

English edition



FUJITSU GENERAL GROUP ENVIRONMENTAL REPORT
富士通ゼネラルグループ 環境報告書 2016



FUJITSU GENERAL LIMITED
株式会社 富士通ゼネラル

TOP MESSAGE

The Paris Agreement, a new international framework towards a global society that does not rely on fossil fuels, entered into force in November, 2016. It was as unprecedentedly fast as less than one year after it was adopted. This trend should have a great effect on the growth strategies of enterprises, and regulation on energy saving and refrigerants will be accelerated and diversified globally in the air conditioner industry. It is anticipated that even higher level of energy saving performance will be pursued for the air conditioner units, and the rising pressure that encourages technological innovation will generate new business opportunities. The technological innovation towards a low-carbon society is in demand, not only for expanding the use of renewable energy, but for improving every energy consumption behavior that supports the society and daily lives of people.

Air conditioners, the key products of Fujitsu General, account for a large percentage in energy consumption in offices and homes. We are continuously improving the technologies including the airflow control and automatic operation that further enhance the energy efficiency and achieve both use efficiency and comfortability. Meanwhile, the promotion of energy conservation not through just the technology innovation and improvement of air conditioners, but as the system that utilizes new technologies, and creation of new value using the IoT are in progress. It is expected that with development of the IoT, comfortability and energy saving performance of air conditioners will be advanced, with an air conditioner considered as one of terminal on the internet in the near future.

We believe that it is important to accurately grasp changes in social environment around the air conditioner business, improve the technical skills, and offer attractive and competitive products and services.

To promote the global environment conservation through the business activities and contribute to sustainable development of society, Fujitsu General Group newly established the "Mid-Term Environmental Action Plan" in April 2016 as the goals to be achieved by 2030. At the same time, we also established the "Environmental Action Plan Stage VIII (FY2016 to FY2018)" as the action plans in the next three years toward achievement of the "Mid-Term Environmental Action Plan". Through these efforts, we will reduce the environmental burden and further enhance the enterprise value.

FY2015 was the final year of the Environmental Action Plan Stage VII, which was started in FY2013. We mostly achieved the initial goals on 17 issues for reduction in environmental burden. For the unachieved items, we will continuously make efforts in the Environmental Action Plan Stage VIII.



Etsuro Saito

President and Representative Director
Fujitsu General Limited

Corporate Vision • Environmental Policy

Fujitsu General is based on the common corporate vision as a member of Fujitsu Group and established “FUJITSU GENERAL Way” and “Fujitsu General Group Environmental Policy” rearranging “FUJITSU Way” and “Fujitsu Group Environmental Policy” of Fujitsu Limited for Fujitsu General Limited. Fujitsu General Group employees are practicing these vision and policy in daily activities.

FUJITSU GENERAL Way

FUJITSU GENERAL Way expresses the common practice of action that all the Fujitsu General Group employees should share and implement. United by a common philosophy and guidelines, The Fujitsu General Group aims to contribute to the creation of a comfortable and safe society.

Corporate Vision	Through our constant pursuit of innovation, the Fujitsu General Group contributes to the creation of a comfortable and safe society and brings about a prosperous future that fulfills the dreams of people throughout the world.	Managements Vision	<ul style="list-style-type: none"> • The Fujitsu General Group enlarges its business to worldwide • The Fujitsu General Group coexists with the world’s people in harmony • The Fujitsu General Group operates its business with open communication 																														
Corporate Values	<p>What we strive for</p> <table border="1"> <tr> <td>Society and Environment</td> <td>In all our actions, we save the earth and contribute to society.</td> </tr> <tr> <td>Profit and Growth</td> <td>We meet the expectations of customers, employees and shareholders</td> </tr> <tr> <td>Shareholders and Investors</td> <td>We continuously increase our corporate value.</td> </tr> <tr> <td>Global Perspective</td> <td>We think and act from a global perspective.</td> </tr> </table> <p>What we value</p> <table border="1"> <tr> <td>Employees</td> <td>We respect diversity and support individual growth.</td> </tr> <tr> <td>Customers</td> <td>We will be their valued and trusted partner.</td> </tr> <tr> <td>Business Partners</td> <td>We build mutually beneficial relationships.</td> </tr> <tr> <td>Technology</td> <td>We create new value through innovation.</td> </tr> <tr> <td>Quality</td> <td>We meet expectations of customers and society and enhance our reputation.</td> </tr> </table>	Society and Environment	In all our actions, we save the earth and contribute to society.	Profit and Growth	We meet the expectations of customers, employees and shareholders	Shareholders and Investors	We continuously increase our corporate value.	Global Perspective	We think and act from a global perspective.	Employees	We respect diversity and support individual growth.	Customers	We will be their valued and trusted partner.	Business Partners	We build mutually beneficial relationships.	Technology	We create new value through innovation.	Quality	We meet expectations of customers and society and enhance our reputation.	Principles	<table border="1"> <tr> <td>Global Citizenship</td> <td>We act as good global citizens, attuned to the needs of society and the environment.</td> </tr> <tr> <td>Customer-Centric Perspective</td> <td>We think from the customer’s perspective and act with sincerity.</td> </tr> <tr> <td>Firsthand Understanding</td> <td>We act based on a firsthand understanding of the actual situation.</td> </tr> <tr> <td>Spirit of Challenge</td> <td>We set highest goals and strive to achieve them.</td> </tr> <tr> <td>Speed and Agility</td> <td>We act flexibly and promptly to achieve our objectives.</td> </tr> <tr> <td>Teamwork</td> <td>We share common objectives across organizations, work as a team and act as responsible members of the team.</td> </tr> </table>	Global Citizenship	We act as good global citizens, attuned to the needs of society and the environment.	Customer-Centric Perspective	We think from the customer’s perspective and act with sincerity.	Firsthand Understanding	We act based on a firsthand understanding of the actual situation.	Spirit of Challenge	We set highest goals and strive to achieve them.	Speed and Agility	We act flexibly and promptly to achieve our objectives.	Teamwork	We share common objectives across organizations, work as a team and act as responsible members of the team.
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		Code of Conduct	<ul style="list-style-type: none"> ■ We respect human rights. ■ We comply with all laws and regulations. ■ We act with fairness in our business dealings. ■ We protect and respect intellectual property. ■ We maintain confidentiality. ■ We do not use our position in our organization for personal gain. 																														

Fujitsu General Group Environmental Policy

Fujitsu General Group Environmental Policy was established in 2003 as the environmental management corporate vision and corporate guidelines and revised in 2012 according to the change of social environment.

Philosophy

The Fujitsu General Group recognizes that global environmental protection is a vitally important business issue. We promote the sustainable development of society by contributing to creating a secure and comfortable society, and by providing people around the world with a future of prosperity and dreams. 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 strive to safeguard a rich natural environment for future generations.

Principles

- We help customers and society reduce the environmental impact of their business activities and improve environmental efficiency by providing thorough and secure products and services through the pursuit of advanced technologies.
- We strive to reduce the environmental impact of our products throughout their entire lifecycle.
- We are committed to conserving energy and natural resources, and practice the 3Rs approach (reduce, reuse, recycle) to create best-of-breed eco-friendly products.
- 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, products and services, and we utilize the resulting feedback 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 the preservation of biodiversity through their business and civic activities to be role models in society.

Fujitsu General Group Mid-Term Environmental Action Plan /Environmental Action Plan Stage VIII (FY 2016 - 2018)

As the concrete plans to implement the "Fujitsu General Group Environmental Policy", Fujitsu General Group established the "Mid-Term Environmental Action Plan", of which final target fiscal year is FY2030, and the "Environmental Action Plan Stage VIII", which is the environmental goal from FY2016 to FY2018. With the goal of contributing to the greenhouse gas reduction target of "26% reduction by FY2030 compared to FY2013" that Japan declared in COP21, we established the "Mid-Term Environmental Action Plan". To achieve the goal, we set out the goals of "Environmental Action Plan Stage VIII" by the backcasting approach.

Mid-Term Environmental Action Plan

We newly established the "Mid-Term Environmental Action Plan" for the purpose of sharing the goals to be achieved in the medium term among all the employees, working towards "enhanced product competitiveness" and "improved operational efficiency", and achieving both of environmental burden reduction and enterprise value improvement.

1. Activities for the customers and society

28% reduction of CO₂ emission from use of our products in Japan by FY2030 (compared to FY2013)

In order to enhance the capability to develop high value-added air conditioners with excellent energy saving performance while contributing to reduction of the environmental burden and pushing forward enhancement of the product competitiveness, we are aiming at reducing the average CO₂ emission from use of one unit of our air conditioner in Japan by 28% by FY2030 (compared to FY2013). As for the air conditioners for overseas markets, we will develop the products with higher energy saving performance and strive to reduce the environmental burden.

2. Activities for reducing our own environmental burdens

30% reduction of CO₂ emission associated with the business activities of our entire group by FY2030 (compared to FY2013)

By reducing potential wastes in every business processes while pursuing improvement and reform by reviewing the processes, we are aiming at reducing 30% CO₂ emission in the consolidated sales basic unit by FY2030 (compared to FY2013).

Environmental Action Plan Stage VIII

As the action plans in the next three years toward the achievement of the "Mid-Term Environmental Action Plan", we establish the "Environmental Action Plan Stage VIII (FY2016 - 2018)" and carry it out under the environmental management. For "the activities for customers and society", which is one of the goals in the "Mid-Term Environmental Action Plan", reduction of CO₂ emission by 8% in FY2018 (compared to FY2013) is set as the target.

Measures against global warming

- Reducing the CO₂ emission upon use of products by 8% (in Japan, compared to FY2013)
- Improving the energy consumption efficiency in the manufacturing base by at least 6%
- Improving the product transportation efficiency by 10%

Resource circulation

- Increasing the recycling rate through enhancement of decomposing and sorting capacities

Chemical substance management

- Strengthening the chemical substance management in the supply chain

Environmental social contribution

- Continuation by the respective offices of the contribution activities rooted in the regions

Environmental Action Plan Stage VII (FY 2013 - 2015)

FY2015 was the final year of the Environmental Action Plan Stage VII, which was started in FY2013. We have been engaged in 17 action items to accelerate measures for energy saving and reduction in environmental burden, and mostly achieved the target. For the unachieved items, we will make efforts in the Environmental Action Plan Stage VIII starting from FY2016.

Contribution to the society

All the newly developed products are green products. However, as the sales of non-certified old products still continues in certain countries and areas, the change is behind the schedule.

Therefore, the sales amount of green products remained at 304.1%. Also, as to the Super Green Products, which must pass the severer standard, it remained at 14.3%, despite the target of more than 30% of developed models. This is attributed to delay in establishment of the system for introducing R-32 refrigerant in the European market. We will further continue to develop a variety of products with excellent environmental performance.

With regard to development of new technologies, we developed the air conditioners using the R-32 refrigerant that feature the top-class energy saving performance in air conditioners, while achieving energy saving through improvement of the image quality of in-vehicle camera.

Change of our own business activities

Greenhouse gas / wastes

Regarding the reduction of greenhouse gas (energy CO₂) and wastes, the reduction target is achieved at Fujitsu General Group

as a whole. On the other hand, as for the reduction of the energy CO₂ emissions in overseas, the basic unit by production quantity was 6.5% minus against the target of FY2015 (92% compared to FY2012) due to enhancement of the development departments. As for the reduction of CO₂ emissions in domestic distribution, the total emission volume was reduced compared to FY2012, but in the basic unit control by sales quantity, it was 6.5% minus against the target of FY2015 (97% compared to FY2012). As for the reduction of domestic waste discharge, the total discharge was significantly reduced compared to FY2012, but in the basic unit control by labor hour, it was 2.3% minus compared to the target of FY2015 (76% compared to FY2012).





Specific chemical substances ^(Note 1)

Substitution regarding the organic solvent used in the production process has been examined, but it took time to select the most suitable substance, causing the timing for switching to be delayed, and it was not achieved.

Green procurement

The support for establishment of the CMS ^(Note 2) was not achieved because the actions by some of the overseas manufacturing group companies fell behind schedule. We will continue to support for establishment.

Contribution to the society

Target item (Target by the end of FY2015)		FY2014 results	FY2015 results	Progress	Pages
Development and expansion of supply to the market of environmentally -friendly products and technologies to reduce the burden to global environment through the lifecycle of products	Make all newly developed products "Green Products" ^(Note 3) .	100%	100%		P.13
	Increase the sales of "Green Products" to more than 400% compared to FY2012 by the end of FY2015.	235.8%	304.1%		P.13
	Make more than 30% "Super Green Products" ^(Note 4) in the ratio of the number of models to be developed.	30.4%	14.3%		P.13
	Develop Industry' s top level technology in environmental performance.	<ul style="list-style-type: none"> Conversion technology of R-32 refrigerant Resource saving of fire-fighting communication system 	<ul style="list-style-type: none"> Conversion technology of R-32 refrigerant Development of energy saving technology for in-vehicle camera 		P.13

(Note 1) Specified Chemical Substance : 3 substances of "Xylene" , "Toluene" and "2-Ethoxyethyl acetate" designated by Fujitsu General Group as chemical substance to be reduced as a result of evaluating toxicity and use volume.

(Note 2) CMS : Abbreviation of Chemical Management System of Chemical Management System.

(Note 3) Green Products / Super Green Products : Products certified independently by Fujitsu General as environmentally-friendly products. → P.13

Changes in Our Own Business Activities

Target item (Target by the end of FY2015)			FY2014 results	FY2015 results	Progress	Pages
Reduction of greenhouse gas emission in domestic base, overseas base and domestic product distribution	Reduction of energy consumption CO ₂ emission	Reducing in sales basic unit globally to less than 95% of FY2012 by the end of FY2015	73.6%	78.1%		P.8 P.20 P.21
		[Domestic] Reducing in sales basic unit of each area to less than 95% of FY2012 by the end of FY2015	92.1%	91.3%		P.8 P.20 P.21
		[Overseas] Reducing in energy basic unit of each area to less than 92% of FY2012 by the end of FY2015	92.6%	98.5%		P.8 P.20 P.21
	Reduction of CO ₂ emission in domestic logistics	Reducing in sales basic unit globally to less than 97% of FY2012 by the end of FY2015	99.6%	103.5%		P.8 P.21
Promotion of environmentally -friendly MONOZUKURI and suppression of emission of wastes and specific chemical substances	Reduction of waste emission	Reducing in sales basic unit globally to less than 80% of FY2012 by the end of FY2015	58.2%	62.1%		P.9 P.22
		[Domestic] Reducing in sales basic unit of each area to less than 76% of FY2012 by the end of FY2015	74.7%	78.3%		P.9 P.22
		[Overseas] Reducing in production basic unit of each area to less than 90% of FY2012 by the end of FY2015	79.6%	85.9%		P.9 P.22
	Reduction of specific chemical substances	Reducing emission of specific chemical substances used in production	20.2% compared to FY2012	22.9% compared to FY2012		P.9 P.23
Operation efficiency improvement and level-up of Environmental Management System (EMS) ^(Note4) in all domestic and overseas business centers	Improving company-wide environmental promotion framework and enhancing efficiency by the end of FY2015	Indexing negative cost (wastes generated in performing work) converting CO ₂	· Established conversion formula · Established operation rule	CO ₂ indexing of repair replacement parts (domestic air conditioners) completed		P.13
	Establishment and level-up of EMS at all overseas parts / material suppliers...Increasing EMS established suppliers to more than 80%		72%	82%		P.14
	Strengthening chemical substance management system (CMS) at suppliers... Increasing chemical substance management system established suppliers to more than 80%		74.9%	89.3%		P.14
Concrete activities for biodiversity conservation	Tackling biodiversity conservation activity through biotope	Implemented continuous monitoring and conservation measures	Content review for Biotope utilization activity		P.10	
	Promoting biodiversity conservation activity to business offices and suppliers	Implemented continuous contents of measures	Implemented continuous contents of measures		P.10	

Progress : Progress against Planning by the end of FY2015

... Progressing as per planning

... Being delayed against planning

(Note 4)EMS : Abbreviation of Environmental Management System.

Activities in Business Operations

Greenhouse Gas (GHG) Emission

Activities of business offices for the reduction of energy CO₂

Reduction of power consumption by introducing LED lighting and reducing the number of lights

Fujitsu General Group is working on the reduction of power consumption by introducing LED lighting and reducing the number of lights. FUJITSU GENERAL (THAILAND) CO., LTD. has changed the bodies of lightings in the production process from mercury lamps and fluorescent lamps to wide angle LEDs, reducing the number of lights equipped in the lighting fixtures by 28% and saving the power consumption by 842 MWh per annum, which is equivalent to 65% of electricity used for lighting.

Power saving by reviewing the compressor of nitrogen generator

FUJI ECO CYCLE CO., LTD., the company engaged in recycling of used home electric appliances, consumes about 20% of the electricity used in the premise in the nitrogen gas generator to fill nitrogen gas in the large crushing equipment. Since the generator was operated at the constant speed by using the large compressor, it was running at the maximum burden all the time regardless of the used amount of nitrogen. Focusing on this waste, the company reviewed the operation to run the generator by using two middle-size compressors so that the load of the compressor can be adjusted according to the used amount of nitrogen and adopted the inverter in one of the compressors. By this change, the power consumption is reduced by 85 MWh per annum, which is equivalent to 29% of electricity used by the nitrogen generator.

Activities regarding handling of refrigerant Freon

Enhancement of skill of workers handling Freon

Fujitsu General Group is conducting technical training periodically for the employees engaged in the work of filling and collecting refrigerant Freon and distributors handling our products to enhance the recognition of the risk of Freon leakage and maintenance / improvement of skill for certain work.



Training for service staff handling Freon

Measures to prevent the leak of Freon in the air conditioner production process

At present, Fujitsu General air conditioners are manufactured by 3 group companies of Fujitsu General (Shanghai) Co., Ltd, Fujitsu General Central Air-Conditioner (Wuxi) Co., Ltd., and Fujitsu General (Thailand) Co., Ltd., and those 3 companies are handling refrigeration Freon in the production process.

Each company is striving to reduce the leakage by grasping the gap between purchase quantity of Freon for refrigerant and filling quantity for products. Especially, besides purchasing the filling equipment to be able to collect Freon remaining inside the filling nozzle, the daily inspection of production facility related to Freon is conducted by technical staff.

Measures to prevent the leak of Freon in recycle plant

Fuji Eco Cycle Co., Ltd. engaged in the recycling of electric home appliances is establishing the system so that staff can deal with even slight change of weight in the cylinder after collection by the automatic report function by storing and controlling temporarily the cylinder collecting Freon for refrigerant in the used products on the exclusive platform scale.

Suppression of greenhouse gas emission in distribution

Activity of joint distribution in Japan

We are improving the product distribution in Japan by joint transportation with other companies and reducing the transfer of products between warehouses by improving accuracy of sales planning.

In FY2015, we reduced the transfer of products between warehouses by increasing direct delivery from the port of discharge. To further reduce the transfer of products between warehouses, we carefully examined the stock on the ocean upon marine transportation and the sales planning on the market, and changed the operation; before, the products were brought in to our designated warehouse from the port of discharge, and then delivered to respective customers, but now, the necessary number of products are directly sent to the relevant warehouses or customers. We will verify the effect of this change and further improve the logistical efficiency.

Wastes / Chemical Substance/ Water resources

Activity to reduce wastes

Thorough sorting of wastes

The thorough sorting of the wastes is practiced at group companies of each country and area and such item as the used fluorescent tube of which the environmental pollution by mercury is concerned is disposed appropriately.



Waste sorting sites in group companies
(Left: Shed for fluorescent lamps at FUJITSU GENERAL (SHANGHAI),
Right: Shed for wastes at FGA (THAILAND))

Reuse of packaging materials for delivery

Fujitsu General Group is reusing packaging materials used for delivery of materials and parts.

Fujitsu General (Shanghai) Co., Ltd. and Fujitsu General Central Air-Conditioner (Wuxi) Co., Ltd. are reusing packaging materials (paper) and wooden palette used for delivery of production materials in cooperation with vendors.

At Aomori Business Office, the wooden palette of 1.0 tons per annum used for delivery of parts is given to be effectively used as fuel for heating.

Activity to reduce chemical substance

Currently, the motors used for air conditioners are manufactured by Aomori Business Office, F.G.L.S. Electric Co., Ltd. and FGA (Thailand) Co., Ltd. which are group companies. In the production process of motors, organic solvent such as Xylene and Toluene is used and so, the replacement to medicine with low content rate of organic solvent is now under examination.

Also, for the prevention of pollution and labor hygiene, the special attention is paid for the control of chemical substance used. For example, at Fujitsu General (Shanghai) Co., Ltd., it is considered that all employees can recognize the characteristics of the chemical substance by posting all MSDS ^(Note 1) of chemical substance used so as to enhance the awareness regarding safety and risk of chemical substance.

(Note 1) MSDS: Material Safety Data Sheet.

Water resources

Water conservation by water leakage prevention

Fujitsu General Group is working on the reduction of water usage through thorough inspection of the facilities and by making employees conscious.

Fujitsu General (Shanghai) Co., Ltd. thoroughly inspects the common facilities including the valves, pumps and taps of toilets to prevent water leakage.

Fujitsu General Central Air-Conditioner (Wuxi) Co., Ltd. mounted a new valve on the branch water pipe of the fire-fighting water pipe within the premise of the factory to prevent water leakage, and inspects the water meter every day to thoroughly check that the water is not leaking.

Also, at the manufacturing group companies where large number of employees are working, the water saving is called for through education and poster notice on the bulletin board to maintain the water saving awareness of workers.



Valve mounted on branch water pipe in Fujitsu General Central Air-Conditioner (Wuxi)

A poster on water saving in Fujitsu General (Shanghai)

Reduction of cooling water used at facilities

FGA (THAILAND) CO., LTD. is working on the reduction of cooling water used for the bracket processing and shaft polishing in the motor production process. By suppressing generation of bacteria by filter replacement and supplying liquid agent that extends usage life of cooling water, the amount of used cooling water was reduced by 18% in comparison with the result in FY2014.

Pollution measures / Biodiversity

Noise / Vibration

Both noise and vibration levels at the manufacturing and recycling group companies are largely below the regulation level. Also, there was no introduction of facility / instrument in FY2015 which is increasing factor of noise and vibration

Groundwater purification

At Aomori Business Office, as the organic solvent exceeding the legal standard was detected from groundwater in the examination for soil and groundwater conducted in 1999 (then Aomori Fujitsu General), the groundwater purification facility was installed and the purification and progress measurement are conducted every year.

In FY2015, the measured value was less than measurement lower limit level in all of four observation wells.



Groundwater purification facility (Aomori Business Office)

Biodiversity

When renovating the premises, Fujitsu General Group is conducting the expansion of green area and maintenance of water storage facility considering the influence to neighboring ecosystem.

Aomori Business Office

Aomori Business Office is surrounded by ecosystem rich area with miscellaneous trees dotted around. Therefore, consideration is given so as to maintain the ecosystem while securing convenience of the life by maintaining the green area of the town road part around the office.



Green area maintenance around Aomori Business Office

FUJITSU GENERAL (THAILAND) CO., LTD.

As the trees within the industrial estate are limited to the street trees and green area of premises, the planting of trees is made in the green area of the premises so as to expand the biotope of the creature and utilize as a place of recreation for employees.



Planting of trees at Fujitsu General (Thailand)

Head Office

Around the head office where urbanization advanced, the importance of green area is recognized anew. At the head office, the green area was made on the warehouse site (current R&D Center) in 1986 and on the refrigerator factory site (current Air Conditioner R&D Center) in 2007.8 years passed after the maintenance, and on the green area of the refrigerator factory site, trees are growing up wealthily. These green areas are contributing to the formation of the green corridor which is the movement course for the creature in the area.

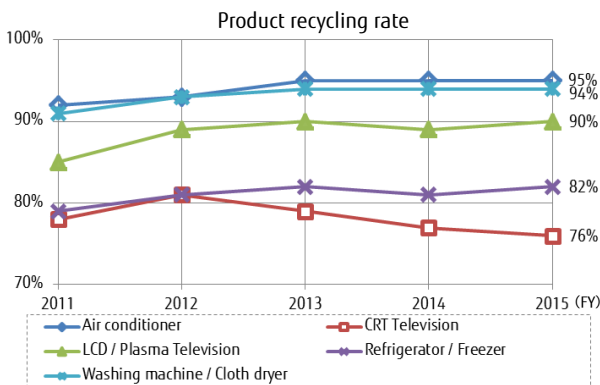
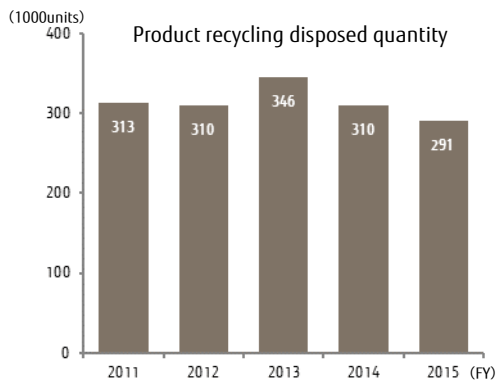
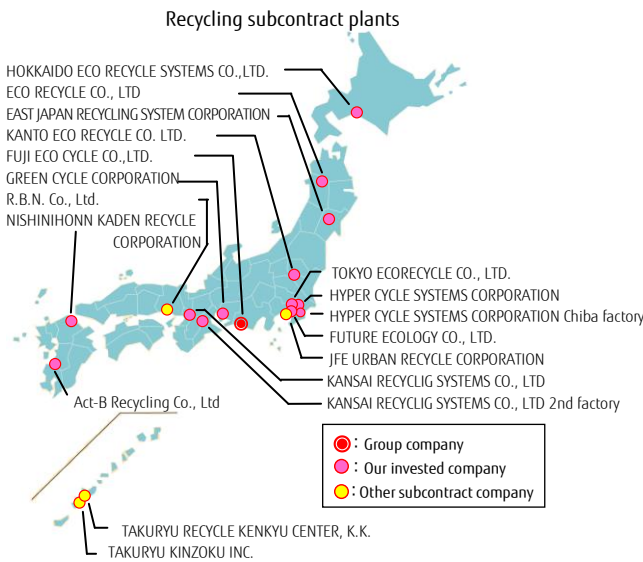


Green area of head office (Ex-refrigerator factory site)

Recycling (Products / Packaging)

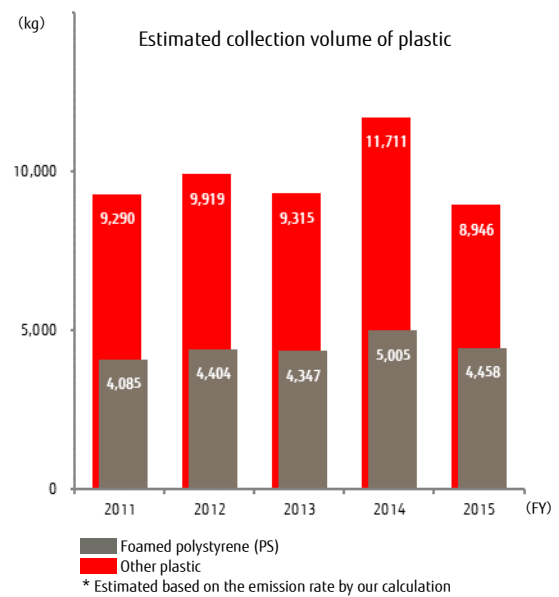
Electric Home Appliance Recycling (Japan)

Fujitsu General established about 350 specified collection places all over the country jointly with other electric home appliance makers and is collecting the used appliances of our company (air conditioners, televisions, refrigerators / freezers, washing machines / cloth dryers). As to these used products, we are implementing the recycling and collection of Freon by subcontracting to recycling plants at 18 places of the country.



Packaging Recycling (Japan)

Out of the products sold in Japan, packaging materials except cardboard are recycled through The Japan Containers and Packaging Recycling Association. The estimated collection volume of plastic packaging in FY2015 is 13,404kg. Fujitsu General will continue to reduce the packaging of products in the future.



Product Recycling (other than Japan)

In various countries and areas in the world, legislation and designing of framework are progressing. For the export products, Fujitsu General is promoting the activities to comply with the recycling system of each destination country and area for export.

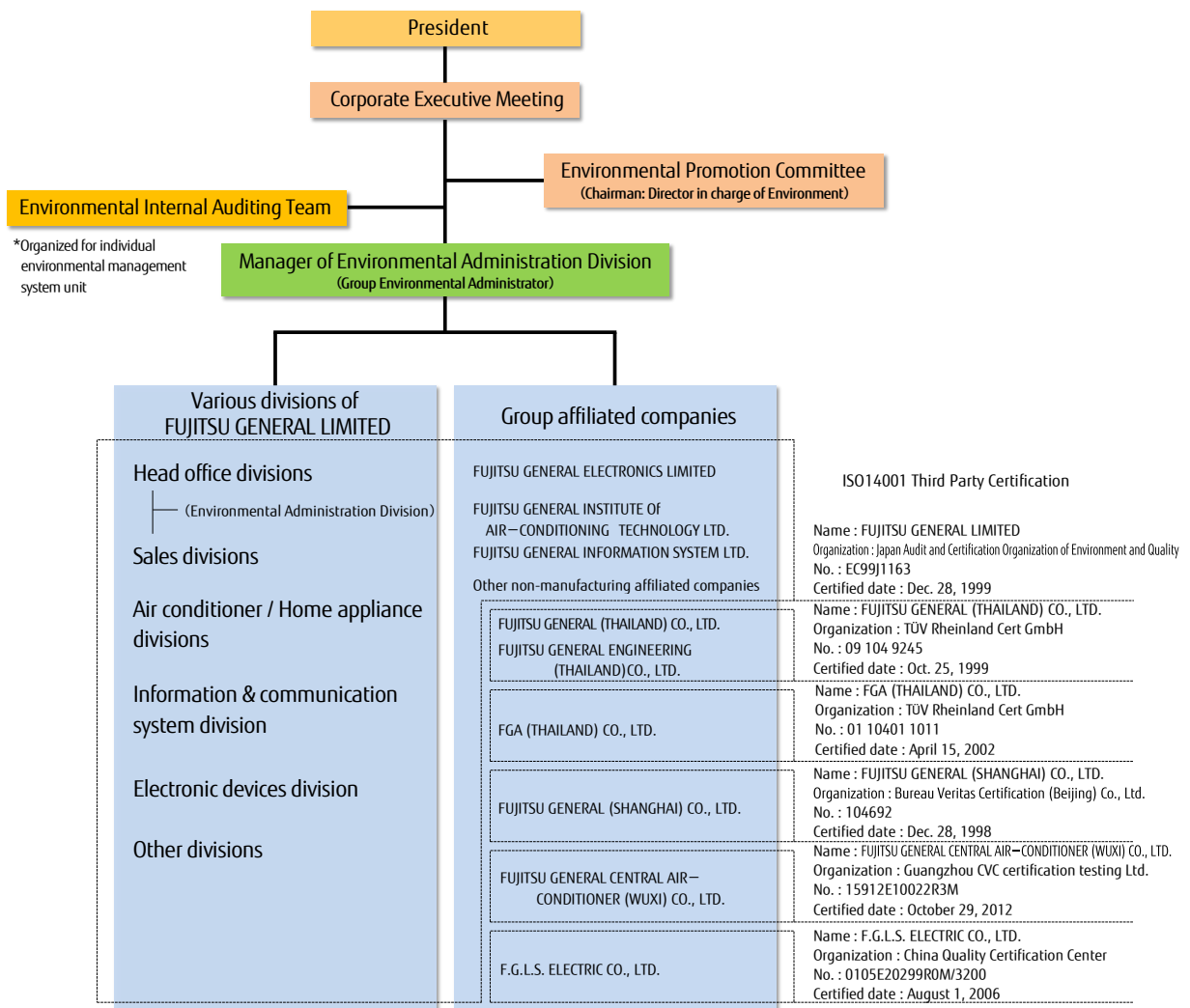


Indication of mark according to the "WEEE Directive" of EU (Products for EU area)

Environmental Management Governance Framework

Framework of Environmental Management

Fujitsu General Group assumes the environmental management system based on ISO14001 a base of the foundation of environmental management. Within the group, the sales companies in Japan and abroad acquired the integrated certification of the third party certification. On the other hand, the overseas manufacturing companies acquired the third party certification by each company (factory) individually. Furthermore, such individual environmental management system is integrated by establishing the Environmental Promotion Committee of Fujitsu General Group.



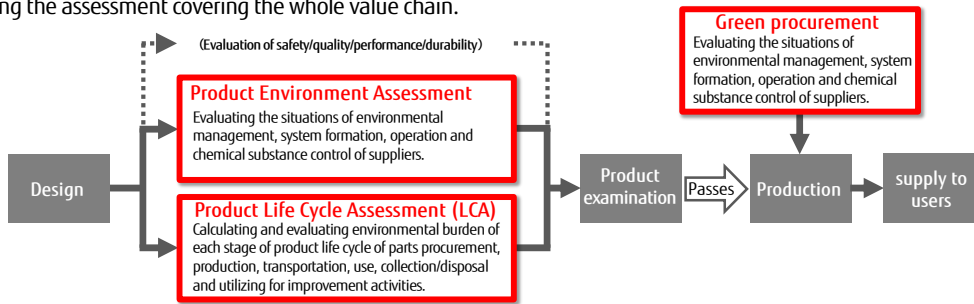
History of Environmental Activities

- 1978 : Environmental Pollution Prevention Committee established.
- 1986 : Green land garden built on the warehouse remained site.
- 1991 : Environmental Protection Promoting Committee established.
- 1993 : "Fujitsu General Commitment to the Environment" established.
Environmental Action Plan started.
- 1995 : Operation of Product Environmental Assessment started.
- 1998 : Acquisition of ISO14001 third party certification started.
The measures for electric home appliance recycling started.
- 1999 : "Environmental Report" published.
- 2000 : Environmental Administration Division established.
Operating company of electric home appliance recycling established in joint venture.
Operation of "Environmental accounting" started.
- 2003 : "Fujitsu General Group Environmental Policy" established.
- 2012 : "Fujitsu General Group Environmental Policy" revised.
"Fujitsu General Group Biodiversity Action Principles" established.
"Biotope" established at Hamamatsu Business Office.
- 2013 : Acquired ISO14001 third party certification for all business areas of group.

Environmental Assessment of Products

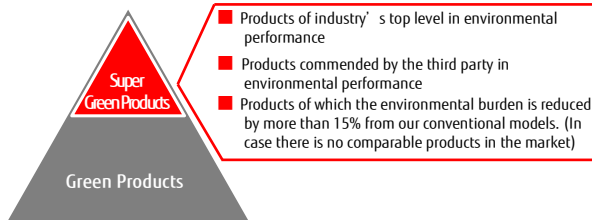
Various Assessment Systems regarding Product Environment

As the influence and risk on the environment of products are related to the various work process of Fujitsu General Group, we are implementing the assessment covering the whole value chain.



Standard and Evaluation of Product Environment Assessment

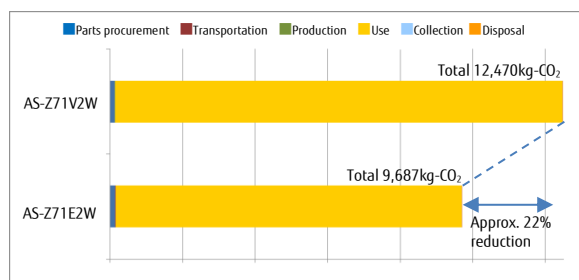
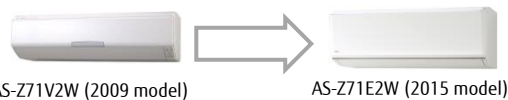
"Green Products" are the products of which overall assessment score is higher than standard point (80 points) and there is no lowest point in all assessment items. And among them, the products which have the top level ^(Note1) of environmental performance are designated as "Super Green Products".



Product Life Cycle Assessment (LCA)

We are working on the reduction of environmental burden at each stage by assessing the environmental burden of product lifecycle at the time of designing by Fujitsu General's own automatic calculation system.

Calculation example of environmental burden in product lifecycle
(Air conditioner "nocria" Z-series of cooling capacity 7.1kW type)



(Note 1): In case of the first place, first place tie, or a close second

Introduction of development example of the super green product

Room air conditioner "nocria" X series
(AS-X63E2W, AS-X71E2W, AS-X80E2W)

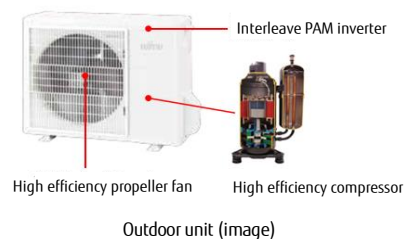
[Reason for certification] The product has the best environmental performance in the industry



By "DUAL BLASTER" side fans equipped on both sides of indoor unit, "nocria" X series can provide 2 kinds of airflows ("cooling and heating airflow" and "room temperature airflow") of different "temperature and speed" to every corner of the room. It creates airflow like wrapping human body in cooling mode and like creeping on a floor in heating mode, which enhances the comfortability and suppresses the waste of electricity.

Enhancement of energy saving performance

By adopting the indoor unit with the new structure and the high efficient compressor, the periodic power consumption 2,276kWh was achieved together with high output power heating (rated heating capacity 9.2kW at low temperature) in 7.1kW class.



Large ceiling cassette of the commercial air conditioner for Europe (AUXG18LRLB/AOYG18LBCA)

[Reason for certification]The product has the best environmental performance in the industry



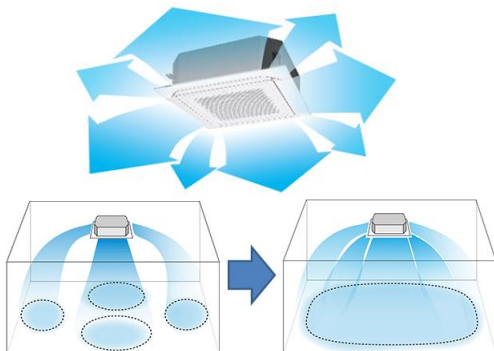
For the large ceiling cassette for the European market, energy saving performance, comfortability and installation workability are significantly improved in comparison with our conventional models to meet customer needs.

Improving the energy saving performance significantly by our original technique

The energy saving performance was significantly improved with the "new large indoor unit" that adopts the latest technique that we have developed in Japan for "high density multi-path heat exchanger" and the "high performance outdoor unit" that is equipped with the "high efficiency DC rotary compressor" and "inverter control" that are developed with our original energy saving technique.

New indoor unit with improved comfortability and freedom in the wind direction control

The new air blow design enables the 360 degree all direction blown-off airflow. Cooling/ heating air currents are supplied to all directions, allowing efficient air conditioning to every corner of a room, eliminating unevenness of temperature to improve comfortability.

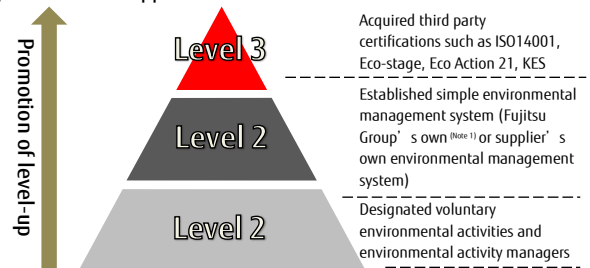


(Left) Conventional 4-direction air blow
(Right) Air conditioning with less unevenness of temperature to every corner of the room by all directional air blow

Green procurement

Environment burden in manufacturing process of parts / software

We, at whole Fujitsu General Group, are asking all our suppliers for the establishment of environmental management system. The environmental management system of the suppliers are classified by the level of establishment and we are assisting the establishment and operation of environmental management system for the suppliers of level 1.



Management of chemical substance contained in parts

Fujitsu General Group is implementing the survey of the contained chemical substance by AIS (Note 2)/MSDS Plus (Note 3) provided by JAMP (Note 4) and at the same time, asking suppliers to establish CMS (Note 5) based on the "Product contained chemical substance guideline" .

Regarding CMS of suppliers, auditing staff of Fujitsu General Group are visiting suppliers and checking the situations of establishment and operation and if necessary, supporting the level-up as needed.

(Note 1) Fujitsu General Group's own: Fujitsu Group Environmental Management System (FJEMS). The Environmental Management System provided by Fujitsu Group on its own aiming to eradicate a root for the environmental protection activities along PDCA by narrowing down the items of requirements of ISO14001.

(Note 2) JAMP: (Joint Article Management Promotion-consortium)

(Note 3) AIS: (Article Information Sheet) Transmission sheet of chemical substance contained in molded articles.

(Note 4) MSDS Plus: (Material Safety Data Sheet Plus) Transmission sheet of chemical substance contained in chemical substance/compounding agent.

(Note 5) CMS: Chemical substance Management System

Emergency Case

Training for Emergency

Measures against fire / disaster prevention

Each company of Fujitsu General Group is verifying the risk of environmental pollution in case of fire and implementing the training periodically. Especially, in the group companies manufacturing air conditioners where many plastic parts and materials are stored and the discharge of harmful gas due to combustion by fire is concerned, hands-on training focusing the experience is conducted in cooperation with fire-fighting organization in the area where the factory resides.



Fujitsu General (Shanghai)



FGA (THAILAND)



Fujitsu General Central Air-Conditioner (Wuxi)

Measures for oil leakage

The business offices and group companies storing boiler fuel and oil such as heavy oil for power generation in an emergency are conducting accident handling training periodically assuming the leakage accident.



FGA (THAILAND)

Prevention of pollution of chemical substance

To prevent pollution by chemical substance, the procedure to prevent the diffusion at the time of leakage is checked periodically.

Also, the equipment using polychlorinated biphenyl which was used in the factory premises in the past and the parts containing polychlorinated biphenyl used for the collected products are stored properly in the special storage warehouse of the head office until destruction treatment is carried out.



Training to handle thinner leakage accident at head office

Polychlorinated biphenyl inside the storage of at head office

Measures against large-scale disaster

As Hamamatsu Business Office is situated in the seismic center area (estimated maximum seismic intensity 7) of Nankai Trough giant earthquake and visited by many people, the measures at the time of suffering is an important issue. Therefore, the training supposing the outbreak of large-scale disaster is conducted with the participation of all people working in the office.



Evacuation and rescue training supposing the disaster at Hamamatsu Business Office

Environmental Auditing / Environmental Education

Environmental Auditing

Internal environmental auditing

For the purpose of the assessment management of environmental management risk by the top management, the Internal environmental auditing is established and implemented for every third party certification range of ISO14001 (group integrated certification and 5 individual certifications). Also, at the manufacturing business office (1 place), manufacturing group company (1 company) and recycling group company (1 company), each individual internal environmental auditing is established, and the environmental internal auditing is implemented for each business office and group company.

Furthermore, to implement high quality auditing, the maintenance and enhancement of ability of environmental internal auditors are made through the training of auditors.

Result of FY2015 internal environmental auditing

Category	Number of indications/ improvements
Incompatibility concerning deviation risk of environmental laws	6
Incompatibility concerning other environmental risk	29
Recommendation of implementation of improvement	62



Training of the skill enhancement for environmental internal auditors at Fujitsu General (Shanghai)

External environmental auditing

External auditing by ISO14001 examination company is conducted periodically as a whole group area to keep the fairness of environmental management system.

Category	Number of indications/ improvements
Incompatibility concerning deviation risk of environmental laws	6
Incompatibility concerning other environmental risk	4
Recommendation of implementation of improvement	47

Environmental Education / Enlightenment

Environment education

Fujitsu General is conducting the environmental education at the new employee training and executive staff training which is the basic education of human resources and also implementing the environmental education systematically at various work places.

In order to train internal environmental auditors and improve their skills, we invite external lecturers to educate auditors.



Environmental education for new employees



Education for internal auditors



Environmental education for newly assigned executives

Environmental enlightenment for employees

We are conducting various events for the enlightenment of employees during months for environmental enlightenment promotion designated by the nation or the industries.

At head Office, the lecture on ecological driving was held in June and the practical skill training session was held in November to experience ecological driving mainly for employees in the sales and service departments who have many opportunities to drive vehicles on the job, with cooperation from Japan Automobile Federation (JAF) and Kawasaki Center for Climate Change Actions.



Practical skill training session
(The event held in the month to promote ecological driving)

Environmental Communication

Environmental Report

Fujitsu General has been publishing environmental report every year since 1999 reporting the environmental activities of Fujitsu General Group along with the message of Top Management. Also, as the transmission of environmental information via website is enriched, the environmental report can be obtained by anybody on the website.



Environmental page on the website



Environmental Report

Catalog / Exhibition

We introduce the environmental technologies of respective products while making proposals for products through the catalog and exhibition.



2015 product catalog



Exhibition of the air conditioners (China)

Communication with suppliers

Green Procurement Directions/ Specified Chemical Substances List

Fujitsu General is promoting green procurement activities in tie-up with Fujitsu Group companies and requesting for transactions in accordance with “Green Procurement Directions” and “Specified Chemical Substances List” that are shared by Fujitsu Group.



Fujitsu Group Green Procurement Directions (Chinese / English / Japanese)



Fujitsu Group Specified Chemical Substances List (Chinese / English / Japanese)

Measures for chemical substances contained in the products

To control the chemical substances contained in the products by the supply chain as a whole, we are introducing the chemical substance control system of Fujitsu General Group to suppliers and also asking for the cooperation regarding the establishment of chemical substance control system at suppliers.

Explanation meeting for suppliers

We arrange the explanation meeting for suppliers to introduce the environmental performance of the products to many customers.



Explanation meeting for suppliers (India)

Social Activities / Commendation

Participation in social activities concerning environment

Participation in volunteer activities of Fujitsu Limited

Fujitsu Limited is conducting a volunteer activity jointly with Kawasaki City to prevent the forest devastation in the special green space conservation area which is a precious nature remaining in the city suburbs. The employees of Fujitsu General are also participating. In FY2015, we made a cooperation for the cutting and weeding in bamboo grove.



Green space conservation activity in Kawasaki City

Local weeding / cleaning activities

Aomori Business Office is cooperating for the maintenance activity such as weeding of the plants on the Shichinohe-machi road to which both the business office and JR Shichinohe-Towada Station are adjacent. Also, Fujitsu General Electronics Limited is participating in the cleaning activity around JR Ichinoseki Station.



Weeding of the plants



Cleaning activity

Eco-cap campaign

We are participating in the "Eco-cap campaign", which supports the vaccination for the children in the developing countries through the recycling of pet bottle caps.

In FY2015, the total of 139,640 bottle caps were collected in the group offices, and the profit on sale was donated to the Authorized NPO "Japan Committee, Vaccines for the World's Children" through Eco-chan Club, Group MATE, and Shineikasei KK.



Dedicated collection box



Collection of pet bottle caps

Commendation

We were commended for the product performance and business activities relating to environment.

Award by the customer satisfaction survey agency in Australia

FUJITSU GENERAL (AUST.) received the "Canstar Blue Most Satisfied Customers Award" in FY 2015 in the room air conditioner market in Australia. This award is granted by Canstar Blue, the agency that surveys the customer satisfaction on various products and services available in the market, only to the company that received the highest evaluation. The evaluation is made based on the questionnaire survey targeting the consumers who bought air conditioners within the most recent 2 years by way of five grade (1 to 5) evaluation of the overall evaluation and the individual evaluation for six categories including price, reliability, after-sale service, ease of use, functionality and low noise operation. FUJITSU GENERAL (AUST.) received five star among a number of air conditioners, and was evaluated as the brand that earned the highest customer satisfaction.

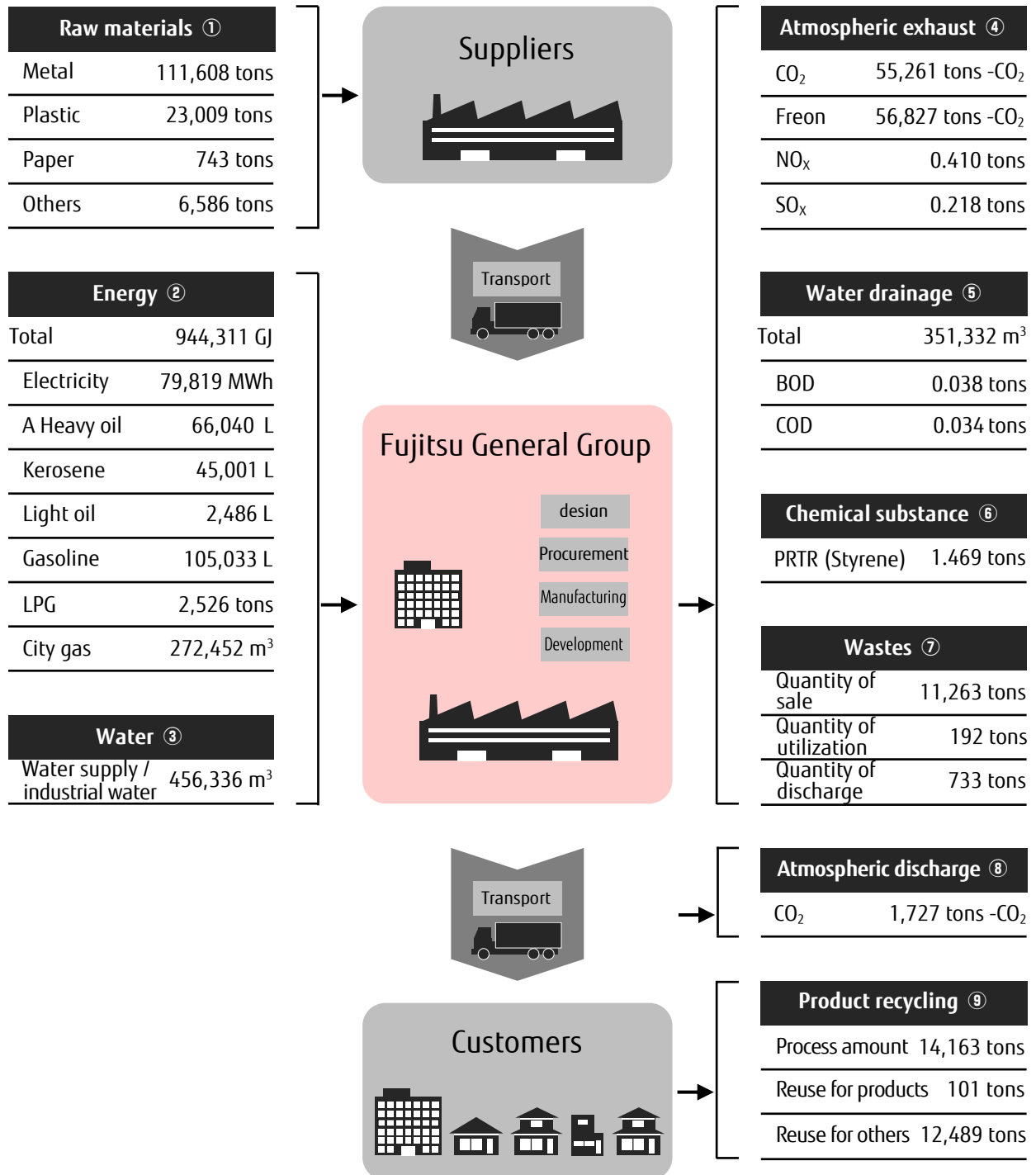


Logo of "Canstar Blue" (left) and the certificate (right)

Data Overview

Material Balance

FY2015 Actual Results



- [Note]**
- This table does not include the data of non-manufacturing overseas group companies.
 - Except "CO₂" of ①, ② and ④ and ⑦, the data of F.G.L.S Electric Co., Ltd. is not included.
 - "NO_x" and "SO_x" of ④, "BOD" and "COD" of ⑤, ⑥, ⑧ and ⑨ in this table show only the data in Japan.
 - ⑥ covers the chemical substances of which handling amount in FY 2015 in the domestic business offices and group companies was 1,000kg or more.

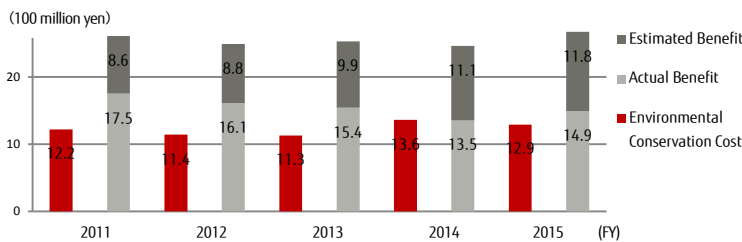
Environmental Accounting (FY2015)

Environmental Conservation Cost (million yen)			
Item		Main Contents	Cost
Business Area Cost	Pollution Prevention Cost	Air / water pollution prevention, etc.	130
	Global Environmental Conservation Cost	Global warming prevention / Energy saving, etc.	494
	Resource Circulation Cost	Resources effective use, industrial waste disposal, etc.	244
Upstream / Downstream Costs		Collection / Recycling of used products, etc.	38
Administration Cost		Environmental management system, etc.	35
R&D Cost		R&D of environmentally-friendly products, etc.	346
Social Activity Cost		Donation for natural environmental protection, etc.	5
Environmental Remediation Cost		Repair cost relating to land and groundwater pollution	0
Total			1,292

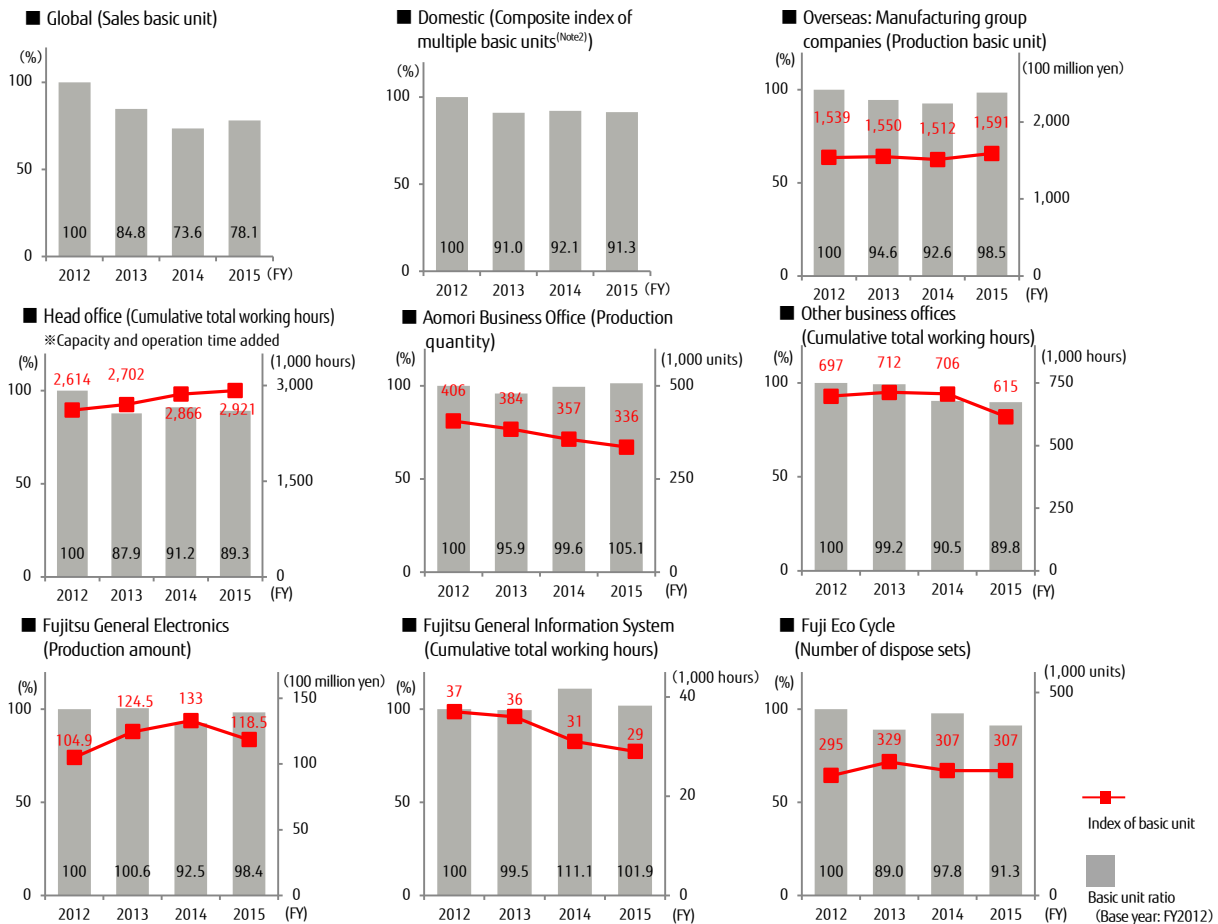
Economic Benefit Associated with Environmental Conservation Activities (million yen)		
Item	Main Contents	Benefit
Estimated Benefit	Assumed effect by control of environmental protection facility and development of environmentally-friendly products	1,181
Actual Benefit	Profit on sale of valued articles, reduction of waste disposal cost, etc.	1,491
Total		2,672

Cost and economic benefit in FY2015

As a result of aggregation of data in FY 2015, the environmental preservation cost was 1.29 billion yen (reduced by 5% compared to the previous fiscal year), and the economic benefit associated with the measures for environmental preservation was 2.67 billion yen (increased by 8% compared to the previous fiscal year). Increase in sales proportion of the green products and promotion of disposal of wastes for value resulted in increased economic benefit associated with the measures for environmental preservation.



Environmental Protection Program: Greenhouse gas^(Note1) basic unit control



(Note 1) CO₂ emission coefficient

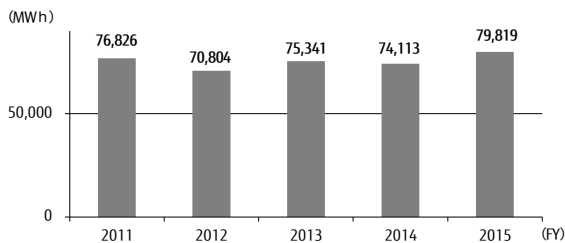
●Electricity: Domestic "0.407t-CO₂/MWh", Overseas "0.410t-CO₂/MWh"

●Fuel: Based on the "Guideline for Calculating Total Greenhouse Gas Emissions" (March, 2007) issued by the Ministry of the Environment.

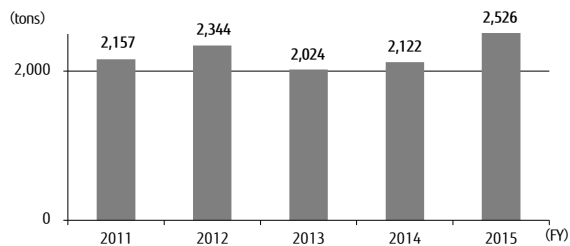
(Note 2) The total value of the Head Office, Aomori Business Office and other business offices, Fujitsu General Electronics Limited, Fujitsu General Information System Limited, and Fuji Eco Cycle Co.,

Energy

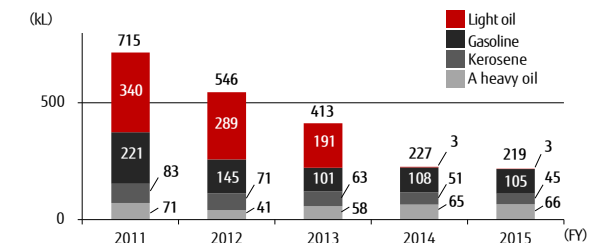
Electricity



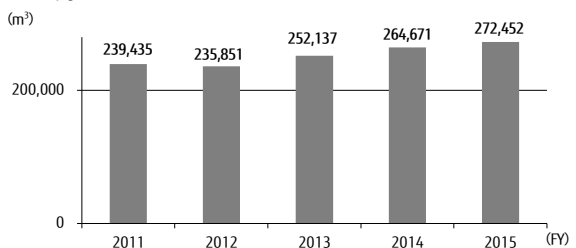
LPG



Oils

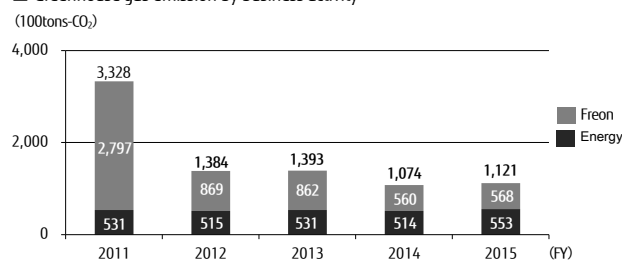


City gas

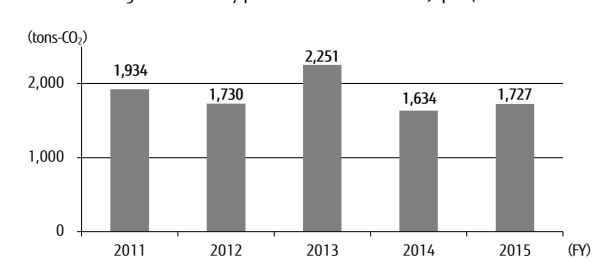


Greenhouse gas^(Note1)

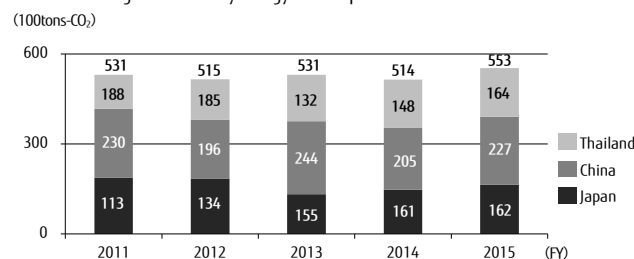
Greenhouse gas emission by business activity



Greenhouse gas emission by production distribution in Japan (Estimated value)

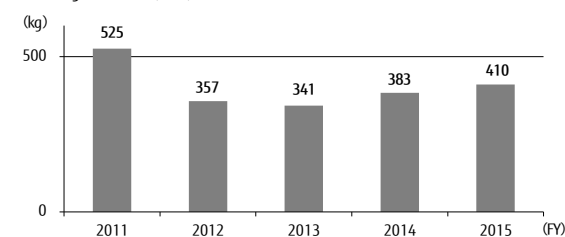


Greenhouse gas emission by energy consumption

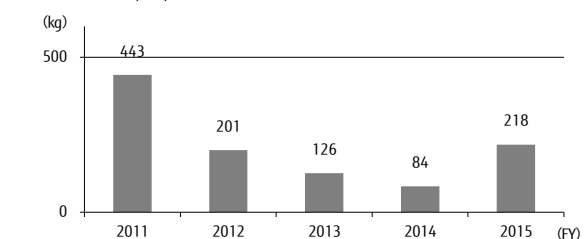


Air pollutant

Nitrogen oxides (NO_x)



Sulfur oxides (SO_x)



(Note 1) CO₂ emission coefficient

● Energy <electricity> Japan: Based on the actual emission coefficient (in the previous fiscal year) of the respective electric power suppliers

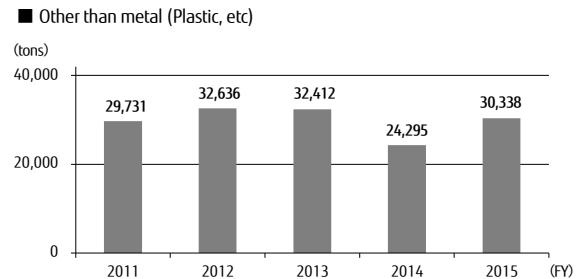
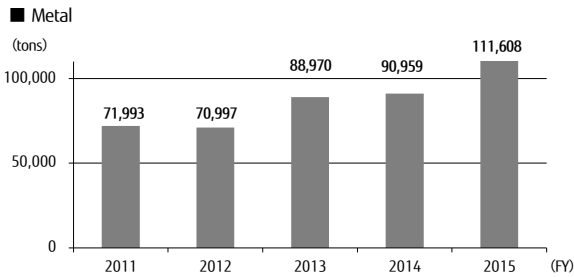
Overseas: Based on the GHG protocol emission coefficient of the respective countries (in the previous fiscal year)

(the data on the emission coefficient of FY 2014 and 2015 is not disclosed, so the coefficient of FY 2012 is used)

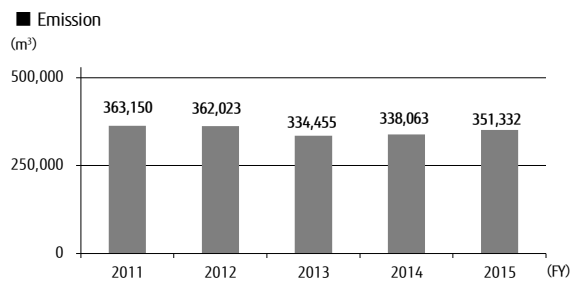
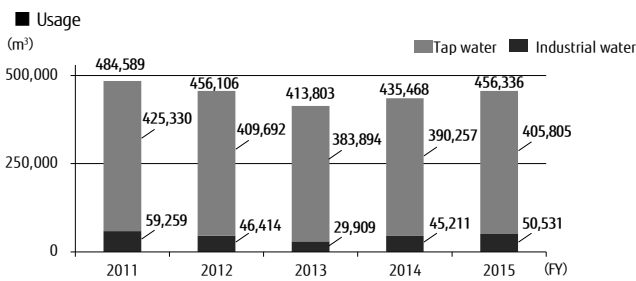
<Fuel> Based on the "Guideline for Calculating Total Greenhouse Gas Emissions" (March, 2007) issued by the Ministry of the Environment

● Freon Based on the GWP value in the 4th IPCC report

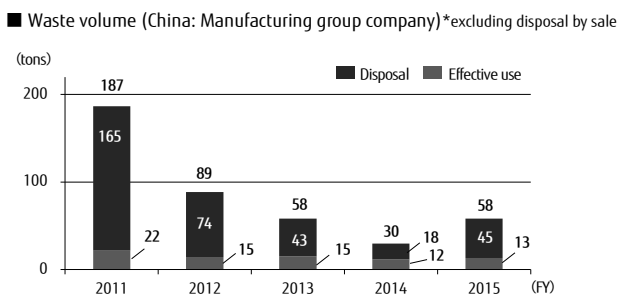
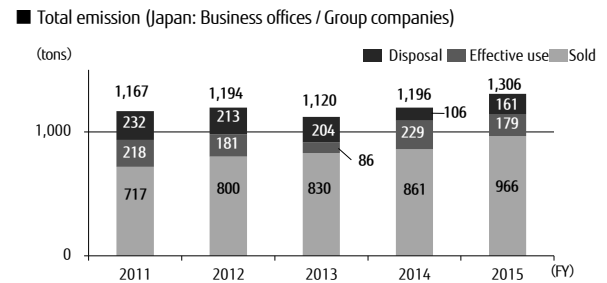
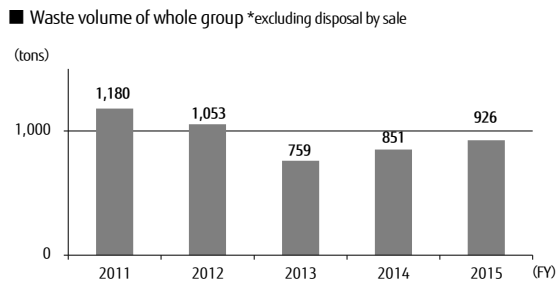
Raw material (Material / Sub-material)



Water



Wastes



Chemical substance handling amount (PRTR Law subject substance)

FY2015

Chemical substance	CAS number	Handling amount (kg)
Styrene	100-42-5	1,469
toluene	108-88-3	271
lead	7439-92-1	131
Tritolyl phosphate	1330-78-5	228

The chemical substance handling amount is calculated by adding up the handling amount in all the group companies of the chemical substance of which handling amount in FY2015 was 100kg or over at each business office and group company in Japan.

Electric home appliance recycling results

■ Recycling results

Item	FY	Air-conditioner	TV		Refrigerator Freezer	Washing machine
			CRT type	LCD / Plasma type		
【 Recycling results 】						
Accepting quantity at specified acceptance place	2014	152,809units	2,584units	199units	124,880units	7,228units
	2015	172,198units	2,457units	215units	113,423units	6,348units
Product recycling disposed quantity	2014	164,417units	2,604units	207units	134,485units	7,797units
	2015	168,669units	2,573units	221units	113,158units	6,324units
Product recycling disposed weight	2014	6,740t	66t	4t	8,444t	281t
	2015	6,932t	62t	4t	6,933t	232t
Product recycling weight	2014	6,416t	51t	3t	6,863t	264t
	2015	6,615t	48t	3t	5,706t	218t
Product recycling rate	2014	95%	77%	89%	81%	94%
	2015	95%	76%	90%	82%	94%
【 Reuse situation by parts / material 】						
Iron	2014	1,529t	7t	1t	3,267t	122t
	2015	1,611t	7t	1t	2,701t	101t
Copper	2014	419t	2t	0t	159t	6t
	2015	441t	2t	0t	155t	6t
Aluminum	2014	1,047t	0t	0t	100t	4t
	2015	915t	0t	0t	82t	3t
Composite of nonferrous, iron, etc.	2014	2,116t	0t	0t	1,103t	30t
	2015	2,281t	0t	0t	878t	24t
CRT glass	2014		23t			
	2015		22t			
Other valuable items	2014	1,173t	16t	1t	2,202t	99t
	2015	1,364t	15t	1t	1,887t	82t
Total weight	2014	6,286t	50t	3t	6,834t	263t
	2015	6,615t	48t	3t	5,706t	218t
【 Situation of collection of refrigerant Freon 】						
Accepting quantity at designated collection sites	2014	108,742kg			12,532kg	
	2015	110,393kg			9,609kg	
Weight shipped to subcontractor of destruction	2014	108,661kg			12,593kg	
	2015	110,410kg			9,554kg	
Recycling and reuse weight	2014	75,421kg			5,039kg	
	2015	78,326kg			4,400kg	
Destruction weight	2014	33,959kg			7,606kg	
	2015	31,439kg			5,193kg	
【 Situation of collection of Freon contained in heat insulation material 】						
Collection weight	2014				16,384kg	
	2015				12,379kg	
Weight shipped to subcontractor of destruction	2014				16,353kg	
	2015				12,029kg	
Destruction weight	2014				16,311kg	
	2015				12,059kg	

Introduction of Business Offices

HEAD OFFICE

Overview

Constructed In 1955 as Kawasaki Factory by Yaou Electric Co., Ltd. which is a predecessor of current Fujitsu General Limited. After starting from the production of radio, audio, TV and expanding to wireless communication equipment and homeelectric appliances, it has become the head office in 1958, and is now assuming a role of the R&D base of products and systems along with a core company of Fujitsu General Group.

■ Location : 3-3-17, Suenaga, Takatsu-ku, Kawasaki, Kanagawa 213-8502, Japan

Main environmental activities

The head office is assuming an important role to control the environmental management of the whole Fujitsu General Group and functioning as a core of the development of products and sales strategy at present. Also, the management strategy contributing to the reduction of the social environmental burden and the enhancement of environmental efficiency is developed globally from the head office.

AOMORI BUSINESS OFFICE

Overview

Started as a factory of Noheji General Co., Ltd. which was established in 1967 and turned to current Aomori Business Office in 2006. Operating consistently as a motor manufacturing factory since the establishment. After the Shichinohe-Towada Station of the Tohoku Shinkansen was opened in the adjoining land in 2010, the surrounding environment is substantially changing.

■ Location : 67-2 Aza Arakumanai, Shichinohe-machi, Kamikita-gun, Aomori 039-2501, Japan

Main environmental activities

In the surrounding area of the business office, there are rich ecosystems remaining such as ranch and farmland spreading in the neighborhood and Hotokenuma (wetland registered as Ramsar Conservation site) where many rare wild animals are inhabiting. To harmonize and protect such environments, the business office is working on the thorough control and reduction of use regarding the chemical substances such as organic solvent used in the production process of motor.

HAMAMATSU BUSINESS OFFICE

Overview

Started as an air conditioner factory (completed in 1977) of Chubu General Co., Ltd. which was established in 1973 and had been assuming an important role as the development and manufacturing base of domestic and overseas air conditioners for a long time.

Turned to current Hamamatsu Business Office in 2001, and along with the overseas transfer of the manufacturing base, Fuji Eco Cycle Ltd. (home electric appliances recycling plant) moved in the business office in 2010. Currently operating as a base for the repair of the products and recycling business.

■ Location : 1930-4 Nakagawa, Hosoe-cho, Kita-ku, Hamamatsu-shi, Shizuoka 431-1304, Japan

Main environmental activities

Operating the business in consideration for the natural environment and harmony near Hamanako Prefectural Natural Park including the habitat of rare wild animals and also conducting the creature monitoring at the biotope along with the activity of recycling without using water.

MATSUBARA BUSINESS OFFICE

Overview

Started as a factory of General Lighting Equipment Co., Ltd. which was established in 1957 and after the termination of production, operated as product service support office in Kansai district. In 2013 when the premises were renovated, integrated sales function which has been scattered.

■ Location : 2-1-45 Nishinono, Matsubara-shi, Osaka 580-0004, Japan

Main environmental activities

As a center of sales and service activity in Kansai district, aiming at the reduction of social environmental burden through products and services in the relation with customers.

Also, working on the enhancement of operation efficiency of company business cars in the metropolitan area as well as the reduction of environmental burden in the office.

Introduction of Group Companies

Manufacturing group companies

FUJITSU GENERAL ELECTRONICS LIMITED

Corporate Overview

Established in 1964 as General Denshi Kogyo manufacturing radios and audio equipment. Integrated the electronic device division of Fujitsu General in 1999 and currently manufacturing in-vehicle cameras, robot controllers and electronic devices and information & communication system equipment, etc.

- Location : 3-1 Aisari, Ichinoseki-shi, Iwate 021-0853, Japan
- Site area : 32,134m² ■ Building total area : 16,538m²
- Number of employees : 407
(as of March, 2015 / including non-regular employees)

Main environmental activities

Pursuing the reduction of environmental burden of office and factory including enhancement of production efficiency along with the development of environmentally-friendly products. Also, working positively on the recycling of wastes as well as the thorough control of chemical substances necessary for the production of electronic devices.

FUJITSU GENERAL (SHANGHAI) CO., LTD.

Corporate Overview

Fujitsu General (Shanghai) Co., Ltd. started operation in 1996. Now manufacturing mainly room air conditioners (1.5 million sets per year). Reinforced the technical center to assume the design of air conditioner products in 2013 aiming to contribute to the society by high quality and high performance air conditioners with a motto of "Quality First, Customer First" under the consistent management from design to production.

- Location : No. 1720 Hui Cheng South Rd., Jading Shanghai 201821, China
- Site area : 92,134m² ■ Building total area : 34,850m²
- Number of employees : 3,023
(as of March, 2015/including non-regular employees)

Main environmental activities

Promoting the conversion of refrigerant used for manufacturing air conditioners to the ones with less environmental burden and also strengthening the preventive measures against CFC leakage in the production process.

Working on the review of the improvement of lighting efficiency (changing to LED) of air conditioning facility in the factory.

FUJITSU GENERAL (THAILAND) CO., LTD.

Corporate Overview

Established in the Laem Chabang Industrial Estate, Sriracha, Chonburi, Thailand in 1991. Manufacturing variety of air conditioners from room air conditioners to multi air conditioners for buildings. As the factory is located adjacent to Laem Chabang harbor, efficient shipping work is possible.

- Location : Laem Chabang Industrial Estate, I-EA-T, Free Zone 1 92/9 Moo 2, Thungsuakhla, Sriracha, Chonburi, Thailand
- Site area : 100,800m² ■ Building total area : 55,800m²
- Number of employees : 2,456
(as of March, 2015/including non-regular employees)

Main environmental activities

Working on the reduction of CO₂ emission through the reduction of energy consumption by increasing efficiency of lighting in the factory (introduction of LED illumination) and preventive measures of CFC leakage. Also, promoting the social contribution by staff volunteer activities including planting activity to regenerate the mangrove trees of the shore tideland and cleaning activity of the Pattaya beach and temples.

FUJITSU GENERAL CENTRAL AIR-CONDITIONER (WUXI) CO., LTD

Corporate Overview

Fujitsu General Central Air-Conditioner (Wuxi) Co., Ltd. Was established in 2006 and is operating the business of R&D, products, sales, installation and maintenance of multi air conditioning system for buildings in the most advanced factory which was constructed in 2008. Will provide comfort with the excellent products made by the high technology and experience and protect the global environment.

- Location : No.10 Lijiang Road, New District, Wuxi Jiangsu 214028, China
- Site area : 33,367m² ■ Building total area : 28,763m²
- Number of employees : 696
(as of March, 2015/including non-regular employees)

Main environmental activities

Strengthening and implementing refrigerant CFC measures along with energy saving and resource saving. Promoting the expansion of R-32 models with less environmental burden as well as converting R-22 refrigerant models remaining in some sales area to R-410 refrigerant models. Also, working on the suppression of CO₂ by thoroughly collecting refrigerant in the production process.

FGA (THAILAND) CO., LTD.**Corporate Overview**

Established in 1998 with the purpose of manufacturing motors for air conditioner in the neighborhood of Fujitsu General (Thailand) Co., Ltd.

- Location : Laem Chabang Industrial Estate, I-EA-T, Free Zone 2 212 Moo 3, Thungsukhla, Sriracha, Chonburi, Thailand

**FUJITSU GENERAL ENGINEERING (THAILAND) CO., LTD.****Corporate Overview**

Established in 1999 as a company to be engaged in research and development of air conditioners. The development capability is enhanced with the new building built in 2016.

- Location : Laem Chabang Industrial Estate, I-EA-T, Free Zone 1 92/9 Moo 2, Thungsukhla, Sriracha, Chonburi, Thailand

**F.G.L.S. ELECTRIC CO., LTD.****Corporate Overview**

Established in 2003 in partnership with Little Swan Group in China.

The production items are brushless DC motors, AC inverter motors and related electronic parts having production capacity of 5 million sets per year.

- Location : No.8, Jiangzhou Road, Economic Develop Zone, Jingjiang, Jiangsu 214500, China

**Main non-manufacturing group companies****FUJITSU GENERAL INFORMATION SYSTEM LTD.****Corporate Overview**

Providing solution service making use of resources of Fujitsu Group. Especially, making proposal aiming at the "establishment of energy saving and comfortable environment" for JA fruits sorting depots, offices, stores, factories, etc.

- Software development, sales and service contract of office and OA apparatus, telecommunications service contract handling agency for telephone, digital communication, etc.
- Location : 2-3-31, Shibaura, Minato-ku, Tokyo 108-0023, Japan

FUJITSU GENERAL EMC LABORATORY LIMITED**Corporate Overview**

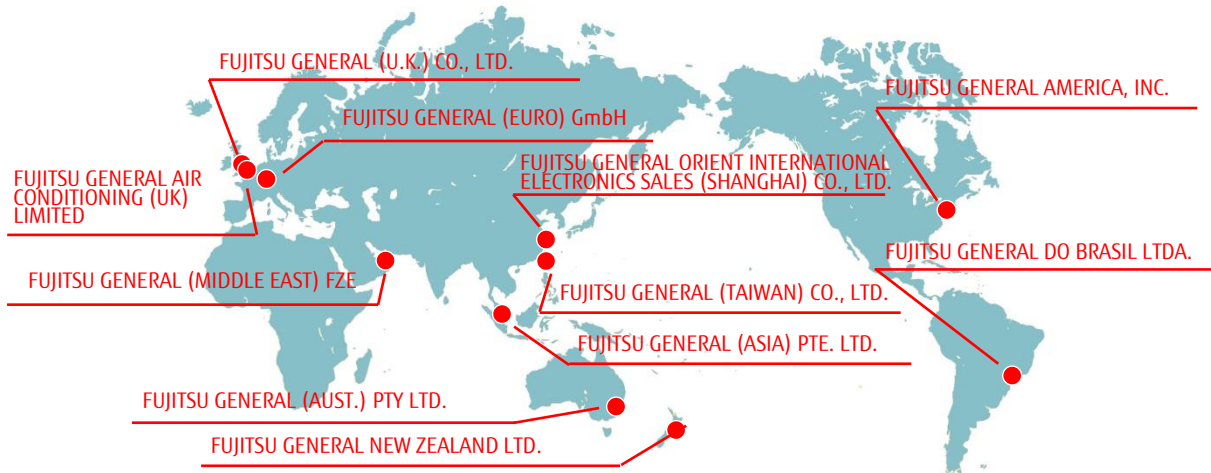
Corresponding with latest facility and ample experience to customers' requests regarding conforming tests and applications for various regulations and support and consulting on various noises.

- Location : 3-3-17, Suenaga, Takatsu-ku, Kawasaki, Kanagawa 213-8502, Japan

**FUJI ECO CYCLE CO., LTD.****Corporate Overview**

Established in 2000 in joint venture with Envipro Holdings, Inc. (recycling company) consisting of 5 home electric makers. Disposing used home electric appliances on the consignment basis from various home electric makers.

- Location : 1930-4 Nakagawa, Hosoe-cho, Kita-ku, Hamamatsu-shi, Shizuoka 431-1304, Japan

**Sales group companies (Overseas)**

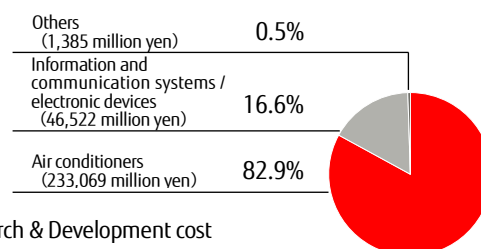
Overview of Fujitsu General Group (As of March 31, 2016)

Name	FUJITSU GENERAL LIMITED
Head office location	3-3-17, Suenaga, Takatsu, Kawasaki, Kanagawa 213-8502, Japan
Company representative	Etsuro Saito, President and Representative Director (As of June 24, 2016)
Established	January 15, 1936
Main business	Development, production, sales and service of products and parts for both of air conditioners and information and communication system/electronic devices fields.
Capital	18,089,100,000 yen
Employees	7,406 (Consolidated) 1,522 (Unconsolidated)
Directors	11 (including 3 External Directors) As of June 24, 2016
Consolidated	29 companies
Equity-method affiliates	3 companies
Net sales	280,977 million yen (Consolidated) 232,718 million yen (Unconsolidated)
Listed stock exchange	Tokyo Stock Exchange (1st division)

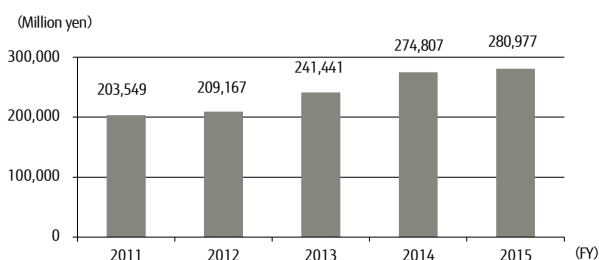
■ Main products, systems, services

- Air conditioners
Room air conditioners, multi air conditioning system for buildings, heat-pump type hot water heating system, air conditioning-related products
- Information and communication systems / electronic
Fire-fighting system, disaster prevention system, POS system, video system, in-vehicle camera, electronic parts, unit products
- Others
Recycling of electric home appliances, radio interference measurements and consulting

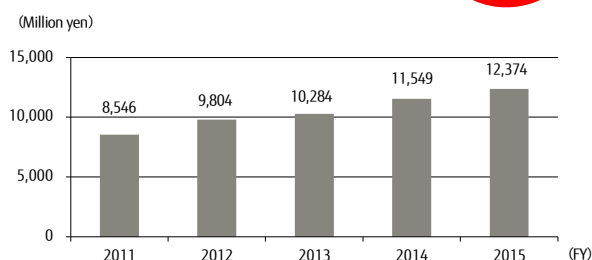
■ Sales by business segment in FY2015



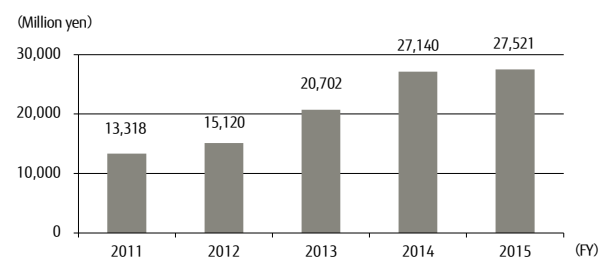
■ Net sales



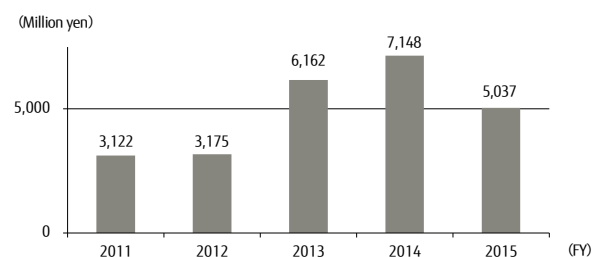
■ Research & Development cost



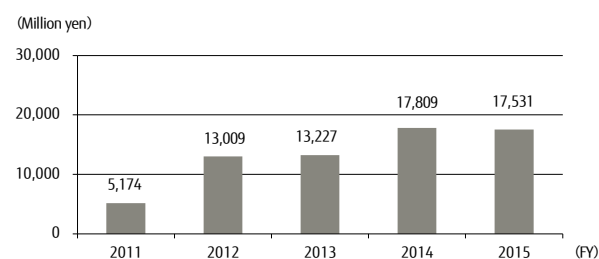
■ Operating income



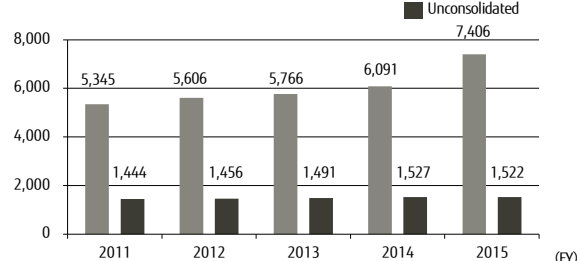
■ Capital investment



■ Net income



■ Number of employees



Editing Policy

“FUJITSU GENERAL GROUP ENVIRONMENTAL REPORT 2016” reports the actual results in 2015 and its contents regarding the environmental activities as one of the most important themes of Fujitsu General Group.

■ Major changes in business operations (FY2015)

The company names were changed from FG Eurofred Limited to Fujitsu General Air Conditioning (UK) Ltd. on March 2, 2016 and from Fujitsu General Career Promoting Co., Ltd to Fujitsu General Field Sales Ltd. on October 1, 2015, respectively.

■ Assumed readers of this report

The stakeholders including customers, employees, shareholders, investors, vendors, business partners, international societies, local communities, public organizations, government offices are assumed as reader.

■ Report covered

Report centered on the activities of FY2015 (April 1, 2015 - March 31, 2016) including a part of contents in other period.

■ Organizations covered

Reports covering activities of Fujitsu General Limited and its consolidated subsidiaries. However, depending on the contents of the report, the coverage of report varies.

		Environmental activity report	Environmental accounting	Guidelines of environmental activity planning	Energy	Greenhouse Gas	Air Pollutant	Water resource / drainage	Raw materials and procurement	Waste	Chemical substance	Financial report
Fujitsu General Limited		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Group companies	Japan											
		Manufacturing	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
		Non-manufacturing	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
		Manufacturing										
			F.G.L.S. Electric Co., Ltd.	✓	✓	✓	✓					✓
Overseas		Other than above	✓	✓	✓	✓	✓	✓	✓	✓	✓	
		Non-manufacturing	✓	✓								✓

■ References Guidelines

“Environmental Reporting Guidelines 2012” by The Ministry of Environment (Japan)

“Environmental Accounting Guidelines 2005” by The Ministry of Environment (Japan)

Reference table of " Environmental Reporting Guidelines 2012" by Ministry of the Environment, Government of Japan

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The proper nouns such as product names described in this report are trademark or registered trademark of each company.