

## ZEON Group (Japan)

### ZEON North Co., Ltd.

#### Introduction to ZEON North Co., Ltd.

ZEON North Co., Ltd. was established as an affiliate of ZEON Corporation in April of 1972. In July 2003, it merged with the associate company Daisan Kosan and the ZEON Corporation affiliate ZEON Takaoka Analysis Center and expanded its operations to engineering, machinery sales to the aluminum industry, the environmental analysis, and product sales operations. The company runs a distinctive business that utilizes the technologies and personal connections it has built up over time, along with the advantages of its north-central Japan location.

In 2008 it opened a Kawasaki Office in Kanagawa Prefecture and in 2011 a Mizushima Office in Okayama Prefecture. ZEON North is focusing its energy on expanding its engineering business through expanding its bases.



President Hiroshi Fujisawa



Can manufacturing and machinery plant at ZEON North Yonejima Office

#### Environmental and Safety Activities

##### 1. Using Solar LED Street Lamps

As part of its energy conservation promotion in response to recent power supply conditions in Japan, ZEON North has introduced street lamps that use LED lights powered by stored solar energy, installing the lights in front of a gas station owned by the company. Solar LED street lights are independently energy-sourced, so there is no need for construction to install commercial power supplies nor is there any limits on where the lights can be installed. The street lights will continue to function even during power outages, helping ensure the safety of pedestrians at night.



Solar LED lights in front of gas station owned by ZEON North Headquarters

##### 2. Promoting Health and Safety Activities

ZEON North promotes safety and health activities that involve partner companies who perform construction and construction maintenance. As part of those activities, the Partner Companies Safety Conference is held every year, with the aim to raise safety awareness and foster a sense of unity with partner companies. ZEON North aims to make sure that everywhere on-site “rules that are decided are kept,” “rules that can’t be kept are changed,” and that zero accidents occur.



Partner Companies Safety Conference

### 3. Environmental Data

ZEON North Co., Ltd.		FY2007	FY2008	FY2009	FY2010	FY2011
<b>Substances covered by PRTR law</b>	Number of substances	0	0	0	0	0
	Consumption (tons)	0	0	0	0	0
	Amount emitted (tons)	0	0	0	0	0
<b>Industrial waste</b>	Amount generated (before volume reduction) (tons)	45	43	38	36	38
	Amount sent to landfill (tons)	45	31	14	8.0	5.0
<b>Water resources (Industrial water + Ground water + Waterworks) consumption (1,000 m<sup>3</sup>)</b>		-	-	-	-	-
<b>CO<sub>2</sub> emissions (tons)</b>		217	195	152	155	160
<b>Energy consumption (crude oil equivalent, kL)</b>		80	81	76	84	80

#### Activities with the Local Community

##### Participation in Local Environment Beautification Activities in Local Communities

Each year volunteers from in-house participate in cleanup activities along the Himi and Fushikikokubu waterfronts as members of the ZEON Takaoka Group. This activity allows us to closely feel how our actions affect nature and provides a good opportunity to raise our awareness for environmental conservation.



Clean-up activities along Himi and Fushikikokubu waterfronts