

Top Message	Interview to Head of Corporate Environmental Strategy Unit	Special Feature: The Power of ICT	Fujitsu Group Environmental Action Plan Stage VII	Chapter I Contribution to Society	Chapter II Reducing Our Environmental Burden	Environmental Management	Data Overview
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Reducing Greenhouse Gases (GHG) Emissions and Boosting Energy Intensity at Our Business Sites	Promoting Environmentally Conscious Datacenters	Reduce CO ₂ Emissions from Logistics and Transportation	Promoting CO ₂ Emission Reductions with Our Business Partners	Increasing Amounts of Renewable Energy Used	Efficient Use of Water Resources	Reducing Chemical Substances Emissions	Limiting Amounts of Waste Generated	Product Recycling
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Efficient Use of Water Resources

Our Approach

Global water shortage risks are increasing along with climate change, destruction of forests, and economic and population growth in emerging and developing countries. For companies, as well, water shortages bear risks toward business continuity. Reducing water usage and recycling water are critical issues.

Since the Fujitsu Group uses especially large amounts of water in our semiconductor and printed circuit board manufacturing, we believe it is particularly necessary to reduce our water consumption in these areas. In addition to general water saving, to date we have been continuously striving to recirculate and reuse water by recycling pure water and reusing rainwater. From FY 2013, we established efficient water usage as a new goal and have boosted our efforts even greater than in the past.

Summary of FY 2013 Achievements

Targets
under the Fujitsu Group Environmental Action Plan (Stage VII) (toward FY 2015)

Continue efforts for efficient use of water, e.g. water recycling and water saving

FY 2013 Key Performance

Water usage: **18,620,000 m³**
reduced by **6.3%** (compared to FY 2012)

FY 2013 Performance and Results

Collectively Rolling out Reduction Activities at Our Semiconductor Plants

We bolstered our reduction of water usage at our semiconductor plants. To reduce usage of pure water, which is indispensable for semiconductor manufacturing, we adjusted the amount of water flowing to each piece of machinery while confirming that the change would not affect the manufacturing process. This allowed us to optimize our water consumption for more than 1,000 machines overall.

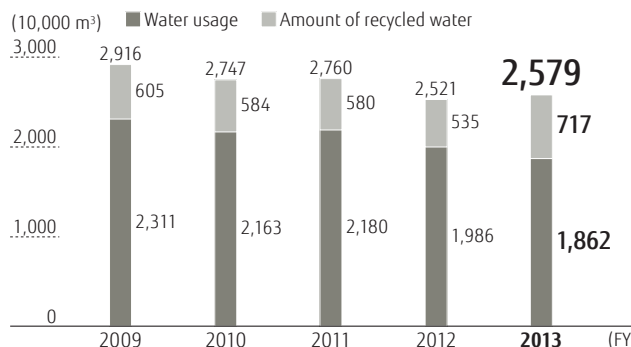


Adjusting pure water flow to manufacturing machinery

6.3% Reduction in Water Usage From FY 2012

Water usage for FY 2013 was 18,620,000 m³ (usage rate per unit of sales: 391 m³/100 mill. yen), which was a 6.3% reduction compared to FY 2012. The proportion of recycled water overall was 38.5%, which greatly contributed to efficient usage.

Trends in Water Usage and Amounts of Recycled Water



TOPICS Promoting Efficient Water Use at Semiconductor Plants

Pure water is indispensable for semiconductor manufacturing. Up to this point, we have focused our concern on the manufacturing process, which meant keeping pure water continuously flowing to machinery even when it was idle and not processing any products. This used voluminous amounts of water. In response, we formed a cross-divisional team of members from the manufacturing, design technology, administration, and plant management divisions at our semiconductor plant in Aizuwakamatsu, Fujitsu Semiconductor Limited, and the main plant of Fujitsu Semiconductor Technology Inc., and began efforts to reduce our usage of pure water.

We optimized the precise amount of water that could be fed to each piece of machinery so that water flow could be reduced while water temperature would still remain within permissible levels and no impact would be felt in the manufacturing process. For machinery that did not have flow meters, we devised approaches to adjust the flow rate, such as using a stopwatch to measure the flow time. As a result, we were able to optimize usage for more than 1,000 pieces of machinery overall and achieve an annualized water usage reduction of 212,000 m³ without any financial investment.

FY 2014 Targets and Plans

Strive to Continually Achieve our Targets
To pursue our Environmental Action Plan (Stage VII) goal to “continue efforts for efficient use of water, e.g. water recycling and water saving,” we will combine efforts one by one at each of our plants and further endeavor to efficiently use water resources following on from actions in FY 2013.