

ZEON Group (Japan)

ZEON Chemicals Yonezawa Co., Ltd.

Introduction to ZEON Chemicals Yonezawa Co., Ltd.

ZEON Chemicals Yonezawa Co., Ltd. was established as a fine chemical product production company in 1996 and began production of aroma chemicals which use leaf alcohol* as a main ingredient in 1997.

The company also began production of liquid compounds for reaction injection molding which use dicyclopentadiene as a main ingredient in 1998. It also conducts consigned research work for the ZEON Corporation's new chemical research building opened in April 2006.

* Leaf alcohol

Green note aroma chemical that uses 2-Buthyne extracted from C5 fractions as a starting material



President Makoto Watanabe



ZEON Chemicals Yonezawa Co., Ltd.

Environmental and Safety Activities

1. Conducting Safety Competitions

For six years straight, ZEON Chemicals Yonezawa has had no injuries and no accidents (as of March 2013). As a part of our safety activities, we hold competitions twice a year. In 2012, we held our second irregularity perception competition in which competitors are tested to see if they can detect when something is wrong.

This year's theme was the inspection route during holiday inspections. During a set period of time, the participant must thoroughly inspect the entire plant site based on the 5Ss for safety. In addition to the anomalies that are set for competitors to find,

there are other unexpected irregular situations that can be detected, which allows employees to demonstrate the fruit of their daily efforts. ZEON Chemicals Yonezawa plans to be creative and continue to conduct competitions and other such activities for safety and environmental conservation.



Competition to check for irregularities

2. Environmental Data

ZEON Chemicals Yonezawa Co., Ltd.		FY2008	FY2009	FY2010	FY2011	FY2012
Substances covered by PRTR law	Number of substances	4	4	2	5	4
	Consumption (tons)	17	13	1,231	1,897	1,773
	Amount emitted (tons)	0.0	0.0	0.4	0.5	0.5
Industrial waste	Amount generated (before volume reduction) (tons)	223	59	87	186	187
	Amount sent to landfill (tons)	10	4.2	0.4	0.4	0.0
Water resources (Industrial water + Ground water + Waterworks) consumption (1,000 m³)		-	-	-	14,165	10
CO₂ emissions (tons)		1,170	489	815	940	1,017
Energy consumption (crude oil equivalent, kL)		509	290	455	505	439

Activities with the Local Community

Participation in the Uesugi Yukidoro-matsuri (snow lantern festival)

The Uesugi Yukidoro-matsuri symbolizes the local residents' prayer for peace. Offerings of Lanterns are made at Chinkon-no-oka in Matsugasaki Koen Park, in the city of Yonezawa. As a part of our activities as a member of the community, we participate every year by creating two snow lanterns. The snow lanterns are made by first stomping on the snow to make the base, then placing snow in a frame and treading on it to make it firm. It is then left out for two days to freeze. The snow is then carved in line with the design. At first glance this looks like fun but temperatures are below zero all day and participants have to bear severe cold and blizzards. This year, volunteers wore clothing specially designed for volunteer activities. A total of 25 employees participated during the two days it took to make the lanterns.



Snow lanterns created in front of the main hall of the temple