



# ISO14064-1:2018 Qualifying Explanatory Statement



This document serves as the Qualifying Explanatory Statement (QES) from Brother Industries (U.K.) Ltd. It outlines the framework implemented to achieve carbon neutrality across Scopes 1 & 2 emissions.

The data presented has been independently verified by BSI Assurance UK Ltd, inline with the requirements of ISO14064-1:2018 Specification for the Organisational Quantification and Reporting of Greenhouse Gas Emissions and Removals.

For the period

**1<sup>st</sup> April 2025 to 31<sup>st</sup> March 2026.**

This report is publicly available on Brother Industries (U.K.) Ltd webpage  
[www.biuk.co.uk/policies](http://www.biuk.co.uk/policies).

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## Section 1

### Unified Declaration of Carbon Neutrality and Ongoing Commitment.

#### **Carbon Neutrality Self-Declaration (Scope 1 and Scope 2)**

Brother Industries (U.K.) Ltd declares carbon neutrality for its Scope 1 and Scope 2 greenhouse gas emissions at its Vauxhall Industrial Estate site, Ruabon, Wrexham, LL14 6HA.

This declaration is based on the quantification and verification of greenhouse gas emissions in accordance with ISO 14064-1:2018, using recognised methodologies and internally validated activity data. The associated dataset has been independently verified by BSI Assurance UK Ltd to a limited assurance level for the reporting period starting 1<sup>st</sup> April 2025 and ending 31<sup>st</sup> March 2026, with a materiality threshold of  $\pm 5\%$ .

Carbon neutrality has been achieved through the measurement, management, and balancing of Scope 1 and Scope 2 emissions. Residual emissions have been addressed in line with the organisation's carbon management strategy.

Brother Industries (U.K.) Ltd is committed to maintaining this carbon-neutral status (limited to Scope 1 and Scope 2 emissions) for the period 1 April 2026 to 31 March 2027, subject to ongoing monitoring, annual quantification, and continued verification of emissions performance.

This self-declaration is made in good faith and reflects the organisation's commitment to transparent and responsible greenhouse gas reporting.



Name: Craig McCubbin

Title: Managing Director

Company: BROTHER INDUSTRIES (U.K.) LTD

Date: 16<sup>th</sup> June 2026

## Section 2: Introduction & General Information

This publicly available document forms the Qualifying Explanatory Statement which demonstrates the Brother Industries (U.K.) Limited, has achieved carbon neutrality Scopes 1 & 2, for its single site based at Vauxhall Industrial Estate, Ruabon, Wrexham, LL14 6HA for the period commencing 1<sup>st</sup> April 2025, and ending March 31<sup>st</sup>, 2026.

This has been achieved by:-

- **CO<sub>2</sub>e Emission Reductions**, via managed plans implemented at the operational site.
- **Purchased Carbon Credits**, to offset market-based, plus optional emissions.

This report sets out the approach and results which substantiates the declaration that Brother Industries (U.K.) Ltd has achieved carbon neutrality (Scope 1 and Scope 2) and supports our commitment to maintain our carbon neutrality for the period starting 1<sup>st</sup> April 2025 and ending 31<sup>st</sup> March 2026, following the methodology set out in ISO 14064-1:2018. This report is publicly available on Brother Industries (U.K.) Ltd webpage [www.biuk.co.uk/policies](http://www.biuk.co.uk/policies).

### 2.1 Entity Making Declaration

Brother Industries (U.K.) Ltd.

Company No: 01888853

### 2.2 Subject of Declaration (Scopes 1 and 2)

Scope 1 and Scope 2 Market Based GHG emissions (expressed as tCO<sub>2</sub>e) attributed to Brother Industries (U.K.) Ltd. single operational manufacturing site, based at Vauxhall Industrial Estate, Ruabon, Wrexham, LL14 6HA. United Kingdom.

☐ Scope 3 emissions are assessed and disclosed; however, as high-quality data for Scope 3 emission categories is not readily available, so appropriate estimation calculation methods from the GHG Protocol are applied.

### 2.3 Description of Subject

Brother Industries (U.K.) Ltd was established in Wrexham in 1985. It is a wholly owned subsidiary of Brother Industries Ltd, of Nagoya, Japan.

Located in Wrexham, North Wales, Brother Industries (U.K.) Ltd is the Recycling Technology Centre for the Brother Group. The factory size is around 12,000m<sup>2</sup>, and sits on a site covering a total area of 41,700m<sup>2</sup>. Around 200 staff are employed, engaged in providing environmentally focussed manufacturing solutions to the Brother Group. The turnover of the site is approximately £50M.

We have embraced the Circular Economy as a profitable and sustainable business model, helping us to provide environmental solutions. We share our experience and knowledge throughout the company on a global scale. Along with our subsidiary in Slovakia, we have remanufactured millions of toner cartridges, and we ensure that no waste ends up in landfill.



Our dedicated in-house moulding division enables us to use recycled resins, and delivers precision injection moulding and assembly services to both internal and external clients.

Our core business areas include (but are not limited to):

- Remanufacturing of printer toner cartridges and inkjet cartridges
- Manufacture and refurbishment of consumer and industrial hardware devices.
- Packaging of inkjet cartridges.
- Plastic injection moulding and general assembly work.
- Providing innovative services to support our sales organisation.

## 2.4 Boundaries of the Subject

- The boundary is limited to Scope 1 and Scope 2 GHG emissions from this single operational site. ('fence-2-fence' approach).
- We will account for 100% of our Scope 1 and Scope 2 GHG emissions within our operational boundary. **(Operational control)**.
- Both location-based and market-based emissions will be reported.
- For transparency, other optional emissions will also be reported.
- Although we will disclose both location-based and market-based Scope 1 and Scope 2 emissions (in-line with best practice), we will offset only residual market-based emissions.
- Scope 3 emissions are assessed and disclosed; however, as high-quality data for Scope 3 emission categories is not readily available, so appropriate estimation calculation methods from the GHG Protocol are applied.

The defined boundary covers all Scope 1 and Scope 2 greenhouse gas emissions arising from the site's core operations and activities. This provides a true and fair representation of the organisation's Scope 1 and Scope 2 emissions. Scope 3 (other indirect, value chain) emissions are also disclosed to support a broader understanding of the organisation's overall impact.

## 2.5 Rationale for the Selection of the Subject Boundary

Brother Industries (U.K.) Ltd.'s mission is to achieve environmental excellence. In this context, we have embraced the ISO 14064-1:2018 as an internationally recognised, standardized, and transparent approach to quantify our own contribution to global warming effects.

The scope and subject were selected because they represent the operational control boundary (of Brother Industries (U.K.) Ltd, as defined by the UK Government Environmental Guidelines, including the Streamlined Energy and Carbon Reporting (SECR) Guidance.

**Our rationale is:-**

- The Scope 1 and 2 emissions reflect 100% of our “owned” core operational emissions, that our business has direct control over. This enables our business to have direct operational influence over the reduction of the emissions.
- The Scope 1 and 2 emissions associated with our direct business operations are metered, measured, and verified in accordance with SECR category guidance; Scope 1 (direct resource use), Scope 2 (purchased resources for use in our direct operations).
- Scope 3 emissions have been screened - High-quality data on Scope 3 emission categories are not readily available, hence appropriate calculation estimates have been selected from the GHG Protocol.
- Scope 3 (other indirect, value chain) emissions are also disclosed to support a broader understanding of the organisation’s overall impact.
- We recognise the importance of reducing carbon emissions throughout the entire value chain. Going forwards, (from FY2025) we have conducted Scope 3 screening to develop Scope 3 data collection and calculation methodologies. We will continually look for opportunities to reduce both our upstream and downstream emissions in the future.
- Brother Industries globally uses proprietary software to record consumption data and emissions for utilities and fuel usage.
- To allow for comparison over time, and comparison with other facilities, we have adopted an intensity ratio of tCO<sub>2</sub>e per £1M sales. This aligns with the Brother Group’s common global reporting systems.

**2.6 Type of Conformity Assessment:**

- Unified Self Declaration of Carbon Neutrality (for Scope 1 and Scope 2) and Ongoing Commitment.
- Independent third-party verification in accordance with ISO 14064-1:2018
- Assessed by BSI Assurance UK Ltd.

**2.7 Baseline date for ISO 14064-1:2018 Verification:**

**Scope 1 and Scope 2 Baseline Date**

- The baseline date is 1<sup>st</sup> April 2021 to 31<sup>st</sup> March 2022.
- The achievement period is 1<sup>st</sup> April 2025 to 31<sup>st</sup> March 2026.
- The commitment period is 1<sup>st</sup> April 2026 to 31<sup>st</sup> March 2027.

**Scope 3 Baseline Date**

- The baseline date is 1<sup>st</sup> April 2025 to 31<sup>st</sup> March 2026.
- The achievement period is 1<sup>st</sup> April 2025 to 31<sup>st</sup> March 2026.
- The commitment period is 1<sup>st</sup> April 2026 to 31<sup>st</sup> March 2027.

Going forwards, we will continue to demonstrate our commitment to carbon neutrality. PAS2060:2014 has now been retired – We have transitioned to ISO 14064-1:2018 quantification and verification process. We will update the QES to reflect changes and actions that could affect the validity of the declaration of commitment to carbon neutrality.

As set out in S5 of The GHG Protocol, <https://ghgprotocol.org/corporate-standard> the following cases may trigger a recalculation of the base year emissions and any future emissions:-

- Structural changes that have a significant impact on the emissions.
- Mergers, acquisitions, and divestments.
- Outsourcing or insourcing of emitting activities.
- Changes in calculation methodology or improvements in the accuracy of emission factors or activity data that result in significant impacts on the base years data.
- Discovery of significant errors, or several cumulative errors, that are significant.

This approach shall apply in a consistent manner. For example, the emissions shall be recalculated for both cases, of emissions increasing or decreasing.

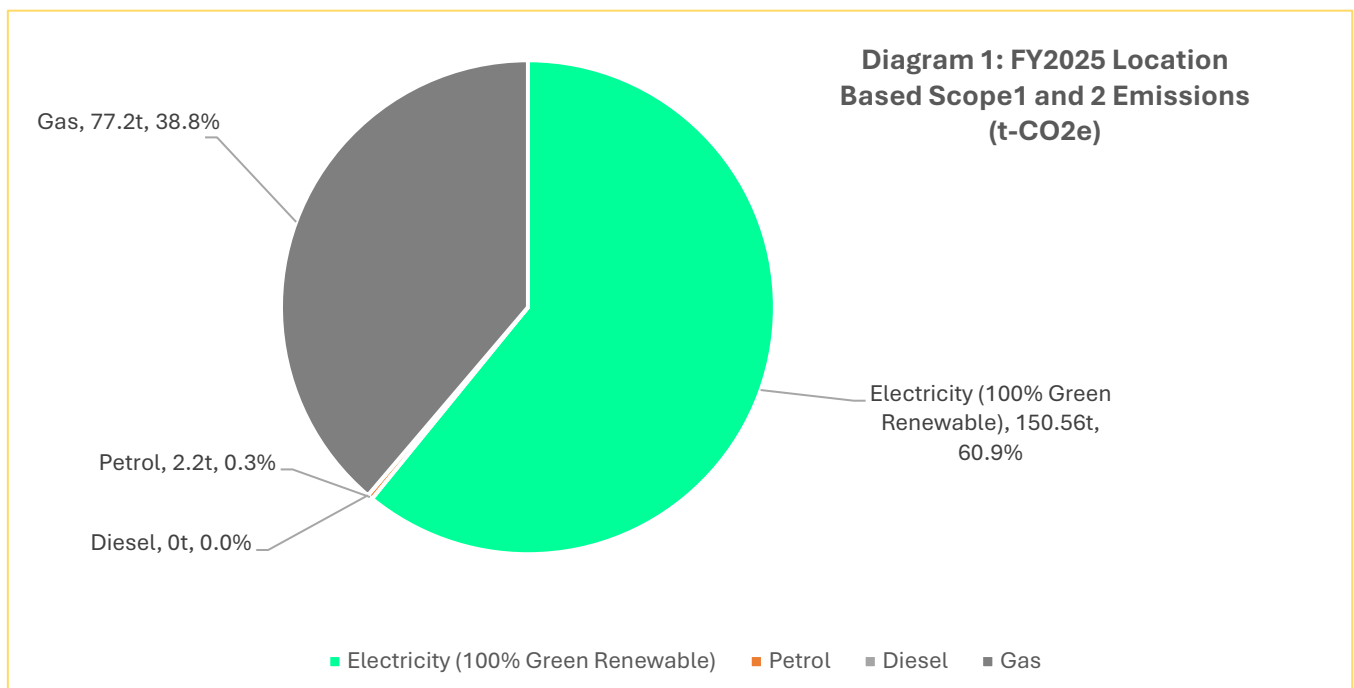
## 2.8 Individuals responsible for the provision and evaluation of data to make the declaration.

- Mr. Julian Cooper, Manager of Technical, Environmental, Quality Departments.
- Mr. Paul Roberts, Environmental Compliance Officer.

## Section 3: Calculation Approach

### 3.1 Emission Results Summary

- Brother Industries (U.K.) Ltd GHG Inventory.
- For the period 1<sup>st</sup> April 2025 to 31<sup>st</sup> March 2026.



| <b>Table 1 - Emission Results Summary</b>                                  | <b>FY2021</b>                | <b>FY2022</b>                | <b>FY2023</b>                | <b>FY2024</b>                | <b>FY2025</b>                 |
|----------------------------------------------------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|-------------------------------|
| <b>Scope 1 (Mandatory)</b>                                                 |                              |                              |                              |                              |                               |
| Petrol from Company Owned Vehicles                                         | 3.0tCO <sub>2</sub> e        | 3.5tCO <sub>2</sub> e        | 2.6tCO <sub>2</sub> e        | 2.2tCO <sub>2</sub> e        | 0.9tCO <sub>2</sub> e         |
| Diesel from Company Owned Vehicles                                         | 0.3tCO <sub>2</sub> e        | 0.2tCO <sub>2</sub> e        | 0.0tCO <sub>2</sub> e        | 0.0tCO <sub>2</sub> e        | 0.0tCO <sub>2</sub> e         |
| Natural Gas                                                                | 124.7tCO <sub>2</sub> e      | 101.4tCO <sub>2</sub> e      | 113.8tCO <sub>2</sub> e      | 106.8tCO <sub>2</sub> e      | 76.3tCO <sub>2</sub> e        |
| Refrigerant Losses                                                         | 0.0tCO <sub>2</sub> e        | 0.0tCO <sub>2</sub> e        | 0.0tCO <sub>2</sub> e        | 0.0tCO <sub>2</sub> e        | 0.0tCO <sub>2</sub> e         |
| <b>Total Market Based Emissions Scope 1</b>                                | <b>127.9tCO<sub>2</sub>e</b> | <b>105.1tCO<sub>2</sub>e</b> | <b>116.4tCO<sub>2</sub>e</b> | <b>108.8tCO<sub>2</sub>e</b> | <b>77.2tCO<sub>2</sub>e</b>   |
| <b>Scope 2 (Mandatory)</b>                                                 |                              |                              |                              |                              |                               |
| Electricity (Location Based)                                               | 290.7tCO <sub>2</sub> e      | 258.6tCO <sub>2</sub> e      | 202.6tCO <sub>2</sub> e      | 187.8tCO <sub>2</sub> e      | 150.6tCO <sub>2</sub> e       |
| Credited by purchasing 100% REGO certified renewable electricity.          | 290.7tCO <sub>2</sub> e      | 258.6tCO <sub>2</sub> e      | 202.6tCO <sub>2</sub> e      | 187.8tCO <sub>2</sub> e      | 150.6tCO <sub>2</sub> e       |
| <b>Electricity (Market Based)</b>                                          | <b>0.0tCO<sub>2</sub>e</b>   | <b>0.0tCO<sub>2</sub>e</b>   | <b>0.0tCO<sub>2</sub>e</b>   | <b>0.0tCO<sub>2</sub>e</b>   | <b>0.0tCO<sub>2</sub>e</b>    |
| Steam                                                                      | 0.0tCO <sub>2</sub> e        | 0.0tCO <sub>2</sub> e        | 0.0tCO <sub>2</sub> e        | 0.0tCO <sub>2</sub> e        | 0.0tCO <sub>2</sub> e         |
| F-gas                                                                      | 0.0tCO <sub>2</sub> e        | 0.0tCO <sub>2</sub> e        | 0.0tCO <sub>2</sub> e        | 0.0tCO <sub>2</sub> e        | 0.0tCO <sub>2</sub> e         |
| <b>Total Market Based Emissions Scope 2</b>                                | <b>0.0tCO<sub>2</sub>e</b>   | <b>0.0tCO<sub>2</sub>e</b>   | <b>0.0tCO<sub>2</sub>e</b>   | <b>0.0tCO<sub>2</sub>e</b>   | <b>0.0tCO<sub>2</sub>e</b>    |
| <b>Gross Mandatory Market Based Emissions</b>                              |                              |                              |                              |                              |                               |
| <b>Total Scope 1 &amp; 2 Market Based Emissions</b>                        | <b>127.9tCO<sub>2</sub>e</b> | <b>105.1tCO<sub>2</sub>e</b> | <b>116.4tCO<sub>2</sub>e</b> | <b>108.8tCO<sub>2</sub>e</b> | <b>77.2tCO<sub>2</sub>e</b>   |
| <b>Sales Value</b>                                                         | <b>£31,930,210</b>           | <b>£31,718,933</b>           | <b>£29,728,465</b>           | <b>£26,365,022</b>           | <b>£24,499,500</b>            |
| <b>Organisation Growth Rate</b>                                            |                              | -0.7%                        | -6.3%                        | -11.3%                       | -7.1%                         |
| <b>Intensity Value (tCO<sub>2</sub>e per £1,000,000 of sales turnover)</b> | 4.0tCO <sub>2</sub> e        | 3.3tCO <sub>2</sub> e        | 3.9tCO <sub>2</sub> e        | 4.13tCO <sub>2</sub> e       | 3.91tCO <sub>2</sub> e        |
| <b>Intensity Percentage Reduction</b>                                      |                              | -17.5%                       | +17.5%                       | +5.9%                        | -5.3%                         |
| <b>Scope 3</b>                                                             |                              |                              |                              |                              | <b>FY2025</b>                 |
| Purchased goods and services C1                                            | No Data Available            |                              |                              |                              | 10565.0 tCO <sub>2</sub> e    |
| Capital goods C2                                                           |                              |                              |                              |                              | 324.4 tCO <sub>2</sub> e      |
| Fuel and energy related activities not included in Scope 1 or 2 C3         |                              |                              |                              |                              | 31.6 tCO <sub>2</sub> e       |
| Transportation and delivery (upstream) C4                                  |                              |                              |                              |                              | 1279.2 tCO <sub>2</sub> e     |
| Waste generated in operations C5                                           |                              |                              |                              |                              | 1.2 tCO <sub>2</sub> e        |
| Business travel C6                                                         |                              |                              |                              |                              | 80.7 tCO <sub>2</sub> e       |
| Employee Commuting C7                                                      |                              |                              |                              |                              | 83.3 tCO <sub>2</sub> e       |
| Leased assets (upstream) C8                                                |                              |                              |                              |                              | Not Applicable                |
| Transportation & Delivery (downstream) C9                                  |                              |                              |                              |                              | 19.2 tCO <sub>2</sub> e       |
| Processing of Sold Products C10                                            |                              |                              |                              |                              | Not Applicable                |
| Use of Sold Products C11                                                   |                              |                              |                              |                              | Not Applicable                |
| End-of-life treatment of sold products C12                                 |                              |                              |                              |                              | 3310.8 tCO <sub>2</sub> e     |
| Leased assets (downstream) C13                                             |                              |                              |                              |                              | Not Applicable                |
| Franchises C14                                                             |                              |                              |                              |                              | Not Applicable                |
| Investments C15                                                            |                              |                              |                              |                              | Not Applicable                |
| <b>Total Scope 3 Emissions</b>                                             |                              |                              |                              |                              | <b>15695 tCO<sub>2</sub>e</b> |
| <b>Total Market Based emissions</b>                                        |                              |                              |                              |                              | <b>15773 tCO<sub>2</sub>e</b> |
| <b>Total Location Based Emissions</b>                                      |                              |                              |                              |                              | <b>15924 tCO<sub>2</sub>e</b> |



## Composition of Scope 1 and Scope 2 Emissions (for FY2025)

| <i>FY2025</i>                       | <i>t-CO<sub>2</sub>e</i>  | <i>t-CO<sub>2</sub><br/>Carbon<br/>Dioxide</i> | <i>t-CH<sub>4</sub><br/>Methane</i> | <i>t-N<sub>2</sub>O<br/>Nitrous<br/>Oxide</i> | <i>Others</i> |
|-------------------------------------|---------------------------|------------------------------------------------|-------------------------------------|-----------------------------------------------|---------------|
| <b>Scope 1 and 2 Location Based</b> | 227.7 t-CO <sub>2</sub> e | 225.6 t-CO <sub>2</sub>                        | 0.88 t-CH <sub>4</sub>              | 1.08 t-N <sub>2</sub> O                       | 0.00 t        |
| <b>Scope 1 and 2 Market Based</b>   | 77.2 t-CO <sub>2</sub> e  | 76.0 t-CO <sub>2</sub>                         | 0.12 t-CH <sub>4</sub>              | 0.04 t-N <sub>2</sub> O                       | 0.00 t        |

Our absolute Scope 1 and 2 Market-Based emissions have decreased, and the emissions intensity (measured in tCO<sub>2</sub>e per £M turnover) has also decreased slightly, (by 5%).

To explore this; it's important to note that our Scope 1 and 2 Market-Based emissions are primarily driven by gas consumption. Approximately 95% of this gas is used to heat the factory, with the remaining 5% attributed to the canteen. Maintaining a comfortable working temperature in the factory is essential for the wellbeing of our colleagues, regardless of staffing levels or turnover.

We have implemented several measures to improve the efficiency of our gas heating system, such as installing a heating management system and turning off the heating one hour before the end of the working day. However, these efforts have also coincided with a reduction in sales turnover.

### 3.2 Methodology

The Greenhouse Gas (GHG) emissions are calculated in accordance with the methodologies set out in the World Resources Institute's GHG Protocol Corporate Standard <https://ghgprotocol.org/corporate-standard> and Scope 2 Guidance (amendment to the GHG Protocol Corporate Standard, 2015). [https://ghgprotocol.org/scope\\_2\\_guidance](https://ghgprotocol.org/scope_2_guidance). This is the most widely recognised and used accounting platform for corporate GHG reporting programs globally. It enables us to report and compare our performance with other sites in a standardized and transparent way. The methodology has been applied in line with the requirements of PAS 2060:2014.

Seven Types of greenhouse gases (GHGs) are included in the Kyoto Protocol and are covered in the calculations;

- Carbon Dioxide (CO<sub>2</sub>)
- Methane (CH<sub>4</sub>)
- Nitrous Oxide (N<sub>2</sub>O)
- Hydrofluorocarbons (HFCs)
- Perfluorocarbons (PFCs)
- Sulphur Hexafluoride (SF<sub>6</sub>)
- Nitrogen Trifluoride (NF<sub>3</sub>)

The Global Warming Potential of each gas is obtained from the IPCC Assessment Report 5 (2014).

**All Scope 1 and 2 GHG emissions** that are within the boundary, are quantified and included. The latest UK Government Conversion Factors (dated 8<sup>th</sup> July, 2025) issued by Department for Energy Security & Net Zero (DESNZ) and Department for Environment, Food & Rural Affairs (DEFRA). [Greenhouse gas reporting: conversion factors 2025 - GOV.UK](#) have been applied. The total gross emissions are measured in metric tons of carbon dioxide equivalents (tCO<sub>2</sub>e).

**F-gases** - Within the subject boundary F-gases are used within refrigeration, cooling, and air-conditioning units. All units are recorded, and serviced by a third-party company, in accordance with the UK F-Gas Regulations. Within the reporting year, no fugitive emissions (leaks) have been recorded, and none of the units have been topped up. As operations change then the data will be reported accordingly.

Under the **Kigali Amendment**, countries have committed to reduce the production & usage of HFC's by 85% by 2050. To reduce the environmental impact of our products, the Brother Group has systematically phased out the usage of HFCs, by evaluating and replacing them with HFEs. HFEs are not included within the Kyoto Protocol, due to their short atmospheric lifetimes.

**The environmental impact of Hydrofluoroethers (HFE)** – HFEs are a class of non-ozone depleting chemicals, developed to replace CFCs, HFCs, HCFCs and PFCs. Due to their high molecular weights, HFEs remain in the atmosphere for less than two weeks, before sinking and being absorbed into the ground. Although HFEs emit greenhouse gases, they are not included within the Kyoto Protocol, due to their short atmospheric lifetimes and low ozone depletion potential.

**Product Remanufacturing:** Every year the Brother Group remanufactures millions of products. Based on Brother Group's proprietary life-cycle analysis; last year over 4500tCO<sub>2</sub>e were saved by Brother Group's global toner cartridge remanufacturing activities. The analysis further shows that GHG savings associated with “giving products a second life”, is significant when compared to the GHG emissions of the materials used in the remanufacturing processes. Over 1,100tonnes of waste is also diverted from landfill.

### 3.3 Calculation Approach

Scope 1 and 2 emissions have been calculated from data collected directly within the entity boundary. Where possible, the latest UK Government [Greenhouse gas reporting: conversion factors 2025 - GOV.UK](#), by the Department for Energy Security & Net Zero (DESNZ) and Department for Environment, Food & Rural Affairs (DEFRA) have been applied. To assure the accuracy of data, and to minimise any interim calculation errors, we have chosen to utilise direct meter readings where possible. Where GHG emission estimates are made, this is done in a manner that precludes underestimation.

**Meter readings are used as the primary source of data** - Utilities consumption (electricity, gas and water) is metered, and meter readings are taken directly, on or around the first working day of each month. (The actual meter reading dates are recorded). This data is used directly for our internal and external calculation and reporting systems.

**Utility bills are references to validate the data.** If any significant differences occur, then the data can be reconfirmed and corrected if necessary.

**Emissions from company vehicles (Petrol)** are derived from the data obtained from the monthly fuel card charges (invoices), supplied by the fuel card company.

**Data for calculating emissions of production materials is taken from internal usage data (Production records)** for each of the specific manufacturing materials (specialist lubricants, and solvents). The Safety Data Sheets (and manufacturers supporting documentation) quantifies the Global Warming Potential of the materials.

**F-gases** – All refrigeration, cooling, and air-conditioning units, within the subject boundary, are logged. They are serviced by a third-party company, in accordance with the UK F-Gas Regulations, and both service and maintenance records are retained. Any F-gas emissions related to “topping up”, degassing or decommissioning of equipment are clearly recorded.

All **financial data** used (for example, that used to calculate the intensity ratio) has been independently audited by Deloitte LLP.

### **Data Set - Inclusions and Exclusions**

Within the subject boundary, no intentional exclusions to Scope 1 and 2 data have been made.

|         |                                                                                                                                                                                                                                                                                                                                                                           |
|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Scope 1 | <p>Included.</p> <ul style="list-style-type: none"><li>▪ Direct emissions from the combustion of fuels.</li><li>▪ Emissions from the combustion of fuels in vehicles owned.</li><li>▪ Fugitive emissions from refrigeration, cooling, and air-conditioning units.</li></ul> <p>Excluded.</p> <ul style="list-style-type: none"><li>▪ No intentional exclusions.</li></ul> |
| Scope 2 | <p>Included.</p> <ul style="list-style-type: none"><li>▪ Purchased electricity.</li></ul> <p>Excluded.</p> <ul style="list-style-type: none"><li>▪ No intentional exclusions.</li></ul>                                                                                                                                                                                   |
| Scope 3 | <p>Estimated.</p> <ul style="list-style-type: none"><li>▪ Scope 3 emissions have been estimated due to the limited availability of high-quality data for these categories. Appropriate quantification and calculation methods have been applied in accordance with the GHG Protocol.</li></ul>                                                                            |

| ID | Scope 3 – Category Breakout                                                    | Calculation Approach                                                                                                                    |
|----|--------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| 1  | <i>Purchased Goods and Services.</i>                                           | Spend based estimation.                                                                                                                 |
| 2  | <i>Capital Goods.</i>                                                          | Spend based estimation.                                                                                                                 |
| 3  | <i>Fuel- and Energy-Related Activities Not Included in Scope 1 or Scope 2.</i> | Transmission and Calculation losses are calculated based upon actual consumption.                                                       |
| 4  | <i>Upstream Transportation and Distribution.</i>                               | Spend based estimation.                                                                                                                 |
| 5  | <i>Waste Generated in Operations.</i>                                          | Calculated based upon weight of waste generated, and related emission factors.                                                          |
| 6  | <i>Business Travel.</i>                                                        | Calculated based upon mode of transport x distance travelled, and number of hotels days.                                                |
| 7  | <i>Employee Commuting.</i>                                                     | Calculated based upon mode of transport x distance travelled to and from place of work.                                                 |
| 8  | <i>Upstream Leased Assets.</i>                                                 | Not applicable. (No upstream leased assets).                                                                                            |
| 9  | <i>Downstream Transport and Distribution.</i>                                  | Spend based estimation.                                                                                                                 |
| 10 | <i>Processing of Sold Products.</i>                                            | Not applicable – After being sold, our products are not processed by any other third party.                                             |
| 11 | <i>Use of Sold Products.</i>                                                   | Not Applicable – Printing consumable products do not consume energy.                                                                    |
| 12 | <i>End-of-Life Treatment of Sold Products.</i>                                 | No high-quality data currently available. Generic estimates are provided based on the number of consumables sold into the market place. |
| 13 | <i>Downstream Leased Assets.</i>                                               | Not applicable – This organisation has no downstream leased assets.                                                                     |
| 14 | <i>Franchises.</i>                                                             | Not applicable. (No franchises).                                                                                                        |
| 15 | <i>Investments.</i>                                                            | Not applicable. (No Investments).                                                                                                       |

### 3.5 Data Quality & Confidence ('Uncertainty Assessment')

#### Uncertainty Assessment

An assessment of uncertainty has been conducted in accordance with ISO 14064-1 principles to evaluate the reliability of quantified greenhouse gas (GHG) emissions for Scope 1 and Scope 2 and Scope 3 emission sources.

#### Scope 1 and Scope 2

There is a **high confidence level** (low uncertainty) in the accuracy of Scope 1 and 2 emissions data because:

- **This facility is relatively small** - with a small fleet of company vehicles. Accordingly, the process of monitoring the consumption of GHG emissions is relatively efficient.
- **Direct Meter Readings** - Over 95% of the data covering Scope 1 and 2 GHG emissions have been obtained by direct metering of energy, or from fuel bills (corresponding to fuel consumption), or from manufacturers data, and by monitoring of material usage.
- **Emission Factors** - The latest UK Government National (or International) emission factors have been applied. These are nationally recognized standard factors.

- **Software Package** - The primary data (meter readings or consumption data) are entered onto a companywide proprietary global software package. The data set is validated by the site manager and digitally approved, prior to assurance of the data by any external third party.
- **All financial data** - Is independently audited by Deloitte LLP.
- **Verification** - The methodology and dataset have been independently audited and validated by BSI Assurance UK Ltd

### Scope 3 Uncertainty Assessment

Scope 3 greenhouse gas (GHG) emissions are considered to have a **higher level of uncertainty (a lower confidence level)** than Scope 1 and Scope 2 emissions.

In many instances, primary supplier data is either limited or unavailable, necessitating the use of secondary data sources, proxy data, and assumptions, all of which contribute to variability in the results. The reported Scope 3 emissions have been calculated using estimation methodologies aligned with the Greenhouse Gas Protocol Corporate Value Chain (Scope 3) Standard.

Key sources of uncertainty include, but are not limited to:

- **Categories C1, C2, C4:** Supplier-specific data is not available; therefore, emissions have been estimated using spend-based calculation methodologies.
- **Category C5:** Waste is physically weighed; however, many waste streams consist of mixed materials. These are classified according to the dominant material type, introducing a degree of estimation.
- **Category C6:** Travel distances have been estimated, and there is inherent variability in emission factors, including their geographic and temporal relevance.
- **Category C7:** Employee commuting data is based on survey responses. Not all employees participated, and working patterns vary, therefore results have been modelled to provide overall estimates.
- **Category C12:** There is uncertainty regarding how customers use and dispose of products; as a result, end-of-life treatment scenarios have been modelled.
- **General:** Proxy data has been applied where supplier-specific information is unavailable.

As data quality and availability improves—particularly through enhanced data collection processes—these estimates may be refined in future reporting periods. The organisation remains committed to improving the accuracy, transparency, and completeness of its Scope 3 emissions reporting by progressively increasing the use of primary data.

**Overall Uncertainty Level** – The calculated carbon footprint represents the organisation’s best estimate, based on available internal data and established calculation methodologies. Reported emissions may vary over time due to changes in manufacturing processes and

production volumes. The GHG inventory is considered fit for its intended purpose and provides a fair and representative account of emissions, with no material misstatements.

**Level of Assurance** – The GHG inventory will be independently verified by a third-party organisation, to a limited assurance level, providing a moderate degree of confidence. Under this level of assurance, the verifier expresses a conclusion that; ‘nothing has come to their attention to indicate that the GHG statement is materially misstated.’

**Materiality Level:** A typical threshold level of  $\pm 5\%$  of total reported GHG emissions (tCO<sub>2</sub>e) will be applied.

## Section 4: Carbon Management Plan

### 4.1 Background

The Brother Group has a global Environmental Vision 2050 in which the medium term (FY2030) and longer-term vision (FY2050) is described.



**Table 2 – Brother Group Environmental Vision 2050.**

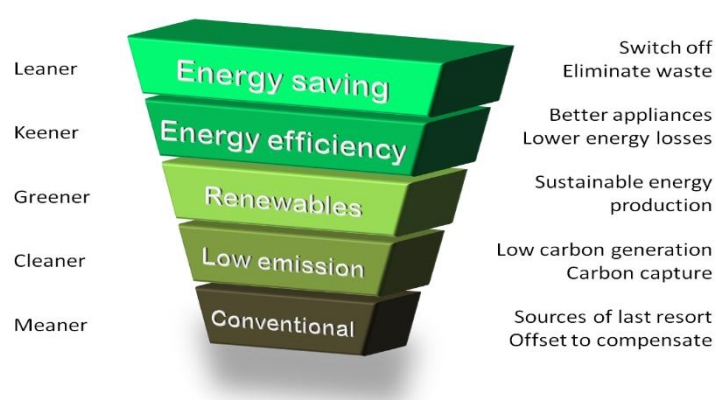
|                                                  | Medium Term Targets FY2030                                                                                                                                                                                                                                                                                                                                                                                            | Environmental Visions 2050                                                                                                                                                                                                  |
|--------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Reduction of CO<sub>2</sub>e emissions</b>    | <ul style="list-style-type: none"> <li>[Scope 1 and 2]<br/>Achieve 65% reduction from FY2015 level.</li> <li>[Scope 3 (categories 1,11 and 12)]<br/>Achieve 28.5% reduction from FY2022 level.</li> </ul>                                                                                                                                                                                                             | <ul style="list-style-type: none"> <li>Aim to achieve carbon neutrality in all business operations and minimise GHG emissions from the entire value chain, to contribute towards creating a carbon-free society.</li> </ul> |
| <b>Resource Circulation (“Circular Economy”)</b> | <ul style="list-style-type: none"> <li>Achieve a 25% reduction in the usage rate of virgin materials by FY2030 by utilising recycled materials and expanding the Circular Economy business model.</li> <li>The group’s manufacturing facilities to continuously endeavour to ensure the efficient use of water resources.</li> </ul>                                                                                  | <ul style="list-style-type: none"> <li>Maximise resource circulation to use resources in a sustainable way, and minimise the environmental impact caused by waste.</li> </ul>                                               |
| <b>Biodiversity Conservation</b>                 | <ul style="list-style-type: none"> <li>Assess the environmental impact of our business operations on the ecosystem and the effectiveness of restoration and conservation activities, and work to avoid and reduce the environmental impacts on the ecosystem.</li> <li>The manufacturing and sales facilities of the entire group work on ecosystem restoration and conservation activities on a voluntary</li> </ul> | <ul style="list-style-type: none"> <li>Minimize the environmental impact of business operations and promote activities to restore and conserve the ecosystem beyond the impact.</li> </ul>                                  |

|  |                                                  |  |
|--|--------------------------------------------------|--|
|  | basis depending on the situation in each region. |  |
|--|--------------------------------------------------|--|

To help convert the global vision into a local reality, a local Action Plan is created, focussing on the emission reduction priorities described in the below Hierarchy of Energy Conservation and Reduction.

Ultimately, the vision is to become carbon neutral by 2050. Currently, the largest proportion of our Scope 1 emissions are attributable to Natural Gas (76.3 tCO<sub>2</sub>e). To approach zero Scope 1, 2 emissions by 2050, we must reduce our gas consumption (76.3tCO<sub>2</sub>e) to zero, over the next 25 years. We must achieve emission reductions of 4.1% per annum.

The Carbon Management Plan considers a period (from FY2022 to FY2028) with an Action Plan to reduce emissions by at least 5% each year.



**Diagram 2 – Hierarchy of Energy Conservation and Reduction**

## 4.2 Planned Emission Reduction Projects

The progress will be reported to the management team within the Monthly Management KPI Meeting. We will review whether the actual results are aligned to the planned results, and to review the effectiveness of the deployment plan.

Where significant deviations from the plan do occur then corrective actions will be taken to:-  
i) minimise further slippage from the plan, ii) recover the plan, iii) identify and implement other corrective measures.

| Project 1  | Energy Transition and Solar Panel Initiative                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Renewables | <p>In FY2020, our site transitioned to a new electricity supplier, ensuring the use of 100% REGO-certified renewable energy. By FY2022, we initiated a move toward on-site power generation, investing approximately £340,000 across three years. This strategy aimed to produce roughly 30% of our total electricity consumption through self-generation.</p> <p>By the end of FY2022, we had completed installing our first rooftop solar panel array. The system went live at the beginning of FY2023. On sunny days,</p> |



|  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <p>the array—featuring 1,208 panels—can generate up to 450 kWh of electricity, meeting approximately 30% of the site’s total energy demand.</p> <p>Looking towards FY2025, we are exploring two strategic options to further strengthen our energy self-generation capabilities:</p> <p><b>Option 1:</b> Scale up our solar panel array to boost electricity production.</p> <p><b>Option 2:</b> Implement battery storage solutions to maximize the efficiency and utilization of generated energy.</p> <p>These initiatives aim to reduce our dependence on carbon-free electricity from the National Grid, curb exposure to rising energy costs, and improve overall energy security and operational resilience.</p> |
|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
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| <b>Project 2</b>  | <b>Phased Introduction of LED Lighting</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Energy Efficiency | <p>In addition to lowering energy consumption and CO<sub>2</sub>e emissions, the adoption of LED lighting has delivered several operational benefits—including brighter, whiter illumination in production areas that enhances inspection accuracy and safety. The longer lifespan of LED fixtures also contributes to reduced maintenance costs. A phased expansion of LED lighting has taken place across the site.</p> <p><b>Main Office:</b> In FY2022, fifty-two (52) conventional triple tube fluorescent fixtures were replaced with LED alternatives across office areas.</p> <p><b>Injection Moulding Production Area:</b> Thirty-one (31) LED high bay industrial fixtures were installed in FY2022. These are configured for optimal light distribution and each fixture is fitted with a motion sensor to enable automatic dimming, shut-off, and reactivation upon detecting movement.</p> <p><b>Main Production Area:</b> Later in FY2022, seventy-nine (79) additional LED high bay fixtures were deployed, each equipped with motion sensors for energy-efficient operation.</p> <p><b>Warehouse Area:</b> During FY2023/24, the LED lighting system was extended to include the warehouse, with approximately fifty (50) motion-sensor-equipped high bay industrial fixtures installed.</p> |

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
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| <b>Project 3</b>  | <b>Factory Voltage Optimisers</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Energy Efficiency | <p>With the UK facing record-high energy costs, voltage optimisation technology presents a strategic solution for improving energy efficiency, reducing CO<sub>2</sub>e emissions, and lowering operating expenses.</p> <p>A voltage optimiser is a power control device installed between the mains supply and onsite equipment. It works by electronically regulating and reducing voltage levels to cut energy consumption, minimise power demand, and decrease reactive power usage.</p> |



|  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
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|  | <p>Preliminary estimates suggest a potential electricity savings of 5–8%, equating to an annual CO<sub>2</sub>e reduction of approximately 15–23 tonnes.</p> <p><b>FY2022:</b> The initial plan called for three (3) voltage optimisers to be installed. However, due to installation challenges, only one (1) device was commissioned during the year.</p> <p><b>FY2023:</b> The remaining two (2) devices were successfully installed in summer 2023 and are now fully operational.</p> |
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|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
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| <b>Project 4</b> | <b>Extending Asset Life and Improving Efficiency</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Energy Saving    | <p>To reduce emissions and operating costs, we're extending the lifespan of assets and prioritising energy-efficient replacements:</p> <ul style="list-style-type: none"> <li>▪ <b>Laptops:</b> There are approximately one hundred (100) laptops in use on this site. The average CO<sub>2</sub>e emissions during the production of a new laptop is 330KgCO<sub>2</sub>e. We've extended the replacement cycle from 3 to 4 years.</li> <li>▪ <b>Phone System:</b> Physical telephones are being replaced by an online application, reducing the need to purchase new devices and related infrastructure.</li> <li>▪ <b>Mobile Phones:</b> The production and usage of a brand-new smartphone generates an around 85 kilograms in emissions in its first year of use. There are approximately 60 mobile devices onsite. Extending the lifecycle of mobile devices from 2-years to 3-years, will significantly cut emissions.</li> <li>▪ <b>Company Vehicles:</b> In FY2023, we reduced our fleet from three to two vehicles, retiring the last diesel car. The current fleet includes one petrol/hybrid and one fully electric vehicle, with lease terms extended from 3 to 4 years.</li> <li>▪ <b>Production Equipment:</b> We are progressively replacing older hydraulic injection moulding machines with advanced all-electric models. These newer machines offer a 30–35% improvement in energy efficiency, contributing to a reduction in CO<sub>2</sub> emissions across our production processes.</li> </ul> |

|                  |                                                                                                                                                                                                                                                                                                                                                                                                                       |
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| <b>Project 5</b> | <b>Reducing Energy Wastage - Turn down, Switch off Campaign.</b>                                                                                                                                                                                                                                                                                                                                                      |
| Energy Saving    | <p>As a talent minded organisation, we believe it is important to engage with all staff in inclusive ways, so that all staff members can contribute in a positive way to the overall project. <i>Individually it is difficult to make a difference, but together we can bring about positive change.</i> These changes may be empirical; however, they create a climate of awareness, and continuous improvement.</p> |

|  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <ul style="list-style-type: none"> <li>• <b>Conserve energy by reducing wasteful behaviour</b> – We continuously encourage staff to switch off equipment, and lighting, when not in use or at the end of each working day. Three (3) “Energy marshals” have volunteered to help us ensure that equipment is powered down when not used.</li> <li>• <b>Closing doors to prevent draughts</b> – Staff are encouraged to close doors to rooms that are used the most, to help conserve heat, and to reduce draughts. Automated doors have also been installed in the main office.</li> <li>• <b>Airlock Door (FY2023)</b> - Two doors arranged in an airlock configuration are being installed in the warehouse loading bay. While not airtight, the double doors minimize the loss of heated air from the building.</li> <li>• <b>Improved insulation</b> – Most windows of the site are already double glazed. In FY2023, twelve (12) windows have been changed from single glazed to double glazed units, to help reduce draughts and conserve heat.</li> <li>• <b>Virtual ways of doing business that decrease the need to travel</b> - The number of overseas in-person business meetings has reduced (driven by the experiences learned during the COVID-19 pandemic, and the increased use of online meeting applications). This will contribute to a reduction of our emissions, and our operating costs.</li> </ul> |
|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Project 6</b> | <b>“Move away from the burning of fossil Fuels”.</b><br><b>Natural Gas Emissions Overview</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Visionary        | <p>A total of <b>106.6 tCO<sub>2</sub>e</b> of our emissions are attributed to the combustion of natural gas. Of this, approximately <b>95% (101tCO<sub>2</sub>e)</b> results directly from factory heating during the winter months. The remaining <b>5% (6tCO<sub>2</sub>e)</b> is associated with the use of gas cookers in the canteen.</p> <p><b>Vision: Transitioning Away from Fossil Fuels</b><br/> We are committed to reducing our reliance on fossil fuels. Our long-term vision is to transition away from natural gas by investing in alternative technologies for factory heating, replacing the current banks of gas-fired heaters.</p> <p><b>Current Status and Challenges</b><br/> At present, the available alternatives are prohibitively expensive. Therefore, we will continue to operate the existing gas-fired radiant heaters in the short term. However, we are actively implementing measures to improve efficiency and reduce emissions.</p> <p><b>Efficiency Initiatives in FY2024</b><br/> In FY2024, we installed an advanced <b>Gas Heating Energy Management System</b> to enhance control over factory heating. This system is designed to optimize energy use and reduce waste.</p> <p><b>Industrial Heating Controls: Cost &amp; Carbon Reduction with ROI</b><br/> Our intelligent Energy Management System will improve the performance of heating systems, particularly warm air blowers and radiant tubes units. It will allow temperatures to be monitored and controlled, minimizing energy consumption. On</p> |

average, this system is expected to deliver a **25% reduction in kWh usage**, offering both environmental and financial benefits.

We are working to increase production volumes and sales compared to the baseline year. While certain emissions—such as those from factory heating—are fixed, others vary with production activity. By improving energy efficiency and growing turnover, we aim to enhance our emissions intensity ratio, as only variable emissions will rise in line with output.

This initiative will be supported by staff education and engagement through the 5R approach. This strategy promotes energy conservation by curbing wasteful behaviours and empowers employees to actively contribute to the company’s sustainability goals—fostering a culture of shared responsibility and positive impact.



- Historical reductions will not be considered.

### 4.3 Planned Emission Reductions

Planned emission reductions from the implementation of the above projects are set out below.

|                   |                                                                                                                                          |                                                                                                                                      |                            |                    |                 |                    | Projected Annual Consumption |        |        |        |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|----------------------------|--------------------|-----------------|--------------------|------------------------------|--------|--------|--------|
|                   | Reduction Project                                                                                                                        | Assumptions                                                                                                                          | Emission Target            | Measurement Unit   | Emission Factor | FY2021 Consumption | FY2025                       | FY2026 | FY2027 | FY2028 |
| Energy Saving     | Factory Wide Energy Saving (Electricity)                                                                                                 | Staff Engagement<br>Target Reduction<br>1% year-on-year                                                                              | Location based electricity | MWh                | 0.21233         | 1369               | 1315                         | 1302   | 1289   | 1276   |
|                   |                                                                                                                                          |                                                                                                                                      |                            | tCO <sub>2</sub> e |                 | 291                | 279                          | 276    | 274    | 271    |
| Energy Saving     | Factory Wide Energy Saving (Gas)<br><br>Also investigate Biogas                                                                          | Staff Engagement<br>Target Reduction<br>2% year-on-year                                                                              | Gas                        | M3                 | 0.00202         | 61671              | 56883                        | 55746  | 54631  | 53538  |
|                   |                                                                                                                                          |                                                                                                                                      |                            | tCO <sub>2</sub> e |                 | 125                | 115                          | 113    | 110    | 108    |
| Energy Efficiency | Factory Voltage Stabilizer                                                                                                               | Current Supply Voltage 242V peak<br>Stabilized to 230V<br>5% Saving                                                                  | Location based electricity | MWh                | 0.21233         | 1369               | 1270                         | 1270   | 1270   | 1270   |
|                   |                                                                                                                                          |                                                                                                                                      |                            | tCO <sub>2</sub> e |                 | 291                | 276                          | 276    | 276    | 276    |
| Energy Efficiency | Introduction of LED Lighting in Main Office (Cost £9998, £955 disposal, saving pa £1246, payback 8yrs)                                   | Current consumption 64800KWhr<br>Future Consumption 26880KWhr<br>Estimated Saving 37920KWhr                                          | Location based electricity | MWh                | 0.21233         | 64.8               | 13.0                         | 13.0   | 13.0   | 13.0   |
|                   |                                                                                                                                          |                                                                                                                                      |                            | tCO <sub>2</sub> e |                 | 13.8               | 2.8                          | 2.8    | 2.8    | 2.8    |
| Renewables        | Installation & Expansion of Solar Panels (Self Generation of Electricity) £340K over 3-years 1200panels = 450KW system                   | £340K Phased over 3-years.<br>Starting 2nd half FY2025<br>To self generate 30% of our consumption (i.e. 10% per phase)               | Location based electricity | MWh                | 0.21233         | 1369               | 958                          | 959    | 960    | 961    |
|                   |                                                                                                                                          |                                                                                                                                      |                            | tCO <sub>2</sub> e |                 | 291                | 203                          | 204    | 204    | 204    |
| Conventional      | Phase out burning fossil fuels - Replacement of gas heaters with 100% Green Electric heating system (Initially investigate Green BioGas) | 120t-CO <sub>2</sub> heating (save 40t-CO <sub>2</sub> per year from FY2023)<br>5t-CO <sub>2</sub> cooking<br>5% reduction per annum | Gas (Fossil Fuel)          | m3                 | 0.00202         | 61671              | 2277                         | 2278   | 2279   | 2280   |
|                   |                                                                                                                                          |                                                                                                                                      |                            | tCO <sub>2</sub> e |                 | 125                | 101                          | 96     | 91     | 86     |

**Table 3 – Summary of planned savings by the Carbon Management Plan.**

The progress of the planned reduction projects will be reviewed within the monthly management meetings. The actual emissions will continue to be recorded, summarized and digitally signed-off every month, using proprietary global software.

In addition to implementing the planned reduction projects, we are committed to purchase 100% REGO certified renewable electricity. This will enable us to achieve zero market-based emissions related to electricity consumption.

The organisation's emissions data will be audited annually by an external accredited body, during the "carbon neutral" re-certification process.

## Section 5 Carbon Offsetting Program

### 5.1 Approach to offsetting

Following the process of verification, carbon offsets are purchased, typically in Q2 of our financial year. Our approach is to:-

- Prioritize the reduction of our own gross market-based Scope 1 and 2 GHG emissions, in-line with our Carbon Management Plan.
- Any residual market-based Scope 1 & 2 emissions, together with any other voluntarily declared CO2 emissions, will be offset by investing in equivalent carbon reducing activities elsewhere in the world.
- The offsetting projects will be verified by an independent accredited third-party organization.
- The offsetting projects will have synergies with the United Nations Sustainable Development Goals, and be designed to help those struggling to fulfil the most basic human needs.

Our Carbon Neutral strategy forms part of our commitment to the United Nations Sustainable Development Goals. The seventeen development goals are recognised as a blueprint for achieving a better and more sustainable future for all, based on three pillars of sustainability – i) social inclusion, ii) environmental protection and iii) economic growth.

### **Brother Group's commitment to the UN SDGs**



Preferred offsetting schemes that meet the principles set out in PAS2060:2014 Section 9.1.2 include:-

- **Gold Standard (GS)** – Synergy with Brother International Europe, Manchester.
- **Clean Development Mechanism (CDM)**– Kyoto Protocol compliant Certified Emission Reductions.
- **Verified Carbon Standard (VCS)** - is the world's most widely used greenhouse gas (GHG) crediting program.
- **United Nations Framework Convention on Climate Change (UNFCCC)** - Synergy with Brother Slovakia operation – UN Certified Emission Reductions (CERS) Carbon Offset Platform.

## 5.2 Calculation of Offsets to be Purchased.

The purchase of offsetting credits will be used to offset the gross market-based Scope 1 and 2 GHG emissions outlined, within the boundary of the subject.

| <i>Table 1 - Emission Results Summary</i>             | <i>FY2021</i>                | <i>FY2022</i>               | <i>FY2023</i>               | <i>FY2024</i>               | <i>FY2025</i>              |
|-------------------------------------------------------|------------------------------|-----------------------------|-----------------------------|-----------------------------|----------------------------|
| <b>Total Market Based Emissions Scope 1,2</b>         | 127.9t-CO <sub>2</sub> e     | 105.1t-CO <sub>2</sub> e    | 116.4t-CO <sub>2</sub> e    | 108.8t-CO <sub>2</sub> e    | 77.2t-CO <sub>2</sub> e    |
| <b>Voluntary Reporting of Other Emissions (HFE's)</b> | 100.7t-CO <sub>2</sub> e     | 96.2t-CO <sub>2</sub> e     | 64.9t-CO <sub>2</sub> e     | 113.2t-CO <sub>2</sub> e    | 0.0t-CO <sub>2</sub> e     |
| <b>Total Number of Carbon Credits to be purchased</b> | <b>230.t-CO<sub>2</sub>e</b> | <b>202t-CO<sub>2</sub>e</b> | <b>182t-CO<sub>2</sub>e</b> | <b>222t-CO<sub>2</sub>e</b> | <b>78t-CO<sub>2</sub>e</b> |
| <b>Reduction of offsetting credits Purchased</b>      | <b>Base Year</b>             | <b>12% Reduction</b>        | <b>10% Reduction</b>        | <b>22% Increase</b>         | <b>64% decrease</b>        |

During the commitment period (FY2026), **Brother Industries (U.K.) Ltd commits to** reducing our absolute Scope 1 and 2 emissions as per our Carbon Management Plan and plan to offset the residual emissions which by less than 78t-CO<sub>2</sub>e (i.e., less than our FY2025 offsets)

## 5.3 Selection of Offsetting Projects.

The offsets are purchased through [Climate Impact Partners](#) (Natural Capital Partners). They were selected because they support the delivery of accredited projects which improve the livelihoods of people in some of the poorest communities around the world.

Gold Standard projects are selected. We have chosen to spread the offsets **equally across three projects**, targeted at providing improvements to the health and livelihoods of families, and developing long lasting infrastructure providing renewable energy.

1. [Clean Water and Cooking, Guatemala | Climate Impact Partners \(GS\)](#) – Vintage 2022

In rural Guatemala, more than half of families lack access to clean, uncontaminated water. Water-borne illnesses—closely linked to malnutrition—have been identified as a national priority due to their widespread impact.



To address this, gravity-fed ceramic water filters are being deployed. Constructed from clay, sawdust, carbon, and colloidal silver, each unit treats up to two litres of non-potable water per hour and removes 99% of pathogens, making the water safer for drinking and cooking. By eliminating the need to boil water, the filters also reduce demand for fuelwood, lowering indoor air pollution.

Additionally, improved cookstoves have been introduced. These efficient biomass-burning stoves require less fuel, ease the strain on national forests, and significantly reduce exposure to indoor air pollution—particularly benefiting women and children who spend more time near cooking areas. <https://registry.goldstandard.org>

2. [SELCO Solar Energy Access, India | Climate Impact Partners \(VCS\)](#) – Vintage 2022



Despite significant growth in renewable energy in India, many rural and low-income communities in India remain underserved. The SELCO Solar Energy Access Project—a joint initiative by SELCO Solar Pvt. Ltd. and Climate Impact Partners—aims to bridge this gap by expanding energy access to households most in need.

Through the distribution of a range of solar technologies—including solar lighting, solar water heating systems, and solar photovoltaic (PV) solutions—the project provides underserved communities with clean and sustainable energy.

One of its key efforts, the “**Light for Education**” programme, provides solar lamps to students, enabling evening study in homes without reliable electricity. In its first year, the initiative reached more than **60 schools** and distributed over **2,500 solar lamps**, directly supporting children's education and well-being. [Verra Search Page](#)

3. [Clean Power Portfolio, Global South | Climate Impact Partners \(CDM, VCS\)](#) – Vintage 2022

Energy generation remains one of the leading contributors to greenhouse gas emissions globally. Onshore wind has been identified as the most effective solution for combating climate change between 2020 and 2050.





This portfolio is dedicated to financing infrastructure that replaces fossil fuel-based electricity with clean, affordable, renewable energy. By investing in onshore wind projects, it brings grid-connected power to some of the world's least developed regions—reaching communities without reliable access to clean electricity.

Beyond environmental benefits, the initiative also generates local employment opportunities and enhances the livelihoods of people in surrounding areas, helping foster long-term socioeconomic development. [Verra Search Page](#)

- Carbon offset purchases are made through internationally accredited schemes—such as the Clean Development Mechanism (CDM), Verified Carbon Standard (VCS), and Gold Standard (GS)—ensuring they meet rigorous third-party verification criteria, including additionality, permanence, leakage prevention, and avoidance of double counting.
- Offset transactions typically occur in Q2 of the financial year, following the completion of verification processes.
- Importantly, credits from these projects are only issued after the corresponding emission reductions have been successfully achieved, ensuring genuine environmental impact.
- The credits will be retired within 12-months from the date of purchase, and retirement will be recorded on [GSF Registry \(goldstandard.org\)](#) or [Verra Search Page](#) or [CDM Registry](#).
- The carbon offsets selected have been reviewed by DNV Business Assurance Services UK Ltd, as part of the PAS2060:2014 assurance process.



5.4 Offsetting Certificate

Copy of the Offsetting Certificate.



CLIMATE  
IMPACT  
PARTNERS

Turning Climate Ambition into Impact

Brother Industries (U.K.) Ltd.

Contract Date  
30 Jun 2026

Has purchased

78 tonnes CO<sub>2</sub>e

Job Contract Number  
---

  
Sheri Hickok  
CEO - CLIMATE IMPACT PARTNERS

| Project Name                        | Country   | Vintage | Standard          | Tonnes CO <sub>2</sub> e |
|-------------------------------------|-----------|---------|-------------------|--------------------------|
| Ecofiltro Water Filters, Guatemala  | Guatemala | 2022    | Gold Standard VER | 26                       |
| SELCO Solar Energy Access, India    | India     | 2023    | VCS v3            | 26                       |
| Clean Power Portfolio, Global South | TBC       | 2021    | CDM, VCS v3       | 26                       |

Purchase certificate generated on 17 June 2026, 10:06

## Section 6: Verification Statement

### 6.1 Independent Verification Report issued by BSI Assurance UK Limited.



### Verification Opinion

| Verified as Satisfactory                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                            |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Based on the process and procedures conducted, there is no evidence that the GHG statement contained in the GHG Report '2026.06.01 QES Brother Industries (U.K.) Ltd FY2025 – ver2' produced by Brother Industries (U.K) Ltd:                                                                                                                                                                                                                                                                                                                                                                                                                   | <ul style="list-style-type: none"><li>• is not materially correct and is not a fair representation of GHG data and information.</li><li>• has not been prepared in accordance with ISO14064-1:2018 and its principles</li></ul>                            |
| The following improvements were raised in relation to future reporting                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | The emissions for upstream transportation uses a spend based protocol with a high emission factor, resulting in 1279 tCO <sub>2</sub> e compared to ~30tCO <sub>2</sub> e for downstream, which uses distance based calculations, which are more accurate. |
| Lead Verifier                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Natalie Bavis                                                                                                                                                                                                                                              |
| Independent Reviewer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Peter Stevens                                                                                                                                                                                                                                              |
| Signed on behalf of BSI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <br>Matt Page, Senior Vice President, EMEA Assurance                                                                                                                    |
| Issue Date                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 16 <sup>th</sup> June 2026                                                                                                                                                                                                                                 |
| BSI Assurance UK Ltd, Kitemark Court, Davy Avenue, Milton Keynes, MK5 8PP, UK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                            |
| <p>NOTE: BSI Assurance UK Ltd is independent to and has no financial interest in BROTHER INDUSTRIES (U.K) LTD. This 3<sup>rd</sup> party Verification Opinion has been prepared for BROTHER INDUSTRIES (U.K) LTD only for the purposes of verifying its statement relating to its GHG emissions described in the scope above. It was not prepared for any other purpose. In making this Statement, BSI Assurance UK Ltd has assumed that all information provided to it by BROTHER INDUSTRIES (U.K) LTD is true, accurate and complete. BSI Assurance UK Ltd accepts no liability to any third party who places reliance on this statement.</p> |                                                                                                                                                                                                                                                            |

**Verification Opinion Reference:** CFV 844305 25062026





## Verification Engagement

|                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Organisation                                                                                                                                                                                                                                                                                    | Brother Industries (U.K) Ltd                                                                                                                                                                                                                                                                                                                                                            |
| Responsible party                                                                                                                                                                                                                                                                               | Brother Industries (U.K) Ltd                                                                                                                                                                                                                                                                                                                                                            |
| Verification Objectives                                                                                                                                                                                                                                                                         | <p>To express an opinion on whether the Organisational GHG Statement which is historical in nature:</p> <ul style="list-style-type: none"><li>• Is accurate, materially correct and is a fair representation of GHG data and information.</li><li>• Has been prepared in accordance with ISO14064-1:2018, the criteria used by BSI to verify the GHG Organisational Statement</li></ul> |
| Materiality Level                                                                                                                                                                                                                                                                               | 5%                                                                                                                                                                                                                                                                                                                                                                                      |
| Level of Assurance                                                                                                                                                                                                                                                                              | Limited                                                                                                                                                                                                                                                                                                                                                                                 |
| Verification evidence gathering procedures                                                                                                                                                                                                                                                      | <ul style="list-style-type: none"><li>• Evaluation of the monitoring and controls systems through interviewing employees' observation &amp; inquiry</li><li>• Verification of the data through sampling recalculation, retracing, cross checking, and reconciliation</li></ul>                                                                                                          |
| The verification activities applied in a limited level of assurance verification are less extensive in nature, timing and extent than in a reasonable level of assurance verification                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                         |
| Verification Standards                                                                                                                                                                                                                                                                          | The verification was carried out in accordance with ISO 14064-3:2019, ISO 14065:2020 and ISO 17029:2019                                                                                                                                                                                                                                                                                 |
| <p><i>Note: BROTHER INDUSTRIES (U.K) LTD is responsible for the preparation and fair presentation of the GHG statement and report in accordance with the agreed criteria. BSI Assurance UK Ltd is responsible for expressing an opinion on the GHG statement based on the verification.</i></p> |                                                                                                                                                                                                                                                                                                                                                                                         |



## Organisational GHG Statement

|                                                           |                                                                                            |                                                                                                                                                                                                                                                                                       |
|-----------------------------------------------------------|--------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Organisation                                              |                                                                                            | Brother Industries (U.K) Ltd                                                                                                                                                                                                                                                          |
| Organisations GHG Report containing GHG Statement         |                                                                                            | 2026.06.01 QES Brother Industries (U.K.) Ltd FY2025 – ver2                                                                                                                                                                                                                            |
| Organisational Boundary                                   |                                                                                            | Operational Control                                                                                                                                                                                                                                                                   |
| Locations included in the Organisational Boundary         |                                                                                            | Brother Industries (U.K.) Ltd<br>Vauxhall Industrial Estate<br>Ruabon<br>Wrexham<br>LL14 6HA<br>United Kingdom                                                                                                                                                                        |
| Scope of activities:                                      |                                                                                            | Manufacturing with in-house moulding, warehousing, assembly, production, and office facilities. Manufacture and remanufacture, and packing of printing consumables (toner and inkjet cartridges), Manufacturing of hardware for both OEM and third-party business—all under one roof. |
| Reporting Boundary:                                       | Direct GHG Emissions (Scope 1)                                                             | Stationary combustion, mobile combustion, refrigerants                                                                                                                                                                                                                                |
|                                                           | Direct GHG Removals (Scope 1)                                                              | N/A                                                                                                                                                                                                                                                                                   |
|                                                           | Indirect GHG Emissions from imported energy (Scope 2)                                      | Electricity usage                                                                                                                                                                                                                                                                     |
|                                                           | Indirect GHG emissions from transportation (Scope 3)                                       | Upstream and downstream transport and distribution, Business travel, Employee commuting                                                                                                                                                                                               |
|                                                           | Indirect GHG emissions from products used by Organisation (Scope 3)                        | Purchased goods and services, capital goods                                                                                                                                                                                                                                           |
|                                                           | Indirect GHG emissions associated with the use of products from the Organisation (Scope 3) | Waste from operations, End of life processing of sold products                                                                                                                                                                                                                        |
|                                                           | Indirect GHG emissions from other sources (scope 3)                                        | Fuel and energy related activities                                                                                                                                                                                                                                                    |
| Exclusions from Reporting Boundary:                       |                                                                                            | No applicable categories under boundary excluded                                                                                                                                                                                                                                      |
| Criteria for developing the Organisational GHG Inventory: |                                                                                            | ISO14064-1:2018<br>GHG Protocol                                                                                                                                                                                                                                                       |
| Reporting Period                                          |                                                                                            | 1 <sup>st</sup> April 2025 to 31 <sup>st</sup> March 2026                                                                                                                                                                                                                             |



## GHG Inventory

|                                        | Location based | Market based  |
|----------------------------------------|----------------|---------------|
| <b>Scope 1</b>                         |                |               |
| Stationary Combustion                  | 76.29          | 76.29         |
| Refrigerants (Fugitive Emissions)      | 0.00           | 0.00          |
| Mobile Combustion                      | 0.86           | 0.86          |
| <b>Scope 2</b>                         |                |               |
| Electricity                            | 150.56         | 0.00          |
| <b>Scope 3</b>                         |                |               |
| Purchased Goods and Services           | 10,565.04      | 10,565.04     |
| Capital Goods                          | 324.39         | 324.39        |
| FERA                                   | 31.56          | 31.56         |
| Upstream and Downstream T&D            | 1,298.4        | 1298.4        |
| Waste                                  | 1.16           | 1.16          |
| Business travel                        | 80.70          | 80.70         |
| Commuting                              | 83.35          | 83.35         |
| End-of-life treatment of sold products | 3,310.77       | 3,310.77      |
| <b>Total</b>                           | <b>15,924</b>  | <b>15,773</b> |
| Offsets purchased (Scope 1+2 MB)       | 78             |               |