



Waste Reduction and Recycling

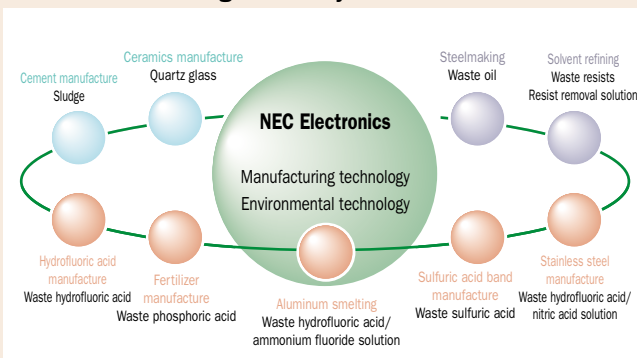
We maintain a recycling rate of 99% or more of industrial waste and are now at work developing this environmental technology globally.

NEC Electronics began working to reduce waste and promote recycling of resources in 1985. The entire group (our predecessor NEC Electron Devices and its domestic manufacturing subsidiaries) achieved a recycling rate of 99% or more of industrial waste in September 2000, which the NEC Electronics Group has maintained since that time.

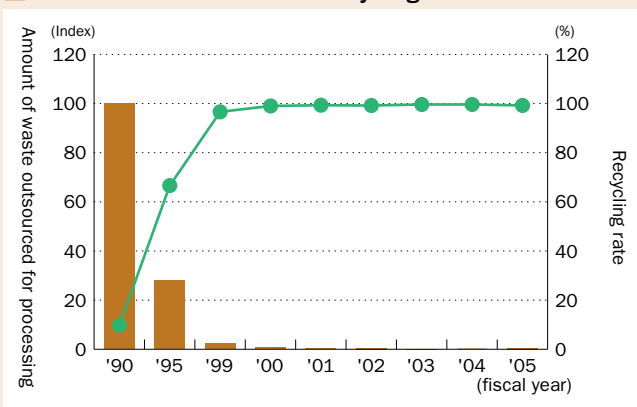
Our waste reduction and recycling efforts include developing manufacturing processes and designing factories that minimize generation of waste. Also, we are collaborating with companies in other industries to promote waste recycling.

These recycling activities are highly recognized by external organizations such as the Clean Japan Center and have earned us a number of awards. These include the Chairman's Prize in the Recycling Promotion Conference Awards and the Chairman's Prize in the Resource Recycling Technology Systems Awards. We seek to adopt improvements accomplished in Japan for overseas subsidiaries as well.

Advanced technologies used by NEC Electronics



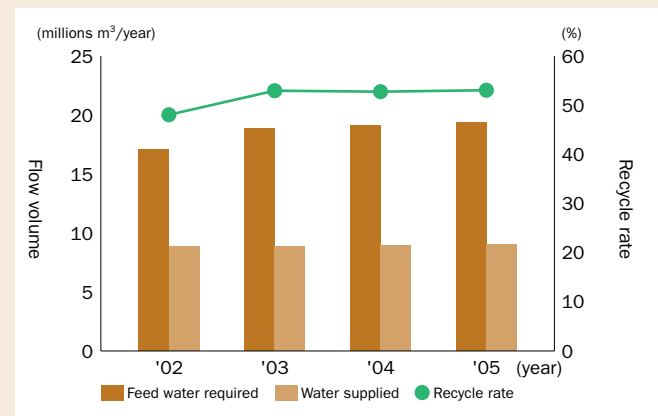
Transition in industrial waste recycling



Water resource conservation

The semiconductor industry consumes a considerable amount of water. We are committed not only to conserving water, but also to recovering and reusing water discharged from our factories and offices. These efforts have enabled us to cut by more than half the feed water required for our semiconductor manufacturing processes that is supplied from outside sources.

Reuse of water



*Recycle rate equals (feed water required minus water supplied) divided by feed water required.

Material recycling of wastewater

NEC Kansai was successful in reducing the amount of wastewater outsourced for processing by utilizing a more efficient system for removing ammonia gas from alkaline wastewater collected in a hydrogen peroxide degradation tank. Also, the ammonia gas removed is converted into ammonium sulfate and recycled for supply as a raw material in nitrogen fertilizer.

Schematic diagram of material recycling

