



JCB CARBON REDUCTION PLAN

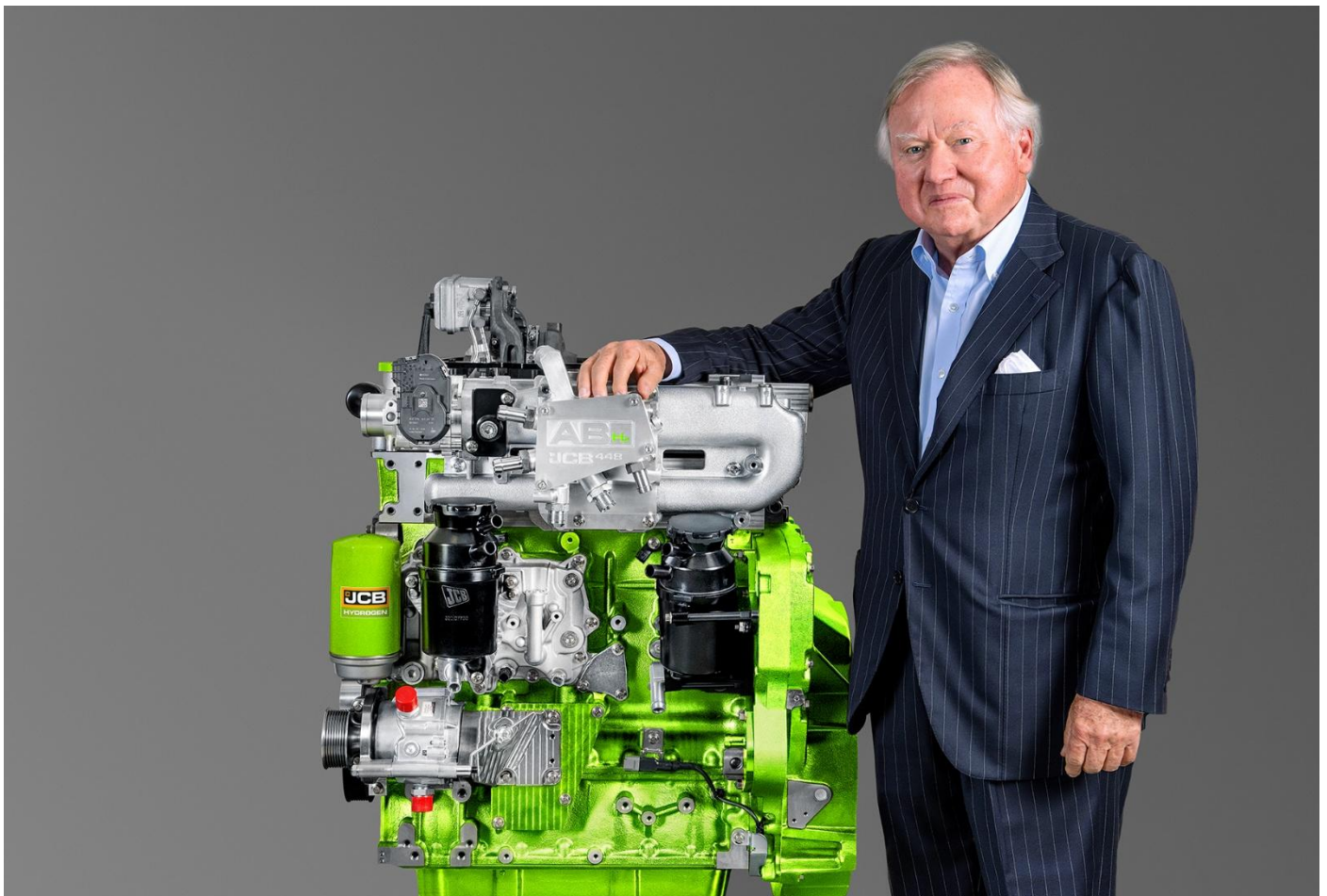
CARBON REDUCTION PLAN

Supplier Name: J.C. Bamford Excavators Limited

Publication Date: 21/10/2026

Foreword by Lord Bamford

I am immensely proud of all that our business has achieved over the years, and the changes we have worked through to keep our business thriving. But in business you have to look forward and that means building on the innovations we have already delivered to realise new accomplishments. At JCB we have a saying that "innovation is our lifeblood" – we thrive on meeting our challenges and moving on to the next. The need for new thinking never diminishes and at JCB we are now developing the machines which will support construction and agriculture in a zero-carbon future. Our engineering teams have demonstrated how years of engine development can, with focus and determination, be put to work for a new future through the development of our hydrogen combustion engine. Delivering product fit for the future is, of necessity, at the forefront of our Sustainability Strategy. However, we must support these advances with the same level of commitment to change in our manufacturing operations and our supply chain. The need to take urgent action to limit climate change has never been more clearly defined. It is of the utmost importance to my family and I that JCB delivers genuine and world-leading contributions to a sustainable future. Our legacy for the future must be a resilient business with sustainable products and skilled people ready and able to flourish in the years to come.



Foreword by Graeme Macdonald

The call for greater action on the climate and environmental crises has been unwavering. Never before has our support in delivering carbon reductions and responsible supply chains been so vital for our customers. We find ourselves challenged with coupling firm ambition on carbon action with a growing business. We have nonetheless continued to invest in the sustainable growth of our business. Our investment in our manufacturing processes in the UK will make our production cleaner and more efficient. Of course, these are things that many organisations are committed to delivering. But what sets JCB apart is the investment we are making in developing products fit for a Zero Carbon future. We have revealed our hydrogen combustion engine – a move which unlocks enormous potential for our industry in the future and places our business in a low-carbon leadership position. We have demonstrated the possibilities of this technology to policymakers and customers in our effort to ensure that all viable options for a genuinely low carbon and sustainable future are understood. However, as always there is still more work to do to enable JCB to continue to contribute to creating a thriving low carbon world.



Overview and Purpose and Scope

The purpose of this Carbon Reduction Plan is to demonstrate JCB's commitment and approach to reducing greenhouse gas emissions and achieving Net Zero by 2050, while meeting the requirements of PPN 006 for relevant UK Government procurements. This Plan covers the UK activities of J.C. Bamford Excavators Limited, presenting the required baseline and current emissions data alongside the environmental management measures and reduction initiatives that support JCB's transition to Net Zero.

The information within this document represents our current best data/assessments for the scopes and period stated. This may differ from previous or future public disclosures due to amendments to historic data, changes in coverage or included activities, improvements or changes in calculation methodology, and other reasonable changes. This document does not overwrite, supersede, or otherwise overrule existing or future disclosures.

NET ZERO Commitment

J.C. Bamford Excavators Limited is committed to achieving Net Zero emissions by 2050 for the scope covered in this Carbon Reduction Plan.

Baseline Emissions

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

JCB has selected calendar year 2021 as the baseline year for its group wide greenhouse-gas inventory and carbon-reduction strategy. The baseline was established to identify the principal sources of emissions across all of JCB's operations and value chain and to support consistent performance measurement over time.

Baseline Year: 2021

Details of the baseline emissions calculation:

Scope 1 emissions include stationary combustion within JCB's UK Factories and Major Facilities, as well as mobile combustion from JCB's UK Fleet of company cars.

Location-based Scope 2 emissions include all electricity consumption (including renewables generation) within JCB's UK Factories and Major Facilities. For the baseline year JCB bought REGO certificates to cover 100% of purchased electricity.

As of publication of this document the following Scope 3 Categories cannot be reported: 3.4 – Upstream transport and distribution, 3.7 – Employee commuting, 3.9 – Downstream transport and distribution. Also note, Scope 3.6 – Business Travel only covers personal car usage for business purposes.

EMISSION CATEGORY	TOTAL EMISSIONS (TnCO ₂ e)
Scope 1 - Direct emissions arising from sources owned or controlled by the organisation.	Stationary and Mobile Combustion: 33,989 TnCO ₂ e ^{1,2}
Scope 2 - Indirect emissions from the generation of purchased electricity, steam, heating, and cooling.	21,210 TnCO ₂ e (Location Based) ² 0 TnCO ₂ e (Market Based) ^{1,2}
Scope 3 - Emissions occurring across the value chain, excluding scope 1 and 2 emissions (Specific categories listed).	Upstream Transportation and Distribution: <i>No Quantification currently available</i> Waste Generated in Operations: 1104 TnCO ₂ e ⁴ Business Travel (<i>Personal Cars only</i>): 189 TnCO ₂ e ¹ Employee Commuting: <i>No Quantification currently available</i> Downstream Transportation and Distribution: <i>No Quantification currently available</i>
Total: Included sources only	56,492 TnCO ₂ e (Location Based) 35,282 TnCO ₂ e (Market Based)

Current Emissions

Current Year: 2025	
Details of the current emissions calculation: Scope 1 emissions include stationary combustion within JCB's UK Factories and Facilities, as well as mobile combustion from JCB's UK Fleet of company cars. Location-based Scope 2 emissions include all electricity consumption (including renewables generation) within JCB's UK Factories and Facilities. For the current reporting year JCB bought REGO certificates to cover 100% of purchased electricity. As of publication of this document the following Scope 3 Categories cannot be reported: 3.4 – Upstream transport and distribution, 3.7 – Employee commuting, 3.9 – Downstream transport and distribution. Also note Scope 3.6 – Business Travel covers hire car and personal car usage for business purposes.	
EMISSION CATEGORY	TOTAL EMISSIONS (TnCO ₂ e)
Scope 1 - Direct emissions arising from sources owned or controlled by the organisation.	Stationary and Mobile Combustion: 36,246 TnCO ₂ e ³

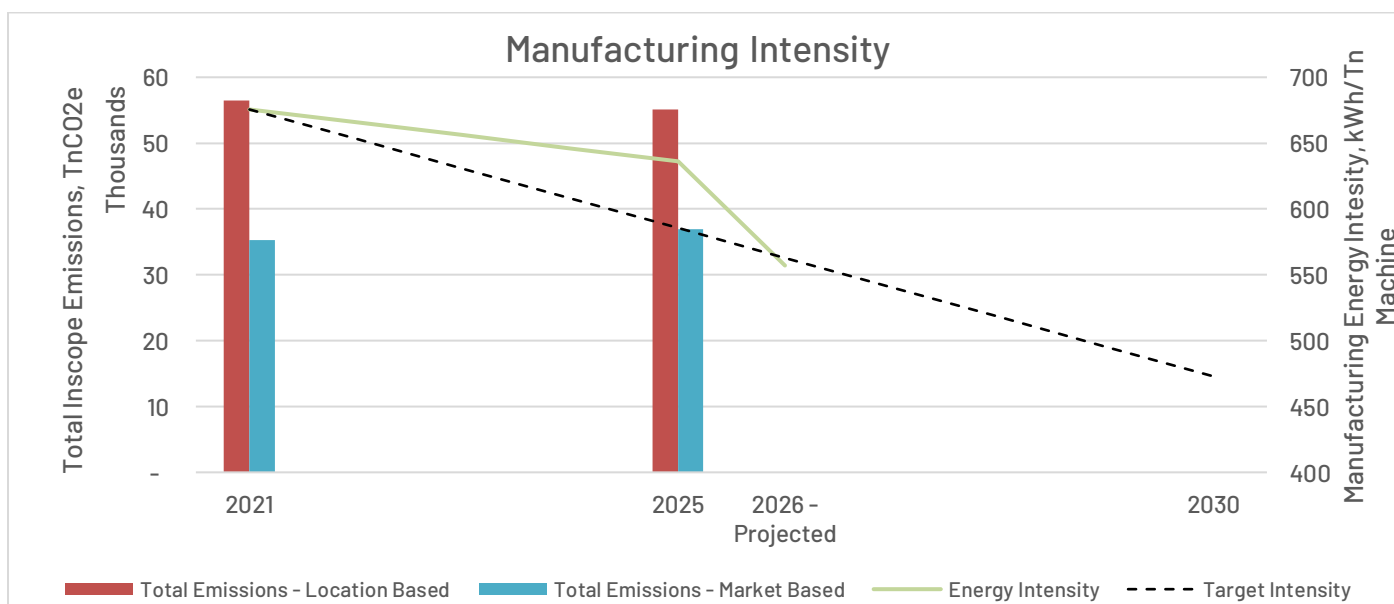
Scope 2 - Indirect emissions from the generation of purchased electricity, steam, heating, and cooling.	18,211 TnCO ₂ e (Location Based) ³ 0 TnCO ₂ e (Market Based) ³
Scope 3 - Emissions occurring across the value chain, excluding scope 1 and 2 emissions (Specific categories listed).	Upstream Transportation and Distribution: <i>No Quantification currently available</i> Waste Generated in Operations: 300 TnCO ₂ e ⁴ Business Travel (<i>Hire & Personal Cars</i>): 371 TnCO ₂ e ³ Employee Commuting: <i>No Quantification currently available</i> Downstream Transportation and Distribution: <i>No Quantification currently available</i>
Total: Included sources only	55,129 TnCO ₂ e (Location Based) 36,918 TnCO ₂ e (Market Based)

Targets and Trajectories

JCB is a growing enterprise, and to continue our Road to Zero while meeting the aims of the business we have set intensity reduction targets for the energy used by our Factories and Facilities to produce our machines. Our target is set against JCB's factories and Facilities globally and judged as kWh per tonne of machine/product manufactured.

Our Target is: A 30% reduction in the energy intensity of our manufacturing operations globally by the end of 2030 from our baseline year of 2021.

Below is the summary of our in-scope emissions and performance against our target – restricted to UK Manufacturing Facilities only.⁴



Carbon Reduction Initiatives

As part of JCB's activities on its 'Road to Zero' we look to continually improve our operations through the deployment of Carbon Reduction Initiatives.

Completed ⁴

The following environmental management measures and projects have been completed or implemented since the 2021 baseline and the end of 2025. The carbon emission reduction achieved by these schemes equate to 3,446 tCO₂e emissions avoided from the baseline year to the end of the current year. Within the current year (2025) this equates to a 2.6% of 2021 baseline emissions (Location Based) avoided. The majority of these measures will be in effect when performing the contract.

- All UK JCB Factories are included in our Environmental Management System with all sites holding ISO14001 certification.
- As part of its sustainability governance JCB has monthly reviews with its Factories and Facilities reviewing both energy performance and both energy and waste saving initiatives. These form part of JCB's Global Carbon Inventory which is certified by a Third Party to the ISO14064 Standard.
- Critical components for JCB's UK manufactured machines are produced locally by JCB's UK Component divisions including but not limited to: Machine Cabs, Hydraulic Rams and Components, Powertrain (engines, gearboxes, axles)
- Notable projects and improvements implemented at our factories since the baseline year include:
 - Lighting: 6 sites have undergone a series of lighting improvements including 18 upgrades to LED or more efficient lighting and 6 introductions of movement sensors to reduce unnecessary usage.
 - FLT: 2 sites have shifted from diesel/LPG forklifts/vehicles to electric forklifts, reducing the associated carbon impact.
 - Air Leak Surveys & Fixes: Since the baseline year 7 sites have undertaken air leak surveys, a number complete these annually. Cumulatively 11 surveys have been undertaken and the resulting air leaks fixed helping to reduce the electricity usage of our compressed air systems.
 - Paint Plant Improvements: 3 sites have made paint plant improvements including, Improved control over usage and equipment improvements reducing the reducing the gas used to manufacture our machines.
 - Control Improvements: 2 sites, with 3 instances in total, have added timers to equipment to limiting unnecessary usage outside of operating hours.
 - Equipment Upgrades: 5 sites, totalling 7 instances, have installed or upgraded equipment to improve its energy efficiency.
 - Shutdown Procedures: As part of our planned manufacturing shutdowns – procedures and checks are used to minimise unnecessary energy usage during downtime.
- In addition to these JCB also has implemented the following initiatives:
 - Through provider 'Tusker', JCB offers employees a salary sacrifice scheme to lease electrified vehicles to reduce the impact of employee commuting.
 - In 2023 and 2024 JCB transitioned the vast majority of its company cars from Pure ICE to hybrid models to reduce the impact of travel on company business.

- All business units have electric car charging facilities for employees to support the transition to lower carbon vehicles for employee commuting.
- For each new site 'Travel Plans' are created to support lower-carbon commuting. This includes ensuring timetables for public transport are available, employees have relevant facilities for walking and cycling to work, and a car sharing scheme is in place aiming to reduce single person vehicle travel.
- Since 2014 a 199kW Solar Array installed at JCB's World Headquarters has continued to supply renewable electricity to the site.
- In Addition, JCB buys REGO certificates (Renewable Energy Guarantee(s) of Origin), to cover its electricity use in the UK.

Planned – Near Term ⁴

To continue our 'Road to Zero', JCB is planning the following initiatives in the near future (2026/27 expected implementation). The nature of JCB's operations is continually evolving, and hence the viability and priority of these initiatives may change as the business evolves. JCB continuously reviews its environmental initiatives in line with business needs.

- JCB is investing £100 million to modernise manufacturing capacity at its WHQ in Rocester, Staffordshire. This includes the installation of an advanced powder coating paint plant that will deliver significant reductions in chemical use, improve energy efficiency, and contribute to a lower environmental footprint across manufacturing process.
- Awareness Campaigns: 2 sites have developed training to reduce energy consumption on specific energy intensive processes.
- Lighting: 3 sites have undergone or are expected to undergo a series of lighting improvements including 5 upgrades to LED Lighting and 1 modification to avoid unnecessary usage.
- Air Leak Survey & Fixes: In 2026 4 sites have undertaken or are expected to undertake air leaks surveys. The air leaks identified are intended to be fixed by the end of the year to reduce the electricity usage of our compressed air systems.
- Equipment Removal: In 2026 3 sites have identified opportunities to remove unnecessary equipment through either eliminating a process entirely or consolidating the work into other sites or processes to improve utilisation.
- Efficiency Improvements: This year 9 sites are expected to undertake 14 projects related to improving the efficiency in our factories. This includes ventilation systems, improving energy intensive processes and upgrading inefficient equipment.
- Control Improvements: 2 sites, with 3 instances in total, are expected to improve the control of heating and cooling systems to reduce energy usage.
- Testing: 1 site has identified an opportunity in the near future to minimise the energy consumption associated with testing of our engines.

Declaration and Sign Off

This Carbon Reduction Plan has been completed in accordance with PPN 006 and associated guidance and reporting standard for Carbon Reduction Plans.

Emissions have been reported and recorded in accordance with the published reporting standard for Carbon Reduction Plans and the GHG Reporting Protocol corporate standard⁵ and uses the appropriate government emission conversion factors for greenhouse gas company reporting.⁶

Scope 1 and Scope 2 emissions have been reported in accordance with SECR requirements (where required), and the required subset of Scope 3 emissions have been reported in accordance with the published reporting standard for Carbon Reduction Plans and the Corporate Value Chain (Scope 3) Standard.⁷

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



Signed on behalf of the supplier: Mark Turner, Chief Operating Officer

Date: 19.10.26

1: information taken from JCB's 2021 SECR Dataset.

2: information taken from JCB's 2026 Audit of its Carbon Inventory (2021 & 2025 Dataset).

3: information taken from JCB's 2025 SECR Dataset.

4: information taken from JCB's internal dataset on Factory and Facility energy, waste, production, and energy reduction initiatives.

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

6: www.gov.uk/government/collections/government-conversion-factors-for-company-reporting

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