

Protecting the Global Environment

Amidst the demand for full-fledged prevention measures against global warming, the Fujitsu Group is engaging in environmental management using the two focal points of contributing through our business activities to solving the environmental challenges of customers and society, and

thoroughly reducing our own environmental impacts.

Along with furthering the deployment of ICT society-wide, and increasing contributions to the environment, the Fujitsu Group is working to create green innovation through ICT while building greater dialogue with customers and stakeholders.

See the **Fujitsu Group Environmental Report 2014** for further details of our environmental activities:
<http://www.fujitsu.com/global/about/environment/>

CSR Activity Targets and Achievements

Level of Performance: ★★★ Achieved plan targets

★★ Not all plan targets were achieved and some issues remain to be addressed

★ Plan targets have not been achieved

	FY 2013 Targets	FY 2013 Performance	FY 2014 Targets
Benefitting Customers and Society	<ul style="list-style-type: none"> Through the provision of ICT, reduce cumulative greenhouse gas emissions from customers and society by 26 million tons through FY 2015. Through FY 2015, provide funding, technology, and human resource support for activities addressing the resolution of social and environmental issues such as biodiversity. 	<ul style="list-style-type: none"> Reduced emissions by 10.87 million tons (Japan: 6.68 million tons; overseas: 4.19 million tons). Provided funding, technology, and human resource support. (see p. 24 of the Environmental Report for specifics). 	<ul style="list-style-type: none"> Through the provision of ICT, reduce cumulative greenhouse gas emissions from customers and society by 16.99 million tons from FY 2013. Through FY 2015, provide funding, technology, and human resource support for activities addressing the resolution of social and environmental issues such as biodiversity.
Pursuing Internal Reforms	<ul style="list-style-type: none"> Reduce greenhouse gas emissions from workplaces to 20% below FY 1990 levels by the end of FY 2015. Reduce CO₂ emissions from transport per unit of sales by 4% or more compared to FY 2011 levels. Expand renewable energy purchase from external sources and generation capacity. 	<ul style="list-style-type: none"> Reduced by 29.4% compared to FY 1990. Reduced by 32% compared to FY 2011. Installed 210 kW of new solar power generation facilities. Purchased approx. 23,000 kWh of green power. 	<ul style="list-style-type: none"> Reduce greenhouse gas emissions from workplaces to 20% below FY 1990 levels by the end of FY 2015. Reduce CO₂ emissions per sales from transport over 1% (on average) compared to FY 2013. Expand renewable energy purchase from external sources and expand generation capacity.

* The page to the right shows all of the categories of the Fujitsu Group Environmental Action Plan (Stage VII).

TOPICS

[Benefitting Customers and Society]

Reducing CO₂ Emissions by 43.1% through Adoption of Tablets by Life Insurance Company Sales Staff

In December 2013, Fujitsu provided a tablet-based solution as the core of the insurance policy management system used by life insurance company sales staff. In addition to enabling significant reduction in paper usage on the order of tens of millions of sheets, the solution has had a marked effect in reducing personnel movement (including business travel expenses and transportation expenses) and office space (including the use of energy for lighting, air conditioning, etc.). This effect has resulted in a 43.1% reduction in CO₂ emissions (according to Fujitsu estimates).



Tablet usage image

TOPICS

[Pursuing Internal Reforms]

Open New Facilities at the Akashi System Center, Making It an Environmentally Consious Datacenter Using Outside Air

For the first time, Fujitsu is using outside air for the primary air-conditioning in the two newly opened modular datacenters at its Akashi System Center. Outside air is used for cooling during winter, intermediate seasons, and as much as possible in summer, while electric cooling is only used to supplement the outside air, maximizing air-conditioning efficiency. In addition, we have developed and adopted new cooling technology (patent pending) that combines packaged air-conditioners (PAC) for general use computing rooms as supplemental cooling equipment in summer to make cooling with external air possible throughout the year, even in warm climates.

This technology can be easily deployed regardless of the datacenter's scale or building's specification. In the new facilities of the Akashi System Center, our design goal is a PUE value of less than 1.2 at times of full operation.



External view of the Akashi System Center



New facility (seismic isolation DC)

Making Steady Progress toward Achieving Targets by the end of FY 2015

We are moving forward with the Fujitsu Group Environmental Action Plan (Stage VII), aiming to increase our contribution to customers and society through our business activities, and striving to address global environmental challenges along our entire value chain.

By providing ICT solutions in FY 2013, we contributed to reducing customer and society-wide GHG emissions by 10.87 million tons and reduced GHG emissions at our business sites by 66,000 tons year-on-year. We are making steady progress toward achieving our targets by the end of FY 2015. Furthermore, as newly targeted in Stage VII of our Action Plan, we have achieved 21.3% resource efficiency for ICT products, primarily by making our

smartphones, PCs, and servers lighter and more compact. In other areas, we are supporting employees' contributions to society, with employees actively participating in countries throughout the world, including teaching at an elementary school in the Philippines and working on forest revitalization activities in Iwate Prefecture.

In FY 2014, we will expand our initiatives, including increasing the effects of GHG emission reductions by providing customers with business solutions, improving the performance of our major datacenters, and investing in facilities and improving operations at our business sites.



Minoru Takeno

VP, Head of Corporate Environmental Strategy Unit

Fujitsu Group Environmental Action Plan (Stage VII) (FY 2013–2015)

Achievement criteria: ✓ FY 2013 target achieved
— FY 2013 target not achieved

	Target items (targets through the end of FY 2015)	FY 2013 Results	FY 2014 Plans/Targets	
Our Society	Contribution to Society by ICT: Reduce Greenhouse Gas Emissions Reduce greenhouse gas emissions for our customer and society over 26 million tons.*1	10.87 million tons (Japan: 6.68 mill. tons; overseas: 4.19 mill. tons).	✓	16.99 million tons cumulative from FY 2013
	Contribution to Society by ICT: Increase Solutions Increase the deployment of sustainability solutions.	Prepared action frameworks. Set a definition and criteria, and identified solutions.	✓	Continue achieving target in left column.
	Design and Deliver Eco-efficient Products: Energy Efficiency Achieve top-level energy efficiency *2 of more than 50% of the newly developed products.	39.0%	—	45% or more
	Design and Deliver Eco-efficient Products: Resource Efficiency Increase resource efficiency of newly developed products by 20% compared to 2011.	Increased by 21.3%	✓	Increase by 15% or more.
	Leading Edge R&D Develop innovative technologies that enable solutions and products to reduce the environmental load.	Announced 18 key green technologies.	✓	Continue achieving target in left column.
	Corporate Citizenship: Social Challenges Support initiatives that address the complex social and environmental challenges, e.g. biodiversity conservation.	Provided funding, technology, and human resource support.	✓	Continue achieving target in left column.
	Corporate Citizenship: Social Activities With society, support our employees to volunteer social activities.	Dedicated 129,000 hours to social contribution activities by employees.	✓	Continue achieving target in left column.
Our Business	Efficient Business Operations: Reduce Greenhouse Gas Emissions Reduce greenhouse gas emissions in our business facilities by 20% compared to 1990.	Reduced by 29.4%	✓	Continue achieving target in left column.
	Efficient Business Operations: Energy Intensity Improve energy intensity in our business facilities over 1% each year.	1.6%	✓	Continue achieving target in left column.
	Efficient Business Operations: Data Centers Improve environmental performance of our major data centers.	<ul style="list-style-type: none"> * Established the Green Datacenter Committee. * Set internal targets. 	✓	Continue achieving target in left column.
	Efficient Supply Chain: Logistics Reduce CO ₂ emissions *3 per sales from logistics over 4% compared to 2011. *4	Reduced by 32%	✓	Reduce CO ₂ emissions per transport over 1% (on average) compared to FY 2013.
	Efficient Supply Chain: Procurement Expand activities of reducing CO ₂ emissions to all types of suppliers.	Reached 95.9% of business partners implementing CO ₂ reduction/limitation measures.	✓	100%
	Efficient Use of Resources: Renewable Energy Increase generation capacity and procurement of renewable energy.	<ul style="list-style-type: none"> * Installed 210 kW of new solar power generation facilities. * Purchased approx. 23,000 kWh of green power. 	✓	Continue achieving target in left column.
	Efficient Use of Resources: Water Continue efforts for efficient use of water, e.g. water recycling and water saving.	Water usage: 18,620,000 m ³ (reduced by 6.3% compared to FY 2012).	✓	Continue achieving target in left column.
Continuous targets*4	Reduced Environmental Impact: Chemicals Reduce chemical emissions to less than the average level of 2009–2011 (PRTR: 21t, VOC: 258t).	PRTR: 21 tons, VOC: 246 tons.	✓	Continue achieving target in left column.
	Reduced Environmental Impact: Waste <ul style="list-style-type: none"> * 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. 	<ul style="list-style-type: none"> * Waste generated: 23,522 tons * Achieved zero emissions at domestic business sites. 	✓	Continue achieving target in left column.
	Reduced Environmental Impact: Recycling Maintain over 90% resource reuse rate of business ICT equipment at Fujitsu recycling centers.	92.7%	✓	Continue achieving target in left column.

*1 26million tons: Calculate the numeric target by multiplying annual sales of each solution category by a conversion factor of CO₂e 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 CO₂ emissions: Calculate emissions of CO₂ equivalence from energy consumption. *4 Continuous targets: Targets to be achieved through business activity because already achieved high level performance.