



# Reduction of Waste



- Recycling Rate
- Effective Use of Water Resources

The Murata Group achieved its goal of zero emissions (zero landfill waste and a 100% recycling rate) nationwide in 2003. We are now working toward zero emissions and a reduction in the total amount of waste internationally.

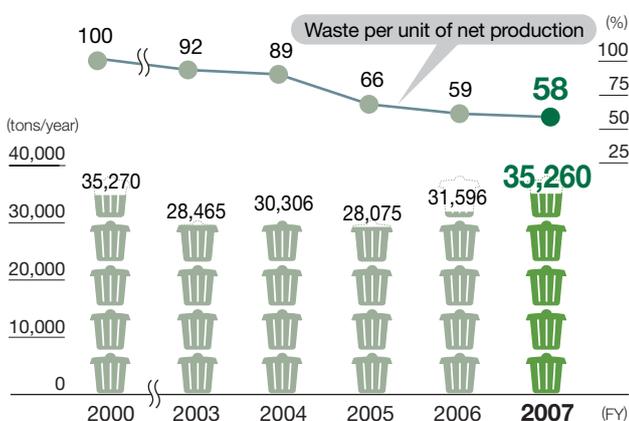
## “Reduce, Reuse, Recycle” Promotion

### Unit Reduction Ratio of 42% against Fiscal 2000

We place priority on the reduction of the waste plastic and waste liquids that make up 70% of all waste matter. By separating ceramics from waste plastic, we are able to reuse those resources. We also use a liquid concentrator that reduces waste liquids to approximately 1/20th of their original volume.

As a result, in fiscal 2007 we reduced waste emissions per unit of net production by 42% compared to fiscal 2000.

#### ▼ Amount of Waste Generation



Waste management staff meetings



### Proactive Information Sharing throughout the Group's Japan Sites

Around Japan, the Group shares information regarding waste reduction success stories and legal revisions. Waste management staff members from each site also gather periodically to attend lectures given by experts and hold discussions, all of which improves the level of administration for the Group.

Thirty-five members gathered at Fukui Murata Manufacturing in fiscal 2007 to analyze case studies and inspect facilities related to waste reduction.

### Adoption of the Electronic Manifest System

The electronic manifest system is a government-led electronic information network that enables online tracking of waste treatment. The computerized system replaces the hard-copy records issued to waste treatment and disposal facility operators by waste generators each time they request treatment.

Murata moved 76% of its record-keeping to the electronic manifest system in fiscal 2007, and plans to complete implementation of the system throughout the Group in Japan by the end of March 2009.

### Achievement of Zero Emissions at Beijing Murata Electronics Co., Ltd.

Murata achieved its goal of zero emissions of waste throughout Japan in fiscal 2003, and has since maintained that record. Murata defines zero emissions as the complete elimination of landfill waste, including directly or indirectly treated waste, and a recycling rate of 100%\*. In fiscal 2006, Murata also set a goal of zero emissions at its international sites by fiscal 2010, and is working steadily toward that goal.

Because circumstances differ in each country and region, reaching a goal of zero emissions is not easy, but we did attain that target at Beijing Murata Electronics Co., Ltd. in fiscal 2007.

\* Murata's zero emissions target excludes waste matter that the Group is unable to process on its own, such as excess sludge in remediation tanks.

#### Employee Perspective

##### Periodic Visits to Waste Treatment Facilities



**Ayako Kunishio**

Environmental Management Sec.,  
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If a waste treatment facility operator were to illegally dispose of the Group's waste, Murata would also be legally and morally responsible. Therefore, we evaluate operators' organizations and visit their facilities to ensure that they observe the law and to check their facility operation and treatment methods prior to contracting them. We continue to make regular visits even after we have established a relationship.

We also hold regular waste management officer meetings to improve our knowledge of legal issues and to share information.