



Carbon Reduction Plan

BRE Group (Building Research Establishment Limited and BRE Global Limited)

September 2023

Commitment to achieving net zero

BRE Group (Building Research Establishment Limited and BRE Global Limited) is committed to achieving net zero emissions by 2050 at the latest.

Baseline emissions footprint

Baseline emissions are a record of the greenhouse gases that have been produced in the past and were produced prior to the introduction of any strategies to reduce emissions. Baseline emissions are the reference point against which emissions reduction can be measured.

Baseline Year: 2019-20	
Additional details relating to the baseline emissions calculations	
Emissions resulting from the use of grid electricity and natural gas for BRE occupied buildings are calculated using the most recent UK Government GHG Conversion Factors for Company Reporting. Energy is also used for business travel in rental cars or employee-owned vehicles (other than employee commuting). We use the distance-based calculation method from expense claims for miles travelled and the UK Government GHG Conversion Factor for kgCO ₂ e/mile based on an 'Executive' car type. For employee commuting, we use the average-data method with transport modes from our employee travel survey and national data on commuting patterns. We calculate emissions from waste generated in operations using the waste-type specific method and we are working to expand and improve our Scope 3 data collection and assessment.	
Our baseline year emissions are followed by fluctuations due to the impact of the Covid-19 pandemic.	
Baseline year emissions: April 2019 - March 2020	
EMISSIONS	TOTAL (tCO₂e)
Scope 1	726.2
Scope 2	1,012.4
Scope 3	705.0
Fuel- and energy-related activities	86 (transmission and distribution (T&D) losses)
Waste generated in operations	24
Business travel	172 (rental cars or employee-owned vehicles)*
Employee commuting	423
Downstream transportation and distribution	N/A (we do not transport or distribute sold products)
Total Emissions	2,443.6

*Note that 2.3tCO₂e of Scope 1 is attributed to business travel by company-owned vehicles.

Current emissions reporting

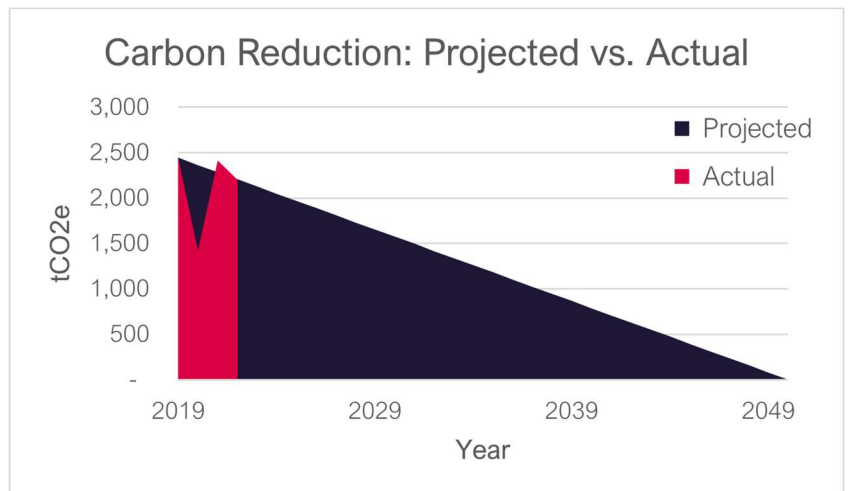
Current emissions reporting year: April 2022 – March 2023	
EMISSIONS	TOTAL (tCO _{2e})
Scope 1	1,101.4
Scope 2	767.7
Scope 3	332.1
Fuel- and energy-related activities	70.2 (transmission and distribution (T&D) losses)
Waste generated in operations	5.7
Business travel	120.2 (rental cars or employee-owned vehicles)
Employee commuting	136
Downstream transportation and distribution	N/A (we do not transport or distribute sold products)
Total Emissions	2,201.2

Emissions reduction targets

In order to continue our progress to achieving net zero, we have adopted the following carbon reduction targets.

We project that carbon emissions will decrease over the next five years to **1810 tCO_{2e}** by **2027-28**. This is a reduction of **26%** from baseline.

Progress against these targets can be seen in the graph.



Carbon reduction projects

Completed Carbon Reduction Initiatives

BRE Group's approach to environmental management covers several key areas such as energy and carbon, water, materials, travel, biodiversity, procurement and engagement.

The following environmental management measures and projects have been completed or implemented since the 2019-20 baseline. The carbon emission reduction achieved by these schemes is estimated to equate to **120 tCO_{2e}**, a **5%** reduction against the 2019-20 baseline and the measures are in effect.

- Sustainable building refurbishments through adapting existing spaces for new uses and maximising the reuse of our existing materials
- Boiler replacements
- LED lighting upgrades
- Insulation of unlagged pipework within plantrooms
- Monitoring and detection of water leaks and upgrades to waterless/highly water efficient devices

- Upgrades to metering systems and the addition of submeters for improved monitoring
- Increased segregation of waste and optimised the use of skips to reduce transport
- Composting green waste for on-site use and retaining deadwood in our woodlands
- Maintaining wildflower meadows, planting trees, and beekeeping
- Maintaining ISO14001 certification
- Maintaining zero avoidable waste to landfill
- Embedded the sustainable travel hierarchy in our travel and expenses policy
- Relunched our sustainability colleague network for awareness raising and to encourage colleague led reduction initiatives
- Joined Business in the Community (BITC) to further encourage and support collective action.

In the future we hope to implement further measures such as:

- Increase on-site renewable energy generation and/or low carbon technologies.
- Continue to gather data on our new ways of working (remote and flexi-hybrid contracts) to better understand travel patterns and building occupancy levels and implement the most effective energy conservation strategies.
- Further investigate our value chain to enhance our Scope 3 emissions reporting.
- Continue our sector collaborations such as the UK Built Environment Carbon Database (BECD) project that aims to become the main source of carbon estimating and benchmarking for the UK construction sector and a practical instrument to support the decarbonisation of the built environment.

Declaration and Sign Off

This Carbon Reduction Plan has been completed in accordance with PPN 06/21 and associated guidance and reporting standard for Carbon Reduction Plans.

Emissions have been reported and recorded in accordance with the published reporting standard for Carbon Reduction Plans and the GHG Reporting Protocol corporate standard¹ and uses the appropriate Government emission conversion factors for greenhouse gas company reporting².

Scope 1 and Scope 2 emissions have been reported in accordance with SECR requirements, and the required subset of Scope 3 emissions have been reported in accordance with the published reporting standard for Carbon Reduction Plans and the Corporate Value Chain (Scope 3) Standard³.

This Carbon Reduction Plan has been reviewed and signed off by the board of directors (or equivalent management body).

Signed on behalf of the Supplier:



Paul Kirkpatrick, CIDO & Executive Director of Estates
Date: 19th October 2023

¹ <https://ghgprotocol.org/corporate-standard>

² <https://www.gov.uk/government/collections/government-conversion-factors-for-company-reporting>

³ <https://ghgprotocol.org/standards/scope-3-standard>