

The British Ready-mixed Concrete Association

Sustainability & Responsible Sourcing Performance and Targets

Sustainability Principles	Concrete Industry Performance Indicators	Unit of expression	Required link to Responsible Sourcing BES6001 & BS8902	Related Gov't Targets - 2008 Sustainable Construction Strategy	2007 Data	2008 Data	Target Set	Quantitative	Qualitative	Agreed BRMCA Target
Environmental Management Systems	1.1 % of production sites covered by a UKAS certified EMS (such as ISO14001, EMAS and for SMEs, BS8555)	% of production sites (and absolute number compared to total)	Management systems (section 3.3.2 of BES 6001)	25% of products used in construction projects to be from schemes recognised for responsible sourcing (by 2012)	51%	67%	Y	Y	N/A	Increase % of production sites covered by a UKAS certified EMS to 90% by 2012
Waste minimisation	1.2 Kg of waste to landfill as a proportion of production output (supplemented by 3. 1a-d)	kg per tonne and kg per m ³	Waste Management (section 3.4.4 of BES 6001)	*By 2012,a 50% reduction of construction, demolition and excavation waste to landfill compared to 2008 *20% reduction in construction packaging waste (by 2012) * Construction Waste Commitment: individual organisations commit to waste to landfill targets at company level *Sector resource efficiency plans prepared and implemented by trade associations *Future work in this area includes "improving take back or exchange opportunities for unwanted and waste materials"	<10kg/tonne, <25kg/m ³	2.28kg/tonne, 5.40kg/m ³	Y	Y	N/A	Reduce kg/m ³ of waste to landfill to 50% of 2008 levels by 2012
Emissions (excluding CO ₂)	1.3 Number of convictions for air and water emissions per annum	Number per annum	Local communities (section 3.4.9 of BES 6001)		0	0	Y	Y	N/A	Maintain zero convictions for air and water emissions per annum, ongoing
Stakeholder Engagement	No Indicator - performance to be covered qualitatively(can be undertaken by relevant Associations/SCF)	n/a	Social Requirements (section 3.4.1 of BES 6001)		N/A	N/A	N/A	N/A	N/A	No Target
Quality & Performance	1.4 % of production sites covered by a UKAS certified 9001 quality management system	% of production sites (and absolute number compared to total)	Management systems (section 3.2 of BES 6001)	Multiple actions for "innovation" linked to the overarching target to "enhance the industry's capacity to innovate and increase the sustainability of both the construction process and it's resultant assets"	100% of BRMCA	100% of BRMCA	Y	Y	N/A	Maintain level at 100%
Energy	2.1 Energy used in production as a proportion of production output	kWh per tonne and m ³	Greenhouse gas Emissions (section 3.4.2 of BES 6001)		4.6kWh/tonne, 10.9kWh/m ³	1.73 kWh/tonne, 4.10 kWh/m ³ (100% Electricity)	Y	Y	N/A	Reduce overall kWh/m ³ of energy used in production by 7.5% from 2008 levels by 2012
CO ₂ Emissions (Production)	2.2 CO ₂ emissions as a proportion of production output	kg CO ₂ per tonne and kg CO ₂ per m ³	Greenhouse Gas Emissions (section 3.4.2 of BES 6001)	15% reduction in carbon emissions from construction processes and associated transport compared to 2008 levels. Note: Wider UK Government target is 80% reduction by 2050 based on 1990 levels Recent carbon budget has target of 34% by 2020 based on 1990 levels	1.8kg/tonne, 4.3kg/m ³	0.93kg/tonne, 2.20kg/m ³ (100% electricity)	Y	Y	N/A	Reduce CO ₂ /m ³ emissions from production by 15% from 2008 levels by 2012 - (Linked to 2.3d)

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CO ₂ Emissions (Transport)	2.3a Average delivery distance travelled per tonne/m ³ (from factory gate to customer)	km per tonne (and km per m ³)	Transport Impacts (section 3.4.7 of BES 6001)	15% reduction in carbon emissions from construction processes and associated transport compared to 2008 levels. Note: Wider UK Government target is 80% reduction by 2050 based on 1990 levels Recent carbon budget has target of 34% by 2020 based on 1990 levels	8.3km/m ³	8.3km/m ³	Linked to 2.3d	N/A	N/A	Linked to 2.3d
	2.3b Tonnes or m moved split by three modes: road, rail, inland barge	Tonnes moved by each mode (and m moved by each mode)	Transport Impacts (section 3.4.7 of BES 6001)		100% Road	100% Road	Linked to 2.3d	N/A	N/A	Linked to 2.3d
	2.3c Average load for each mode	Tonnes per load (and m per load) by mode	Transport Impacts (section 3.4.7 of BES 6001)		6m ³	6m ³	Linked to 2.3d	N/A	N/A	Linked to 2.3d
	2.3d CO ₂ emissions as a proportion of production output	kg CO ₂ per tonne (and kg CO ₂ per m ³) per mode	Transport Impacts (section 3.4.7 of BES 6001)		No data	Est. via Defra 1.43kgCO ₂ /tonne or 3.19kgCO ₂ /m ³	Y	Y	N/A	Reduce CO ₂ /m ³ emissions from transport by 15% from 2008 levels by 2012 - (Linked to 2.2)
Materials Efficiency	3.1a Material diverted from the waste-stream for use as a fuel source as a % of total energy use	%	Resource Use & Waste Management (sections 3.4.3 & 3.4.4 of BES 6001)	*By 2012, a 50% reduction of construction, demolition and excavation waste to landfill compared to 2008 *20% reduction in construction packaging waste (by 2012) * Construction Waste Commitment: individual organisations commit to waste to landfill targets at company level	N/A	N/A	N	N/A	N/A	No Target
	3.1b % of additional cementitious materials (GGBS, fly ash, etc) as a proportion of total cementitious materials used	%	Resource Use & Waste Management (sections 3.4.3 & 3.4.4 of BES 6001)	*Sector resource efficiency plans prepared and implemented by trade associations *Future work in this area includes 'improving take back or exchange opportunities for unwanted and waste materials'	No data	34%	Y	Y	N/A	Increase proportion of cement additions to 35% by 2012 and maintain this optimum level
	3.1c Recycled/ secondary aggregates as a proportion of total aggregates used	%	Resource Use & Waste Management (sections 3.4.3 & 3.4.4 of BES 6001)		No data	0.30%	Y	N/A	Y	Increase % use of Recycled/Secondary aggregate as a proportion of total aggregate use to optimal level based on independent report (due 2010)
Materials Efficiency	3.1d Use of waste and recovered materials in manufacture of cement	%	Resource Use & Waste Management (sections 3.4.3 & 3.4.4 of BES 6001)	As above	N/A	N/A	N	N	N/A	No Target
Water	3.2a Mains water use as a proportion of production output	Litres per tonne and litres per m ³	Water Extraction (section 3.4.5 of BES 6001)	Water usage in the manufacturing and construction phase reduced by 20% compared to 2008 usage (by 2012)	59 litres/tonne, 140 litres/m ³	63 litres/tonne, 149.2 litres/m ³	Y	Y	N/A	Reduce overall water consumption to optimum level of 130 litres/m ³ by 2012
	3.2b Controlled groundwater use as a proportion of production output	Litres per tonne and litres per m ³	Water Extraction (section 3.4.5 of BES 6001)		No data	0.19 litres/tonne, 0.44 litres/m ³	Y	Y	N/A	Maintain 2008 levels, linked to 3.2a

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Site Stewardship	3.3 % of relevant production sites that have site specific action plans	% of relevant production sites (and absolute number compared to total)	Additional to BES 6001		No data	100%	N	N/A	N/A	No Target
Health & Safety	4.1 Lost time injuries for 'direct employees' per 1 million hours worked	Number per 1 million hours worked and absolute number per annum	Management systems (section 3.3.3 of BES 6001)	<p>*Reduce the incidence rate of fatal and major injury accidents by 10% year on year from 2000 levels (by 2010)</p> <p>*Reduce the incidence rate of cases of work-related ill health by 20% from 2000 levels (by 2010)</p> <p>*10% reduction year on year in the incidence rate of fatal and major injuries from 2010 levels (by 2012)</p> <p>*50% increase in projects offering a route to occupational health support from 2008 level (by 2012)</p> <p>*30% increase from 2007 level of micro-SMEs and SMEs taking up H&S training and education at an organisational level</p>	New LTI based Performance Indicator introduced (See MPA report for previous RIDDOR based data)	New LTI based Performance Indicator introduced (See MPA report for previous RIDDOR based data)	Y	Y	N/A	Overarching Zero harm expectation, and interim 5 year reduction in LTIFR by December 2014
Employment & Skills	4.2a % of employees covered by UKAS certified ISO9001/ ISO 14001/ OHSAS 18001 systems (Training & Competence sections)	% of employees covered by UKAS 9001/14001 systems	Employment & Skills (section 3.4.8 of BES 6001)	<p>*Development of sector specific Skills Pledge and Action Plan for driving a training culture in the building products sector (Proskills - Aug 2008)</p> <p>*Net increase of 230,000 qualified people recruited and trained in the industry compared with 2006 (by 2010) - increasing to 260,000 by 2012</p> <p>*To achieve 13,500 apprenticeship completions in England, Wales and Scotland by 2010 and to increase this to 18,700 a year by 2012</p> <p>* Promotion of the value of CPD, and facilitating access to suitable developmental training on sustainability aspects</p>	100% of BRMCA	100% of BRMCA	Y	Y	N/A	Maintain % of relevant employees covered by UKAS certified ISO9001/ ISO14001/ OHSAS18001 (Training & competence sections) systems at 100%
	4.2b % of employees covered by environmental and H&S management systems following the principles of BS EN 14001 and OHSAS 18001	% of employees covered by BS EN ISO 14001 and OHSAS 18001 systems	Employment & Skills (section 3.4.8 of BES 6001)	As above, but additionally to operate a 'HSE compliant' fully competent workforce by 2010	100% of BRMCA	100% of BRMCA	Y	Y	N/A	Maintain % of employees covered by BS EN ISO 14001/ OHSAS18001 management systems at 100%
Local Community	4.3 % of relevant production sites with community liaison activities (supplemented by 1.3)	% of relevant production sites (and absolute number compared to total)	Local Communities (section 3.4.9 of BES 6001)		No data	No data	Y	Y	N/A	Increase % of relevant production sites that have community liaison activities to 100% by 2012