

## ZEON Group (Overseas)

### Zeon Chemicals Europe Ltd. (ZCEL)

#### Introduction to Zeon Chemicals Europe Ltd.

The Zeon Chemicals Europe Ltd. (ZCEL) facility at Barry, Wales, UK, has been in operation since the late 1950's. From 1967 until 1989, the plant was under the control of BP Chemicals Ltd., and in 1989, Zeon Corporation took over the operation. The 25<sup>th</sup> anniversary was marked in April 2014.

NBR, ZSC and NBR-Lx are produced at this plant and exported to Europe, America and Asia. The plant is also the location of the European Technical Service Laboratory. ZCEL has 90 employees and its production operation has management systems that are registered as compliant with both ISO 9001 and ISO 14001 standards.

ZCEL operates from a single site, situated in the center of the Barry Industrial Complex, which also houses Centrica, Momentive Chemicals, Cabot Carbon, Dow Corning, National Power, and Vopak Tank Terminal. The complex is situated within the Vale of Glamorgan approximately two kilometers east of Barry's town center.



Shinji Komiyama MD



ZCEL U.K. plant

#### Environmental and Safety Activities

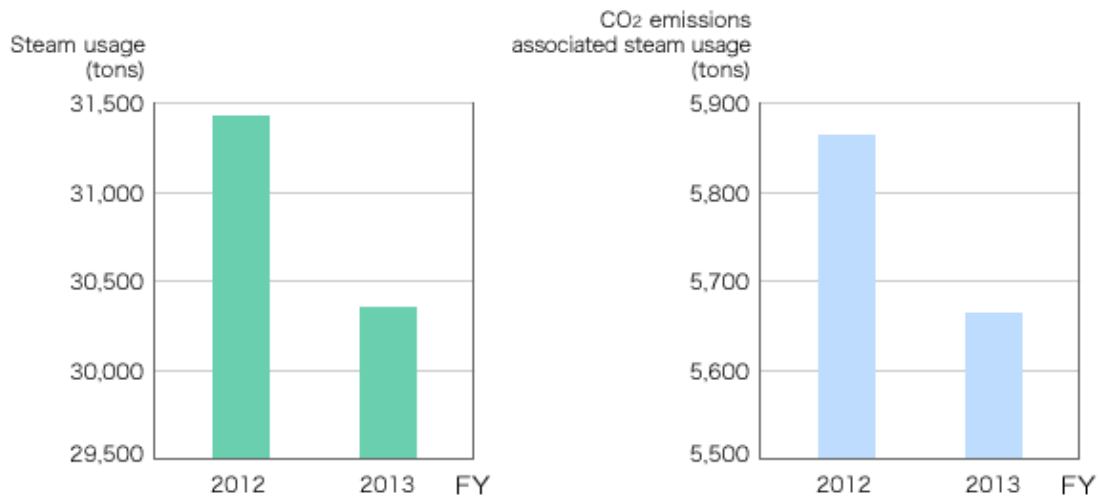
##### 1. Waste Management

Reducing our waste production has always been a high priority at ZCEL as we aim to reduce our environmental impact and at the same time increase our production efficiency. The main improvement activity in 2013 has been to reduce the total amount of waste emanating from plant effluents. The waste volume of plant effluents can be drastically condensed by removing moisture. In 2014, we will install new liquid condensing equipment, and the waste will be sent to external facilities for treatment after we reduce the waste volume.



Liquid condensing equipment planned for on-site installation in 2014

**Steam usage and associated CO<sub>2</sub> emissions**



Scope of accounts: U.K. Plant

**2. Environmental Data**

Zeon Chemicals Europe Ltd. (UK)		FY2009	FY2010	FY2011	FY2012	FY2013
Substances covered by PRTR law	Number of substances	2	2	2	2	2
	Consumption (tons)	9,596	10,400	10,852	9,676	9,220
	Amount emitted (tons)	5.0	6.0	6.0	4.4	5.6
Industrial waste	Amount generated (before volume reduction) (tons)	818	930	680	1,116	1,028
	Amount sent to landfill (tons)	808	908	644	1,069	1,020
Water resources (Industrial water + Ground water + Waterworks) consumption (1,000 m <sup>3</sup> )		-	-	303	245	268
CO <sub>2</sub> emissions (tons)		10,369	11,583	12,597	11,379	11,412
Energy consumption (crude oil equivalent, kL)		5,480	6,111	6,619	6,302	6,018

### Activities with the Local Community

ZCEL is an active member of the local chemical complex Joint Site Initiative which aims to promote good relations with our local residents and provide a swift response to any concerns raised. In addition to investigating any reported environmental issues and visiting local residents to address their concerns, the initiative aims to raise general awareness among local residents of each site's activities.

ZCEL is active in supporting good causes in the local community. The Whitmore Bay Surf Life Saving Club, which trains local youth in rescue and resuscitation, has been helped with the purchase of new equipment. ZCEL has also sponsored the local Porthkerry Pumas Football Team.

ZCEL has supported its employees in taking part in a golf tournament to raise money for the Welsh Children's Cancer Charity LATCH. In addition, ZCEL provides work experience and placements to pupils from local schools and colleges.



The Whitmore Bay Surf Life Saving Club activities