

## Environmental Management at the Fujitsu Group

The Fujitsu Group is well aware of its mission as a global ICT organization. We are dedicated to helping to realize a sustainable society together with our customers and society as we seek more ways to reduce our impact on the environment.

### Leveraging the power of ICT to achieve sustainable growth and help to solve social and environmental issues

Since its inception in 1935, the Fujitsu Group has advanced consideration for the environment from a medium-to-long term perspective based on the principle of "operating in harmony with nature." Among the Corporate Values we have put forth in the FUJITSU Way, we state that we will strive to "protect the environment and contribute to society." Contributing to global sustainability is one of the Fujitsu Group's social responsibilities, and a reason for its existence.

ICT makes it possible to use resources and energy more efficiently and it can also play an important role in solving complex social and environmental issues. By expanding its business through ICT-based innovation and solutions that solve customers' problems, the Fujitsu Group can contribute to the realization of a prosperous, sustainable society.

Advancing efforts to lower the Fujitsu Group's own environmental burden is also important. Minimizing the amounts of energy and resources used in the life cycles of products and services will make us more competitive. Diligently working to achieve energy savings in our business activities will also result in lower costs. Doing these things is critical for securing business advantage for the Fujitsu Group.

It is based on these ideas that the Fujitsu Group, by increasing the deployment of ICT throughout society, will expand its contributions in solving environmental challenges together with customers and society. We will also do everything reasonably possible to lower the environmental burden of our business activities and will formulate environmental action plans laying out specific targets toward that end.

### Principal FY 2012 Environmental Management Results

	Green ICT Contributions to CO <sub>2</sub> Emission Reductions	Total GHG Emissions
FY 2012 targets	15 million tons or more	6% reduction compared with FY 1990
FY 2012 results	15.61 million tons (Total for FY 2009-2012)	1.01 million tons (24.4% reduction compared with FY 1990)

## Evolution fo the Fujitsu Group Environmental Action Plan

### Stages I – V (FY1995 to 2009)

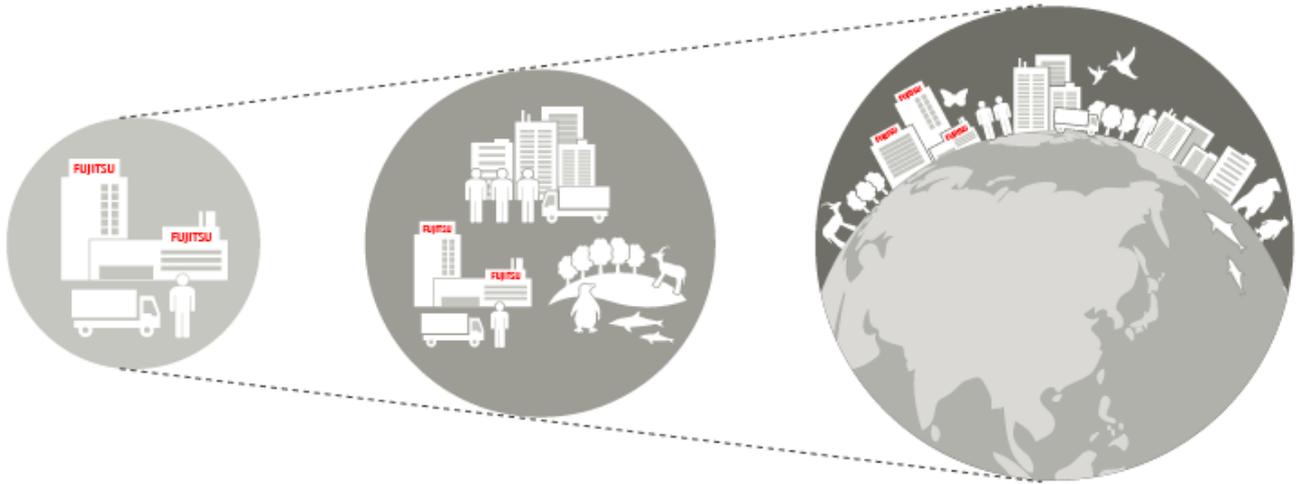
Focus on the Fujitsu Group's own consideration for the environment

### Stage VI (FY 2010 to 2012)

Focus on environmental management along three axes - Contributions to customers and society as a whole, redoubling of efforts to lower the Fujitsu Group's own environmental burden, and conservation of biodiversity

### Stage VII (FY 2013 to 2015)

Focus on expanding contributions to customers and society as a whole



- [Fujitsu Group Environmental Action Plan \(Stage VII\)](#)

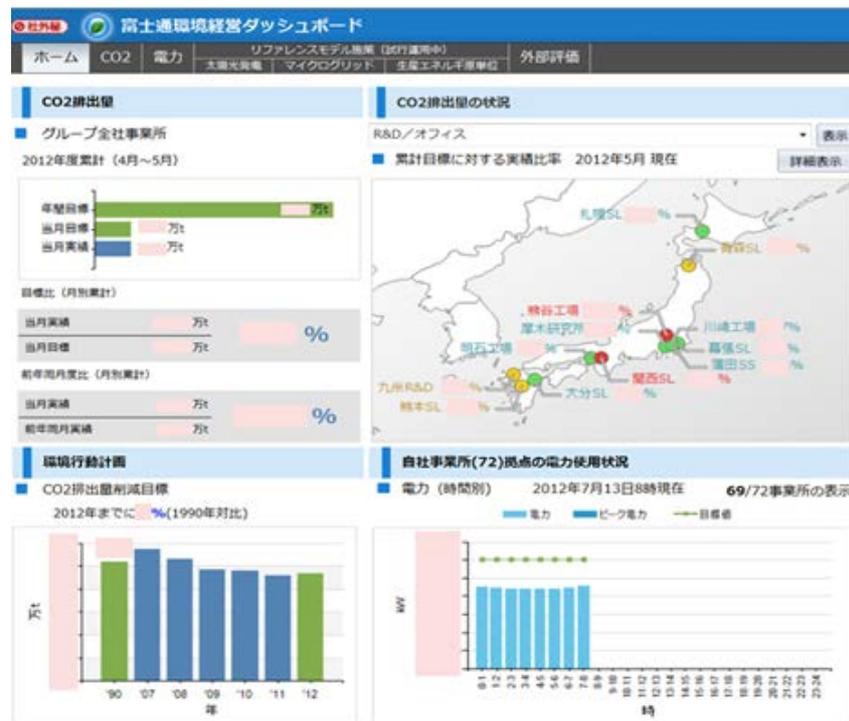
## Reinforcing Environmental Management by Utilizing ICT

In order to make our environmental management even smarter, the Fujitsu Group has constructed, and is using, the Environmental Management Dashboard - a tool that gathers and analyzes various environmental data in real time, and presents it on a central information screen.

The dashboard can show data ranging from the entire Fujitsu Group to individual business sites, departments, buildings and floors. Users can access data for the types and amounts of energy used, total GHG emissions, GHG emissions per employee or unit of floor area, year-on-year comparisons broken down by month, and various other information on a real-time basis in visual representations. Examples of other capabilities are monthly performance reports in relation to targets and an alert function. Information on the dashboard provides executives, divisional managers, on-site managers, and others with information suited to their roles and objectives. The dashboard supports decision-making at all levels, from upper management to individual employees taking action to pursue their own autonomous initiatives to protect the environment.

The Fujitsu Group is providing knowledge gained from its own use of the Environmental Management Dashboard to customers as an environmental reference model that they are incorporating into their own environmental management.

### A sample Environmental Management Dashboard screen display



- [Providing Environmental Solutions](#)

## Fujitsu Group Environmental Policy

The Fujitsu Group has established the Fujitsu Group Environmental Policy based on the principles and guidelines set forth in the FUJITSU Way.

- [Fujitsu Group Environmental Policy](#)

## Environmental Concept "Green Policy 21"

Green Policy 21 has been established to instill in all Fujitsu Group employees the ideas underlying the Group's environmental activities, and to promote the practice of these ideas in daily work.

- [Environmental Concept "Green Policy 21"](#)

## Medium-Term Environmental Vision "Green Policy 2020"

The roles the Fujitsu Group should play and the directions it should follow in the years leading up to 2020 are laid out in the Group's Green Policy 2020 medium-term environmental vision. In working to achieve the three objectives set forth under Green Policy 2020 - Benefiting customers and society, pursuing internal reforms, and preserving biodiversity - we will create technologies and solutions, and collaborate with various actors while changing the Fujitsu Group itself into a low-carbon company to realize a low-carbon, prosperous society.

- [Medium-Term Environmental Vision "Green Policy 2020"](#)

## The Green Policy Innovation Logo

The Fujitsu Group started its Green ICT project, called Green Policy Innovation, in December 2007. We began using the Green Policy Innovation Logo in November 2008 so that customers can easily identify products and services that are part of this project.

Only products that meet specific requirements may display this symbol. One category is "Green" products that meet our strict environmental criteria for recycling, energy conservation, environmentally responsible materials and other criteria. Another is "Super Green" products, which meet the highest levels of environmental criteria among all Fujitsu Group products. We also use this symbol for Environmental Solutions which can lower customers' CO2 emissions by at least 15%.



The Green Policy Innovation Logo

## Environmental Emblem

This Environmental Emblem symbolizing the stance of the Fujitsu Group with respect to the environment was unveiled in November 1994. The emblem consists of the Earth, a pair of eyes, and an infinity symbol, which is used as part of the Fujitsu Logo. The meaning is that the Fujitsu Group will always conduct its business caring for the Earth.

The Environmental Emblem can be found, among other places, in Fujitsu Group Sustainability Reports and in association with Group environmental and social contribution activities.



We care for the Earth.

Environmental Emblem

## First ICT Services Company to Garner "Eco-First" Credentials

In September 2010, Fujitsu became the first ICT services company to be certified under Japan's Ministry of the Environment's "Eco-First Program." Under the program, industry-leading companies pledge to fulfill their environmental commitments to the Minister of the Environment in areas such as countering climate change and conserving biodiversity as a way to further promote their environmental protection initiatives.



First ICT Services Company to Receive "Eco-First" Credentials

## Looking Back on FY 2012

The Fujitsu Group practices environmental management along two dimensions, i.e. making environmental contributions to customers and society, and pursuing reductions in our own environmental impact.

For the Fujitsu Group Environmental Protection Program (Stage VI), which covered the three years beginning with FY 2010, we achieved all of our targets, including four we revised upward. In two examples of our achievements as of the end of FY 2012, we contributed to a cumulative 15.61 million tons of CO2 emission reductions by customers and society from the beginning of FY 2009, and reduced total GHG emissions by 24.4% compared to FY 1990.

In FY 2012, we began to incubate an expanded range of environmentally focused business services. In one example, we began offering services based on our Environmental Management Dashboard, which visually represents, and forecasts, energy use volumes. We also began providing a cloud service usage environment to organizations working to conserve biodiversity, and engaged in other forms of cooperation with stakeholders and society to further promote protection of the global environment.

From FY 2013, we have embarked on efforts to expand contributions to the environment by doing even more to promote the use and application of ICT in society as a whole in ways consistent with our recently formulated Fujitsu Group Environmental Action Plan (Stage VII). Environmental initiatives cannot be successfully undertaken by a single company working in isolation. Through an even greater level of dialogue with our stakeholders, we will strive to promote the use of ICT for green innovation.



Corporate Executive Advisor (Environmental Strategy) Atsuhisa Takahashi	Head of Unit, Corporate Environmental Strategy Unit Minoru Takeno
--	--

## Targets and Results for the Fujitsu Group Environmental Protection Program (Stage VI)

### Action Plan and Targets for the Period from FY 2010 through 2012

In April 2010, we created the Fujitsu Group Environmental Protection Program (Stage VI) to run from FY 2010 to the fiscal year ending March 31, 2013 (FY 2012).

The program is based on the three targets established in Green Policy 2020 and defines six key areas: strengthening advanced green ICT R&D, improving the environmental value of products and services and strengthening the development and provision of green ICT, strengthening efforts to reduce the environmental burden of the Group itself, strengthening our foundation for environmental management, promoting activities that make environmental contributions to society, and promoting activities that conserve biodiversity. Moreover, we have established a further 18 items to serve as specific program targets.

### All Fujitsu Group Environmental Protection Program (Stage VI) Targets Achieved

In FY 2012, the final year of Fujitsu Group Environmental Protection Program (Stage VI), we achieved all of the fiscal year targets, thereby, also achieving all of the targets for the three years covered by the program. Among those were targets revised upward for FY 2011; namely, advanced green ICT R&D, environmental efficiency factors, renewable energy, and CO2 reduction in distribution and transportation.

#### Benefitting customers and society

##### Strengthening advanced green ICT R&D

Category	Performance (FY 2010)	Performance (FY 2011)	Targets (FY 2012)	Performance (FY 2012)
<b>Strengthening advanced green ICT R&amp;D</b>				
Develop technologies for next-generation datacenters and networking that will at least double overall efficiency of ICT products by the end of FY 2012.	1.3 times	1.5 times	Over 2 times	Over 2 times
By the end of FY 2012, more than 70% of all technology developed will be solutions for reducing burden on the environment.	58%	61%	70%	73%

**Improving environmental value of products and services, and enhancing development and delivery of green ICT**

<b>Category</b>	<b>Performance (FY 2010)</b>	<b>Performance (FY 2011)</b>	<b>Targets (FY 2012)</b>	<b>Performance (FY 2012)</b>
<b>Develop and deliver green ICT to contribute to customers and society</b>				
Provide green ICT that will reduce cumulative CO2 emissions by 15 million tons or more over the FY 2009-12 period.	5.60 million tons	9.98 million tons	15 million tons or more	15.61 million tons
<b>Develop and provide eco-friendly products (Super Green products)</b>				
With respect to newly developed green products in all departments, Super Green products that contribute to reduced environmental footprints through low energy and resource demands must comprise 30% by end of FY 2012.	17%	33%	30% or more	39%
<b>Develop and provide eco-friendly products (environmental efficiency factors)</b>				
With respect to newly developed green products in all departments, the environmental efficiency must be raised to 4.0 times FY 2008 value by end of FY 2012.*1	Raise to 3.2	Raise to 4.1	Raise to 4.0	Raise to 4.6
<b>Promote product recycling</b>				
Sustain 90% resource reuse rate of business ICT equipment globally at Fujitsu recycling centers.	93.3%	94.1%	Sustain 90%	94.3%
<b>Develop and provide environmental solutions</b>				
Promote development and provision of environmental solutions in all areas, including industry, transport, business, households, and energy conversion sectors.	Departmental and regional coverage rate: 78%	Departmental and regional coverage rate: 89%	Departmental and regional coverage rate: 100%	Departmental and regional coverage rate: 100%
Expand provision of environmental solutions in major regions, including Japan, Europe, the Americas, and Asia-Pacific.				

## Pursuing internal reforms

### Enhancing efforts to reduce the Fujitsu Group's environmental footprint

Category	Performance (FY 2010)	Performance (FY 2011)	Targets (FY 2012)	Performance (FY 2012)
<b>Reduce greenhouse gas emissions</b>				
Reduce total greenhouse gas emissions associated with manufacturing globally to 6% below FY 1990 levels by end of FY 2012 (CO <sub>2</sub> : 5% reduction, other greenhouse gases: 20% reduction).	11.7% reduction	18.2% reduction	6% reduction	24.4% reduction
<b>Reduce greenhouse gas emissions (renewable energy)</b>				
Increase use of renewable energy sources to 10 times FY 2007 levels by end of FY 2012.*1	4.8 times	11 times	10 times	11.9 times
<b>Reduce CO<sub>2</sub> in transport and distribution</b>				
Reduce CO <sub>2</sub> emissions from domestic transport to 15% below FY 2008 levels by end of FY 2012.*1	18% reduction	24% reduction	15% reduction	32% reduction
<b>Promote business partners' greenhouse gas reduction</b>				
Promote procurement from business partners that limit or reduce greenhouse gas emissions.	62.7%	98.4%	100%	100%
<b>Factory improvements (chemicals)</b>				
Reduce output of priority chemicals to 10% below FY 2007 levels by end of FY 2012.	48% reduction	60% reduction	10% reduction	62% reduction
<b>Factory improvements (waste)</b>				
Reduce waste generation to 20% below FY 2007 levels by end of FY 2012.	20.1% reduction	27% reduction	20% reduction	29.6% reduction
Maintain zero waste emissions at factories in Japan.	Status maintained	Status maintained	Status maintained	Status maintained
<b>Office improvements</b>				
Achieve four-star rating or better under the Green Office plan for every office by end of FY 2012.	Japan: Trials using new standard	Japan: 80%	Japan: 100%	Japan: 100%
	Internationally: Field survey (completed)	Internationally: completed draft evaluation standards	Internationally: Trial implementation	Internationally: Trial implementation

**Strengthening environmental governance**

Category	Performance (FY 2010)	Performance (FY 2011)	Targets (FY 2012)	Performance (FY 2012)
<b>Continuously improve globally integrated environmental management systems</b>				
Promote further ICT deployment for environmental management, build smart environmental management systems.	Trial implementation	Block application rate: 60%	Block application rate: 75%	Block application rate: 100%
To improve environmental performance, by end of FY 2012 we intend to apply a framework of assessments for the extent of target achievement and a compliance of 100% in regard to the Group's main domestic production companies.	Performance assessment procedures established	Trial implementation	Expand as far as domestic manufacturing group companies	Apply to all 23 covered business sites
<b>Promote environmental management through communications with stakeholders</b>				
Promote environmental communication at all levels to improve environmental management	Both internal and external information dissemination improved	Both internal and external information dissemination improved	Improved communication of environmental information	Both internal and external information dissemination improved

**Promoting environmental contributions to society**

Category	Performance (FY 2010)	Performance (FY 2011)	Targets (FY 2012)	Performance (FY 2012)
<b>Further elevate the environmental awareness of employees through environmental and social contribution activities</b>				
Construct the "Act-Local-System" for sharing information on social contribution activities by the end of FY 2010, and share information on environmental and social activities underway at business sites across the globe.	Network construction completed	Japan network operating. Overseas network operating	Japan network operating. Overseas network operating	Japan network operating. Overseas network operating
Continue environmental and social activities underway at business sites across the globe, and use the "Act-Local-System" to engage in activities that are more oriented toward local communities.	Japan: Implemented at all business sites	Japan: Implemented at all business sites	Japan: 1x/year	Japan: Implemented at all business sites
	Internationally: Implemented at 54% of business sites	Internationally: Implemented at 65% of business sites	Internationally: 1x/3 years	Internationally: Implemented at all business sites as of the end of FY 2012

## Preserving biodiversity

### Promoting efforts to preserve biodiversity

Category	Performance (FY 2010)	Performance (FY 2011)	Targets (FY 2012)	Performance (FY 2012)
<b>Reduce impact of company's operations on biodiversity</b>				
Develop numerical indicators to measure impact of operations on biodiversity and build system to expand contribution of ICT to reducing that impact.	Completion of numerical indicator development	4.6% reduction in level of impact (in main business areas) compared to FY 2009 as evaluated by BD integration index	3% reduction in level of impact (in main business areas) compared to FY 2009 as evaluated by BD integration index	9.6% reduction in level of impact (in main business areas) compared to FY 2009 as evaluated by BD integration index
Promote procurement from business partners that work to preserve biodiversity.	60.9%	99.2%	100%	100%
<b>Contribute to community-building that conserves biodiversity</b>				
Build case studies that contribute to biodiversity through ICT in all major offices by end of FY 2012.	Survey implementation	Pilot project based on survey results	Development at main business sites	Development at main business sites
Conduct biodiversity preservation/education programs in all offices by end of FY 2012.	Japan: Implemented at all business sites	Japan: Implemented at all business sites	Japan: Once a year	Japan: Implemented at all business sites
	Internationally: Implemented at 30% of business sites	Internationally: Implemented at 41% of business sites	Internationally: Once every three years	Internationally: Already implemented at all business sites as of the end of FY 2012

\*1:  
Target revised upward.

## **Fujitsu Group Environmental Action Plan (Stage VII)**

### **Setting Up an Action Plan and Targets for the Period from April 2013 through March 2016**

Fujitsu today announced the Fujitsu Group Environmental Action Plan, Stage VII, which sets new environmental goals for fiscal 2013 through fiscal 2015 (April 1, 2013 - March 31, 2016).

Under the plan, the Fujitsu Group seeks to expand its contribution to addressing environmental challenges for both customers and society by further promoting the deployment of ICT throughout society as a whole.

In taking a leadership role in actively pursuing our goals across its entire global value chain with customers, partners and suppliers, the Fujitsu Group strives to bring about a sustainable, prosperous society, which is at the heart of the company's corporate philosophy.

### **The Intention of Fujitsu**

Our world faces many challenges relating to population growth. These include the security of supply of energy, other resources and food, climate change, the increasing frequency of natural disasters, and loss of biodiversity. These social and environmental issues are deeply interconnected, and they cannot be managed in isolation. Society expects businesses to proactively take actions to address these challenges.

Deploying information and communications technology (ICT) in an intelligent manner can improve the efficient use of energy and other natural resources and reduce greenhouse gas emissions. ICT can also assist society preparing for and responding to natural disasters. Fujitsu believes ICT has a major role to play in helping society address the world's environmental challenges. Beyond meeting today's demands, ICT has the power to connect people, enable sharing of knowledge and experience, and shape a safer, sustainable, and more prosperous tomorrow.

Through our business activities, Fujitsu will continue to respond to these social and environmental challenges, by increasing the deployment of ICT sustainability solutions throughout society and developing new innovative technologies. As a leading ICT company, we will continue working together with our stakeholders in the global value chain including our customers, partners and suppliers to shape a sustainable and prosperous society.

## Target items

### Our Society

#### Contribution to Society by ICT: Reduce Greenhouse Gas Emissions

- Reduce greenhouse gas emissions for our customer and society over 26million tons.\*[1](#)

#### Contribution to Society by ICT: Increase Solutions

- Increase the deployment of sustainability solutions.

#### Design and Deliver Eco-efficient Products: Energy Efficiency

- Achieve top-level energy efficiency\*[2](#) of more than 50% of the newly developed products.

#### Design and Deliver Eco-efficient Products: Resource Efficiency

- Increase resource efficiency of newly developed products by 20% compared to 2011.

#### Leading Edge R&D

- Develop innovative technologies that enable solutions and products to reduce the environmental load.

#### Corporate Citizenship: Social Challenges

- Support initiatives that address the complex social and environmental challenges, e.g. biodiversity conservation.

#### Corporate Citizenship: Social Activities

- With society, support our employees to volunteer social activities.

## Our Business

### Efficient Business Operations: Reduce Greenhouse Gas Emissions

- Reduce greenhouse gas emissions in our business facilities by 20 % compared to 1990.

### Efficient Business Operations: Energy Intensity

- Improve energy intensity in our business facilities over 1% each year.

### Efficient Business Operations: Data Centers

- Improve environmental performance of our major data centers.

### Efficient Supply Chain: Logistics

- Reduce CO<sub>2</sub> emissions\*3 per sales from logistics over 4% compared to 2011.

### Efficient Supply Chain: Procurement

- Expand activities of reducing CO<sub>2</sub> emissions to all types of suppliers.

### Efficient Use of Resources: Renewable Energy

- Increase generation capacity and procurement of renewable energy.

### Efficient Use of Resources: Water

- Continue efforts for efficient use of water, e.g. water recycling and water saving.

## Continuous targets\*4

### Reduced Environmental Impact: Chemicals

- Reduce chemical emissions to less than the average level of 2009-2011 (PRTR: 21t, VOC: 258t).

### Reduced Environmental Impact: Waste

- Reduce the amount of waste to less than average level of 2007-2011 (amount of waste: 31,134t).
- Keep Zero Emission in factories in Japan.

### Reduced Environmental Impact: Recycling

- Maintain over 90% resource reuse rate of business ICT equipment at Fujitsu recycling centers.

\*1 26million tons:

Calculate the numeric target by multiplying annual sales of each solution category by a conversion factor of CO<sub>2</sub>e savings per sales which is based on around 300 case studies of Environmentally Conscious Solutions in Japan.

\*2 Achieve top-level energy efficiency:

Achieve more than 25% of market benchmark in energy efficiency such as top-runner products (first in the world or industry, top of the world or industry)

\*3 Reduce CO<sub>2</sub> emissions:

Calculate emissions of CO<sub>2</sub> equivalence from energy consumption

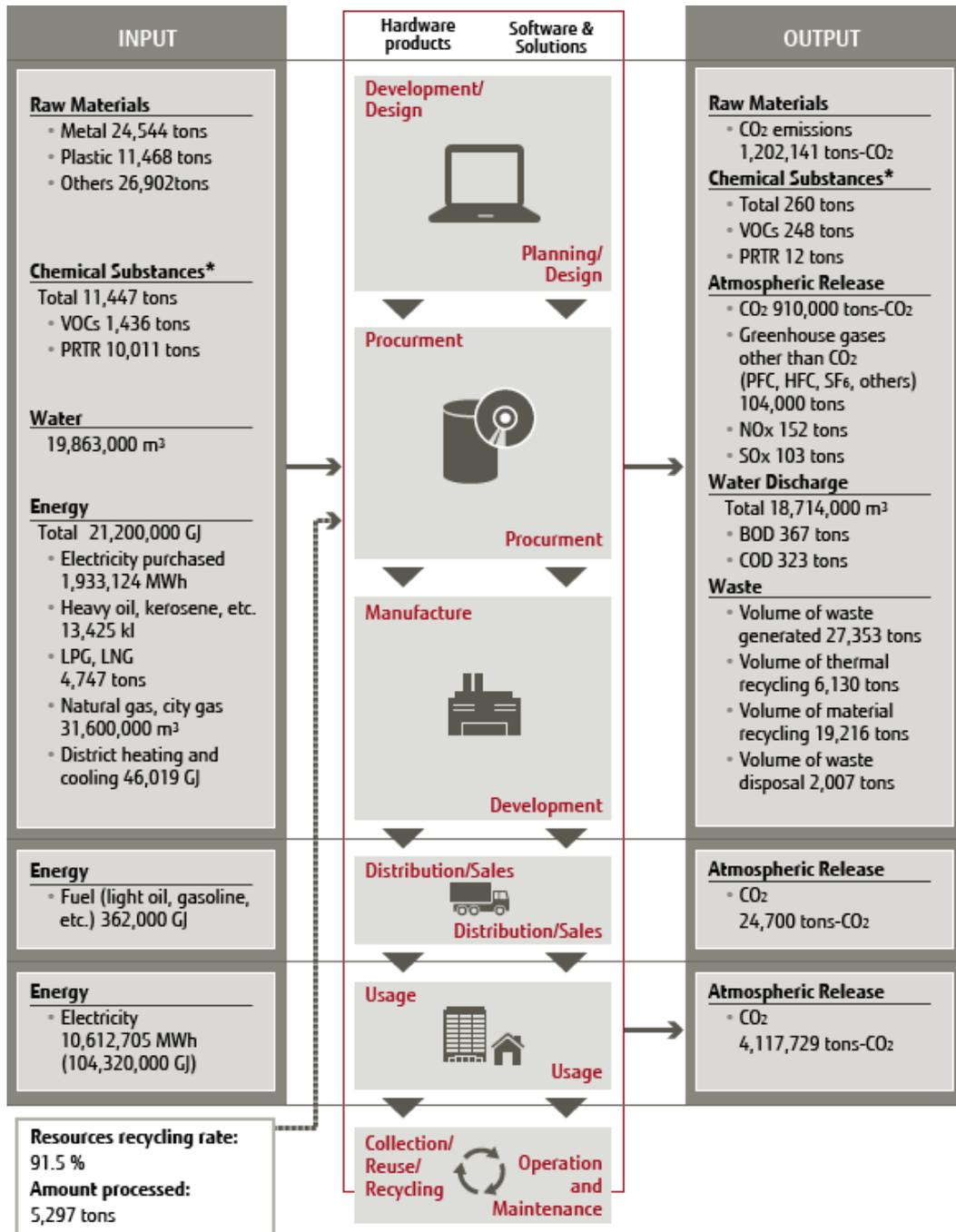
\*4 Continuous targets:

Targets to be achieved through business activity because already achieved high level performance.

# Operating Activities and Environmental Load (FY2012)

We promote environmentally friendly business activities through overall quantitative assessment of our environmental burden.

## FY 2012 Performance



\*Substances that qualify as both a PRTR targeted chemical and a VOC are included under "VOCs" only.

## FY 2012 Environmental Accounting Results

To promote environmental management, the Fujitsu Group introduced environmental accounting in FY 1998. We evaluate the efficiency of our environmental protection activities by monitoring the required costs and benefits of these activities. Through this process, we have clarified issues and promoted sharing of the results.

### Purpose of Introducing an Environmental Accounting System

- To clarify our corporate stance through disclosure of information to stakeholders
- To implement long-term, continuous environmental measures
- To raise the efficiency of investment in environmental protection measures
- To energize environmental protection activities

### Basic Environmental Accounting Elements

- Applicable period  
April 1, 2012 to March 31, 2013
- Accounting coverage  
Fujitsu and its major consolidated subsidiaries worldwide [\\*1](#)
- Calculation basis for environmental protection costs
  - **Accounting method for depreciation and amortization:** Depreciation and amortization expenses for investments are included in expenses using straight line depreciation (with no residual value) based on a useful life of 5 years. The useful life of 5 years was chosen based on the average length of the actual period from the introduction of environmental facilities to the implementation of repairs and upgrades.
  - **Basis for recording composite costs:** In regard to composite costs in which environmental protection costs are coupled with other costs, the Fujitsu Group records only the portion corresponding to environmental protection in conformance with the Environmental Accounting Guidelines 2005 issued by the Japanese Ministry of Environment.
- Calculation basis for the economic benefits of environmental protection measures
  - **Scope of benefits in environmental accounting:** The Fujitsu Group records the actual benefits and estimated benefits (risk avoidance benefit and deemed benefit) of reducing environmental impact related to the following items.
    - Benefit of reducing the environmental impact related to resource usage in business activities
    - Benefit of reducing the environmental impact related to environmental loads and waste emissions resulting from business activities
    - Benefit of reducing the environmental impact related to goods and services produced by business activities
    - Benefit of reducing the environmental impact related to transportation and other activities
  - **Investment benefit materialization period and basis:** The accounting period for actual economic benefits has been aligned with the depreciation and amortization period for investments (60 months). However, the accounting period for economic benefits derived from reducing personnel costs related to the environmental management system is 12 months, in line with the main thrust of the environmental management system, which is reviewed every year. With regard to estimated economic benefits, the accounting period for economic benefits derived from capital investment is the same as the depreciation and amortization period (60 months) for actual economic benefits. Benefits corresponding to a given fiscal year, such as the amount of contribution to environmental protection and the avoidance of operational losses, are recorded only for that fiscal year. The basis for accounting for economic benefits is as follows.

- Contribution of environmental protection activities to added value derived from production activities  
 The Fujitsu Group recognizes support provided by environmental protection activities to production activities as an economic benefit. Accordingly, the amount of contribution is determined by multiplying the added value derived from production activities by the ratio of the maintenance and operation cost for environmental protection facilities to the total facility cost of each site.  

$$\text{Contribution} = \text{Added value} \times \text{Maintenance and operation cost for environmental protection facilities} / \text{total facility cost}$$
- Avoidance of operational loss at business sites due to non-compliance with laws and regulations  
 The Fujitsu Group recognizes the avoidance of operational loss as the amount of loss that is avoided in the event of the materialization of risk arising from neglect to make upfront investments needed to comply with laws and regulations. The number of operational loss days is determined based on the size of investment related to the environment, but shall not exceed three days.  

$$\text{Benefit} = \text{Added value} / \text{Operational days} \times \text{Operational loss days}$$
- Benefit of public relations activities  
 This benefit is calculated by converting publicity efforts related to environmental protection activities in newspapers, magazines and TV into an advertising cost.  

$$\text{Benefit} = \text{Advertising cost of newspapers, magazines and TV} \times \text{Number of advertisements ran and programs broadcast}$$
- R&D benefit  
 The Fujitsu Group calculates the amount of additional earnings resulting from the contribution of R&D achievements for environmental protection purposes, such as Super Green Products and environmental solutions.

\*1 Fujitsu's major consolidated subsidiaries worldwide:

FUJITSU ISOTEC LIMITED, FUJITSU IT PRODUCTS LIMITED, Fujitsu I-Network Systems Limited, Fujitsu Interconnect Technologies Limited, Fujitsu VLSI Limited, Ecolity Service Limited, FDK CORPORATION, FUJITSU OPTICAL COMPONENTS LIMITED, FUJITSU KASEI LIMITED, Fujitsu Laboratories Limited, FUJITSU COMPONENT LIMITED, Shimane Fujitsu Limited, FUJITSU PERIPHERALS LIMITED, SHINKO ELECTRIC INDUSTRIES CO., LTD., FUJITSU SEMICONDUCTOR LIMITED, Fujitsu Semiconductor Technology Inc., Fujitsu Telecom Networks Limited, Fujitsu Ten Limited, TOCHIGI FUJITSU TEN LIMITED, TRANSTRON Inc., PFU Limited, FUJITSU FRONTTECH LIMITED, Fujitsu Mobile-phone Products Limited, Fujitsu Wireless Systems Limited, Fujitsu Computer Products of Vietnam, Inc., Fujitsu Network Communications, Inc., Fujitsu Telecommunications Europe Limited, FUJITSU TECHNOLOGY SOLUTIONS (HOLDING) B.V.

The Fujitsu Group also aggregates data on R&D costs and benefits related to environmental solutions from subsidiaries other than those shown above. However, the data is aggregated solely for environmental solution costs and benefits, so the relevant subsidiaries are not included in the scope of disclosure for major consolidated subsidiaries.

## Fiscal 2012 Environmental Accounting Results

### Breakdown of Results (Investment and costs) [billion yen]

Fiscal 2012 Environmental Accounting Results - Breakdown of Results (Capital investment, costs, economic benefits)

Item		Main areas covered	Capital investment (billion yen)	Costs (billion yen)	Economic benefits (billion yen)
Business area costs/benefits	Pollution prevention costs/benefits	Air/water pollution prevention, etc.	0.40(-0.39)	4.29(-0.45)	6.71(-0.40)
	Global environmental conservation costs/benefits	Global warming prevention, saving energy, etc.	0.86(-0.90)	3.11(-0.02)	1.77(+0.05)
	Resource circulation costs/benefits	Waste disposal, efficient utilization of resources, etc.	0.05(-0.04)	2.53(-0.29)	10.95(-0.10)
Upstream/downstream costs/benefits		Collection, recycling, reuse, and proper disposal of products, etc.	0.00(-0.02)	0.83(-0.09)	0.46(-0.04)
Administration costs/benefits		Provision and operation of environmental management systems, environmental education of employees, etc.	0.12(-0.50)	3.26(-1.01)	0.49(-1.05)
R&D costs/benefits		R&D on products and solutions that contribute to environmental protection, etc.	0.52(+0.17)	24.07(+3.13)	52.11(+2.97)
Social activity costs		Donations to, and support for, environmental groups, etc.	0.00(±0.00)	0.03(±0.00)	-
Environmental remediation costs/benefits		Restoration and other measures related to soil and groundwater contamination, etc.	0.04(±0.00)	0.15(+0.02)	0.40(+0.20)
<b>Total</b>			<b>1.99(-1.67)</b>	<b>38.26(+1.27)</b>	<b>72.89(+1.64)</b>

- Numbers in parentheses indicate increases or decreases in comparison with the previous year.
- Due to rounding, figures in columns may not add up to the totals shown.
- Items shown as "0.00" include items for which the value was smaller than the display units used.

### Costs and Economic Benefits in FY 2012

The results of this accounting for FY 2012 showed costs of 38.26 billion yen (a 3.4% increase from the previous year) and the economic benefits were 72.89 billion yen (a 2.3% increase from the previous year). Thus both costs and benefits increased. Also, our capital investment was 2.00 billion yen (a 45.4% decrease from the previous year).

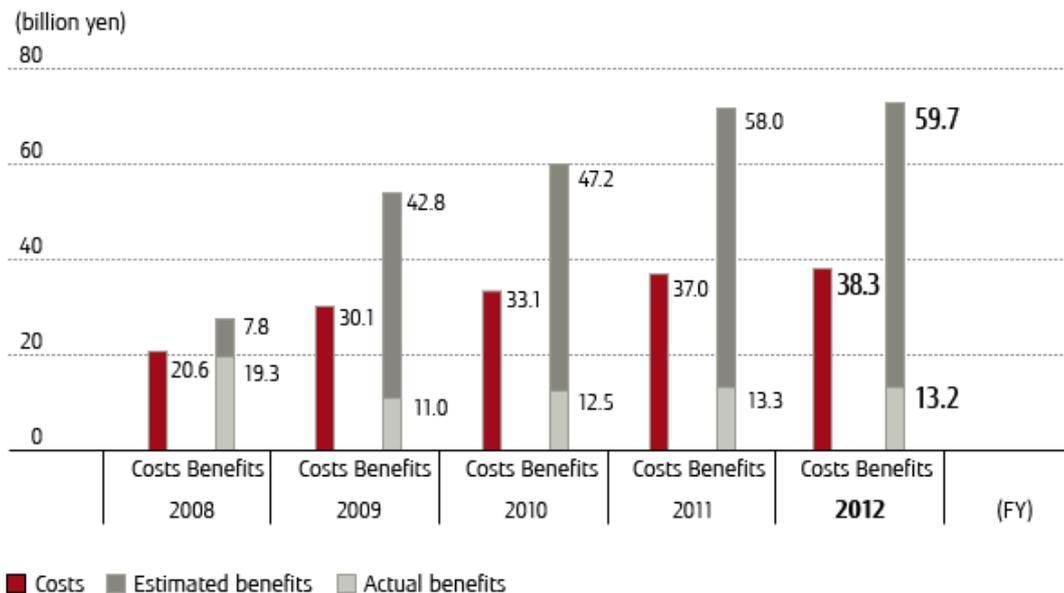
## Reasons for Changes in Costs and Economic Benefits

Costs increased by about 1.3 billion yen compared to the previous year. Decreases of about 0.5 billion yen in pollution prevention costs, about 0.3 billion yen in resource circulation costs, and about 1.0 billion yen in administration costs were recorded, but were outweighed by an increase of 3.1 billion yen in R&D costs. Pollution prevention costs and resource circulation costs fell because businesses were sold off and activity declined in related businesses. The decline in administration costs resulted from a review of applicable cost items for environmental advertising. R&D costs, meanwhile, grew considerably as a result of the Fujitsu Group's drive to come up with products and solutions that contribute to environmental protection for the benefit of customers and society.

Economic benefits increased by about 1.6 billion yen compared to the previous year. Decreases of about 0.3 billion yen in pollution prevention benefits, about 0.2 billion yen in resource circulation benefits, and about 1.0 billion yen in administration benefits were recorded, but were more than offset by an increase of about 3.0 billion in R&D benefits. The decline in pollution prevention benefits resulted from a decrease in new pollution-control-related capital expenditures at manufacturing plants and a resulting decrease in operating loss risk avoidance benefits. Resource circulation benefits fell because of lower gains on sales of unnecessary goods at manufacturing plants. Administration benefits fell because of lower environmental advertising costs, following a review of applicable cost items for environmental advertising, and resulting lower estimated benefits from that environmental advertising. As for R&D benefits, our ability to continuously provide products and solutions that contribute to environmental protection for the benefit of customers and society resulted in an increase in economic benefits determined via our proprietary estimation method.

R&D costs and benefits, therefore, both grew steadily in FY 2012. In the future, we will continue to refine environmental management by evaluating our environmental protection activities using environmental accounting.

### Trends in Costs and Economic Benefits



# The History of Fujitsu's Environmental Activities

## The History of Fujitsu's Environmental Activities

<b>1935</b>	Park-style design adopted for new Kawasaki Plant at suggestion of Fujitsu's founder, Manjiro Yoshimura.
<b>1938</b>	Kawasaki Plant completed.
<b>1972</b>	Environmental control sections established at each plant.
<b>1987</b>	Ozone Layer Protection Committee established.
<b>1989</b>	Environmental Committee established.
<b>1990</b>	Environmental management evaluation system implemented.
<b>1991</b>	Environmental Engineering Promotion Center established.
<b>1992</b>	Fujitsu's Commitment to the Environment formulated. Use of CFCs and carbon tetrachloride for cleaning eliminated. Energy Saving Committee established.
<b>1993</b>	Product Recycling Committee established. Waste Control Committee established. Fujitsu Environmental Protection Program (Stage I) formulated. Product Environmental Assessment Guidelines formulated. Domestic Affiliated Companies' Environmental Protection Council established. Environmental Information Service (FJ-CUG) inaugurated.
<b>1994</b>	First issue of Eco-Plaza environmental bulletin published. Use of 1,1,1-trichloroethane eliminated. 1st Fujitsu Group Environmental Technology Exhibition held. Fujitsu Environmental Emblem designed. Overseas Environmental Information Network began operations.
<b>1995</b>	Environmental Management System Committee established. Recycling system established and implemented. Fujitsu Group Worldwide Environmental Protection Council established.
<b>1996</b>	Fujitsu Environmental Protection Program (Stage II) formulated. Environmental Engineering Center homepage placed on intranet. Chemical Emissions Reduction Committee established. First Environmental Report published.
<b>1997</b>	Environmental homepage established on Fujitsu website. All domestic manufacturing sites certified ISO14001 compliant.
<b>1998</b>	Reforestation activities started in Thailand. Green Product program launched.
<b>1999</b>	Environmental accounting introduced. Reforestation activities started in Vietnam.

<b>2000</b>	Four development and service sites in Japan certified ISO14001 compliant. Corporate Environmental Affairs Unit established. Desktop PC awarded Eco-mark for first time.
<b>2001</b>	Fujitsu Environmental Protection Program (Stage III) formulated. Calendar using paper from sustainable forest published. Reforestation activities started in Malaysia.
<b>2002</b>	A world's first: Tin-zinc-aluminum lead-free solder developed. A world's first: Biodegradable plastic parts with lower environmental load employed in notebook computers. Fujitsu Group Environmental Policy established. A world's first: Magnesium alloy recycled in-house applied in notebook computers.
<b>2003</b>	Support for reforestation activities employing Rhythm Forest reforestation network game initiated. Zero waste emission achieved by all 13 plants in Japan.
<b>2004</b>	ISO14001 integrated certification acquired by all Fujitsu Limited sites, among largest systems in Japan. 100% Green Product ratio achieved for all newly developed products. Fujitsu Group Environmental Protection Program (Stage IV) formulated.
<b>2005</b>	ISO14001 certification acquired by all Group companies in Japan. Supply of Super Green Products began.
<b>2006</b>	ISO14001 globally integrated certification acquired, including overseas Group companies. Established global environmental management framework for the Group as a whole.
<b>2007</b>	Fujitsu Group Environmental Protection Program (Stage V) formulated. Green Policy Innovation project, which reduces our customers' environmental load through green ICT, started.
<b>2008</b>	Green Policy 2020 medium-term environmental vision formulated.
<b>2009</b>	Biodiversity Action Principles formulated.
<b>2010</b>	Fujitsu Group Environmental Protection Program (Stage VI) formulated.
<b>2011</b>	Environmental Management Dashboard operations began full-scale.
<b>2012</b>	Further empowered the Environmental Committee and established the Environmental Management Committee chaired by the Company's President.
<b>2013</b>	Formulated the Fujitsu Group Environmental Action Plan (Stage VII).