

Fujitsu Components Group Environmental Report FY2014

The Fujitsu Components Group has been working it's environmental management policy that aims for an eco-friendly and human-friendly society by offering components that provide energy savings and use natural energy, as well as products for eco-friendly applications and business activities.

1. Greeting

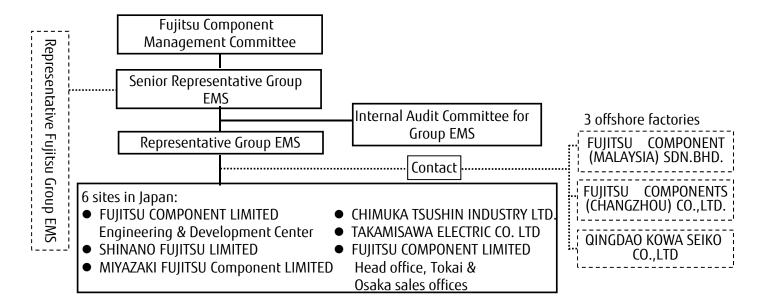
FY2013 was first year of the 6th Stage FUJITSU COMPONENTS Group Environmental Protection Program that aimed for the "development and offer of eco-friendly products", "collaboration with society", "activities as good corporate citizens", "reduction of green house gas", "improvement of energy efficiency", "promotion to reduce CO₂ emission of business partners", and "hold down of waste generation".

The FUJITSU COMPONENTS Group recognizes the role and responsibility toward the environment and biodiversity conservation, and contributes to a sustainable environment and society along with the FUJITSU Group's *Environmental Policy* and mid-term environmental vison of the *Green Policy 2020*.



Koichi Ishizaka President and Representative Director

2. Organization of Environmental Activities



3. Group Profile

Head Office FUJITSU COMPONENT LIMITED

Address 3-5 Higashi-Gotanda 2-chome, Shinagawa-ku, Tokyo 141-

0022, Japan

President Koichi Ishizaka Founded September 17, 2001

Main Business

Manufacturing and sales of connecting components (relays and connectors), input/output devices (touch panels, thermal printers) and other applied electrical devices

6,764 million yen (as of March 31, 2014) Capital Sales 43,073 million yen (consolidated, FY2013)

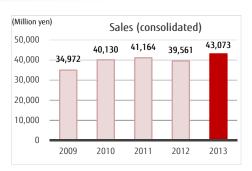
March 31 Financial Year End

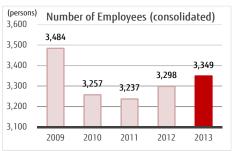
Employees 3,349 (consolidated, as of end of March 2014)

Equity Market Second Section of the Tokyo Stock Exchange, code 6719

Group Composition The Group is composed of total 13 companies;

5 Japanese companies including 1 sales company, and 8 overseas companies including 5 sales companies





4. Environmental Policy, Environmental Protection Program

FUJITSU COMPONENTS Group Environmental Policy

Philosophy

The FUJITSU COMPONENTS Group, member of the FUJITSU Group, recognizes 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 to realize low carbon and affluent society in accordance with ISO14001.

Action Plans

- We continuously improve our environmental management system and promote the prevention of environmental pollution by affirming environmental aspects of our activities, products and services.
- We offer products that contribute to achieve both environmental and economical goals.
- We comply with various environmental laws which involve our activities, products and services and other requirements.
- We continue to ban of hazardous substances in our products as specified by Fujitsu Components Group. We do not use or include any hazardous substances in our products, nor do we discharge any hazardous substances into the environment.
- Every staff shall strive to improve the environment including climate control and biodiversity conservation through their work and as private citizens and try to diffuse enlightenment.

Accentuation Items

We promote the following as the most important aspects of our environmental management policy in regards to our activities, products, and services:

- Development and provision of eco-friendly products
- Co-operation with society and contribution to social activities as a good corporate citizens
- Reduction of greenhouse gas (GHG) emission 3.
- 4. Improvement of energy efficiency
- Promotion of reduction of CO₂ emission in partner companies 5.
- Limitation of waste emission

Supplements

- This policy is documented and made public to our employees, our group members and other parties concerned
- The Environmental Control Division is responsible for the policies mentioned above.

5. The 6th Stage Group Environmental Protection Program (FY2013 to FY2015)

This Environmental Protection Program states the action plan to be implemented by our group Environmental Policy and important control items. It is the medium term action plan to be achieved by FY2015.

Development and provision of eco-friendly products

Each product family to develop at least one new eco-friendly product by FY2015.

- I. Product has leading energy-efficiency. (1)
- II. Product's resource efficiency is increased by 10% or more compared to FY2011. (2)

Cooperation with society

We promote resource provision through collection of used stamps, eco-cap recovery etc. for the activities addressing resolution of social and environmental issues such as biodiversity conservatory.

Activities as a good corporate citizen

We continuously enhance social contribution activities that corporate members can take back to their communities.

Reduction of greenhouse gas (GHG) emission

We will reduce total emission amount of energy origin CO_2 by 30% compared to FY2000 (22,777t- CO_2) by FY2015.

Improvement of energy efficiency

We will improve specific energy consumption in a facility by an average of 1% per year. (3)

Promotion of reduction of CO_2 emission by partner companies

We will promote reduction of CO_2 emission by all our partner companies.

Waste emission limits

We will generate less waste that will not exceed an average of FY2007 to FY2011 totals (839t) by FY2015.

Notes: (1) Leading products (world-first, industry-first, world-best, industry-best) in and other products which meet the criteria that requires to rank in the top 25% in the market in energy efficiency.

- (2) Improvement of product's resources (smaller, lighter, thinner, reducing number of parts) or resource circulation (reducing waste amount, recycle).
- (3) specific energy consumption means energy consumption amount per unit such as per sales amount, per production quantity, etc.

6. FUJITSU COMPONENTS Group Environmental Targets and Achievements

Ī	TI che. C. E	FY2	FY2014	
	The 6 th Stage Group Environmental Protection Program Goals	Targets	Results	Target
contribution act	Development and provision of eco-friendly products Each product family should develop at least one new eco-friendly product by FY2015. i. Product having a leading energy-efficiency. ii. Product's resource efficiency is increased by 10% or more compared to FY2011.	Develop one or more products by each product family (total: 9)	Developed 9 products	Develop 2 new eco- friendly products
	Cooperation with society We promote resource provision through collection of used stamps, eco-cap recovery etc. for the activities addressing resolution of social and environmental issues such as biodiversity conservatory.	Implement min.1 activities at each site (Total:13)	15 activities completed	Implement min. 1 activities at each site (Total:18)
	Activities as a good corporate citizen We continuously enhance social contribution activities that corporate members can take back to their communities.	Implement min.1,165h in total of all sites	1,567h performed	Implement min. 1,501h in total of all sites
<	Reduction of greenhouse gas (GHG) emissions We will reduce total emission amount of energy origin CO_2 by 30% compared to FY2000 (22,777t- CO_2) by FY2015.	Hold it down to below 15,640t-CO2	14,144t-CO ₂	Hold it down to below 16,421t-CO ₂
	Improvement of energy efficiency We will improve specific energy consumption in a facility by an average of 1% per year.		Av. 13.46% improvement	Improve rate min. 2% by an average of 3 objective sites.
	Promotion of reduction of CO ₂ emission in partner companies We will promote reduction of CO ₂ emission by all our partner companies.		Selected 201 & confirmed 154 carried program	Extend it to 204 (91.5%) among total 223 suppliers
ies		Reduce to less than 735t	610.9t	Reduce to less than 705t

7. Environmental Activities

Development of Eco-friendly Products

We strive to deliver eco-friendly products which improves customers' total environmental performance through continuous development of top level products in terms of energy efficiency, resource saving and resource circulation.

Improvements	Products	Products developed			
	Thermal printers	Mobile printer with one cell battery. Printing speed improved by 50% compared to our standard mobile printer			
Energy efficiency	Wireless modules	Ultra low power consumption <i>Bluetooth®</i> low energy(<i>Bluetooth</i> smart) module Top-level low power consumption in the market			
	Keyboards	Light weight keyboard(10% reduction on weight compared to our standard keyboard)			
Resource efficiency	Thermal printers	8-inch unit printer (50% reduction on weight compared to our standard unit printer.)			
Resource emciency		Unit printer with presenter (50% reduction on weight compared to our standard unit printer.)			
	Touch panels	Thin film construction (2% reduction on weight compared to our standard touch panel)			



1 cell battery operated mobile printer



Bluetooth low energy (Bluetooth smart) modules

■Management of restricted chemical substances in products

RoHS directives and REACH regulations have increased the range of applicable scopes and restricted materials and further tightened the management of those regulations. The FUJITSU COMPONENTS Group has adapted AIS⁽¹⁾ data to control the chemical substances in products and adheres to those regulations in Japan and other countries.

Note: (1) AIS: Article Information Sheet, a standard format recommended by JAMP (Joint Article Management Promotion-consortium to disclose/transmit information of chemical substances contained.

Green procurement

Our procurement has been performed with partners who accept the FUJITSU COMPONENTS Green Procurement Agreement in which we ask them to further improve the material control governance. That is not limited to and includes the "prevention of contaminated supply with restricted materials", "investigation and report of chemical substances" and also states the means to reduce the extra load at our partners.

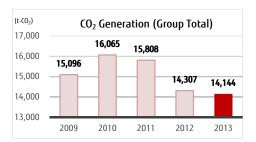
We strive to perform the environmental protection activities throughout the supply chain by building the environmental management system, enhancing various activities for global warming prevention.

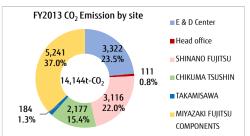
Conflict minerals

To address the trade of conflict minerals (tantalum, tin, gold and tungsten) which are extracted in conflict zones and perpetuate the fighting there, we have been reviewing our management policy to clarify the usage of these materials. We are also asking our suppliers to investigate the usage of those materials in their supply chains.

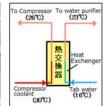
Global warming prevention activities

FUJITSU COMPONENTS group has continuously been engaged in energy- saving activities at each site to prevent global warming and reduce costs. Once an activity has been assessed, it is shared among group factories. LED lighting is commonly introduced. Excess energy consumption by air compressors and air conditioners has been minimized by using heat insulators on heat generating machines and exhaust air ducts. Heat exchangers have been introduced to re-use the heat that is generated by the machines to warm the water. We are trying to find and implement these new types of approaches.





Exhaust heat is re-used for water heating (Engineering & Development Center)



Reduction and re-use of exhaust heat (MIYAZAKI FUJITSU COMPONENTS)



LED lighting (MIYAZAKI FUJITSU COMPONENTS)



Improvement on energy efficiency

FUJITSU COMPONENT Engineering & Development Center, SHINANO FUJITSU and MIYAZAKI FUJITSU COMPONENTS have improving energy efficiency by 1% per year based on the specific energy consumption of FY2012.

				_	
Site name	Method	FY2012 (Base)	FY2013 Results	Ratio (%)	Major activities
FUJITSU COMPONENT Engineering & Development Center	Energy consumption/ sales amount	0.7710	0.5689	26.2	 Air-con electricity reduction by employing water cooling type compressors Reduction of oil used in humidifier boiler by employing water spray system to keep humidity levels
SHINANO FUJITSU	Energy consumption/ sales amount	1.633	1.574	3.6	 Replacement air-con with high efficiency type Reduction of compressor working hours by unifying two independent air systems
MIYAZAKI FUJITSU COMPONENTS	Energy consumption/ production qty	0.01577	0.01437	8.9	 Introduction of air-con demand control Introduction of Inverter type air blow

Industrial waste reduction management

All industrial waste such as metals, plastics, glasses and paper have been effectively recycled, especially rare materials are sorted at factories or metal recyclers.



Ag & Cu extraction from touch panel wastes (Engineering & Development Center)



Recycle for PC boards (SHINANO FUJITSU)

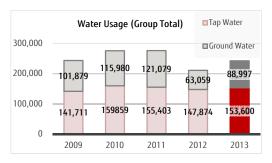


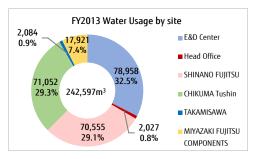
Cu extraction from PC Boards (SHINANO FUJITSU)



Water reduction activities

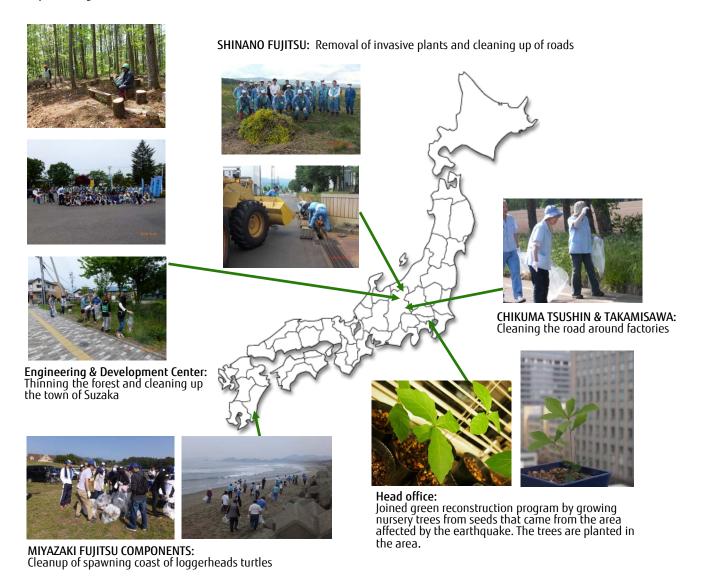
The tab water used in the plating /cleaning process and the ground water used in cooling the production facilities are drained after certain treatment and not recycled. We are currently studying how we can recycle and reuse the water, and therefore reduce our total water consumption.





Activities as good corporate citizens and community involvement

At of our each site our group engages in social contributions in which not only our employees but also their family members join to work closely with regional administrations.



8. Environmental Law Compliance

Measured items and results

			FY201	3 Measuring data			
_	Laws	Items	Unit	Legal threshold	Local threshold	Voluntary threshold	Result
Engineering & Development Center	Air Pollution Control	Sulfur Oxide concentration	Nm³/h	-	-	<u>,</u> ≤2.5	0.043
	Act	Nitrogen Oxide	ppm	260	180	≤150	59
ring	Noise Regulation Act	Morning, evening	dB	55-65	60	≤55	49.8
&		Noon time	dB	60-65	60	≤55	52.5
)evi		Night time	dB	50-55	50	≤47.5	47.0
l elop	Vibration Regulation	Noon time	dB	65-70	65	≤60	34.6
l ă l	Act	Night time	dB	60-65	60	≤55	35.4
) it	Sewerage Act	Hydrogen-ion concentration	рН	5.0~9.0	5.0~9.0	5.1~8.9	7.2~7.4
Cen!		Biochemical Oxygen Demand	mg/l	600	600	≤300	120
fer		n-hexane extraction(mineral oil)	mg/l	5	5	≤4	1.7
	Laws	Items	Unit	Legal threshold	Local threshold	Voluntary threshold	Result
	Air Pollution Control Act	Sulfur Oxide concentration	Nm³/h	-	-	<u>.</u> ≤1	0.0061
		Nitrogen Oxide	ppm	-	-	≤108	65
S		Morning, evening	dB	-	-	≤70	58.5
SHINANO FUJITSU	Noise Regulation Act	Noon time	dB	-	-	≤70	58.7
Ń		Night time	dB	-	-	≤65	57.7
IJ	Vibration Regulation	Noon time	dB	-	-	≤70	42
STII	Act	Night time	dB	-	-	≤65	36.4
		Hydrogen-ion concentration	рН	5.0~9.0	-	5.5~8.5	7.6
	Sewerage Act	Biochemical Oxygen Demand	mg/l	600	-	≤550	54
	Jewerage / Net	n-hexane extraction(animal/vegetable oil)	mg/l	30	-	≤15	1
	Laws	Items	Unit	Legal threshold	Local threshold	Voluntary threshold	Result
	N · D · L · · · · ·	Noise Regulation Act	dB	50	-	, ≤49	48.0
__ ≧		Noise Regulation Act	dB	55	-	≤53.9	46.5
MIYAZAKI FUJITSI COMPONENTS		Noise Regulation Act	dB	45	-	≤44.1	44.0
PS	Water Pollution Control Act	Hydrogen-ion concentration	рН	-	-	6.0~8.4	7.1 · 7.9
		Biochemical Oxygen Demand	mg/l	1	-	≤108	2.9
z <u> </u>	(Hidakajima plant)	n-hexane extraction(Mineral oil)	mg/l	5	-	≤4.5	0.5
	Private Sewerage System Act (Main plant)	Hydrogen-ion concentration	рН	-	-	4.0~8.4	6.6 · 7.5
		Biochemical Oxygen Demand	mg/l	1	-	≤23	19.0
)	Laws	Items	Unit	Legal threshold	Local threshold	Voluntary threshold	Result
CHIKUMA TSUSHIN Nozawa plant		Hydrogen-ion concentration	рН	5.8~8.6	-	6.0~8.4	7.4~7.5
MPZ/	Water Pollution Control Act (Hidakajima plant)	Biochemical Oxygen Demand	mg/l	160	-	≤108	0.9
IIKUMA TSUSH Nozawa plant		Tetrachloroethylene	mg/l	0.1	-	≤0.09	less than 0.001
US lan		Trichloroethylene	mg/l	0.3	-	≤0.27	less than 0.001
≅		Cis-1.2-dicholoethylene	mg/l	0.4	-	≤0.36	less than 0.01
\Box	Laws	Items	Unit	Legal threshold	Local threshold	Voluntary threshold	Result
l	Noise Regulation Act	Morning, evening	dB	-	-	≤70	52
		Noon time	dB	-	-	≤70	54
		Night time	dB	-	-	≤65	47
	Vibration Regulation Act	Noon time	dB	-	-	≤70	36
Shi		Night time	dB	-	-	≤65	35
ins A	Sewerage Act	Hydrogen-ion concentration	рН	5.0~9.0	-	6.0~8.9	8.4
d ni ⁄SIV		Biochemical Oxygen Demand	mg/l	600	-	≤≤300	5.4
TAKAMISAWA Shinshu plant		n-hexane extraction(Mineral oil)	mg/l	5	-	≤4.5	less than 1.0
	Laws	Items	Unit	Legal threshold (Ground water)	*Max. value at site	Max. value at ol (located downstrear	
	Measurement based on soil contamination	Tetrachloroethylene	mg/l	0.01	4.2	0.00)39
	on soil contamination Countermeasures Act	Trichloroethylene	mg/l	0.03	0.3	less thar	10.0005

^{*}Status of ground water contamination

We have observed soil cleaning and ground water monitoring since 1998 after contamination of water with chlorine organic compounds was found. We confirmed that the value measured at the observation well bordering to the site, which is located at downstream of ground water vein, in FY2013 was within the threshold and has not received any claims from neighborhood. We have also started the study of new cleaning method to complete purification.

Contact

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