

FUJITSU SEMICONDUCTOR LIMITED
Aizuwakamatsu Plant
Environmental Report
2010



1. Welcome



Aizuwakamatsu Plant
Plant Manager: Hitoshi Hori

This plant is an environmentally leading-edge business office that obtained ISO14001 certification first in Aizuwakamatsu in February 1997. Since then, we have been continuously improving our environmental management systems. With all of our employees as one, we have been working on activities to reduce our load on the environment such as preventing global warming, reducing the amount of wastes, and reducing the emissions of chemical substances.

In the fiscal year 2008, we worked on activities to prevent global warming with the assistance of the independent administrative institution NEDO (New Energy and Industrial Technology Development Organization) and made significant progress on reducing greenhouse gases other than CO₂.

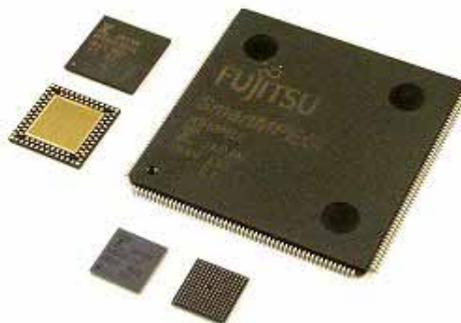
We also actively extend our activities to the environmental social contributions such as cleaning up the area around the plant and its local area. We currently have approximately 2700 lavenders that we planted in the areas surrounding the plant, and during the flowering season, we invite the local people to pick those lavenders for drying and making potpourri.

In October 2009, we were awarded for the Aizuwakamatsu City Environmental Award (Business Department) in recognition of our consecutive efforts in environmental activities.

This plant continues to aim for environmental management working together with its local region while recognizing the importance of the environmental activities as a member of the local community.

I would be most pleased if this environmental report could serve to inform everyone of the efforts that this plant is making for the environment.

2. Introduction to Aizuwakamatsu Plant



As a semiconductor front-end process plant, the Aizuwakamatsu plant has taken on manufacturing mainly CMOS logic and analog devices for digital Audio/Video, game machines, digital home appliances, automotive products, and mobile phones. This plant has been meeting customers' design specifications and demands for multiproduction with flexible quantities, along with the increase of COT business in recent years.

Name: FUJITSU SEMICONDUCTOR LIMITED, Aizuwakamatsu Plant
Established: October 1984
Number of employees: 650 (including affiliated companies)
Business: Semiconductor manufacturing (logic LSIs, etc.)

3. Aim and Achievement in Environmental Activities

■ Report on objectives and results of activities in the year 2009

The environmental objectives and their results in the year 2009 are listed below. We achieved our objectives in all the set items.

Although this plant underwent structural reform in the year 2009, we continued to work toward reducing environmental loads and achieved to prevent global warming and reduce wastes.

Objectives in the year 2009	Results	Achievement Status
Reduce CO ₂ emission through energy consumption to the level of the year 2007 result or less.	Reduced by 8.3% through the promotion of energy saving activities.	Success
Reduce the emissions of greenhouse gases other than CO ₂ (PFC) by 30.9% or more compared to the result in the year 1995.	Reduced by 35% through the installation of scrubber.	Success
Reduce the emissions of volatile organic chemicals (VOS) by 21.0% or more compared to the result in the year 2000.	Reduced by 45.5% through the operations such as replacing activated charcoal in organic gas recovery equipment.	Success
Reduce the amount of wastes by 23.6% or more compared to the result in the year 2005.	Reduced by 50% through the promotion of changing wastes into valued products.	Success
Carry out 4 or more activities of environmental social contribution per year.	Carried out 4 activities such as cleanup.	Success

■ Objectives of activities in the year 2010

The 6th Fujitsu Group Environment Action Plan has started from the year 2010. In addition to the existing activities such as prevention of global warming (CO₂/PFC reduction) and reduction of wastes, we are working on a new activity to promote biodiversity preservation.

Objectives in the Year 2010
Reduce the CO ₂ emission through energy consumption by 29.5% compared to the result in the year 2007.
Reduce the emission of greenhouse gases other than CO ₂ (PFC) to +14.5% or less compared to the result in the year 1995.
Reduce the emission of priority chemical substance (IPA) by 41.0% compared to the result in the year 2007.
Reduce the amount of wastes by 55.6% compared to the result in the year 2007.
Carry out 3 activities of environmental social contribution and 4 activities of biodiversity preservation.

4. Green Factories

■ Green process activities

In the Aizuwakamatsu Plant, we have been developing green process activities for reducing the chemical substances and gases used in the manufacturing process since the fiscal year of 2003, and we have greatly succeeded in reducing the usage of chemicals and gases per source unit.

■ Zero emissions of wastes (measure for wastes reduction)

In the year 2009, we were able to reduce the wastes by 504 ton from the previous fiscal year due to the low production from the deteriorating economic conditions and due to the achievement of changing wastes into valued products. Therefore, we were able to achieve (-50%) the 5th Environment Action Plan objective (5% reduction by the end of the fiscal year 2009 compared to the result in the year 2005).

Note: Although this plant underwent the structural reform in the year 2009, we continued to work on reducing the environmental load and achieved in the global warming prevention and wastes reduction.

Main measures for reducing wastes: Changing disposed lead batteries and organic alkalines into valued products.

5. Environmental Social Contribution Activity

For years, this plant has been not only cleaning up in the area around the plant but also participating in cleanup activities across the entire local area. In the year 2009, we were awarded for the Aizu Wakamatsu City Environmental Award in recognition of our efforts actively working for the environment. In addition, we have been enhancing our connection with the local area by making an appeal of our efforts for the environment through the exhibition at the environmental festival held by the city.



Cleanup activities around the plant



Awarded for the Aizu Wakamatsu City Environmental Award



Presentation at the Aizuwakamatsu City Environment Festival

6. Environmental Awareness Activities for Employees

We hold various events in this plant aiming to raise environmental awareness among our employees. In the year 2009, we invited a lecturer from Aizuwakamatsu city to hold a seminar on "New Energy." Since the topic was the immediate issue, the city's efforts toward new energy, energetic questions and answers were exchanged. It indicates the increased awareness of the environment.



Environmental seminar



Class for making lavender potpourri



Finished potpourri

7. Efforts for Safe and Secure Plants

■ Measures to counter risks

As measures to prevent environmental risks, we have worked on creating an auxiliary tank for and reinforcing the interior of the effluent receiving tank and on updating our facility management. In addition, we have observation wells in various locations at our site to monitor the quality of the ground water periodically.

■ Measures for inspecting soil and groundwater

We have observation and monitoring wells near the boundaries of our site and near the underground water receiving tank, and these are periodically monitored to ensure there is no contamination of the groundwater and soil.

8. Compliance with Environment-Related Rules and Regulations

■ Compliance with laws

We periodically check for changes in laws and regulations and confirm our compliance status. Although there was one instance of a law violation regarding the Industrial Safety and Health Act (Ordinance on Prevention of Hazards due to Specified Chemical Substances) in the year 2009, there were no violations related to environmental rules and regulations.

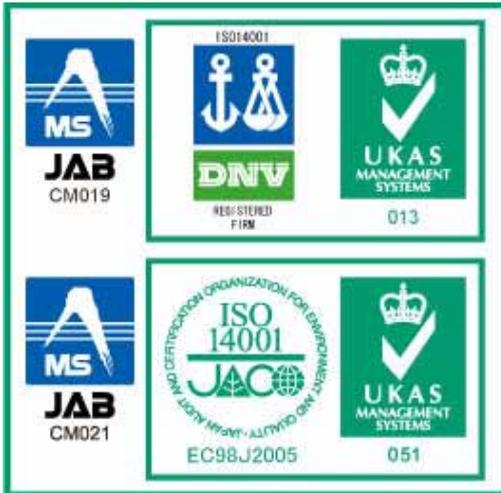
9. Environmental Accounting

The environmental accounting results for the fiscal year 2009 provided 527 million yen outcomes out of 460 million yen expenses. A major beneficial amount was the outcome of reducing the cost of maintaining the boilers, scrubbers, GASTAKs.

2009 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.	425	520
Costs and outcomes in upstream and downstream processes	Waste product recycling, green procurement, etc.	0	0
Management activity costs and outcomes	ISO14001, environmental education, environmental public relations, etc.	35	7
Research and development and solution 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	-
Handling environmental damage costs and outcomes	Restoration from soil and groundwater contamination, etc.	0	0
Total		460	527

10. Environmental Management Systems



■ Integrated certification

The Fujitsu Group expanded the scope of the ISO14001 integrated certification obtained in March 2006 covering Fujitsu and its domestic consolidated subsidiaries into the global integration including overseas consolidated subsidiaries.

Date Fujitsu Group World-Wide
integrated certification obtained: 23rd March 2006

Certificate number: EC98J2005

Aizuwakamatsu Plant was evaluated as being compliant with ISO14001: 2004 based on the results of an update check by the Japan Audit and Certification Organization (JACO) in November 2009.

■ Internal environment auditing

Aizuwakamatsu Plant conducts internal audits every year to get an overall understanding of the status of environmental load and preservation and to evaluate the state of compliance with ISO.

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