

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.

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



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 objective in 2012 has been to improve waste control and ensure all waste streams are identified and segregated, helping us to find methods for elimination and outlets for recycling of this waste.

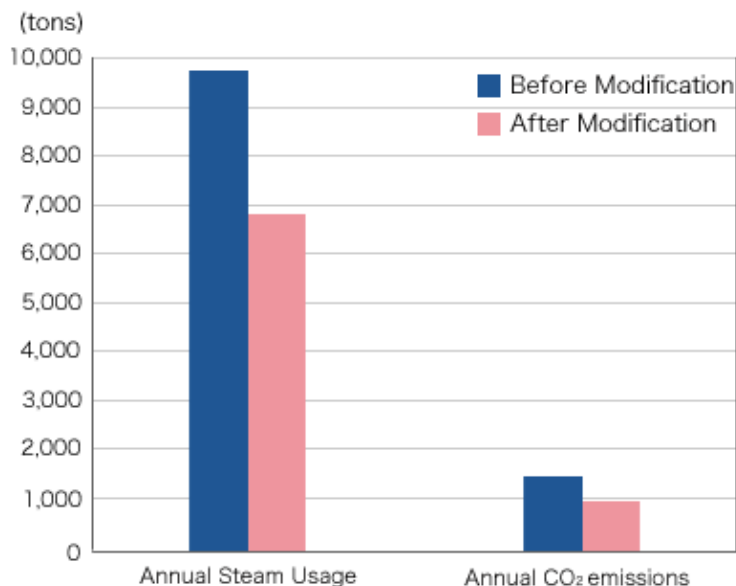


Waste compactor used in 2012 to improve waste control

2. Energy Usage and CO₂ Emissions

Another main area of focus for ZCEL is achieving a reduction in energy usage to reduce our operating costs and our carbon footprint. Several energy saving projects were progressed in 2012 including a major redesign of our acrylonitrile recovery system which enabled us to dramatically reduce the steam usage in our distillation column.

Distillation column steam usage and associated CO₂ emissions before and after system modifications



Scope of accounts: U.K. Plant

2. Environmental Data

ZEON Chemicals Europe Ltd. (UK)		FY2008	FY2009	FY2010	FY2011	FY2012
Substances covered by PRTR law	Number of substances	2	2	2	2	2
	Consumption (tons)	12,554	9,596	10,400	10,852	9,676
	Amount emitted (tons)	3.3	5.0	6.0	6.0	4.4
Industrial waste	Amount generated (before volume reduction) (tons)	1,302	818	930	680	1,116
	Amount sent to landfill (tons)	1,280	808	908	644	1,069
Water resources (Industrial water + Ground water + Waterworks) consumption (1,000 m ³)		-	-	-	303	245
CO ₂ emissions (tons)		15,099	10,369	11,583	12,597	11,379
Energy consumption (crude oil equivalent, kL)		6,661	5,480	6,111	6,619	6,302

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.



ZCEL Charity Golf Participants