
CLIMATE ACTION

Our approach

OUR VISION
2030
TRANSFORMING TOMORROW



Berkeley
Group

CONTENTS

2

Introduction

5

Our Vision 2030

6

The Climate Emergency

12

Science-Based Targets

14

Action Plan

24

Track Record

CLIMATE ACTION

Berkeley's passion and purpose is to build quality homes, strengthen communities and make a positive difference to people's lives. Taking action on climate change is vital to achieving this core mission and is at the heart of both our business strategy, and the way we design and create new places.

We have come a long way since we launched our sector's first Climate Change Policy in 2007. Our direct business operations are now carbon neutral, we procure 100% renewable electricity in the UK and are the only homebuilder in the country to be awarded an A rating for Climate Action and Transparency by CDP, the highest score possible.

But we must go further, and Berkeley is now proud to be a 1.5°C aligned business, having set independently verified science-based targets for reducing our greenhouse gas emissions. These targets cover our direct emissions, the embodied carbon within our supply

chain and the in-use emissions created by our homes.

These targets put us on a course to being a net zero carbon business by 2040.

We are also playing a lead role in climate change adaptation, creating new homes and places that are more resilient to the challenges of a warmer climate, and which embrace the great potential of nature-based solutions.

Our climate action programme is holistic, ambitious and challenging. It involves transformational changes to our business operations and to the ways in which we design and create new places in partnership with our supply chain.

We want to play a full role in addressing this global challenge and believe it is the right thing to do for all of our stakeholders.

Rob Perrins
Chief Executive, Berkeley Group





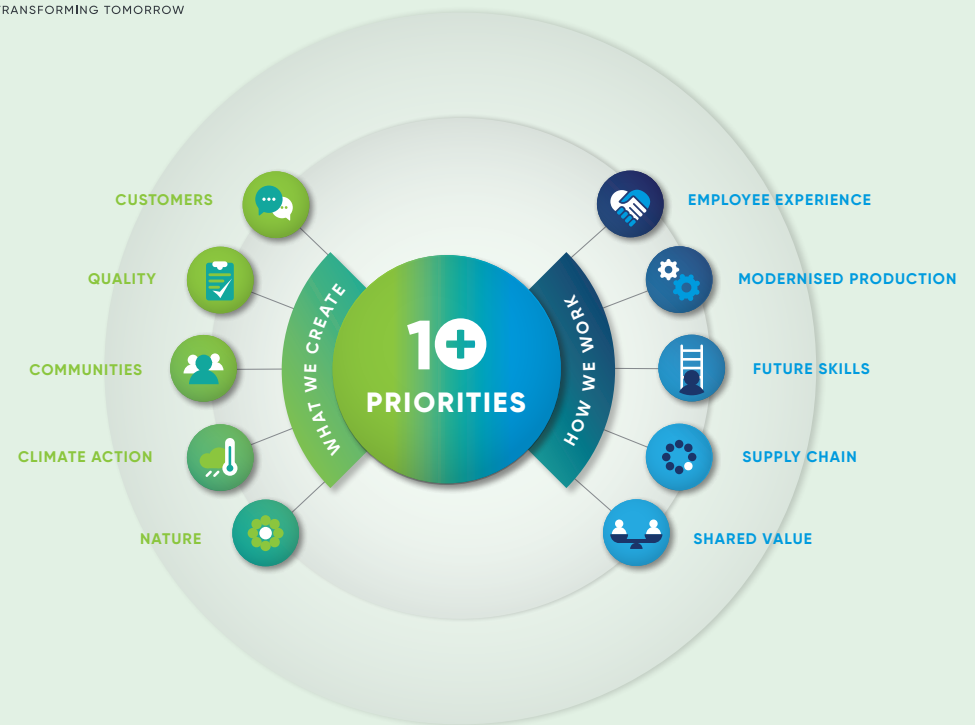
OUR VISION 2030

Climate Action is one of ten strategic priorities within Berkeley's long-term business strategy, called Our Vision 2030.

It sets out a balanced and holistic approach to leading our business over the next decade.

It will help us to be a world-class business, trusted to transform the most challenging sites into exceptional places and to maximise our positive impact on society, the economy and the natural world.

Find out more at www.berkeleygroup.co.uk/ourvision



THE CLIMATE EMERGENCY

- Since the Industrial Revolution in the mid 1800s, humans have been releasing large quantities of greenhouse gasses into the atmosphere
- These gases have built up over time and now form a blanket around the planet. This blanket traps energy from the sun and is causing the Earth to heat up
- The average annual temperature in the UK is around 1°C warmer than the pre-industrial period.¹ This is a rapid change in terms of our global climate system
- 17 of the 18 warmest years on record have occurred in the 21st Century, and each of the last 3 decades have been hotter than the one that went before²
- In the UK we are now experiencing more intense and frequent extreme weather events, such as heatwaves, droughts, and floods³
- Without global action to address climate change the damage to our planet and way of life will be severe and irreversible
- **The built environment, including all existing buildings, is responsible for around 40% of UK greenhouse gas emissions,⁴ so companies like Berkeley have an important role to play in tackling this crisis**

¹ The Committee on Climate Change: www.theccc.org.uk/what-is-climate-change/what-are-the-risks/

² UK Met Office: www.metoffice.gov.uk/about-us/press-office/news/weather-and-climate

³ UK Met Office: www.metoffice.gov.uk/weather/climate-change/what-is-climate-change

⁴ UK Green Building Council: www.ukgbc.org/climate-change/





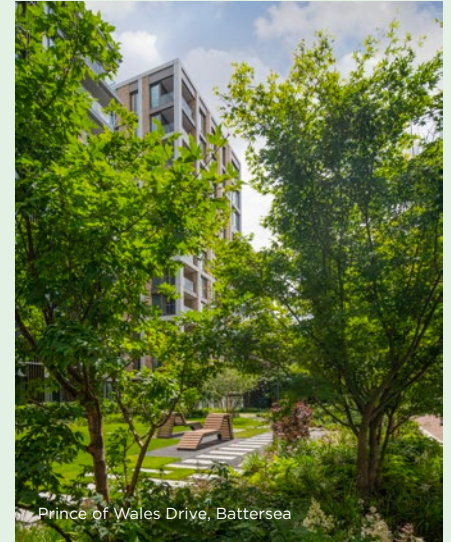
Ryewood, Sevenoaks

GLOBAL TEMPERATURE GOALS

In 2015, close to 200 countries agreed to adopt the Paris Climate Agreement, which aims to limit the global temperature increase in this century to well below 2°C, while pursuing means to limit the increase even further to 1.5°C.

In 2018, a report by the Intergovernmental Panel on Climate Change (IPCC) warned that global warming must not exceed 1.5°C to avoid the most catastrophic impacts of climate change.

To achieve this, greenhouse gas emissions must rapidly reduce, dropping to net zero by 2050.¹



Prince of Wales Drive, Battersea

WHAT DOES 'NET ZERO' MEAN?

For global emissions to reach 'net zero' there needs to be an equal balance between the amount of greenhouse gas released into the atmosphere, and the amount taken out.

To achieve this balance the first priority is to rapidly reduce the current level of emissions.

However, it is not realistic for all global emissions to be eliminated by 2050,

so there will be a need to fully offset those gases which are still being released via carbon sequestration.

'Carbon sinks', such as peatlands of forests, are living systems which naturally absorb greenhouse gas from the atmosphere and can help the world to achieve net zero emissions. New technologies will also play a part in this process.

¹ SBTi: www.sciencebasedtargets.org/about-us



*Berkeley has an important role to play
in tackling this crisis*

SCIENCE-BASED TARGETS

- Climate scientists have calculated the amount by which global greenhouse gas emissions must be reduced to keep temperature rises below the 1.5°C threshold

This has enabled individual businesses to set their own science-based targets that align with, and contribute to, a 1.5°C future

- The Science-Based Targets initiative (SBTi), founded by CDP, the UN Global Compact, the World Resources Institute and WWF, is a not-for-profit

organisation which independently verifies targets, allowing companies to make credible claims about their ambitions

- Targets are only considered 'science-based' if they prescribe the level of emission reduction required to limit temperature rises to well below 2.0°C above pre-industrial levels, and to pursue efforts to limit the temperature increase to 1.5°C

Find out more at www.sciencebasedtargets.org



BERKELEY'S SCIENCE-BASED TARGETS

Berkeley has set science-based targets, which have been validated by the Science-Based Targets initiative (SBTi):

- Berkeley will reduce emissions from its direct operations by 50% between 2019 and 2030**

This commitment covers absolute Scope 1 & 2 GreenHouse Gas emissions from our direct operations. It includes the electricity, natural gas and fuel use across our offices, sales suites and construction sites. The 50% reduction by 2030 will be against a base year of 2019.



- Berkeley will reduce the carbon impact of the materials and services it uses by 40% between 2019 and 2030**

This commitment covers all Scope 3 category 1 emissions, which includes the embodied carbon of materials and our supply chain used to construct our homes.



- Berkeley will reduce the in-use carbon emissions of the homes we build by 40% between 2019 and 2030**

This commitment covers the emissions from the energy used to run our homes during their lifetime. The 40% reduction is based on the emissions of the completed homes in 2019. It will be normalised by completed floor area against a base year of 2019 and compared to the normalised emissions of homes legally completed in 2029/30.



ACTION PLAN

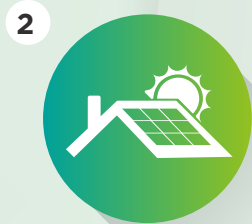
Five Action Areas

Our climate action programme includes five key action areas, which are driving progress towards our science-based targets and ensuring that our homes, places and business operations are resilient to the impacts of climate change.

This integrated climate action programme targets the most carbon intensive activities throughout our full supply chain, identifying mitigations and adaption solutions. **They chart a course to Berkeley becoming a net zero carbon business by 2040.**



Embodied carbon



Low carbon homes



Low carbon construction sites



Climate change resilience



Balancing our impacts



EMBODIED CARBON

1



Focus on understanding and then reducing the carbon content of the materials and services we use. Minimise embodied carbon through design and then collaborate with our supply chain to procure lower carbon products. Partner with companies that are reducing emissions within their own operations.

ACTIONS

- **Benchmark** – assess embodied carbon assessments on 10 sites to identify high impact materials and services
- **Supply Chain** – work with our supply chain, including architects, to understand and reduce carbon impacts
- **Measure and reduce** – assess embodied carbon on all sites by 2025 and set reduction targets

LOW CARBON HOMES

2



Reduce the in-use lifetime carbon emissions of our homes by focusing on efficient building fabric in line with the Future Homes Standard and incorporating the right low carbon technologies for each site.

ACTIONS

- **Reduce demand** – design homes to be more energy efficient
- **Understanding performance** – set out a strategy to measure in-use energy performance
- **Deliver low carbon homes** – ensure all homes are enabled to be low carbon by 2030
- **Low carbon lifestyles** – continue to prioritise clean energy tariffs and design well-connected, walkable neighbourhoods with local amenities, sustainable transport links and infrastructure

LOW CARBON CONSTRUCTION SITES

3



Implement efficiency measures on sites and increasingly use biodiesel in place of traditional gas oil. Continue to purchase renewable energy and carbon offsets to maintain carbon neutral direct business operations, covering Scope 1 and Scope 2 emissions (also see Balancing our Impacts on page 20).

ACTIONS

- Increase the use of **biodiesel**
- Early adopter of **hybrid and electric machinery**
- Set challenging **benchmarks and standards** for energy management

CLIMATE CHANGE RESILIENCE

4



Model the expected impact of climate change on our operations and take action to mitigate the risks. We will continue to incorporate adaptation measures in the homes we build.

ACTIONS

- **Scenario planning** – for our business and developments, aligned with the Task Force on Climate-related Financial Disclosures (TCFD) requirements
- **Climate resilient homes** – define a climate-resilient home to ensure that they are leading and maximise customer benefits
- **Nature based solutions** – create biodiverse landscapes that are resilient to extreme weather including flooding and drought
- **Design adaptation** – implement site specific adaptations such as passive balcony shading, ventilation systems and SUDS
- **Climate risk management** – develop active climate risk management programmes for all developments and business activities by 2025

BALANCING OUR IMPACTS

5



Our first priority is to reduce our emissions, but until we complete this transition we will continue to balance our impacts by investing in projects and partnerships that produce zero carbon energy or actively remove carbon from the atmosphere.

We will maintain carbon neutral direct business operations (Scopes 1 & 2) through purchasing verified carbon offsets, as well as investigating opportunities to deliver or support nature-based carbon capture and renewable energy initiatives.

ACTIONS

- **Carbon neutral** – we will continue to be carbon neutral within our operations (covering Scope 1 and Scope 2 emissions) through purchasing 100% renewable energy in the UK (backed by Energy Guarantee of Origins) and then offset our remaining emissions through the support of verified projects
- **Innovation** – we will investigate the opportunity for innovation and partnerships that would help us to utilise meanwhile uses to generate clean energy and to explore how carbon offsets can deliver nature-based solutions and support nature's recovery



SHARING SOLUTIONS

Collaboration will be key to our success and Berkeley is one of the five founding partners to the UK Green Building Council's Advancing Net Zero programme, which is helping to lead and co-ordinate climate action across the UK built environment sector.

Berkeley is also a founding signatory of the World Green Building Council's Net Zero Carbon Commitment, which involves states, regions, cities, businesses and other organisations agreeing to reduce their impact and sharing knowledge to achieve net zero carbon building portfolios.

Find out more at www.ukgbc.org/ukgbc-work/advancing-net-zero and www.worldgbc.org/thecommitment



Goodman's Fields roof gardens, Aldgate

TRACK RECORD



2007

Became the first UK homebuilder to publish a Climate Change Policy



2010

First carbon reduction targets and programmes launched as part of our business strategy, Our Vision



2014

Launched our first climate change adaptation programme to make our homes and neighbourhoods more resilient to extreme weather and rising global temperatures



2018

Procured 100% renewable electricity for UK operations for the first time



2018

Achieved carbon neutral business operations for the first time, by taking action to reduce our emissions and offsetting remaining emissions via verified offsetting projects



2019

Produced our first low carbon transition plans, which model site-specific design, infrastructure and technology solutions to enable our homes to achieve net zero carbon



2020

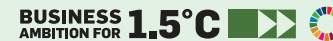
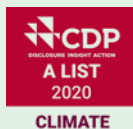
Set science-based targets and became a 1.5°C aligned company



2020

Rated 'A' by CDP for Climate Action and Transparency, the highest grade available and leading grade in our sector

MEMBERSHIPS, AWARDS, ACCREDITATIONS





Proud members of the Berkeley Group:

Berkeley
Designed for life

St Edward
Designed for life

St George
Designed for life

St James
Designed for life

St Joseph
Designed for life

St William
Designed for life