

# Cement Industry - Key Facts and Figures at a Glance

## Industry Structure

4 MPA Cement manufacturers operating in UK:

- Cemex UK
- Hanson
- Hope Construction Materials
- Lafarge Tarmac

## Operating Sites

### 11 manufacturing sites:

Cemex UK: Rugby and South Ferriby

Hanson Cement: Ketton Padeswood and Ribblesdale

Hope Construction Materials: Hope

Lafarge Tarmac: Aberthaw, Cauldon, Cookstown, Dunbar, Tunstead

### 2 grinding and blending plants:

Cemex UK: Tilbury

Lafarge Tarmac: Barnstone

### 7 blending only plants:

Hope Construction Materials: Dewsbury and Theale

Lafarge Tarmac: Belfast, Northfleet, Scot Ash, Seaham and West Thurrock

## Production

### Production - Tonnes

	Clinker	Cement	Non-CEM I
2010	6,598,000	7,883,000	37.0%
2011	7,096,000	8,529,000	36.1%
2012	6,555,000	7,952,000	34.4%

## Consumption

	Domestic Deliveries	Imports	Total Consumption
2010	7,828,000	1,153,000	8,980,000
2011	8,403,000	1,173,000	9,576,000
2012	7,789,000	1,122,000	8,910,000

## Main Types of Cement

CEM I - made from ground cement clinker and a small percentage of gypsum to control the material's setting time when mixed with water.

CEM II - is a cement containing cement clinker with between 6 and 35%, fly ash, limestone or blastfurnace slag, a by-product of steel production, as well as a small percentage of gypsum to control the materials setting time when mixed with water.

CEM III - is a cement containing cement clinker with between 36 and 95% blastfurnace slag as well as a small percentage of gypsum to control the materials setting time when mixed with water.

## Jobs

2,500 directly employed

15,000 indirectly employed

48 Apprentices as at 31 January 2014

## Local Economy

A typical cement plant will contribute approximately £15 million a year to the local economy.

Cement is part of the £9 billion mineral products industry. The turnover of the industries that that mineral products industries supply is £400 billion and 2.5 million people.

### Emissions kg/t PCe1

	2010	2011	2012
NOx <sup>2</sup>			
Actual	1.35	1.34	1.39
2015 Target			1,25
SO <sub>2</sub> <sup>3</sup>			
Actual	0.33	0.41	0.51
2015 Target			0.30
Dust			
Actual	0.06	0.06	0.07
2015 Target			0.05
CO <sub>2</sub> <sup>4</sup>			
Actual	725.0	718.6	730.3
2015 Target			698

### Waste - tonnes millions

	2010	2011	2012
Process waste for disposal	0.014	0.005	0.00
Recovered for use as fuel or raw materials <sup>5</sup>	1.3	1.5	1.4

## Health and Safety

	2010	2011	2012	2013
<b>Fatalities</b>				
Staff	0	0	0	0
Contractors	0	0	1	0
Others	0	0	0	0
<b>LTI's<sup>6</sup></b>				
Staff	2	6	4	7
Contractors	1	9	8	3
Others	0	0	0	0

<sup>1</sup> Portland Cement Equivalent (PCe) is a normalising factor related to cement output often used by the cement industry, which enables a comparison of impacts such as environmental between sites whilst taking into consideration differing production methods

<sup>2</sup> Oxides of Nitrogen

<sup>3</sup> Sulphur Dioxide

<sup>4</sup> Carbon Dioxide

<sup>5</sup> waste recovered as raw materials includes by-products

<sup>6</sup> Lost Time Incidents