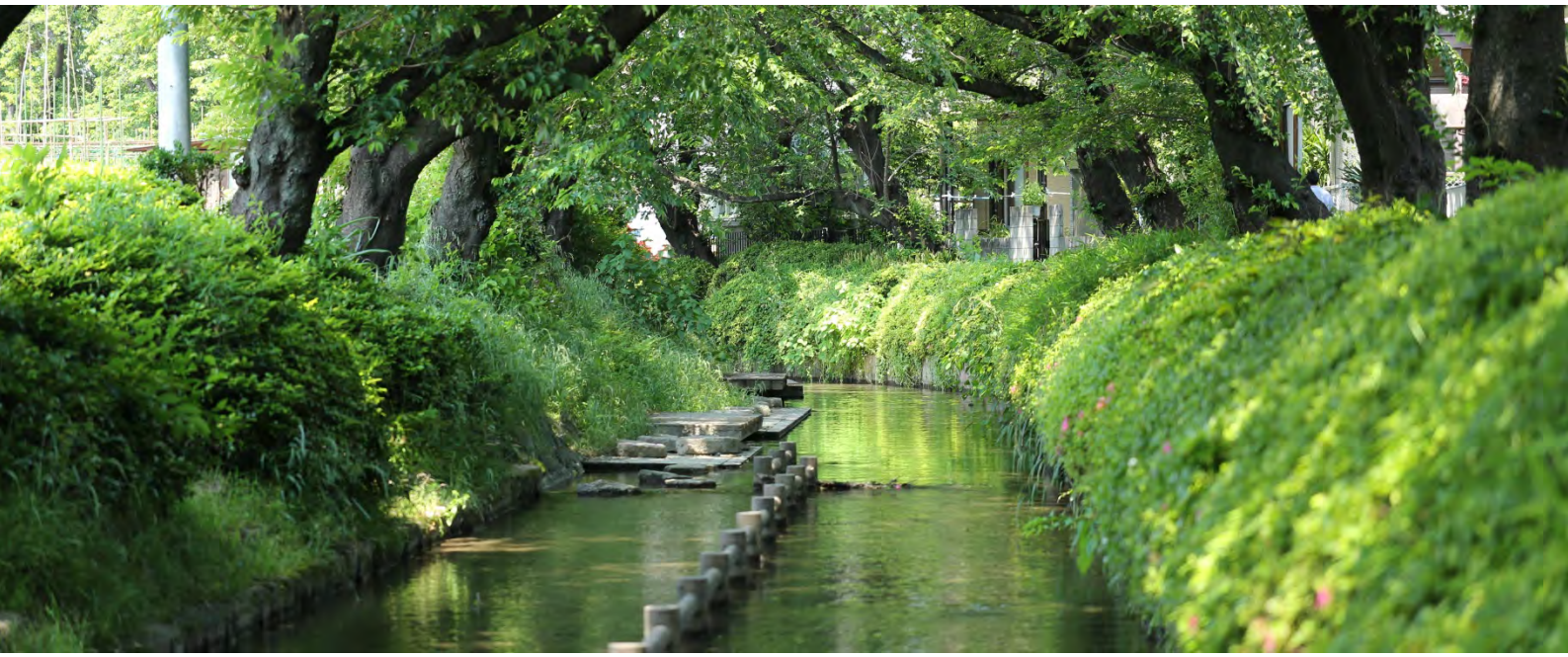
English edition

FUJITSU

FUJITSU GENERAL GROUP ENVIRONMENTAL REPORT 2015
富士通ゼネラルグループ 環境報告書



FUJITSU GENERAL LIMITED

株式会社 富士通ゼネラル

Editing Policy

"FUJITSU GENERAL GROUP ENVIRONMENTAL REPORT 2015" reports the actual results in 2014 and its contents regarding the environmental activities as one of the most important themes of Fujitsu General Group.

Changes in main business activities (FY2014)

There is no change in the constitution company of Fujitsu General Group.
Change in business centers:

- Sold the factory and company premises of the former Shinjo Fujitsu General Limited (dissolved in 2009) owned (partly used for business) by Fujitsu General Ltd. in Shinjo City, Yamagata Prefecture.

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 FY2014 (April 1, 2014 - March 31, 2015) 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	Atmospheric exhaust	Water resource / drainage	Raw materials and procurement	Wastes	Chemical substance	Financial report
Fujitsu General Limited				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Group companies	Japan	Manufacturing		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
		Non-manufacturing		✓	✓	✓	✓	✓	✓	✓		✓		✓
	Overseas	Manufacturing	F.G.L.S. Electric Co., Ltd.	✓			✓	✓						✓
			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)

Published by

Fujitsu General Limited

Editor in charge: Toshiya Ihara, Manager. Environmental Administration Division
Contact:
Environmental Planning Department, Environmental Administration Division
3-3-17, Suenaga, Takatsu, Kawasaki, 213-8502, Japan
TEL : 044-861-7768 FAX : 044-861-7772

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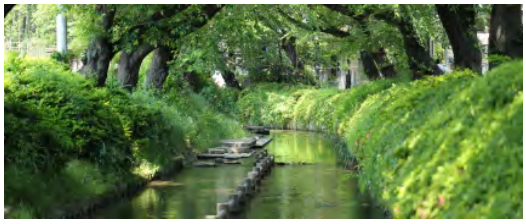
〔 Photo of front cover 〕

Nikaryou irrigation channel
(Kawasaki City, Kanagawa Prefecture)



The Nikaryou irrigation channel is the agricultural water flowing along the Tama River through Kawasaki City with total length of 32km including tributary river. It was built around 1600 and has been useful as precious aquatic water resource to support the agriculture of the region through the Edo Period (1603 - 1868).

Along with the urbanization in recent years, the use for other than agriculture has been increasing and at the same time, the life miscellaneous waste water started to flow in, which caused water contamination.

However, owing to the improvement of sewage system and the efforts of the citizens hoping for the reproduction of water environment, the clear flow has returned now.

Also, according to "Biodiversity Kawasaki Strategy - Human and creature relation plan", the role as green corridor which is movement space of creature for maintaining biodiversity is expected.
(Diverted water from the dam constructed in the Tama River about 8km northwest from the head office)

TOP MESSAGE

Toward the comfortable and safe society

In the COP21 (The 21st session of the Conference of the Parties of United Nations Framework Convention on Climate Change) held in Paris in December, 2015 aiming at the prevention of the global warming, the "Paris Agreement" was adopted, in which 196 countries including the countries exhausting large volume of CO_2 such as the U.S., China and India which did not participate in the Kyoto Protocol set a voluntary target and tackle its achievement. In the future, it is assumed that the regulations for energy saving and refrigerants will be accelerated and diversified in the world and the pursuit of higher level of energy saving for main unit of air conditioner will be required. The technological innovation toward the low-carbon society will be demanded in the improvement of every energy consumption action to support the society and life of people as well as the utilization expansion of the renewable energy.

Air conditioning equipment, main products of Fujitsu General, account for a large portion of energy consumption in the office and home. Therefore, in addition to the further enhancement of energy efficiency, we are continuing to advance the technology such as airflow control and automatic operation to balance the use efficiency and comfortableness highly. On the other hand, the social environment surrounding air conditioner business is also changing such as the activity to share cooling and heating in the society implemented by the cooperation of public and private sectors, and so, it is vitally important to provide the products and services made by grasping properly the change of the needs in the society.

In recent years, large-scale natural disasters which are said to be due to the influence of global warming are occurring frequently causing serious damages. From the experience of such disasters, the establishment of information and communication system to be able to convey the information from administration to each individual resident such as advising proper evacuation of residents before the danger of human life presses will become a new challenge for the fire-fighting and disaster prevention administration.

Challenge toward the future

In this way, to promote the business activities while being concerned with global environmental issue, Fujitsu General Group has been establishing the "Environmental Action Plan" since 1993 and practicing the environmental activities. In the current "Environmental Action Plan Stage VII (FY2013 - 2015)", we are setting five key challenges of "Development of environmental protection products and technologies and expansion of supply to the market", "Reduction of CO_2 emission", "Suppression of emission of wastes and specific chemical substances", "Level-up and operation efficiency improvement of Environmental Management System" and "Concrete activities for biodiversity conservation". Up to now, the activities have been progressing nearly as planned and we will further push forward the activities toward the achievement of the final goal.

Fujitsu General Group will continue the challenge toward the realization of sustainable society with all-out efforts.

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.

Management vision

- 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

What we strive for

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.

What we value

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

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.

Code of Conduct

- 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 Environmental Action Plan Stage VII (FY2013 - 2015)

At Fujitsu General Group, the Environmental Action Plan is established as a concrete plan to realize "Fujitsu General Group Environmental Policy". In the Environmental Action Plan Stage VII (FY2013 - 2015), it is required to accelerate the measures for energy saving of air conditioners and reduction of environmental burden against increasingly serious climate change.

Contribution to the society

The change to 100% Green Product of newly developed products is completed. 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 78.6% of the FY2014 plan. Also, as to the Super Green Product which must pass the severer standard, the certification target of more than 30% of development models is continuously achieved.

With regard to new technology, the downsizing of commercial use digital wireless equipment (for fire-fighting / disaster prevention) has been realized by high density mounting besides establishing conversion technology to R-32 refrigerant in air conditioner.

Change of our own business activities

Green house gas / wastes

Regarding the reduction of greenhouse gas (energy CO_2) and wastes, the reduction target is achieved at Fujitsu General Group as a whole and each category of country and business.

On the other hand, as for the reduction of CO_2 emission in domestic distribution, the total emission volume was reduced, but in the basic unit control by sales quantity, it was 1.6% minus against the target of FY2014 (98% compared to FY2012)

Specified chemical substances (Note 1)

The examination of substitution regarding the organic solvent used in the production process is under way, but the selection of most suitable substance is taking time and the work is being delayed. The examination of substitute material is continuing.

Green procurement

The support for the EMS (Note 2) and CMS (Note 3) of vendors is behind the schedule. This is due to the improvement needed in the management system of vendors in the overseas manufacturing group company. Currently, the review of the system is going on.

Contribution to the society

Target item (Target by the end of FY2015)		FY2013 results	FY2014 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 4).	100%	100%	☺	P.22
	Increase the sales of "Green Products" to more than 400% compared to FY2012 by the end of FY2015.	192.7%	235.8%	😐	P.22
	Make more than 30% "Super Green Products" (Note 4) in the ratio of the number of models to be developed.	80.8%	30.4%	☺	P.22
	Develop Industry's top level technology in environmental performance (Note 5).	Development completed in air conditioner	・Conversion technology of R-32 refrigerant ・Resource saving of fire-fighting communication system	☺	P.22

Changes in Our Own Business Activities

Target item (Target by the end of FY2015)			FY2013 results	FY2014 results	Progres	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	84.8%	73.6%	☺	P.16 P.27 P.28
		[Domestic] Reducing in sales basic unit of each area to less than 95% of FY2012 by the end of FY2015	91.0%	92.1%	☺	P.16 P.27 P.28
		[Overseas] Reducing in energy basic unit of each area to less than 92% of FY2012 by the end of FY2015	94.6%	92.6%	☺	P.16 P.27 P.28
	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	108.1%	99.6%	☹	P.17 P.28
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	61.8%	58.2%	☺	P.18 P.29
		[Domestic] Reducing in sales basic unit of each area to less than 76% of FY2012 by the end of FY2015	75.5%	74.7%	☺	P.18 P.29
		[Overseas] Reducing in production basic unit of each area to less than 90% of FY2012 by the end of FY2015	70.5%	79.6%	☺	P.18 P.29
	Reduction of specific chemical substances	Reducing emission of specific chemical substances used in production	Specified target substances	20.2% compared to FY2012	☹	P.18 P.30
Operation efficiency improvement and level-up of Environmental Management System (EMS) 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	・Decided evaluation target scope ・Established data ・Implemented test calculation of CO_2 conversion	・Established conversion formula ・Established operation rule	☺	P.15
	Establishment and level-up of EMS at all overseas parts / material suppliers…Increasing EMS established suppliers to more than 80%		84%	72%	☹	P.22
	Strengthening chemical substance management system (CMS) at suppliers…… Increasing chemical substance management system established suppliers to more than 80%		81%	74.9%	☹	P.25
Concrete activities for biodiversity conservation.	Tackling biodiversity conservation activity through biotope		Implemented monitoring and conservation measures	Implemented continuous monitoring and conservation measures	☺	P.19
	Promoting biodiversity conservation activity to business offices and suppliers		Established contents of measures	Implemented continuous contents of measures	☺	P.19

Progress : Progress against Planning by the end of FY2014

☺ … Progressing as per planning ☹ … Being delayed against planning

(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) EMS : Abbreviation of Environmental Management System.
(Note 3) CMS : Abbreviation of Chemical Management System of Chemical Management System.
(Note 4) Green Products / Super Green Products : Products certified independently by Fujitsu General as environmentally-friendly products.
(Note 5) Reviewing the segment of target item according to the change of business environment.

Activities in Products and Services

Air Conditioners / Household Appliances

Making best products enhancing environmental performance

Hideji Kawashima
Director & Corporate Executive Vice President
General Manager, Office of Air Conditioner Development

In recent years, under the conditions that the strengthening of environmental regulations and heightening of power saving consciousness are progressing and spreading not only in the developed countries but also all countries and areas in the world, the improvement of performance and functions is being requested for both home use and commercial use air conditioners.

Also, due to the heat wave and severe winter caused by recent unusual weather, air conditioners are demanded in the aspect of health and sanitation for the prevention of heat stroke and heat shock syndrome along with the "comfort of indoor space".

We, at Air Conditioner Division, aim to reduce the global environmental load to the minimum while enriching the living of people by providing environmentally-friendly air conditioning products through the development of excellent technology such as pursuit of energy saving performance and adoption of new refrigerant with low global warning potential and the improvement of the comfort of the indoor space.

On the other hand, along with the economic development of developing countries, the spread of air pollution is concerned about, and we are focusing on the development of technology to protect the health of customers from contaminants such as PM2.5 compliant air purifiers and room air conditioners adopting PM2.5 compliant air purifying function.

Fujitsu General will tackle limitlessly the development of the "best products enhancing the environmental performance" in the air conditioners and household appliances by the pursuit of technology taking the future into consideration.

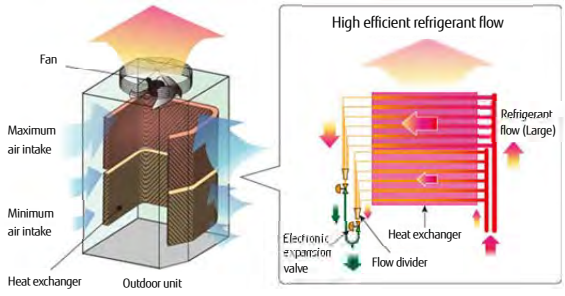
Modular type multi air conditioning system for buildings "AIRSTAGE®" V-III series

Outdoor unit 8/10HP (left) 12/14/16/18HP (right)

High energy saving performance and high efficiency operation were realized by our own technology. Especially, in the energy efficiency, our 8HP model achieved the industry's top class COP4.84 (heating mode) in Europe.

Realizing high efficiency operation by "Round- corner type high density multi-path heat exchanger" and "Upper and lower individual refrigerant control"

In addition to the efficient "Round-corner type high density multi-path heat exchanger" (thin copper pile of ϕ7mm, round-corner shape), our original operation control function is adopted to divide the heat exchanger to upper and lower parts and properly control the refrigerant volume flown into each part according to the air volume to be taken into the heat exchanger, by which the maximum performance of the heat exchanger is secured and the high efficient operation is realized.



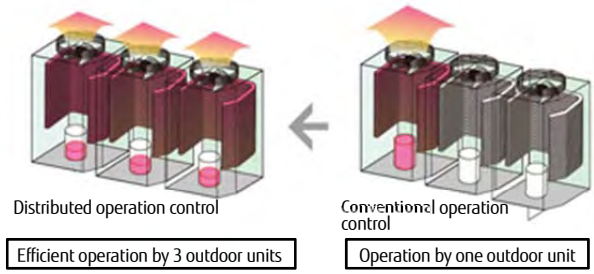
Large capacity (16HP) twin rotary compressor

The operation is integrated into one compressor by adopting DC inverter control of sine wave driving system with less rotation loss and the newly developed 16HP twin rotary compressor. The capacity loss is reduced compared with the conventional way of combining two compressors.

Distributed operation control

The heat exchange efficiency is substantially enhanced by "Distributed operation control" function making full use of the heat exchanger of each outdoor unit according to the required capacity from indoor unit.

The compressor can maintain the most efficient and stable operation without operating by the maximum load. Also, the reliability of the equipment is enhanced as the operation is not concentrated on one outdoor unit.



Controller realizing detailed controls

Such functions are added as function to prevent excessive cooling or heating by suppressing the range of indoor temperature to be set beforehand. Also, by the "timer to prevent failure to turn off" to eliminate the useless operation, the time to operate can be set freely. As one example, such detailed control is possible as "operation continues during regular work hours and operation turns off automatically after certain time from the start of operation during over time work hours", which contributes the efficient operation.

Acquired Energy Label Class 1 in China

The labelling system for air conditioner in China is ranking from the highest Class 1 to Class 5. Our V-III series acquired the Energy Label Class 1.

Room air conditioner "nocria®" ～ X series ～(2015 model)

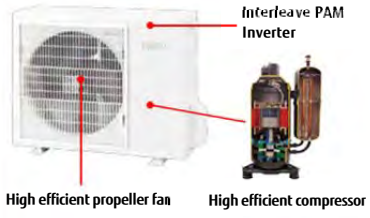
By "DUAL BLASTER®" side fans equipped on both sides of indoor unit, "nocria" X series can provide 2 kinds of airflows ("cooling and heating airflow" and "room temperature airflow") of different "temperature and speed" to every corner of the room. It creates airflow like wrapping human body in cooling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

In FY2014, substantial improvement was made aiming to enhance further comfortableness and energy saving.

Enhancement of energy saving performance

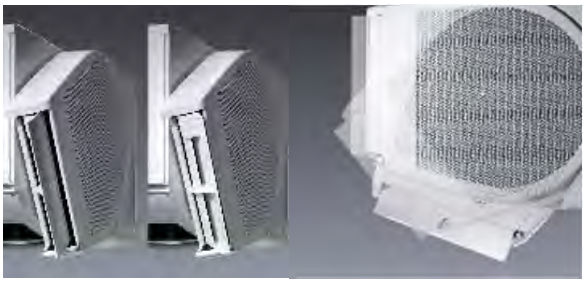
By adopting the indoor unit with new structure and high efficient compressor, the period power consumption 2,276kWh was achieved together with high output power heating (rated heating capacity 9.2kW) in 7.1kW class.

By this, the conformity to the basic policy concerning the promotion of procurement of environmental products based on "Green Purchasing Law [Note 1] has become 100%.



Better airflow by improving fan

By improving the flap of the side fans "DUAL BLASTER", the angle of airflow to both sides was widened and the movable range of the unit was expanded by 10" horizontally compared to the conventional model so that the comfortableness was enhanced with various hybrid airflow.



Adopting "Automatic filter cleaning unit"

The air conditioner with automatic filter cleaning function was developed by Fujitsu General in 2003 for the first time in the world.

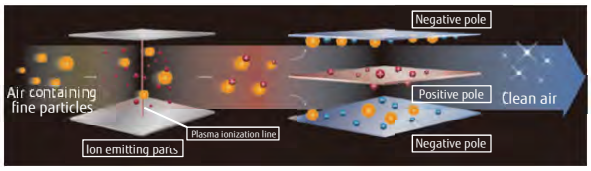
"nocria" X series is equipped with the new improved "Automatic filter cleaning unit" inheriting the tradition. By this, the labor for cleaning can be saved and the deterioration of operation

Adopting air purifying unit "PLASMACLEAN"

Plasma air purifying unit of electric dust collection method "PLASMACLEAN" was newly developed.

The "PLASMACLEAN" keeps the indoor air clean by electrifying micro particle material (PM2.5) [Note 2] together with pollen and dust by plasma ion and absorbing by minus electrode. As the function of "air conditioner + air purifier" is performed by one unit, high energy efficiency is kept for maintaining comfortable room.

Also, as the nonwoven filter is not used and the replacement of filter is unnecessary [Note 3], "PLASMACLEAN" can prevent the deterioration of dust collection power and contribute to the saving of resources.



Adoption of outdoor unit of salt damage resistance specification

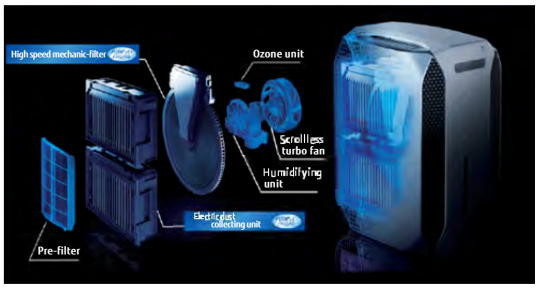
To prevent the useless replacement due to failure of the machine and save the resources by prolonged life, the durability is enhanced by making screws, nuts and exterior panel of outdoor unit with salt damage specification [Note 4] based on the "Salt damage resistance" of the Standard Specification 9002 stipulated by The Japan Refrigeration and Air Conditioning Industry Association.

[Note 1] Green Purchasing Law: The law concerning the promotion of purchasing of environmentally-friendly articles by government
[Note 2] General term of the smallest particulate matter of less than PM2.5㎛. PM stands for Particulate Matter.
[Note 3] Filter replacement is unnecessary. Cleaning with water about once a year is necessary.
[Note 4] Salt damage resistance specifications: The level to install at the place where sea breeze does not blow directly but there is similar atmosphere.

Humidifying air purifier

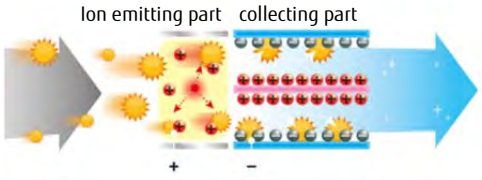
Chinese model with 3 color variation [ACSQ360D]

Fujitsu General's original "PUREVER ENGINE" equipped with dust collecting unit and automatic reproduction deodorizing unit was developed and the air purifier adopting this "PUREVER ENGINE" was released In China and Japan.



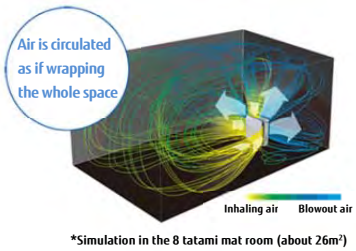
Electric dust collecting method

Particles are forcibly charged to a plus and strongly absorbed by electrode board of dust collecting part. As the gap of the electrodes is wide, the deterioration of operation efficiency can be suppressed, and also as the filter replacement is not necessary, it contributes to the resource saving.



Our original "4x3 airflow" (Four by three airflow)

The air of the living space is inhaled by front 4 direction absorbing efficiently to the foot area and circulated as if enwrapping the whole room by 3 direction emission. The dirt and smell of the air in the wide living room can be collected quietly and quickly, which contributes to the energy saving.

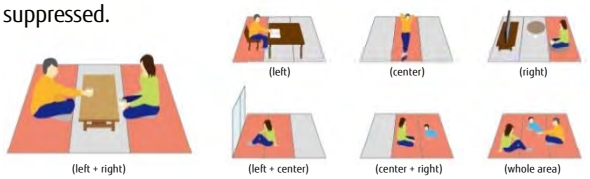


*Simulation in the 8 tatami mat room (about 26m²)

Electric carpet

Heating area switching function

It can select heating area according to various life scenes and effectively heat only the place where there is human, the useless power consumption can be suppressed.



Low power operating function

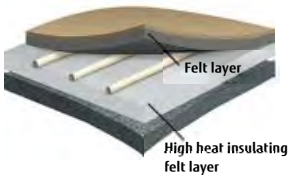
Comfortable operation can continue with less power consumption by operating with a 1/3 side switching by turns utilizing residual heat.

Automatic room temperature adjusting function by sensor

When sensor detects the room temperature rise when co-using with other heating appliance and room temperature rises to higher than 20℃, excessive heating can be prevented contributing to energy saving by "Modest mode" function which automatically adjusts the surface temperature of main body to lower side than the set temperature.

High heat insulating

High heat insulating felt layer suppresses useless emission to the floor. Also, it excels in cushioning characteristics.



"Off timer" function turning off the power automatically

The "Off timer" function which turns off the power automatically when certain time elapses after operation started is equipped, which prevents failure to turn off and saves the useless power consumption while nobody is at home.

Information & Communication Systems

Contributes to the comfortable and safe society

Nobuyuki Watanabe
Director & Corporate Senior Vice President
General Manager, System Support Division

Information & Communication System Division contributes to the society by public system in such field as fire-fighting and disaster prevention and system solution in medical organization, food service industry and agricultural field.

In recent years, in the field of fire-fighting and disaster prevention, the increase of the extreme phenomena caused by climate change and giant earthquake assumed to be caused by Nankai trough are concerned, and the prompt action for countermeasures against flood damage, sand disaster and earthquake disaster and the activity for disaster prevention are increasing importance. We are aiming to reinforce the social infrastructure to support secure and safe life of citizens by fire-fighting and disaster prevention system suggestions.

Also, in the society where low birthrate and aging are progressing, the increase of the burden at the medical site cannot be ignored.

We are promoting the medical environment creation which is kind not only to patients but also to medical staff by the proposal of "Hospision®", outpatient information solution for medical care.

Furthermore, in other solution business as well, we will make proposal to meet the needs of each customer by upgrading information transmission function such as video transmission and using latest cloud technology.

Municipal disaster prevention radio system

< Delivery example > Ishinomaki City

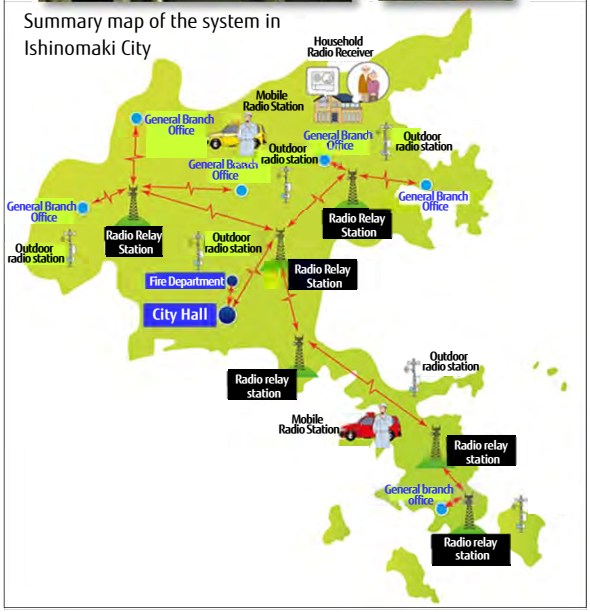
Ishinomaki City which was born in 2005 by the merger of 6 adjacent towns is promoting the disaster prevention administration radio maintenance project covering the whole city as a part of reconstruction project from the East Japan Great Earthquake Disaster for the "realization of the town which is strong against disaster and where people can live safely, and for its system construction, Fujitsu General's latest digital disaster prevention administration radio system was adopted.

In April, 2014, the network system with radio line with 6 general branches in the city was completed. Thereby, the operation by each city and town was unified and the quicker and more proper countermeasures in the disaster measures support activity than ever have become possible including evacuation instructions / advisories for whole area in the city and exchange of information between city hall and branches in an emergency. Ishinomaki City is planning to increase outdoor substations in the future to solve the problem of weak signal area.

Disaster prevention radio room in the city hall

Outdoor substation

Summary map of the system in Ishinomaki City



Outpatient guidance system " NAVIT® "

< Delivery example > Aichi Medical University Hospital

Aichi Medical University Hospital (Permitted bed capacity 900) constructed a new hospital as an event of the 40th anniversary of the foundation with a motto "PlusUltra, to the future to create" and started the medical treatment from May, 2014.

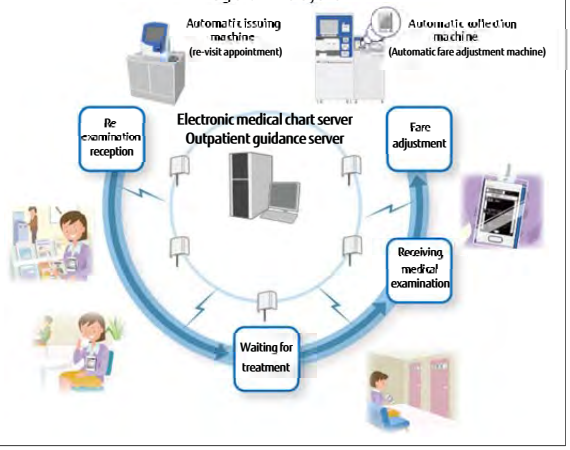
"NAVIT" is a light-weight compact mobile terminal used by the patients within the hospital and linked with the electronic clinic record system provided by Fujitsu Limited via radio communication. By this system, the information such as treatment of the day, schedule of the inspection, waiting time for treatment and accounting are displayed in real time.

By adopting this system, as the patients can check the waiting time at hand, they can mitigate the feeling of anxiety and fatigue and use their waiting time effectively.

It is also useful for the efficiency improvement of the hospital operation as the inquiry from patients about the waiting time is lessened.

NAVIT terminal

Image of the system



Electronic Devices

Respond to the expectation of customers by the highest quality

Hisashi Ebisawa
Director & Corporate Senior Vice President
General Manager, Electronic Devices & Components Division

In the recent auto industry, the enhancement of the driving support function for drivers and the technological development toward automatic driving are actively promoted and it is predicted that the technological innovation in this field will be accelerated in the future.

We developed "Rear Cross Traffic Alert (RCTA) System" for the first time in the world by working on the development of in-vehicle camera adding the function to support the driving such as detecting function besides advancement of image processing technology.

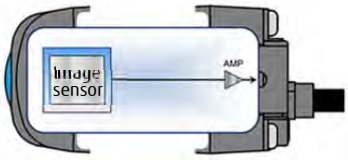
Furthermore, in the manufacturing of electronic parts and units, we are positively promoting the business in the environment and vehicle related field such as fuel cells and digital tachograph utilizing downsizing and high integration technology and core technology such as high output power and high efficiency technology.

In the future as well, we will strive to respond to the expectation of customers through the more competitive products of highest quality by refining the technology effective for the environmental loading reduction such as downsizing and high heat radiation design.

Rear Cross Traffic Alert (RCTA) System

We developed a parking support back camera system to detect the objects to become dangerous factor such as other vehicles or pedestrians approaching to the car. In this system, as the function of the object detection is incorporated in the integrated circuit for specific application and built in the camera, the recognition processing by the camera body was made possible for the first time in the world. By this system, the enhancement of vehicle installation performance and cost reduction were realized.

Integrated circuit



Conventional back camera

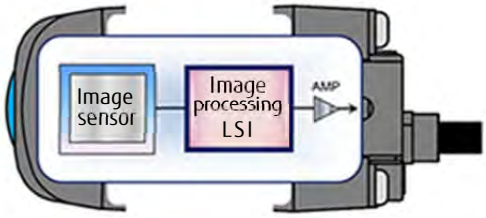
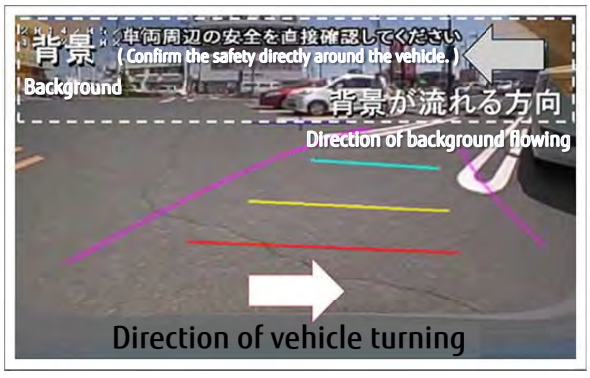


Image processing built-in back camera

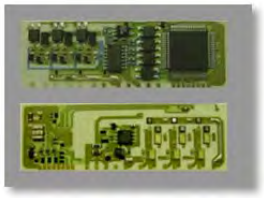
Combined use of image processing information and vehicle information

For example, when reversing while turning the steering wheel, the object which is originally stationary object such as other parked car is detected as an approaching object in the image processing. Therefore, the misdetection of the stationary object is reduced by utilizing and analyzing the vehicle information (vehicle speed, steering angle of steering wheel, etc.).



Electronic parts

We are promoting the design and production of various motor drivers and inverters realizing high output power and high efficiency mainly for industrial use and working on the downsizing and high integration of such products. Also, we are tackling the modularization of various power circuits.


Pressure film products


Power supply for industrial robot

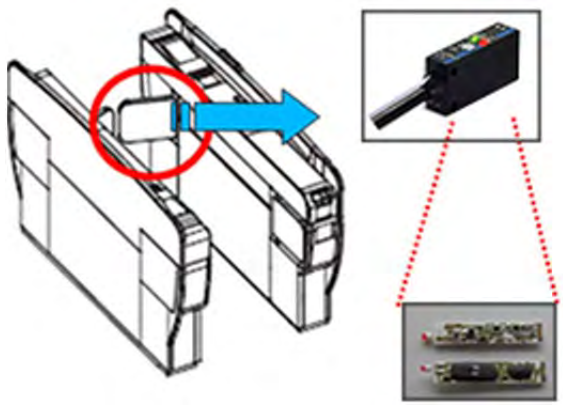

Inverter for fuel cell

Unit design / production subcontracting

We are subcontracting the design and production of printed boards incorporated to various electrical apparatus such as Industrial instrument / medical equipment / housing equipment. Also, we are conducting the design and production up to complete sets including housing design and cable wiring design.

＜Example of use＞

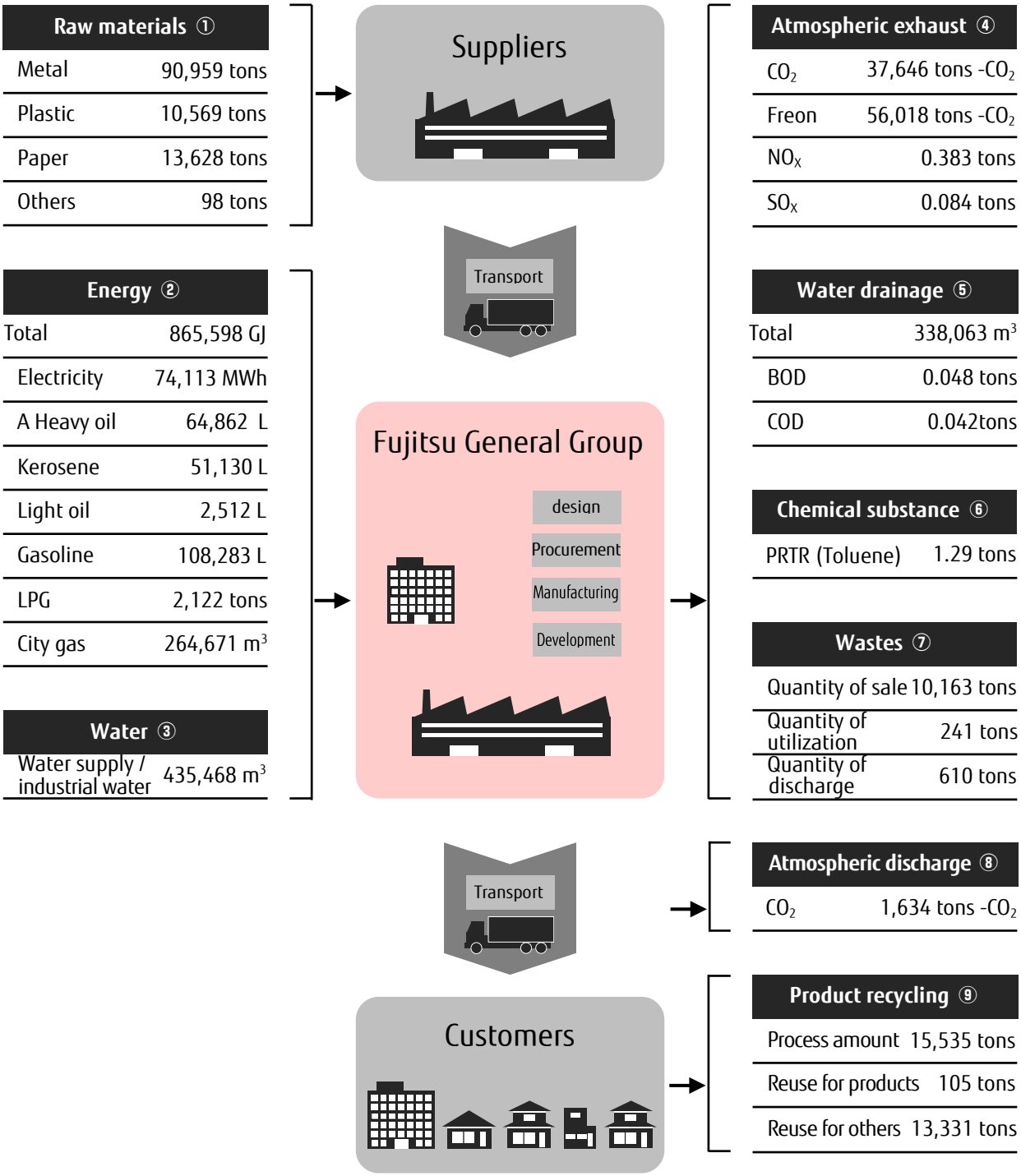
Optical sensor of automatic ticket gate



Activities in Business Operations

Material Balance

FY2014 Actual Results



【Note】 ・This table does not include the data of non-manufacturing companies of other than Japan.
・Except ② and "CO_2" of ④, the data of F.G.L.S Electric Co., Ltd is not included.
・Following parts of this table show only data in Japan.
"NOx", "SOx" out of ④, "BOD", "COD" out of ⑤, ⑥, ⑧, ⑨

Greenhouse Gas (GHG) Emission

Activities of business offices for the reduction of energy CO_2

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

Fujitsu General (Thailand) Co., Ltd. saved the power consumption by 686MWh per annum, equivalent to 70% of power for lighting, by changing the bodies of lightings from mercury lamp and fluorescent lamp to wide angle type LED and reducing both the power consumption of lighting fixture and the number of lightings.

Changed lightings of the premises of Fujitsu General (Thailand) to LED

before improvement

after improvement

Reduced the number of fluorescent lamps

Changed to LED lamps

Reduction of power consumption by introducing high efficiency transformer

Head Office reviewed the transformer facility as the increase of power consumption is predicted due to the reinforcement of development test facility and introduced high efficiency transformers, by which the power consumption was saved by about 11MWh per annum.

High efficiency transformer introduced at the head office

Reduction of fuel consumption by reviewing production process

Aomori Business Office enhanced the operation efficiency of the facility by summarizing the contents of work in process monthly and changing periodically. As a result, the consumption of LPG as heat source was saved by about 3.7 tons per annum.

Also, as a result of having intensified the work processes, the consumption of kerosene was saved by about 1.7kL per annum by improving operation efficiency of heating during working at night especially in winter.

Power saving by efficiency improvement of printed board mounting process

Fujitsu General Electronics Limited made energy saving of reflow furnace to bond the mounter to mount on the printed board with the solder on the board by heating after mounting in the production facility by SMI (Note 1) system and also conducted the shortening of the stopping time of the facility when changing the production by refurbishing the cassette to supply mounting parts, by which the power consumption was saved by about 53MWh per annum.

Production facility renewed at Fujitsu General Electronics Limited

Mounter

Reflow furnace

Change of boiler fuel and improvement of combustion efficiency

Fujitsu General (Shanghai) Co., Ltd. has been using boiler using light oil as fuel, but to renovate the boiler facility, worked on the improvement of energy efficiency by changing to boiler using LPG as fuel which is lower in environmental load, as a result of which the energy consumption was saved by about 7,500 GJ (calorie conversion) per annum.

LPG boiler adopted by Fujitsu General (Shanghai)

Old type using light oil

New type using LPG

(Note 1) SMT: Surface Mount Technology. The system to mount electronic parts on the printed board on which solder is printed beforehand and later adhered to electronic parts by dissolving the solder by reflow furnace.

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 at head office

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.

Refrigerant collection equipment of Fujitsu General (Shanghai)

Measures to prevent the leak of Freon in recycle plant

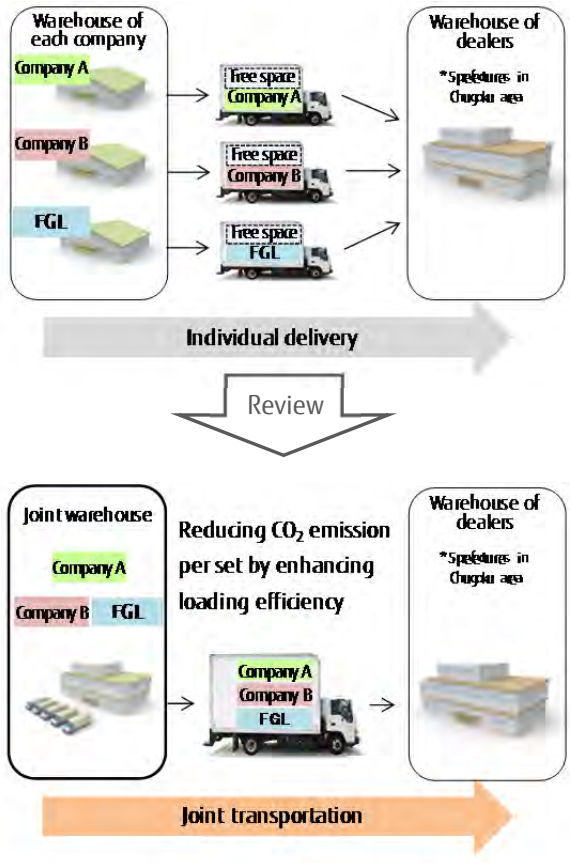
Fuji Eco Cycle Co., Ltd. engaged in the recycling of electric home appliances is establishing the system so that staff can deal with even slight change of weight in the cylinder after collection by the automatic report function by storing and controlling temporarily the cylinder collecting Freon for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

As to the joint transportation, we completed the shift in Kyushu area by FY2013 and extended the subject area to Chugoku area in FY2014. For implementing the joint transportation, the distribution warehouse was newly established as distribution base in Hiroshima Prefecture and the optimization of transportation route was realized.



Wastes / Chemical Substance

Activity to reduce wastes

Reduction by separating waste liquid into oil and water

FGA (Thailand) Co., Ltd. is working on the reduction of waste liquid of cooling water used at facility. This cooling water has been disposed conventionally as it contained oil content, but since the oil-water separation equipment was adopted in the production process in FY2014, it has become possible to separate, collect and dispose only oil content from cooling water. By this, the volume of waste (water liquid) was reduced by 1.5 tons per annum.

At present, the effective use of the collected oil is under study.

Oil-water separation equipment of FGA

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.

Shed for items such as fluorescent lamp at FUJITSU GENERAL (SHANGHAI)

Reuse of packaging materials for delivery

Fujitsu General Central Air-Conditioner (Wuxi) Co., Ltd. is implementing the reuse of packaging materials (paper) and wooden palette used for delivery of production materials in cooperation with vendors, and the volume of reuse in a year is about 5 tons.

At Aomori Business Office, the wooden palette of 4.7 tons per annum used for delivery of parts is effectively used by assigning 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 SDS (Note 1) of chemical substance used so as to enhance the awareness regarding safety and risk of chemical substance.

Bulletin of SDS at FUJITSU GENERAL (SHANGHAI) (above) and checklist (right)

(Note 1) SDS: Safety Data Sheet. Named MSDS in Japan

Flood / pollution measures / Biodiversity

Water resources

28 years has passed since the R&D Center was constructed at the head office, and the water flush facility of the washroom was renovated to a sensor perceptive type all at once as it became old. Herewith, the water consumption of the washrooms of the R&D Center was reduced by 51% saving by 100m^3 (estimated value) per annum, which is equivalent to 5 large tank trucks.

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.

Renovated water flush at head office

Poster calling for water saving at FUJITSU GENERAL (SHANGHAI)

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 FY2014 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.

In FY2014, out of 4 observation wells, the solvent was less than measurement lower limit level at 3 observation wells, but trichloroethylene and tetrachloroethylene were detected at one of the wells. After treatment, the level is below the measurement lower limit.

Groundwater purification facility (Aomori Business Office)

(mg/L)

Detected chemical substance	Measurement value	Standard value (Note1)
Trichloroethylene	**0.006**	Less than 0.03
Tetrachloroethylene	**0.021**	Less than 0.01

(Note 1) Environmental standard relating to water pollution of groundwater (Environmental Report No.10 issued in 1997) (Revised: in No.127 issued in 2014)

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. 7 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.

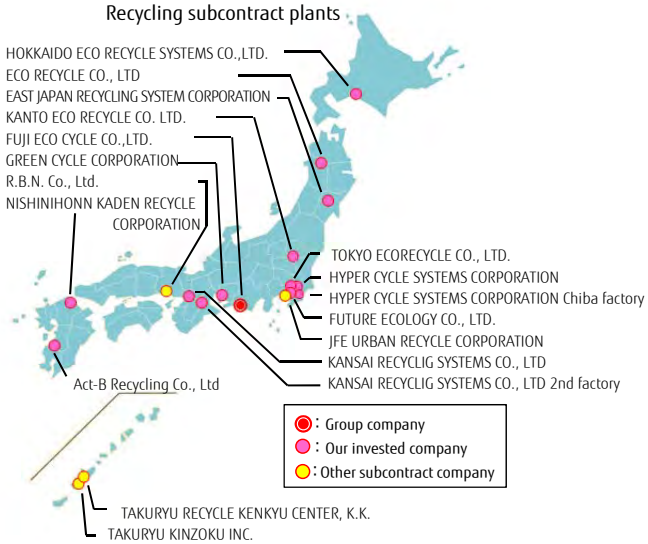
Green area of head office (Refrigerator factory site)

Recycling (Products / Packaging)

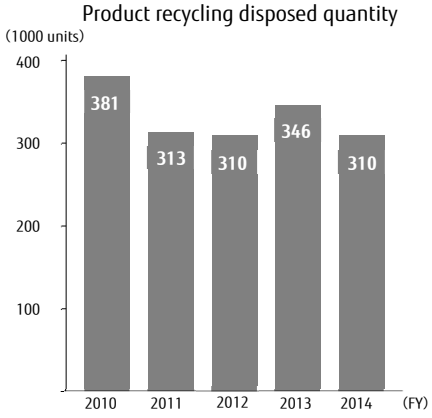
Electric Home Appliance Recycling (Japan)

Fujitsu General established about 360 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.

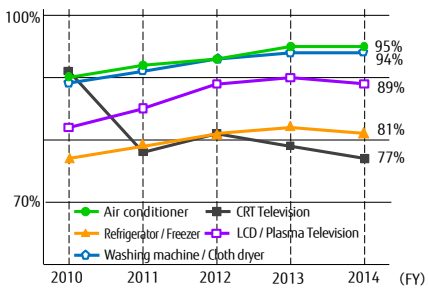
Recycling subcontract plants



Product recycling disposed quantity



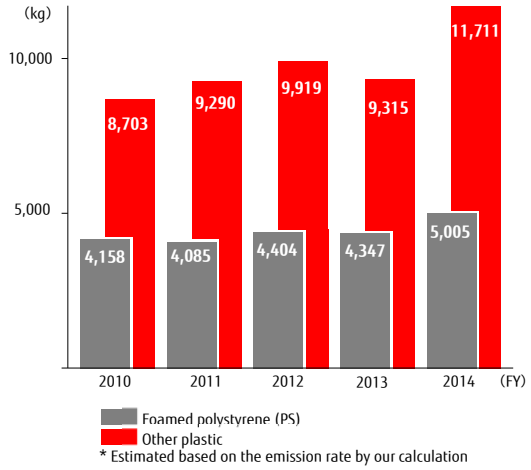
Product recycling rate



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 FY2014 is 16,716kg. Fujitsu General will continue to reduce the packaging of products in the future.

Estimated collection volume of plastic



* Estimated based on the emission rate by our calculation

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.

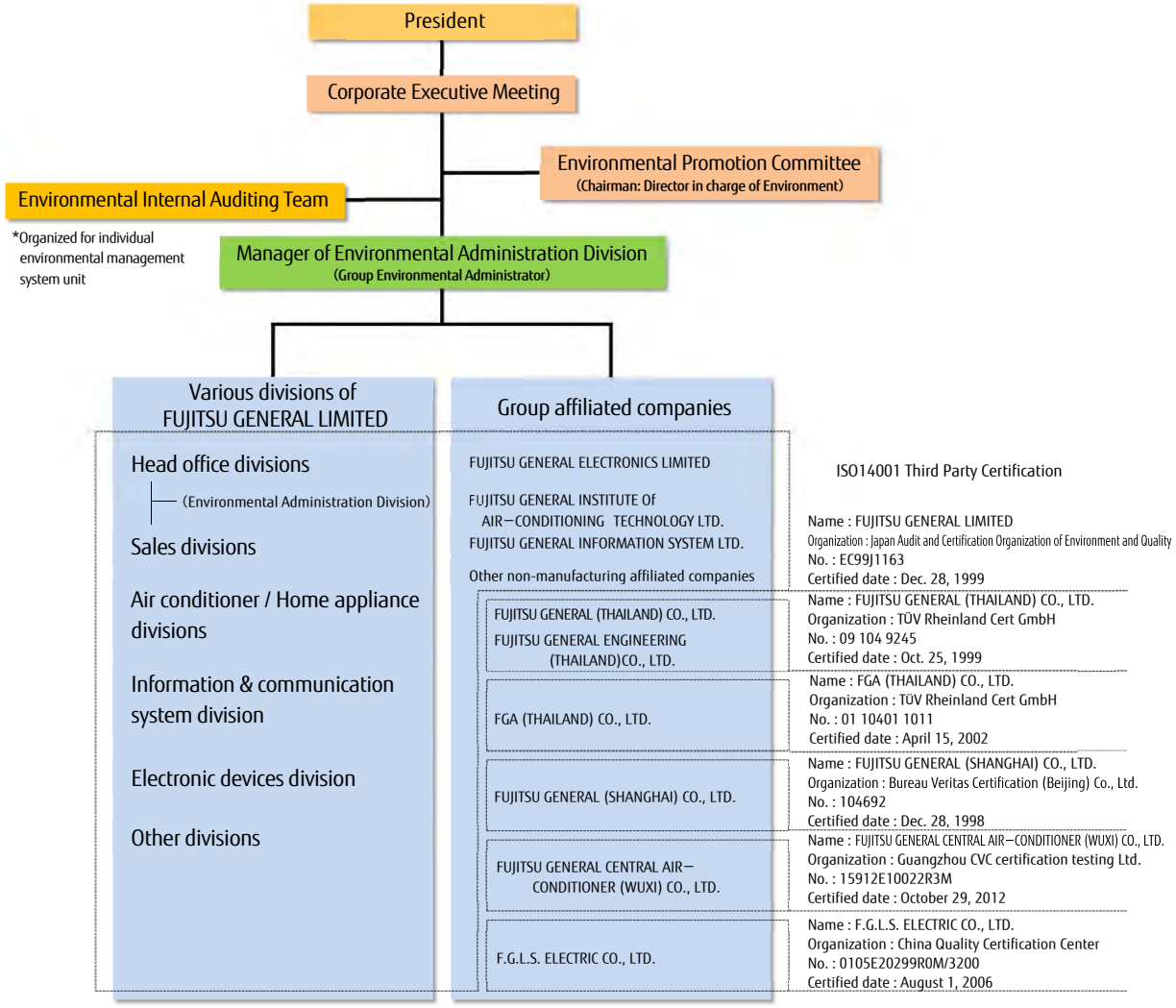
Indication of mark according to the "WEEE Directive" of EU (Products for EU area)

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.



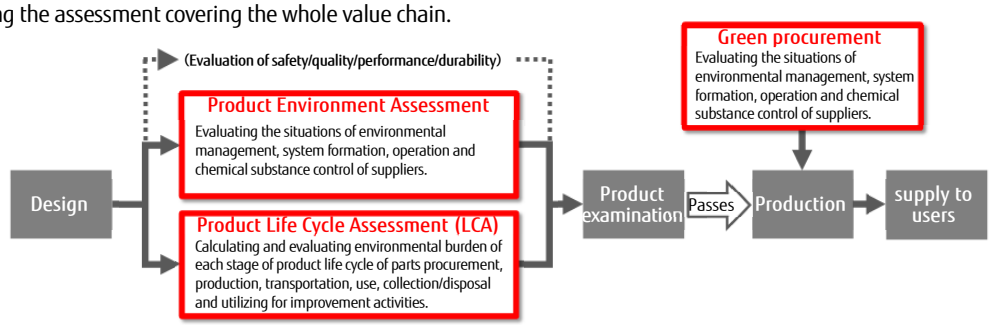
History of Environmental Activities

- 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 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

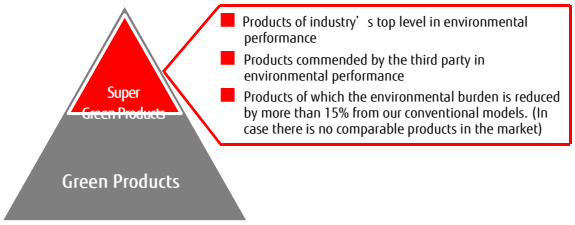
Various Assessment Systems regarding Product Environment

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 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 cooing capacity 7.1kW type)

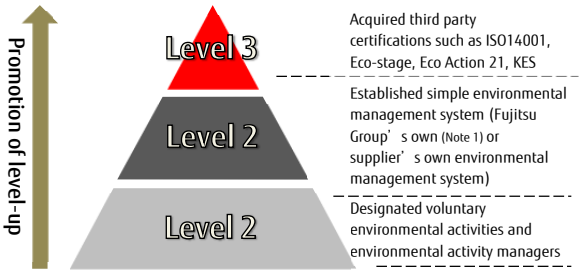
AS-Z71V2W (2009 model) AS-Z71D2W (2014 model)

Each stage	Increase / decrease of environmental burden	CO_2 emission conversion
Parts procurement	increase	38.1kg
Production process	decrease	−2.3kg
Transportation	decrease	−0.2kg
Before use Total	increase	35.6kg
During use	decrease	−2,808.0kg
Collection of wastes	increase	0.1kg
Disposal / Recycling	increase	1.1kg
After use Total	increase	1.2kg
Total lifecycle		−2,771.2kg

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 radicate 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 FY2014 internal environmental auditing

Category	Number of indications / improvements
Incompatibility concerning deviation risk of environmental laws	5
Incompatibility concerning other environmental risk	34
Recommendation of implementation of improvement	71

F.G.L.S. Electric Co., Ltd. and overseas sales group companies are not included in the number.

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.

Result of FY2014 external environmental auditing

Category	Number of indications / improvements
Incompatibility concerning deviation risk of environmental laws	5
Incompatibility concerning other environmental risk	4
Recommendation of implementation of improvement	12

F.G.L.S. Electric Co., Ltd.is not included in the number of the number.

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.

For the short term employment workers as well, the environmental education is carried out as the high environmental consciousness is required.

New employee training

Head Office

Fujitsu General Central Air-Conditioner (Wuxi)

Fujitsu General (Shanghai)

Environmental enlightenment for employees

Fujitsu General Group companies are conducting various events for the enlightenment of employees.

Fujitsu General (Thailand) Co., Ltd. is conducting various events every year setting "Environmental Week". In 2104, "Costume Contest" making use of waste materials was held and the enhancement of consciousness to protect natural environment was promoted through the environmental quiz and game.

Environmental quiz and game (Environmental Week event)

"Costume Contest" making use of waste materials

Environmental Communication

Environmental Report / Catalog

Fujitsu General has been publishing environmental report every year since 1999 (around September) 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.

Besides, for the ordinary customers, each environmental technology is explained in the product catalog.

Environmental page on the website

Environmental Report

2014 product catalog

Exhibition

In FY2014, we participated jointly in the exhibitions of Fujitsu Group and also the overseas group companies took part in the exhibitions proposing our products as well as introducing our environmental technologies.

"Eco-Products 2014" (Japan)

Air conditioner exhibition "ARBS2014" (Australia)

Air conditioner exhibition "AHE EXPO 2015" (U.S.A.)

Exhibition Communication with suppliers

Green procurement guideline / Specified chemical substances

Fujitsu General is promoting green procurement activities In tie-up with Fujitsu Group companies and introducing "Green Procurement Directions" and "Specified Chemical Substances List" to customers on the website.

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

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

Explanation of 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 customers and also asking for the cooperation regarding the establishment of chemical substance control system at suppliers.

Explanation meeting for suppliers arranged by the manufacturing group companies

Fujitsu General Central Air-Conditioner (Wuxi)

Fujitsu General (Shanghai)

Social Activities / Commendation

Participation in social activities concerning environment

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 FY2014, we made a cooperation for the cutting and trimming of bamboo grove.

Green space conservation activity of 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

Aomori Business Office is participating in the "Eco-cap campaign" supporting the vaccination for the children in the developing countries through the recycling of pet bottle caps. In FY2014, 2,244 bottle caps were collected and the profit on sale was donated to the Authorized NPO Japan Committee, "Vaccines for the World's Children" through Eco-chan Club, a local circle volunteer.

【Correction and apology】
In the "Environmental Report 2014", we reported that by the Eco cap collection activity (Enforcer: Fujitsu General Heartware Ltd.), polio vaccine for 180 children was sent to the developing countries through Authorized NPO Japan Committee "Vaccines for the World Children", but it became clear that actually the donation was made in the way different from the report of intermediary agent. We correct and apologize for stating the contents different from the fact.

We will review the way of operation so that the donation is utilized properly in the future.

Commendation

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

Commendation by air conditioning magazine in the US

The cold district specification model of the "RLFF" series small-size floor-mounted inverter air conditioner for North America won Gold Award of the "High-Efficiency Residential Equipment (residential use energy saving product) category" in the "Dealer Design Awards" sponsored by The NEWS, the U.S. air conditioning specialized magazine.

The air conditioning system with refrigerant pipe installed without using duct matches the needs of the cold district, and high energy-saving performance, good design and excellent maintainability are highly evaluated, which led to receiving the award.

Commendation for production factory

Fujitsu General (Shanghai) Co., Ltd. received Gold Medal of "Jiading District Advanced Manufacturing Awards" which is given to the companies that contributed to the district by advanced technology by the Jiading Government, Shanghai, China.

Certification for "Low CO_2 Kawasaki Brand 2014" of Kawasaki City

Our room air conditioners "nocria" X series and Z series were certified to "Low CO_2 Kawasaki Brand" which are certified by Kawasaki City on its own for the products and services designed and manufactured in Kawasaki City and contributing to the reduction of energy CO_2.

Data Overview

Environmental Accounting

(FY 2014)

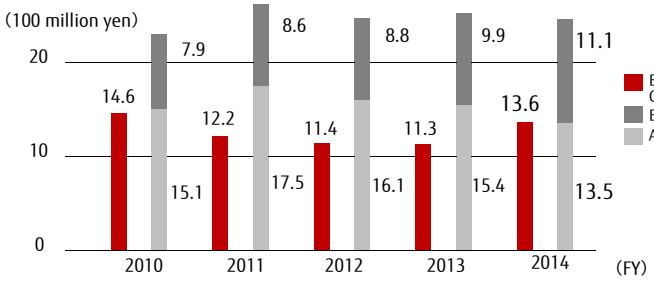
Environmental Conservation Cost (million yen)

Item		Main contents	Cost
Business Area Cost	Pollution prevention cost	Air / water pollution protection, etc.	111
	Global Environmental Conservation Cost	Global warming prevention / Energy saving, etc.	420
	Resource Circulation Cost	Resources effective use, industrial waste disposal, etc.	383
Upstream / Downstream Costs		Collection / Recycling of used products, etc.	65
Administration Cost		Environmental management system, etc.	33
R&D Cost		R&D of environmentally-friendly products, etc	323
Social Activity Cost		Donation for natural environmental protection, etc	0
Environmental Remediation Cost		Repair cost relating land and underwater pollution	21
Total			1,356

Economic Benefit Associated with Environmental Conservation Activities (million yen)

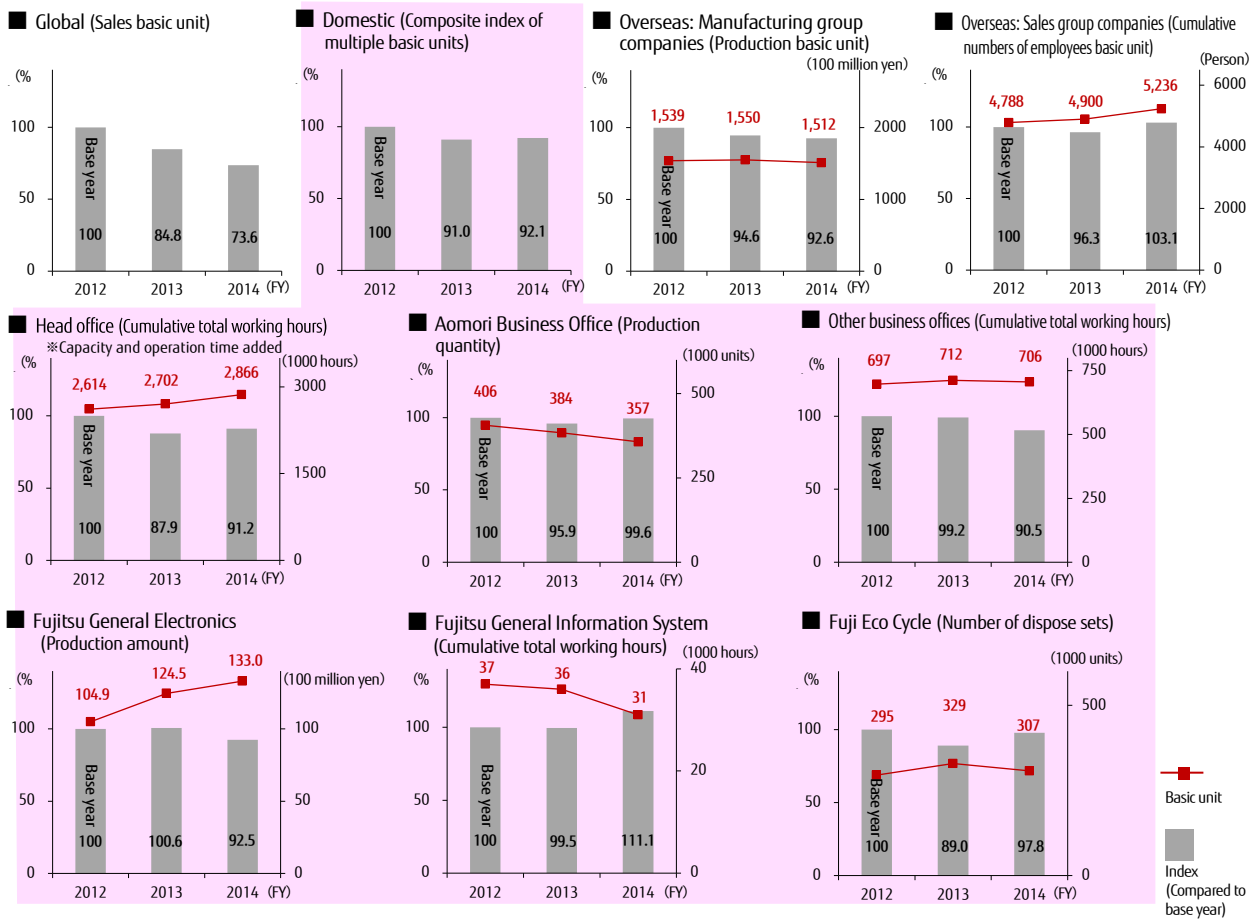
Item	Main contents	Benefit
Actual Benefit	Repair cost relating land and underwater pollution	1,348
Estimated Benefit	Control of environmental protection facility and development	1,110
Total		2,458

We are working on the conversion of the refrigerant gas to R-32 which has lower warming index. For this, as the air conditioner manufacturing group companies in China and Thailand changed the production lines to R-32 compatible ones sequentially, the environmental protection (global warming prevention) cost increased.



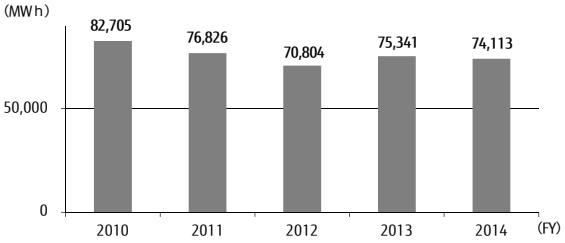
【 Correction and apology 】
In the "Environmental Report 2014", we reported that the environmental protection cost in FY2013 was 1,087 million yen, but there was a mistake in calculation and as a result of recalculation, the correct amount was 1,126 million yen. We correct the amount and apologize for stating incorrect amount. We will in the future. We will strive for prevention of recurrence in the future.

Environmental Protection Program: Greenhouse gas basic unit control

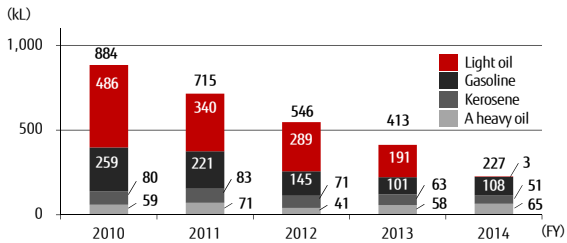


Energy

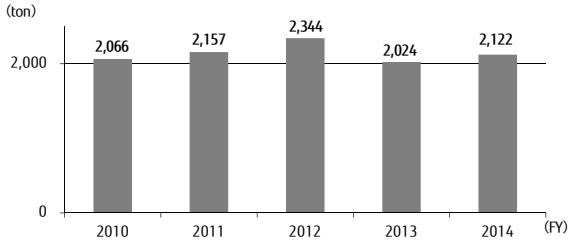
Electricity



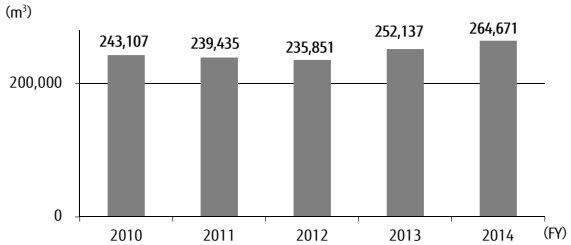
Oils



LPG

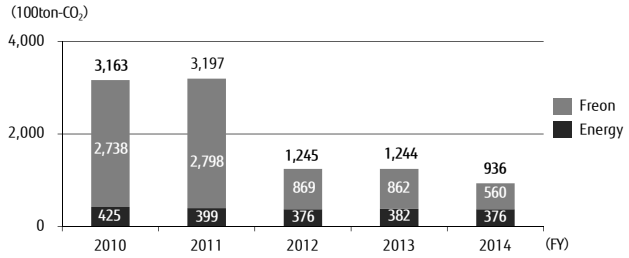


City gas

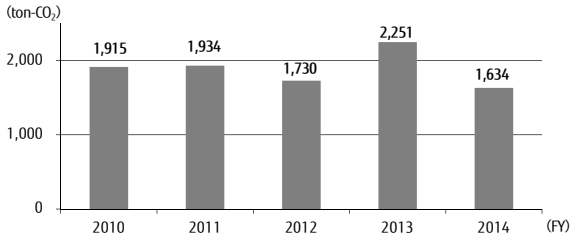


Emission to the air

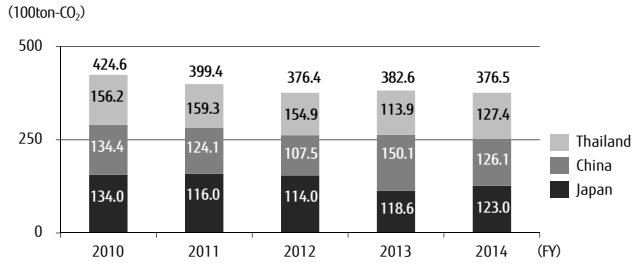
Greenhouse gas emission by business activity (CO_2 conversion)



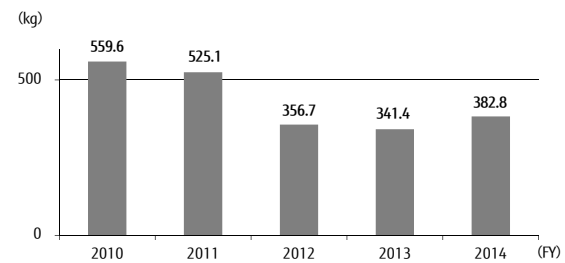
Grennhouse gas emission by production distribution in Japan (Estimated value)



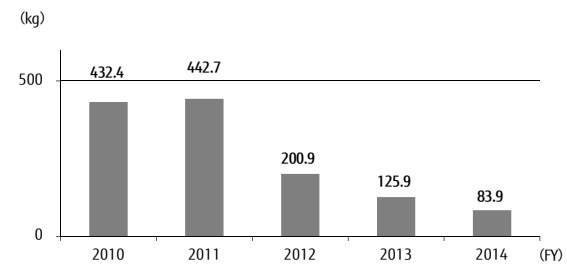
Greenhouse gas emission by energy consumption (CO_2 conversion)



Nitrogen oxides (NO_X)

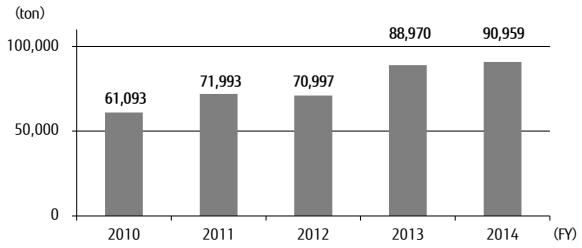


Sulfur oxides (SO_X)

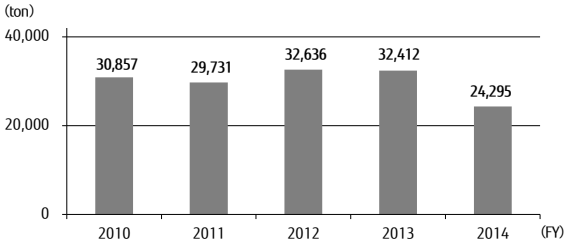


Raw material (Material / Sub-material)

■ Metal

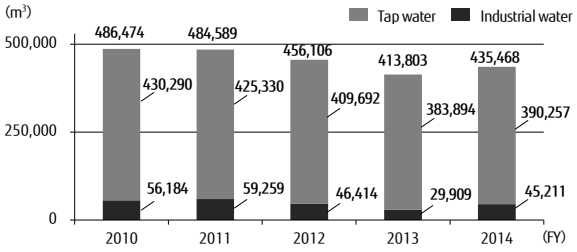


■ Other than metal (Plastic, etc)

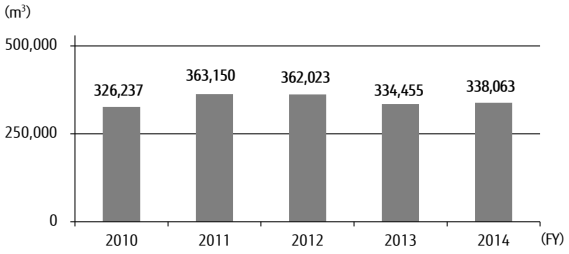


Water

■ Usage

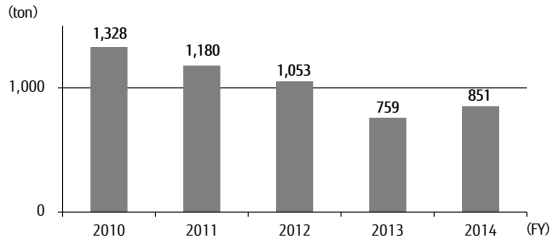


■ Emission

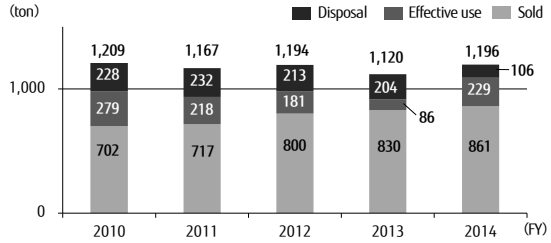


Wastes

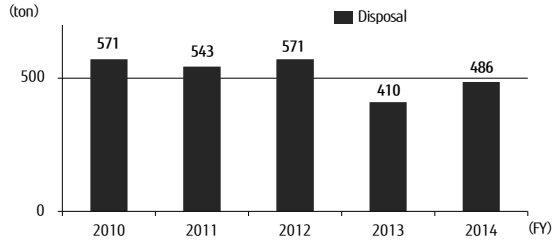
■ Waste volume of whole group *excluding disposal by sale



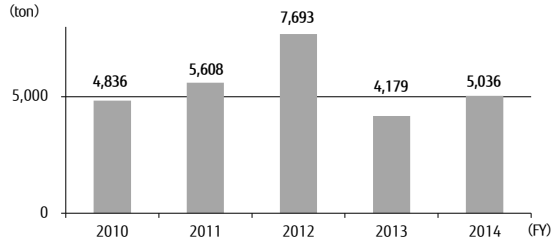
■ Total emission (Japan: Business offices / Group companies)



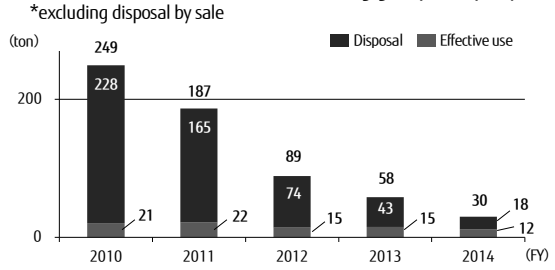
■ Waster volume (Thailand: Manufacturing group company)
*excluding disposal by sale



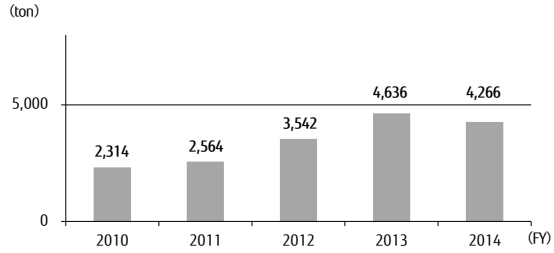
■ Sales of disused articles (Thailand: Manufacturing group company)



■ Waster volume (China: Manufacturing group company)
*excluding disposal by sale



■ Sales of disused articles (China: Manufacturing group company)



Chemical substance handling amount (PRTR Law subject substance)

FY2014

Chemical substance	CAS number	Handling amount (kg)
Xylene	1330-20-7	139
Toluene	108-88-3	1,290
Lead	7439-92-1	190
Tritolyl phosphate	1330-78-5	110

Regarding chemical substance of which handling amount in FY2014 was more than 100kg at each business office and group company in Japan, the handling amount in Japan was added up.

Electric home appliance recycling results

■ Recycling results

Item	FY	Air -conditioner	TV		Refrigerator Freezer	Washing machine Cloth dryer
			CRT type	LCD / Plasma type		
【 Recycling results 】						
Accepting quantity at specified acceptance place	FY 2013	189,826 units	3,030 units	264 units	189,826 units	9,397 units
	FY 2014	152,809 units	2,584 units	199 units	124,880 units	7,228 units
Product recycling disposed quantity	FY 2013	177,088 units	3,025 units	277 units	156,259 units	8,900 units
	FY 2014	164,417 units	2,604 units	207 units	134,485 units	7,797 units
Product recycling disposed weight	FY 2013	7,257 ton	79 ton	5 ton	9,987 ton	317 ton
	FY 2014	6,740 ton	66 ton	4 ton	8,444 ton	281 ton
Product recycling weight	FY 2013	6,894 ton	63 ton	4 ton	8,203 ton	299 ton
	FY 2014	6,416 ton	51 ton	3 ton	6,863 ton	264 ton
Product recycling rate	FY 2013	95 %	79 %	90 %	82 %	94 %
	FY 2014	95 %	77 %	89 %	81 %	94 %
【 Reuse situation by parts / material 】						
Iron	FY 2013	1,664 ton	9 ton	1 ton	3,894 ton	138 ton
	FY 2014	1,529 ton	7 ton	1 ton	3,267 ton	122 ton
Copper	FY 2013	458 ton	3 ton	0 ton	185 ton	7 ton
	FY 2014	419 ton	2 ton	0 ton	159 ton	6 ton
Aluminum	FY 2013	1,126 ton	0 ton	0 ton	110 ton	4 ton
	FY 2014	1,047 ton	0 ton	0 ton	100 ton	4 ton
Composite of nonferrous, iron, etc.	FY 2013	2,312 ton	0 ton	0 ton	1,354 ton	36 ton
	FY 2014	2,116 ton	0 ton	0 ton	1,103 ton	30 ton
CRT glass	FY 2013		31 ton			
	FY 2014		23 ton			
Other valuable items	FY 2013	1,332 ton	19 ton	2 ton	2,656 ton	112 ton
	FY 2014	1,173 ton	16 ton	1 ton	2,202 ton	99 ton
Total weight	FY 2013	6,894 ton	63 ton	4 ton	8,203 ton	299 ton
	FY 2014	6,286 ton	50 ton	3 ton	6,834 ton	263 ton
【 Situation of collection of refrigerant Freon 】						
Accepting quantity at designated collection sites	FY 2013	115,169 kg			15,117 ton	
	FY 2014	108,742 kg			12,532 ton	
Weight shipped to subcontractor of destruction	FY 2013	114,760 kg			15,082 ton	
	FY 2014	108,661 kg			12,593 ton	
Recycling and reuse weight	FY 2013	———			———	
	FY 2014	75,421 kg			5,039 ton	
Destruction weight	FY 2013	113,903 kg			14,958 ton	
	FY 2014	33,959 kg			7,606 ton	
【 Situation of collection of Freon contained in heat insulation material 】						
Collection weight	FY 2013				17,462 ton	
	FY 2014				16,384 ton	
Weight shipped to subcontractor of destruction	FY 2013				17,390 ton	
	FY 2014				16,353 ton	
Destruction weight	FY 2013				17,097 ton	
	FY 2014				16,311 ton	

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 home electric 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, Kika-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

FUJITSU GENERAL ELECTRONICS LIMITED

Corporate Overview

Established in1964 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 : 32,134m^2 ■ Building total area : 16,538m^2
- 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.

Staff message

Our company is developing and manufacturing in-vehicle cameras installed in the cars by auto makers and dealers. In FY2014, we developed image processing LSI to reduce power consumption of in-vehicle cameras by 20% compared to conventional product and used in the products.

In the future as well, by the thorough energy-saving improvement of electronic devices, we will support the promotion of the reduction of environmental burden in the automobile society.

Mr. Eisuke Okubo
Manager in charge, Business Promotion Division

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, Thungsukhla, Sriracha, Chonburi, Thailand
- Site area : 100,800m^2 ■ Building total area : 55,800m^2
- Number of employees :2,456 (as of March, 2015/including non-regular employees)

Main environmental activities

Working on the reduction of CO_2 emission through the reduction of energy consumption and control 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 Pattaya beach and temple.

Staff message

As more than 20 years has passed since the operation started, our company is renovating the old facilities sequentially to the ones with less environmental burden. Also, to enable to practice surely the idea of environmental protection in all works, the review of rules and systems is positively implemented while considering the custom of Thailand.

Furthermore, based on the concept that the conservation of environment protects the prosperous future of the country and people, the company is focusing on the enlightenment activity and environmental education.

Ms. Phattaravichittra Sriwarom
in charge of EMS (ISO14001)

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.

Staff message

As 18 years has passed since our company started operation, we are now renovating the old facilities to reduce the environmental burden. Especially, by changing the fuel for boiler from light oil to LPG, the combustion efficiency improved significantly. Also, we are working on the realization of comfortable workplace in addition to the environmental issue such as improvement of efficiency of ventilating system within the factory.

Mr. lin yongjia
Manager, Personnel & General Affairs Administration Division

FUJITSU GENERAL CENTRAL AIR-CONDTIONER (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 CO^2 by thoroughly collecting refrigerant in the production process.

Staff message

In FY2014, we replaced the air conditioner of staff canteen to the model of higher energy saving capacity. Also, we are striving to improve the efficiency of power consumption by the centralized control of air conditioners within the factory and promoting the change of the lighting in the office area to LED. In the future as well, we will promote the activity to enhance the environmental consciousness of all the people working in our company and provide better working environment to the employees.

Mr. Wang Zhe
Environmental Leader

Other manufacturing group companies

FUJITSU GENERAL ENGINEERING (THAILAND) CO., LTD.

Corporate Overview

Established in February, 1999 as a company to make research and development of air conditioners. Has been pursuing the humanly and environmentally-friendly air conditioners consistently since the establishment.

■ Location：Within Fujitsu General (Thailand) Co., Ltd.

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

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：Jiangzhou Road, Economic Develop Zone, Jingiang, 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：Within Fujitsu General Head Office

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：In the premises of Fujitsu General Hamamatsu Business Office

Sales group companies (Overseas)

Overview of Fujitsu General Group

(As of March 31, 2015)

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 23, 2015)
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	6,091 (Consolidated) 1,527 (Unconsolidated)
Directors	11 (including 3 External Directors) As of June 23, 2015
Consolidated	30 companies
Equity-method affiliates	3 companies
Net sales	274,870 million yen (Consolidated) 223,660 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

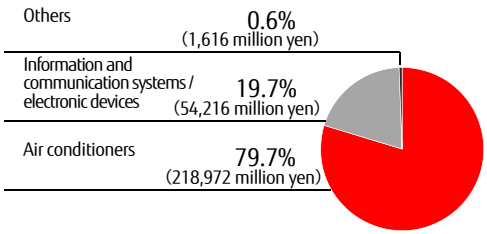
Information and communication systems / electronic

Fire-fighting system, disaster prevention system, POS system, video system, in-vehicle camera, electronic parts, unit products

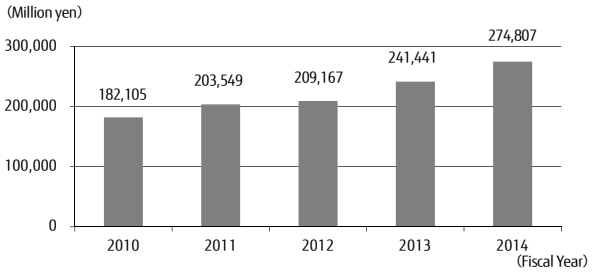
Others

Recycling of electric home appliances, radio interference measurements and consulting

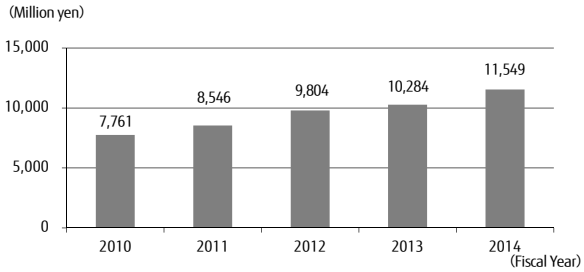
■ Sales by business segment in FY2014



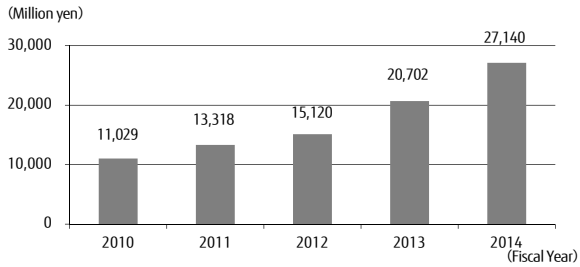
■ Net sales



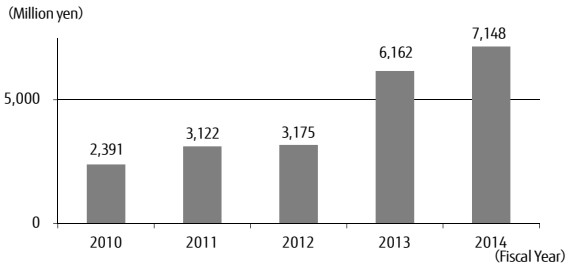
■ Research & Development cost



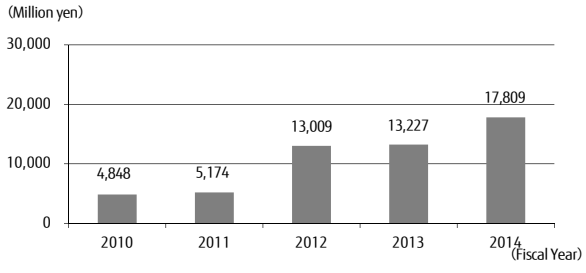
■ Operating income



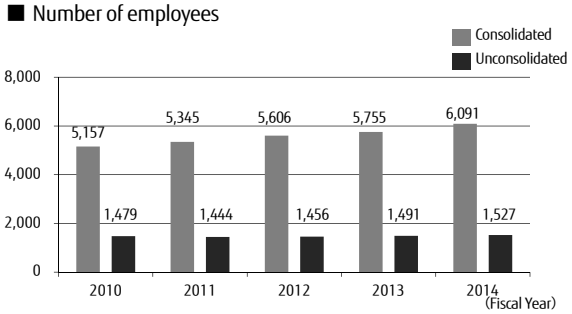
■ Capital investment



■ Net income



■ Number of employees



Questionnaire on
“FUJITSU GENERAL GROUP ENVIRONMENTAL REPORT 2015”

Thank you very much for reading “FUJITSU GENERAL ENVIRONMENTAL REPORT 2015”.
For our reference in making the next environmental report, please fill in the QUESTIONNAIRE FORM on the next page and send it back by FAX.

［ Photo ］ Nakatajima Sand Dunes（Hamamatsu City, Shizuoka Prefecture）

（ Cutoff line ）

The personal information you filled in will not be used for other purpose than our reference in making the environmental report.

ENVIRONMRNT PLANNING DEPARTMENT　ENVIRONMENTAL MANAGEMENT DIVISION
FUJITSU GENERAL LIMITED
TEL：044 - 861 - 7768

QUESTIONNAIRE FORM

FAX : 044-861-7772

ENVIRONMRNT PLANNING DEPARTMENT　FUJITSU GENERAL LIMITED

Q1 **Did you know about the environmental activity of Fujitsu General Group?**

☐ I knew　☐ I knew a little　☐ I did not know

Q2 **What did you feel after reading this report?**

<Article contents>	☐ Enough	☐ Not enough	
<Amount of information>	☐ Enough	☐ Average	☐ Not enough
<Readability>	☐ Easy to read	☐ Average	☐ Hard to read

Q3 **Which contents were you interested in? (Plural choice allowed)**

☐ Top Message　☐ Corporate Vision・Environmental Policy
☐ Fujitsu General Group Environmental Protection Program Stage VII　☐ Air Conditioners / Household Appliances
☐ Information & Communication Systems　☐ Electronic Devices
☐ Material Balance　☐ Green House Gas (GHG) Emission　☐ Wastes / Chemical Substance
☐ Flood / pollution measures / Biodiversity　☐ Recycling (Products / Packaging)
☐ Governance Framework　☐ Environmental Assessment of Products
☐ Emergency Cases / Business Continuation
☐ Environmental Auditing/Environmental Education　☐ Environmental Communication
☐ Social Activities / Commendation　☐ Data Overview　☐ Introduction of Business Offices
☐ Introduction of Group Companies　☐ Overview of Fujitsu General Group

Q4 **On what position do you read this report?**

☐ Customer of Fujitsu General products　☐ Neighborhood of Fujitsu General Group office
☐ Person in charge of company　☐ General consumer　☐ Shareholder
☐ NGO / NPO　☐ Administration　☐ School / University / Research
☐ Financial institution / Investor　☐ Student　☐ Others（　　）

Q5 **Through what did you know of this report?**

☐ Public Relation Division　☐ NGO / NPO　☐ Fujitsu General Group employee
☐ Fujitsu General Group sales staff　☐ Friend　☐ Exhibition
☐ Web page　☐ Factory visit　☐ Others（　　）

Q6 **Please describe your opinion and request regarding this report.**

NAME

ADDRESS

COMPANY　　DEPARTMENT

（ Cutoff line ）

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

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FUJITSU GENERAL LIMITED

ENVIRONMENTAL PLANNING DEPARTMENT　ENVIRONMENTAL MANAGEMENT DIVISION
3-3-17, Suenaga, Takatsu-ku, Kawasaki ,Kanagawa 213-8502, Japan
TEL:044-861-7768　FAX:044-861-7772
http://www.fujitsu-general.com/jp/corporate/eco/

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