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# GHG Emission Reduction through the Provision of ICT

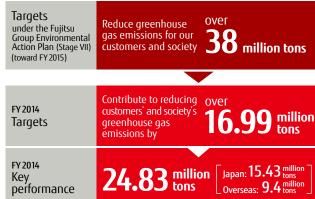
#### Our Approach

Through the provision of ICT, the Fujitsu Group is working to create innovations in wide-ranging areas of society, including improvement of efficiency in energy usage, greater efficiency in production activities, and reduction in the movements of people and goods. By doing so, we aim to contribute to the reduction of GHG emissions. We believe that the use of ICT by large numbers of customers will reduce GHGs in society overall, while leading to ongoing business growth for the Fujitsu Group as well.

The Fujitsu Group is working to quantitatively visualize and also expand—the contribution to GHG reductions from the ICT used by our customers. Between FY 2009 and FY 2012, this ICT usage has contributed to a cumulative reduction of 12.23 million tons of CO<sub>2</sub> emissions. From FY 2013, we will extend the scope of our targets overseas, and aim to contribute to a global cumulative reduction in emissions of 38 million\* tons or more over the three years through FY 2015.

\*Revised upward from 26 million tons.

# **Summary of FY 2014 Achievements**

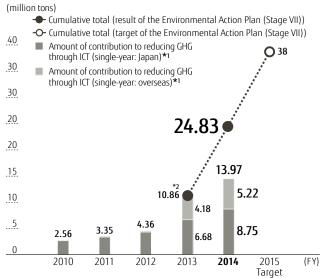


#### Performance and Results for FY 2014

## **Expanding Environmentally Conscious Solutions**

To advance the quantitative visualization of GHG reduction effects through ICT, we recognize solutions with an expected reduction effect of 15% or more as "environmentally conscious solutions." In FY 2014 we moved ahead with recognizing these cases, centered on solutions that we provide to large numbers of customers. Moreover, we leveraged opportunities to propose environmental contribution effects to customers and worked to convey the environmental value of our solutions.

#### Amount of Contribution to Reducing Emissions of Greenhouse Gases (GHG) through the Provision of ICT



- \*1 Values for FY 2010 to FY 2012 represent performance under the Environmental Action Plan (Stage VI). From FY 2013, we are expanding the scope globally.
- \*2 FY2013 results were revised accompanying reassessment of categories for compiling data from overseas.

### Recognizing 51 New Cases that Contribute to 24.83 million tons of GHG Reduction

The Fujitsu Group recognized 51 new cases of environmentally conscious solutions in Japan, bringing the cumulative total to 400. These new cases include the Fujitsu Enterprise Application GLOVIA ENTERPRISE MM, a maintenance solution to support the transformation of maintenance practices for manufacturers, and a cloud-based digital medical record system called Fujitsu Healthcare Solutions HOPE Cloud Chart.

The result has been a reduction effect of 24.83 million tons of GHG worldwide, meeting our target.

#### FY 2015 Targets and Plans

# **Setting Priority Solutions and Advancing** Recognition

We revised our target of a 26-million-tons cumulative amount of contribution to GHG reduction from FY 2013-2015 to a 38-million-ton target. Toward achieving this target, we are placing priority on solutions which we provide to large numbers of customers and solutions for which we foresee expanded use by customers, such as cloud computing and mobile, as we engage in recognition of environmentally conscious solutions.

#### Examples of Priority Solutions (FY 2014)

- 1. Next-generation integrated Web CMS "Sitecore CMS"
- 2. FENICS II business Wi-Fi service
- 3. Manufacturing-targeted production management ERP "GLOVIA G2"
- 4. On-site Inspection Meister
- 5. AZCLOUD SaaS FoodCORE
- 6. Resident information system "MICJET Tax Information"

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### GHG Emission Reduction through the Provision of ICT

#### Main Activities in FY 2014

# **Encouraging Environmental Performance to** be Part of New Proposal Materials

Fujitsu is promoting new ideas inside and outside Japan to help convey to customers our favorable environmental performance. This includes, for example, the contribution of our solutions to CO<sub>2</sub> reduction. At Fujitsu Systems East Limited, we have started an initiative to evaluate the size of contributions to CO<sub>2</sub> reduction when commercializing package software in order to incorporate the proposal of these ideas into our business process. In addition, at Fujitsu Social Science Laboratory Limited (Fujitsu SSL), we are using an internal awards program and best practices presentations in order to facilitate the awareness of employees, while also creating pamphlets, etc. for customers.

In Europe, we are utilizing EcoCALC, web-based tools for calculating environmental contributions, and we are

communicating to customers the environmental performance of our solutions. In FY 2014, we evaluated and proposed ideas that included business talks in Finland for government-targeted work systems, and business talks in Spain for server virtualization projects at major automobile manufacturers.



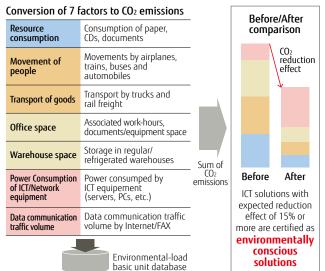
Pamphlet introducing Fujitsu SSL's **Environmental Contribution Solutions** 

#### Calculation Method for Amount of GHG Information Reduction Effect

At the Fujitsu Group, we have assessed the quantitative reduction in environmental burdens (in terms of reduced CO<sub>2</sub> emissions) from ICT adoption using an environmental impact assessment method developed in 2004 by Fujitsu Laboratories Ltd. We have assessed the CO<sub>2</sub> emission-lowering impacts in 400 prior cases and have calculated the CO<sub>2</sub> reduction effect per unit of sales from the accumulated data.

In calculating the amount of contribution to GHG reduction, we calculate the annual amount of reduction effect from the CO<sub>2</sub> reduction effect per unit of sales and from the annual sales of each solution category.

#### Overview of Environmental Impact Assessment Methodology



# **Comment from Third-Party Verification Body**

In continuation with last year, we reviewed, from a third party perspective, the FY 2014 data on the amount of contribution to GHG emission reduction through the provision of ICT.

Last year, we gave a high



evaluation to the facts that all of the basic data used for calculations had systematically undergone checks by the internal Environmentally Conscious Solutions Review Meeting and that the documents used in calculations had been properly prepared. We confirmed in this review that these practices were functioning effectively. In addition, more detailed calculation methods were put forward in newly added provisions, increasing further transparency in the calculation process and in its foundation.

At the same time, we believe that the calculation method itself holds room for improvement because it uses GHG reduction effects per unit of sales (GHG reduction intensities), applying conventional category classifications. However, constructive initiatives are being made to conduct a study to confirm the appropriateness of the current calculation method and to disclose the results, which, we hope, will lead to more future improvements.

#### Masatoshi Sakaguchi

System Certification Division, Bureau Veritas Japan