

## Fujitsu Integrated Microtechnology Limited Environmental Report

# 2011



## 1. Welcome



Fujitsu Integrated Microtechnology  
Limited

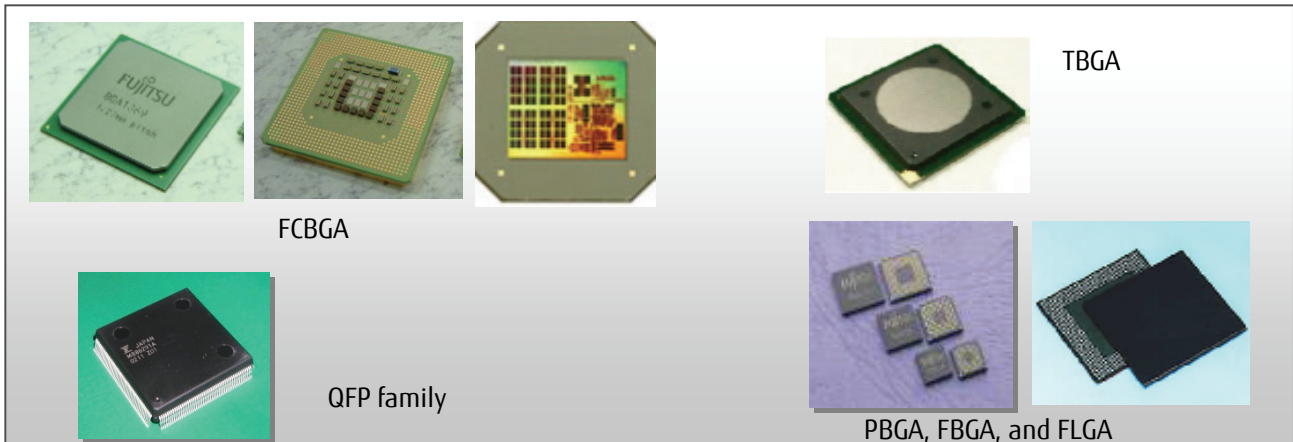
President Hideo Monma

Fujitsu Integrated Microtechnology enjoys superb site environments amid rich nature at Aizuwakamatsu, Fukushima prefecture, Murata-machi, Shibata-gun, Miyagi prefecture, and Satsumasendai, Kagoshima prefecture. All these locations are in rural farming country, close to national parks.

We aim to pass these bountiful natural environments on to future generations, and that is why we want to participate in a wide range of biodiversity conservation activities in each of these areas, carrying on from last year, and to contribute to local environmental conservation.

We are also linking together ongoing improvements in working processes, Green Process Activities to reduce environmental loads, Toyota Production System, cost-reduction activities and other linked efforts. Our aim is to save energy and resources in our production activities as a whole, and to reduce environmental loads.

## 2. Company Profile



Fujitsu Integrated Microtechnology Limited was established as a specialized company for semiconductor post-processing in October 2003, through the integration and restructure of four semiconductor post-processing subsidiaries of the Fujitsu Group into a single company with four plants. Our business focuses on the assembly and testing of logic LSIs, and we are actively developing contract-based business with clients outside the Fujitsu Group. In October 2008, we integrated the basic logic production line located in the Gifu Plant into the Kyushu Plant and established a new structure with three domestic plants.

Name: FUJITSU INTEGRATED MICROTECHNOLOGY LIMITED

Established: October 1st, 2003

Number of employees: 1,963(as of April 2011)

Business: Development, production, and sales of electronic devices

- **Aizu Headquarters/Plant:** 1 Takaku-kogyodanchi, Aizuwakamatsu, Fukushima
- **Miyagi Plant:** 1-1 Nishigaoka, Murata, Murata-machi, Shibata-gun, Miyagi
- **Kyushu Plant:** 5950 Iriki-cho Soeda, Satsumasendai, Kagoshima

### 3. Aim and Achievement in Environmental Activities

#### ■ Report on objectives and results of activities in the year 2010

Fujitsu Integrated Microtechnology has been working on the following activities with the aims of preserving the environment, cooperation with the local communities, and environmental improvements in the overall and medium-term perspectives based on our environmental policies and due to significant environmental aspects. The objectives and their results of activities in the year 2010 are listed below.

We worked on reducing the amount of CO<sub>2</sub> emission through energy consumption, of produced wastes, and of emitted chemical substances, and we achieved our objectives in all the set items.

Objectives in the Year 2010	Results	Achievement Status
Suppress CO <sub>2</sub> emission through energy consumption to 55,770 ton-CO <sub>2</sub> or less by the end of the year 2010.	53,489 ton-CO <sub>2</sub>	○
Suppress waste emission to 795 ton or less by the end of the year 2010.	753 ton	○
Suppress emission of priority chemical substances (IPA, ethanol) to 5.35 ton or less by the end of the year 2010.	2.95 ton	○
Green procurement activities: [1] Suppression/reduction of CO <sub>2</sub> emission, [2] Promotion of procurement from materials suppliers which implement biodiversity conservation work.(Procurement rate at least 60%)	75%	○
Reduction of environmental load through improved work processes (ratio of successful departments in each region 80% or higher)	(Each region) 80% or higher	○
Biodiversity conservation activities, environmental awareness-raising activities, and environmental and social contribution activities (Implementation of 5 activities or more per year in each region *Including at least one activity related to biodiversity conservation)	(Each region)5 activities or more	○

#### ■ Objectives of activities in the year 2011

We aim to plan and execute objective goals in line with the Sixth Fujitsu Group Environment Action Plan.

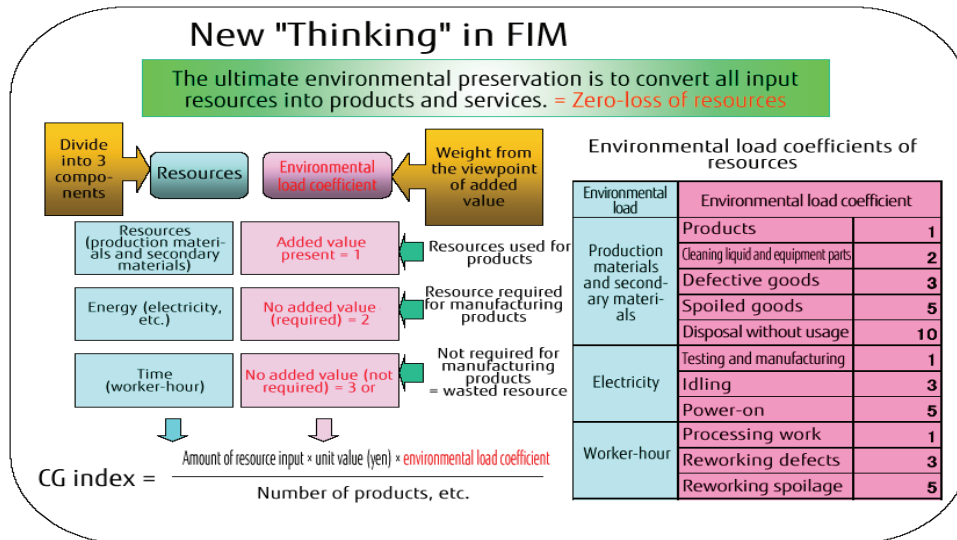
Objectives in the Year 2011
Suppress CO <sub>2</sub> emission from energy consumption to 56,595 ton-CO <sub>2</sub> or less by the end of the year 2011.
Suppress waste emission to 793 ton or less by the end of the year 2011.
Suppress emission of priority chemical substances (IPA, ethanol) to 4.085 ton or less by the end of the year 2011.
Green procurement activities: [1] Suppression/reduction of CO <sub>2</sub> emission, [2] Promotion of procurement from materials suppliers which implement biodiversity conservation work.(Procurement rate at least 80%)
Reduction of environmental load through improved work processes (ratio of successful departments in each region at least 85%)
Implement at least one biodiversity conservation activity and at least five environmental awareness-raising and environmental and social contribution activities per year, in each region.



## 4. Green Factories

### Green Process Activities

The green process activities are linked with the activities for improving productivity and aim to continually improve business processes and to reduce the environmental loads in each division. Since the year 2008, Fujitsu Integrated Microtechnology has been conducting activities to reduce environment loads with the participations of all the divisions including indirectly-related divisions by reviewing mechanisms that are appropriate for post processing.



### Examples of main improvements in the year 2010

In the year 2010, we implemented improvements such as the following in each factory, to reduce energy consumption and waste emission.

Improvement Example 1-  
Changing into waste plastics into valued products (Miyagi Plant)



We are working to finely sort waste plastics that were previously processed as industrial waste, to make them into valued products. That effort reduced industrial waste emission by approximately 2 ton per month.

Improvement example 2- Energy-saving modification to heatless dryers (Aizu Plant)



We revised our system for the regeneration switching of absorbent material in air dryers (extending the time), helping to achieve a saving of 49,000 kWh of electrical power per month (CO<sub>2</sub> emission: 20 ton-CO<sub>2</sub>).

Improvement example 3- Switch to internal processing of alkaline waste water from plating processes (Kyushu Plant)



Switching to internal treatment of alkaline water from plating processes, which was previously discharged as industrial waste, helped to reduce industrial waste production by approximately 7 ton per month.

### Impact of the Great East Japan Earthquake

In the Great East Japan Earthquake on March 11, our Miyagi and Aizu plants suffered a stronger earthquake than any they had experienced before.

Nevertheless, the plant buildings and equipment did not suffer any major damage, and there were no environmental accidents or disasters. Our local disaster countermeasures headquarters pursued diligent restoration work, within our liaison and support organization with headquarters and the entire Fujitsu Semiconductor Group. As a result, we returned to normal operations in mid-April.

We will continue our dependable earthquake countermeasures, maintain safe operations and strive to prevent risks of all kinds.

## 5. Environmental Social Contribution Activity

We ran our annual cleanup in the areas around our plants, as well as voluntary activities such as cleaning local rivers.



Participation on the "Libellula Angelina Dragonfly Watching Event" and "Imuta Pond Clean Campaign" (Kyushu Plant)



Participation in River Clean Day (Aganogawa river basin) (Aizu Plant)



Voluntary factory neighborhood cleaning (Miyagi Plant)

## 6. Environmental Awareness Activities for Employees

We ran environmental awareness activities for our employees, including environmental seminars, site visits to environmental facilities inside and outside the company, and distribution of compost made from leftovers from the employees' canteen. These events were mainly concentrated in Environment Month.



Distribution of residue fertilizer to employees (Miyagi/Kyushu Plants)



Biodiversity Conservation Seminar "Aizu Wildlife" (Aizu Plant)



Industrial waste treatment facility site visit (Kyushu Plant)

## 7. Efforts for Safe and Secure Plants

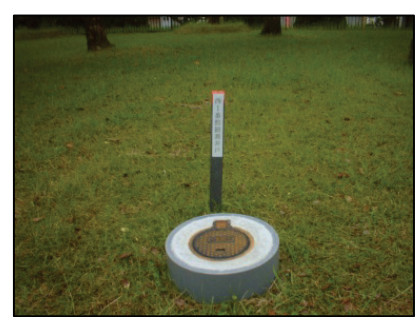
We perform periodic risk inspections at each plant to identify environmental risks, pool knowledge of risks, extend countermeasures laterally, and work for risk prevention. In each factory and department, we perform annual emergency response drills, simulating leaks of chemicals and heavy oil used in the plants, waste fluids, and other such substances.



Emergency response drill for heavy oil leakage (Miyagi Plant)



Safety inspection by the Fujitsu Semiconductor Group Facilities Planning Division (Aizu Plant)



Installation of onsite observation wells for water quality monitoring (Kyushu Plant)

## 8. Compliance with Environment-Related Rules and Regulations

In the year 2010, each factory again strictly observed all regulations, and no infringements etc. occurred.

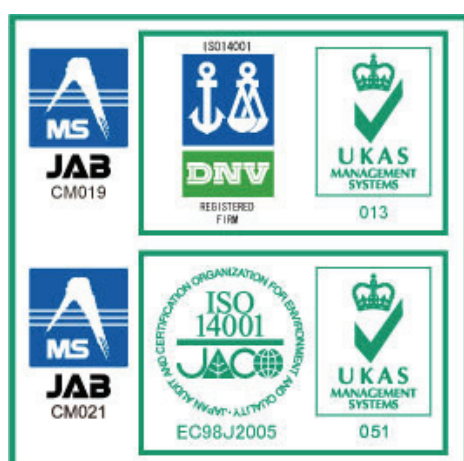
## 9. Environmental Accounting

We have "Environmental Accounting" to quantitatively understand the costs and outcomes related to environmental protections and to evaluate the environmental investment and its outcomes.

2010 Environmental accounting results table (unit: million yen)

Item	Scope	Cost	Outcome
Costs and outcomes within the operation area	Preventing pollutions, preserving the global environment, recycling resources, etc.	344	482
Costs and outcomes in upstream and downstream processes	Waste product recycling, green procurement, etc.	0	15
Management activity costs and outcomes	ISO14001, environmental education, environmental public relations, etc.	50	5
Research and development and solutions business costs and outcomes	Research of environmentally friendly technology for products, etc.	0	0
Social activity costs and outcomes	Donation to and support of environmental preservation groups, etc.	0	0
Handling environmental damage costs and outcomes	Restoration from soil and groundwater contamination, etc.	0	0
<b>Total</b>		<b>394</b>	<b>502</b>

## 10. Environmental Management Systems



Fujitsu Integrated Microtechnology has established the integrated environmental management system integrating each plant and acquired the international standard ISO14001 certification from Japan Audit and Certification Organization (JACO) in September 2004. In order to promote more effective and highly practical environmental activities, the Fujitsu Group worked on the group certification and acquired ISO14001 certification as the "Fujitsu Group World-Wide" in March 2006.

We continue to promote environmental preservation activities through our daily corporate actions and to strive for cooperations with our local communities and for the environmental improvements.

# FUJITSU INTEGRATED MICROTECHNOLOGY LIMITED

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