

## Targets and Results

The goals and results of the initiatives for environmental preservation under the fiscal 2011 Responsible Care activities are as follows.

### Review of FY2011 Targets and Results

★★★Target reached ★★Target almost reached ★Improvement needed

Theme	FY2011 Targets	FY2011 Results	Self - assessment	FY2012 Targets
<b>Eliminate environment incidents</b>	Zero environment incidents	No environment incidents	★★★	Zero environment incidents
<b>Reduce environmental impact</b>	(1) Implement voluntary management plan for air-polluting toxic substances			
	Reduce butadiene emissions from 2010 level of 5.5 tons to 3 tons	Butadiene: 4.0 tons	★	
	Reduce acrylonitrile emissions from 2010 level of 15.2 tons to 9 tons	Acrylonitrile: 13.0 tons	★	Reduce acrylonitrile emissions from 2011 level of 13.0 tons to 10 tons
	(2) Implement zero emissions plan for industrial waste			
	Reduce volume of waste sent to landfill to 140 tons in 2011	Final landfill amount 4.1 tons	★★★	Reduce volume of waste sent to landfill to 4.1 tons in 2011
		Final amount to landfill for domestic group companies 47.1 tons (Landfill disposal rate: 2007 emission standards) 1.9%		Final amount to landfill for domestic group companies Under 25 tons (Landfill disposal rate: 2007 emission standards) 1.0%
	(3) Strengthen company-wide energy conservation project			
Reduce unit energy consumption* to 67.8%→67% of 1990 level	Unit energy consumption was 73.5% of the 1990 level	★	Reduce unit energy consumption to 73.5%→66% of 1990 level	
Reduce unit CO <sub>2</sub> emissions to 71.0%→70% of 1990 level	Unit CO <sub>2</sub> emissions was 78.9% of the 1990 level	★	Reduce unit CO <sub>2</sub> emissions to 78.9%→69% of 1990 level	

\* Per production volume

We have had zero environmental incidents in the last four years. We were aiming to achieve zero emissions\* of industrial waste in 2013, but the goal was achieved two years early. We will continue to focus on reducing unit energy consumption and unit CO<sub>2</sub> emissions by an average of one percent per year as well as reducing acrylonitrile emissions.

\* 0.1% or less of the actual disposal volume in 2007 (a target of less than 33.4 tons)