

# Net- Zero 2050


24/7 SERVICE &  
MAINTENANCE

HVAC &  
ELECTRICAL  
PROJECTS

MECHANICAL &  
ELECTRICAL OFF-SITE  
FABRICATIONS

COMMERCIAL &  
INDUSTRIAL  
LIGHTING

**Keep In Touch  
With Us**

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# PURPOSE & COMMITMENT

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As a purpose-driven engineering business and Certified B Corp, we are committed to achieving Net Zero carbon emissions by 2050 while delivering safe, compliant and best-in-class building services engineering. Our approach reflects our belief that engineering should strengthen communities, protect the planet, and create long-term value for all stakeholders, not just shareholders.

This plan outlines a staged, credible pathway covering our operational emissions, value chain, and client-influenced impacts, underpinned by transparent ESG reporting and continuous improvement through active carbon monitoring.





# NET ZERO BOUNDARY & EMISSIONS SCOPE

**OUR COMMITMENT COVERS ALL  
MATERIAL EMISSIONS CONSISTENT  
WITH THE GHG PROTOCOL:**

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## **SCOPE 1 – DIRECT EMISSIONS**

- Fuel used by company-owned vans and fleet.
- Fuel used in the onsite plant and equipment.
- Refrigerant leakage from air conditioning systems under our control.

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## **SCOPE 2 – INDIRECT ENERGY EMISSIONS**

- Electricity used in offices, workshops and operational facilities.

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## **SCOPE 3 – VALUE CHAIN EMISSIONS**

- Purchased materials, equipment and building services components.
- Subcontractor activities.
- Waste generation and disposal.
- Business travel and employee commuting.
- Emissions influenced by our design, installation, and engineering decisions for clients.

This reflects B-engineering's emphasis on responsible procurement, reduced resource use, and a circular economy mindset.



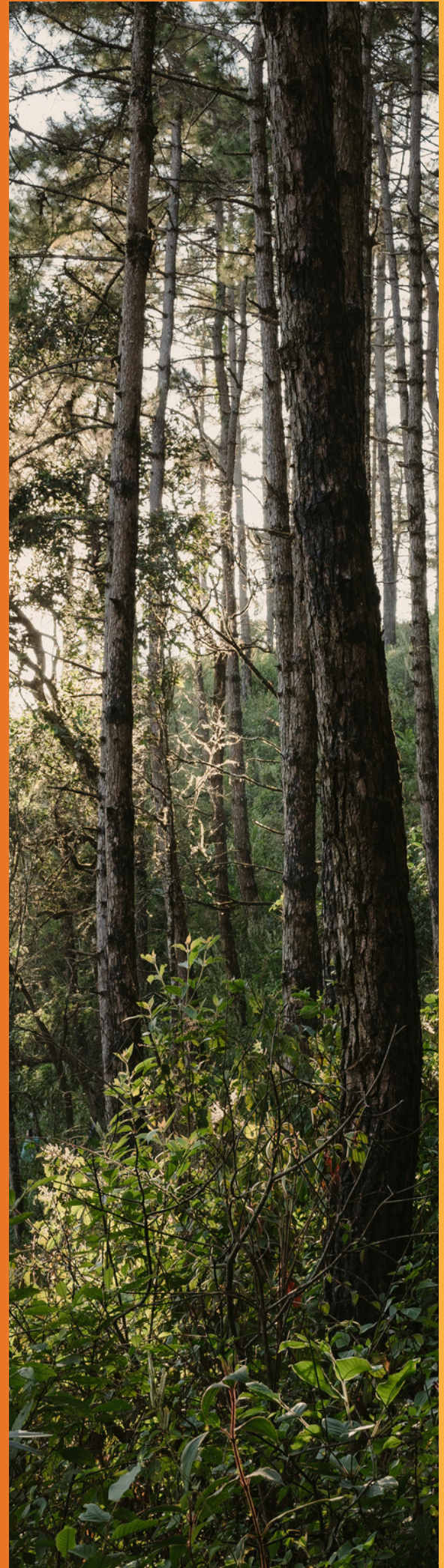


# Baseline & Measurement (2025–2026) UPGRADE

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## ACTIONS

- Establish a full carbon baseline using our carbon management software, “Greenly”.
- Collect detailed operational and supply chain emissions data.
- Capture fleet mileage, fuel use, refrigerants and procurement data.
- Adopt an active, software-based carbon monitoring system, aligned with B-engineering’s ongoing ESG tracking approach.
- Select a carbon accounting tool appropriate for construction and building services.
- Verified baseline year (2025)
- Annual tCO<sub>2</sub>e footprint across Scopes 1, 2 and key Scope 3 categories





# CARBON REDUCTION STRATEGY

## 4.1 SCOPE 1 – FLEET & DIRECT EMISSIONS

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### SHORT TERM (2025–2030)

- Transition to electric company cars and where viable, electric vans.
  - Introduce telematics and driver efficiency training via our CAFM software, Big Change.
  - Offer salary sacrifice for staff for electric cars.
  - Improve refrigerant management through leak detection and low-GWP alternatives via our in house AC Department.
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### MEDIUM TERM (2030–2040)

- Majority electric fleet.
  - All of our premises' EPCs have been upgraded to an EPC B or better.
  - Trial alternative fuels or an electric plant for heavier vehicles.
  - Complete phase-out of high-GWP refrigerants.
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### LONG TERM (2040–2050)

- Fully zero-emission fleet where technology allows.
- Residual direct emissions are reduced to near-zero.
- This mirrors B-engineering's emphasis on responsible travel choices and CO<sub>2</sub> reduction through operational behaviour.



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## 4.2 SCOPE 2 – ENERGY USE IN BUILDINGS

### ACTIONS

- Procure 100% renewable electricity for all operational sites.
- Improve building efficiency through LED lighting, smart controls, insulation upgrades.
- Install rooftop solar PV where viable.

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### TARGET

- Net Zero Scope 2 emissions by 2030

These actions support B-engineering's stated drive to reduce energy use and embed efficient behaviours across facilities.

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## 4.3 SCOPE 3 – SUPPLY CHAIN & PROJECTS

Scope 3 is the largest impact area and aligns closely with B-engineering's focus on circular economy, responsible procurement, and reducing waste.

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### KEY FOCUS AREA

- Ethical procurement
- Low-carbon material and equipment selection
- Waste minimisation
- Subcontractor sustainability standards
- Design decisions influencing whole-life carbon

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### ACTIONS

- Prioritise suppliers with Environmental Product Declarations and Net Zero targets.
- Specify an energy-efficient, low-carbon plant as standard.
- Increase refurbishment and optimisation over replacement
- Expand off-site fabrication to reduce waste.
- Require subcontractors to meet minimum environmental/ESG standards.
- Prefer local suppliers to reduce carbon emission numbers.



# CLIENT & ENGINEERING- LED IMPACT

**B-ENG, A BUILDING SERVICES  
ENGINEERING BUSINESS, OUR  
LARGEST INDIRECT IMPACT STEMS  
FROM CLIENT BUILDINGS.**

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## **COMMITMENTS**

- Advocate for energy efficiency, electrification and smart controls in all designs.
- Support clients with:
  - Low-carbon heating (e.g., heat pumps)
  - Boiler and plant replacement strategies
  - BMS optimisation and monitoring
  - F-Gas compliance and refrigerant transition.

This aligns with B-engineering's belief that engineering should positively impact people, buildings and communities—balancing performance with environmental stewardship



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## OFFSETTING & RESIDUAL EMISSIONS

- Offsetting will not be used as a primary measure.
- Only unavoidable, verified residual emissions will be offset.
- Preference for high-quality, UK-based offsets.
- Offset requirements decrease as absolute emissions reduce

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## GOVERNANCE & ACCOUNTABILITY

- Appoint a Net Zero Lead responsible for coordination and delivery
  - Integrate carbon reduction into procurement, project reviews and company strategy.
  - Use active monitoring tools aligned with B-engineering's ESG reporting software.
  - Annual performance review and continuous improvement.
  - Oversight from senior leadership
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# TARGETS & MILESTONES

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**2050**

**NET ZERO ACROSS  
ALL SCOPES**

**2040**

**DEEP SCOPE 3 REDUCTIONS  
EMBEDDED**

**2035**

**MAJORITY  
LOW/ZERO-EMISSION FLEET**

**2030**

**NET ZERO SCOPE 2;  
50% REDUCTION IN SCOPE 1**

**2026**

**CARBON BASELINE PUBLISHED**

**THESE MILESTONES COMPLEMENT B-ENGINEERING'S LONG-TERM VISION OF  
SUSTAINABILITY AND ENVIRONMENTAL RESPONSIBILITY**



# REPORTING & TRANSPARENCY



ANNUAL CARBON  
FOOTPRINT  
REPORTING



PUBLIC ESG UPDATES  
CONSISTENT WITH  
B-CORP STANDARDS



THE  
TRAFFORD  
COLLEGE  
GROUP



TRANSPARENT  
COMMUNICATION WITH  
STAFF, CLIENTS AND  
COMMUNITY PARTNERS



OPEN DATA SHARING APPROACH ALIGNED WITH B-ENGINEERING'S COMMITMENT  
TO ACCOUNTABILITY AND POSITIVE SOCIAL IMPACT

## SUMMARY

By combining carbon-conscious design, responsible procurement, ESG-driven decision-making and transparent reporting, we aim to deliver measurable decarbonisation while helping our people, clients and communities transition to a resilient, low-carbon future.



## UNLOCK YOUR SAVINGS AND GO GREEN!

Call us now for your **FREE** consultation and discover how we can help you save money while decarbonising.

Don't miss out on this opportunity to make a difference!