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ENVIRONMENTAL REPORT FY2012

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

FUJITSU COMPONENT LIMITED

Top Message	3
FUJITSU COMPONENTS' GROUP MISSION	
Environmental Policy, Environmental Protection Program	4
Group Environmental Policy	
The 5 th Stage Group Environmental Protection Program	
Environmental Management	5
Environmental Management System	
Organization of Environmental Activities	
Group Profile, Business Activities	6
Topics of Environmental Activities	7
Development of Eco-friendly Products and others	
FY2011 Targets and Achievements and FY2012 Targets/Environmental Load Data	10
Group Total	10
Details (1) Engineering & Development Center	12
Details (2) SHINANO FUJITSU LIMITED	14
Details (3) MIYAZAKI FUJITSU COMPONENTS LIMITED	16
Details (4) CHIKUMA TSUSHIN INDUSTRY CO., LTD.	18
Details (5) TAKAMISAWA ELECTRIC CO., LTD. Shinshu Plant	20
Details (6) Head Office	22
List of Super Green Products	24
Component Solution for Green Systems	25
(Reference) Fujitsu Group Environmental Policy	26
Contact	27

This report primarily focuses on the efforts, and accomplishments for FY2011, the period from April 1, 2011 to March 31, 2012, with the data reflecting the actual results for that period. The report also includes our approaches and targets for FY2012, the period from April 1, 2012 to March 31, 2013. FY2012 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 Ishizuka
President and
Representative Director

The electricity shortage, which is triggered by the accident of Fukushima nuclear power plant after the Great East Japan Earthquake last year, is concerned in this year, too. Electricity producers plan to extend the life of old power plants or restart the suspended power plants to cope with the shortage. Under those circumstances, it becomes more important to save electricity and energy and to generate more electrical energy through renewable energy sources in the view of reducing the environmental load and building the sustainable society.

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.

In FY2011, we launched two *Super Green Products* ^(Note1) into the market; FBR51 latching relay, which reduced CO₂ emission throughout its life cycle by 46% compared with our conventional products; ENERGY STAR[®] ^(Note2) qualified console drawer FD-5300 series, which reduced active power consumption by 23%, standby power consumption by 90% compared with our conventional products, as an extension of custom console drawer which was approved as a Super Green Product in FY 2010.

Note1) Super Green Products are approved by Fujitsu Limited under their own standard.

Note2) ENERGY STAR Program is an international labeling institution aiming at energy-saving of OA equipment.

FY2012 is the third year of the 5th 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*.

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.



Latching relay
FBR51 series



Console drawer
FD-5300 series

ENERGY STAR is a registered mark owned by the U.S. government.

■ Environmental Policy, Environmental Protection Program

■ **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** (8th revision on April 1, 2012, Senior Representative Group EMS)

Fujitsu Components Group (hereunder "the Group"), a member of Fujitsu Group, recognized the value and importance of protecting the global environment 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 offer the products contribute to achieve both environment and economy.
3. We comply with various environmental laws which involve our activities, products and services and other requirements we agree.
4. 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.
5. 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 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
6. Every staff shall strive to improve the environment including climate control and biodiversity conservatory through their work and as a citizen, and try to diffuse enlightenment.

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 Group Environmental Protection Program** (Established on April 12, 2010, 4th edition on April 4, 2012)

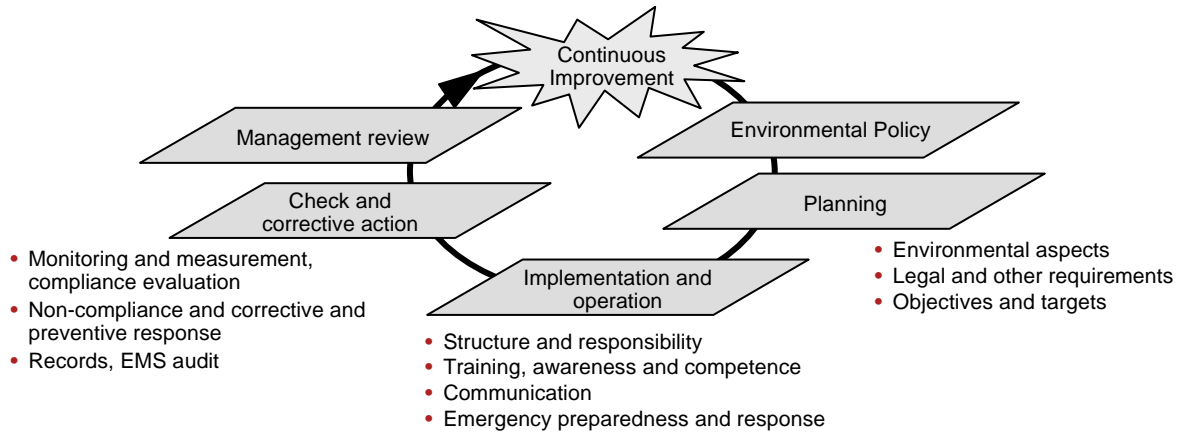
This Environmental Protection Program states the actual action plans to implement our group Environmental Policy and important control items and it is the medium term action plans to be achieved by FY2012.

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 environmental efficiency factor and LCA, and achieve the environmental efficiency factor of 1.2 on the newly designed Green Products by the end of FY2012 compare with the products developed 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 FY2012.
 - Reduce priority chemicals specified by each business unit not exceeding 7,200kgs, 20% reduction from the level of FY2007(9,038kgs) by the end of FY2012.
 - 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

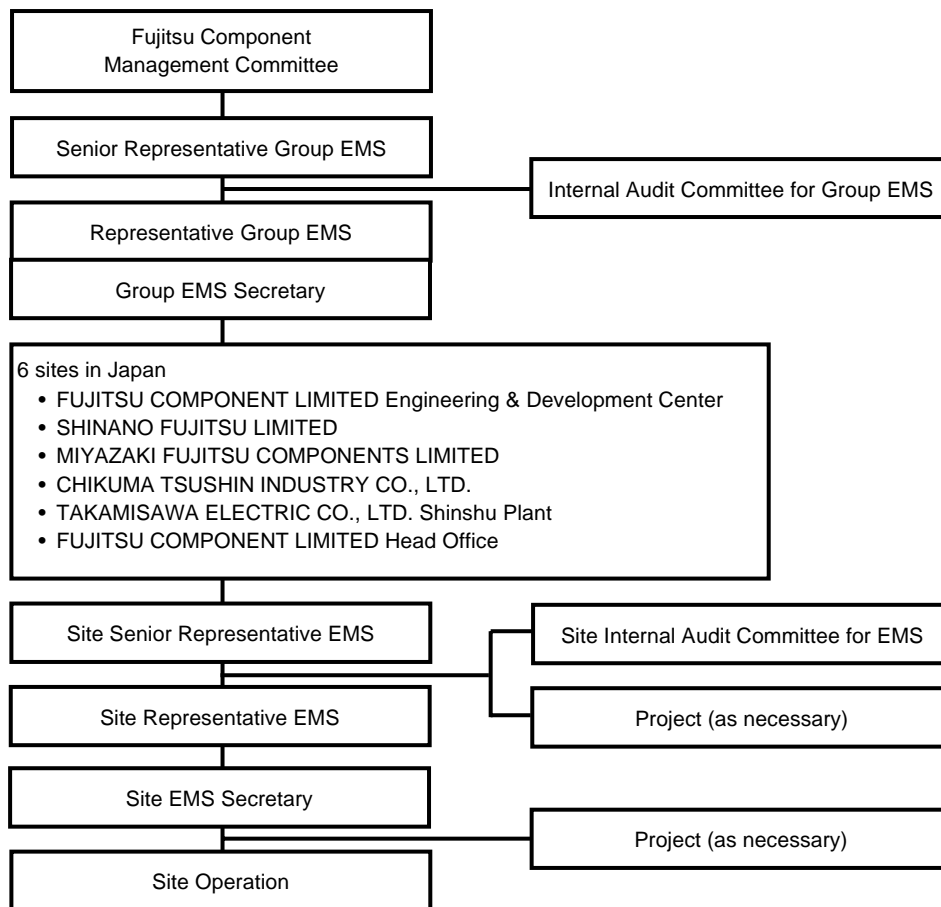
■ Environmental Management System

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.



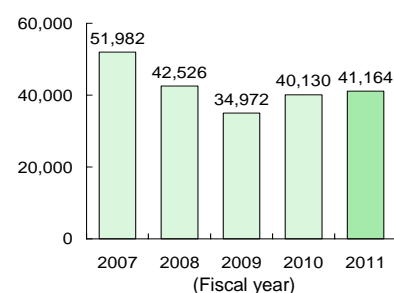
Note 1) Overseas 3 sites: FUJITSU COMPONENT (MALAYSIA) SDN. BHD. in Malaysia, FUJITSU COMPONENTS (CHANGZHOU) CO., LTD. in China, QINGDAO KOWA SEIKO CO., LTD. in China.

■ Group Profile

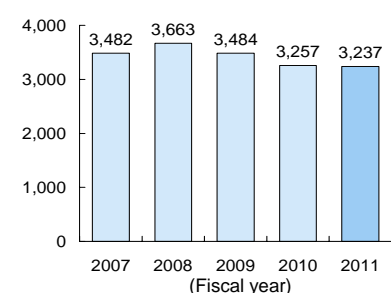
■ Group Profile

Head Office FUJITSU COMPONENT LIMITED
 Address 3-5 Higashi-Gotanda 2-chome, Shinagawa-ku, Tokyo 141-0022, Japan
 President Koichi Ishizaka
 Foundation September 17, 2001
 Main Business Manufacturing and sales of connecting components (relays and connectors), input/output devices (keyboards etc.) and other applied electrical devices
 Activities
 Capital 6,764 million yen (as of March 31, 2012)
 Sales 41,164 million yen (consolidated, FY2011)
 Financial year end March 31
 Employees 3,237 (consolidated, as of end of March 2012)
 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.

Sales (consolidated) unit: million yen



Employees (consolidated) unit: persons



■ 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	463	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, 2015
SHINANO FUJITSU LIMITED	Iiyama-shi, Nagano	567	Manufacturing of Fujitsu Component's products and customized printed boards.	
MIYAZAKI FUJITSU COMPONENTS LIMITED	Nichinan-shi, Miyazaki	363	Manufacturing of relays	
CHIKUMA TSUSHIN INDUSTRY CO., LTD.	Saku-shi, Nagano	123	Manufacturing of relay parts	
TAKAMISAWA ELECTRIC CO., LTD. Shinshu Plant	Saku-shi, Nagano	45	Manufacturing of relay parts	
FUJITSU COMPONENT LIMITED Head office	Shinagawa-ku, Tokyo Nagoya-shi, Aichi Osaka-shi, Osaka	195	Development and design of wireless module, group management, sales of products	

Note 1) Employees in each sites are as of March 31, 2012.

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 Electronics 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: 00110E20300R0M/3700 Validity: February 8, 2013

■ Topics of Environmental Activities

■ Topics of Environmental Activities

■ Development of Eco-friendly Products

■ Green Products, Super Green Products

We aim for environmental load reduction for our customers, and oblige newly developed products to be *Green Products*, which complies with environmental assessment. In addition, we position the products which meet both energy saving and other factors (resource saving, contained chemicals, environment-contribution substances etc.) as *Super Green Product*, and promote development of higher level eco-friendly products.

Super Green Product = (to be a Green Product) + (energy saving + other top class environmental factor)

Note) Super Green Products are approved by Fujitsu Limited.

• Super Green Products in FY2011

In FY2011, 2 products were approved as Super Green Products. Here is the list of approved products.

Product	Series/Product name	Features
Relay	Latching relay FBR51 series	<ul style="list-style-type: none"> • Magnetic latching relay, reduced standby power by 82% • Reduced CO₂ emission by 46% in its life cycle • Reduced volume per performance by 86%
KVM Switch	Console drawer FD-5300 series	<ul style="list-style-type: none"> • Reduced working power consumption by 23% • Reduced standby power consumption by 90% • Lead free soldering • ENERGY STAR[®] qualified drawer (Display standards Ver. 5.0)



FD-5300 series

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

We introduced Eco-efficiency factor in FY2007 and we aim to achieve factor 1.2 or more by FY2012 compared with FY2008 products. In FY2011, we achieved factor 1.8 on average of 9 newly-developed products. All developed products shall be evaluated under this index and meet the target.

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.

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

Specification, characteristic, function
Numerator:
improvement of product value

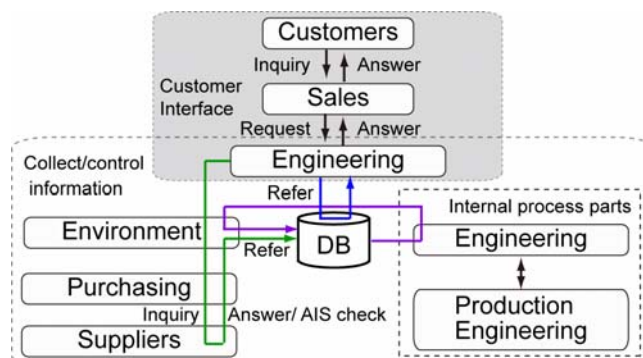
CO₂ emission throughout life cycle
Denominator:
reduction of environmental load

■ Management of the Restricted Chemical Substances in Products and REACH Regulation

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

It is required that a company understands safety of chemicals used and deliver the chemical information contained in the products. We have been gathering of chemical data and creating a data base on AIS(*) for appropriate management and transmission of information. We also worked jointly with material suppliers to comply with Green Supply Standard and to improve the level of control regime with their cooperation.

Note 1) AIS: Article Information Sheet, a standard format to disclose/transmit information of chemical contained.



■ Topics of Environmental Activities

■ **Topics of Environmental Activities**

■ **Green Procurement**

We have been asking supply chain partners to meet the *Green Procurement* to prevent contamination of controlled/banned substances into the Group products and production lines, and for environmental protection and reduction of load against eco-system.

We ask each material suppliers to meet following items, and conduct regular check through surveys and various audits.

- Establishment of Environmental system (EMS)
- Effort to hold down/reduce CO₂ emissions
- Implementation of efforts in biodiversity conservatory
- Establishment of Chemical Management System (CMS)
- Compliance with each regulation concerning the controlled chemicals in the Group

■ **Priority Chemicals Management**

We conduct activities to reduce air emissions of the substances, which are used in the production lines and are controlled under *Air Pollution Control Act* and *Act on Confirmation, etc. of Release Amounts of Specific Chemical Substances in the Environment and Promotion of Improvements to the Management Thereof*.

For example, cleaning of conveyer chain in PCB fluxer with isopropyl alcohol (IPA) was changed to intermittent cleaning, cleaning of glass surface was changed from ethanol towel cleaning to pure-water automatic cleaning, container sealing to prevent volatilization.

■ **Global Warming Countermeasures**

The Group is always aware of energy and resource saving and conducts various activities as global warming countermeasures. Sprinkling water on the roof to improve air cooling efficiency and distributed placement exhaust fans are continued in FY2011, too. In addition, we took following measures last year; heat rejection treatments on the equipments which release heat, and scrapping exhaust heat to outdoor to reduce cooling load; introduction of energy-saving motorized utilities; replacement of light with LEDs; heat rejection with Green Curtain. Each staff also worked for energy saving such as turning off unnecessary lights and PC displays.

Moreover, we had to overcome the shortage of electricity triggered by the accident of Fukushima No.1 nuclear plant last year. We kept the continuous operation and stable products supply by reducing peak-time electricity consumption through above mentioned countermeasures.

Shortage of electricity is also concerned in FY2012. We strive for further energy saving to prevent global warming and to keep stable production.



Exhaust heat to outdoor
Shinano Fujitsu Limited



Replace light with LEDs
Chikuma Tsushin Industry Co.,Ltd.



Heat rejection by Green Curtain
Miyazaki Fujitsu Components Limited

■ **Waste Management**

Each site of the Group practices the rule that to reuse paper and plastics by thoroughly segregation, and reduces emission of waste. On the other hand, we are studying on reuse of glasses, liquid/sludge waste from plating process and other wastes in cooperation with research institutions and disposal contractors.



Glass wastes

■ **Compliance and Prevention of Environmental Pollution**

Each factory and sales office collects information about applicable laws and ordinances regularly and clarify the requirements we should comply with.

Concerning *Water Pollution Control Act*, *Sewerage Act* and *Air Pollution Control Act*, we specify the facilities having potentiality of off-site pollution, and conduct regular monitoring and measurement.

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.

Please refer individual site's report for details.

■ **Environmental and Social Contribution**

The social contribution activities of each site are accepted as community-based activities. Miyazaki Fujitsu Components Limited was given the Award for Environment Conservatory by Miyazaki prefecture for their regular cleaning up in Aya Laurel Forest. Local cleanup activities by Engineering & Development Center and Shinano Fujitsu Limited is becoming trusted events by government agencies. Other continuous activities such as donation of vaccine through PET bottle cap collection and donation of used stamps for reforestation by Head Office, cleaning around factories by Takamisawa Electric Co.,Ltd. Shinshu Factory and Chikuma Tsushin Industry Co., Ltd., are also appreciated by related organizations and local community.



Cleanup activity



Environment Conservatory Award

■ **Efforts in Biodiversity Conservatory**

We shared information with related government agencies and school officials, and selected activity items and working on them; for example, regular cleanup of spawning coast for loggerhead turtles, thinning operation etc.

In parallel, we educate staffs about necessity of biodiversity conservatory. Every single staff thinks about one's relationship with biodiversity conservatory and works on the activities that can do in the office, home and community.



Regular cleanup of spawning coast of loggerhead turtles

■ FY2011 Targets and Achievements (Group Total)

■ FY2011 Targets and Achievements (Group Total)

■ FY 2011 Targets and Achievements (First year of the 5th 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 at least 7 Super Green Products.	7 products (Note1)	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 FY2012.	Achieve the eco-efficiency factor of 1.2.	Achieved factor of 1.8 (average of 9 newly-developed products)	Done
Enhancement of own environmental load reduction plan	Reduce CO ₂ emission generated 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 to below 17,248t-CO ₂ .	15,808t-CO ₂ (reduced 30.6% by FY2000 level)	Done
	Procure all materials from the suppliers who have a program to reduce CO ₂ emission by the end of FY2012.	Minimum 81% materials shall be procured from those suppliers.	99% were procured from those suppliers (objective 148 suppliers)	Done
	Reduce priority chemicals specified by each site not exceeding 7,200kg, 20% reduction from FY2007 level (9,038kg) by the end of FY2012. (Note2)	Hold it down to below 6,687kg in the Group.	5,792kg (reduced 35.9% by FY2007 level)	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 793t in the Group.	736t (reduced 24.4% by FY2007 level)	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 (total 9 activities).	10 activities	Done
Promotion of biodiversity conservatory activities	Provide the education of biodiversity conservatory for diffusion and edification at each site.	Implement min. 1 activity for biodiversity conservatory at each site (total 7 activities).	10 activities	Done
	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.	100% (objective 148 suppliers)	Done

Note 1) Including Fujitsu Component's own registration items.

Note 2) It was changed to 7,200kg from original target 6,510kg during last period.

■ Status of Environmental Laws Compliance

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

■ FY2012 Targets (Second year of 5th Stage -- Group Total)

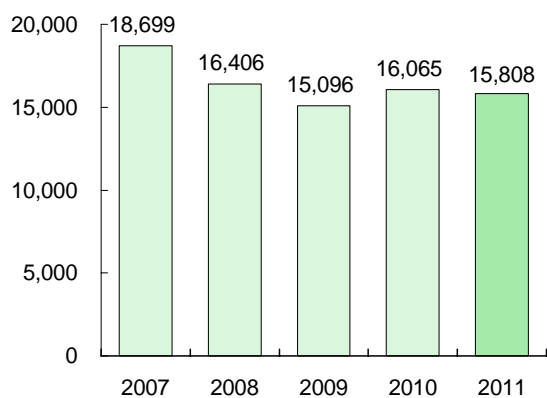
Item	Aim	Target
Improvement of environmental value of products and services	More than 30% of newly developed Green Products shall be Super Green Products by the end of FY2012.	Min. 30% of newly-developed Green Products and min.1 from each product shall be Super Green Product.
	Establish calculation method 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 on every Green Product.
Enhancement of own environmental load reduction plan	Reduce CO ₂ emission generated 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 to below 16,230t-CO ₂ .
	Procure all materials from the suppliers who have a program to reduce CO ₂ emission by the end of FY2012.	All procurement shall be from those suppliers at each site.
	Reduce priority chemicals specified by each site not exceeding 7,200kg, 20% reduction from FY2007 level (9,038kg) by the end of FY2012.	Hold it down to below 7,120kg in the Group.
	Reduce generation of waste not exceeding 875t, 10% reduction from the FY2007 level (973t), by the end of FY2012.	Hold it down to below 823t.
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 (total 11 activities).
Promotion of biodiversity conservatory activities	Provide the education of biodiversity conservatory for diffusion and edification at each site.	Implement min. 1 activity at each site (total 6 activities).
	Procure all materials from the suppliers who declare effort for biodiversity conservatory by the end of FY2012.	All procurement shall be from those suppliers at each site.

Note 1) Aim of energy consumption CO₂, priority chemicals, waste is reviewed by production plan change, adding measurement item, review of reduction effectiveness.

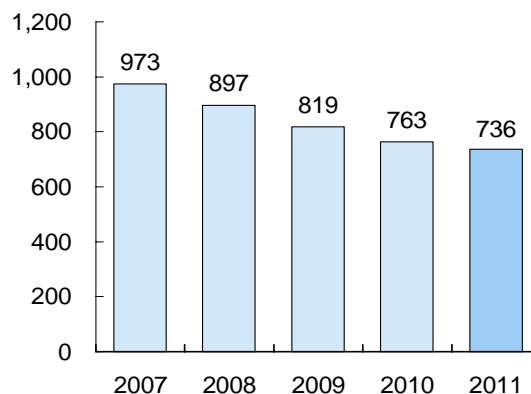
■ Environmental Load Data

■ Environmental Load Data (Group Total)

■ CO₂ Emissions (unit: t-CO₂)



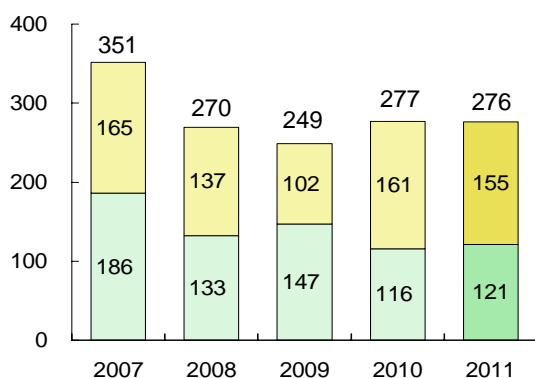
■ Wastes (unit: tonne)



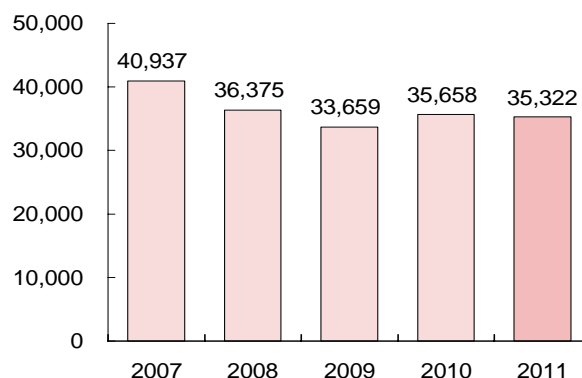
Note) Non-target LPG in cafeteria is included in FY2009.

■ Water Usage (unit: km³)

■ Ground water ■ Tap water

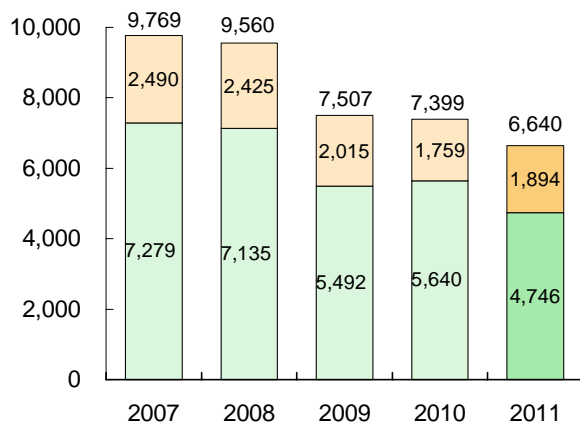


■ Electric Power Consumption (unit: MWh)



■ IPA and Ethanol Emissions (unit: kg)

■ IPA ■ Ethanol



■ FY2011 Targets and Achievements, FY2012 Targets

■ Details (1) Engineering & Development Center

■ FY2011 Targets and Achievements

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 Product per product family.	6 (relay, KVM, keyboard, thermal printer, connector, touch panel)	Done
	Establish calculation method of eco-efficiency factor and LCA, and achieve the 1.2 on the newly designed Green Products compared with FY2008 products by the end of FY2012.	Achieve eco-efficiency factor 1.2 on all Green Products newly designed.	1.8 (average of 9 products)	Done
Enhancement of environmental load reduction activities	Reduce CO ₂ emission created by energy consumption not exceeding 3,837t-CO ₂ , 60% reduction from the FY2000 result (9,696t-CO ₂).	Hold it down to below 3,772t-CO ₂ .	3,574t-CO ₂ (63% reduction from FY2000)	Done
	Procure all materials from the major suppliers who have a program to reduce CO ₂ emission by the end of FY2012.	Procure 90% of materials from those major suppliers ^(Note1) .	All objective suppliers have the program	Done
	Reduce ethanol emission not exceeding 1,140kg, 38% reduction from FY2007 (1,852kg) by the end of FY2012.	Hold it down to below 1,200kg ^(Note1) .	1,113kg (18% reduction from FY2007)	Done
	Reduce generation of waste not exceeding 210t ^(Note2) , hold it down max 118% of FY2007 result (179kg) by the end of FY2012.	Hold it down to below 158t ^(Note1) .	147t (18% reduction from FY2007)	Done
Environmental and social contribution	Contribute to social activities in local community at least once a year.	Implement min.2 contributions.	2 (cleanup activity in the town, education for staff)	Done
Promotion of biodiversity conservatory activities	Promote diffusion and edification activities for biodiversity conservatory.	Implement min.2 activities.	2 (Thinning operation at Iizuna Highland, 2/year)	Done
	Procure all materials from the major suppliers who declare effort for biodiversity conservatory by the end of FY2012.	Procure min.90% of materials from those major suppliers ^(Note1) .	All objective suppliers took effort.	Done

Note 1) Target values were changed during last period: CO₂ emission from 80% to 90%, VOC objective ethanol emission from 1,098kg to 1,200kg, generation of waste from 126t to 158t, procurement from the suppliers who declare effort for biodiversity conservatory from 80% to 90%.

Note 2) It was reviewed and changed from 143t to 210t during the last period.

■ FY2012 Aims and Targets

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.	Min.30% of newly-developed Green Products and min.1 from each product shall be Super Green Product.
	Establish calculation method of eco-efficiency factor and LCA, and achieve the 1.2 on the newly designed Green Products compared with FY2008 products by the end of FY2012.	Achieve eco-efficiency factor 1.2 on all Green Products newly designed.
Enhancement of environmental load reduction activities	Reduce CO ₂ emission created by energy consumption not exceeding 3,840t-CO ₂ , 62% reduction from the FY2000 result (9,696t-CO ₂).	Hold it down to below 3,640t-CO ₂ .
	Procure all materials from the major suppliers who have a program to reduce CO ₂ emission by the end of FY2012.	Procure all materials from those major suppliers.
	Reduce VOC objective ethanol emission not exceeding 1,800kg, 3% reduction from FY2007 (1,852kg) by the end of FY2012.	Hold it down to below 1,800kg.
	Reduce generation of waste not exceeding 176t, 2% reduction from FY2007 result (179kg) by the end of FY2012.	Hold it down to below 176t.
Environmental and social contribution	Contribute to social activities in local community at least once a year.	Implement 1 contribution.
Promotion of biodiversity conservatory activities	Promote diffusion and edification activities for biodiversity conservatory.	Implement 1 activities.
	Procure all materials from the major suppliers who declare effort for biodiversity conservatory by the end of FY2012.	Procure all materials from those major suppliers.

Note) Aim of energy consumption CO₂, VOC objective ethanol, generation of waste were changed by reviewing FY2011 results, FY2012 production plan change, addition of measurement items, review of reduction effectiveness, etc.

■ Environmental load data

■ Details (1) Engineering & Development Center

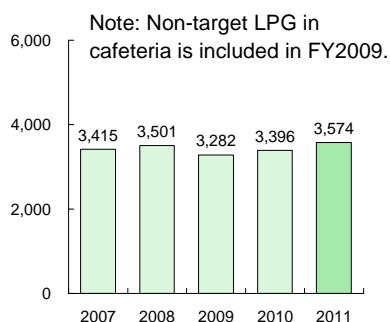
■ Status of Environmental Law Compliance.

We conducted measurements conform to *Air Pollution Control Act*, *Sewerage Act*, *Noise & Vibration Control Act* twice a year. We confirmed that every value was under voluntary thresholds, which are set to be within the legal threshold. Below table shows the results of major substances.

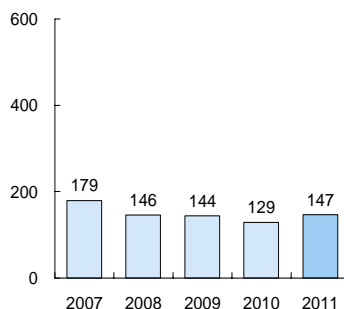
Item		Unit	Legal Threshold	Prefecture Threshold	Voluntary Threshold	Result (max.)
Air Pollution Control Act	Sulfur Oxide concentration	Nm ³	--	--	max.2.5	0.014
	Nitrogen Oxide	ppm	260	180	max.150	97
Noise Regulation Act	Morning, evening	dB	55 - 65	60	max.55	50.1
	Noon time	dB	60 - 65	60	max.55	50.1
	Night time	dB	50 - 55	50	max.47.5	47.0
Vibration Regulation Act	Noon time	dB	65 - 70	65	max.60	35.0
	Night time	dB	60 - 65	60	max.55	27.0
Sewerage Act	Hydrogen-ion concentration (pH)	-	5 - 9	5 - 9	5.1 - 8.9	7.3 - 7.5
	Biochemical Oxygen Demand	mg/l	600	600	max.300	67
	n-hexane extraction (mineral oil)	mg/l	5	5	max.4	less than 1.0

■ Environmental Load Data

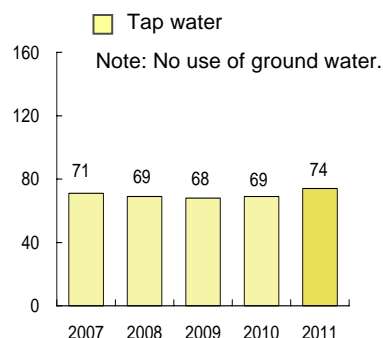
■ CO₂ Emissions (unit:t-CO₂)



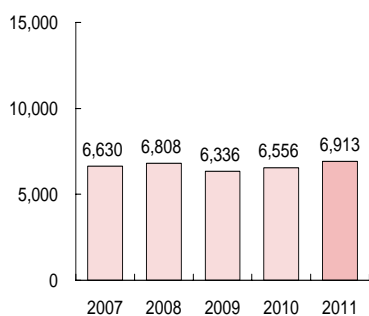
■ Wastes (unit:tonne)



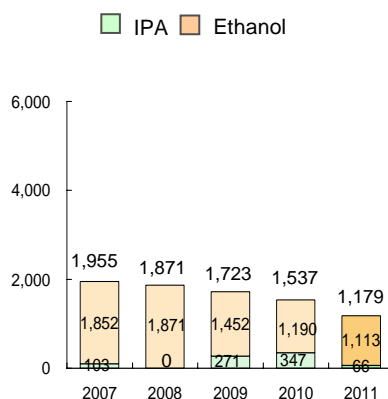
■ Water Usage (unit: km³)



■ Electrical Power Consumption (unit: MWh)



■ IPA & Ethanol Emissions (unit: kg)



■ FY2011 Targets and Achievements, FY2012 Targets

■ Details (2) SHINANO FUJITSU LIMITED

Item	Aim	Target	Result	Status
Enhancement of environmental load reduction activities	Reduce CO ₂ emission created by energy consumption not exceeding 3,589t-CO ₂ , 18% reduction from the FY2000 result (4,379t-CO ₂).	Hold it down to below 3,624t-CO ₂ .	3,607t-CO ₂ (17.6% reduction from FY2000).	Done
	Procure all materials from the suppliers who have a program to reduce CO ₂ emission by the end of FY2012.	Procure min.80% of materials from those major suppliers.	93% of objective suppliers have the program	Done
	Reduce IPA emission not exceeding 4,300kg, 10% reduction from FY2007 (5,706kg) by the end of FY2012.	Hold it down to below 4,400kg.	3,760kg (34.1% reduction from FY2007)	Done
	Reduce generation of waste not exceeding 440t, 12.6% reduction from FY2007 result (503t) by the end of FY2012.	Hold it down to below 413t. ^(Note1)	387t (23% reduction from FY2007)	Done
Environmental and social contribution	Contribute to social activities in local community at least once a year.	Implement min.1 contribution.	2 (Fujitsu group's thinning operation, cleanup activity in the town)	Done
Promotion of biodiversity conservatory activities	Promote diffusion and edification activities for biodiversity conservatory.	Implement min.1 biodiversity conservatory activities.	2 (extermination of alien species, twice)	Done
	Procure all materials from the suppliers who declare effort for biodiversity conservatory by the end of FY2012.	Procure min.80% of materials from those major suppliers.	All objective suppliers took effort.	Done

Note 1) It was reviewed and changed from 445t to 413t during the last period.

■ FY2012 Aims and Targets

Item	Aim	Target
Enhancement of environmental load reduction activities	Reduce CO ₂ emission created by energy consumption not exceeding 3,589t-CO ₂ , 18% reduction from the FY2000 result (4,379t-CO ₂).	Hold it down to max.3,589t-CO ₂ .
	Procure all materials from the suppliers who have a program to reduce CO ₂ emission by the end of FY2012.	Procure all materials from those major suppliers.
	Reduce IPA emission not exceeding 4,300kg, 10% reduction from FY2007 (5,706kg) by the end of FY2012.	Hold it down to below 4,300kg.
	Reduce generation of waste not exceeding 440t, 12.6% reduction from FY2007 result (503t) by the end of FY2012.	Hold it down to below 440t.
Environmental and social contribution	Contribute to social activities in local community at least once a year.	Implement min.1 contribution.
Promotion of biodiversity conservatory activities	Promote diffusion and edification activities for biodiversity conservatory.	Implement min.1 biodiversity conservatory activities.
	Procure all materials from the suppliers who declare effort for biodiversity conservatory by the end of FY2012.	Procure all materials from those major suppliers.



Heat insulating coat on exhaust heat duct



Exhaust heat to outdoor to reduce cooling load

■ Environmental Load Data

■ Details (2) SHINANO FUJITSU LIMITED

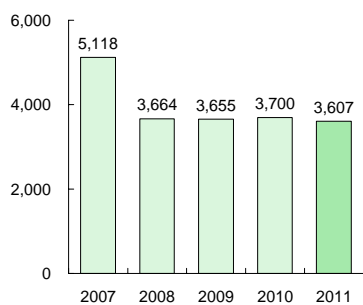
■ Status of Environmental Laws compliance

There is no item environmental laws or regulations shall be applied. However, we set voluntary control value based on the legal threshold and monitor them. Measured values are shown in below table .

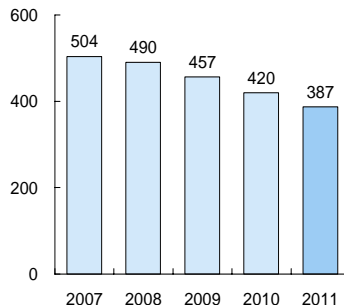
Item		Unit	Legal Threshold	Prefecture Threshold	Voluntary control value	Result
Air Pollution Control Act	Sulfur Oxide concentration	Nm ³ /h	--	--	max.1	0.0093
	Nitrogen Oxide	ppm	--	--	max.108	56
Noise Regulation Act	Morning, evening	dB	--	--	max.70	59.3
	Noon time	dB	--	--	max.70	57.5
	Night time	dB	--	--	max.65	58.6
Vibration Regulation Act	Noon time	dB	--	--	max.70	39.2
	Night time	dB	--	--	max.65	38.2
Sewerage Act	Hydrogen-ion concentration (pH)	-	5 - 9	--	5.5- 8.5	8.4
	Biochemical Oxygen Demand	mg/l	600	--	max.550	62
	n-hexane extraction (plant/animal oil)	mg/l	30	--	max.15	2.7

■ Environmental Load Data

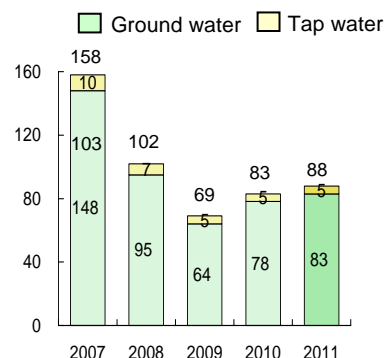
■ CO₂ Emissions (unit: t-CO₂)



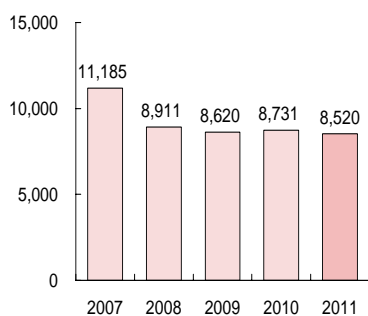
■ Wastes (unit: tonne)



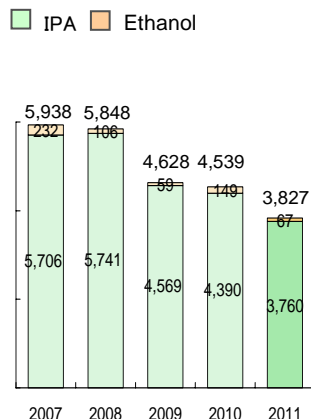
■ Water Usage (unit: km³)



■ Electrical Power Consumption (unit: MWh)



■ IPA & Ethanol Emissions (unit: kg)



■ FY2011 Targets and Achievements, FY2012 Targets

■ Details (3) MIYAZAKI FUJITSU COMPONENTS LIMITED

■ FY2011 Targets and Achievements

Item	Aim	Target	Result	Status
Enhancement of environmental load reduction activities	Hold down CO ₂ emission created by energy consumption not exceeding 7,100 t-CO ₂ , 207% of the FY2000 result (3,431 t-CO ₂).	Hold it down to below (7,000t-CO ₂).	6,062t-CO ₂ (176.7% of FY2000).	Done
	Procure all materials from the major suppliers who have a program to reduce CO ₂ emission by the end of FY2012.	Procure min.70% of materials from those major suppliers who have the program.	All objective suppliers have the program	Done
	Reduce VOC emission to a result 27% reduction from FY2007 results (1,465kg) by the end of FY2012.	Hold IPA down to max.1,189kg.	920kg (37% reduction from FY2007)	Done
	Reduce generation of waste to a result 12.3% reduction from the FY2007 results (76.4t) by the end of FY2012.	Hold it down to below 65.0t.	59.5t (22% reduction from FY2007).	Done
Environmental and social contribution	Contribute to social activities in local community.	Implement min.3 activities.	4 (PET bottle cap donation, cleanup of adjacent road and woods, beautification campaign)	Done
Promotion of biodiversity conservatory activities	Promote diffusion and edification activities for biodiversity conservatory.	Implement 1 activity.	4 (cleanup of spawning coast of sea turtles and Midorigahama coast, "my-hashi" campaign, purchase of drinking water with donation)	Done
	Procure all materials from the major suppliers who declare effort for biodiversity conservatory by the end of FY2012.	Procure min.70% of materials from those major suppliers.	All objective suppliers took effort.	Done

■ FY2012 Aims and Targets

Item	Aim	Target
Enhancement of environmental load reduction activities	Hold down CO ₂ emission created by energy consumption not exceeding 6,400t-CO ₂ , 187% of the FY2000 result (3,431t-CO ₂).	Hold it down to below 6,400t-CO ₂ .
	Procure all materials from the major suppliers who have a program to reduce CO ₂ emission by the end of FY2012.	Procure all materials from those major suppliers who have the program.
	Reduce VOC emission to a result 30% reduction from FY2007 results (1,465kg) by the end of FY2012.	Hold IPA down to below 1,020kg.
	Reduce generation of waste to a result 15% reduction from the FY2007 results (76.4t) by the end of FY2012.	Hold it down to below 65.0t.
Environmental and social contribution	Contribute to social activities in local community.	Implement min.3 activities.
Promotion of biodiversity conservatory activities	Promote diffusion and edification activities for biodiversity conservatory.	Implement 1 activity.
	Procure all materials from the major suppliers who declare effort for biodiversity conservatory by the end of FY2012.	Procure all materials from those major suppliers.

Note) Aim of energy consumption CO₂, VOC objective IPA, generation of waste were changed by reviewing FY2011 results, FY2012 production plan change, addition of measurement items, review of reduction effectiveness.



Reuse of wooden pallet



Waste reduction by segregation



Energy saving by treatment against air leakage

■ Environmental Load Data

■ Details (3) MIYAZAKI FUJITSU COMPONENTS LIMITED

■ Status of Environmental Laws compliance

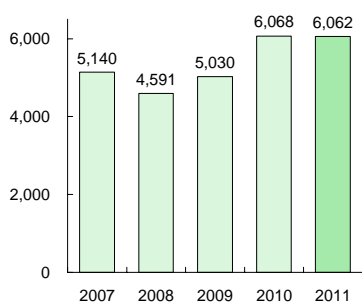
We conducted the measurement conform to *Water Pollution Control Act*, *Sewerage Act*, *Noise Control Act*, *Vibration Regulation Act* twice a year, and all measured values were within the voluntary control value which is set at within legal threshold. Measurement result on major items are shown in below table.

Item		Unit	Legal Threshold	Prefecture Threshold	Voluntary control value	Result
Noise Regulation Act (Obi Plant)	Morning, Evening	dB	50	--	max. 49	48.4
	Noon time	dB	55	--	max.53.9	49.0
	Night time	dB	45	--	max.44.1	43.8
Water Pollution Control Act (Hidakajima Drain)	Hydrogen-ion concentration	-	--	--	6.0 - 8.4	6.6 – 7.7
	Biochemical oxygen demand	mg/l	--	--	max.108	1.2
	n-hexane extraction (mineral oil)	mg/l	5	--	max.4.5	0.5
Sewerage Act (Main plant)	Hydrogen-ion concentration (pH)	-	--	--	6.0 -8.4	6.4 – 7.4
	Biochemical oxygen demand	mg/l	--	--	max.23	15.0

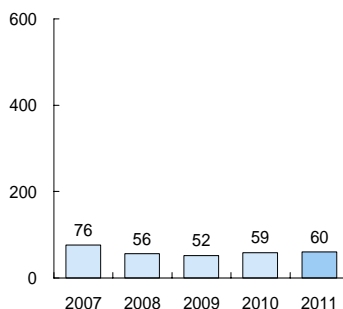
Note) Main plant and Hidakajima Plant locate out side of the area where *Noise Regulation Act* shall be applied.

■ Environmental Load Data

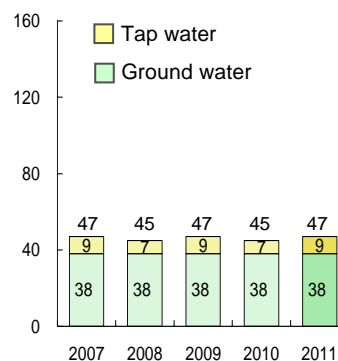
■ CO2 Emissions (unit: t-CO2)



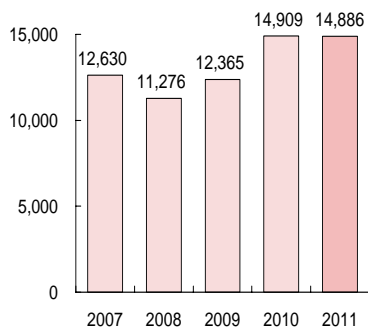
■ Wastes (unit: tonne)



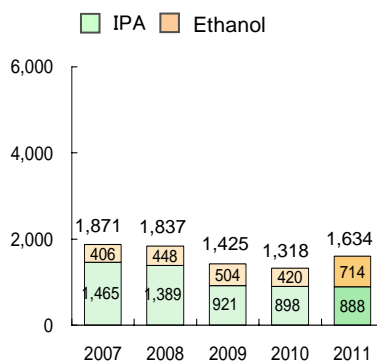
■ Water Usage (unit: km³)



■ Electrical Power Consumption (unit: MWh)



■ IPA & Ethanol Emissions (unit: kg)



■ FY2011 Targets and Achievements, FY2012 Targets

■ Details (4) CHIKUMA TSUSHIN INDUSTRY CO., LTD.

■ FY2011 Targets and Achievements

Item	Aim	Target	Result	Status
Enhancement of environmental load reduction activities	Reduce CO ₂ emission created by energy consumption not exceeding 2,400t-CO ₂ , 10.1% reduction from the FY2000 result (2,670t-CO ₂).	Hold it down to below 2,450t-CO ₂ . 8.2% reduction from FY2000 result.	2,252t-CO ₂ (15.7% reduction from FY2000).	Done
	Procure all materials from the major suppliers who have a program to reduce CO ₂ emission by the end of FY2012.	Procure 100% of materials from those major suppliers.	All objective suppliers has the program.	Done
	Reduce generation of waste not exceeding 146t, 21.7% ^(Note1) reduction from the FY2007 result (186.5t) by the end of FY2012.	Hold it down to max.148t, 20.6% reduction from FY2007 result.	134t (28.2% reduction from FY2007)	Done
Environmental and social contribution	Contribute to social activities in local community at least once a year.	Implement min.1 contribution.	1 (cleanup activity around the factory)	Done
Promotion of biodiversity conservatory activities	Promote diffusion and edification activities for biodiversity conservatory.	Perform min.1 surveillance for establishing biodiversity conservatory activity.	1 (education for staff)	Done
	Procure all materials from the major suppliers who declare effort for biodiversity conservatory by the end of FY2012.	Procure min.60% of materials from those major suppliers who declare the biodiversity conservatory activities.	All objective suppliers took effort.	Done

Note) Typing error in FY2011 report 27.1% was corrected to 21.7%.

■ FY2012 Aims and Targets

Item	Aim	Target
Enhancement of environmental load reduction activities	Reduce CO ₂ emission created by energy consumption not exceeding 2,200t-CO ₂ , 17.6% reduction from the FY2000 result (2,670t-CO ₂).	Hold it down to below 2,200t-CO ₂ . 17.6% reduction from FY2000 result.
	Procure all materials from the major suppliers who have a program to reduce CO ₂ emission by the end of FY2012.	Procure all materials from those major suppliers.
	Reduce generation of waste not exceeding 132t, 29.2% reduction from the FY2007 result (186.5t) by the end of FY2012.	Hold it down to max.132t, 29.2% reduction from FY2007 result.
Environmental and social contribution	Contribute to social activities in local community at least once a year.	Implement min.1 contribution.
Promotion of biodiversity conservatory activities	Promote diffusion and edification activities for biodiversity conservatory.	Perform min.1 surveillance for establishing biodiversity conservatory activity.
	Procure all materials from the major suppliers who declare effort for biodiversity conservatory by the end of FY2012.	Procure all materials from those major suppliers who declare the biodiversity conservatory activities.

Note) Target of energy consumption CO₂ and generation of waste were changed after reviewing FY2011 results, FY2012 production plan change, addition of measurement items, review of reduction effectiveness.



Saving energy by the introduction of high-efficient lights.



Cleanup activity around the factory

■ Environmental Load Data

■ Details (4) CHIKUMA TSUSHIN INDUSTRY CO.,LTD.

■ Status of Environmental Laws Compliance

Main and Nozawa plants conducted the measurement conform to *Water Pollution Control Act, Sewerage Act, Noise Control Act, Vibration Regulation Act* twice a year, and all measured values were within the voluntary control value set at within legal threshold. Main Plant hold the joint measurement with adjacent Takamisawa Electric Co., Ltd. Shinshu Plant . As to the result of Main Plant, please refer to Details (5) TAKAMISAWA ELECTRIC CO.,LTD. SHINSHU PLANT.

Note : Main plant locates outside of the area where environmental laws or regulations are applied.

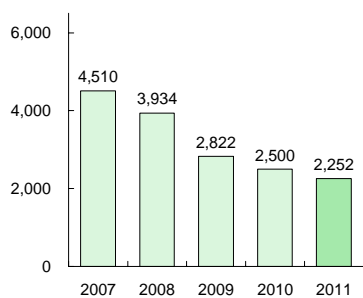
Data relating to drain water in Nozawa plant is shown below;

Item	Unit	Legal Threshold	Prefecture Threshold	Voluntary Threshold	Results (max.)	
Water Pollution Control Act	Hydrogen-ion concentration (pH)	-	5.8 - 8.6	--	6.0 - 8.4	6.8 - 7.4
	Biochemical oxygen demand	mg/l	160	--	max.108	5.5
	Tetrachloroethylene	mg/l	0.1	--	max.0.09	Less than 0.001
	Trichloroethylene	mg/l	0.3	--	max.0.27	Less than 0.001
	Cis-1,2-dichloroethylene	mg/l	0.4	--	max.0.36	Less than 0.01

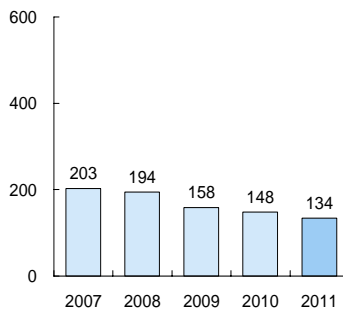
Excessive chlorine organic compound was found at Nozawa Plant in 1998 (it was Takamisawa Electric Co., Ltd. at that time). Objective chemical material was immediately replaced and soil cleaning and monitoring through observation well have been conducted since then. This activities will be kept in FY2012.

■ Environmental Load Data

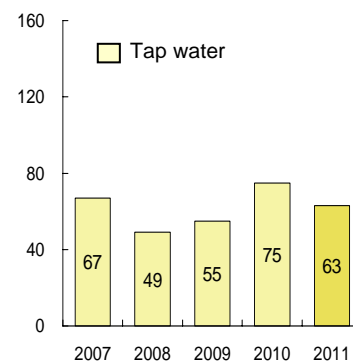
■ CO₂ Emissions (unit: t-CO₂)



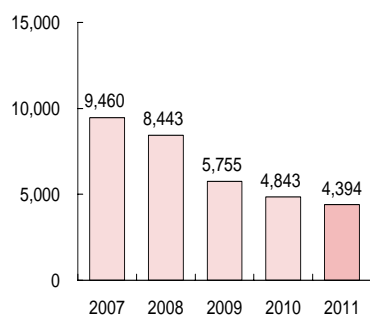
■ Wastes (unit: tonne)



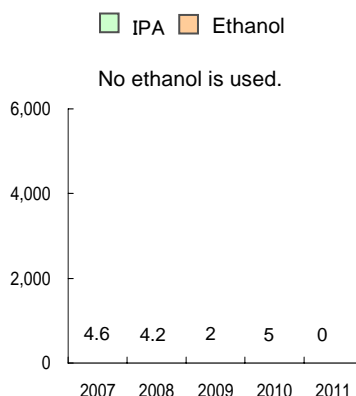
■ Water Usage (unit:km³)



■ Electric Power Consumption (unit: MWh)



■ IPA & Ethanol Emissions (unit: kg)



■ FY2011 Targets and Achievements, FY2012 Targets

■ Details (5) TAKAMISAWA ELECTRIC CO., LTD. SHINSHU PLANT

■ FY2011 Targets and Achievements

Item	Aim	Target	Result	Status
Enhancement of environmental load reduction activities	Reduce CO ₂ emission created by energy consumption not exceeding 227t-CO ₂ , 45% reduction from the FY2000 result (412t-CO ₂), by the end of FY2012.	Hold it down to below 228t-CO ₂ .	188t-CO ₂ (54% reduction from FY2000).	Done
	Reduce generation of waste not exceeding 3.1t, 2% reduction from FY2007 result (3.16kg) by the end of FY2012.	Hold it down to below 3.3t.	2.8t (11% reduction from FY2007)	Done
Environmental and social contribution	Contribute to social activities in local community at least once a year.	Implement min.1 contribution to society.	1 (cleanup activity around the factory).	Done
Promotion of biodiversity conservatory activities	Promote diffusion and edification activities for biodiversity conservatory.	Conduct min.1 surveillance for establishing biodiversity conservatory activity.	1 (education for staff)	Done

■ FY2012 Aims and Targets

Item	Aim	Target
Enhancement of environmental load reduction activities	Reduce CO ₂ emission created by energy consumption not exceeding 226t-CO ₂ , 45% reduction from the FY2000 result (412t-CO ₂), by the end of FY2012.	Hold it down to below 226t-CO ₂ .
	Hold down generation of waste not exceeding 3.2t, 1.3% increase of FY2007 result (3.16kg) by the end of FY2012.	Hold it down to below 3.2t.
Environmental and social contribution	Contribute to social activities in local community at least once a year.	Implement min.1 contribution to society.
Promotion of biodiversity conservatory activities	Promote diffusion and edification activities for biodiversity conservatory.	Conduct min.1 surveillance for establishing biodiversity conservatory activity.

Note) Aim of energy consumption CO₂ and generation of waste were changed by reviewing FY2011 results, FY2012 production plan change, addition of measurement items, review of reduction effectiveness.



Cleanup activity around the factory

■ Environmental Load Data

■ Details (5) TAKAMISAWA ELECTRIC CO., LTD. SHINSHU PLANT

■ Status of Environmental Laws Compliance

We conducted measurements conform to *Noise Regulation Act*, *Vibration Regulation Act* and *Sewerage Act* twice a year. Every value was under legal and voluntary thresholds. Takamisawa Electric Co., Ltd. Shinshu Plant locates next to Chikuma Tsushin Industry Co., Ltd. Main Plant and holds joint surveys with them.

Item		Unit	Legal Threshold	Voluntary Threshold	Result
Noise	Morning, evening	dB	--	max.70	49
	Noon	dB	--	max.70	54
	Night	dB	--	max.65	47
Vibrations	Day time	dB	--	max.70	36
	Night Time	dB	--	max.65	35
Sewerage	Hydrogen-ion concentration (pH)	-	5.0 - 9.0	6.0 - 8.9	8.2 - 8.8
	Biochemical oxygen demand	mg/l	600	max.300	130
	n-hexane extraction (mineral oil)	mg/l	5	max.4.5	Less than 1.0

Note : Takamisawa Electric Co.,Ltd. locates outside of the area where Noise Regulation Act is applied.

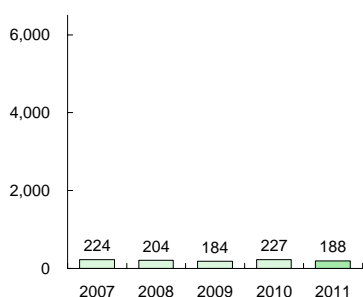
Self-survey found chlorine organic compound exceeded the threshold values in 1998. We stopped using objective chemicals and have been going on soil cleaning and monitoring through observation well. We confirmed that the value measured at the observation well at boundary of the site, which is located at downstream of underground water vein, in FY2011 was within the threshold. We will keep conducting those actions in FY2012.

Item		Unit	Legal Threshold	Result (Max value in the site)	Result (At observation well located at downstream side of ground water)
Measurement based on Soil Contamination Countermeasures Act	Tetrachloroethylene	mg/l	0.01	33	0.0098
	Trichloroethylene	mg/l	0.03	1.3	Less than 0.005
	Cis-1,2-dichloroethylen	mg/l	0.04	3.8	Less than 0.005

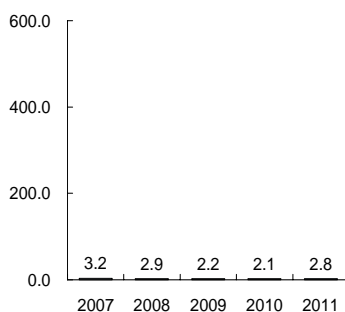
Note : Legal threshold is environmental quality standards for groundwater under *Basic Environment Act*.

■ Environmental Load Data

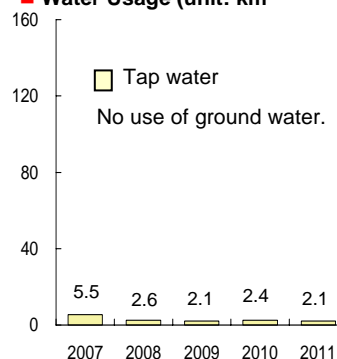
■ CO₂ Emissions (unit: t-CO₂)



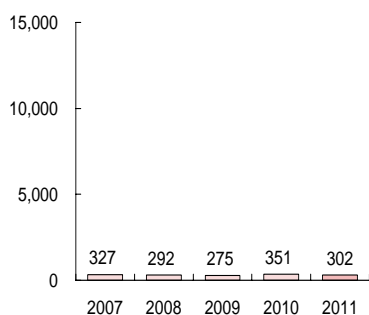
■ Wastes (unit: tonne)



■ Water Usage (unit: km³)

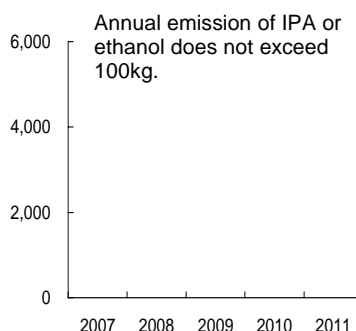


■ Electrical Power Consumption (unit: KWh)



■ IPA & Ethanol Emissions (unit: kg)

■ IPA ■ Ethanol



■ FY2011 Targets and Achievements, FY2012 Targets

■ Details (6) FUJITSU COMPONENT LIMITED Head Office

■ FY2011 Targets and Achievements

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. Sales of those products shall be proceeded.	(Development group) min.1 Super Green Product shall be developed. (Sales dept) Monitor sales result, conduct environmental educations twice to support sales activities and conduct enlightenment program.	(Development Group) 1 (wireless module). (Sales Dept) Sales promotion of objective products, staff education twice a year.	Done
	Establish calculation method of eco-efficiency factor and LCA, and achieve the environmental efficiency factor of 1.2 on the newly designed Green Products by the end of FY2012 compared with the products developed in FY2008.	Eco-efficiency factor of 1.2 shall be achieved on all green products.	Achieved factor of 3.51	Done
Environmental and social contribution	Contribute to social activities in local community at least once a year.	Implement min.1 contribution to society and proceed the awareness-raising for environmental and social contribution.	3 (collection of used stamps and bottle caps, "my cup" campaign).	Done
Promotion of biodiversity conservatory activities	Promote diffusion and edification activities for biodiversity conservatory.	Conduct min.1 activity relating to biodiversity conservatory.	1 (education for staff)	Done

■ FY2012 Aims and Targets

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. Sales of those products shall be proceeded.	(Development group) min.30% of newly developed Green products and min. 1 Super Green Product shall be developed. (Sales dept) Monitor sales result, conduct environmental educations twice to support sales activities and conduct enlightenment program.
	Establish calculation method of eco-efficiency factor and LCA, and achieve the environmental efficiency factor of 1.2 on the newly designed Green Products by the end of FY2012 compared with the products developed in FY2008.	Eco-efficiency factor of 1.2 shall be achieved on all green products.
Environmental and social contribution	Contribute to social activities in local community at least once a year.	Implement min.1 contribution to society and proceed the awareness-raising for environmental and social contribution.
Promotion of biodiversity conservatory activities	Promote diffusion and edification activities for biodiversity conservatory.	Conduct min.1 activity relating to biodiversity conservatory.



Polio vaccine donation by PET bottle cap collection



"My cup campaign" to reduce paper cups

■ Environmental Load Data

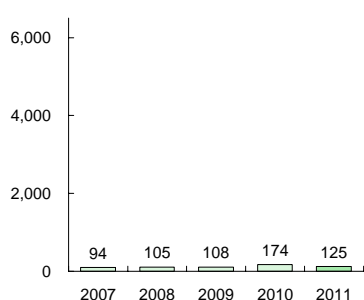
■ Details (6) FUJITSU COMPONENT LIMITED Head Office

■ Status of Environmental Laws Compliance

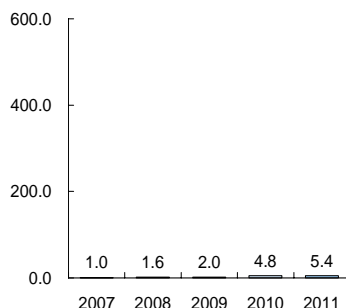
We obtain information about enactment and revision of regulations relating to head office and sales offices regularly. *Waste Management and Public Cleansing Law*, *Act for Recycling of Specified Kinds of Home Appliance* and *Act for Collection and Fracture of Freon* shall be applied for equipment disposal. Also according to *Act on the Rational Use of Energy* amendment (amended in 2008, enacted in 2009), Fujitsu Component Limited was designated as a specified company and we took required actions such as appointment and notification of the managers, submittance of middle-long term plan documents and annual report. Compliance with the environmental laws are confirmed every quarter and ensure it through Fujitsu Group internal audit and external audit.

■ Environmental Load Data

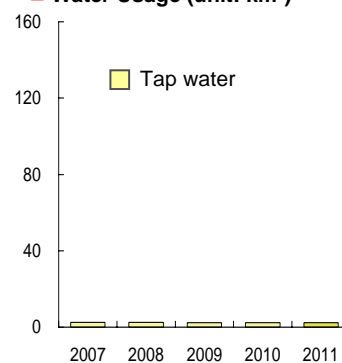
■ CO₂ Emissions (unit: t-CO₂)



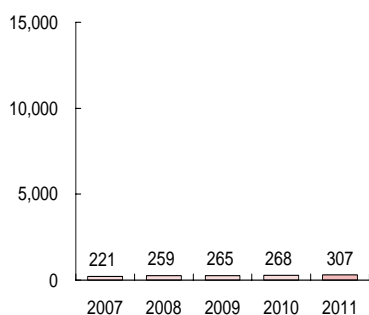
■ Wastes (unit: kg)



■ Water Usage (unit: km³)

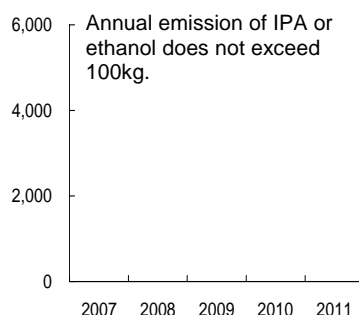


■ Electrical Power Consumption (unit: MWh)



■ IPA & Ethanol Emissions (unit: kg)

■ IPA ■ Ethanol



■ List of Super Green Products

■ List of Super Green Products

A Super Green Product should be a Green Product and meets both energy saving and other factors (resource saving, contained chemicals, environmental-contribution substances etc.).

Note) Evaluation of Super Green Products is at the date of approval date.

Product	Series or product name	Approval	Main Features
Relay	FBR51 latching	Mar. 2012	Reduced standby power consumption by 82%. Reduced CO ₂ throughout life cycle by 46%, Reduced volume per performance by 86%.
	FTR-K3L	Mar. 2011	No standby power (latching). Lead free soldering. REACH conforming (as of the end of Mar. 2011).
	FTR-J2	Mar. 2010	10A-450VDC rating, reduced power consumption, weight and volume.
	FTR-K1L	Mar. 2010	No standby power required (latching), improved shock resistance three times (in comparison with equivalent products from other suppliers)
	FTR-V1	Mar. 2010	No standby power required (latching).
	FTR-K2W	Aug. 2009	Reduced volume. Reduced standby power consumption by setting of hold voltage.
	FTR-F1L	Mar. 2009	No standby power (latching).
	JSL	Mar. 2008	Lower profile with low power consumption among 8A rating relays.
	FTR-H3	Apr. 2010	Improved silence and low profile (19mm)
Connector	88 straight jack	Feb. 2010	Reduced occupied volume by 20.9%.
	07J for DDR3	Mar. 2010	reduced temporary-joint piece-parts.
	360 right angle plug FCN-365P	Mar. 2010	Reduced weight.
	260S	Mar. 2009	Reduced the total piece-parts quantity by 36%.
	10Gbps test board (4X, 12X)	Oct. 2008	Reduced volume by 24% (12X). Employed coaxial connector reusable construction (4X, 12X).
	FCU-010M 10GECX electrical transceiver module	Dec. 2004	Saved energy (max. operating power 3W)
Pointing Device / Keyboard	N01B-4824-B811/20	Feb. 2010	Saved standby energy by approx. 50%.
	FKB1618	Mar. 2009	Reduced weight by 20%.
Thermal Printer	FTP-627MCL411-R	Mar. 2010	Reduced power consumption and increased printing speed.
	FTP-63AMCL401-R	Mar. 2009	Reduced volume by 24%.
	FTP-627MCL401/601	Mar. 2008	Reduced weight by 44% and volume by 35% (smallest in the market).
Touch Panel	multi-input touch panel	Mar. 2010	Reduction of piece-parts quantity and elimination of PFOS (Persistent organic pollutant) contained piece-parts.
	Touch panel with cushion	Mar. 2009	Reduction of piece-parts quantity and elimination of PFOS (persistent organic pollutant) contained piece-parts.
KVM switch	FD-5300 drawer	Mar. 2012	Reduced power consumption at work by 23%. Reduced standby power consumption by 90%. Lead free soldering. ENERGY STAR [®] qualified.
	Drawer (custom)	Mar. 2011	Reduced power consumption at work by 36%. Reduced standby power consumption by 80%. Lead free soldering. ENERGY STAR qualified.
	NC14004-B291-R KVM 8 port	Mar. 2010	Reduced weight and volume
	IP remote power controller	Mar. 2009	Enables to remote control of equipment's power consumption by 1W.
Wireless Module	MBH7WLZ23	Mar. 2011	Reduced power consumption at stand-by by 41%. Miniaturization in top result. Halogen free printed circuit board.
	MBH7BTZ39 Bluetooth [®] module	Mar. 2010	Reduced the number of piece-parts and weight and volume.
	MBH7BWZ04 Combo module	Feb. 2010	Reduced weight and volume.
Others	UWB flexible antenna	Mar. 2007	Reduced volume by 87.5%.

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■ Component solutions for Green Systems

FD-5300 Console Drawer



ENERGY STAR® qualified console drawer for energy saving.

FBR51 Latching Relay



Magnetic latching relay that reduces standby power consumption and CO₂ throughout its life cycle.

Smart Power Strip



Monitoring power consumption in 1W promotes energy saving. (Jointly developed with FUJITSU LABORATORIES INC.)

FTR-V2 Latching Relay



250VAC-120A latching relay with low heat generation on closed contact for power switching of smart meter.

Powerbar and Plug



Built-in arc quenching and mechanical switch increase the safety of 400VDC-10A outlet for DC distribution system. (Jointly developed with NTT FACILITIES,INC)

FTR-J2 relay



450VDC-10A PCB type relay for high voltage DC switching, built in magnetic arc quenching reduces contact wearing and welding.

IP Remote Power Controller

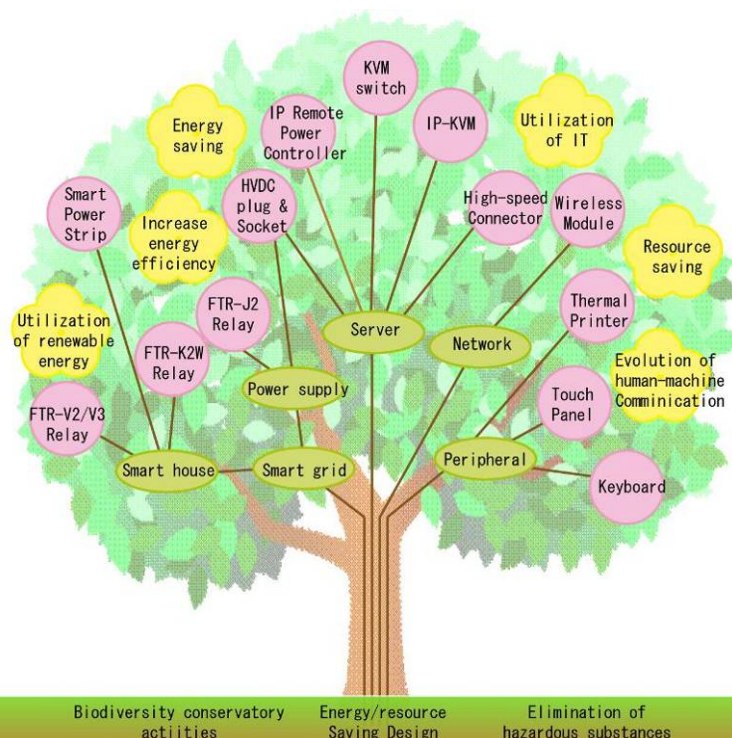


Power monitoring and control of equipment through network contribute to CO₂ reduction.

Wireless module



Wireless LAN and Bluetooth technology make equipment wireless and small.



■ Reference

■ Fujitsu Group Environmental Policy

■ Philosophy

The Fujitsu Group recognizes that global environmental protection is a vitally important business issue. By utilizing our technological expertise and creative talents in the ICT industry, we seek to contribute to the promotion of sustainable development. In addition, while observing all environmental regulations in our business operations, we are actively pursuing environmental protection activities on our own initiative. Through our individual and collective actions, we will continuously strive to safeguard a rich natural environment for future

■ Principles

- We help customers and society reduce the environmental impact of their business activities and improve environmental efficiency with advanced technologies, ICT products and solutions.
- We proactively promote environmentally conscious business activities to help the environment and economy coexist harmoniously.
- We strive to reduce the environmental impact of our ICT products and solutions throughout their entire lifecycle.
- We are committed to conserving energy and natural resources, and practice the 3Rs approach (reduce, reuse and recycle) to create best-of-breed eco-friendly products and solutions.
- We seek to reduce risks to human health and the environment from the use of chemical substances and waste.
- We disclose environment-related information on our business activities, ICT products and solutions, and we utilize the resulting feedbacks to critique ourselves in order to further improve our environmental programs.
- We encourage our employees to work on global environmental conservation such as tackling climate change and preservation of biodiversity through their business and civic activities to be role models in society.

Revised on April 2011

President of Fujitsu Limited

■ Contact

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FUJITSU

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