

# ENVIRONMENTAL REPORT FY2009



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This is the report on the organizations in Japan that is under our  
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 FY2008, the period from April 1, 2008 to March 31, 2009, with the data reflecting the actual results for that period. The report also includes our approaches and targets for FY2009, the period from April 1, 2009 to March 31, 2010. FY2009 approaches and targets include uncertainty. We ask our reader's understanding of the fact that we cannot be responsible for such eventualities.

■ Top Message



Nobutake Matsumura  
President and  
Representative Director

Society's expectations of enterprises include the responsible performance of their role in building a society with a sustainable global environment. Ever since its foundation, the Fujitsu Group's thinking on environmental management has been based on manufacturing in harmony with Nature. Based on this concept, we are committed to environmental protection activities in all sectors of our business. This is done in conjunction with our goals of satisfying our customer's requirements.

The increasing severity of global environmental problems, among which the need to arrest global warming is surely the most urgent for all nations, enterprises and individuals, who need to take this problem as their own.

Worldwide consideration is being given to the proposal that arresting global warming will mean setting the target of more than 80% reduction on all developed nations and 50% reduction worldwide by 2050 the discharged volume of gases, such as CO<sub>2</sub>, that have a global warming effect. If this is to be achieved without calling for serious financial sacrifices, it will undoubtedly require innovations, from revolutionary new technologies, through new systems of control, to structural market reforms, all with major influences on society. We have been proceeding in our business activities to meet the market needs such as "Much lighter, more compact" and "Less power consumption" since 1970s with our components. With such experiences, we believe Fujitsu component which is located in the middle of the supply chain can play an important roll in creating such innovations.

We published FUJITSU COMPONENTS' GROUP MISSION in 2007 with aim of further improvement on the products for our customers and the contribution to the society and environment in a timely manner. Also we have started *the 4th Stage of Fujitsu Components Group's Environmental Protection Program* since 2007 and have been working to achieve set up plans which call for reducing the hazardous substances and all activities from development to launch of Super Green Products which carry top class environmental characteristics.

FUJITSU COMPONENTS GROUP, seeing global warming as the most serious issue that we face in the 21st century, is fully aware of the role we must play as components manufacturer in addressing it. Environmental management will be a mainstay of management strategy, and we are determined to contribute to ensure the sustainable society keeping in line with Fujitsu Group's concept "Green Policy 21".

**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.



Haruo Mochizuki  
Senior Representative EMS  
Senior Member of the Board

## ■ Environmental Policy, Environmental Program

Based on the statement of "contribution to the environment and society" in the Group Mission, the realization of low-carbon society and environmental protection has been set as a top management priority to deliver the beautiful global environment for future generations, we have are dedicated to conduct our business activities continuously and in a timely manner by providing clean environmental policy and setting goals by referring the Fujitsu Group's environmental approach *Green Policy 21*.

### ■ Group Environmental Policy

(Established on April 24, 2008, Senior Representative EMS: Haruo Mochizuki, Senior Member of the Board)

Fujitsu Components' Group (hereunder "the Group") recognizes the value and importance of protecting the global environment as one of the most important issue facing mankind. Our environmental philosophy is: *We shall adapt our corporate activities to improve our coexistence with the environment.* As an enterprise that develops, designs, manufactures and sells electro-mechanical components, we promote environmental management in accordance with ISO14001.

1. We promote environmental protection and continuously work to improve our environmental management programs.
2. Our products, services and other corporate activities comply with the environmental regulations.
3. We conduct the following major environmental activities:
  - ✓ Promote the purchase of Green Products (eco-friendly products) throughout the supply chain.
  - ✓ Provide the most advanced eco-friendly products, so called "Super Green Products", by considering the environmental impact from the Research and Development, and Design stage.
  - ✓ Continue the complete ban of hazardous substances in our products as specified by the Group. We do not use or include any hazardous substances in our products, nor do we discharge any hazardous substances into the environment.
  - ✓ Reduce CO<sub>2</sub> generated by energy consumption.
  - ✓ Reduce emissions of volatile organic compounds (VOC).
  - ✓ Further reduce the total amount of waste generated.

We promote the environmental management through our Environmental Protection Policy. This policy is documented and made public to our employees, our group members and other parties concerned.

### ■ The 4th Stage of Fujitsu Components Group's Environmental Protection Program

(Established on May 11, 2004, revised on May 24, 2008)

Fujitsu Components Group established the Environmental Programs to provide concrete objectives for implementing environmental policies.

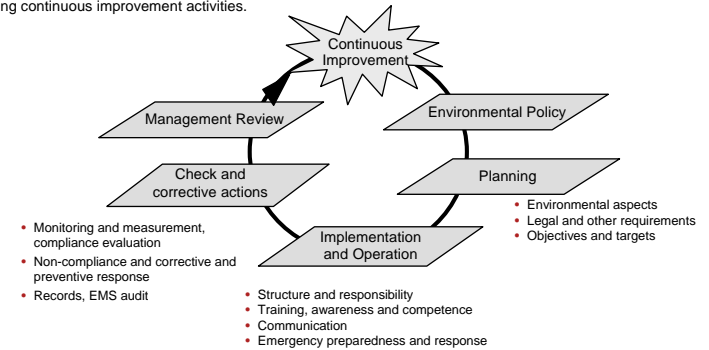
1. Increase offering of Eco-Friendly Products
  - ✓ Increase the number of so-called Super Green Products (environmentally more friendly products), which carry top-class environmental characteristics by at least 20% of all, newly developed Green Products in the Group by the end of FY2009.
  - ✓ Achieve Factor 1.2 eco-efficiency for Green Products that are part of the newly developed Thermal Printers by the end of FY2009 compared to products developed in FY2005. (Please refer to P.8 for eco-efficiency factor)
2. Global Warming Countermeasures and Environmental Activities in our Business Offices
  - ✓ Reduce CO<sub>2</sub> emissions created by energy consumption not exceeding 106% the FY2005 level (17,213t-CO<sub>2</sub>) by the end of FY2010.
  - ✓ Reduce emissions of volatile organic compounds (VOC) 22% below the FY2005 level (17,110kg) by the end of FY2009.
  - ✓ Reduce generation of waste not exceeding 103% the FY2005 level (956.5t) by the end of FY2009.
3. Reinforcing Risk Management
 

To reinforce environmental measures throughout the supply chain:

  - ✓ Support to improve supplier's environmental management system (EMS).
  - ✓ Support to improve supplier's environmental hazardous substances management system (CMS).
4. Environmental and Social Contribution
  - ✓ Promote environmental activities in local communities.
  - ✓ Each business office shall contribute to social activities in their local community at least once a year.

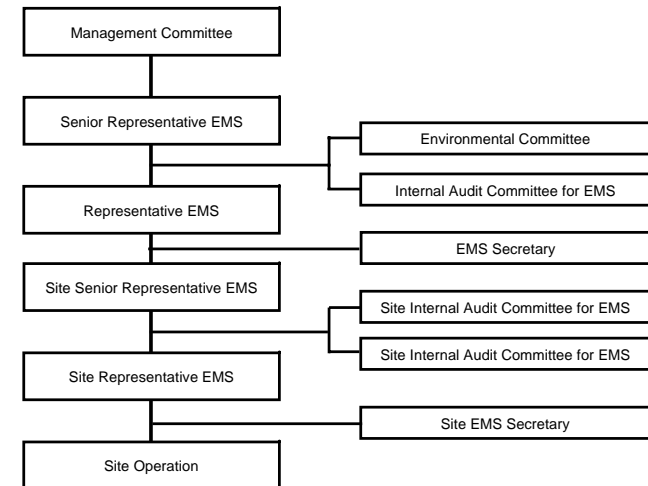
## ■ Environmental Management System

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



### ■ Organization of Environmental Activities

Senior Representative EMS, who controls overall group activities, is set up under the Management Committee. Environmental Committee and Internal Audit Committee for EMS directly supporting the Senior Representative 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 the Fujitsu Group, we conduct activities in corporation with the Fujitsu Group's environmental organization.

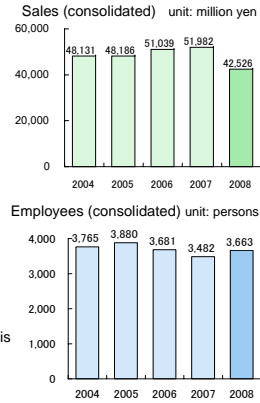


Note) Japanese 6 sites: Head Office Area, Engineering & Development Center, Shinano Fujitsu Limited, Miyazaki Fujitsu Components Limited, Chikuma Tsushin Industry Co.,Ltd., Takamisawa Electric Co.,Ltd. Shinshu Plant. Tochigi Tec Co.,Ltd. used to work as a site until end of FY2008 but was reorganized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

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

■ Group Profile

- Head office FUJITSU COMPONENT LIMITED
- Address 3-5 Higashi-Gotanda 2-chome, Shinagawa-ku, Tokyo 141-0022, Japan
- President Nobutake Matsumura
- 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 end of July 2009)
- Sales 42,526 million yen (consolidated FY2008)
- FY Year-End March 31
- Employees 3,663 consolidated (as of March 2009)
- 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 company 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) (As of March 2009)

Site	Location	Employees	Business Activities
FUJITSU COMPONENT LIMITED Engineering & Development Center	Suzaka-shi, Nagano	334	Development of design of relays, touch panels, thermal printers, keyboards, KVM switches. Manufacturing of touch panels (Shinano Fujitsu Limited)
SHINANO FUJITSU LIMITED	Iiyama-shi, Nagano	603	Manufacturing of connectors, thermal printers, keyboards, KVM switches and printed-board-mounting parts
MIYAZAKI FUJITSU COMPONENT LIMITED	Nichinan-shi, Miyazaki	280	Manufacturing of relays
CHIKUMA TSUSHIN INDUSTRY CO.,LTD.	Saku-shi, Nagano Nagano-shi, Nagano	181	Manufacturing of relays and their parts
TAKAMISAWA ELECTRIC CO.,LTD. Shinshu Plant	Saku-shi, Nagano	64	Manufacturing of relays and their parts
FUJITSU COMPONENT LIMITED Head office area	Shinagawa-ku, Tokyo Nagoya-shi, Aichi Osaka-shi, Osaka Nasushiobara-shi, Tochigi	207	Development and design of connectors, group management, sales of products

Note) Fujitsu Component Limited Head Office Group includes Tokai (Aichi) and Osaka (Osaka) sales office, TEC Co.,Ltd. (a sales subsidiary). Kyusyu sales office (Fukuoka) takes activity under Fujitsu Limited Kyusyu sales office.  
 Note) Chikuma Tsushin Industry Co.,Ltd. includes Togakushi Denshi Co., Ltd. From July 2009, Tochigi Tec Co.,Ltd. Manufacturing dept. moves under Shinano Fujitsu Limited, and head-office under Fujitsu Component Limited Head Office Group respectively.

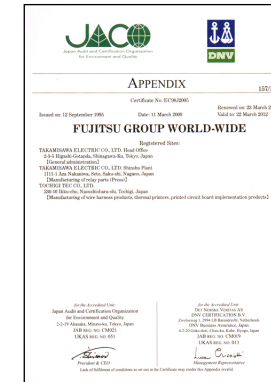
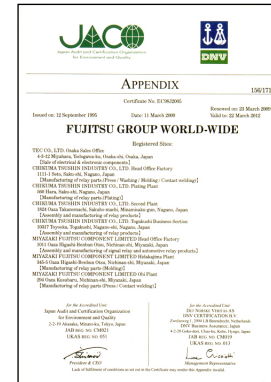
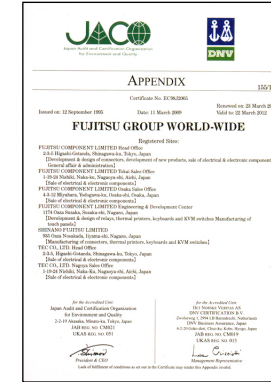
■ Independent Environmental Management Applicable Sites

Site	Location	Business Activities	ISO14001:2004 status
FUJITSU COMPONENT (MALAYSIA) SDN. BHD.	Johor, Malaysia	Manufacturing of relays and keyboards	Organization: SIRIM International QSA Sdn.Bhd. Number: F00440001 Validity: July 27, 2010
FUJITSU COMPONENTS (CHANGZOU) CO.,LTD.	Changzou, China	Manufacturing of relays	Organization: CHINA QUALITY CERTIFICATION CENTRE Number: 00108E22105R1M/3200 Validity: April 28, 2011
QINGDAO KOWA SEIKO CO.,LTD.	Qingdao, China	Manufacturing of relays	Organization: CHINA QUALITY CERTIFICATION CENTRE Number: 00109E20468R0M/1100 Validity: June 12,2010

■ Equity Method Affiliate

Site	Location	Investment Ratio	Business Activities	ISO14001:2004 status
TRANSTOUCH TECHNOLOGY INC.	Tao-yuan, Taiwan	21.0%	Manufacturing of touch panel	Organization: SGS UNITED KINGDOM LTD. Number: TW06/00917EM Validity: March 2, 2009

■ ISO 14001 Certificates



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



FUJITSU COMPONENT (MALAYSIA) SDN. BHD.

FUJITSU COMPONENTS (CHANGZOU) 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 have been implementing environmental assessments for products and positioning the products that complies with the regulations as "Green Products". All products newly designed from FY2004 shall be complied with the regulations. 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.

Note1) 3R design : Design based on the principles of Reduce, Reuse and Recycle.  
 Note2) Super Green Products are approved by Fujitsu Limited, the head of Fujitsu Group.

In FY2008, 10 products were approved as Super Green Products; 2 relays, 3 connectors, 2 thermal printers, one each from keyboards, touch panels and KVM switches.

Product	Series or part-number	Features
Relay	FTR-F1L series	The highest shock resistance in the market (10G, twice of other companies' equivalents) Latching relay keeping its status without continuous energy supply.
	FTR-F3P series	The lowest profile TV-5 rating relay in the market (7mm) Reduced volume by 35% from conventional products.
Connector	10Gbps test board	Market's first test board that measures 10Gbps signals. 3R design, coaxial connectors are screwed on the board
KVM	IP-remote power controller (FX-5104N1)	Market's first remote power controller that controls ON/OFF depending on the amount of electric energy. Configurable power supply ON/OFF threshold by 1W.

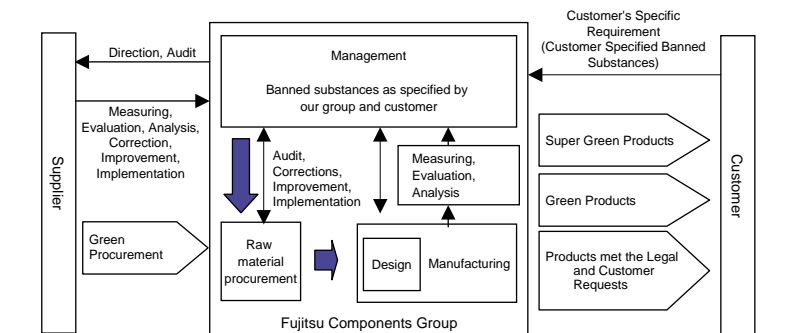
#### Reducing Product Environmental Load by Using the eco-efficiency factor

In FY2007, we introduced the eco-efficiency factor, which divides increases in product value by reductions in its environmental load, to evaluate environmental efficiency. We set a target of factor "1.2" in thermal printers comparing to FY2005 products and achieved factor "2.89" in FY2008. We will apply the eco-efficiency factor to all products in FY2009 and will continue to work for improving in environmental performance.

Note) Increases in product value : Difference ratio in performance or function such as basic specifications between new and old products.  
 Reductions in product environmental load : The difference ratio in CO<sub>2</sub> emission throughout product's life cycle between new and old products. (Please refer to boxed article on P.9)

#### 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 and not emit".



Laws and regulations, industrial regulations : RoHS and ELV directive, Industrial Associations' regulations, customers' specific requirements

### ■ Response to Recent Environmental-Related Regulations

We have been requesting information disclosure throughout the supply chain and working on to build up database to respond to REACH. We have started preparation for Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc. issued in May 2009.

### ■ Global Warming Countermeasures

We have set the goals for annual CO<sub>2</sub> emissions from energy consumption of holding emission levels to less than 106% of FY2005 by end of FY2010. Though increase of CO<sub>2</sub> emission is estimated from business growth in future, we work toward the achievement of the targets by replacing manufacturing facility focusing on energy-saving measures and others including measures that can be performed by each employee, such as proper settings for office air conditioning, energy-saving of lightings and office automation equipment. In FY2008, we focused on energy-saving of motivity-equipment, for example, introducing power supply monitor. We will continue to make effort towards the realization of energy-efficient production process in FY2009.

### ■ Chemical Substances Measurement

Since FY2007, we have been pursuing the target of reducing volatile organic compound (VOC) emissions by 22% from FY2005 levels by the end of FY2009. We implemented replacement/reduction of ethanol and so forth in FY2007, and we formulated VOC volatilization prevention measures in FY2008. We will continue to make effort towards limiting the inflow and outflow of them.

### ■ Waste Management

In FY2005, we achieved the target of zero-emission by stopping landfill and simple incineration and 100% effective reutilization of waste materials, and have kept up the effort ever since. We added the value on waste by segregation.

In FY2008, Engineering & Development Center reutilized plastic waste by segregation, Shinano Fujitsu Limited reutilized wastes by decomposition/crush/segregation. We will continue to make an effort towards improving reutilization of waste materials.

### ■ Compliance and Prevention of Environmental Pollution

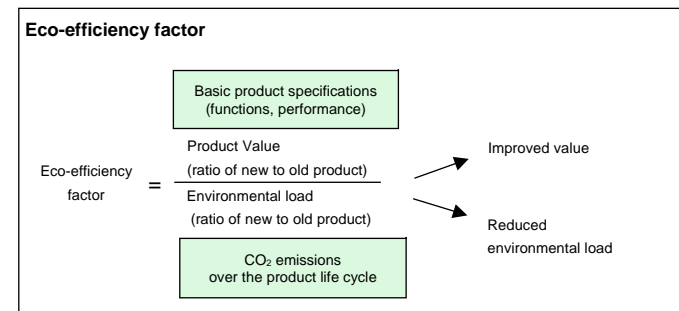
We pick up major environmental aspects at each site, recognize management status of exhaust/drainage system to prevent pollution in the Environmental Management System. Takamisawa Electric Co.,Ltd. Shinshu Plant continues soil cleanup and monitoring at observation well since chlorine organic compound exceeding legal threshold was found by our voluntary check in 1998. We will keep cleaning and monitoring in FY2009.

### ■ Environmental Contributions to Society

Every single employee contributes to their local community through activities that make environmental contributions to society in accordance with the principles of "conduct well-planned business activities with taking care of the environment". In FY2008, each site conducted at least one activity such as PET bottle cap recovery, cleanup activities in the surrounding area, planting trees in the facility, etc. We will keep conducting locally attuned activities in FY2009.

### ■ Environmental Education and Enlightenment

We consider that it is essential to have cooperation in all areas in supply chain to reduce the environmental load and have been asking and supporting (1) all suppliers to construct environmental management system (EMS), and (2) material business partners to construct chemical substances management system (CMS). As in-house education, we provide systematic education concerning global warming countermeasures and hazardous substances management and so on.



## FY2008 Targets and Achievements (Group Total)

### FY2008 Targets and Achievements (Group Total)

The 4th Stage Environmental Protection Program				
Item	Targets	Targets (FY2008)	Performance (FY2008)	Status
Increase Offering of Eco-Friendly Products	Increase the number of Super Green Products, which carry top-class environmental characteristics, by at least 20% of all newly developed Green Products in the Group by the end of FY2009.	Targeting the Green Products being developed in FY2007 and FY2008, increase the number of Super Green Products by at least 20% of all.	10 products were approved as Super Green Product in FY2008. Throughout FY2007-2008, 14 products were Super Green Products from 39 Green products. (35.9%)	Done
	Achieve Factor 1.2 eco-efficiency for Green Products that are part of the newly developed thermal printers by the end of FY2009 compared to products developed in FY2005.	Achieve Factor 1.2 eco-efficiency in newly developed printers.	Achieved "2.89" (FTP-6XA series)	Done
Global Warming Counter-measures and Environmental Activities in our business sites	Reduce CO <sub>2</sub> emissions created by energy consumption not exceeding 106% the FY2005 level (17,213t-CO <sub>2</sub> ) by the end of FY2010.	Hold down to below 106% the FY2005 level, i.e. 18,245t-CO <sub>2</sub> . (Reduction by 1.8% from the FY2007 level).	16,406t-CO <sub>2</sub> (Reduced 4.6% from FY2005 levels by replacement with energy saving motor equipment etc.)	Done
	Reduce VOC emissions 22% below the FY2005 level (17,110kg) by the end of FY2009.	Reduce by 18% from the FY2005 level, i.e. 14,030kg. (Reduction by 14.7% from the FY2007 level).	12,240kg (Reduced 28.4% from FY2005 levels by implementing volatilization prevention measures etc.)	Done
	Reduce generation of waste not exceeding 103% the FY2005 level (956.5t) by the end of FY2009.	Hold down to below 103% the FY2005 level, i.e. 985t (Increase 1.2% over the FY2007 level).	896.8t (Reduced 6.2% from FY2005 levels by reutilization of waste etc.)	Done
Reinforcing Risk Management	Support to improve supplier's environmental management system (EMS) to reinforce environmental measures throughout the supply chain.	Construct operation level II EMS for 90% of material business partners.	91%	Done
	Support to improve supplier's environmental hazardous substances management system (CMS) to reinforce environmental measures throughout the supply chain.	Construct a rank A, B CMS for 88% of material business partners.	94%	Done
Environmental and Social Contribution	Promote environmental activities in local communities, and each business sites shall contribute to social activities in their local community at least once a year.	Implement contributions to society at least one in a year at each business site.	21 activities (more than one at each business site)	Done

### Status of Environmental Compliance

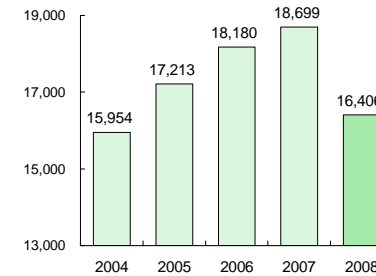
We found some insufficiencies, such as insufficient management system for fluorocarbons under *Act for Protection of the Ozone Layer through Regulation of Designated Substances, etc.*, incomplete contract missing name of storage area and the documents name to be delivered to water disposer under *Waste Management Law*, by our self-audit in FY2008 and took corrective actions. We keep working on soil cleaning for chlorine organic compound found at Takamisawa Electric Co., Ltd. in 1998. None of the site received administrative directions or complaints from neighbors. For each site's status of compliance, please refer to the details from page 12.

### FY2009 Targets (Group Total)

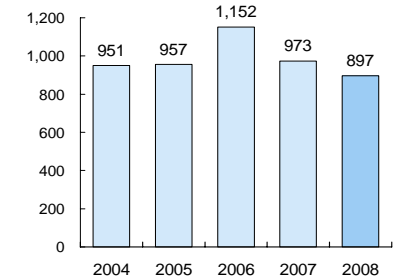
The 4th Stage Environmental Protection Program (FY2009)		
Item	Targets	Targets (FY2009)
Enhancement of Super Green Products	Targeting the Green Products being developed in FY2007 onward, increase the number of Super Green Products by at least 40% (*) of all by the end of FY2009.  (* We set higher target since original target 20% was cleared. Result in FY2008 was 35.8%).	Targeting the Green Products being developed during FY2007 to FY2009, increase the number of Super Green Products by at least 40% of all.
Achievement of eco-efficiency factor	Achieve Factor 1.2 eco-efficiency for Green Products in each product being newly developed by the end of FY2009.	Achieve Factor 1.2 in each product being newly developed.
Reduction of energy consumption-related CO <sub>2</sub>	Hold down CO <sub>2</sub> emissions to below 106% the FY2005 level (17,213t-CO <sub>2</sub> ) by the end of FY2010.	Reduce by 9.0% from the FY2005 level, i.e. max. 15,648.2t-CO <sub>2</sub> . In other words, reduce by 4.6% from the FY2008 level (16,406t-CO <sub>2</sub> )
Reduction of VOC	Reduce VOC emissions 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 to 102.4% the FY2008 level (12,240kg).
Reduction of waste generation	Hold down waste generation to 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).
Promotion of Green Procurement Activities	Support to improve our business partner's EMS to reinforce environmental activities throughout the supply chain.	Achieve an operate a level II EMS with all material business partners.
	Support to improve our business partner's CMS to reinforce environmental activities throughout the supply chain.	Achieve a rank A,B CMS with all material business partners.
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 one in a year.	Implement contributions to society at least one per year at each business site.

## Environmental Load Data (Group Total)

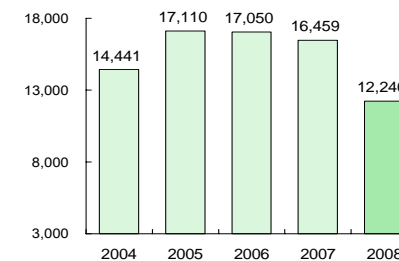
### CO<sub>2</sub> Emissions (unit: t-CO<sub>2</sub>)



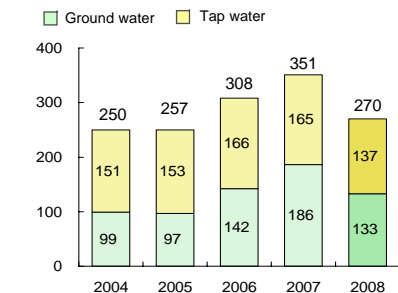
### Industrial Waste (unit: tonne)



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



### Water Usage (unit: km<sup>3</sup>)



### Electrical Power Consumption (unit: MWh)

