

Top Message	Interview to Head of Corporate Environmental Strategy Unit	Special Feature: Human Centric Intelligent Society	Fujitsu Group Environmental Action Plan Stage VII	Chapter I Contribution to Society	Chapter II Reducing Our Environmental Burden	Environmental Management	Data Overview
Environmental Management		Green Procurement	Initiatives to Minimize Environmental Risk	In-House Environmental Educational and Enlightenment Activities		Communication with Society	

# Environmental Management

Since our founding in 1935, the Fujitsu Group has made the initial concept of “operating in harmony with nature” our cornerstone. We have now set “In all our action, we protect the environment and contribute to society” as our corporate value under the FUJITSU Way. Contributing to the sustainability of the planet is a social responsibility of the Fujitsu Group and a reason for our existence. We will build relationships of trust with a wide range of stakeholders and will work to preserve the environment throughout our value chain.

P. 45	<b>Environmental Management</b>	Endeavoring to make sustainable improvements to environmental management systems based on ISO14001, the Group is promoting unified environmental management.
P. 47	<b>Green Procurement</b>	To provide customers with products and services that have a light environmental footprint, we are implementing green procurement in concert with our business partners.
P. 48	<b>Initiatives to Minimize Environmental Risk</b>	To minimize the risk of polluting the environment and disrupting ecosystems, the Group is continuing such initiatives as setting voluntary control values that are tougher than those designated by laws and regulations.
P. 49	<b>In-House Environmental Educational and Enlightenment Activities</b>	We carry out various forms of environmental education and enlightenment training based on the belief that, “to promote environmental management, it is essential to raise the environmental awareness of each and every employee and to take proactive measures.”
P. 50	<b>Communication with Society</b>	The Fujitsu Group works to communicate with our customers, employees, business partners, shareholders, investors, local and international communities, and all of our diverse stakeholders.

## Evaluation by Outside Institutions

The Fujitsu Group has earned praise from external institutions for its active promotion of environmental and social initiatives, and has been included among Socially Responsible Investment (SRI) brands.



Recognition: Climate Performance Leadership Index (CPLI)  
Evaluating institution: CDP



Recognition: Dow Jones Sustainability Indexes (World, Asia Pacific)  
Evaluating institution: Dow Jones & Co., RobecoSAM AG



Recognition: FTSE4Good Index Series  
Evaluating institution: FTSE International Ltd.



Recognition: oekom Corporate Rating  
Evaluating institution: oekom research AG



Recognition: Morningstar Socially Responsible Investment Index  
Evaluating institution: Morningstar, Inc.



Recognition: UN Global Compact 100  
Evaluating institution: U.N. Global Compact

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# Environmental Management

Endeavoring to make sustainable improvements to environmental management systems based on ISO14001, the Group is promoting unified environmental management.

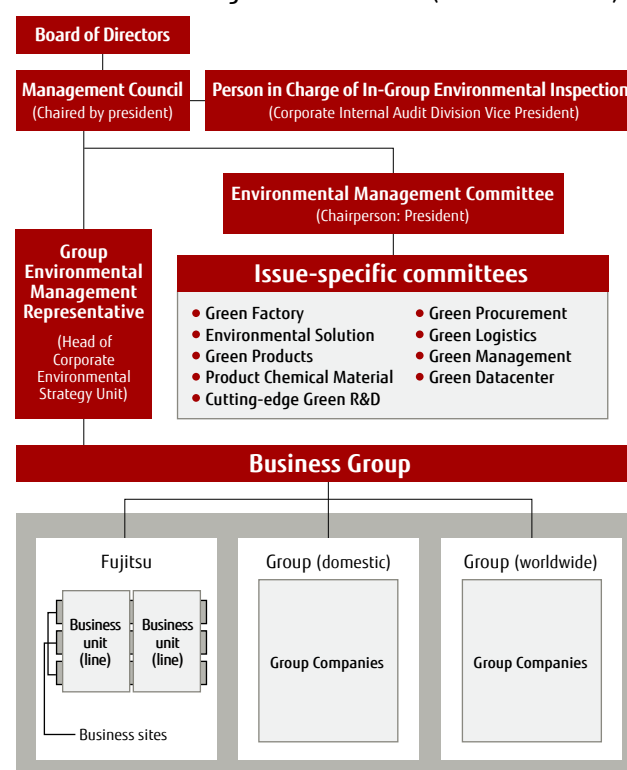
## Environmental Management Framework

To conduct a comprehensive discussion of the Fujitsu Group's environmental management, we have established an Environmental Management Committee chaired by the president. This committee is considering medium-term issues, implementing policy decisions, and discussing methods for handling and sharing operating risks and opportunities from climate change, all with the aim of raising the level of the group's environmental management and strengthening its governance. Based on that, final decisions on environmental management at the Fujitsu Group are made at meetings of the Management Council and reported to the Board of Directors.

Subordinate to the Environmental Management Committee, we have organized environmental issue-specific committees composed of concerned parties that go beyond the framework of business groups and business units. Through this promotion structure, we are making it possible to quickly diffuse initiatives on these issues throughout the group.

We have also established an Environmental Management Working Group subordinate to the Green Management Committee that is working to unify global information transmission and strengthen environmental management systems (EMS) activities.

Environmental Management Framework (as of March 2015)



## Configuration and Operation of Environmental Management Systems

The Fujitsu Group has constructed environmental management systems (EMS) based on the ISO 14001 international standard and is promoting environmental improvement activities across the Group. By EMS construction worldwide, the Fujitsu Group further strengthened its Group governance. This also allows the Group to promote even more efficient and highly effective environmental activities, including understanding the state of activities, legal compliance and emergency response.

As of the end of FY 2014, the Fujitsu Group has acquired global integrated ISO 14001 certification for a total of 77 companies of Fujitsu and its domestic group companies, as well as for 10 overseas Group companies. Our 13 overseas consolidated subsidiaries that are not production base sites have constructed and are operating an EMS in line with Fujitsu Group environmental policies. In this way, we have established an environmental management structure across the whole Group.

### Environmental management systems operational status

		FY 2012	FY 2013	FY 2014
Internal audit	Findings	277	218	148
	Findings	6	3	5
External audit	Opportunities for improvement	67	70	89
	Violations of environmental laws	7	3	5

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## Environmental Management

### Internal Audit Implementation and Results

The Fujitsu Group is carrying out internal audits, a requirement of ISO 14001. To ensure the objectivity and independence of internal audits, the Corporate Internal Audit Division, which is unaffiliated with any line organization, takes the lead, allocating internal auditors who belong to Fujitsu or Fujitsu Group companies to carry out internal audits.

In FY 2014, we carried out internal audits for Fujitsu or Fujitsu Group factories, offices, and other facilities at 391 sites in Japan and 14 overseas. For this audit, we scrutinized the results of the FY 2013 internal audit and external audit and found four major focal points: (1) compliance, (2) operational control, (3) education and training, and (4) proprietary EMS operational organization. As a result of these internal audits, we discovered 148 findings, 70 fewer than in FY 2013. The fact that the ratio of findings to audits declines every year suggests that our environmental management system has taken hold.

Domestically, 40 percent of findings involved legal compliance and operational control. Many of the findings for the former were related to industrial waste disposal and for the latter many were related to chemical substances.

And overseas, receiving cooperation from external organizations and experts thoroughly knowledgeable in local laws and regulations and operation, we carried out internal audits with the objective of strengthening compliance. As a result, regarding the content of the findings, some 40 percent related to "legal and other requirements" and "operational control."



An internal audit being conducted overseas

### External Audit and Results

To maintain our ISO 14001 certification, we were audited in Japan by the Japan Audit and Certification Organization for Environment and Quality (JACO). Outside Japan, we were audited by DNV GL Business Assurance Japan K.K.

As a result, 89 areas, for our organizations in Japan, and 41 areas, for our overseas Group companies, were pointed out as opportunities for improvement. Five minor nonconformities were identified at our overseas entities. We have completed corrective actions against these matters as of the end of FY 2014. Moreover, external audit findings were shared throughout the Group, and we plan to confirm the status of these matters in the FY 2015 internal audit.

These audits were carried out, and as a result of the judgment of the two certifying bodies, we were granted renewal of our ISO 14001 certification.

### Status of Environmental Compliance

While the Fujitsu Group committed no major violations of environmental laws and caused no accidents that had any major impact on the environment in FY 2014, there were five events in which laws were violated. They consisted of one violation related to industrial waste processing manifests and four deficiencies in notification documents.

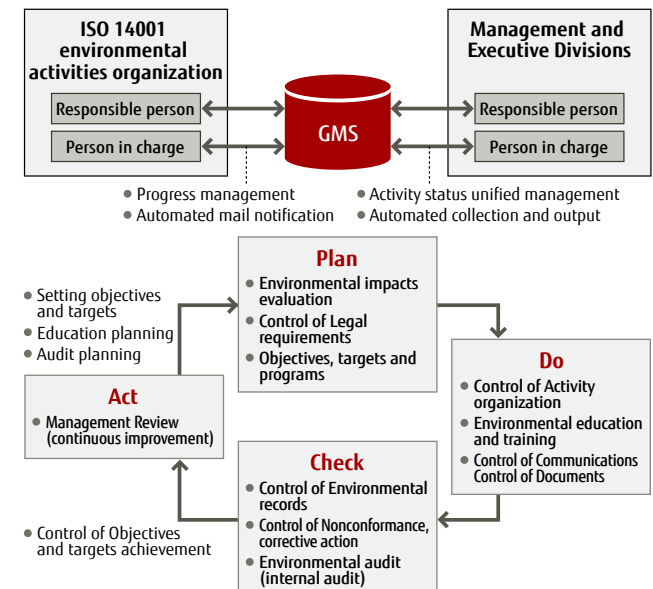
Legal violations continued to be few in number, but we will aim to make our self-checks even more thorough and bring the number of violations to zero. Also, with regard to industrial waste, we will select outstanding waste processors while configuring a structure to eliminate administrative violations related to waste from offices.

### Use of the ISO 14001 Green Management System

The ISO 14001 Green Management System (GMS) is used to exercise unified control over the operational status of the EMS, and to monitor the situation involving improvements to, and legal compliance with: nonconformance issues notified at environmental audits, communications activities, direct and indirect effects and risk/countermeasure levels identified in environmental impact assessments, and the setting of environmental objectives and targets.

This enables corrective measures and objectives to be soundly managed, and effectively ensures continual improvement of the activities with reduced risks.

#### ISO 14001 Green Management System



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## Green Procurement

To provide customers with products and services that have a light environmental footprint, we are implementing green procurement in concert with our business partners.

### Procurement Activities Based on Green Procurement Direction

The Fujitsu Group summarized what it asks of its business partners when purchasing green parts, material and products in the "Fujitsu Group Green Procurement Direction" and is promoting green procurement activities with domestic and international business partners. We have five requirements (table below) for our business partners and promote procurement from business partners that fulfill these requirements.

Using an original Environmental Survey for business partners, we investigate the situation with regard to business partners' EMS construction, CO<sub>2</sub> emission control/reduction, biodiversity preservation and water resource preservation activity, and ask them to take appropriate measures.

#### Green procurement requirements for business partners

Requirements	Materials/parts business partners*	Non-materials/parts business partners
① Establishment of environmental management systems (EMS)	○	○
② Compliance with regulations for Fujitsu Group specified chemical substances	○	—
③ Establishment of chemical substance management systems (CMS)	○	—
④ CO <sub>2</sub> emission control/reduction initiatives	○	○
⑤ Biodiversity preservation initiatives	○	○

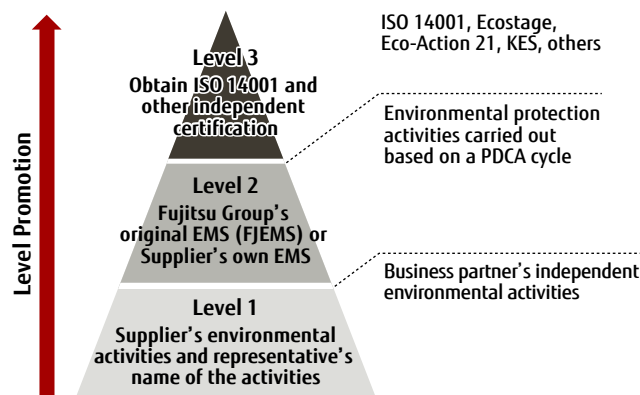
\* **Materials/parts business partners:** Business partners who supply components of Fujitsu Group products or OEM/ODM products

### Establishment of Environmental Management Systems

We request our business partners to establish an environmental management systems (EMS) to ensure that they continuously implement environmental burden reduction activities. We also conduct surveys to determine their EMS level (refer to the following diagram). For business partners whose survey responses indicate a level 1 EMS, we will provide the Fujitsu Group's original EMS (FJEMS\*1) and support the business partner's independent EMS efforts.

\*1 **FJEMS:** The Fujitsu Group's own EMS, which has requirements drawn from ISO 14001 requirements and aims to promote environmental protection activities based on a PDCA cycle.

#### Establishment of EMSs for Green Procurement



### CO<sub>2</sub> Emission Control/Reduction Initiatives

We have made CO<sub>2</sub> emission reduction, an important issue in environmental conservation, a requirement for green procurement from our business partners, and we ask them to carry out CO<sub>2</sub> emission reduction and control activities with target amounts. (See Page 37.)

### Acquiring Information on Chemical Substances Contained in Products

The Fujitsu Group is investigating information on chemical substances contained in suppliers' products by using AIS\*2 and MSDSplus\*3 offered by JAMP.\*4 The investigations take place when products are designed, designs are changed or business partners are changed, and information gathered is shared through our internal chemical substance information management system. To address chemical substance management through the value chain as a whole, we plan to appeal to primary business partners and those further up the value chain in the future.

Also, we are proactively participating in activities to standardize investigations related to green procurement promoted by JAMP and others.

\*2 **AIS (Article Information Sheet):** Information sheet for information on chemical substances in molded products.

\*3 **MSDSplus (Material Safety Data Sheet plus):** Information sheet for information on chemical substances in chemicals and preparations.

\*4 **JAMP:** Joint Article Management Promotion-consortium

### Establishment of a Chemical Substance Management System (CMS) for Product Substances

The Fujitsu Group asks its business partners to establish a chemical substances management system (CMS) based on JAMP guidelines on the management of chemical substances contained in products.

We carry out CMS audits where Fujitsu's auditors directly confirm the management of chemical substances at the business partner's manufacturing bases, and if the system established is inadequate, auditors make requests for corrections and provide support. Afterwards, we regularly confirm the system state and its operational status through periodic audits. With the understanding of our business partners, the Fujitsu Group will continue carrying out management of chemical substances included in products.

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## Initiatives to Minimize Environmental Risk

To minimize the risk, the Fujitsu Group is continuing such initiatives as setting voluntary control values that are tougher than those designated by laws and regulations throughout the entire value chain.

### Environmental Pollution Prevention and Preparations for Climate Change Risks

We are preparing rules that designate a response to accidents and emergency situations in case of the rare occurrence of environmental risks and educating employees on how to carry them out correctly. Additionally, there is the possibility of significant impacts on our business continuity from increases in the frequency and effects of natural disasters as a result of recent climate changes. We have formulated a business continuity plan and are devoting effort to continually revising and improving the plan.

### Preventing Air Pollution

We have set voluntary control values that are more stringent than legally mandated emissions standards in order to prevent air pollution and limit acid rain. Regular measurement and monitoring is conducted based on these controls. Efforts are made to appropriately process dust and soot, sulfur oxide, nitrogen oxide, and other harmful substances, and reduce emissions. Furthermore, we are reducing the atmospheric discharge of organic solvent vapors containing substances like VOCs.

In addition, emission of dioxins has been prevented by suspending use of all in-house incineration facilities as of January 2000.

### Preventing Water Pollution

In order to preserve the water quality of surrounding waterways, including rivers, groundwater and sewers, we have

set voluntary controls that are even tougher than legal mandates, and conduct regular measurement and monitoring on this basis. We recover and recycle chemicals used in production processes, instead of discharging them into wastewater. And we are working to reduce discharges of harmful substances and other regulated substances (COD, BOD, etc.) by ensuring appropriate chemical use, preventing chemical leaks and permeation, and properly managing the operations of water treatment and purification facilities, among other measures.

### Preventing Pollution of Soil and Groundwater

We have established rules for soil and groundwater surveys, measures and disclosure. We review these in accordance with changes in the law and social circumstances, and respond based on these rules. We systematically examine soil and groundwater, based on the rules, and if pollution is confirmed, we carry out cleanup and countermeasures at each plant according to the situation, while disclosing information in concert with administrative agencies.

As of FY 2014, there are seven business sites where soil and groundwater pollution from prior business activities have been confirmed. At those business sites, we have installed observation wells to observe effects outside the site due to groundwater pollution, while also working on purification measures through water-lifting aeration, etc. (See Page 56.)

### Chemical Substance Control

To prevent pollution of the natural environment or damage to health due to the use of harmful chemical substances, we are controlling the use of some 1,300 substances using the original

Chemical Information System called "FACE" and working to appropriately control and reduce emissions at our business sites. (See Page 40.)

Furthermore, with regard to chemical substances included in products, we have determined banned substances and are working to thoroughly control them, including both inside the company and with business partners. (See Page 47.)

### Appropriately Processing Waste

In order to confirm that subcontractors are appropriately handling the waste processing tasks we entrust to them, we regularly carry out on-site audits.

In addition, with regard to high concentration polychlorinated biphenyl (PCB) waste (transformers and condensers) processing, we have registered with the Japan Environmental Storage & Safety Corporation (JESCO), which carries out PCB waste interim storage and disposal under government supervision, and are carefully carrying out processing based on JESCO plans.

### Concerning Biodiversity

In FY 2009, we settled on the Fujitsu Group Biodiversity Action Principles, and promote them based on the two pillars of reducing the impact of our activities on biodiversity and contributing to the creation of a society that conserves biodiversity.

At our business sites, we promote the conservation of biodiversity on our property. At the Fujitsu Numazu Plant (Shizuoka prefecture), we create a favorable environment for diverse flora and fauna. These steady efforts have been recognized with the award for "Contributing to a Green Society" by the Organization for Landscape and Urban Green Infrastructure in April 2014.



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# In-House Environmental Educational and Enlightenment Activities

We carry out various forms of environmental education and enlightenment training based on the belief that, “to promote environmental management, it is essential to raise the environmental awareness of each and every employee and to take proactive measures.”

## Carrying Out Comprehensive Environmental Education

At the Fujitsu Group, every three years we have all of our employees undertake e-Learning to acquire a basic understanding of environmental management. In addition, education is provided to meet the needs of each level of employee from new entrants to managers, as well as those of departments including design development, sales and systems engineering. We are also implementing internal auditor, waste management and other training as professional education for employees in charge of work related to the environment.

### Fujitsu’s Environmental Education System

	New entrants	Ordinary employees	Middle managers	Senior executives
<b>General education</b>	Environmental e-Learning (every three years)			
	Level-specific training		Level-specific training (initial)	
<b>Professional education</b> <small>Note: Only relevant persons attend lectures</small>	Function-specific training (ad-hoc)			
	Internal auditor education			
	Waste management worker education			
<b>Enlightenment</b>	Lectures, seminars and training sessions			
	Environmental Contribution Awards and Photo Contest			
	Information provided through the Web and social networking services			

## Raising Awareness Through an In-House Award Scheme

To raise the environmental awareness of employees at all Fujitsu Group companies, we have operated an Environmental Contribution Awards scheme and conducted an Environmental Photo Contest, open to all employees, every year since 1995.

Numerous entries for the FY 2014 Environmental Contribution Awards were put forth along the three themes of “Environmental contribution to customers and society through our products, solutions, and services,” “Reducing the negative environmental impact of our business activities,” and “Social contribution activities.” Three submissions, including “A participatory system for sharing disaster information in Vietnam and Indonesia,” were awarded the Environmental Contribution Award.

For the Environmental Photo Contest, 470 entries were received from Fujitsu Group employees across the globe. This contest, through the solicitation of entries and voting for winners, encourages employees to think of environmental problems from a global perspective.

## Winners of the Environmental Grand Prize

- 1. A participatory system for sharing disaster information in Vietnam and Indonesia**  
Fujitsu offers a community participation-based system for the sharing of disaster information. This enables river administrators and residents to collect and share information using smartphones to deal with flooding, an issue in both Vietnam and Indonesia. (See Page 21.)
- 2. Reducing product disposal costs by applying component reworking technology**  
Fujitsu has achieved the replacement of defective components installed in high-density devices, a technologically difficult challenge, through the development of component replacement technology (i.e., component reworking technology) that uses new composite heating technology. We have established reworking technology for mobile phones and for multilayer PCBs. (See Page 42.)
- 3. Environmental and social contribution: Let’s enjoy the nature of Aso**  
Fujitsu is engaged in maintenance activities such as the planting of 15,000 broad-leaved trees and grass cutting, with the aim of improving Aso’s function in cultivating water sources and preserving its ecosystems. We have continued the activities for 12 years, with about 160 persons taking part every year.

### Environmental Photo Contest Top Prize Winner “Lifecycle”



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## Communication with Society

The Fujitsu Group works to communicate with our customers, employees, business partners, shareholders, investors, local and international communities, and all of our diverse stakeholders.

### Environmental Dialogues with Experts

In order to boost environmental management that reflects the changes and needs of society, the Fujitsu Group believes that it is important to have many occasions for dialogue with a wide range of stakeholders and to build relationships of assured trust.

The Fujitsu Group began environmental dialogues from FY 2011, holding a total of 20 gatherings as of the end of FY 2014. Over 40 experts have been invited in far ranging fields, including journalists and representatives of NPOs, universities, and corporations, to engage in dialogues on diverse themes centered on the environment. These dialogues allow us to understand the expectations and demands placed on Fujitsu, and lead to improvements and reinforcement of our environmental management.

### Discussing the Contribution of ICT to Community Creation

A lack of employment that drives young people to the cities, as well as decline in the birth rate, means communities have fewer children and face a shrinking and aging population. At the same time, urban areas experience the problems of air pollution and heat island effects caused by population concentration. Many of these issues are dependent upon regional characteristics such as population, industrial structure, and site location. In our fifth environmental dialogue, we exchanged ideas with experts and local

#### FY 2014 Themes

- 1<sup>st</sup> dialogue The possibilities of ICT in aiding food issues in developing countries
- 2<sup>nd</sup> dialogue The materiality of Fujitsu
- 3<sup>rd</sup> dialogue Interacting with the media
- 4<sup>th</sup> dialogue Effective reuse of, and contributions to, water resources
- 5<sup>th</sup> dialogue Social design
- 6<sup>th</sup> dialogue Responding to climate change (agricultural sector)

government representatives on the potential of ICT and its contribution in effecting regional revitalization.

The Fujitsu Group has developed the EvaCva evaluation tool, which we offer as open data. This tool assesses the characteristics of regions in the categories of environment, economy, and society, and comprehensively enables the visualization of values. From that topic, the environmental dialogue discussion widened to the assessment and optimal usage of local resources, and the creation of new value in regions.

This discussion generated a variety of opinions, including “Making regional resources visible and identifying issues allows the creation of fitting countermeasures,” “Releasing good information by itself does little if more people don’t make use of it; using information and making it known are separate issues,” and “We need to devise ways to make data visible and generate a response from people.” As we enhance the precision of the system using such opinions as reference, we have reaffirmed the importance of working to resolve social issues through the power of ICT.



The EvaCva website  
<http://evacva.net/>

### From Dialogues to the Field

An exchange of ideas on measures to deal with global warming, held during the environmental dialogue in FY 2013, resulted in a new collaboration.

Fujitsu sponsored and cooperated in planning the “World Wonder Museum: The Power of ICT to Visualize the Living World,” a summer vacation event produced by Shinichi Takemura, a participant in the dialogue and Professor at the Kyoto University of Art and Design. A workshop and talk event held from July to August 2014 in Otemachi, Tokyo attracted over 1,000 visitors.

Using the workshop to show children the reality of the global environment, the event provided a major opportunity to let people learn about initiatives and possibilities for resolving global environmental issues through ICT.



A scene from the workshop

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### Comments from One of the Facilitators

I commend Fujitsu for once again raising a number of themes and solidly advancing dialogues with society this year. These substantive, ongoing dialogues are not merely a show of activity, but are a valuable asset for both Fujitsu and society.

Such dialogues have directly revealed the gaze of society and what it deems important, and have been worked into the PDCA cycle to effect improvement. They have yielded positive results, with experts awarding high praise to Fujitsu's environmental management system and its performance.

Another merit of the dialogues has been the deepening of awareness and of the dialogues themselves, advancing from good ideas and easily taken initiatives, to things that are difficult to quickly address but are important.

In the dialogues so far, relationships with diverse experts have deepened and there have been several examples of concrete collaboration. I hope that the dialogues will take further steps for the resolution of societal issues together, and hope that the dialogues will also engage with residents and young people. I have high expectations for the further evolution and deepening of the dialogues.



**Junko Edahiro**  
President, Institute for Studies in Happiness, Economy and Society

### Tie-ups with External Organizations in order to Spread Green ICT and a Sustainable Society

By actively participating in external organizations inside and outside Japan, the Fujitsu Group is endeavoring to promote and spread green ICT solutions for realizing a sustainable society.

#### Major Participating Organizations

<b>World Business Council for Sustainable Development (WBCSD):</b> reviewing assessment indices in traffic and transportation fields, and promoting concrete solutions in various categories
<b>Global e-Sustainability Initiative (GeSI) :</b> contributing to SMARTer2030, a report comprehensively analyzing the potential of ICT to bring about sustainability
<b>The ITU-T's ICT and Climate Change Group (SG5 WP3):</b> spreading and expanding green ICT
<b>ISO TC286 SC1 (Smart Urban Infrastructure Metrics):</b> building infrastructure assessment methods and promoting efforts to clarify the role of ICT in smart communities
<b>The Steering Committee for the ICT Sector Guidance to the GHG Protocol Product Life Cycle Accounting and Reporting Standard:</b> assessing ICT life cycle environmental effects
<b>Global Taskforce on Harmonizing Global Metrics for Data Center Energy Efficiency:</b> promoting environmental consciousness of datacenters
<b>Uptime Institute Network:</b> taking part in surveys and meetings for improving data center performance and efficiency
<b>JEITA Green IT Committee:</b> contributing to the establishment of a method for evaluating the contributions of products and services

### TOPICS Contributing as a Gold Sponsor to the Publication of GeSI's SMARTer2030 Report

In June 2015, the Global e-Sustainability Initiative (GeSI) issued "SMARTer2030 Report: ICT Solutions for 21st Century Challenges." The report contained many actual case studies of the potential for ICT in contributing to sustainability, including estimates of an economic effect of 11 trillion USD and a 20% reduction in greenhouse gas emissions worldwide by 2030. It also introduces examples of Fujitsu's solutions in the areas of energy, agriculture, and manufacturing.

Fujitsu is proud to have contributed to the Report as a Gold Sponsor, and will continue to play our full part in providing and promoting the solutions described in the report to ensure that potential is realized.



An event in Bonn, Germany, attended by Fujitsu employees (center), to announce publication of the report

### Communication through Exhibitions and Events

The Fujitsu Group provides information on our initiatives toward solving global environmental issues by using exhibitions and events inside and outside Japan as a means for communicating with customers and residents of regional communities.

#### Main Exhibitions and Events Attended in FY 2014

- ITU Green Standard Week/Beijing, China/September 2014
- Eco-Products 2014/Tokyo, Japan/December 2014
- Kawasaki International Eco-Tech Fair/Kanagawa, Japan/February 2015



The Fujitsu Group booth at Eco-Products 2014