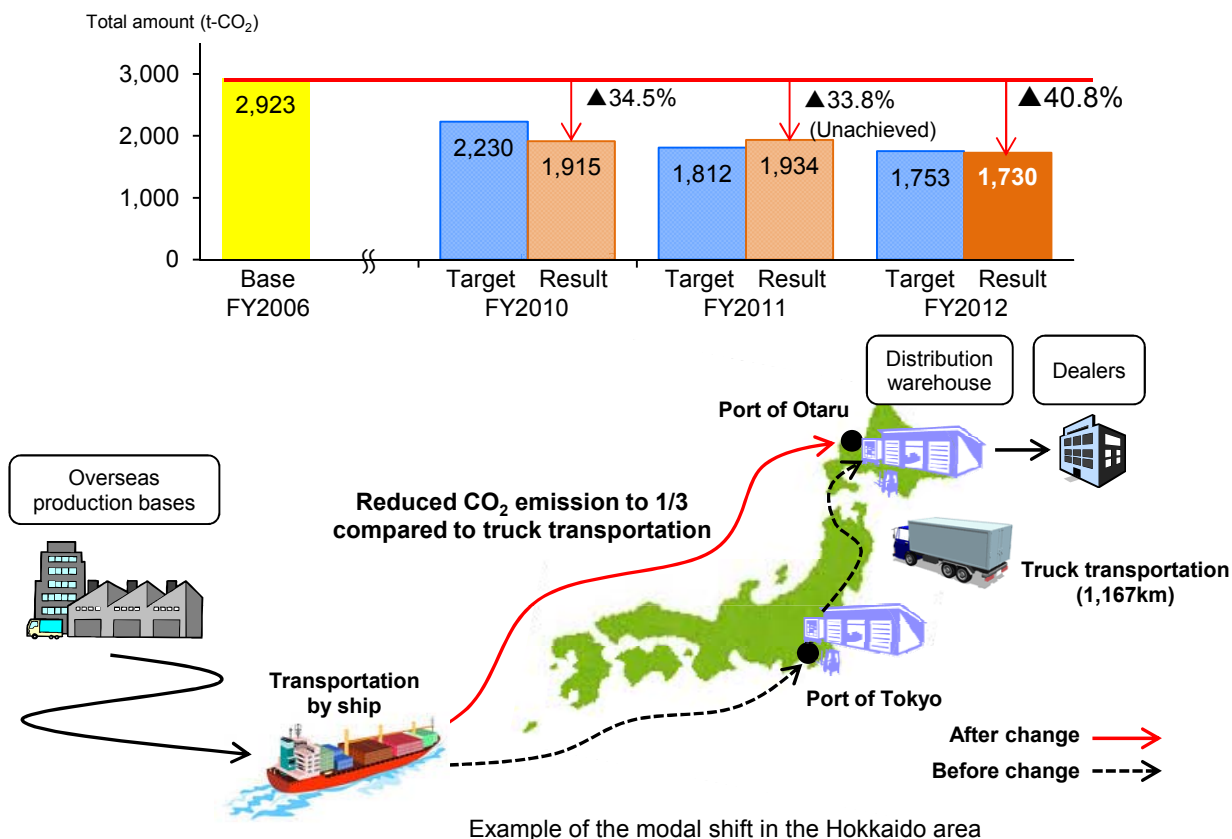
Electricity: Japan 「0.407 t-CO₂/MWh」 Overseas factories 「0.410 t-CO₂/MWh」

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. From July 2012, we implemented modal shift to change the product transportation method to Hokkaido area from truck transportation from Kanto area to sea shipment to the port of Otaru and reduced CO₂ emission by shortening the distance of land transportation.

As a result, CO₂ emission was reduced by 40.8% in total amount compared to FY2006.



■ Acquisition of ISO14001 at overseas sales subsidiaries

To promote the activities to improve continual environmental performance based on the “Fujitsu General Group Environmental Policy” along with the strengthening of observance of overseas environment-related laws which are becoming increasingly strict year by year, we worked on the establishment of setup in stages setting the goal of acquiring ISO14001 at overseas sales subsidiaries in the Environmental Protection Program Stage VI.

Activities in FY2012

ISO executive offices of Kawasaki Head Office and overseas sales subsidiaries promoted the establishment of framework in mutual coordination checking the activities at local sites. In March, 2013, we had the first external screening by Japan Audit and Certification Organization for Environment and Quality (JACO) as our overseas sales subsidiaries.

As the result, there was no indication of nonconformity and the overseas sales subsidiaries (11 companies) completed the acquisition of integrated certification with our total organization except overseas production bases^(*). With regard to the 4 cases of room for improvement pointed out by the external screening, we will confirm the situation at the internal auditing in FY2013.



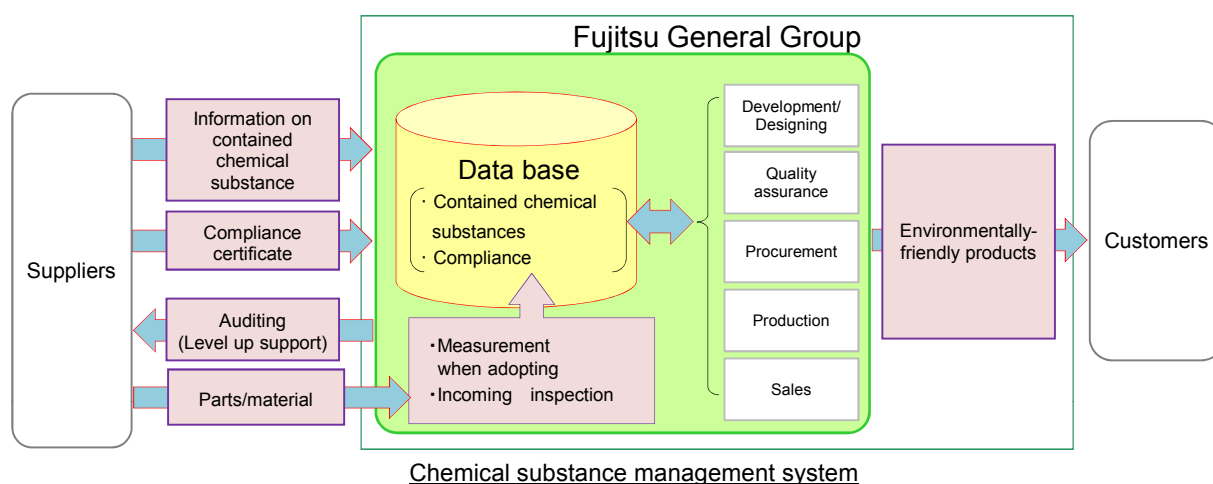
ISO14001 Certification

*1 : Overseas production bases have acquired individual certification at each area.

<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.



Activities in FY2012

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^{(*)1} together with on-site examinations.

【Enhancement of efficiency of survey activity】

In order to cope with the substance of very high concern (SVHC)^{(*)2} in the European REACH Regulations^{(*)3}, we are asking our suppliers to cooperate to survey the chemical substances contained in the supplied parts/materials. In FY2012, we changed the survey method by overseas suppliers to the same “AIS Tool^{(*)4}” as the domestic suppliers. We strived to collect the information of chemical substance contained in the parts/materials by calling on the suppliers to participate positively in the briefing of “AIS Tool” held by JAMP^{(*)5} and our company's own briefing.

*1 : Based on the “Chemical Substance Management Guideline” published by Joint Article Management Promotion-consortium (JAMP) and Japan Green Procurement Survey Standardization Initiative (JGPSS).

*2 : Authorization subject candidate substances for which registration is required in the European REACH Regulations.

*3 : Chemical substance regulations in European Union.

*4 : Survey tool recommended by Joint Article Management Promotion-consortium (JAMP).

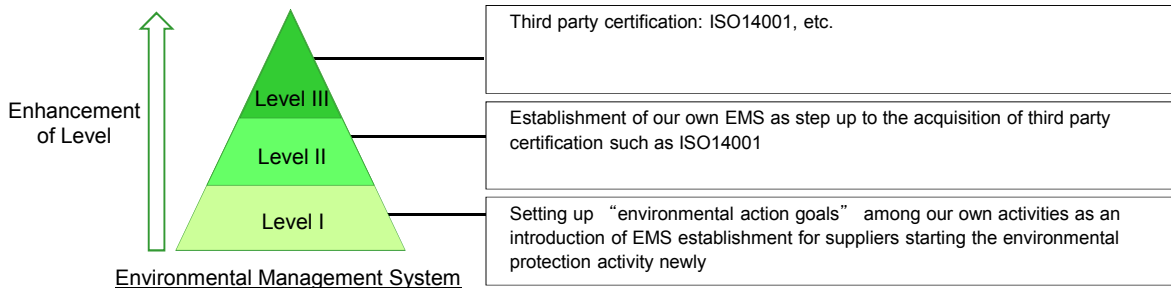
*5 : Joint Article Management Promotion-consortium (JAMP).



Briefing of AIS survey tool
(at Bangkok in October 2012)

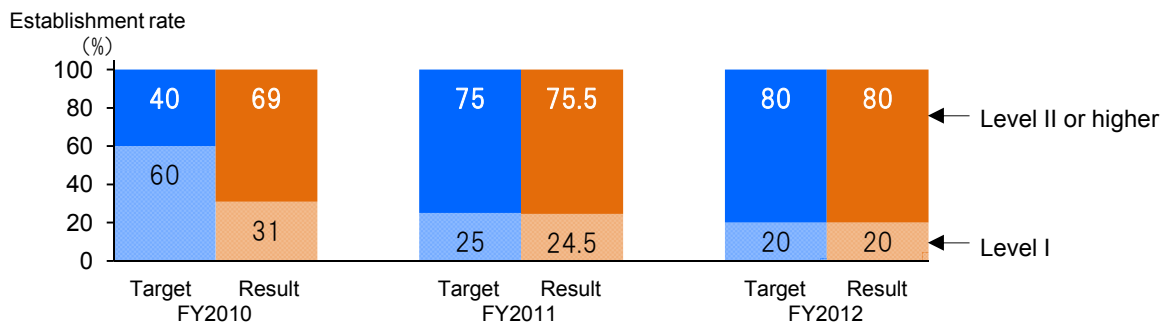
■ EMS Establishment at all Overseas Parts & Material Suppliers

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.



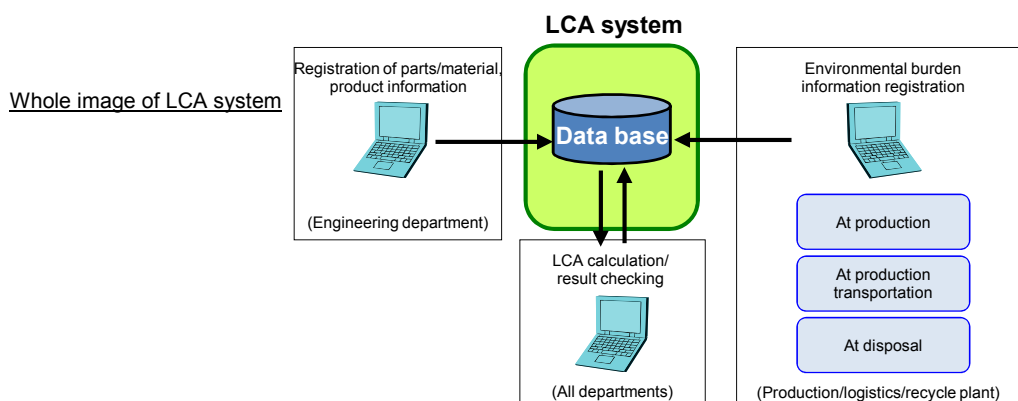
Activities in FY2012

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.



Activities in FY2012

In FY2011, the activity was limited to the evaluation of representative models of each product, but in FY2012, we started to implement LCA for all the products developed newly in whole company including the products developed at overseas bases. In order to comply with the law^(*) to be enforced in the future, we started concrete examination aiming to establish the internal system to extend the environmental burden elements which have been limited to CO₂ to chemical substances and resource consumption.

*1 : The law requiring multiple environmental impact evaluations in the product lifecycle under examination in Europe.

<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.

FY2012 targets and results of reduction

	【Indicator】	【Targets】	【Results】
Domestic business offices	: Compared to FY2009 in total amount	30%	→ 31.0%
Overseas production bases	: Compared to FY2009 in production output basic unit	50%	→ 46.0%

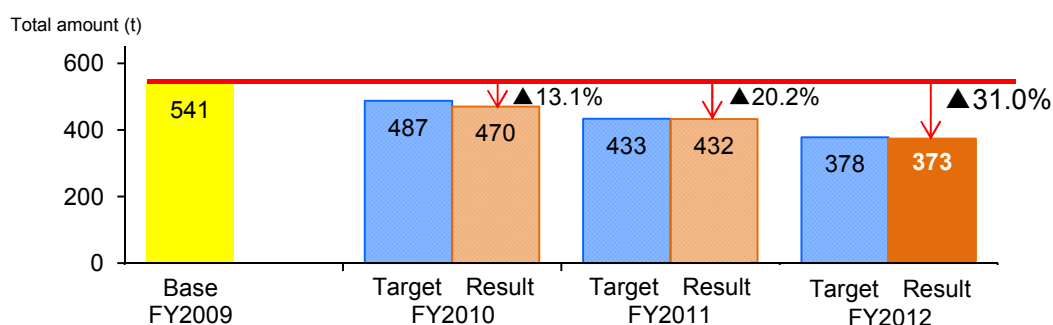
Activities in FY2012

【Domestic business offices】

At the sales and service bases, we promoted the unification of the sorting rules of wastes and manual which started last year and strengthened the activity to reuse part of metallic wastes which became unnecessary after replacement of parts as resource.

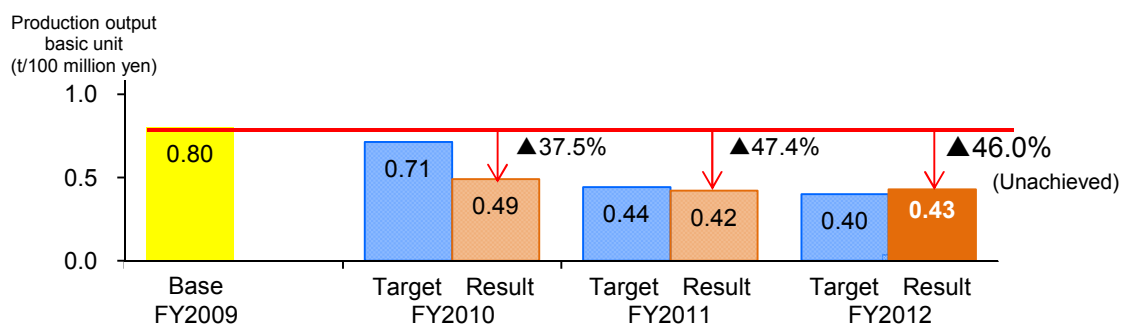
At the production bases, we are working on the reduction of wastes and effective use of resources and dealing with the wastes generated in the business activities with the motto of “Resources if sorted, Trash if mixed”. Also, we restrained the generation of wastes by changing the parts/materials supplied from suppliers to the reusable packing materials.

By these activities, we reduced the emission of wastes by 31.0% in total amount compared to FY2009.



【Overseas production bases】

For the reduction of the emission of wastes, we strongly promoted the activity “not to generate” the wastes. As an example of activity, at the production base in Shanghai, we restrained the generation of wastes by shifting the packing material for the parts/materials from cardboards to plastic returnable boxes which can be used repeatedly. Also, at the office of each production base, the thoroughgoing sorting and paperless activity was implemented, but the reduction of emission of wastes stood at only 46.0% less 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 emission of PRTR subject chemical substances^(*).

*1 : PRTR (Pollutant Release and Transfer Resister: Law relating to the promotion of comprehension and management of emission of specified chemical substances to the environment)

Toluene, xylene contained in antirust (varnish) and solvent used when producing motors.

FY2012 target and result of reduction

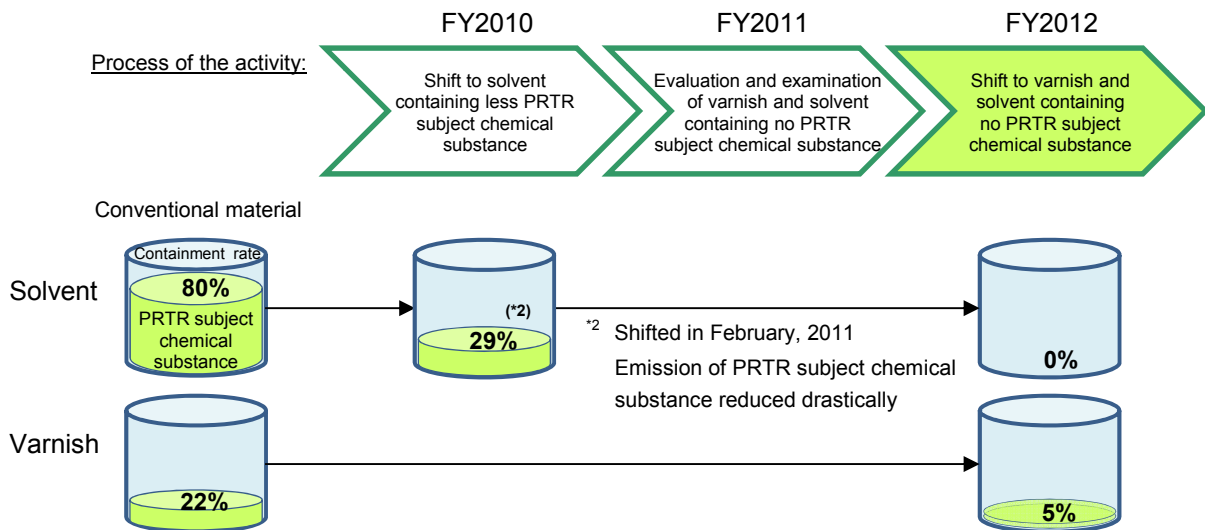
	【Indicator】	【Target】	【Result】
Domestic & Overseas production bases	: Compared to FY2005 in total amount	80%	→ 95.4%

Activities in FY2012

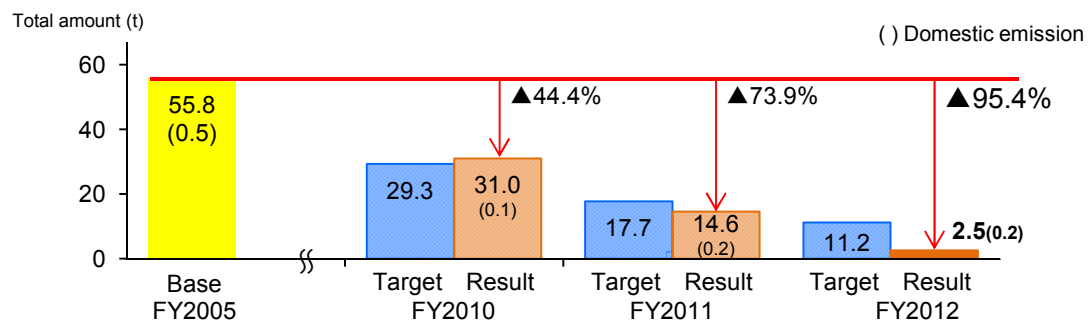
【Evaluation and examination of replacement material】

For the purpose of shifting to replacement material containing no PRTR subject chemical substance, we implemented the product evaluation using the replacement material. As we became certain about the shift in terms of quality and cost which have been problem so far, we implemented the shift from the production in FY2012 and substantially restrained the emission of PRTR subject chemical substance.

As a result, we reduced the emission of PRTR subject chemical substance by 95.4% in total amount compared to FY2005.



As PRTR subject chemical substance partly contained in the hardening agent contained in Varnish is technically difficult to be substituted, we will continue to restrain the emission in the production process.



<Reduction of Environmental Burden within Our Business Activities>

■ Biodiversity Conservation

In June, 2012, we revised the “Fujitsu General Group Environmental Policy” and clarified the policy for biodiversity conservation activities. Based on this, we established the “Fujitsu General Group Biodiversity Action Principles” and are promoting the activities to contribute to the biodiversity conservation and the sustainable use of natural resources for customers and whole society as well as practicing the biodiversity conservation and the sustainable use in our own business activities.

Activities in FY2012

【Conservation activities of endemic species living in the region】

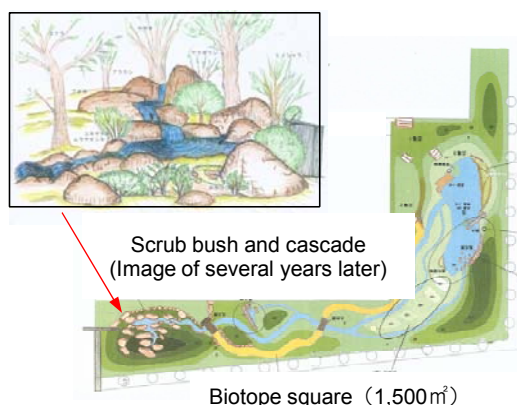
Based on the concept of activities of the “Fujitsu General Group Biodiversity Action Principles”, we established “Biotope^(*)” in the premises of Hamamatsu Business Office. As an activity corresponding to the characteristics of the region, we started this biotope under the cooperation of local university, environmental consultant and forest cooperative of the region.

For example, we transplanted 40 kinds of trees which have been growing in the Kiriya district of the surrounding area and, in the pond, released “Tanakia lanceolate (temperate freshwater fish)” and “Pronoduloria japonesis (pine cone shellfish)”, the only laying mother shellfish of the “Tanakia lanceolate”, which are living in the Miyakoda River and designated as IA category of endangered species in the Red Data Book of Shizuoka Prefecture. In addition, we released “larvae of Japanese fireflies” which were captured and cultivated in the Miyakoda River.

In the biotope, we will build up the habitat in a natural environment in the next several years envisioning the future image of the green space with brooks of sand filter, water holes and artificial hills so that the creatures living there can use the company’s green space as base point and relay point.

Also, in the premises of the office, a home electric appliance recycling plant of our group company Fuji Eco Cycle Co., Ltd. is operating and about 1,000 people visit the plant every year.

Taking the opportunity of establishing this biotope, we will further strive to have the necessity of biodiversity conservation and the importance of recycling for forming a recycling-orientated society understood more deeply.



Tanakia lanceolate
(10cm – 13cm in length)



Pine cone shellfish
(Shell is about 6cm.
Tanakia lanceolate
laying in this shell)

*1 : Biotope is a geographical minimum unit of habitat with characteristics clearly distinct from surrounding area and a space where habitat of creatures is artificially restored in a natural environment as much as possible. It is a scientific term combining the words “BIO (creatures/live)” and “TOPE (space/place)”

【Green space conservation activities】

We participated in the “Tokyo Greenship Action”, green space conservation activity sponsored by Metropolis of Tokyo, and the joint activity of Kawasaki City and Fujitsu Limited for regenerating “Kuriki Sannoyama Special Greenery Conservation Area” where devastated scrub bushes are growing.



Cutting bamboo leaves and grass
(Higashi Toyoda Greenery
Conservation Area: July, 2012)

Electric Home Appliance Recycling Activities

The “Electric Home Appliance Recycling Law” was enforced in April, 2001, and as an obligation of manufacturer, our company has been implementing the recycling of the used electric home appliances such as air conditioners, televisions (CRT and flat type), refrigerators, freezers, washing machines, clothe dryers) at our subsidiary recycling plant “Fuji Ecocycle Ltd. (Hamamatsu, Shizuoka)” since the enforcement of the law. As actual results of recycling of our company’s products up to FY2012, we recovered total about 3.04 million sets of used electric home appliances at 18 recycling plants all over the country including Fuji Ecocycle Ltd. and the total product recycling weight was about 150,000 tons. Furthermore, we are promoting the “closed recycling” of resources adopted for our products by recycling the PP material (polypropylene) collected by decomposition and disposition and reusing for our products.

Activities in FY2012

【Recycling results】

Based on the Electric Home Appliance Recycling Law, we publicize our recycling results in our website^(*). In FY2012, total accepting quantity of disposal of our products was 310,000 sets and total recycling weight was 13,778 tons.

FY2012 Recycling Results

Item	Air conditioner	TV		Refrigerator/ Freezer	Washing machine/ Cloth drier
		CRT type	LCD/Plasma type		
Accepting quantity at specified accepting place	144,841 sets	3,663 sets	265 sets	150,292 sets	9,305 sets
Product recycling disposed quantity	145,554 sets	3,866 sets	242 sets	150,875 sets	9,452 sets
Product recycling disposed weight	5,982 ton	101 ton	4 ton	9,537 ton	330 ton
Product recycling weight	5,619 ton	82 ton	4 ton	7,766 ton	307 ton
Product recycling rate	93 %	81 %	89 %	81 %	93 %

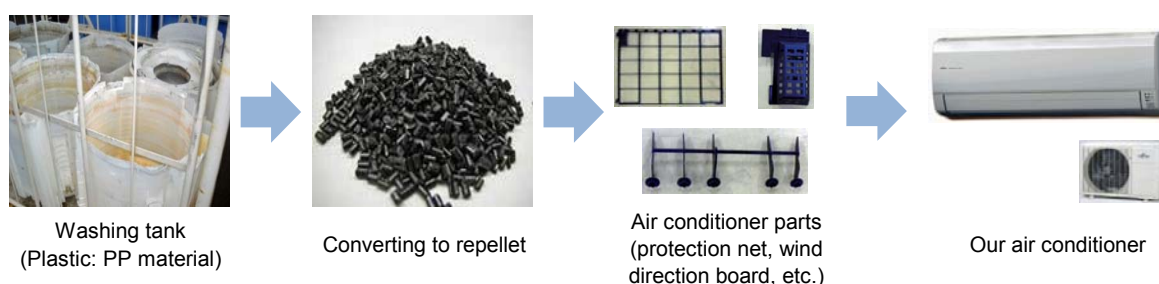
Breakdown of Product Recycling Weight

Item	Air conditioner	TV		Refrigerator/ Freezer	Washing machine/ Cloth drier
		CRT type	LCD/Plasma type		
Iron	1,336 ton	11 ton	1 ton	3,756 ton	144 ton
Copper	380 ton	4 ton	0 ton	160 ton	7 ton
Aluminum	922 ton	0 ton	0 ton	106 ton	4 ton
Composite of nonferrous, iron, etc.	1,923 ton	0 ton	0 ton	1,296 ton	37 ton
CRT glass	—	42 ton	—	—	—
Other valuable items	1,055 ton	24 ton	2 ton	2,445 ton	113 ton
Total weight	5,619 ton	82 ton	4 ton	7,766 ton	307 ton

*1 : Product recycling results report: : <http://www.fujitsu-general.com/jp/corporate/eco/recycle/recycle.html>

【Closed recycling】

We are recycling plastic PP materials recovered by Fuji Ecocycle and reusing for mechanical parts of our air conditioners. We have been implementing the closed recycling since FY2008 and reused accumulated total 579 tons of plastic up to FY2012.



Flow of closed recycling of resources

■ Environmental Protection Program Stage VII

In order to strengthen the activity to reduce environmental burden, we established the “ Environmental Protection Program Stage VII” as the environmental activity program for 3 years from FY2013 through FY2015.

Environmental Protection Program Stage VII (Targets up to the end of FY2015)	
Reduction of environmental burden for customers and society	1. Development of environmental protection products and technologies and expansion of supply to the market to reduce the global environmental impact throughout the product lifecycle
	1) Designating all products to be newly developed as “Green Products”^{(*)1}” 2) Increasing the sales of “Green Products” to more than 4 times of FY2012 by the end of FY2015 3) Designating more than 30% of the models developed in each fiscal year as “Super Green Products”^{(*)2}” 4) Developing “Industry’s top level technology in environmental performance
	2. Reduction of energy consumption CO ₂ emission in the domestic bases, overseas bases and domestic product logistics
	1) Reduction of energy consumption CO₂ emission <ul style="list-style-type: none"> · Reducing CO₂ emission in sales basic unit globally to less than 95% of FY2012 by the end of FY2015 · Domestic: Reducing in energy basic unit to less than 95% of FY2012 by the end of FY2015 · Overseas: Reducing in energy basic unit to less than 92% of FY2012 by the end of FY2015 2) Reduction of CO₂ in domestic logistics <ul style="list-style-type: none"> · Reducing in sales quantity basic unit to less than 97% of FY2012 by the end of FY2015
Reduction of environmental burden within our business activities	3. Promotion of environmentally-friendly MONOZUKURI and suppression of emission of wastes and specific chemical substances ^{(*)3}
	1) Reduction of waste emission <ul style="list-style-type: none"> · Reducing waste emission in sales basic unit globally to less than 80% of FY2012 by the end of FY2015 · Domestic: Reducing in basic unit of each area to less than 76% of FY2012 by the end of FY2015 · Overseas: Reducing in output basic unit to less than 90% of FY2012 by the end of FY2015 2) Reduction of specific chemical substances <ul style="list-style-type: none"> · Reducing emission of specific chemical substances used in production
	4. Operation efficiency improvement and level-up of Environmental Management System (EMS) ^{(*)4} in all domestic and overseas business bases.
	1) Improving companywide environmental promotion framework and enhancing the efficiency by the end of FY2015 <ul style="list-style-type: none"> · Indexing negative cost (wastes generated in performing work) converting to CO₂. 2) Establishment and level-up of EMS at all overseas parts/material suppliers 3) Strengthening chemical substance management system (CMS)^{(*)5} at suppliers
	5. Concrete activities for biodiversity ^{(*)6} conservation
	1) Tackling biodiversity conservation activity through biotope^{(*)7} 2) Promoting biodiversity conservation activity for business offices and suppliers

*1 : Products which enhanced environmental performance such as energy saving, resource saving, reduction of hazardous substances from current products.

*2 : Products which have industry’s top level of environmental performance among Green Products or the products which were commended by the third party in the environmental performance.

*3 : Specified chemical substances: Specified by our own concept according to the substances and the amount used which influence human and environment.

*4 : EMS (Environmental Management System): System and guideline relating to environmental protection activity. e.g.: International Standard ISO14001.

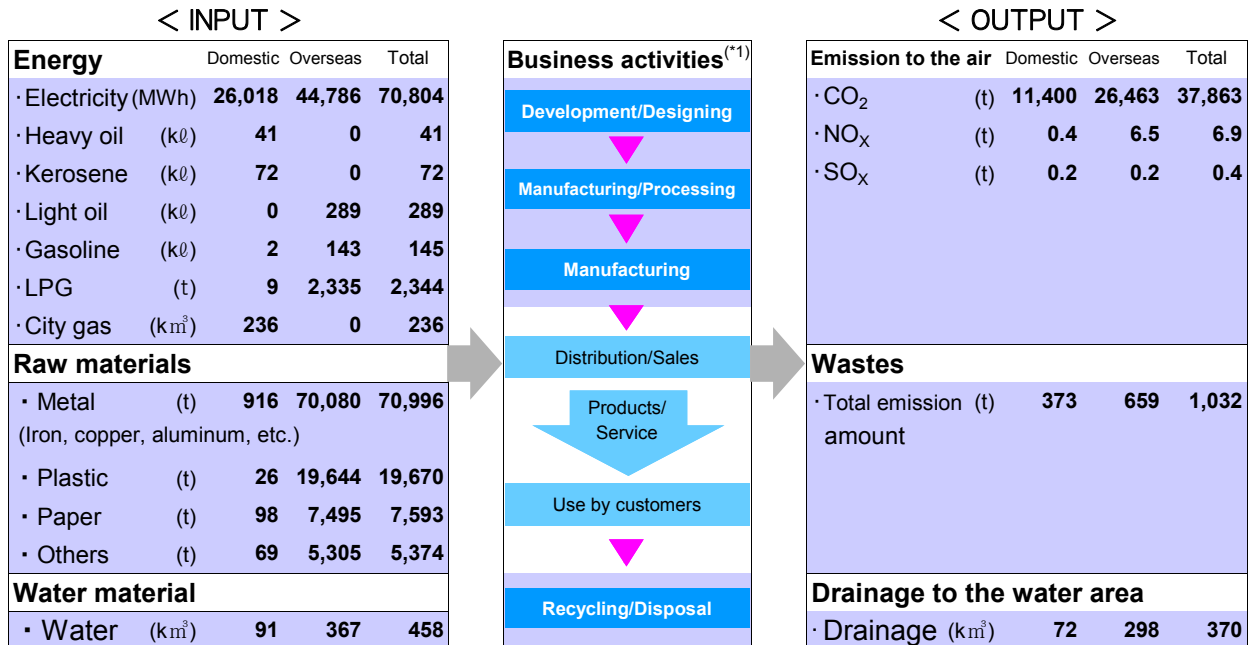
*5 : CMS (Chemical Management System): System of establishing chemical substance management framework at suppliers and receiving control.

*6 : Biodiversity: Status balanced between various species existing on earth and various ecosystems composed by the species.

*7 : Biotope: Space where diverse creatures inhabit. Geographical minimum unit of habitat with characteristics clearly distinct from surrounding area.

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 FY2012 were as below. The improvement of the environmental burden amount was confirmed every year on the basic unit bases of consolidated sales.



*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

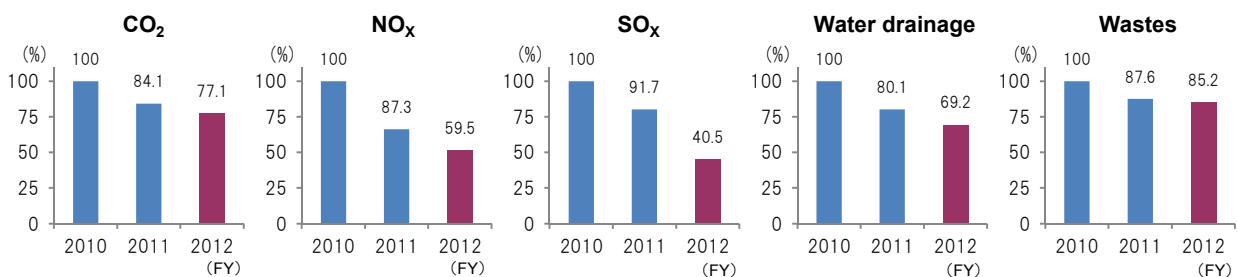
< OUTPUT >

- CO₂ : CO₂ emission generated by energy consumption in factories and business offices (Energy consumption x CO₂ conversion factor)
- NO_x, SO_x : Calculated based on the result of measuring the substance density of exhaust gas emitted from smoke generating facility in the factories and business offices.
Amount emitted by fuel consumption of vehicles used in the factory premises (Fuel amount used x emission coefficient)
- 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 FY2010 to 2012 in the basic unit based on the result of business activities (consolidated sales), the improvement was confirmed on all the items.^(*)

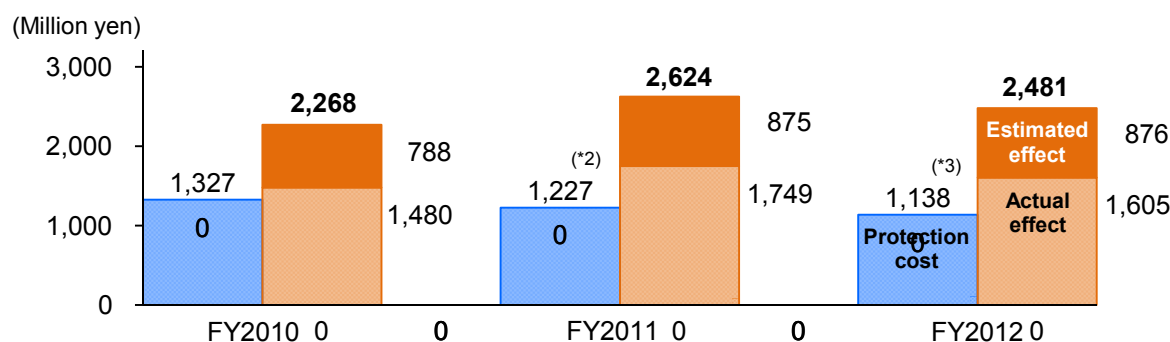
*2 Compared with consolidated sales basic unit of FY2010 as 100



Environmental Accounting

The environmental protection cost in FY2012 was 1,138 million yen (89 million yen down from the previous year) and the economic effect was 2,481 million yen (143 million yen up) and the capital investment^(*) was 112 million yen. Main factors for decrease of cost and effect were 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 and the decrease of revenue by the sales of scrap.

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 : Corrected the mistake of "Research & development amount (Capital investment amount)" in FY2012 environmental protection cost. (28 million yen → 38 million yen)

*3 : Added personnel cost of office bases (sales/service bases, business offices, etc.) to FY2012 environmental protection cost.

Environmental protection cost (FY2012)^(*)

(million yen)

Item	Main contents	Investment amount	Cost amount ^(*)
Pollution prevention	Air/water pollution protection, etc.	10	83
Environmental protection	Global warming prevention/Ozone layer depletion prevention	28	259
Resources recycling	Resources effective use, industrial waste disposal, etc.	0	457
Costs in business area		38	799
Production upstream/downstream activity cost	Recycling of used products, etc.	46	44
Management activity	EMS, environmental education, etc.	0	26
R&D	Development of environmentally-friendly products/technologies	28	269
Environmental Protection	Recovery of land pollution	0	0
Total		112	1,138

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

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

Economic effects relating to environmental protection (FY2012)

(million yen)

Item	Main contents	Amount
Estimated effect	Sales contribution amount, etc. ^(*) in environmentally-friendly designing	876
Revenue	Sales of valued articles by recycling	789
Cost saving	Resource saving, etc.	786
Risk aversion	Drainage facility, refrigerant measure facility, etc.	30
Actual effect		1,605
Total		2,481

*6 : 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).

Environmental Communication

Regional Contribution Activities

Delivery lecture on energy conservation

As part of regional environmental protection activities, we conducted “delivery lecture on energy saving” by Fujitsu General concierge at the local primary schools to teach the importance of energy saving with air conditioner and other home electric appliances as examples.



Delivery lecture on energy conservation at school (Hachioji City)



Delivery lecture on energy conservation at school (Kawasaki City)

Cleaning activity

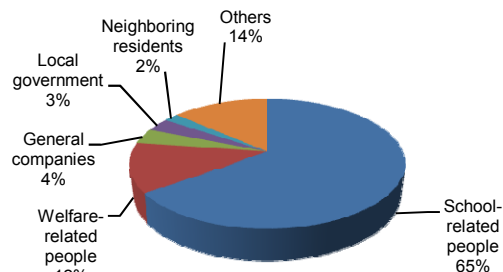
Fujitsu General Group is continually implementing cleaning and greening activities around the company office aiming at regional environment conservation and co-existence with community.



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

Inviting visitors to home electric appliance recycling factory

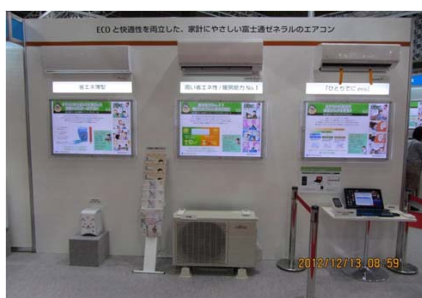
In order to have home electric appliance recycling system understood more deeply, Fuji Eco Cycle Ltd. is positively inviting visitors from neighboring schools and local governments. The number of visitors in FY2012 was 967.



Breakdown of visitors

Exhibition Activities

We exhibited our products at Fujitsu Group booth in the “Eco-Products 2012”, Japan’s biggest class environmental exhibition, held in December, 2012. This time, as sample display, we demonstrated operation monitoring function and power on-off function of air conditioner using smartphone. Also, at the Fujitsu “My Cloud” corner, we demonstrated the remote operation of our air conditioner by the Cloud computing network using PC and smartphone. Thus, we appealed our company’s advanced technology and environmental activities through products.



Appealing “Compatibility between eco and comfort”



Fujitsu “My Cloud” corner

History of Environmental Activities

(FY)

- 1978 · Environmental Pollution Prevention Committee established
- 1991 · Environmental Protection Promoting Committee established
- 1993 · “Commitment to the Environment” established
· “Environmental Protection Program Stage I” established
- 1995 · Operation of Product Environmental Assessment started to evaluate the impact of products on the environment
- 1996 · “Environmental Protection Program Stage II” established
- 1998 · Fujitsu General (Shanghai) Co., Ltd. acquired ISO14001 certification
- 1999 · All manufacturing subsidiaries in Japan completed acquisition of ISO14001 certification
· Fujitsu General (Thailand) Co., Ltd. acquired ISO14001 certification
- 2000 · Fuji Eco Cycle Ltd. established to recycle end-of-life electric home appliances
- 2001 · “Environmental Protection Program Stage III” established
· 5 domestic sites integrated as Fujitsu General Limited head office and domestic manufacturing companies
· Fuji Eco Cycle Ltd. acquired ISO14001 certification
- 2002 · FGA (Thailand) Co., Ltd. acquired ISO14001 certification
- 2003 · “Fujitsu General Group Environmental Policy” established
- 2004 · “Environmental Protection Program Stage IV” established
· ISO14001 covering area in Japan expanded to all sales branches
- 2006 · Fujitsu General Central Air-Conditioner (WUXI) Co., Ltd. acquired ISO14001 certification
- 2007 · “Environmental Protection Program Stage V” established
- 2008 · ISO14001 integration in domestic areas completed
- 2010 · “Environmental Protection Program Stage VI” established
· Fuji Eco Cycle Ltd. relocated to new factory.
- 2012 · “Fujitsu General Group Environmental Policy” revised
· “Fujitsu General Group Biodiversity Action Principles” established
- 2013 · “Biotope” established at Hamamatsu Office
· 11 overseas sales subsidiaries acquired ISO14001 certification
· “Environmental Protection Program Stage VII” established

■ Status of Acquisition of ISO14001 Certification

Company	Certificate acquisition year
Fujitsu General Head Office Sales branches Hamamatsu Business Office Matsubara Business Office Aomori Business Office	2013 Organizational integration completed
FES Ltd. CSP Ltd. Seiwa-kai Ltd. Fuji Eco Cycle Ltd. Fujitsu General EMC Laboratory Ltd. Fujitsu General Electronics Ltd. Fujitsu General Carrier Promoting Co., Ltd. Fujitsu General Institute of Air-Conditioning Technology Ltd. Fujitsu General Information System Ltd. Fujitsu General Residential Equipment Ltd. Fujitsu General Heartware Ltd. Fujitsu General America, Inc. Fujitsu General Do Brasil Ltda. Fujitsu General (Aust.) Pty Limited. Fujitsu General New Zealand Limited. Fujitsu General (Asia) Pte., Ltd. Fujitsu General (Taiwan) Co., Ltd. Fujitsu General Orient International Electronics Sales (Shanghai) Co., Ltd. Fujitsu General (U.K.) Co., Limited. FG Eurofred Limited. Fujitsu General (Middle East) Fze. Fujitsu General (Euro) GmbH.	
Fujitsu General (Shanghai) Co., Ltd.	1998
Fujitsu General (Thailand) Co., Ltd.	1999
Fujitsu General Engineering (Thailand) Co., Ltd.	1999
FGA (Thailand) Co., Ltd.	2002
Fujitsu General Central Air-Conditioner (WUXI) Co., Ltd.	2006



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