

# B-e-4 Initiatives for Waste Reduction

HORIBA, Ltd. achieved its zero-emission goal in the second half of 2006 and maintained it until the end of 2009. However, in 2010, we were unable to meet our zero-emission requirements due to the disposal of unrecyclable old equipment, which we had no choice but to deliver to landfill. In 2011, we again achieved our zero-emission goal by rectifying this situation.

In 2011, the total volume of waste generated by HORIBA, Ltd. alone increased by 15% compared to the previous year due to increased production. The amount generated by domestic HORIBA Group companies as a whole increased by 39 tons (up about 10%).

In 2012, in order to achieve our zero-emission goal, the HORIBA Group plans to analyze and confirm the actual conditions of, and improve the overall situation of, waste reduction.

**\* HORIBA's definition of zero emissions:**

"The total amount of landfill waste must not exceed 1 percent of total waste generated."

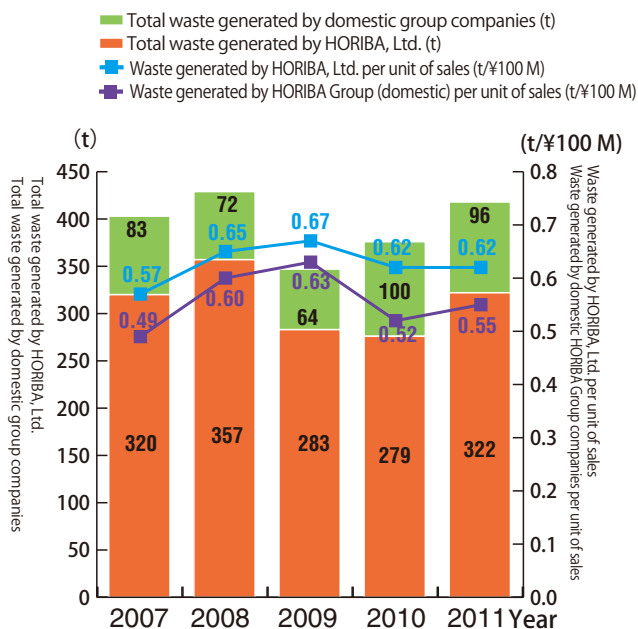
**Total waste generated:**

A generic term for waste discharged from all divisions because it is no longer required (includes valuable resources, general waste and industrial waste).

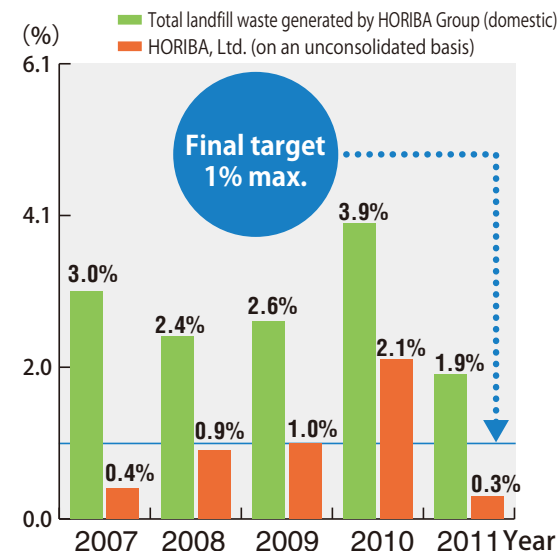
**Total amount of landfill waste:**

The total amount of waste delivered to landfill after processing for reuse, recycling, or intermediate treatment (including neutralization, change into nonhazardous substance, and incineration).

**Total Waste Generation and Waste Generation per Unit of Sales**



**Trend in Total Amount of Landfilled Waste**



Scope:

**Domestic production sites:**

HORIBA, Ltd. head office/factory and Biwako Plant, HORIBA STEC, Co., Ltd. head office/factory and Aso Factory and HORIBA Advanced Techno Co., Ltd. head office/factory

**Domestic group companies:**

HORIBA STEC, Co., Ltd. and HORIBA Advanced Techno Co., Ltd.

**HORIBA Group (domestic):**

HORIBA, Ltd., HORIBA STEC, Co., Ltd. and HORIBA Advanced Techno Co., Ltd.