

## ZEON Group (Japan)

### ZEON Polymix Inc.

#### Introduction to the Otsu Plant

Under the slogan “Aim to be a high-quality corporation,” ZEON Polymix Inc. has been working to eliminate complaints and abnormalities in all processes. In the carbon master batch industry, it was considered inevitable that dust particles would be produced, but to achieve a “dust-free plant” ZEON Polymix worked to develop ways to control dust particles, revamping dust-collection system and improving its dust-containment techniques. In addition, the company substantially reduced the volume of dust emitted by improving work practices, including measures for the disposal of input materials bags and collection of particle bags. In fiscal 2013, we plan to strategically move forward with solutions to remaining issues.



Dust containment sheet

In addition, in line with our goal to create a stable and safe company, we launched the 5S promotional meeting and are building a “3S and 3Tei”\* structure as a bottom-up activity.

\*3S and 3Tei

*Seiri, Seiton, and Seisou (or neatness, orderliness, and cleanliness) as well as Teii, Teihin, and Teiryō (or fixed positioning, fixed products, and fixed quantity)*

#### Environmental and Safety Activities

##### 1. Efforts for Zero Emission from Industrial Waste (100% achievement)

As of November 2011, we achieved a recycling rate of 100% owing to thorough sorting of industrial waste at the plant site and selection of intermediate waste treatment facilities. Naturally, every year we also aim to reduce the amount of industrial waste we emit by repeatedly reviewing our work processes and improving our nonadjusted rate.

Moreover, we are controlling the unit cost of waste treatment by carefully sorting waste oil and metals and having them recycled at intermediate waste treatment facilities. This in turn helps to curb our industrial waste disposal costs.

## 2. Environmental Data

ZEON Polymix Inc. Otsu Plant		FY2008	FY2009	FY2010	FY2011	FY2012
Substances covered by PRTR law	Number of substances	5	5	5	5	5
	Consumption (tons)	90	194	148	165	146
	Amount emitted (tons)	0.0	0.0	0.0	0.0	0.0
Industrial waste	Amount generated (before volume reduction) (tons)	167	201	195	171	155
	Amount sent to landfill (tons)	101	95	25	4.0	0.0
Water resources (Industrial water + Ground water + Waterworks) consumption (1,000 m <sup>3</sup> )		-	-	-	45	50
CO <sub>2</sub> emissions (tons)		2,250	1,987	2,230	1,938	2,631
Energy consumption (crude oil equivalent, kL)		1,329	1,507	1,697	1,573	1,534

ZEON Polymix Inc. Kawagoe Plant		FY2008	FY2009	FY2010	FY2011	FY2012
Substances covered by PRTR law	Number of substances	3	3	3	-	-
	Consumption (tons)	81	56	10	-	-
	Amount emitted (tons)	0.0	0.0	0.0	-	-
Industrial waste	Amount generated (before volume reduction) (tons)	90	48	46	-	-
	Amount sent to landfill (tons)	51	8.9	11.8	-	-
CO <sub>2</sub> emissions (tons)		855	414	103	-	-
Energy consumption (crude oil equivalent, kL)		352	266	56	-	-

### Activities with the Local Community

#### Participating in the eradication of non-native fish in Lake Biwa

In fiscal 2012, as a part of our CSR activities, our employees assisted efforts for the eradication of non-native fish species in Lake Biwa.

On the day of the event, a group of 27 participants, comprising employees and family members, attended, despite it being a Sunday. The group included two female employees, making it a fun day. The fish were not biting and consequently, the number of fish caught was on the low side considering the amount of time spent fishing. However, we reeled in a few large fish, including black bass. Our activity assisted the eradication of non-native fish and it was a very worthwhile day. Next we plan to participate in the annual tournament to eradicate non-native fish species from Lake Biwa, which is a major local event. In Shiga Prefecture, ZEON Polymix, which is situated close to Lake Biwa, plans to play its part in preserving the ecosystem and contribute to local activities through these types of activities in the future.



Teaching children to fish



Blue gills and black bass