

Waste Reduction



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"We are aiming to establish the Shonan factory as an energy-saving model factory, and share our know-how with the public as we work closely with the community in environmental activities."

Waste Related Data

At our three main factories (Fujisawa, Shonan, and Isehara), we were determined to achieve a waste-recycling rate of 92% by fiscal 2001. However, we fell short of this target, achieving a recycling rate of 91.5% for production-related waste, and 76.3% for general waste, resulting in an overall recycling rate of 85.9%. Regarding general waste, we are focusing on disposal methods for raw waste and a variety of paper types, and in fiscal 2001 we introduced raw waste processors at our Fujisawa factory and Shonan factory.

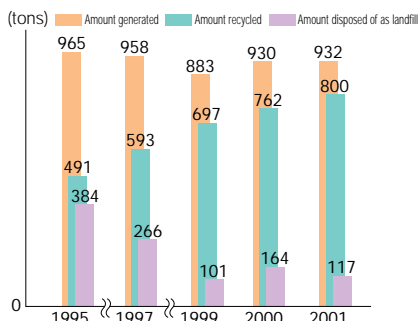
Waste Reduction Activities

At Yamatake we participate in activities to reduce, reuse, and recycle waste in accordance with our corporate philosophy "Savemation," *saving through automation*. For example, waste paper, which accounts for a large proportion of our overall waste, is collected and separated for recycling. In fiscal 2002, we intend to conduct a materials balance analysis that covers all stages of production, from the initial purchase of raw materials to product shipment, for improved utilization of resources and energy.

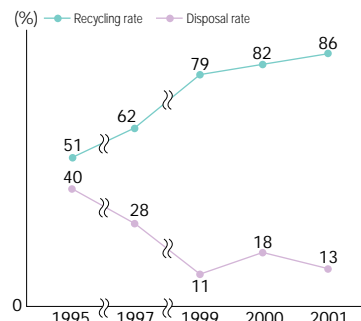
Zero Emissions

The Yamatake Group is aiming to not only reduce our volume of waste for final disposal, but also achieve a rate of zero emissions by fiscal 2004. In fiscal 2001 we achieved a 29% reduction in the amount of waste for final disposal compared with the previous year. (The Group defines zero emissions as a final disposal rate of 2% or less of the total weight of generated waste, or a recycling rate of 98% or more.)

■ Volumetric Comparison of Generated Waste, Recycled Waste, and Waste Disposed of as Landfill



■ Waste Recycling and Disposal Rates



Tsugio Hatano

Environmental Counselor
Environmental Safety Group Manager
Isehara factory, Yamatake Corporation

"The Isehara factory comprises four Group companies, and is concentrating the Group's resources to propose environmental solutions."

Reusing Cardboard as Packaging Material

At the Isehara factory, we previously used packaging materials made from urethane when shipping products. However, as these materials ultimately contributed to production-related waste, we needed a more environmentally friendly way of packaging products. We were also having difficulties with disposing of cardboard waste at the factory. Consequently, we introduced a number of machines used to process used cardboard into paper-covered packaging materials. This has enabled us to convert approximately two-thirds of our packaging materials from recycled cardboard; a rate we hope to improve in the near future. The Fujisawa factory and Shonan factory are also investigating the use of cardboard packaging material processors.

Recycling Expanded Polystyrene

At Taishin Co., Ltd., we introduced a system for recycling expanded polystyrene by melting it using a special solvent, and reusing the reduced product as material in the manufacturing of plastics. Through this recycling system, we have been able to reduce our waste costs by approximately one quarter.



Melting expanded polystyrene