

## ZEON Group (Japan)

### Zeon Yamaguchi Co., Ltd.

#### Introduction to Zeon Yamaguchi Co., Ltd.

Zeon Yamaguchi Co., Ltd. was established in October 1992 as a ZEON Group company working in local construction. The company later expanded into analytics and in-house logistics and shipping, and now operates its business through three divisions.



President Toshiyuki Koumura



The Zeon Yamaguchi team in front of the office at the Tokuyama Plant

#### Environmental and Safety Activities

##### 1. Wide ranging environmental support for customers

Zeon Yamaguchi's analytical business supports the environmental efforts of the Zeon Tokuyama Plant by analyzing waste gas, noise, and wastewater on the plant's premises. Outside the company, it supports the environmental activities of local governments and businesses and helps them reduce their environmental impacts. This includes being commissioned by local governments to perform environmental monitoring, such as noise and vibration testing and water quality testing for lake, wetland, and coastal waters, and health (sick building syndrome) inspections of indoor environments at public facilities (e.g., elementary, junior high and high schools, art museums), and by local private companies to perform analysis of environmental factors associated with their business operations.

In fiscal 2011 we expanded our photovoltaic system design and installation business, launched in fiscal 2010, from only servicing public facilities within the prefecture (including junior high and high schools) to also servicing private sector facilities. In fiscal 2013, we installed nine 493.66kW solar power generation systems. We also began a bay construction project (floodgate devices) as a protective measure against storm surges and tsunamis. We intend to aggressively pursue business opportunities in environmental footprint reduction and environmental and safety solutions on a global level.



214kW panel located at a university in Shunan



Solar panels (5.5kW system) installed on the Zeon Yamaguchi's office roof and LED display board installed at the Zeon Yamaguchi headquarters' front gate. Our power generation equipment generates 6,757.6kW of power, while marketable power is 1,171.7kW.

## 2. Environmental Data

Zeon Yamaguchi Co., Ltd.		FY2009	FY2010	FY2011	FY2012	FY2013
Substances covered by PRTR law	Number of substances	40	40	40	40	40
	Consumption (tons)	0.0	0.0	0.0	0.0	0.0
	Amount emitted (tons)	0.0	0.0	0.0	0.0	0.0
Industrial waste	Amount generated (before volume reduction) (tons)	105	187	135	207	225
	Amount sent to landfill (tons)	32	2.0	18.2	1.4	0.8
Water resources (Industrial water + Ground water + Waterworks) consumption (1,000 m <sup>3</sup> )		0.2	0.2	0.2	0.3	0.2
CO <sub>2</sub> emissions (tons)		11	12	11	11	12
Energy consumption (crude oil equivalent, kL)		5.7	6.0	6.0	4.7	4.7

## Activities with the Local Community

Every year, volunteers from Zeon Yamaguchi join volunteers from the Tokuyama Plant and local residents in a clean-up effort on the Higashi River, which flows near the plant, and neighboring parks and roads. Employees also take part in Shunan area sports events, including a softball tournament and 24-hour relay marathon, which helps foster friendly relations with other participants. Some also entered full-marathons around Japan, all of which help to increase company recognition.

### ● Clean-up activities



Participants in the Higashi River cleanup activity



Cleaning up Higashi river



Cleaning up the park scene

### ● Softball tournament



Softball tournament participants



Employees playing softball



Runners at the start line



Participants from Zeon Corporation/Zeon Yamaguchi

### ● 10th Shunan 24-hour relay marathon in Yamaguchi

### ● Waterfront Fun Schools

Waterfront Fun Schools are extracurricular lessons held as visiting courses by the Ministry of Land, Infrastructure, Transport and Tourism after they received a request from elementary schools. An inspection of aquatic life in the Saba River in Hofu, which flows through the residential area of 134 school children (and their teachers), is carried out in order to “get to know the creatures that live in rivers from the perspective of river protection.” It was the first time we had participated in this activity as a company. On the day, staff from the Ministry of Land, Infrastructure, Transport and Tourism and technicians from ZEON instructed the children on how to catch aquatic life, and how to classify them.

The participating school children had a look of great interest at this new experience as they were taught how to use microscopes, which they don't normally have access to, and how to classify aquatic life. They also made observations and compiled the results, and learned about water quality in the Saba River. They were deeply impressed by these experiences. The lesson was brought to an end with everyone safe and sound.

We will continue to plan support activities that contribute to the region through our business activities.



Instructing school children

●Illegal Trade Elimination Campaign

May 11, 2013, Registered Customs Specialists Kurihara and Ikuta from Zeon Yamaguchi's Distribution Division participated in the Illegal Trade Elimination Campaign at AEON TOWN Shunan Shopping Center as members of the Moji Customs Specialist Committee. The day was blessed with fine weather, and numerous shoppers participated in the event. In order to raise awareness of weapons, drugs and fake brand goods, staff from Customs, the Japanese Coast Guard, the police and other related organizations, as well as the customs mascot "*Custom-kun*" and the Japanese Coast Guard mascot "*U-MIN*," participated in the distribution of pamphlets and notebooks regarding the prevention of illegal trade. The event was an activity that strengthened the awareness of the general public.



Campaign mascots and participants