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# ENVIRONMENTAL REPORT FY2011

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

**FUJITSU COMPONENT LIMITED**

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This report primarily focuses on the efforts, and accomplishments for FY2010, the period from April 1, 2010 to March 31, 2011, with the data reflecting the actual results for that period. The report also includes our approaches and targets for FY2011, the period from April 1, 2011 to March 31, 2012. FY2011 approaches and targets include uncertainty. We ask our reader's understanding of the fact that we cannot be responsible for such eventualities.

■ Top Message

■ Top Message



Koichi Ishizuka  
President and  
Representative Director

We, FUJITSU COMPONENTS GROUP, express our heartfelt sympathies to everyone affected by the Great East Japan Earthquake and the Northern Nagano Prefecture Earthquake in Mach 2011. We sincerely pray for the swift recovery from the disaster.

The concern over nuclear power resulting from the damage on Fukushima nuclear power plant after the earthquake, the nuclear power generation is now re-evaluated with Life Cycle Assessment worldwide, and it accelerates to promote utilization of renewable and alternative energies.

FUJITSU COMPONENTS GROUP believes that components, as a midstream of supply chain, shall play important rolls to achieve "sustainable environment and society" where renewable energy occupies an important place.

FUJITSU COMPONENTS GROUP positions the realization of the society good for environment and people as one of the top management priorities, and address the environmental management through greening of our business activities and providing components that will supports green solutions like energy-saving or natural energy.

As a component that supports green solutions, we developed Smart Power Strip and Gateway jointly with Fujitsu Laboratories Limited in FY2010 and launched them from this April for industrial use. Smart Power Strip incorporates miniature power sensors and outputs power consumption in 1W. Gateway enables the data to use through network. As a energy-saving product, we produced customized Console Drawer with power supply cope with 100VAC-240VAC power source which conforms to International energy Star Program Ver.5.0 technology. (Note) International Energy Star Program is an international labeling institution aiming at energy-saving of OA equipment.

FY2011 is the second year of the 5<sup>th</sup> Stage of Environmental Protection Program. We will challenge to apply environmental efficiency factor 1.2 or more (compared with FY2008) on all newly-developed products, aiming to provide the products that are more environmental-friendly and support acceleration of green systems.

Fujitsu Components Group recognizes roles and responsibility company must carry out towards environment and biodiversity conservatory, and contribute for realization of sustainable environment and society along with Fujitsu Group's *Green Policy 21*, *Green Policy 2020* and *Green Policy Innovation*.



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.



Smart Power Strip



Console Drawer

(Note) Photo of console drawer is of a standard product, which have same appearance with the custom drawer conform to International Energy Star Program Ver.5 Technology.

■ Environmental Policy, Environmental Protection Program

Placing the realization of low-carbon society and environment protection as one of top management priorities, we conduct business activities in a planned and consistent way based on Fujitsu Group *Green Policy 21*, 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 the 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 impacts from the research and development, and design stage.
  - Reduce CO<sub>2</sub> 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 employees, group members and other parties concerned.

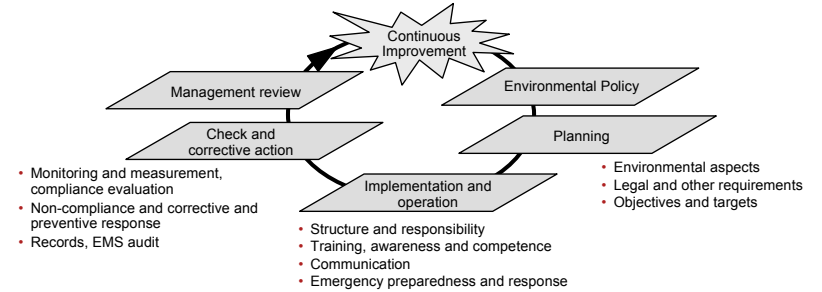
■ The 5<sup>th</sup> Stage Group Environmental Protection Program (Established on April 12, 2010, 2<sup>nd</sup> edition on April 8, 2011)

This Environmental Protection Program states the actual action plans to implement the 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 compared with the products development in FY2008.
2. Enhancement of Own Environmental Load Reduction Plan
  - Reduce CO<sub>2</sub> emission created by energy consumption not exceeding 18,200t-CO<sub>2</sub>, 20% reduction from the FY2000 level (22,777t-CO<sub>2</sub>), by the end of FY2012.
  - All materials shall be procured from the supplies who have target program to reduce CO<sub>2</sub> emission by the end of FY2012.
  - Reduce priority chemicals specified by each business unit not exceeding 6,510kgs, 28% reduction from the level of FY2007(9,038kgs) by the end of FY2012. (Note) Reduction value was reviewed in 2<sup>nd</sup> edition.
  - Reduce generation of wastes 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.

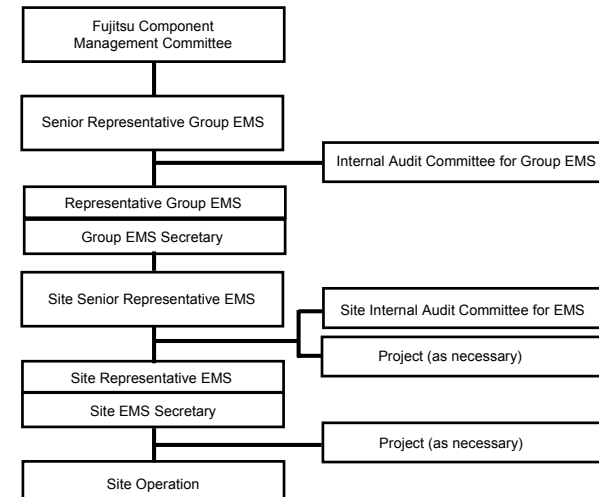
■ Environmental Management System

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.



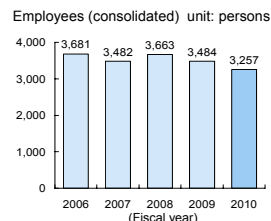
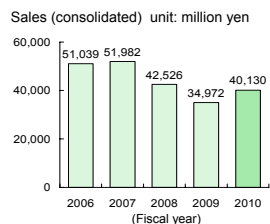
Note 1) Japanese 6 sites : Head Office, Engineering & Development Center, SHINANO FUJITSU LIMITED, MIYAZAKI FUJITSU COMPONENTS LIMITED, CHIKUMA TSUSHIN INDUSTRY CO., LTD., TAKAMISAWA ELECTRIC CO., LTD. Shinshu Plant.

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 Manufacturing and sales 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, 2011)  
 Sales 40,130 million yen (consolidated, FY2010)  
 Financial year end March 31  
 Employees 3,257 (consolidated, as of end of March 2011)  
 Equity Market Second Section of the Tokyo Stock Exchange, code 6719  
 Group Composition The Group is composed of total 13 companies; 6 Japanese companies including 1 sales company, and 7 overseas companies including 5 sales companies. 1 overseas company is nonconsolidated subsidiary. (please refer to P.27)



■ Environmental Management Applicable Sites

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

Site	Location	Employees	Business Activities	ISO14001:2004 status
FUJITSU COMPONENT LIMITED Engineering & Development Center	Suzaka-shi, Nagano	310	Development and design of Fujitsu Component's products. Manufacturing of touch panels (Shinano Fujitsu Limited)	Organization: Japan Audit and Certification Organization for Environment and Quality (JACO) Number: EC98J2005 D600 Validity: March 22, 2012
SHINANO FUJITSU LIMITED	Iiyama-shi, Nagano	577	Manufacturing of Fujitsu Component's and customized printed boards.	
MIYAZAKI FUJITSU COMPONENTS LIMITED	Nichinan-shi, Miyazaki	528	Manufacturing of relays	
CHIKUMA TSUSHIN INDUSTRY CO., LTD.	Saku-shi, Nagano	140	Manufacturing of relay parts	
TAKAMISAWA ELECTRIC CO., LTD. Shinshu Plant	Saku-shi, Nagano	52	Manufacturing of relay parts	
FUJITSU COMPONENT LIMITED Head office	Shinagawa-ku, Tokyo Nagoya-shi, Aichi Osaka-shi, Osaka	223	Development and design of wireless module, group management, sales of products	

Note 1) Employees in each sites are as of March 31, 2011.

Note 2) Fujitsu Component Limited Head Office Group includes Tokai (Aichi) and Osaka (Osaka) sales office and TEC Co., Ltd.

Note 3) Kyusyu sales office (Fukuoka) takes activity under Fujitsu Limited Kyusyu sales office.

■ 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: ER 0124 Validity: July 27, 2013
FUJITSU COMPONENTS (CHANGZHOU) CO., LTD.	Changzhou, China	Manufacturing of relays	Organization: CHINA QUALITY CERTIFICATION CENTRE Number: 00111E20514R2M/3200 Validity: April 24, 2014
QINGDAO KOWA SEIKO CO.,LTD.	Qingdao, China	Manufacturing of relay parts	Organization: CHINA QUALITY CERTIFICATION CENTRE Number: 00110E20300ROM/3700 Validity: February 8, 2013

Note) TRANSTOUCH TECHNOLOGY INC. went out of our equity method affiliate as of the end of March, 2011.

■ Topics of Environmental Activities

■ Topics of Environmental Activities

■ Development of Eco-friendly Products

■ Green Products, Super Green Products

As a member of Fujitsu Group, we promote development of eco-friendly products throughout product life cycle, and oblige newly developed products to be *Green Product*, which complies with environmental assessment. In addition, the products at the top class in terms of environmental element are positioned as *Super Green Product*.

We raised applicable criteria from FY2010; focusing more on energy-saving along with other top class environmental elements. We promote development of higher environmental-friendly products.

Note1) Super Green Products are approved by Fujitsu Limited, the head of Fujitsu Group.

■ Super Green Products in FY2010

In FY2010, 3 products were approved as Super Green Products. Here is the list of approved products.

Product	Series/Product name	Features
Relay	FTR-K3L	<ul style="list-style-type: none"> <li>Latching relay, no standby power</li> <li>Lead free soldering</li> <li>No REACH object substance contained (as of the end of March, 2011)</li> </ul>
KVM Switch	Drawer (custom)	<ul style="list-style-type: none"> <li>Reduced power consumption at work by 36%</li> <li>Reduced power consumption at stand-by by 80%</li> <li>Lead free soldering</li> <li>International Energy Star Program Ver.5.0 technology approved (category: display)</li> </ul>
Wireless Module	MBH7WLZ23	<ul style="list-style-type: none"> <li>Reduced power consumption at stand-by by 41%</li> <li>Miniaturization in top level</li> <li>Halogen free printed circuit board</li> </ul>



Drawer

Photo: FD-5200 series, which has same appearance with the Super Green Product.

■ Reducing Product's Environmental Load by Using the Eco-efficiency Factor

We introduced Eco-efficiency factor in FY2007. We achieved factor 1.2 or more on Thermal printer in FY2008 and one item from major 6 products in FY2009 compared with FY2005 products. In FY2010, we established calculation method on 7 major products and set a target to achieve factor 1.2 compared with FY2005 products. We will conduct evaluation based on the criteria on all newly-developed products.

Note) Eco-efficiency factor is an environmental criterion that is able to evaluate improvement of product value and reduction of environmental load in quantitative form.

$$\text{Eco-efficiency factor} = \frac{\text{Specification, characteristic, function} \times \text{Product value (comparison b/w old and new products)}}{\text{Environmental Load (comparison b/w old and new products)}}$$

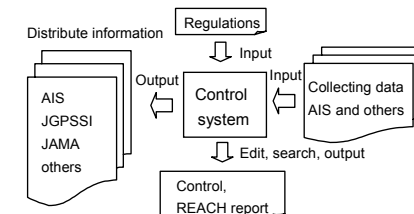
Numerator: improvement of product value

Denominator: reduction of environmental load

■ Management of the Restricted Chemical Substances in Products and REACH Regulation <sup>(Note 1)</sup>

We have specified banned chemicals to contain/use and controlled chemicals, and have confirmed that the contained chemicals in the procuring parts and/or shipping products are under the threshold.

To deal with REACH regulation, we are collecting data for article information sheet (AIS) proposed by Joint Article Management Promotion-consortium (JAMP). We will start new system that can correspond to all major data format within FY2011 for better response to laws and customer requirements. We will increase efficiency of related services by this change.



Note 1) REACH regulation: Registration, Evaluation Authorization and Restriction of Chemicals implemented in Europe.

■ Topics of Environmental Activities

■ Green Procurement

We have been asking supply chain partners (1) to establish environmental management system, (2) to comply with regulations about specified chemicals, (3) to establish a system to control chemicals contained in products, in addition, from FY2010, (4) to reduce CO<sub>2</sub> emissions, (5) to make effort on biodiversity conservatory.

We provided "Standard for Green Procurement" to all partners and conducted briefing session in Kawasaki and Nagano area to instill the policy. We conducted research especially for the efforts start from FY2010, reduction of CO<sub>2</sub> emissions and biodiversity conservatory, and confirmed that more than 60% of material partners had took action. We plan to conduct individual sessions and workshops for realization of all material partners' effort by end of FY2012.

We also conduct regular check on operational situation of contained chemicals control system, which material partners had established, to improve the level of management system not to contain any hazardous substance in the products.

■ Priority Chemicals Management

Each site settled the priority chemicals to be reduced, and reduced its air emissions.

We worked to reduce air emissions of isopropyl alcohol (IPA) and ethanol out of volatile organic compounds (VOC) which relates to *Air Pollution Control Act*. With the approval of customers along with verification of product quality and cost, we took actions like replacement of solvent cleaning by pure-water cleaning, re-examination of cleaning frequency, gasket sealing on lid of equipment to prevent volatilization etc.

There are some products difficult to take such actions. We will continue to investigate and study for them in FY2011 onward.

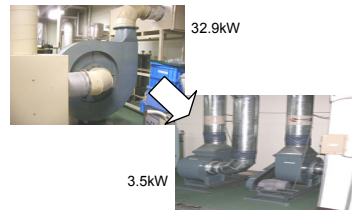
■ Global Warming Countermeasures

The Group is always aware of energy-saving and resource saving and implement measures. The Great East Japan Earthquake on March 11, 2011 forced a change in Japanese energy policy; further countermeasures for saving electricity becomes critical matter in addition to existing global warming countermeasures.

We will sustain an inventive approach for further energy-saving in FY2011.



Improvement of air conditioner efficiency by watering on roof

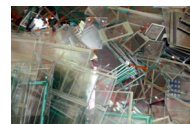


Saving electricity by dispersion of exhauster (MIYAZAKI FUJITSU COMPONENTS LIMITED)

■ Waste Management

We have studied economic feasibility of recycle and reuse continuously and started recycling of waste plastics. We will continue study on reuse and extraction of rare metals from recycling glasses, waste liquid/sludge from plating process and other wastes.

As an fundamental reduction of waste, we are working to optimize loading materials from design/development stage and to reduce failure rate in production process.



Glass wastes

■ Compliance and Prevention of Environmental Pollution

Each factory and sales office collects information about applicable laws and ordinances regularly and identify the laws we should comply with. In addition, each site checks compliance situation based on evidence materials and confirms that there is no violation of the applicable laws.

Fujitsu Components Group set qualified persons required by applicable laws, fostering of qualified persons, and established a qualification acquisition plan at the beginning of the fiscal year to improve the level of compliance manager for fair administration of laws. In FY2010, we set qualified persons and energy-saving and persons trained in practical business of noise/vibration/air/water management in Engineering & Development Center to improve management level. We plan to get a qualification corresponding to energy-saving laws and *Waste Management and Public Cleansing Act* in FY2011.

With the effectuation of *Energy Saving Act* revised in 2009, FUJITSU COMPONENT LIMITED, SHINANO FUJITSU LIMITED and MIYAZAKI FUJITSU COMPONENTS LIMITED are assigned as a specified corporation, an objective company who should manage the reduction on a whole corporate level, as of Oct. 1, 2010. We selected and registered an Energy-management Supervisor at executive-level and Energy-management-plan Promoters who is qualified in energy management. Based on the law, Fujitsu Components Group starts effort for energy-saving in consideration of reduction management throughout whole group, not by each single site, in FY2011.

Concerning excess chlorinated organic compounds found in 1998 by our self-inspection at TAKAMISAWA ELECTRIC CO., LTD. Shinshu Plant and CHIKUMA TSUSHIN INDUSTRY CO., LTD., we have been keeping soil cleaning and report to government committee, and we confirmed that there is no complaint from neighborhood.

Hydrogen-ion concentration in sewer water temporary exceeded our voluntary control value at MIYAZAKI FUJITSU COMPONENTS LIMITED Head Office. We have treated it by adjustment of operating time of sewage treatment tank blower. We confirmed that there was no influence on neighborhood.

Please refer individual site's report for details.

■ Environmental and Social Contribution

Each site took action depending on their situation, such as local cleanup activities, donation of vaccine through PET bottle cap collection, donation of used stamps for reforestation in Tanzania. Engineering & Development Center cultivated sweet potatoes as a measure of air conditioner usage saving in summer and donate them to the zoo. MIYAZAKI FUJITSU COMPONENTS LIMITED removed falling ash from public roads.



Local cleanup activity (TAKAMISAWA ELECTRIC CO., LTD. Shinshu Plant)

■ Efforts in Biodiversity Conservatory

Each site took action to the best of their ability, such as holding lectures on biodiversity conservatory, joining the lectures, animals/plants habitat inspection in the area, forest thinning operation, extermination of harmful alien plants, etc. CHIKUMA TSUSHIN INDUSTRY CO., LTD. participated "habitat distribution inspection of familiar creatures" hold by the government. MIYAZAKI FUJITSU COMPONENTS LIMITED conducted weeding without bug killer or chemical herbicides.



Joined habitat inspection of wild creatures (CHIKUMA TSUSHIN INDUSTRY CO., LTD.)

■ FY2010 Targets and Achievements (Group Total)

■ FY2010 Targets and Achievements (Group Total)

■ FY 2010 Targets and Achievements (First year of the 5<sup>th</sup> Stage -- Group Total)

Item	Aim	Target	Result	Status
Improvement of environmental value of products and services	More than 30% of newly developed Green Products shall be Super Green Products by the end of FY2012.	Develop min. 1 Super Green Products.	3 Super Green Products from 14 Green Products.	Done
	Establish calculation method of eco-efficiency factor and LCA, and achieve the factor of 1.2 on the newly designed Green Products compared with FY2008 products by the end of FY2010.	Establish calculation method of eco-efficiency factor and LCA and settle the factor value.	Achieved in all products.	Done
Enhancement of own environmental load reduction plan	Reduce CO <sub>2</sub> emission generated by energy use not exceeding 18,200t-CO <sub>2</sub> , 20% reduction from the FY2000 level (22,777t-CO <sub>2</sub> ), by the end of FY2012.	Hold it down to below 17,668t-CO <sub>2</sub> in the Group.	16,065t-CO <sub>2</sub> (Reduced 29.5% from FY2000)	Done
	Procure all materials from the suppliers who have a program to reduce CO <sub>2</sub> emission by the end of FY2012.	Conduct investigation on all suppliers.	100% (objective 133 suppliers)	Done
	Reduce priority chemicals specified by each business unit not exceeding 6,320kg, 30% reduction from the FY2007 result (9,038kg) by the end of FY2012.	Hold it down to below 6,959kg in the Group.	6,478kg (Reduced 28.3% from FY2007)	Done
	Reduce generation of waste not exceeding 875t, 10% reduction from the FY2007 level (973t), by the end of FY2012.	Hold it down to below 851t in the Group.	763t (Reduced 21.6% from FY2007)	Done
Promotion of environmental & social contribution activities	Contribute to social activities in local community at least once a year per site.	Implement min. 1 activity at each site.	13 activities (2 or more per site)	Done
Promotion of biodiversity conservatory activities	Provide the education of biodiversity conservatory for diffusion and edification at each site.	Implement min. 1 investigation for biodiversity conservatory activities at each site.	12 activities (more than 2 at each site)	Done
	All materials shall be procured from the suppliers who declare effort for biodiversity conservatory by the end of FY2012.	Conduct investigation on all partners.	100% (objective supplier : 118 )	Done

■ Status of Environmental Laws Compliance

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

■ FY2011 Targets (Second year of 5<sup>th</sup> Stage -- Group Total)

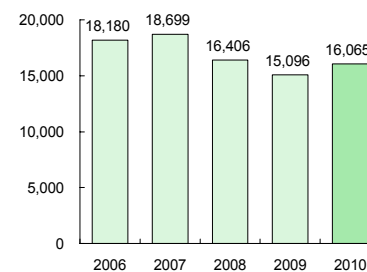
Item	Aim	Target
Improvement of environmental value of products and services	More than 30% of newly developed Green Products shall be Super Green Products by the end of FY2012.	Develop at least 7 Super Green Products.
	Establish calculation method of eco-efficiency factor and LCA, and achieve the factor of 1.2 on the newly designed Green Products compared with FY2008 products by the end of FY2010.	Achieve the eco-efficiency factor of min. 1.2.
Enhancement of own environmental load reduction plan	Reduce CO <sub>2</sub> emission generated by energy consumption not exceeding 18,200t-CO <sub>2</sub> , 20% reduction from the FY2000 level (22,777t-CO <sub>2</sub> ), by the end of FY2012.	Hold it down to below 17,248t-CO <sub>2</sub> in the Group.
	Procure all materials from the suppliers who have a program to reduce CO <sub>2</sub> emission by the end of FY2012.	Setting numerical target and take action at each site.
	Reduce priority chemicals specified by each site not exceeding 6,519kg, 28% reduction from FY2007 level (9,038kg) by the end of FY2012. <small>(Note1)</small>	Hold it down to below 6,687kg in the Group. (object: Ethanol, IPA)
	Reduce generation of waste not exceeding 875t, 10% reduction from the FY2007 level (973t), by the end of FY2012.	Hold it down to below 793t in the Group.
Promotion of environmental & social contribution activities	Contribute to social activities in local community at least once a year per site.	Implement min. 9 activities at each site.
Promotion of biodiversity conservatory activities	Provide the education of biodiversity conservatory for diffusion and edification at each site.	Implement min. 7 activities for biodiversity conservatory at each site.
	Procure all materials from the suppliers who declare effort for biodiversity conservatory by the end of FY2012.	Set numerical target and take action at each site.

Note 1) Reduction target of priority chemicals was reset downward from 30% to 28% in April 2011.

■ Environmental Load Data

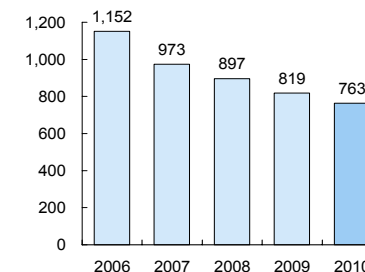
■ Environmental Load Data (Group Total)

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

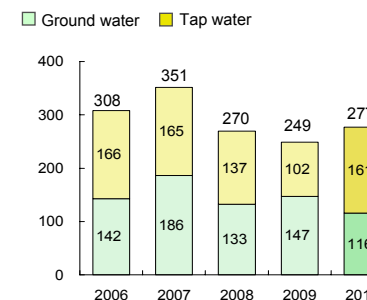


Note) Non-target LPG in cafeteria is included in FY2009.

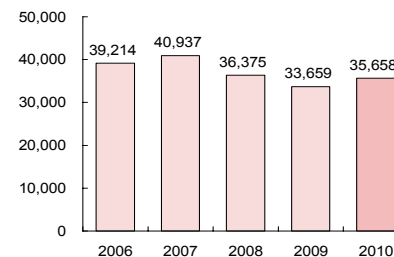
■ Wastes (unit: tonne)



■ Water Usage (unit: km<sup>3</sup>)

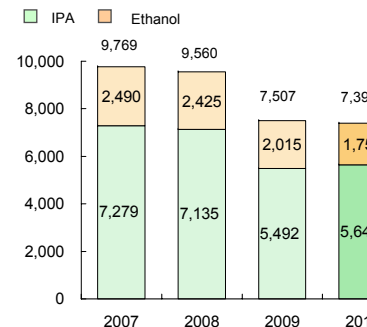


■ Electric Power Consumption (unit: MWh)



■ IPA and Ethanol Emissions (unit: kg)

Object: IPA and ethanol that annual usage at a site exceeds 100kg.



◆ Reference) Volatile Organic Compound (VOC) Emissions (unit: kg)

Activity target at 20 VOC substances, annual usage exceeds 100kg, was performed until FY2009. The target was changed to IPA and ethanol from FY2010.

