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 2014 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 2014 Key Performance	Water usage: **16,600,000 m³** reduced by **10.8%** (compared to FY 2013)

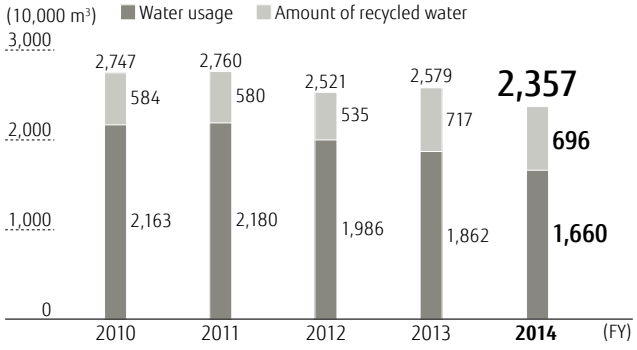
FY 2014 Performance and Results

10.8% reduction in water usage from FY 2013

Water usage for FY 2014 was 16,600,000 m³ (usage rate per unit of sales: 349 m³/100 mill. yen), which was a 10.8% reduction compared to FY 2013. The proportion of recycled water overall was 41.9%, which greatly contributed to efficient usage.

Each of our business sites has set water usage reduction targets and is working to meet them. Our Noble Park Data Center in Australia, for instance, set a 5% (250 m³) target for water use reduction in FY 2014 and their efforts resulted in achieving a 23% (1,180 m³) reduction.

Trends in Water Usage and Amounts of Recycled Water



TOPICS **Reducing Water Usage by Installing Automatic Filters**

At the Fujitsu Nagano Plant, "scrubbers" use water in a spray washing process to remove acidic and alkaline waste gases emitted from the production of printed circuit boards. Spray water is recycled inside the scrubbers, which can lead to contamination from the growth of (microbial) slime from organic compounds and common bacteria in the waste gas. This contamination tends to clog the scrubbers and lower their processing efficiency. Up to now, in order to avoid this situation, it has been necessary to discharge a large amount of wastewater and refresh the scrubbers with new water.

The automatic filters that we have newly installed are able to automatically remove the slime from recycled water and allow us to significantly reduce our water usage and wastewater discharge. As of December 2014, we have started operating machines No. 1 and 2 and are seeing water reduction benefits. Future plans include installing filters in machine No. 3 for even further benefits.

Recycled water purification equipment for scrubbers

Water reductions from installing recycled water purification equipment for scrubbers

Water type	Amount reduced
Water reductions	3,460 m³/yr*

* Total for machines No. 1 and 2.

FY 2015 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 2014.