sustainable futures

sustainable futures

2021-2022

Sustainability Performance Report

OUR VISION 2030
TRANSFORMING TOMORROW

Berkeley Group

"Berkeley's passion and purpose is to build quality homes, strengthen communities and make a positive difference to people's lives."

Hartland Village in Fleet, former derelict jet engine testing and development site

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We transform challenging and complex brownfield sites into welcoming and sustainable places, with homes and amenities for all."

Broadacres, Southwater.

1.0

Introduction

The Berkeley Group's approach to sustainability is to develop the homes and places of the future without compromising the ability of younger generations to meet their needs.

We transform challenging and complex brownfield sites into welcoming and sustainable places, with homes and amenities for all. By reviving neglected and underused land, we can return it to community use and create neighbourhoods that have social, environmental, economic and commercial value.

Through our Sustainability Strategy, we take action to reduce the long-term impacts of both our operations and the places we build, running our business efficiently and considerately and developing sustainable homes and places.

There are five focus areas of our Sustainability Strategy: Climate Action, Communities, Nature, Resources and Environmental Management.

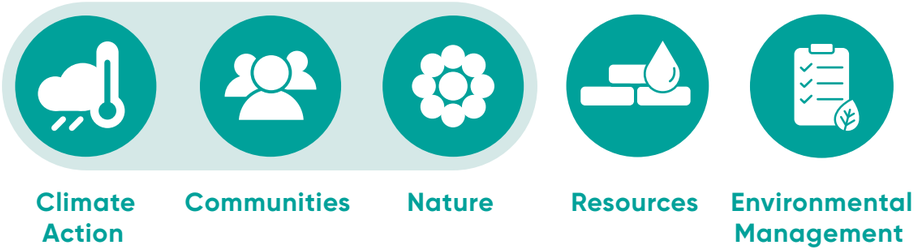
Three areas of our Sustainability Strategy have been identified as being of strategic importance to Berkeley Group and are therefore integrated within our business strategy Our Vision 2030. Those three areas are: Climate Action, Communities and Nature.

More information on Our Vision 2030 can be found on our website: **Find out more**

This report covers the period from 1 May 2021 to 30 April 2022 and supplements the information provided in our 2022 Annual Report, which is available on our website: **Find out more**

You can read more about our approach to Sustainability on our website: **Find out more**

Our Vision 2030 priorities:



"We believe that a new development should add to nature, instead of taking away."

Edenbrook

1.1

Sustainable Futures

This report focuses on our performance across our five focus areas of Sustainability:

Climate Action

We are reducing our carbon emissions by driving progress towards our science-based targets and ensuring that our homes, places and business operations are resilient to the impacts of climate change.

Communities

We focus on bringing unloved and underused spaces back to life, unlocking a mix of social, environmental, economic and commercial value that benefits all of our stakeholders and that create strong communities that can thrive over time.

Nature

We believe that a new development should add to nature, instead of taking away. We take action to deliver biodiversity net gain on all our new developments and we are broadening our approach to nature so that projects can begin to achieve environmental net gain.

Resources

We are driving progress towards our waste management and resource efficiency targets. We also focus on partnering with our suppliers and peers to drive positive change across the value chain.

Environmental Management

We ensure our environmental management practices on site go beyond best practice, thus minimising the risks to the environment and the local community.

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1.2

2021/22 highlights

44%
reduction of our scopes 1 and 2 emissions compared to our 2019 base year

89%
of homes completed had an Energy Performance Certificate (EPC) rating of B or above

15
embodied carbon assessments were undertaken to define a Group wide baseline and targets

Launched our **Social Value Tool** to support the design of our developments

13
developments measuring Social Value

19
large-scale regeneration sites (100%) have a community plan in place

100%
of new sites (6 no.) committed to deliver a biodiversity net gain greater than 10%

14.42
Berkeley's average score for the 'Care for the Environment' section of the CC (industry average 12.59)

Climate scenario analysis undertake as recommended by the Task Force on Climate-relate Financial Disclosures (TCFD)

Founding member of the **Blue Recovery Leaders Group**, set up by the Wildfowl and Wetlands Trust and supported by HRH the Prince of Wales

Launch of an evolved **Site Sustainability Assessment** process

21%
reduction in water intensity (m^3/ 100 sq m legally completed floor area) compared to 2020/21

0
environmental prosecutions or fines

Significant increase in the use of biodiesel, resulting in a saving of 338 tCO_2e (scope 1 emissions)

164
acres of habitat creation or enhancement newly committed to biodiversity net gain

18%
reduction in construction waste compared to 2020/21

>4,500
tonnes of materials reused on site

40%
reduction in construction wast intensity (tonnes/ 100 sq m of legally completed floor area) compared to 2020/21

1.3

Awards and Accreditations

Set out below is a selection of our sector-leading sustainability awards and benchmark ratings:

CDP 2021
A- leadership rating achieved in 2021 for Climate Action and Transparency, reflecting our industry-leading approach to climate action

ISS ESG Corporate Rating
Prime status, reserved for 'industry leaders who fulfil demanding performance expectations'

MSCI ESG Rating
AAA MSCI ESG rating held for the past 6 years, ranking within the top 8% of the sector

FTSE4Good Index
Listed company since 2003

Better Society Awards 2022: Transformation Award
Berkeley recognised for the positive impact we are delivering through Our Vision 2030, and for the significant and sustainable changes we are making to the built environment

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1.4

Memberships and partnerships

We believe it is important to collaborate with others in our industry to drive innovation and best practice and to identify common solutions for the defining challenges of our generation. We are therefore active members and supporters of a range of collaborative initiatives and membership bodies.

Gold Leaf Member
Advancing Net Zero Programme Partner

Green Construction Board Member
CO2nstructZero Advisory Group Member

Partner

Founding member of the Blue Recovery Leaders Group

Founding Partner

Supporter

Berkeley Group | Sustainability Report 2022

2.0

Climate Action

Royal Arsenal Riverside

> Climate Action is one of our ten strategic priorities for Berkeley Group and is integrated into our business strategy Our Vision 2030."

White City Living, Hammersmith & Fulham

2.1

Climate Action

Tackling climate change has been a priority for Berkeley since 2007 and we are proud to be a 1.5 degree aligned business.

As a company we have an impact on climate change through the carbon produced by the energy we use, but more significantly through our supply chains (embodied carbon) and through the use of the homes we build during their lifetime. We also have a duty to ensure that the homes and places we are creating are resilient to the impacts of future changes in climate.

Climate Action is one of the ten strategic priorities integrated into Berkeley's business strategy, Our Vision 2030. Over the last year we have focused on understanding how we can achieve our science-based targets (SBTs), with particular emphasis on embodied carbon. Further information on our SBTs is on page 14.

Our Goal

Our goal is to play an active role in tackling the global climate emergency by creating low carbon, resilient homes.

Our Targets

- Science-based targets (SBTs) to reduce greenhouse gas (GHG) emissions. Further details on page 14
- To ensure our business and developments are resilient to future climate change

This year's highlights

44%
reduction of our scopes 1 and 2 emissions compared to our 2019 baseline year

15
embodied carbon assessments undertaken across our sites to define a Group-wide baseline and targets

Climate scenario analysis
undertaken as recommended by TCFD

89%
of homes completed had an Energy Performance Certificate (EPC) rating of B or above

338 tCO_2e
reduction in scope 1 emissions through the use of biodiesel

2.2

Science Based Targets

Science Based Targets to Reduce Greenhouse Gas Emissions

We have set science-based targets (SBTs) which commit us to reducing our greenhouse gas (GHG) emissions by 2030. Our targets cover our direct emissions, the embodied carbon in our supply chain and the in-use emissions created by our homes. They have been calculated to ensure that we play our part in limiting global warming to 1.5°C above pre-industrial levels and put us on the pathway to be a net zero carbon business by2040. Our targets were independently approved by the Science Based Targets initiative (SBTi) in December 2020.

More detail on our SBTs can be found here.

50%↓

Reduction in absolute scopes 1 and 2 GHG emissions from direct operations between 2019 and 2030

40%↓

Reduction in scope 3 GHG emissions from the use of the homes we build between 2019 and 2030

40%↓

Reduction in scope 3 GHG emissions from our purchased materials and services between 2019 and 2030

SCIENCE BASED TARGETS
DRIVING AMBITIOUS CORPORATE CLIMATE ACTION

Royal Arsenal Riverside

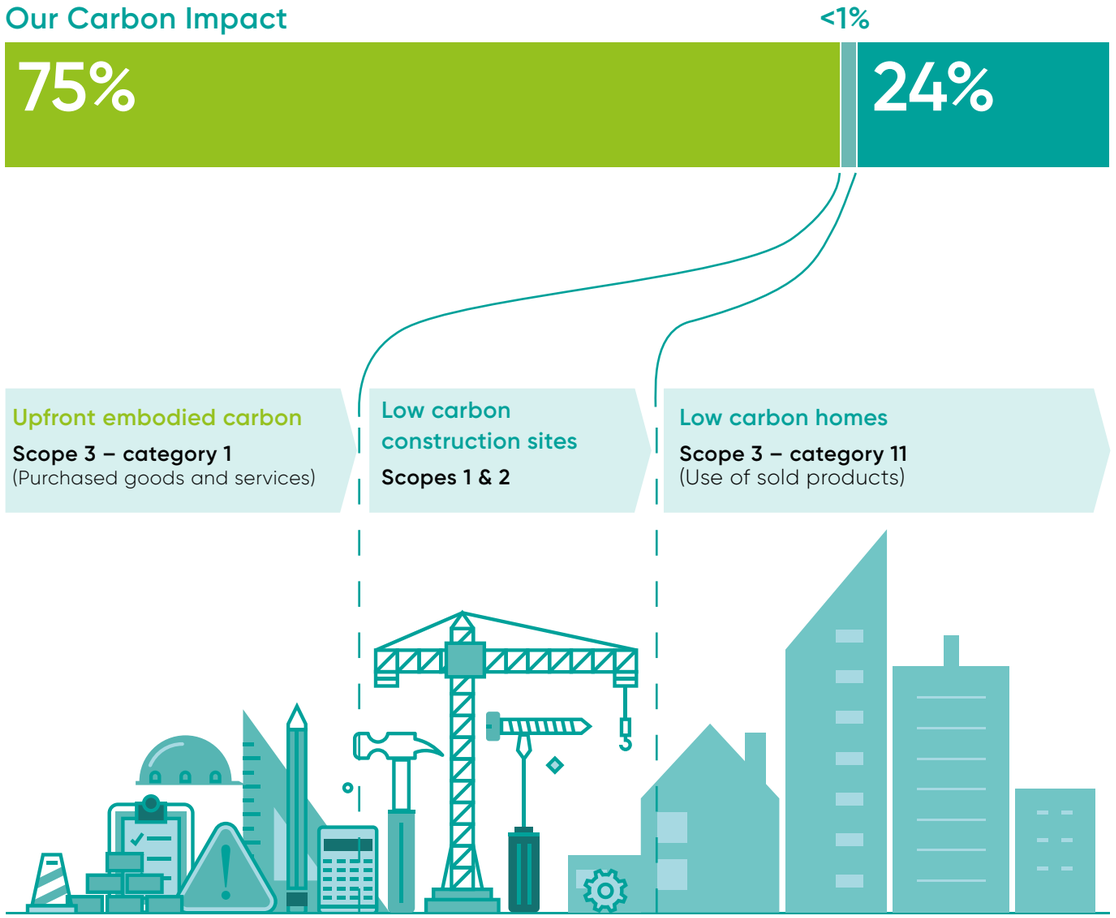
Broadacres, Southwater

2.3

Understanding our impact

Each year we measure our impact to understand our progress against our SBTs. In 2021/22, upfront embodied carbon accounted for 75% of our impact.

Our Carbon Impact



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2.4

Progress against our action plan

Embodied carbon

We know that the majority of our carbon impact comes from upfront embodied carbon. Our scope 3 SBT requires us to reduce the carbon impact of the materials and services we use by 40% between a 2019 baseline and 2030. To better understand these impacts, this year we have completed 15 embodied carbon assessments across a range of building typologies, from houses to mid-rise apartments and tall buildings, together with homes built using modular construction. The projects were also selected to cover a variety of stages, from early design through to construction and completion.

The assessments cover the embodied carbon of the buildings until the point of practical completion (RICS Modules A1-A5), i.e. the product stage (raw material extraction and manufacture) together with construction (emissions from transport to site and contractor works).

All Berkeley developments assessed were found to outperform the LETI business-as-usual benchmark of 850 $kgCO_2/m^2$ for A1-A5, indicating that our teams are already considering and reducing embodied carbon beyond the norm, with some projects outperforming the LETI benchmark for 2020 of 500 $kgCO_2/m^2$.

This study formed part of our ongoing research to improve the environmental sustainability of our homes and we are now in the process of setting targets for the business for each of the different building typologies. These will provide clear recommendations from the assessments undertaken to date and a route map to achieve our SBT.

Low carbon homes

To help us meet our SBT of reducing the in-use energy of our homes by 40% by 2030 from a 2019 baseline, we continue to concentrate on the building fabric and incorporating low carbon technology.

This year, we have been working on producing guidance for our teams on how the SBTs relate to future Building Regulations, notably Part L 2021 (in force June 2022) and the Future Homes Standard expected to be in force from 2025. In addition, we have set out guidance for our teams to meet minimum energy efficiency standards for new homes.

To help us better understand the energy use and performance of our homes we will set out a strategy to measure in-use energy performance to compare against designed performance.

Within our homes we incorporate energy efficient domestic appliances and include smart meters and energy display devices to help our customers to reduce energy use.

We also have a role in raising our customers' awareness. The customer service and sales teams are familiar with the developments' and the homes' sustainability features and they provide a demonstration of these at handover to enable and advocate low carbon lifestyles for those who live in our homes.

Low carbon construction sites

Our scopes 1 and 2 SBT is to reduce emissions by 50% between our baseline year of 2019 and 2030. Most of our direct emissions are due to the activities taking place on our construction sites so we are exploring solutions and options to improve energy efficiency and reduce direct emissions.

Although our preferred approach to reduce emissions is to connect to the grid as soon as possible and use electric machinery, equipment and tools, we appreciate that some fuel will be used on site. As such, this year we have invested time in understanding biofuels as alternatives to traditional fossil fuels. The use of biodiesel HVO (Hydrotreated Vegetable Oil) which is derived from renewable raw materials such as vegetable oils is now encouraged as this generates considerably lower carbon emissions. The supply chain of biodiesel HVO is still new and may present some issues around full traceability and adverse effects of land use change. We therefore request that all biodiesel HVO used is produced from waste or by-products (e.g. used cooking oil) and certified via a recognised scheme such as International Sustainability and Carbon Certification (ISCC).

Efforts to reduce our direct emissions have led to a 13% reduction in scopes 1 and 2 emissions compared to last year, and a 44% reduction compared to our 2019 baseline.

Abbey Barn

Climate change resilience

As well as our focus on reducing carbon emissions, we work to make our operations and our homes resilient to climate change. We are preparing our business for expected changes to climate and taking action to mitigate the risks by incorporating adaptation measures in the developments we build to ensure more resilient places for our customers and future residents in decades to come.

We continue to review the risks posed by climate change to our business, for example by carrying out the Climate Scenario Analysis recommended by the Task Force on Climate-related Financial Disclosures (TCFD), and continue to implement measures to ensure our operations and our developments are able to respond.

Prior to land purchase, we assess the land to identify all types of risks, including those related to climate change (e.g. flood risk and overheating). These assessments are site specific taking into account the unique characteristics of each development.

Flood risk assessments are carried out on every site as part of the planning process. Nature-based solutions and biodiverse landscapes in our developments are key to help to create places that are more resilient to extreme weather (including flooding and drought). Of our live development sites undergoing works this year, 92% incorporate Sustainable Drainage Systems (SuDS).

We also undertake overheating risk assessments, including dynamic thermal modelling on sites that are at higher risk of future temperature increases. This was introduced for our developments in 2017 going beyond the regulatory requirements at the time, and it has now been superseded by the new Building Regulations Part O, which became effective in June 2022.

Kidbrooke Village

Balancing our impact

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

Since May 2017 we have purchased Renewable Energy Guarantees of Origin (REGOs) to certify that 100% of UK electricity is from a renewable source (i.e. solar, wind or hydro power). Berkeley has also voluntarily offset emissions from our sites, offices, sales suites, modular factory and business travel (scopes 1 and 2) on an annual basis, making our day-to-day business activities 'carbon neutral'. This year we used a verified reforestation project that directly removes carbon from the atmosphere rather than one that avoids additional emissions. This project is in alignment with the Science Based Targets initiative (SBTi) criteria for the type of carbon credits required to achieve Net Zero status.

Our approach to offsetting is being reviewed as part of a wider Net Zero strategy for the business, setting out the actions we will take to become a net zero business.

Task Force on Climate-Related Financial Disclosures (TCFD)

We have supported the recommendations of the TCFD since 2018, and this year have completed detailed Climate Scenario Analysis which has helped us to further understand and enhance our disclosure around the risks and opportunities that climate change presents to our portfolio and business activities, but also demonstrates how Berkeley already designs its places and buildings to mitigate long-term climate change risks. Of the identified transitional risks and opportunities, there are seven which have a potentially greater impact on Berkeley. Against these, the Group has relatively low residual exposure to transition risk in the short term (2023), which could moderately rise in the medium term (2030). We have also undertaken a comprehensive physical risk analysis of our land holdings against current and future climate scenarios with the support of Willis Towers Watson (WTW).

For further details see our 2022 TCFD disclosure here.

We will use the output of the Climate Scenario Analysis undertaken this year to continue to monitor climate resilience in future homes and developments we build.

Green Finance Framework

This year we have created a Green Finance Framework (the "Framework") to support the issuance of Green Debt (Bonds and Loans). The establishment of this Green Finance Framework allows us to fund investment in our developments with environmentally and socially impactful and transparent debt instruments, underpinning our commitment to align our financing strategy with our broader environmental and social commitments. This approach to financing is fully reflective and complementary in nature to our responsible management and development ethos. In doing so, we are supporting the growth of the green debt market, which we see as a critical tool for driving the decarbonisation and sustainability agenda as well as meeting the commitments of the Paris Agreement on global climate action.

For further details see our Framework and reports available here.

UKGBC Advancing Net Zero Programme

We are partners of the UK Green Building Council's Advancing Net Zero (ANZ) programme, aiming to help deliver the transition towards a low carbon economy and to achieve the required emissions reductions in the construction and property sectors in the UK. This demonstrates Berkeley's leadership and drive to achieving net zero in our buildings and in the residential sector.

By collaborating with a wide range of sectors and with representatives of the entire value chain, we are able to share experiences and learn lessons that can influence the design of new buildings as well as future retrofits of the existing housing stock.

2.5

Case Studies

Low carbon concrete in use at The Eight Gardens

Berkeley partnered with Aggregate Industries' subsidiary London Concrete to use carbon neutral concrete on The Eight Gardens development in Watford.

More than 4,000 m^3 of the EcoPact Prime concrete were used for the piling works, resulting in a carbon reduction of up to 70% compared to standard CEM I concrete due to the higher percentage of ground granulated blast-furnace slag (GGBS). Additionally, Berkeley worked with Aggregate Industries to offset the remaining carbon emissions, thus becoming the first EcoPact Zero project.

These types of innovations on our sites help us to take significant steps towards our objective of reducing carbon emissions from the embodied carbon of our materials.

Hybrid machinery and biodiesel HVO

At Kidbrooke Village, we partnered with our groundworks contractor, DJ Civils, to trial a combination of hybrid excavators and biodiesel HVO. Hybrid machines are able to recover kinetic energy and reuse it to reduce the load on the engine, thus reducing fuel consumption.

The outputs of this trial were compared to similar works using standard practice on the same site. The team found that using a combination of biodiesel HVO and hybrid machinery led to a 32% reduction in fuel use and an 89% reduction in carbon emissions over standard practice.

The findings from this trial have been shared internally and with other contractors to show the benefits of hybrid equipment and biodiesel HVO, and encourage their adoption where an electric alternative (which remains our preferred option) is not available.

Low-carbon intensive power generation

Early connection to mains electricity is Berkeley's preferred practice to reduce the use of fuel on site and carbon emissions. On one of our sites where a temporary electricity supply connection was not possible, the team worked with the supplier to find a comprehensive and less carbon-intensive approach to power generation. Their solution was to replace two 150 kVA generators with two smaller ones (60 kVA), coupled with a battery storage unit (to store energy when the generators run and provide power at night and weekends) and two flywheels (to manage the peak loads). This solution provided a more sustainable alternative than having the two 150 kVA generators running 24 hours a day. In addition, the team used biodiesel HVO as a replacement for diesel.

The approach has resulted in carbon savings of approx. 5,000 $kgCO_2$ per week so far, with an estimated carbon saving of circa 140 tCO_2 over the intended period of hire.

The Eight Gardens, Watford

Hybrid excavators, Kidbrooke Village

Low-carbon power generation, The Green Quarter

"Lessons learned from trials have been shared internally to show best practice towards our science-based target to reduce carbon emissions from direct operations by 50% by 2030 compared to the 2019 baseline."

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2.6

Performance tables

Table 1.1: Progress against our science-based targets (SBTs)

Target			2021-22	2020-21	2019-20	2018-19
Reduce absolute scopes 1 and 2 GHG emissions 50% by FY2030 from a FY2019 base year	Absolute scopes 1 and 2 (market-based) emissions	tCO_2e	2,211	2,549	3,375	3,980
	Change from base year	%	-44	-36	-15	N/A
Reduce scope 3 purchased goods and services and use of sold products GHG emissions 40% per square metre of legally completed floor area by FY2030 from a FY2019 base year	Absolute scope 3 emissions (categories 1 and 11)	tCO_2e	1,125,843	1,041,555	976,685	1,096,682
	Scope 3 emissions intensity	tCO_2e/ 100sqm	312	390	360	321
	Change from baseline year	%	-3	22	12	N/A

NOTE: Emissions are reported in line with the operational boundary of the Group and include 100% of emissions resulting from joint venture activities.

Table 1.2: Scopes 1 and 2 greenhouse gas (GHG) emissions and energy consumption

		2021-22	2020-21	2019-20	2018-19
Scope 1 emissions	tCO_2e	1,974	2,353	3,215	3,808
Scope 2 (location-based) emissions	tCO_2e	5,858	6,385	5,967	6,246
Scope 2 (market-based) emissions	tCO_2e	237	196A	160	172
Scopes 1 and 2 (location-based) emissions	tCO_2e	7,832	8,738	9,182	10,054
Scopes 1 and 2 (location-based) emissions intensity per 100 square metre of legally completed floor area	tCO_2e/ 100sqm	2.17	3.27	3.38	2.94
Scopes 1 and 2 (market-based) emissions	tCO_2e	2,211	2,549	3,375	3,980
Scopes 1 and 2 (market-based) emissions intensity per 100 square metre of legally completed floor area	tCO_2e/ 100sqm	0.61	0.95	1.24	1.16
Energy consumption associated with scope 1 emissions	MWh	9,133	9,624	12,813	13,712
Energy consumption associated with scope 2 emissions	MWh	27,202	27,209	23,174	21,969
Energy consumption associated with scopes 1 and 2 emissions	MWh	36,335	36,833	36,986	35,681
Energy consumption associated with scopes 1 and 2 emissions that is from renewable energy sources	%	76	73	64	60
Purchased electricity backed by Renewable Energy Guarantees of Origin (REGOs)	%	99	99	99	99
Purchased electricity in the UK backed by Renewable Energy Guarantees of Origin (REGOs)	%	100	100	100	100

Table 1.3: Operational energy– breakdown by fuel type

		2021-22	2020-21	2019-20	2018-19
Gas oil	%	11	15	22	29
Purchased electricity	%	74	76	64	66
Natural gas	%	6	7	7	4
Biodiesel	%	3	1	1	0
Purchased heat, diesel and other fuel types	%	6	1	7	1

Table 1.4: Low Carbon Homes

		2021-22	2020-21	2019-20	2018-19
Completed homes with an Energy Performance Certificate (EPC) rating of B or above	%	89	96	95	93
Average Energy Performance Certificate score (derived from SAP)	#	83	84	84	85
Average Dwelling Fabric Energy Efficiency (DFEE) of completed homes (This data is only known for homes built to Part L 2013 Building Regulations)	kWh/ m^2/ year	39.89	39.78	39.48	39.69
Average Dwelling Emission Rate (DER) of completed homes	$kgCO_2$/ m^2/ year	12.85	12.00	12.44	11.72
Average percentage improvement in DER over Target Emission Rate (TER) for completed homes	%	31	33	30	34
Completed homes supplied with energy from low carbon or renewable technology	%	68	70	70	72
Live development sites installing photovoltaic (PV) panels	%	54	52	49	50
Live development sites installing air source or ground source heat pumps	%	18	16	8	6

Table 1.5: Climate Change Resilience

		2021-22	2020-21	2019-20	2018-19
Live development sites incorporating Sustainable Drainage Systems (SuDS)	%	92	91	94	98
Live development sites that have completed an overheating risk assessment	%	68	(data not gathered)	59	52

Table 1.6: Balancing our Impacts

	Unit	2021-22	2020-21	2019-20	2018-19
Number of verified carbon credits procured for voluntary offsetting of scopes 1 and 2 (market-based) emissions	#	2,322	2,675	3,543	4,179
Percentage of scopes 1 and 2 (market-based) emissions offset by verified carbon credits	%	100	100	100	100

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3.0

Communities

Clarendon

"We take challenging and complex brownfield sites, and turn them into great places where people can thrive."

Grand Union

3.1

Communities

People are at the heart of the places we create. We transform complex sites into welcoming neighbourhoods where people want to live, and which provide a lasting social impact. From the start, we support the formation of strong communities on our developments, connecting residents and neighbours, and helping to weave each site in with its surroundings.

Our focus on bringing unloved and underused spaces back to life unlocks a mix of social, environmental, economic and commercial value that benefits all of our stakeholders. Using our expertise and resources, we take challenging and complex brownfield sites, and turn them into great places where people can thrive. Partnering with local people and councils, the places we design are popular and unique, with community amenities and infrastructure, and once more connected with their surroundings.

Communities is one of our ten strategic priorities for Berkeley Group and is integrated into our business strategy Our Vision 2030. Over the last year we have focused on launching our new social value tool and ensuring all our large regenerations sites have a community plan.

Our Goal

To transform underused land into unique, well-connected and welcoming places where people and communities can thrive.

Our Targets

We have set three key targets under communities:

- Measure the social value of each of our developments and increase our impact over time
- Produce a community plan for each of our large regeneration sites
- Encourage sustainable lifestyles through the design of our homes and places

This year's highlights

19
large-scale regeneration sites (100%) have a community plan in place

13
developments measuring Social Value

Launch of our Social Value Tool

to support the design of our developments

Berkeley Group | Sustainability Report 2022

3.2

Progress against our action plan

Social Value

This year we launched our pioneering social value tool, which has been developed to provide our design teams with unique insight into local needs and context. The tool helps to ensure that we design our developments to include the features and facilities which will bring the greatest benefit for the local area.

Designing a place is a balancing act to ensure we provide the right amenities and infrastructure to meet the needs of local people, whilst also transforming the place into a thriving community which will mature over time. The social value tool provides our teams with a way to quantify and compare the impact of different design options on issues such as active lifestyles and community facilities, and to challenge the design in order to maximise benefits.

The tool uses a range of indicators to quantify impact. The methodologies behind each indicator are evidence-based and the outputs take into account location specific insights. The tool was developed in partnership with Social Value experts Route2.

The tool builds on our previous work on social sustainability and complements other strands of our work, such as community engagement and community plans, giving us a robust and holistic approach to community building.

Kidbrooke Village

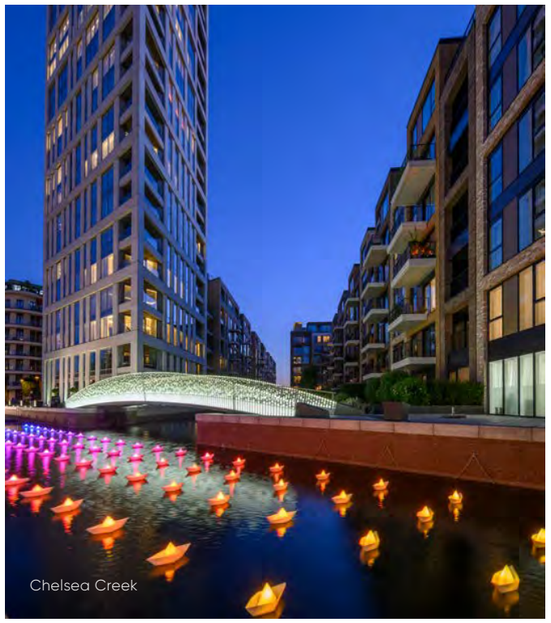
Community Plans

We know that it takes time to build a community and that we need to facilitate this in the first few years of a development. This is why we have set a target to develop and implement a community plan on all our large-scale regeneration sites.

Our community plans guide our teams in bringing together new and existing communities. Every plan is bespoke, built on community engagement and underpinned by research into community priorities and development of a shared vision. It identifies opportunities for activities, projects and partnerships, which help to support the development of a thriving new neighbourhood, where locals can meet and feel a sense of belonging.

Our community plans help to ensure that community relationships are embedded so that the developments continue to thrive after we have left.

All of our large-scale regeneration sites where residents have moved in now have a community plan in place.



Chelsea Creek

The Green Quarter

3.3

Case Studies

Community Centre at Grand Union

Our Grand Union development is transforming a former industrial estate into a community of over 3,000 homes, with 13 acres of open space including a canal-side park.

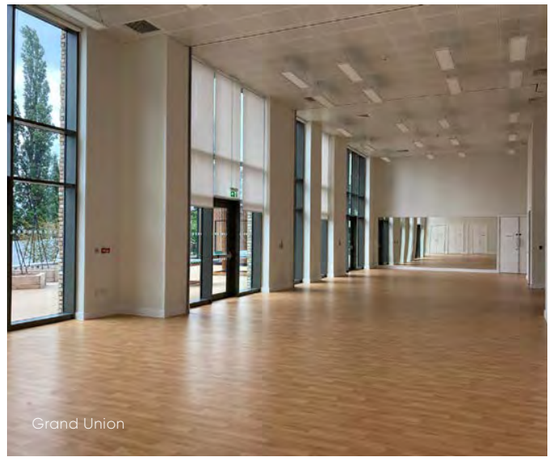
Consultation between St George and local stakeholders found there was need for a community centre in the area. Designed in collaboration with local residents, the centre has now been delivered as part of the first phase of the site, providing a focal point to integrate the new and established communities and build a sense of place at Grand Union. The centre offers 5,000 sq ft of flexible spaces for activities, such as classes, workshops, events and performances. It is managed by a community trust, set up by St George, which includes residents and local businesses.

Building a community at Woodhurst Park

Woodhurst Park is a development of 750 homes set in a 65 acre country park in Berkshire. Five years after the first homes were occupied, a flourishing community is already in place.

Berkeley Oxford and Chiltern developed a community plan for the site and our community champion worked with residents to organise events such as a street party, nature walk and barbecue. These provided an early opportunity for local people to get to know their neighbours and start to build a community.

The landscaping at Woodhurst Park has also supported the development of the community, where initial events focused on Woodhurst Park's green spaces: the Village Green and Country Park. The Woodhurst Park community now has its own momentum, although we continue to support their activities. Twelve residents are on the events committee, organising a thriving programme of activities around the year, from summer picnics to a Christmas party.



Grand Union

Woodhurst Park

"There is a real community spirit throughout the development and we are so happy here."

Woodhurst Park resident

Woodhurst Park

Woodhurst Park

3.4

Performance tables

Table 2.1: Transforming underused land

		2021-22	2020-21	2019-20	2018-19
Completed homes constructed on brownfield land	%	86	87	89	-
Live developments being constructed on brownfield land	%	85	84	76	85

Table 2.2: Social Value

		2021-22	2020-21	2019-20	2018-19
Sites undertaking a social sustainability assessment pre-planning *	#	N/A	N/A	13	19
Sites using our new social value tool	#	13	10 trial sites	N/A (tool not developed yet)	N/A (tool not developed yet)

*This has now been replaced by the new social value tool

Table 2.3: Community Plans

		2021-22	2020-21	2019-20	2018-19
Community plans in place on large-scale regeneration sites	#	19	-	-	-
Community plans in implementation on all sites	#	29	22	16	14

Table 2.4: Connectivity

		2021-22	2020-21	2019-20	2018-19
Completed homes with fibre broadband enabled	%	100	100	94	99

Table 2.5: Sustainable Living*

		2021-22	2020-21	2019-20	2018-19
Live development sites providing electric vehicle (EV) charging infrastructure	%	93	84	76	74
EV charging points that are active	%	47	53	62	70
EV charging points that are passive	%	53	47	38	30
EV charging points that are active	#	5,872	3,933	3,694	2,565
EV charging points that are passive	#	6,741	3,507	2,266	1,083
Live development sites providing cycle storage	%	100	100	100	100
Live development sites with initiatives to reduce personal car dependency and the environmental impacts of car travel, such as car clubs	%	42	data not gathered	data not gathered	data not gathered

*This data represents our live development sites which are still under construction.
The numbers in this table do not represent what has been delivered in the reporting year.

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4.0

Nature

Hartland Village

"Our sites are designed to support nature's recovery."

The Green Quarter

4.1

Nature

Bringing nature back into our communities is fundamental to our approach. Our landscape-led development enhances the environment and provides beautiful, friendly and sustainable places where people can interact with nature.

In recent years, we have formalised our approach to nature and we are proud that in 2016 we became the first homebuilder to commit to delivering a net biodiversity gain on every new site. We want to play our part in tackling the global biodiversity crisis and to create developments that work for nature and for people. Our sites are designed to support nature's recovery. We work in partnership with experts, such as the Wildfowl and Wetlands Trust and local Wildlife Trusts, as well as with local communities, to weave more ambitious and beautiful natural networks through all of our neighbourhoods, which give wildlife the conditions to thrive and include welcoming public spaces where communities can enjoy all the benefits of nature.

Providing residents with access to nature on their doorstep provides multiple benefits including improving their health and wellbeing and helping our developments to be more resilient to the effects of climate change, including helping to reduce the urban heat island effect, managing water more sustainably and storing carbon. Over the last year we have committed to created a 10% biodiversity net gain on all our new sites that have gone into planning and have launched a new guidance document to the business on how to incorporate more blue and green infrastructure into our developments.

Our Goal

To create a biodiversity net gain and make a measurable contribution to the natural environment on every development.

Our Targets

- Create a minimum biodiversity net gain of 10% on all our new developments
- Develop an approach on the other aspects of environmental net gain such as water and air quality by 2025
- Implement a strategy to achieve an environmental net gain on at least one of our sites, including improvements in air quality, water quantity and quality and biodiversity net gain by 2025

This year's highlights

164

acres of habitat creation or enhancement newly committed to biodiversity net gain

100%

of new sites (6no.) committed to deliver a biodiversity net gain greater than 10%

Founding member

of the Blue Recovery Leaders Group, set up by the Wildfowl and Wetlands Trust and supported by HRH the Prince of Wales

4.2

Progress against our action plan

Biodiversity Net Gain

This year, six new sites made a commitment to biodiversity net gain, bringing our total to 47, and covering an area of over 520* acres of created or enhanced habitat. This includes over 100 acres of nature-rich grassland, 170 acres of woodland and 52 acres of living roofs.

Since 2017, we have been designing our new developments to achieve a measurable biodiversity net gain, regardless of the site's context or former use. Last year we strengthened the commitment so that each new development will create at least a 10% biodiversity net gain.

We work with ecologists and landscape design experts to ensure preservation and enhancement of biodiversity is central to our approach to designing our developments.

*We also have an additional site at Milton Keynes with a significant area of habitat creation/ enhancement, which has been excluded from this figure due to the size of the site in comparison to our other sites.

Surface water management

This year we worked in partnership with the Wildfowl and Wetlands Trust to produce guidance on designing green and blue infrastructure into our developments to help manage surface water. The guidance includes best practice and integrated solutions to manage surface water, leading to blue and green infrastructure which will enhance biodiversity, and increase residents' connection with the natural world.

Wetlands at Berkeley Group

Last year, we were proud to be invited to be a founding member of the Blue Recovery Leaders Group, set up by the Wildfowl and Wetlands Trust and supported by HRH the Prince of Wales.

Wetlands are wonderfully biodiverse habitats, which provide food and shelter for birds, insects and other wildlife, as well as being home for a wide range of plants. As well as being places where people can connect with and enjoy nature, they offer a nature-based solution to climate change, and provide protection against floods, drought and pollution. Unfortunately they are disappearing three times faster than forests. The cross-sector Blue Recovery Leaders Group aims to help fight the climate, nature and wellbeing crisis by creating networks of healthy wetlands across the UK.

Across our developments we have:

- 37 sites incorporating wetland features
- 52 acres of wetland habitat planned or completed

Woodberry Down

Environmental Net Gain

Building on our industry-leading approach to biodiversity net gain, we are broadening our focus so that we deliver an even more valuable and holistic contribution to the environment on every site. We have committed to achieve environmental net gain on all our sites by 2030, leaving the natural environment in a measurably better state than it was before.

In the last year, we have identified four priority areas where the pressures on the environment are greatest and where we can have most impact: Water, Climate, Pollution, and Ecology. These will form the core of our approach to environmental net gain.

Starting our work on water, this year we have partnered with Thames Water to explore what water neutrality should mean for our sites and how it can be applied in practice. At Royal Exchange in Kingston, we are currently undergoing the first large-scale water neutrality trial of its kind; around 45,000 litres used per day by our customers is being offset through the upgrade and retrofit of water fittings in local homes, schools and businesses. This project will be complete over the next year.

In the coming months, we will be developing and trialling further approaches for key issues in each of the priority areas for Environmental Net Gain.

London Dock

> "Last year we strengthened our commitment so that each new developmentwill create at least a 10% biodiversity net gain."

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4.3

Case Studies

Celebrating the seasons at White City Living

At White City Living we are bringing five acres of park to the urban landscape of West London. A network of gardens and water landscapes will wind through the site, drawing on the rich history of the area, and inspired by the Japan-British Exhibition of 1910.

The gardens are designed to showcase the seasons, with flowering cherry blossoms in Spring Park and fiery colours in the Autumn Garden. A wide variety of plant species will provide habitats and food for wildlife throughout the year, even in the depths of winter, when flowering heather and witch hazel will be in bloom.

Corridors of semi mature trees, shrubs and perennial plants will connect the landscaped gardens and a mixed native hedge forms a wildlife corridor at the edge of the development.

Water will animate and connect the development, creating movement, sound and reflections across the site and supporting aquatic plants and wildlife, such as dragonflies.

At White City Living we have:

- 5 acre public park (3.5 acres delivered so far)
- 400 trees from 40 different species
- Planting to support wildlife year round
- 63% biodiversity gain in phases 1-3
- 20,500 shrubs and perennial plants in phases 1-3

Cator Park – tracking our biodiversity net gain

This year we have undertaken a review of the impact on nature of our landscape at Cator Park, part of Kidbrooke Village.

The award-winning park was designed by HTA Design in collaboration with Berkeley East Thames and the London Wildlife Trust to establish a nature-rich landscape which would benefit biodiversity and the local community. It was the first development to achieve a biodiversity net gain on site.

The North section of the park was completed in 2019 and in the last year the London Wildlife Trust has undertaken a condition assessment of the site, to confirm that Cator Park is on track to reach the predicted biodiversity net gain. They have identified where habitats are doing well, and how to improve the habitats which are not thriving as well as expected. Lessons learned will be used in South Cator Park as the work there continues.

Overall, the habitat value on North Cator Park has nearly doubled, with current biodiversity net gain at 99% over the baseline. This demonstrates that our plans are having a positive effect on nature at Kidbrooke Village, as well as providing public space where the local community can relax and enjoy the natural environment.


White City Living


Cator Park, Kidbrooke Village

Nature at The Green Quarter

At The Green Quarter in Ealing, we are transforming a former gasworks and parking site, with 3,750 homes and a landscape of wetlands, parks, community areas and open green spaces, providing varied habitats for wildlife, as well as attractive landscape for residents and the broader community.

When completed nearly half of the site will be open space, including 13 acres of biodiverse parks and wetlands.

We are making The Green Quarter welcoming to a wide range of priority species – from butterflies, finches and thrushes to a variety of aquatic, marsh and flower rich grasslands. We are also connecting the area to Minet Country Park, a site of importance for nature conservation, by installing bridges across the canal.

Two areas of gardens will provide a range of habitats and we're working with the London Wildlife Trust to maximise the benefits to nature of the planting. The central gardens have been designed to begin as urban, gradually transforming into an area of wetlands as the park reaches the canal. The wetlands will be wilder and provide a haven for nature, with over 1.5km of streams running through the centre of the site.

We have already opened the towpath along the canal to the public, along with nearly 1.5 acres of the Central Gardens.

At The Green Quarter we have:

- Removal of invasive species
- Planting designed to maximise the benefits to nature
- 44% acres of open space, including 13 acres of parkland
- Over 93% forecast biodiversity net gain
- 1.5km of streams will run through the site; this and wetland areas will provide habitat for aquatic species and insects


The Green Quarter

Edenbrook Country Park

4.4

Performance tables

Table 3.1: Biodiversity net gain

		2021-22	2020-21	2019-20	2018-19
Developments committed to a biodiversity net gain to date (cumulative)	#	47	41	34	25
Area of habitat committed for creation or enhancement (cumulative)	acres	521*	357*	337	301
Developments submitted to planning which have committed to deliver a biodiversity net gain	#	6	7	9	9
Area of habitat creation or enhancement committed to biodiversity net gain	acres	164	20*	37	98
Developments newly committed to deliver biodiversity net gain on site	%	100	100	100	100
Developments newly committed to deliver biodiversity net gain off site	%	0	0	0	0
Developments newly committed to deliver a biodiversity net gain greater than 10%	%	100	100	89	89
Developments newly committed to deliver a biodiversity net gain greater than 20%	%	83	71	78	78

*A significant area at Milton Keynes has been excluded from these figures due to the size of the site in comparison to our other sites.

Table 3.2: Environmental net gain

		2021-22	2020-21	2019-20	2018-19
Average internal water efficiency of completed homes	litres per person per day	104.2	104.5	102.7	102.6
Live development sites including rainwater harvesting	%	76	70	72	74

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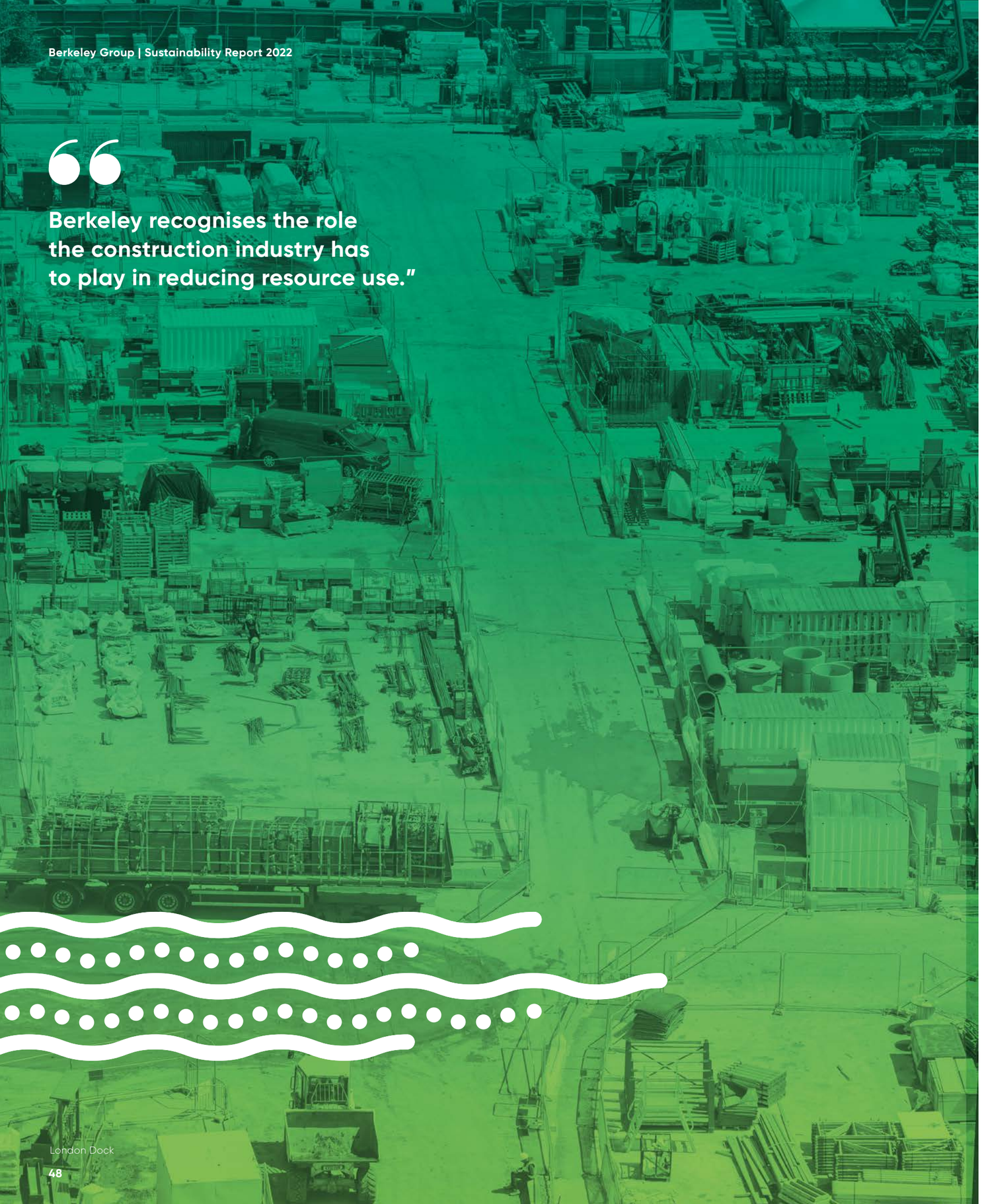
5.0

Resources

Horlicks Quarter



"Berkeley recognises the role the construction industry has to play in reducing resource use."

London Dock

5.1

Resources

Each year the construction industry consumes nearly 400 million tonnes of materials and produces approximately 100 million tonnes of waste. It is the UK's largest consumer of natural resources and accounts for around a third of UK waste production.

Berkeley recognises the role the construction industry has to play in reducing resource use and cutting waste and is committed to using resources responsibly, including tackling waste production, reducing our water use and sourcing our materials responsibly.

Over the last year we have been working with the business to implement a new waste strategy whilst also driving down the waste produced from our construction sites.

Our Goal

To reduce our impact on key resources including water and materials, to design to the principles of circular economy and collaborate with our supply chain to work towards zero waste construction sites.

Our Targets

We have set four key targets under resources:

- Aim to reuse or recycle 98% of our total waste (excluding hazardous waste) by 2025 from our sites
- All sites to measure and report on our key waste streams and set reduction targets
- Operate zero avoidable waste construction sites by following the principles of circular economy. We will aim to achieve this by 2030
- Operate water efficient sites and offices and achieve a year-on-year reduction in water use

This year's highlights

40%

reduction in construction waste intensity (tonnes/ 100 sq m of legally completed floor area) compared to 2020/21

21%

reduction in water intensity (m^3/100 sq m legally completed floor area) compared to 2020/21

> 4,500

tonnes of materials reused on site

18%

reduction in construction waste compared to 2020/21

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5.2

Progress against our action plan

Waste production

Berkeley aims to preserve resources by embedding efficient resource use and waste minimisation practices in its day-to-day processes.

In the last year, we have developed a Waste Action Plan, focussing on preventing the generation of waste to achieve Zero Avoidable Waste by 2030, driving circular economy models, increasing reuse and recycling rates and advocating resource efficiency with our customers. We are investing in new waste data records software, with the aim of enhancing monitoring and reporting and defining more accurate targets.

We are also exploring ways to increase contractors' accountability and ownership of waste, which is proving effective to reduce waste and increase segregation.

As a result of our efforts, this year we have reduced the construction waste generated by 18% compared to last year. That has resulted in a reduction of approximately 40% of our construction waste intensity (tonnes of construction waste per 100 sq m of legally completed floor area) compared to last year.

Water usage

We recognise that water is a key resource that needs to be preserved, especially in light of climate change and a growing population. In addition to our efforts to enhance the water efficiency of our homes, our construction teams are working with contractors to drive water efficiency at our sites.

We have produced resources and tools to help site teams reduce water consumption and we monitor water usage to better understand trends and drive continuous improvement.

This year our total water consumption has increased compared to last year. This has prompted further review of the measures we use on site to reduce our water use, which has highlighted measures that could be rolled out across sites, for example water-efficient dampening down, reuse of rain water and grey water, more efficient taps or leak detection.

Material management

Green Park Village

Timber certification

Berkeley requires all timber to be certified to either the Forest Stewardship Council (FSC) or Programme for the Endorsement of Forest Certification (PEFC) scheme and we have a strong preference for all wood-based products to be either FSC or PEFC certified. This is a key requirement of our Sustainable Specification and Procurement Policy.

We implement measures and processes to ensure we achieve our target, from reviewing specifications to checking materials brought to sites and visiting our suppliers' manufacturing facilities and yards to check the timber they use. We are also keen to share lessons learned across the business from any non-compliances identified in our reviews.

This year, we have introduced a new metric (percentage of products supplied by FSC or PEFC certified suppliers) which communicates a clearer picture of the level of certification of the suppliers and products we use in our developments.

The timber audit conducted this year shows that 90% of materials were FSC or PEFC certified, including both timber and wood-based products.

Further to the audit, our sustainability teams have discussed the non-compliances with commercial teams and with contractors and suppliers to ensure those are addressed going forward. Measures taken vary from the replacement of the products to the review of the tender packages and specifications to make sure our requirements are applied consistently for both directly-procured and contractor-purchased products.

Supply chain engagement

Working with our supply chain is key to achieving our goals and to identify solutions to deliver resource efficiency.

At an early stage we engage our designers and consultants to design out waste from our developments, for example by retaining existing structures and reusing materials already available on site. We also challenge teams to achieve better resource efficiency via design and by selecting appropriate construction technologies.

During tendering and construction, we work with key suppliers and contractors to activate partnerships and to develop more efficient practices for material use and waste management and minimisation.

We are also a partner of the Supply Chain Sustainability School (SCSS) and members of their Homes and Waste & Resource Use working groups, which are important forums to share experience and work with contractors, suppliers and other housebuilders to drive performance improvements across the value chain.

5.3

Case Studies

New approach to waste management at The Royal Exchange

The team at The Royal Exchange are working with their logistics contractor to better control the production of waste on site by using real-time technology to monitor behaviours and encourage more accountability and ownership of waste between trade contractors.

Each trade contractor is allocated a certain number of waste bins, which are agreed as part of their contract. Each bin has a unique ID so that the logistics contractor can track how many bins have been used and what waste is generated by each trade. Contractors are rewarded for using fewer bins than anticipated, while they are charged if they exceed the agreed number.

Increasing contractors' accountability and being able to have real-time waste data has resulted in a 17% saving in waste removal and disposal costs.

This approach is also helping us gather valuable data that will allow us to estimate waste in future projects and define targets for each trade.

Materials reuse on site

Our site teams are always looking for opportunities to prevent waste and reuse materials on site.

When carrying out the pre-demolition audit at their Hildenborough site, the Berkeley Southern Counties East team saw the opportunity to retain some of the materials for reuse. Materials included 1,800 sheets of insulation (approx. 1,300 m^3), which has been stored for future use as a void former, and roughly 150 metres of timber handrail, which will be restored and reused in the building. The team also re-used a large number of doors, WC cubicles, sanitary ware and FF&E (furniture, fixtures and equipment) from the existing building to fit out the welfare area of the site.

The Berkeley St Edward team at Oval Village demonstrated another great example of materials reuse on site. The bathroom pods delivered to site were provided with temporary doors to ensure their protection. When these doors were no longer needed, the team made use of them to provide protection for risers, avoiding the need to procure additional materials, and repurposing products otherwise destined to be skipped.


Material management


Hildenborough

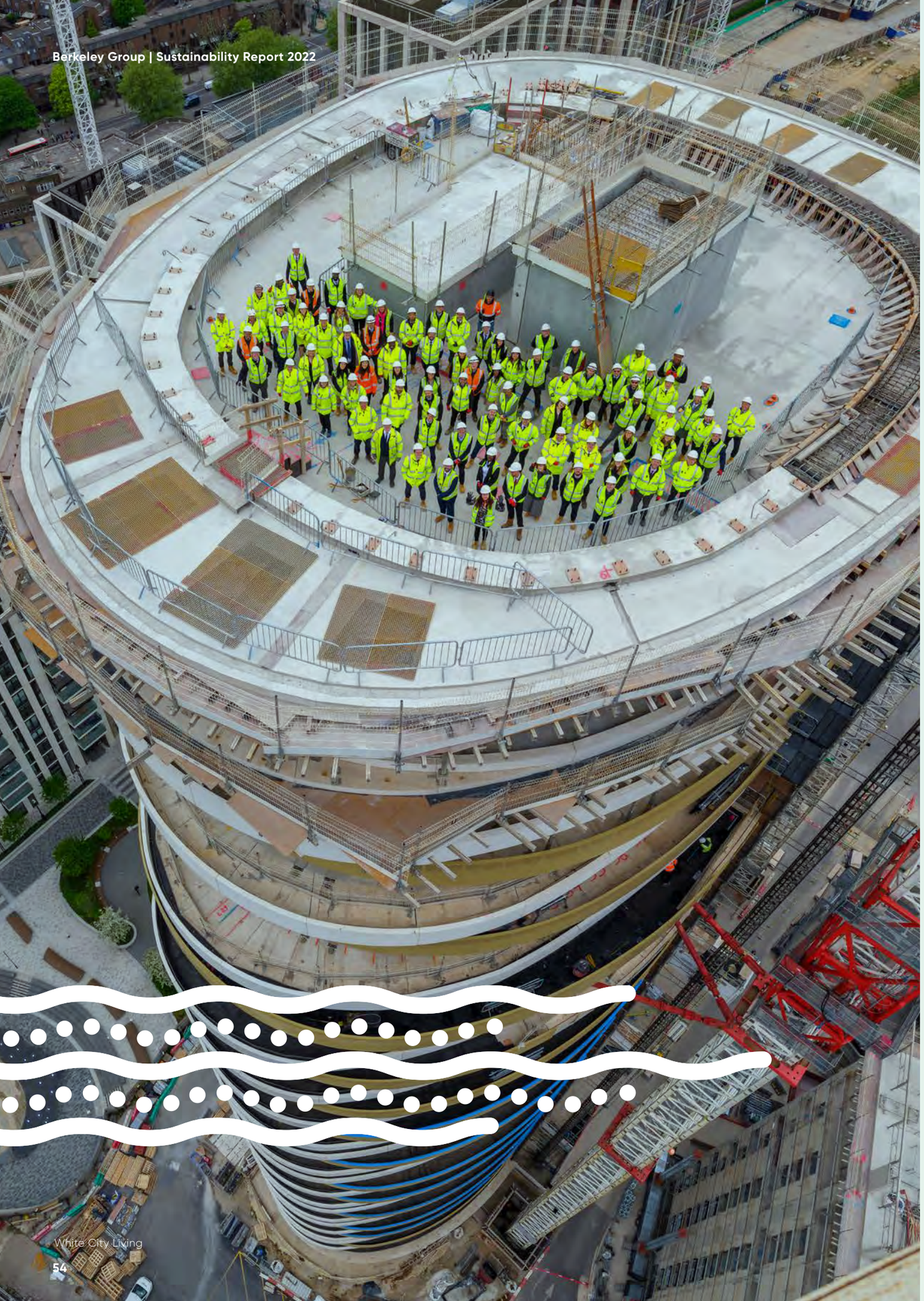
Circular economy pallets in use at Trent Park

It's estimated that the construction industry in the UK uses more than 18 million pallets a year, with the majority only being used once. The team at Trent Park have been trialling reusable pallets from Pallet Loop, a company which has developed a deposit-based scheme to enable recovery, repair and reuse of pallets in the UK construction sector. To ensure their pallets are fit for purpose, Pallet Loop worked with the team at Trent Park to test two pallet specifications that are likely to form the backbone of the supply of Loop pallets to the industry.

The team found the pallets of good quality and very functional and have subsequently ordered 50 more. These will be moved to another site at the end of the project, or can be returned to Pallet Loop in exchange for the deposit paid when the pallets were ordered. If returned to Pallet Loop, pallets will then be repaired and reissued, thus enabling a circular economy service.

Trent Park

> "Increasing contractors' accountability and being able to have real-time waste data has resulted in a 17% saving in waste removal and disposal costs."



5.4

Performance tables

Table 4.1: Waste production

		2021-22	2020-21	2019-20	2018-19
Total waste generated (construction, demolition and excavation)	tonnes	734,320	382,824	637,509	709,311
Total waste reused or recycled	tonnes	659,658	362,227	573,724	644,608
Total waste reused or recycled	%	90	95	90	91
Total waste classified as hazardous	tonnes	5,669	2,602	13,689	84,927
Total waste sent directly to landfill	tonnes	56,469	9,666	46,882	53,055
Construction waste generated*	tonnes	126,765	154,409	177,572	142,648
Change in construction waste generated from prior year	%	-18	-13	+24	-
Construction waste reused or recycled	%	95	96	95	95
Construction waste classified as hazardous	tonnes	606	397	1,210	722
Construction waste intensity per 100 square metre of legally completed floor area	tonnes/ 100 sq m	35	58	65	42
Change in construction waste intensity from prior year	%	-40	-11	+57	-

* Construction waste includes piling waste, resulting in soils accounting for approximately 20% of the presented figures. This classification is under review and may change from next year.

Table 4.2: Water usage

		2021-22	2020-21	2019-20	2018-19
Total water consumption across sites, offices, the modular factory and sales suites	m3	256,635	240,232	214,517	224,443
Change in water consumption from prior year	%	+7	+12	-4	-
Site water consumption*	m^3	221,962	221,038	195,444	202,038
Office water consumption	m^3	9,831	8,743	11,826	13,850
Sales suite water consumption	m^3	24,842	10,452	7,247	8,555
Water consumption intensity per 100 square metre of legally completed floor area	m3/100 sq m	71	90	79	66
Change in water consumption intensity from prior year	%	-21	+14	+20	-

* Including water consumption at Berkeley Modular's factory

Table 4.3: Responsible sourcing

		2021-22	2020-21	2019-20	2018-19
Developments meeting the target of 100% FSC or PEFC certified timber	%	KPI replaced with below	(data not gathered)	66	68
Products supplied by FSC or PEFC certified suppliers	%	90	-	-	-

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6.0

Environmental management

We have developed a robust framework to identify, understand and manage the environmental issues on and around our construction sites."

6.1

Environmental management

Environmental management is a key area of focus for Berkeley, given the possible risks to the natural and built environment and potential disruption to local residents that construction activities present, if not controlled. We have developed a robust framework to identify, understand and manage the environmental issues on and around our construction sites as well as the legal requirements that we must adhere to.

Our site teams are aware of the environmental risk on each site as they are provided with training and each site has an environmental risk register. Our local sustainability teams also undertake regular checks and quarterly audits.

Over the last year we have had no environmental prosecutions and have launched an evolved site sustainability assessment process.

Our Goal

To identify and manage environmental risks on site, to avoid incidents and reduce the impact of our construction site activities on the environment and local communities.

Our Targets

We have set two targets under environmental management:

- To measure environmental incidents and near misses and identify ambitious incident rate targets that work towards us achieving zero incidents
- To implement a site assessment target score and identify measures for continual improvement to meet the target

This year's highlights

0

environmental prosecutions in 2021/22

14.42

Berkeley's average score for the 'Care for the Environment' section of the Considerate Constructors Scheme (industry average 12.59)

Launch of an evolved

Site Sustainability Assessment Process

6.2

Progress against our action plan

Sustainability Management System

Our approach is underpinned by a set of Sustainability Standards and our Sustainability Management System (SMS). The Standards outline our approach to managing sustainability issues relating to all business activities, from planning through to construction, marketing and handover.

The SMS aims to ensure we understand and mitigate risks and disruptions to the environment and community caused by construction activities, including nuisance, pollution and environmental regulation breaches. It also provides the basis for a systematic and consistent approach to environmental management, to be delivered in conjunction with our contractors.

Procedures and standards are regularly reviewed to ensure they are up to date to meet regulations as well as requirements set out by our internal policies. Procedures and standards are also shared with our contractors prior to them commencing on site. Contractors are required to sign up to our Sustainability Standard for Contractors and provide evidence of how they can support Berkeley in achieving continuous improvements and best environmental management practices on site.

This approach and our focus on environmental management on site has contributed to our sites achieving an average score of 14.42 in the 'Care for the Environment' section of the Considerate Constructors Scheme, compared to an industry average of 12.59.

Environmental assessment process

Each site goes through a robust assessment process to identify environmental risks and opportunities. This process ensures sites meet legal and planning requirements, whilst also implementing best practice to minimise and, where possible, prevent negative impacts on the environment and communities. The assessment is repeated at least quarterly throughout the construction process to cover all stages of development and to be able to respond to the varying setup and activities on site. Informal site visits and bi-weekly checks are also carried out to ensure that good environmental management practices are consistently implemented.

This year, we have introduced an evolved site sustainability assessment form that allows us to more readily compare sites across the Group. The assessment considers various performance indicators (such as waste and resource management, pollution prevention, energy and water efficiency, and nuisance) and generates an overall score, thus providing a simple way of understanding how each live site is performing.

We anticipate that this will help project managers identify areas for improvement and will encourage them to strive for excellence in order to be above the Group average. The new system will also help identify projects that have been able to significantly improve their score over time, and those requiring additional training or support.


Oval Village

Environmental incidents and near misses

Berkeley is committed to achieving zero significant or major incidents per year. Anything that causes harm beyond a small localised area of site or causing environmental consequences or nuisance beyond the site boundary would be classified as significant or major incident, depending on the extent of the impact on the environment or neighbours.

We implement processes and measures to meet this target, including rigorous checks of the pollution prevention controls and response plans in place on site as part of our regular sustainability assessments.

Sites are expected to be prepared to respond in the most appropriate manner. We deliver incident preparedness and response training to our staff and contractors to ensure the teams on site know what to do should an incident occur.

If an incident does occur, the causes are investigated and the lessons learnt are reviewed and shared across Berkeley to reduce the likelihood of reoccurrence.

We also focus on capturing near misses. Although near misses do not cause harm to the environment or people, they can offer the opportunity to identify behavioural aspects, areas for improvement and requirements for additional training.


Horlicks

"Berkeley is committed to achieving zero significant or major incidents (based on internal classification) per year."

Twelve Trees

6.3

Case Studies

Incident reporting and league table at Grand Union

The team at Grand Union has invested in software to allow a more streamlined process to report spills. These are then reviewed by the divisional sustainability team and submitted to Group. The change was introduced so that reporting is easier, and teams are encouraged to report given it is a more time-efficient process.

The team has also introduced a scorecard for the contractors responsible for the issues raised in the sustainability assessments and have created a league table. This has generated competition amongst trade contractors, resulting in better environmental management on site.

Algae response at Green Park Village

During the summer, the team at Green Park Village were notified of the presence of algae in the development's lake. Algae occurs naturally especially during summer months and settled weather, and is unrelated to site activities.

After collecting evidence, the team at Berkeley St Edward worked with two ecologist consultants who recommended engaging with the Environment Agency (EA). They conducted a site visit and confirmed the presence of blue green algae, a type of bacteria which can produce toxic chemicals that are harmful to health of people and wildlife. A number of management actions were agreed with the EA and have since been implemented.

Barriers and signage were put up and the team installed pumps to manage the issue, before testing and then removing the measures once the algae cleared. A permanent solution will be implemented to help prevent future occurrences.

Green Park Village

TwelveTrees

6.4

Performance tables

Table 5.1: Environmental incidents and near misses

		2021-22	2020-21	2019-20	2018-19
Number of environmental prosecutions	#	0	0	0	0
Number of environmental incidents – Berkeley internal rating (significant and major)	#	3	0	2	0

Significant incident: anything causing harm beyond a small localised area of site, minor environmental consequences beyond the site boundary or significant nuisance impacts beyond the site boundary.

Major incident: anything causing major environmental consequences that cannot be immediately rectified or contained, material environmental harm beyond the site boundary or any incident likely to result in enforcement action and likely to require external emergency services and regulatory authorities to respond in order to resolve the situation.

Table 5.2: Site sustainability assessments

		2021-22	2020-21	2019-20	2018-19
Sites subject to sustainability assessments at least every three months	%	97	(Due to Covid-19 data was not captured for this year)	94	92
Average site sustainability assessment score	%	82*			

* Performance based on the assessments carried out since the launch of the evolved Site Sustainability Assessment in 2021/22

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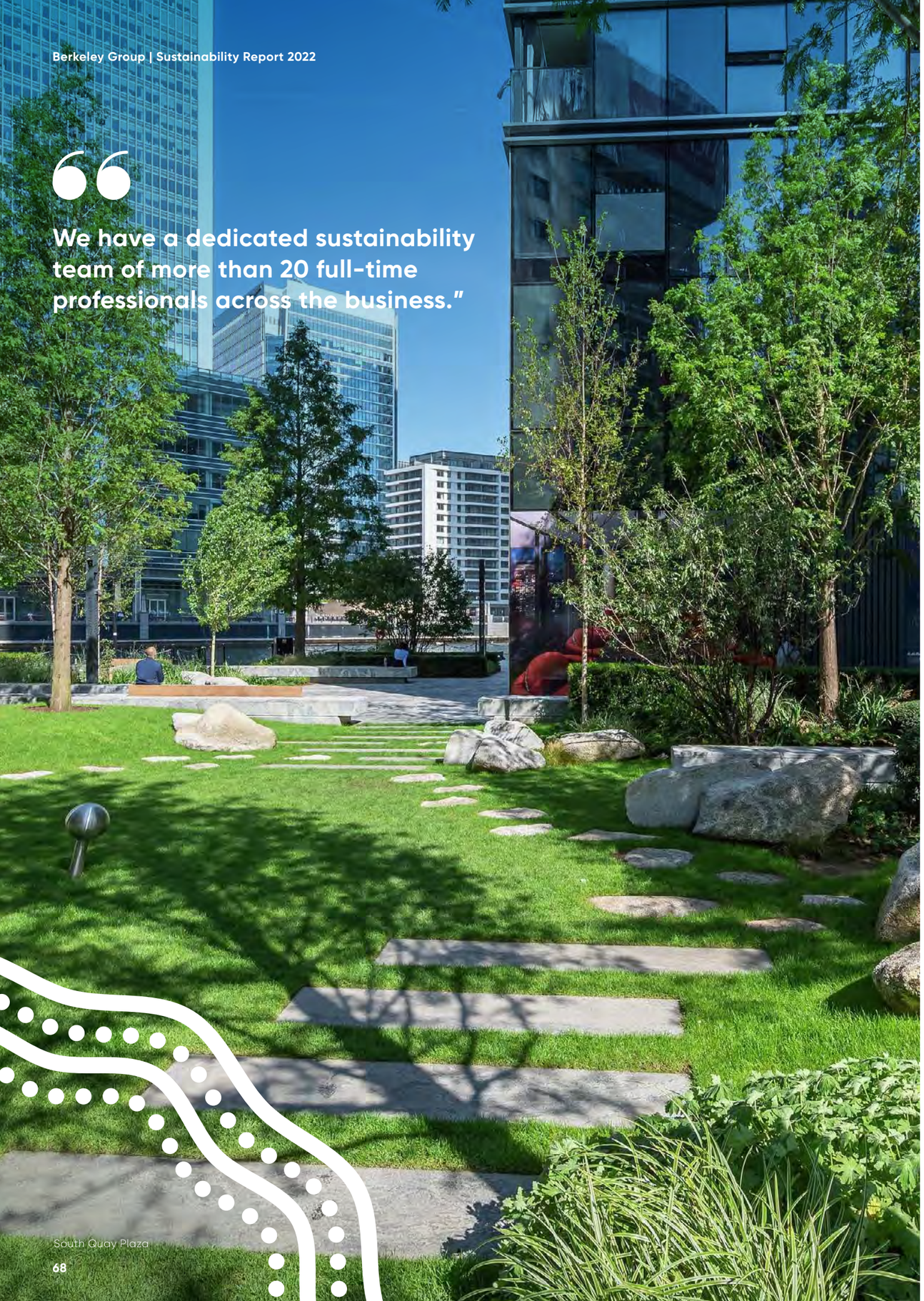
7.0

Governance

Our governance and management processes put our sustainability commitments at the centre of how we operate. They set out clear lines of responsibility, and detail sustainability actions and targets for each business function.

Broadacres, Southwater



"We have a dedicated sustainability team of more than 20 full-time professionals across the business."

South Quay Plaza

7.1

Governance

Ultimate responsibility for sustainability lies with the Main Board of the Berkeley Group. Executive Director, Karl Whiteman, has specific responsibility for sustainability at Board level.

We have a dedicated sustainability team of more than 20 full-time professionals across the business. They work with our operational teams to embed sustainability across the organisation. We also have a network of champions throughout the business who promote sustainable practices and help us achieve our sustainability goals.

We believe that every one of our employees has a duty to integrate sustainability into their own role and working practices. This is reflected in Our Vision 2030 which is Berkeley's ambitious strategy for the future and sets an exciting roadmap for the next ten years.

Through Our Vision 2030, sustainability topics are included in the business objectives of the Board and all employees.

Management

Sustainability policies, the strategy and standards are set at a Group level and provide a framework for delivering our sustainability objectives. Our standards for developments set out our requirements for our homes and places, which each project has to demonstrate compliance with when it goes into planning. We then set standards for our construction sites and our contractors.

Our Sustainability Management System (SMS) follows the principles of the ISO 14001 standard and ensures that our policies and standards are implemented across all our operating companies. This system includes procedures to manage sustainability at each stage of the development process, from land purchase, through design, procurement and construction, all the way to marketing, sales and handover.

Our sustainability management system is managed and updated by our sustainability team. The team is also responsible for ensuring implementation of the procedures, providing any necessary training and undertaking reviews and audits.

More information on our governance and management can be found on our website. **Find out more**

Berkeley Group

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