



## **Brett Aggregates Limited**

# **Environmental & Sustainability Report January to December 2022 (Incorporating GHG Reporting to ISO 14064-1)**



## Introduction

Brett Aggregates 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 ISO 45001 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 Aggregates 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 Aggregates 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*'.

We have detailed 2022 performance compared to our 'new baseline year of 2021' in order to provide a summary of progression. As can be seen, vast improvements have been made. We remain committed to further improvement, with new targets set as 1% per year to 2025 from the 2021 baseline data.

CO<sub>2e</sub> is now reported rather than CO<sub>2</sub> in order to standardise our data collation processes and to meet the requirements of SECR. In terms of previous targets set as CO<sub>2</sub>, this change has only had a minor impact in terms of the reported information herein.

*Tom Longland*

**Managing Director\***  
**Brett Aggregates**

\*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	MPA & Gov't Targets (with 2012 Baseline)	Brett Aggregates Jan to Dec'21 Data (New Baseline)	Brett Aggregates Jan to Dec'22 Data	Target Set	Quantitative	Qualitative	Brett Aggregates Targets to 2025
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)	25% of products used in construction projects to be from schemes recognised for responsible sourcing	100%	100%	Y	Y	N/A	Maintain % of production sites certified to BS EN ISO 14001 at 100%
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)	Individual organisations commit to waste to landfill targets at company level	0.017 kg/tonne	0.018 kg/tonne	Y	Y	N/A	Maintain below 0.050 kg/tonne
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)	Sector resource efficiency plans prepared and implemented by trade associations.	14203 : 1	16002 : 1	Y	Y	N/A	-
Emissions (excluding CO <sub>2</sub> e)	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
Stakeholder Engagement	1.4 Stakeholder engagement. No Indicator – performance to be covered qualitatively	n/a	Social Requirements (section 3.4 of BES 6001)	-	-	-	N/A	N/A	N/A	No Target
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)	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%	100%	Y	Y	N/A	Maintain % of production sites certified to BS EN ISO 9001 at 100%
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)		100%	100%	Y	Y	N/A	Increase to 100% of production tonnes certified to BES 6001 at 'very good' level

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Energy & CO <sub>2</sub> e 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% & Reducing CO <sub>2</sub> emissions for production by 20%  Note: Wider UK Government target was set in April 2021 of a 78% reduction by 2035 based on 1990 levels	6.92 kWh/tonne	4.97 kWh/tonne	Y	Y	N/A	Reduce kWh/tonne emissions from production by 1% per year from baseline levels by 2025
	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 : 6.92	1 : 4.97	Y	Y	N/A	Reduce energy intensity ratio from production by 1% per year from baseline levels by 2025
	2.1b Energy intensity of production output	£turnover : kWh ratio	Energy & Greenhouse gas Emissions (sections 3.4.1 & 3.4.2 of BES 6001)		(not publicly available)	(not publicly available)	Y	Y	N/A	Reduce energy intensity ratio from production by 1% per year from baseline levels by 2025
	2.2 CO <sub>2</sub> e emissions as a proportion of production output	kgCO <sub>2</sub> e per tonne	Energy & Greenhouse gas Emissions (sections 3.4.1 & 3.4.2 of BES 6001)		1.72 kgCO <sub>2</sub> e/tonne	1.15 kgCO <sub>2</sub> e/tonne	Y	Y	N/A	Reduce kgCO <sub>2</sub> e/tonne emissions from production by 1% per year from baseline levels by 2025
	2.2a GHG intensity of production output	Tonnes : kgCO <sub>2</sub> e Ratio	Energy & Greenhouse gas Emissions (sections 3.4.1 & 3.4.2 of BES 6001)		1 : 1.72	1 : 1.15	Y	Y	N/A	Reduce GHG intensity ratio from production by 1% per year from baseline levels by 2025
	2.2b GHG intensity of production output	£turnover : kgCO <sub>2</sub> e Ratio	Energy & Greenhouse gas Emissions (sections 3.4.1 & 3.4.2 of BES 6001)		(not publicly available)	(not publicly available)	Y	Y	N/A	Reduce GHG intensity ratio from production by % per year from baseline levels by 2025

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CO <sub>2</sub> e 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 BES6001)	<p>No MPA Target</p> <p>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</p>	26.00 km/tonne (road) 58.18 km/tonne (rail) 34.91 km/tonne (barge)	27.16 km/tonne (road) 48.85 km/tonne (rail) 33.60 km/tonne (barge)	Linked to 2.3d	N/A	N/A	Linked to 2.3d
	2.3b Tonnes moved split by modes: road, rail, inland barge, sea	Tonnes moved by each mode	Transport Impacts (section 3.4.8 of BES6001)		3705704.20 t 77.82% road 19.24% rail 2.94% barge	3902916.82 t 74.16% road 21.93% rail 3.91% barge	Linked to 2.3d	N/A	N/A	Linked to 2.3d
	2.3c Average load for each mode	Tonnes per load	Transport Impacts (section 3.4.8 of BES6001)		20.40 tonnes (road) 1065.22 (rail) 1161.74 (barge)	21.00 tonnes (road) 1203.99 (rail) 1183.46 (barge)	Linked to 2.3d	N/A	N/A	Linked to 2.3d
	2.3d CO <sub>2</sub> e emissions as a proportion of production output (sales)	kgCO <sub>2</sub> e per tonne	Transport Impacts (section 3.4.8 of BES6001)		1.19 kgCO <sub>2</sub> e /tonne (Overall)	1.16 kgCO <sub>2</sub> e /tonne (Overall)	Y	Y	N/A	Reduce overall kgCO <sub>2</sub> e tonne by 1% per year from baseline levels by 2025

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Recycling	3.1c Recycled/secondary aggregate as a proportion of total aggregate production	%	Resource Use & Waste Management (sections 3.4.3 & 3.4.4 of BES 6001)		23.81%	28.39%	Y	Y	N/A	Maintain recycled/secondary aggregate at >20.0% based upon availability & client demand
Water	3.2a Mains water use as a proportion of production output	Litres per tonne	Water Extraction (section 3.4.5 of BES 6001)	<p><i>Reduce mains water consumption by 20%</i></p> <p><i>Note – reductions already made between 2012 &amp; 2017</i></p>	20.54 litres/tonne	17.32 litres/tonne	Y	Y	N/A	Reach optimum level of overall water usage whilst targeting mains water reduction of 1% per year from baseline levels by 2025
	3.2b Controlled groundwater use as a proportion of production output	Litres per tonne	Water Extraction (section 3.4.5 of BES 6001)		314.36 litres/tonne	224.65 litres/tonne	Y	Y	N/A	Reach optimum level of overall water usage whilst targeting groundwater reduction of 1% per year from baseline levels by 2025
	3.2c Mains water intensity of production output	Production tonnes : Litres ratio	Water Extraction (section 3.4.5 of BES 6001)		1 : 20.54	1 : 17.32	Y	Y	N/A	Reduce ratio in-line with KPI 3.2a by 2025
	3.2d Controlled groundwater Intensity of production output	Production tonnes : Litres ratio	Water Extraction (section 3.4.5 of BES 6001)		1 : 314.36	1 : 224.65	Y	Y	N/A	Reduce ratio in-line with KPI 3.2b by 2025
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%

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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)	<i>Overarching zero harm expectation</i>	1793 per 100,000 employees (4 actual)	0 per 100,000 employees (0 actual)	Y	Y	N/A	Overarching Zero harm expectation, and continual reduction in actual number of injuries and LTIFR for 'direct employees'
	4.1b 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			2.24 per 1million hours (1 actual)	4.70 per 1million hours (3 actual)				
Employment & Skills	4.2a % of employees covered by UKAS certified ISO9001/ISO 14001/BS ISO 45001 systems (Training & competence sections)	% of employees covered by UKAS ISO 9001/14001 or BS ISO 45001 systems	Employment & Skills (section 3.4.9 of BES 6001)	<i>Increasing the % of employees covered by a certified management system (e.g. ISO 9001/ISO 14001/BS ISO 45001) to 100%</i>  <i>Increasing the % of employees covered by MPA Safer by competence training and qualifications to 100%</i>	100%	100%	Y	Y	N/A	Maintain % of relevant employees covered by 'UKAS' certified ISO 9001/ ISO 14001 & BS ISO 45001 at 100%
	4.2b % of employees covered by environmental and H&S management systems following the principles of BS EN 14001 or BS ISO 45001	% of employees covered by BS EN ISO 14001 or BS ISO 45001 systems	Employment & Skills (section 3.4.9 of BES 6001)	<i>Increasing the % of employees covered by MPA Safer by competence training and qualifications to 100%</i>	100%	100%	Y	Y	N/A	Maintain % of Relevant employees covered by BS EN ISO 14001 & BS ISO 45001 management systems at 100%

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Local Community	4.3 % of relevant production sites with community liaison activities (supplemented by 1.3 & 3.3)	% of relevant production sites	Local Communities (section 3.4.10 of BES 6001)	<i>Maintaining the % of relevant production sites that have community liaison activities at 100%</i>	100%	100%	Y	Y	N/A	Maintain % of relevant production sites that have community liaison activities at 100%
	4.3a Number of community complaints (supplemented by 1.3)	Complaints per production tonne	Local Communities (section 3.4.10 of BES 6001)		Effectively 0/tonne (15 actual)	Effectively 0/tonne (11 actual)	Y	Y	N/A	Overarching zero expectation
	4.3b Number of community events held or sponsored	Number of events held per year	Local Communities (section 3.4.10 of BES 6001)		6 events, plus £9075 charitable donations (6 BAL specific*)	2 events, plus £3950 charitable donations (BAL specific)	N/A	N/A	N/A	No target
	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)		100% for BAL production & recycled processing	100% for BAL production & recycled processing	Y	Y	N/A	Maintain minimum 100% use of constituent materials sources with 50km of production facilities subject to product technical specifications and supply availability

\*4.3b data relates to Brett Aggregates only. COVID-19 obviously impacted upon the normal community activities that would otherwise have taken place.



## GHG ISO 14064-1 mandatory reporting requirements (kgCO<sub>2</sub>e throughout):

### Detail of 'Boundaries'

Production of 'Aggregate'.

### Direct and indirect emissions by GHG source

	January to December 2021
Electricity	0.20 kgCO <sub>2</sub> e per tonne
Fuel oil, e.g. for heating	0.00 kgCO <sub>2</sub> e per tonne
Recovered fuel oil/other heating oil (Specify)	0.00 kgCO <sub>2</sub> e per tonne
Gas oil for mobile plant (Red Diesel)	0.95 kgCO <sub>2</sub> e per tonne
Mains natural gas	0.00 kgCO <sub>2</sub> e per tonne
Bottled gas	0.00 kgCO <sub>2</sub> e per tonne
Coal	0.00 kgCO <sub>2</sub> e per tonne
Biofuel	0.00 kgCO <sub>2</sub> e per tonne
Other renewable energy source	0.00 kgCO <sub>2</sub> e per tonne
Other site energy source (Bulk Gas)	0.00 kgCO <sub>2</sub> e per tonne
Gas oil for dredger (Red Diesel)	0.01 kgCO <sub>2</sub> e per tonne
Internal transport movements (Combined Road, Rail, Barge)	0.00 kgCO <sub>2</sub> e per tonne

### A description of how the CO<sub>2</sub>e from biomass fuel is treated

Not Applicable.

### GHG removals

Not Applicable.

### Exclusion of GHG sources and justification statement

No exclusions made within the boundaries established.

### Historical base year data

The baseline year has been updated to the reporting period Jan-Dec'21. The new base-line year is indicated within this report, together with new 2025 targets. This approach now matches with the SECR requirements of the Brett Group.

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

As stated within our 2020 financial year report, it was our intention to reset the baseline year to 2021, as business operations were adversely affected by Covid-19 in 2020 and therefore the data was not a reliable representation of 'normal' operations. The 2021 report reflects this reset, as we believe the 2021 data will be a more reliable representation of 'normal' operations as the business recovers from the pandemic. Our base year recalculation policy (after this initial reset in 2021) is to recalculate our base year if structural changes that have a significant impact occur.

### 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, in combination with Defra UK Government reporting guidelines and 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 CO<sub>2</sub>e 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 stated within the 'boundaries' section of this report. Hence, the 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

Carried out by Excellentia69 Consultancy Limited. AA1000 moderate level of assurance. This level of assurance is equivalent of a limited assurance under ISO 14064-3.

## Overall summary notes:

Brett Aggregates 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 assessed product 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 CO<sub>2</sub>e emissions and transport distances.

The term 'UKAS' refers to a certificate issued by a UKAS accredited certification body.

**Additional 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 CO<sub>2</sub>e 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 'Transport from gate to client' for road transportation, the Defra conversion factor 0.87703kgCO<sub>2</sub>e/km has been used as an overall average figure combining various truck modes & sizes, i.e. Government figure pertaining to 'Road (all HGV AV. Laden)'.

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 terms of mitigation of transport impacts, we continue to recognise the high level of savings made by our hauliers, through the consistent use of vehicle telematics and driver performance charts, a high level of driver training, persistent methods of minimising fuel consumption such as an increased emphasis on trailer tyre pressure, and smart witness cameras to monitor our transports for quality and safety.

In accordance with our transport policy, we also 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 CO<sub>2</sub>e 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.