

FUJITSU

shaping tomorrow with you

ENVIRONMENTAL REPORT FY2010

This is the report on the organizations in Japan controlled under Environmental Management System based on ISO14001:2004 approvals.

FUJITSU COMPONENT LIMITED

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This report primarily focuses on the efforts, and accomplishments for FY2009, the period from April 1st, 2009 to March 31st, 2010, with the data reflecting the actual results for that period. The report also includes our approaches and targets for FY2010, the period from April 1st, 2010 to March 31st, 2011. FY2010 approaches and targets include uncertainty. We ask our reader's understanding of the fact that we cannot be responsible for such eventualities.

■ Top Message



Koichi Ishizaka
President and
Representative Director

Fujitsu Components Group has been addressing the environment protection throughout all business activities under corporate culture built through responses to customers' requirements for low power consumption and miniaturization.

Environmental challenges are the tasks all countries, companies and individuals have to take actions as one's own. It is necessary to consult on in long-term targets, such as shared vision of 80% reduction of greenhouse gas in advanced countries and 50% in whole world by 2050, and settlement of long-term view for biodiversity conservatory by 2050.

Fujitsu Components Group believe the act of components, as a core of supply chain, shall have important rolls to achieve the long-term targets without inflicting a heavy sacrifice on social system.

Smart grid and smart house have been drawing large attention as one of the effective methods for preventing global warming. In FY2009, we proposed for those market plug and socket ^(note) that provide excellent safety and utilities under high voltage DC distribution system, AC relays for photovoltaic system and high voltage DC relays for battery charger, and also provided the solutions for data transmission with wireless modules by keeping our attitude that we must solve the global warming issues with our customers.

(Note) It is joint development with NTT FACILITIES INC. and has also been conducting practical trials.

Based on the prior activities, Fujitsu Components Group has formulated the 5th Stage Group Environmental Activity Plan, a target of FY2010-FY2012 environmental activities, including biodiversity conservatory, and have started environment protection program towards low carbon society under 4 targets: "Improvement of environmental value of products and services", "Enhancement of own environmental load reduction plan", "Promotion of environmental and social contribution activities", and "Promotion of biodiversity conservatory activities".

Fujitsu Components Group recognizes roles and responsibility component manufacturers must carry out towards solution of serious issues of environment protection. As a member of Fujitsu Group, we determine to contribute to ensure sustainable global environment and society in line with *Green Policy 21*, Fujitsu Group's environmental concept, *Green Policy 2020*, middle-term environmental visions, and *Green Policy innovation*, project for environmental-load reduction by green ICT.



Haruo Mochizuki
Senior Representative Group EMS
Senior Member of the Board

FUJITSU COMPONENTS' GROUP MISSION

The FUJITSU COMPONENTS GROUP will continuously provide **high reliability and high quality products, technical proposals, and cost competitiveness.** We will contribute to the environment and society and reinvest profits and growth. As a business partner, FUJITSU COMPONENTS GROUP aims to further improve the products for our customers in a timely manner.

■ Environmental Policy, Environmental Program

Based on the statement of *contribution on the environment and society* in the Group Mission, the realization of low-carbon society and environment protection has been set as a top management priority to deliver the beautiful global environment for future generations, we are dedicated to conduct our business activities continuously and in a timely manner by providing environmental policy and setting goals keeping in line with the Fujitsu Group's environmental approach *Green Policy 2.1*, middle-long-term vision *Green Policy 2020* and environmental load reduction program by green ICT *Green Policy Innovation*.

■ Group Environmental Policy

(Established on April 12, 2010, Senior Representative Group EMS: Haruo Mochizuki, Senior Member of the Board)

Fujitsu Components Group (hereunder "the Group"), a member of Fujitsu Group, recognized the value and importance of protecting the global environment including climate control and biodiversity conservatory as one of the most important issues. Our environmental philosophy is: *We shall keep the best corporate activities while improving our coexistence with the environment*. As an enterprise that develops, designs, manufactures and sells electrical components, we promote environmental management towards realization of low-carbon and affluent society in accordance with ISO14001.

1. We continuously improve our environmental management system and promote the prevention of environmental pollution by affirming environmental aspects of our activities, products and services.
2. We comply with various environmental laws which involve our activities, products and services and other requirements we agree.
3. We continue the complete ban of hazardous substances in our products as specified by Fujitsu Components Group. We do not use or include any hazardous substances in our products, nor do we discharge any hazardous substances into the environment.
4. We promote the following items as the most important environmental management among the environmental aspects which our activities, products and services involve;
 - Provide the most advanced eco-friendly products by considering the environmental impact from the research and development, and design stage.
 - Reduce CO₂ generated by energy consumption.
 - Reduce emission of priority chemicals.
 - Further reduce the total amount of waste generation.
 - Promote the Green Procurement activity throughout the supply chain.
5. Every staff shall strive to improve the environment through their work and the position as employee.

Supplement

1. We promote the environmental management in order to achieve the major control items by establishing and reviewing the environmental aims and targets.
2. This policy is documented and made public to our employees, our group members and other parties concerned.

■ The 5th Stage of Fujitsu Components Group's Environmental Protection Program

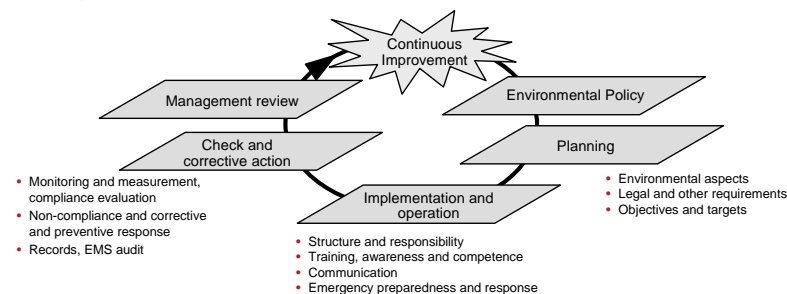
(Established on April 12, 2010)

This Environmental Protection Program states the actual action plans to implement our group Environmental Policy and important control items and it is the medium term action plans to be achieved by FY2012.

1. Improvement of Environmental Value of Products and Services
 - More than 30% of newly developed Green Products shall be Super-Green Products which contribute to energy saving by the end of FY2012.
 - Establish calculation method of eco-efficiency factor and LCA, and achieve the eco-efficiency factor of 1.2 on the newly designed Green Products by the end of FY2012 compare with the products development on FY2008.
2. Enhancement of Own Environmental Load Reduction Plan
 - Reduce CO₂ emission created by energy consumption not exceeding 18,200t-CO₂, 20% reduction from the FY2000 level (22,777t-CO₂), by the end of FY2012.
 - All materials shall be procured from the supplies who have target program to reduce CO₂ emission by the end of FY2010.
 - Reduce priority chemicals specified by each business unit not exceeding 6,320kgs, 30% reduction from the level of FY2007 (9,038kgs) by the end of FY2012.
 - Reduce generation of waste not exceeding 875t, 10% reduction from the FY2007 level (973t), by the end of FY2012.
3. Promotion of Environmental & Social Contribution Activities
 - Each business unit shall contribute to social activities in their local community at least once a year.
4. Promotion of Biodiversity Conservatory Activities
 - Each business unit shall provide the education of biodiversity conservatory for diffusion and edification.
 - All materials shall be procured from the supplies who declare effort for biodiversity conservatory by the end of FY2012.

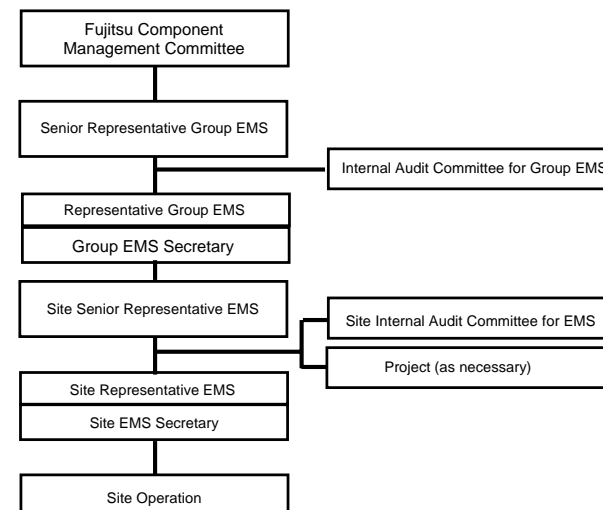
■ Environmental Management System

We have established environmental management system based on international standard ISO14001:2004 and are promoting continuous improvement activities.



■ Organization of Environmental Activities

Senior Representative Group EMS, who controls overall group activities, is set up under the Management Committee. Internal Audit Committee for Group EMS directly supporting the Senior Representative Group EMS. Site Senior Representative EMS and Site Representative EMS are set up in each 6 Japanese sites and they operate as subordinate organizations of Environmental Committee. 3 overseas sites have independent environmental committees and operate in close contact with Environmental Committee. As a member of Fujitsu Group, we conduct activities in corporation with the Fujitsu Group's environmental organizations.



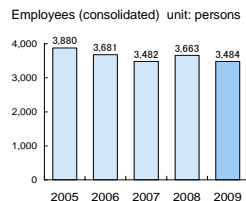
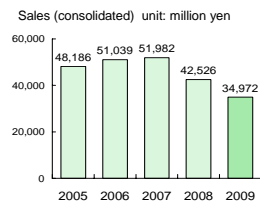
Note 1) Japanese 6 sites : Head Office Area, Engineering & Development Center, Shinano Fujitsu Limited, Miyazaki Fujitsu Components limited, Chikuma Tsushin Industry Co., Ltd. Takamisawa Electric Co., Ltd. Shinshu Plant. Tochigi Tec Co., Ltd. used to work as a site until end of FY2008 but was reorganized under Shinano Fujitsu Limited and Head Office from FY2009. They shutdown in August 2009 and returned the estate in January 2010.

Note 2) Overseas 3 sites: FUJITSU COMPONENT (MALAYSIA) SDN. BHD., in Malaysia, FUJITSU COMPONENTS (CHANGZHOU) CO., LTD. in China, QINGDAO KOWA SEIKO CO., LTD. in China.

■ Group Profile

■ Group Profile

Head Office FUJITSU COMPONENT LIMITED
 Address 3-5 Higashi-Gotanda 2-chome, Shinagawa-ku, Tokyo 141-0022, Japan
 President Koichi Ishizaka
 Main Business Manufacture and sale of connecting components (relays and connectors), input/output devices (keyboards etc.) and other applied electrical devices
 Capital 6,764 million yen (as of March 31, 2010)
 Sales 34,972 million yen (consolidated, FY2009)
 Financial year end March 31
 Employees 3,484 (consolidated, as of end of March 2010)
 Equity Market Second Section of the Tokyo Stock Exchange, code 6719
 Group Composition The Group is composed of total 17 companies; 8 Japanese companies including 1 sales company, and 9 overseas companies including 5 sales companies. 1 overseas company is nonconsolidated subsidiary, another 1 overseas company is equity method affiliate (please refer to P.27)



■ Environmental Management Applicable Sites

(Fujitsu Component Limited Engineering & Development Center works as primary)

Site	Location	Employees	Business Activities
FUJITSU COMPONENT LIMITED Engineering & Development Center	Suzaka-shi, Nagano	419	Development and design of relays, touch panels, thermal printers, keyboards, KVM switches. Manufacturing of touch panels (Shinano Fujitsu Limited)
SHINANO FUJITSU LIMITED	Iiyama-shi, Nagano	580	Manufacturing of connectors, thermal printers, keyboards, KVM switches and printed-board-mounting parts.
MIYAZAKI FUJITSU COMPONENTS LIMITED	Nichinan-shi, Miyazaki	371	Manufacturing of relays.
CHIKUMA TSUSHIN INDUSTRY CO., LTD	Saku-shi, Nagano	121	Manufacturing of relay parts
TAKAMSAWA ELECTRIC CO., LTD. Shinshu Plant	Saku-shi, Nagano	55	Manufacturing of relay parts
FUJITSU COMPONENT LIMITED Head office area	Shinagawa-ku, Tokyo Nagoya-shi, Aichi Osaka-shi, Osaka	221	Development and design of connectors, group management, sales of products

Note 1) Employees in each sites are as of March 31, 2010.

Note 2) Fujitsu Component Limited Head Office Group includes Tokai (Aichi) and Osaka (Osaka) sales office and TEC Co., Ltd. (a sales subsidiary). Kyusyu sales office (Fukuoka) takes activity under Fujitsu Limited Kyusyu sales office.

Note 3) Miyazaki Fujitsu Components Limited took over manufacturing lines from Chikuma Tsushin Industry Co., Ltd. 2nd factory at the end of December 2009 and Togakushi Denshi Co., Ltd. at the end of August 2009. Tochigi Tec Co., Ltd. shut down at the end of August 2009 and returned the estate to the owner in January 2010.

■ Independent Environmental Management Applicable Sites

Site	Location	Business Activities	ISO14001:2004 status
FUJITSU COMPONENT (MALAYSIA) SDN. BHD	Johor, Malaysia	Manufacturing of relays and keyboards	Organization: SIRIM QSA International Sdn. Bhd Number: ER0124 Validity: July 27, 2013
FUJITSU COMPONENTS (CHANGZHOU) CO., LTD.	Changzhou, China	Manufacturing of relays	Organization: CHINA QUALITY CERTIFICATION CENTRE Number: 00108E22105R1M3200 Validity: April 28, 2011
QINGDAO KOWA SEKO CO., LTD.	Qingdao, China	Manufacturing of relay parts	Organization: CHINA QUALITY CERTIFICATION CENTRE Number: 00110E20300R0M3700 Validity: February 8, 2013

■ Equity Method Affiliate

Site	Location	Investment	Business Activities	ISO14001:2004 status
TRANSTOUCH TECHNOLOGY INC.	Tao-yuan, Taiwan	18.75%	Manufacturing of touch panel	Organization: SGS UNITED KINGDOM LTD. Number: TW06/00917 Validity: March 3, 2012

Investment Ratio is as of April 30, 2010.

■ ISO14001 Certificate

■ ISO14001 Certificates



Reference) ISO14001 Certificates of Independent Environmental Management Applicable Sites and Equity Method Affiliate



FUJITSU COMPONENT (MALAYSIA) SDN. BHD.

FUJITSU COMPONENTS (CHANGZHOU) CO., LTD.

QINGDAO KOWA SEIKO CO., LTD.

TRANSTOUCH TECHNOLOGY INC.

■ **Topics of Environmental Activities**

■ **Development of Eco-Friendly Products**

■ **Green Products, Super Green Products**

We strive to improve environmental performance throughout the product life cycle. We conduct environmental assessment on all products newly developed and oblige them to be *Green Products*, which complies with environmental standards. In addition, the products at the top class in terms of environmental-saving and/or 3R design technology, and having superior characteristics to others we supply or are available on the market are positioned as *Super Green Products* among Green Products.

Note 1) 3R design: Design based on the principles of Reduce, Reuse and Recycle.

Note 2) Super Green Products are approved by Fujitsu Limited, the head of Fujitsu Group.

■ **Super Green Products in FY2009**

In FY2009, 15 products were approved as Super Green Products in all our major product series; 4 relays, 3 connectors, 1 keyboard, 1 KVM switch, 1 touch panel, 3 thermal printers and 2 wireless modules. Here is the list of approved products.

Product	Series name / Product name	Feature
Relay	FTR-J2	10A-450VDC rating relay, reduced power consumption, weight and volume.
	FTR-K2W	Reduced volume. Reduced standby power consumption by setting of holding voltage.
	FTR-K1L	No standby power required (latching). Increased shock resistance three times (in comparison with equivalent products from other companies).
	FTR-V1	Standby power is unnecessary (latching).
Connector	88 straight jack	Reduced occupied volume with lower profile and miniaturization.
	07J for DDR3	Reduced temporary-joint piece-parts.
	360 right angle plug FCN-365P	Reduced weight.
Pointing device	N01B-4824-B811/20	Reduced standby power consumption.
KVM Switch	NC14004-B291-R KVM 8 port	Reduced weight and volume.
Touch Panel	Multi-input touch panel	Reduced piece-parts quantity. Eliminate piece-parts using PFOS (persistent organic pollutants).
Thermal Printer	FTP-62ADSL000-R	Reduced volume.
	FTP-63ADSL401-R	Reduced volume.
	FTP-627MCL411-R	Reduced power consumption. Increase printing speed.
Wireless Module	MBH7BTZ39 Bluetooth® module	Reduced number of piece-parts, weight and volume.
	MBH7BWZ04 Combo module	Reduced weight and volume.

We will review adaptation criteria of Super Green Products by adding energy-saving items and Euro-American advanced environmental criteria etc., to assess environment-friendliness in global level from FY2010.

■ **Reducing Products' Environmental Load by Using the Eco-Efficiency Factor**

In FY2009, we strived to achieve *eco-efficiency factor* "1.2" or better (compared with FY2005 products) on at least 1 product newly developed in each product line. As the result, we achieved "2.33" on keyboard, "1.5" on connector, "1.42" on KVM switch and "1.2" on other 3 products. We will change comparison product year to FY 2008 and will promote utilization of eco-efficiency factor as an indication of energy-saving design from FY2010.

■ **Management of the Restricted Chemical Substances in Products**

We have specified *Banned Substances* and *Control Substances* in products, in compliance with Japanese and international laws and regulations, industrial regulations, and environmental load newly observed through social conditions and scientific developments. And through our *Green Procurement Activities*, we are working to eliminate use of these specified substances under the slogan "not add, not use, not attach, not emit". In addition, we requested all material suppliers to construct chemical substance control system to enhance hazardous substance control. And we confirmed the systems and the operations are at the acceptable level through on-site audit.

■ **Response to Recent Environmental-Related Regulations**

We conducted information gathering and compiling database throughout all supply chains, and have constructed the system responsible to customers' investigation request. Also we sustain compliance system through further registrations of SVHC (Substances of Very High Concern), control of expired exemptions and contained substance review under RoHS directive and other laws and regulations.

■ **Global Warming Countermeasures**

We have joint-developed Power bar and plug with NTT FACILITIES, INC. for High Voltage DC distribution systems, which are expected to contribute to reduction of CO₂ emission, and have been conducting demonstration experiment. We also developed 450VDC-10A rating and 72VDC-1kW rating relay for DC output and miniature relays for AC output control for photovoltaic systems.

In production sites, we systematically implemented forced exhaust of exhaust heat from equipments, and thorough cut-off activities to reduce the waste of operation of air-compressors and room-air conditioners.

In administrative sites, each employee has tackled reduction of CO₂ emission by thoroughly turn off the power of PC and room lighting in non-use.

We will take global warming measures in all aspects to achieve *Challenge 25 Campaign* from FY2010.



Reduction of air-cooling load by forced exhaust system
Shinano Fujitsu Limited

■ **Chemical Substance Measurement**

We worked for reduction of VOC (volatile organic compound) emission, which is said to be a cause of photochemical oxidant, by changing chemical cleaning to pure-water cleaning, and by changing solutions to the one with lower volatile, and achieved constant improvement in FY2009.

We will take reduction measures focused on the most environmental-influential solutions by site.

■ **Waste Management**

We succeeded reduction of waste by improvement of efficient and systematical disposal of each site's common wastes by unification of disposal constructors and buyers, and by participating in Fujitsu Group's communal recycle activity. Also we converted 20 items of waste to resources, and achieved 107% waste reduction against FY2009 target.

We will proceed study of beneficial use, including recycling, of glasses, films and solutions used for touch panels from here on.

■ **Compliance and Prevention of Environmental Pollution**

We specified environmental-related controls, ordinances, local agreements, customers' requirement to be applied on each site and checked compliance once a quarter to prevent deviancy. However, it was reported at Takamisawa Electric Co., Ltd. Shinshu Plant that excessive pH(9.3 against ordinance's pH standard 5.0 to 9.0) was measured in public sewer water by January 20, 2010 sampling. We confirmed there was no damage on neighborhood immediately, and took preventive measures by changeover household detergent (pH 11 or more) to industrial-use detergent (undiluted solution pH 8.5). Concerning groundwater pollution at Takamisawa Electric Co.,Ltd., we continue soil clean up and monitoring at observation well, and confirmed it had not exceeded standard values.

■ **Environmental and Social Contributions**

We conducted community-based social actions such as throughout-town cleanup activities by employees and their families at Shinano Fujitsu Limited, cleanup of green turtle's spawning beach at Miyazaki Fujitsu Components Limited, cleanup activities in each site, donation of vaccine through PET bottle cap correction.



Local cleanup activity
Engineering & Development Center

■ **Efforts in biodiversity conservatory**

We will address the biodiversity conservatory based on thorough understanding that there are endemic natures, unique organisms and they are connected, and our life and business activities receive benefit from the biodiversity. In particular, we conduct educational campaign at each site, and proceed active procurement from the supplies who conduct biodiversity conservatory activities

■ FY2009 Targets and Achievement, FY2010 Targets

■ FY2009 Targets and Achievements (Group Total)

■ FY2009 Targets and Achievement (Group Total)

The 4th Stage Environmental Protection Program		Targets (FY2009)	Performance (FY2009)	Status
Item	Target			
Enhancement of Super Green Products	Targeting the Green Products being developed in FY2007 onward, increase the number of Super Green Products by at least 40% (*) of all by the end of FY2009. (* We set higher target since original target 20% was cleared. Result in FY2008 was 35.9%)	Targeting the Green Products being developed during FY2007 to FY2009, increase the number of Super Green Products by at least 40% of all.	27 products (48%) were approved as Super Green Products form 56 Green Products that had been developed since FY2007.	Done
Achievement of eco-efficiency factor	Achieve eco-efficiency Factor 1.2 for Green Products in each product being newly developed by the end of FY2009.	Achieve Factor 1.2 in each product being newly developed.	Achieved in main products (6 product lines).	Done
Reduction of energy consumption-related CO ₂	Hold down n CO ₂ emissions to below 106% the FY2005 level (17,213t-CO ₂) by the end of FY2010.	Reduce by 9.0% from the FY2005 level, i.e. max. 15,648t-CO ₂ in other words, reduce by 4.6% from the FY2008 level (16,406t-CO ₂).	15,096t-CO ₂ (Reduced 12.3% from FY2005 results)	Done
Reduction of VOC	Reduce VOC emission by 22% the FY2005 level (17,110kg) by the end of FY2009.	Reduce by 26.7% from the FY2005, i.e. max. 12,532kg. In other words, hold down n to 102.4% the FY2008 level (12,240kg).	10,535kg (Reduced 38.4% from FY2005 results)	Done
Reduction of waste generation	Hold down n waste generation below 103% the FY2005 level (956.5t) by the end of FY2009.	Reduce by 7.9% from the FY2005 level, i.e. max. 880.7t. In other words, reduce by 1.7% from the FY2008 level (896.8t).	819t (Reduced 14.4% from FY2005 results)	Done
Promotion of Green Procurement Activities	Support to improve our business partner's EMS to reinforce environmental activities throughout the supply chain.	Achieve an operate level II or higher EMS w ith all material business partners.	100% Objective partners 168 companies	Done
	Support to improve our business partner's CMS to reinforce environmental activities throughout the supply chain.	Achieve a rank A, B CMS w ith all material business partners.	100% Objective partners 251 companies	Done
Environmental and social contribution	Promote environmental activities in local communities, and each business site shall contribute to social activities in their local community at least on in a year.	Implement contributions to society at least one per year at each business site.	13 activities (more than one activity at each business site)	Done

■ Status of Environmental Laws Compliance

Please refer to P.9 for details. Concerning compliance at each site, please refer to P.12 onward.

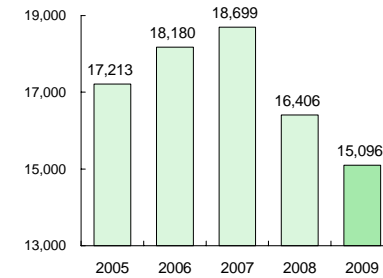
■ FY2010 Targets (Group Total)

The 5th Stage Environmental Protection Program (FY2010)		Targets (FY2010)
Item	Targets	
Improvement of environmental value of products and services	More than 30% of newly developed Green Products shall be Super Green Products w hich contribute to energy saving by the end of FY2012.	Develop at least one Super Green Products w hich contribute energy-saving.
	Establish calculation method of environmental efficiency factor and LCA, and achieve the environmental efficiency factor of 1.2 on the newly designed Green Products by the end of FY2010 compare w ith the products developed in FY2008.	Establish calculation method of environmental efficiency factor and LCA and settle the factor value.
Enhancement of own environmental load reduction plan	Reduce CO ₂ emission created by energy consumption not exceeding 18,200t-CO ₂ , 20% reduction from the FY2000 level (22,777t-CO ₂), by the end of FY2012.	Hold it down n to below 17,668t-CO ₂ in the Group.
	All materials shall be procured from the suppliers w ho have target program to reduce CO ₂ emission by the end of FY2012.	Conduct investigation on all suppliers.
	Reduce priority chemicals specified by each business unit not exceeding 6,320kg, 30% reduction from the level of FY2007 (9,038kg) by the end of FY2012.	Hold it down n to below 6,959kg in the Group.
Promotion of environmental & social contribution activities	Reduce generation of waste not exceeding 875t, 10% reduction from the FY2007 level (973t), by the end of FY2012.	Hold it down n to below 851t in the Group.
	Each business unit shall contribute to social activities in their local community at least once a year.	Implement at least one activity at each group company.
Promotion of biodiversity conservatory activities	Each business unit shall provide the education of biodiversity conservatory for diffusion and edification.	Implement at least one investigation for biodiversity conservatory activities at each group company.
	All materials shall be procured from the suppliers w ho declare effort for biodiversity conservatory by the end of FY2012.	Conduct investigation on all partners.

■ Environmental Load Data

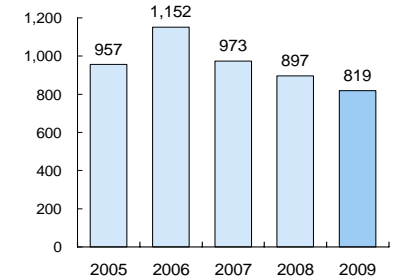
■ Environmental Load Data (Group Total)

■ CO₂ Emissions (unit : t-CO₂)

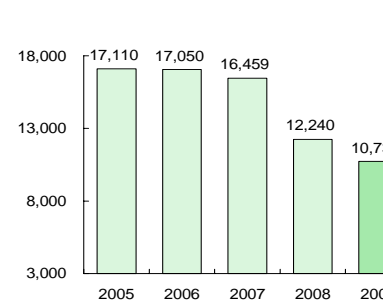


Note: FY2009 includes non-targeted dining room LPG.

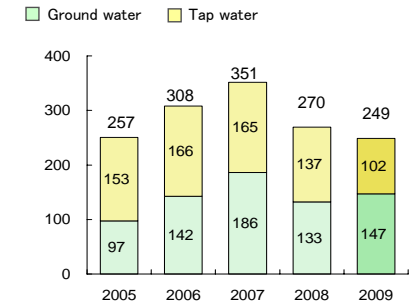
■ Industrial Waste (unit: tonne)



■ Volatile Organic Compound (VOC) Emissions (unit: kg)



■ Water Usage (unit: km³)



■ Electrical Power Consumption (unit: MWh)

