



Brett Landscaping

Environmental & Sustainability Data Collation Report 2017 (Incorporating GHG Reporting to ISO 14064-1)



Introduction

Brett Landscaping is committed to producing the most sustainable products available within each specific sector of its business and operates to BS EN ISO 9001, BS EN ISO 14001, BS OHSAS 18001 and BRE BES 6001 standards covering quality, environmental, health & safety and Environmental & Sustainability respectively.

This report also includes the mandatory reporting requirements stipulated by ISO 14064-1 'Specification with guidance at the organisation level for the quantification and reporting of greenhouse gas emissions and removals'.

The organisation also works closely with its supply chain partners to actively develop and introduce suitable management systems, certified standards and directives to enhance the built environment. Brett Landscaping is committed to continually improve its effectiveness in these areas and will continue to liaise with stakeholders and set itself meaningful and measurable objectives and targets to achieve this in line with BRE BES 6001 and BS 8902.

The natural environment is the foundation of our business, and Brett Landscaping are committed to protecting it for future generations. We see our responsibility as a balance between supplying products to meet society's needs while respecting and conserving the land.

We will continue to demonstrate our commitment to this through an ethos of supply chain management and product stewardship, together with a commitment to engage with stakeholders that may be affected by the impacts of our products.

The following data has been collated against the Sustainable Construction Forum (SCF) Key Performance Indicators (KPI's) and targets, and is compliant with the requirements of the Building Research Establishment (BRE) Environmental and Sustainability Standard BES 6001 '*Framework Standard for the Responsible Sourcing of Construction Products*'.



Production Director*
Brett Landscaping

*And 'Responsible Person' as identified under GHG standard ISO 14064-1

Sustainability Principles	Concrete Industry Performance Indicators & Brett Specific KPI's	Unit of expression	Required link to BES 6001	British Precast 2020 Targets (with 2012 Baseline)	Brett Landscaping Base-Line Data 2015	Brett Landscaping Annual Data 2017	Target Set	Quantitative	Qualitative	Brett Landscaping Targets to 2017	Target Achieved? Yes / No / N.A.
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 (sections 3.3.2 & 3.4.3 of BES 6001)	Increasing the tonnage, as well as production sites, covered by an EMS (e.g. ISO 14001) to 95%	100%	100 %	Y	Y	N/A	Maintain % of production sites covered by a UKAS certified EMS at 100%	YES
Waste minimisation	1.2a kg of waste to landfill as a proportion of production output (supplemented by 3. 1a-d)	kg per tonne	Waste Management (section 3.4.4 of BES 6001)	Reducing overall factory waste by 10% & Reducing factory waste to landfill to < 0.5 kg/ tonne	0.061 kg/tonne	0.113 kg/tonne	Y	Y	N/A	Maintain kg/tonne of waste to at 2015 levels throughout 2016 & 2017	NO See NOTE A
Waste minimisation	1.2b Net waste ratio. Ratio of 'total waste product usage' to 'waste to landfill'	Ratio	Waste Management (section 3.4.4 of BES 6001)	-	650:1	391:1	Y	Y	N/A	-	N.A.
Emissions (excluding CO ₂)	1.3 Number of convictions for air and water emissions per annum	Number per annum	Local communities (section 3.4.10 of BES 6001)	Reducing the convictions for air and water emissions to zero	0	0	Y	Y	N/A	Maintain zero convictions for air and water emissions	YES
Stakeholder Engagement	1.4 Stakeholder engagement. <i>No Indicator – performance to be covered qualitatively</i>	n/a	Social Requirements (section 3.4 of BES 6001)	-	-	-	N/A	N/A	N/A	No Target	N.A.
Quality & Performance	1.5 % of production sites covered by a 'UKAS' certified 9001 quality management system	% of production sites (and absolute number compared to total)	Management systems (section 3.2.3 of BES 6001)	Increasing the tonnage, as well as production sites, covered by a quality system (e.g. ISO 9001) to 95%.	100%	100 %	Y	Y	N/A	Maintain % of production sites certified to BS EN ISO 9001 at 100%	YES
Responsible Sourcing	1.6 % of reported production certified to BES 6001	% of reported production tonnes Certified to BES 6001	Management systems (section 3.2.4 of BES 6001)	Increasing the tonnage, as well as production sites, covered by a Responsible Sourcing standard (e.g. BES 6001) to 95%	100% (Very good)	100 % (Excellent)	Y	Y	N/A	Maintain % of production tonnes certified to BES 6001 at Very Good Status at 100%	YES

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Energy & CO ₂ Emissions (Production)	2.1 Energy used in production as a proportion of production output	kWh per tonne	Energy & Greenhouse gas Emissions (sections 3.4.1 & 3.4.2 of BES 6001)	Reducing overall kWh/tonne of energy used in production by 10%	28.49 kWh/tonne	25.38 kWh/tonne	Y	Y	N/A	Reduce kWh/tonne emissions from production by 3% per annum from 2015 levels in 2016 & 2017	YES See NOTE B
	2.1a Energy intensity of production output	tonnes : kWh ratio	Energy & Greenhouse gas Emissions (sections 3.4.1 & 3.4.2 of BES 6001)		1:28.49	1:25.38	Y	Y	N/A	Reduce energy intensity ratio from production by 3% per annum from 2015 levels in 2016 & 2017	YES
	2.1b Energy intensity of production output	£turnover : kWh ratio	Energy & Greenhouse gas Emissions (sections 3.4.1 & 3.4.2 of BES 6001)	& Reducing CO ₂ emissions for production by 20%	Left Intentionally Blank – commercially sensitive data	Left Intentionally Blank – commercially sensitive data	Y	Y	N/A	Reduce energy intensity ratio from production by 3% per annum from 2015 levels in 2016 & 2017	YES
	2.2 CO ₂ emissions as a proportion of production output	kgCO ₂ per tonne	Energy & Greenhouse gas Emissions (sections 3.4.1 & 3.4.2 of BES 6001)	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	10.83 kgCO ₂ /tonne	8.11 kgCO ₂ /tonne	Y	Y	N/A	Reduce kgCO ₂ /tonne emissions from production by 3% per annum from 2015 levels in 2016 & 2017	YES See NOTE C
	2.2a GHG intensity of production output	Tonnes : kgCO ₂ Ratio	Energy & Greenhouse gas Emissions (sections 3.4.1 & 3.4.2 of BES 6001)		1:10.83	1:8.11	Y	Y	N/A	Reduce GHG intensity ratio from production by 3% per annum from 2015 levels in 2016 & 2017	YES
	2.2b GHG intensity of production output	£turnover : kgCO ₂ Ratio	Energy & Greenhouse gas Emissions (sections 3.4.1 & 3.4.2 of BES 6001)		Left Intentionally Blank – commercially sensitive data	Left Intentionally Blank – commercially sensitive data	Y	Y	N/A	Reduce GHG intensity ratio from production by 3% per annum from 2015 levels in 2016 & 2017	YES

Sustainability Principles	Concrete Industry Performance Indicators & Brett Specific KPI's	Unit of expression	Required link to BES 6001	British Precast 2020 Targets (with 2012 Baseline)	Brett Landscaping Base-Line Data 2015	Brett Landscaping Annual Data 2017	Target Set	Quantitative	Qualitative	Brett Landscaping Targets to 2017	Target Achieved? Yes / No/ N.A.
CO ₂ Emissions (Transport)	2.3a Average delivery distance travelled per tonne (from factory gate to customer)	km per tonne	Transport Impacts (section 3.4.8 of BES 6001)	No BPCF Target 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	8.59 km / tonne (0.41km/tonne as part of a 21.02 tonne load)	8.27km / tonne (0.40 km/tonne as part of a 20.41 tonne load)	Linked to 2.3d	N/A	N/A	Linked to 2.3d	N.A.
	2.3b Tonnes moved split by three modes: road, rail, inland barge	Tonnes moved by each mode	Transport Impacts (section 3.4.8 of BES 6001)		549,696 tonnes (100% Road)	547,801 tonnes (100% Road)	Linked to 2.3d	N/A	N/A	Linked to 2.3d	N.A.
	2.3c Average load for each mode	Tonnes per load	Transport Impacts (section 3.4.8 of BES 6001)		21.02 tonnes	20.41 tonnes	Linked to 2.3d	N/A	N/A	Linked to 2.3d	N.A.
	2.3d CO ₂ emissions as a proportion of production output	kgCO ₂ per tonne	Transport Impacts (section 3.4.8 of BES 6001)		7.72 kgCO ₂ /tonne (0.37kgCO ₂ /tonne as part of a 21.04 tonne load)	8.34 kgCO ₂ /tonne (0.41kgCO ₂ /tonne as part of a 20.41 tonne load)	Y	Y	N/A	Maintain at 2015 Baseline in 2016 and 2017	NO See NOTE D
Materials Efficiency	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)	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%	29.84%	32.01%	Y	Y	N/A	Maintain proportion of cement additions at or above 25%	YES
	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)		0.78%	0.86%	Y	N/A	Y	Examine/ assess the optimum recycled/secondary aggregate use as a proportion of total aggregate use based upon independent LCA reports	Ongoing See NOTE E

Sustainability Principles	Concrete Industry Performance Indicators & Brett Specific KPI's	Unit of expression	Required link to BES 6001	British Precast 2020 Targets (with 2012 Baseline)	Brett Landscaping Base-Line Data 2015	Brett Landscaping Annual Data 2017	Target Set	Quantitative	Qualitative	Brett Landscaping Targets to 2017	Target Achieved? Yes / No/ N.A.
Water	3.2a Mains water use as a proportion of production output	Litres per tonne	Water Extraction (section 3.4.5 of BES 6001)	Reduce mains water consumption by 20%	66.23 Litres/tonne	54.89 Litres/tonne	Y	Y	N/A	Maintain optimum level of overall water usage whilst maintaining Mains water usage at or below 2015 levels in 2016 & 2017 and optimising use of recycled / recovered water subject to product technical specifications	YES
	3.2b Controlled groundwater use as a proportion of production output	Litres per tonne	Water Extraction (section 3.4.5 of BES 6001)		0.17 Litres/tonne	0.33 Litres/tonne	Y	Y	N/A	Maintain optimum level of overall water usage whilst maintaining Mains water usage at or below 2015 levels in 2016 & 2017 and optimising use of recycled / recovered water subject to product technical specifications	YES
	3.2c Mains water intensity of production output	Production tonnes : Litres ratio	Water Extraction (section 3.4.5 of BES 6001)		1:0.066	1:0.055	Y	Y	N/A	Maintain 2015 ratio in-line with KPI 3.2a in 2016 & 2017	YES
	3.2d Controlled groundwater Intensity of production output	Production tonnes : Litres ratio	Water Extraction (section 3.4.5 of BES 6001)		1:0.00017	1:0.00033	Y	Y	N/A	Maintain 2015 ratio in-line with KPI 3.2a in 2016 & 2017	YES
Site Stewardship	3.3 % of relevant production sites that have site specific action plans	% of relevant production sites (and absolute number compared to total)	Resource Use (Section 3.4.3 of BES 6001)	-	100%	100%	N	N/A	N/A	Maintain at 100%	YES

Sustainability Principles	Concrete Industry Performance Indicators & Brett Specific KPI's	Unit of expression	Required link to BES 6001	British Precast 2020 Targets (with 2012 Baseline)	Brett Landscaping Base-Line Data 2015	Brett Landscaping Annual Data 2017	Target Set	Quantitative	Qualitative	Brett Landscaping Targets to 2017	Target Achieved? Yes / No/ N.A.
Health & Safety	4.1a Reportable Injuries per 100,000 direct employees	Number of reportable injuries per 100,000 direct employees And absolute number per annum	Management systems (section 3.3.3 of BES 6001)	Reduction in accident frequency of 65% between 2014 and 2018	0 (0 / 100,000 employees)	2 (743 / 100,000 employees)	Y	Y	N/A	Overarching Zero harm expectation, and reduce LTIFR 'direct employees' figures by 20% per year in 2016 & 2017	YES See NOTE F
	4.1 Lost time injuries for 'direct employees' per 1 million hours worked	Number of LTI's per 1 million hours worked for direct employees and absolute number per annum									
Employment & Skills	4.2a % of employees covered by UKAS certified ISO9001/ISO 14001/OHSAS 18001 systems (Training & competence sections)	% of employees covered by UKAS ISO 9001/14001 or OHSAS 18001 systems	Employment & Skills (section 3.4.9 of BES 6001)	Increasing the % of employees covered by a certified management system (e.g. ISO 9001/ISO 14001/OHSAS 18001) to 100% Increasing the % of employees covered by MPA Safer by competence training and qualifications to 100%	100%	100%	Y	Y	N/A	Maintain % of relevant employees covered by UKAS certified ISO9001/ ISO14001 & OHSAS 18001 at 100%	YES
	4.2b % of employees covered by environmental and H&S management systems following the principles of BS EN 14001 or OHSAS 18001	% of employees covered by BS EN ISO 14001 or OHSAS 18001 systems	Employment & Skills (section 3.4.9 of BES 6001)	Increasing the % of employees covered by MPA Safer by competence training and qualifications to 100%	100%	100%	Y	Y	N/A	Maintain % of Relevant employees covered by BS EN ISO 14001 & OHSAS 18001 management systems at 100%	YES
	4.2c Safety, health, Environmental and Responsible Sourcing related training undertaken by Brett Landscaping Employees	Hours of training attended	Employment & Skills (section 3.4.9 of BES 6001)	No target set at Baseline – measure introduced in 2017	New in 2017	5,553 hours 20.64 hours per employee (2.95 days based on a 7 hour training day))	-	-	-	-	N/A See NOTE G

Sustainability Principles	Concrete Industry Performance Indicators & Brett Specific KPI's	Unit of expression	Required link to BES 6001	British Precast 2020 Targets (with 2012 Baseline)	Brett Landscaping Base-Line Data 2015	Brett Landscaping Annual Data 2017	Target Set	Quantitative	Qualitative	Brett Landscaping Targets to 2017	Target Achieved? Yes / No / N.A.
Local Community	4.3 % of relevant production sites with community liaison activities (supplemented by 1.3 & 3.3)	% of relevant production sites (and absolute number compared to total)	Local Communities (section 3.4.10 of BES 6001)	Maintaining the % of relevant production sites that have community liaison activities at 100%	100%	100%	Y	Y	N/A	Maintain % of relevant production sites that have community liaison activities at 100%	YES
	4.3a Number of community complaints (supplemented by 1.3)	Complaints per production tonne	Local Communities (section 3.4.10 of BES 6001)		2 (Actual) = Effective 0 / tonne	4 (Actual) Effective 0 / tonne	Y	Y	N/A	Overarching zero expectation with year on year reduction of 5% from 2015	NO See NOTE H
	4.3b Number of community events held or sponsored	Number of events held per year	Local Communities (section 3.4.10 of BES 6001)		37	61	Y	Y	N/A	X 'Brett Group' events each year	N.A.
	4.3c % use of constituent materials sources within 50km of production facilities (i.e. support for local business)	%	Local Communities (section 3.4.10 of BES 6001)		61.29%	66.97%	Y	Y	N/A	Maintain minimum 55% use of constituent materials sources with 50km of production facilities subject to product technical specifications and supply availability	YES

Notes:

The Brett Group figures for 'events' are shown above. This is because certain operations such as 'Precast Concrete Production' is less appealing in terms of community visits, than quarry visits and it would be unfair to suggest that a lack of visits to these facilities represents a lesser level of community liaison. It should also be noted that community liaison activities are relevant and appropriate to our immediate neighbours and the areas in which we operate.

4.3c data represents the % usage of any given source within the final product. This is to ensure that the % shown is representative of £turnover & tonnage used rather than just geographic position. i.e. A single very local constituent with a low value, purchased one per year should not adversely affect (falsely improve) the published figures, as in reality such a purchase could represent 0.001% of the constituents purchased, with large value/volume items being purchased from further afield.

Additional constituent material transportation analysis:

Sustainability Principles	Constituent material transportation analysis	Unit of expression	Required link to Responsible Sourcing BES 6001	Related Gov't Targets (No BPCF Targets)	Brett Landscaping Base-Line Data 2015	Brett Landscaping Annual Data 2017	Brett Landscaping Targets to 2017	Target Achieved? Yes / No/ N.A.
CO ₂ Emissions (Transport)	Delivery distance travelled per tonne of traceable constituent material relative to proportionate usage (from source to Brett)	km travelled per constituent tonne supplied	Transport Impacts (section 3.4.7 of BES 6001)	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	2.83 km per constituent tonne (return journey)	2.25 km per constituent tonne (return journey)	Maintain 2015 performance or enhance (where possible) by 2017	YES See NOTE I
	Method of transportation split by modes	% moved by each mode	Transport Impacts (section 3.4.7 of BES 6001)		42.21 % (Conveyor) 50.29 % (Road) 3.20 % (Sea) 4.31 % (Rail)	48.25 % (Conveyor) 45.90 % (Road) 3.73 % (Sea) 2.12 % (Rail)	Maintain 2015 performance or enhance (where possible) by 2017	YES
	Average load for each mode	Tonnes per load by mode	Transport Impacts (section 3.4.7 of BES 6001)		N/A (Conveyor) 30 tonnes (Road) 4000 tonnes (Sea) 1040 Tonnes (Rail) 1000 tonnes (barge)	N/A (Conveyor) 30 tonnes (Road) 4000 tonnes (Sea) 1040 Tonnes (Rail) 1000 Tonnes (Barge)	Maintain 2015 performance or enhance (where possible) by 2017	YES

Transport related aspects and impacts of our business and terminology used:

Transport related environmental aspects and impacts have been assessed via the organisations UKAS accredited BS EN ISO 14001 certified management system, with the main contributory factors being CO₂ emissions, use of natural resources (i.e. fuel sources), transport distances and neighbourhood noise/disruption/congestion. The above is true of both 'customer transport' (KPI's 2.3a to 2.3d) and those given above. For 'Brett Transport' from gate to client, for road transportation, the Defra conversion factor 1.00907kgCO₂/km has been used (DEFRA 2017 Freighting Goods Table – All HGV – Average Laden - as an overall average figure combining various truck modes & sizes).

As part of our policy to reduce our environment aspects and impacts associated with transport, these have been assessed via the organisations UKAS accredited BS EN ISO 14001 certified management system, examining and detailing issues pertaining to our impacts upon air, water, land, natural resources, flora, fauna and human interaction in terms of past, present and planned events under our direct control, those influenced by supplier and those influenced by customer demand.

In accordance with our transport policy, in addition to customer transport, we also monitor the constituent transport mileage on an annual basis and actively seek to source constituents from local suppliers to reduce the environmental impact of our operations. However, as we do not directly control the operations of our suppliers, we are unable to monitor their direct CO₂ emissions, but can monitor our own impact on this in terms of transport distances and by efficient ordering of products in 'full loads' wherever possible.

The Methodology for calculation of all transport related KPI's is taken directly from ISO 14064-1, with supporting information from the Concrete Industry SCF guidance documents in combination with Defra conversion factors.

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GHG ISO 14064-1 mandatory reporting requirements:

Detail of 'Boundaries'

Production of 'Precast Concrete Products'.

* 2014 previously stated (7.920) has been corrected due to error caused by incomplete data

Direct and indirect emissions by GHG source

	2014	2015	2016	2017
Electricity (Excluding Solar)	9.060 kgCO ₂ per tonne *	7.675 kgCO ₂ per tonne	6.498 kgCO ₂ per tonne	5.318 kgCO ₂ per tonne
Solar Electricity (since Jan 2016)			0.085 kgCO ₂ per tonne	0.065 kgCO ₂ per tonne
Gas/diesel oil – e.g. for heating (i.e. known as Red Diesel or Gas Oil)	1.095 kgCO ₂ per tonne	1.275 kgCO ₂ per tonne	1.091 kgCO ₂ per tonne	1.027 kgCO ₂ per tonne
Recovered fuel oil/other heating oil (specify)	0.000 kgCO ₂ per tonne	0.000 kgCO ₂ per tonne	0.000 kgCO ₂ per tonne	0.000 kgCO ₂ per tonne
Gas Oil for mobile plant	1.059 kgCO ₂ per tonne	1.051 kgCO ₂ per tonne	1.052 kgCO ₂ per tonne	0.986 kgCO ₂ per tonne
Mains natural gas	0.000 kgCO ₂ per tonne	0.000 kgCO ₂ per tonne	0.000 kgCO ₂ per tonne	0.000 kgCO ₂ per tonne
Bottled gas	0.040 kgCO ₂ per tonne	0.035 kgCO ₂ per tonne	0.047 kgCO ₂ per tonne	0.061 kgCO ₂ per tonne
Coal	0.000 kgCO ₂ per tonne	0.000 kgCO ₂ per tonne	0.000 kgCO ₂ per tonne	0.000 kgCO ₂ per tonne
Biofuel	0.000 kgCO ₂ per tonne	0.000 kgCO ₂ per tonne	0.000 kgCO ₂ per tonne	0.000 kgCO ₂ per tonne
Other renewable energy source	0.000 kgCO ₂ per tonne	0.000 kgCO ₂ per tonne	0.000 kgCO ₂ per tonne	0.000 kgCO ₂ per tonne
Other site energy source (Bulk Gas)	0.925 kgCO ₂ per tonne	0.792 kgCO ₂ per tonne	0.783 kgCO ₂ per tonne	0.653 kgCO ₂ per tonne

A description of how the CO₂ from biomass fuel is treated

Not Applicable.

A description of how the CO₂ relating to Solar Generated Electricity is treated

2 x 49.9. kW Solar farms at Cliffe are registered for Feed-In Tariff Payments and as such their generation is counted within UK Government Electricity Generation calculations. Therefore Solar Electricity generation is subject to same CO₂ conversion factor as National Grid Supplied Electricity

GHG removals

Not Applicable.

Exclusion of GHG sources and justification statement

No exclusions made within the boundaries established.

Historical base year data

The base line year is given as 2015 unless otherwise stated.

Explanation of changes from the base year, or recalculation of data

Steady progress towards established targets has been made. Yr 2014 previously stated Electricity (7.920) has been corrected due to error caused by incomplete data set (missing 2 months Cliffe Electricity Usage data) See overall notes for 'normalisation' adjustment to 2012 data for continuity purposes.

Reference to quantification methodology and factors and any changes made (this statement includes the methodology for production, client transport and constituent transport)

Methodology taken directly from ISO 14064-1, with supporting information from the Concrete Industry SCF guidance documents in combination with Defra conversion factors. Please also see overall summary notes (below).

Uncertainty statement

The organisation has undertaken an uncertainty exercise in accordance with EPA regulations. However, the data collation is verified before use, and the factors used to determine GHG are supplied by Defra, with the uncertainty values being extremely low. The level of uncertainty of the resulting estimates depends significantly on the source category and the pollutant. However, as our sources of CO₂ emissions arise from the combustion of fuel, this uncertainty is vastly reduced, as emissions can be estimated with a high degree of certainty regardless of how the fuel is used as these emissions depend almost exclusively on the carbon content of the fuel, which is generally known with a high degree of precision. The fuel used in our case is almost exclusively gas/electric, with other fuel sources as defined within the relevant SCF PI Guidance Document appendices. Hence, no organisation has determined that no further safety/variance values or factors are required in terms of onward reporting.

Verification statement, and type of verification and level of assurance achieved

CRC verification and ESOS compliant

Overall summary notes:

Brett Landscaping has adopted the objectives and targets detailed above. Where organisation data indicates that the industry (trade association) target has been met, whilst it is desirable to surpass the aforementioned target, the requirements in terms of BES 6001 have been achieved. Revised 'organisational' targets will be discussed within the management review meetings to determine the scope for further improvement. KPI 2.3d relates to the transportation of the product 'Precast concrete' from the production facility to site, and the associated return journey, linked to KPI's 2.3a-c. Transport related environmental aspects and impacts have been assessed via the organisations UKAS accredited BS EN ISO 14001 certified management system, with the main contributory factors being CO₂ emissions and transport distances. Revisions to published 2012 data have been made as a result of changes in reporting requirements, in order to maintain continuity and enable 'like-for-like' comparison and measurement of improvement. The term 'UKAS' refers to a certificate issued by a UKAS accredited certification body.

NOTE A: Waste Minimisation

2017 figure Waste to Landfill includes a one-off removal of 40 tonnes of soil contaminated concrete from Pocklington from clearance of an area to stockyard in August 2017 which could not be processed by designated recycling facility. Underlying Waste to Landfill if this one-off item was removed would be 0.039 kg / tonne, below target level.

NOTE B: Energy used in production as a proportion of production output

Since 2015 DEFRA published conversion factors for Gas Oil to kWh has reduced from 10.734 kWh / litre to 10.706 kWh / litre. To check validity of achievement of energy used in production as a proportion of production output a calculation based on 2015 conversion factors was undertaken to check underlying reduction. This value would have been 25.40 kWh / tonne and still achieves the target reduction of 3% p.a. (2017 target = 26.81 kWh / tonne). All other kWh conversion factors remained the same.

NOTE C: CO₂ Emissions as a proportion of production output

Since 2015 DEFRA published conversion factors for Electricity to kgCO₂ has reduced from 0.4964 kgCO₂ / kWh to 0.38146 kgCO₂ / kWh. To check validity of achievement of CO₂ emissions as a proportion of production output a calculation based on 2015 conversion factors was undertaken to check underlying reduction. This value would have been 9.73 kgCO₂ / tonne and still achieves the target reduction of 3% p.a. (2017 target = 10.19 kgCO₂ / tonne).

NOTE D: CO₂ emissions as a proportion of production output

Transport emissions vary dependant on requirements for customer service and delivery requirements, required product transfers between sites to meet specific customer demands. In addition, products are transferred between sites for secondary processing (i.e. Lugano CBP from Poole to Barrow), all transfers are included in calculations without any additional primary production tonnage. In addition, courier / small order items are counted as a single load each, regardless of whether multiple loads despatch on the same vehicle. Customer services records for load build indicate underlying single vehicle despatch load weights are 26.7 tonnes and 24.6 tonnes for Merchant and Direct to Site deliveries respectively. DEFRA published kgCO₂ / km factor 2017 (All HGV – Average Laden) has increased by 12.3% from 0.89883 kgCO₂/km at baseline to 1.00907 kgCO₂ / km. Using baseline conversion factor with 2017 transport data would give 7.43 kgCO₂ / kmtonne or 0.37 kgCO₂ / tonne as part of a 20.41 tonne load – effectively unchanged.

NOTE E: Recycled/Secondary aggregates as a proportion of total aggregates used

No independent LCA assessments yet undertaken. BPCF target covers a wide range of precast concrete products including mass units. Over 95% of Brett Landscaping products are colour and aesthetically sensitive, therefore, there is very limited scope to increase recycled aggregates without adversely affecting the product quality.

NOTE F: Health and Safety

In 2017, 2 RIDDOR reportable injuries occurred direct employees, including 1 +7 days Lost Time Injury and 1 Specified Injury without lost time. Only +7 day LTI is included in which is not included in direct employee LTIFR of 1.53 which is below BPCF target of 4.0 by 2018 and below MPA target of 1.8 by 2018.

NOTE G: Safety, health, Environmental and Responsible Sourcing related training undertaken by Brett Landscaping employees

New measure introduced for 2017 taken from monthly training reports, no target yet set.

NOTE H: Number of Community Complaints

Community Complaints received at Barrow (3) in Jun / Jul 17 via EHO, these relate to noise from CBP in late evening during period of very hot temperatures when local residents had windows open. Action taken to ensure all CBP factory doors closed unless FLT entering / exiting, EHO happy with rapid response of site team. Site was operating within permitted permissions and planning consents. No further complaints received since Jul 17. Community complaint received at Cliffe Nov 17, defective fire call point due to water ingress triggered site-wide audible fire alarms during Saturday pm when site unoccupied. All Fire call points that could be affected by water ingress have been upgraded to prevent recurrence. . Please note 4 actual complaints over 540,094 tonnes equates to effective ratio of 0 complaints per tonne.

NOTE I: Delivery distance travelled per tonne of traceable constituent material relative to proportionate use (from source to Brett)

Reduction due to changes of constituent materials and production tonnages at key sites resulting in lower road distances. Cliffe production tonnage uplift has taken CV delivery from 42.21% to 48.25% of all constituent materials and reduced road haulage, combined with road delivered constituent material supply point changes, from 50.29% to 45.90%

ENERGY / CO₂ / WATER / WASTE TO LANDFILL YEAR ON YEAR PROGRESS

