British Precast Targets 2012

Fourteen proposed sustainability indicator targets were discussed at a British Precast Council meeting in December 2009 and were approved and signed by President Steve Parker. British Precast members are committed to achieving the following targets by 2012 compared with the baseline year of 2008:

- Reducing overall kWh / tonne of energy used in production by 10%.
- Reducing CO2 emissions from production by 10%.
- Reducing kg / tonne waste to landfill by 10%.
- Increasing the proportion of alternative cement additions (as a % of total cement) to 25%.
- Increasing the proportion of recycled / secondary aggregates (as a % of total aggregates) to 25%.
- Reducing mains water consumption by 5%.
- Reducing ground water consumption by 5%.
- Reducing reportable injuries per 100,000 direct employees by 10% per year.
- Increasing the % of production sites covered by an EMS (e.g. ISO 14001) to 85%.
- Increasing the % of production sites covered by a Quality system (e.g. ISO 9001) to 85%.
- Reducing the convictions for air and water emissions to zero.
- Improving the capture of transport data.
- Increasing the % of employees covered by a certified management system (e.g. ISO 9001 / ISO 14001 / OHSAS 18001) to 85%.
- Maintaining the % of relevant production sites that have community liaison activities at 100%.

For further information, please contact Norman Richards, British Precast Environmental Consultant, norman.richards@britishprecast.org.

or visit the British Precast website:
www.britishprecast.org
www.sustainableprecast.com
www.sustainableconcrete.org.uk

SUSTAINABILITY CHARTER

The Sustainability Charter was launched on the 29th November 2007 and members were originally asked to make a voluntary commitment to the following requirements:

- Develop products that improve the quality and sustainability of the built environment.
- Liaise effectively with local communities to foster mutual understanding and respect.
- Manage all waste streams effectively and minimise waste disposal to landfill.
- Measure, report and improve performance on sustainability issues.
- Minimise pollution and emissions associated with production and transportation.
- Operate in a responsible manner to protect employees, contractors and visitors.
- Operate in an efficient and financially sustainable manner without compromising legal, quality or sustainability principles.
- Operate to the highest ethical standards necessary to develop a skilled and competent workforce.
- Operate to the highest quality standards necessary to satisfy customers and consumers.
- Protect and enhance the natural environment adjacent to or affected by precast production.
- Recognise that competition encourages the development of more sustainable products and practices.
- Use energy more effectively and reduce carbon footprints.
- Use primary materials more efficiently and promote the use of secondary materials.
- Use water more efficiently and minimise demands on mains water supplies.
- Work constructively with other organisations to deliver sustainable policies and practices.

“RAISING THE BAR” INITIATIVE

As part of the “Raising the Bar” initiative, British Precast Council agreed that with effect from May 2011, all members will be required to sign up to the Sustainability Charter. This will mean that a further 21 members will be joining the scheme in the coming months and will be audited during the year to ensure that they are fully aware of the requirements of the Charter.

In order to help members keep track of their status under the Raising the Bar scheme and to highlight the various management system credentials of members, British Precast launched a new microsite, www.bpcfcharter.com.

Visitors to this site can gain further information on the following:

- Concrete Targets CT 2015 signatories list.
- The BPCF Sustainability Charter.
- List of Charter Signatories and Charter Members.
- Additional information on member companies’ status with regard to independent certification to the following standards:
  - ISO 9001
  - ISO 14001
  - OHSAS 18001
  - BES 6001
  - Achilles accreditation.

For further information on the contents of this website, please contact Dr. Hafiz Elhag, on hafiz.elhag@britishprecast.org, who is the website and content manager.

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British Precast
PRECAST 2011 update May 2011
SUSTAINABILITY MATTERS UPDATE 2011

We are pleased to report precast industry KPI data for 2010 set against our targets to 2012 and our figures for the last two years. The data will be pooled with that from the other sectors making up the Sustainable Concrete Forum and published during our concrete industry Sustainability performance report issue 5.

The recession since May 2008 has set back the improvement in energy use per unit of output. This was predictable as capacity and overall output levels have been significantly reduced since the data reported in 2008 and 2009. A further contribution to this has been the continuing contraction in the industry. It is estimated that data has been reported for approximately 51% of the year’s production, compared with 53.3% in 2009. The following statistics have been calculated from the data supplied.

By the end of April 2011, the 21 members of British Precast had signed up to the Sustainability Charter.

Martin Clarke, Chief Executive, British Precast

Our Best Practice award winners are featured at www.britishprecast.org.uk. These indicators provide an overview of the impact of the precast industry on society and the environment, and how that impact is managed. The figures reported here relate to the 2009 and 2010 calendar years, and notes are included to indicate how performance has changed compared with 2008.

ENERGY, INCLUDING CLIMATE CHANGE

71.39 kWh of energy was used per tonne of concrete produced in 2010, of which 43.5% was gas, 20.4% was electricity and 28.9% was gas-oil or diesel. This is slightly worse than the data reported in 2008 (57.13 kWh) and 2009 (61.13 kWh), driven by a combination of reduced output levels and greater accuracy of data collection. Note: 2012 target of 10% reduction in energy usage and CO2 per tonne is not currently being achieved.

AGGREGATE USE - MATERIALS

0.14 Tonnes of cementitious materials were used per tonne of concrete produced in 2010, consisting of 75% fly ash, 12% ground granulated blast furnace slag, 3.5% quicklime, 4.5% limestone and 5.5% GGBFs. These figures are slightly worse than those reported in 2009 and 2008 due to changes in the product mix and improved accuracy of reporting.

Note: 2012 target of 25% cementitious alternative use is not quite being achieved, but close at 22.4%.

Aggregate usage in 2010 showed little change from 2009 and 2008 with 1,080 tonnes of aggregates being used per tonne of concrete produced. The use of secondary aggregate increased slightly from 20.2% in 2008 to 23.1% in 2010. Note: 2012 target of 25% recycled aggregate use is not quite being achieved, but close at 24%.

HEALTH & SAFETY

4.9 m tonnes or 48.4% of reported production was covered by an OHSAS 18001 UKAS certified health and safety management system in 2010, which is significantly better than the 25.4% reported in 2008. Health and safety data is collected separately through the Concrete Targets 2010/11 Award initiative. This national initiative promotes the implementation and sharing of best practice among the companies in the industry.

Note: 2012 target to maintain convictions to “0” is currently being achieved.

No environmental incidents were recorded or reported to external regulatory authorities in 2009 or 2010, compared with one environmental incident reported in 2008.

Note: 2012 target to maintain convictions to “0” is currently being achieved.

SUSTAINABILITY PERFORMANCE REPORT 2010

These indicators provide an overview of the impact of the precast industry on society and the environment, and how that impact is managed. The figures reported here relate to the 2009 and 2010 calendar years, and notes are included to indicate how performance has changed compared with 2008.

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