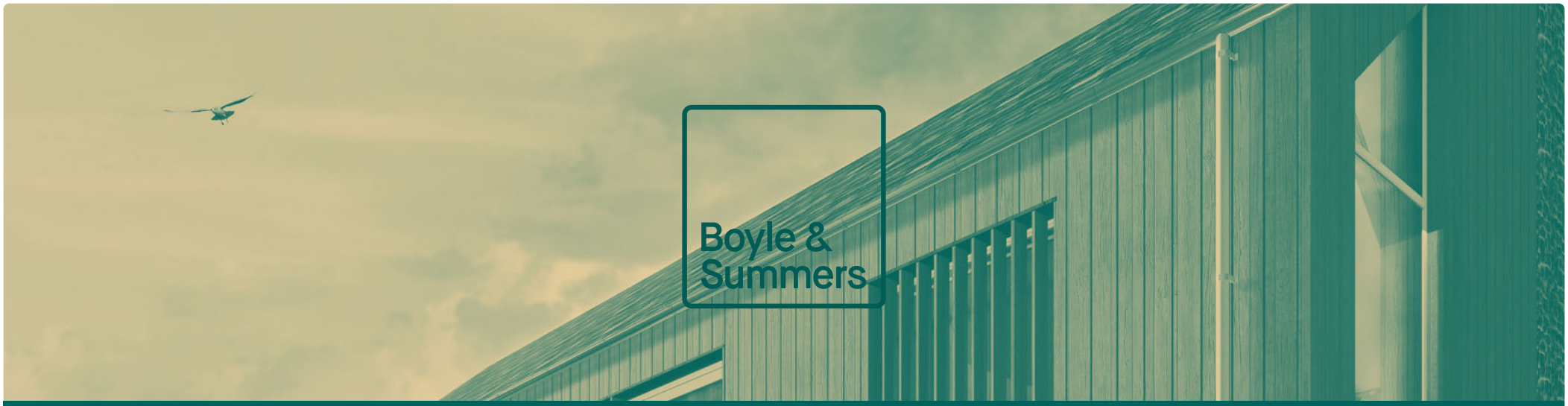

Boyle & Summers

Sustainability Report

2023

09/2023

Contents

- Central South Studio

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Southampton, Hampshire,
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- South West Studio

Future Leap Clifton, The Old Chapel,
16 Oakfield Road, Bristol
BS8 2AP

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Foreword

Welcome to Boyle & Summers 2023 Sustainability Report, our third publication, as we continue to share the journey of our commitment to act on the climate emergency.

This report covers our performance in 2022 and details the progress we have made, to date, against the operational and project carbon reduction goals set out in our 2030 Vision. By reporting and comparing our operational statistics for 2022 against those of 2021 and 2020, our benchmark year, we can assess and identify where further action is required.

In 2022 we continued to make progress, reducing our company emissions by 3 tCO_2e (14%) from 2021, despite an increase in business travel, as we returned to normal activity post-pandemic.

Having now completed two reports, and with our increased knowledge, we have reviewed the goals set out in our 2030 vision to make sure we have set ourselves aspirational but achievable targets.

We have reached a number of our operational goals partly through hybrid working, the use of two electric vehicles and a full year on a renewable electricity energy tariff. In December 2022 we moved to a new office in Southampton and in the next report we will compare the energy efficiency of our new premises. We are continuing to grow our presence in the South West, with a total of 6 projects to date, from a low energy private dwelling to a garden town master plan.

In 2022, we have seen an increase in clients engaging with the RIBA 2030 Climate Challenge targets. We also continue to learn, and educate ourselves on new ways to improve and record the impact of our projects. At the start of every project we aim to run through our sustainability toolkit with clients, to establish their whole life sustainability objectives and determine how far they want to go towards achieving a net zero development.

We have also won two awards since our last report. The first for Commercial Project of the Year at the South Coast Property Awards 2022 for Ocean Infinity's state of the art control centre and high-tech office facilities, recognised for its environmental credentials. The second for Sustainable Business of the Year at the Central South Business Awards 2023, celebrating our efforts in reducing our impact on the planet, unanimously voted for by future generations of sustainability champions at Havant College. Our sustainability champion Alex Watson has also qualified as a Passivehaus Designer.

As ever we recognise that we are still at the start of our journey. We must continue to work hard each year to make the necessary carbon reductions and do our part in keeping global emissions to acceptable levels.

If you want to hear more about our sustainability journey or how we can help with your low energy project, please don't hesitate to get in touch.

India Custance
Urban Designer

Who We Are

Boyle & Summers was founded in 2014 in Southampton following a management buyout by architect Tony Boyle and urban designer Richard Summers. The team has since grown in size and comprises experienced practitioners in architecture, urban design and masterplanning, and architectural technology. In addition, we now have a South West studio in a carbon neutral co-working space.

Our team works for a wide range of private and public sector clients including landowners, developers, owner-occupiers and local authorities. A selection of notable recent projects includes design of a modular housing development in Test Valley, early stage designs for a new technical building at the Dorset Innovation Park, redevelopment of a backland site in Forest Hill and the regeneration of an existing vacant factory building at Lyon Road in Poole.

We have worked on a number of low energy retrofit projects which highlights the growing demand for the re-purposing of our existing building stock. Re-imagining our workplaces post pandemic alongside a greater understanding, within the industry, of the need to reduce embodied energy.

We operate both a Quality Management System (QMS) and Environmental Management System (EMS), certified ISO 9001 and EMS ISO 14001, demonstrating our commitment to continual operational and environmental improvements. We were proud to become a Carbon Neutral practice in 2021.

Between October 2014 and June 2023 we have worked on:

20 Retrofit / Fit Out Projects

18 BREEAM Projects Delivered to Good or Better

05 Projects Committed to RIBA 2030 Climate Challenge Targets

01 Project to Passivhaus Standard

How we've offset our emissions since becoming a Carbon Neutral practice:

14 Trees planted to offset 14 tCO_2e

04 International community projects supported to offset 13 tCO_2e

Mission Statement

There is no denying the climate emergency demands a global effort to reduce our carbon emissions and restore our natural habitats and ecosystems, requiring wide-spread change to our lifestyles and practices. In 2019, as architects and designers, within an industry accounting for nearly 40% of energy-related CO2 emissions, Boyle & Summers made a commitment to act and do better.

In 2020 we became signatories to the Architects Declare: Climate & Biodiversity Emergency movement and signed up to the RIBA 2030 Climate Challenge, where we will work to meet ambitious but achievable energy, water and embodied carbon performance targets on all our significant projects by 2030.

We have also committed to becoming a carbon neutral practice in our operations as a priority, ensuring our day-to-day activities have no impact on our environment. We are proud to state that in 2021 we became a carbon neutral business through offsetting, investing in UK tree planting.

We are aware it does not stop here and have set ambitious annual carbon reduction goals for both the business operation and delivery of our projects, set out in our 2030 Vision, sustainable goals. We have committed to producing an annual Sustainability Report to document our progress and celebrate our achievements along the way. Both documents can be downloaded from our website.

Boyle & Summers are a RIBA charted practice and operate an Environmental Management Systems (EMS). This helps us to assess the sustainable opportunities and potential deliverable outcomes on all projects at the earliest stage. We recognise the importance of our role as advisers to our clients on sustainable design and the benefits to their business and assets in considering net zero whole life carbon of their buildings. To assist us, we have introduced our own Net Zero Project Delivery Guide; a Sustainable Design Checklist; and an Energy Performance Guide to define the sustainable outcomes from inception on all new projects. Our Sustainable Design Checklist closely aligns with the RIBA Plan of Works and the RIBA Sustainable Outcomes Guide.

Part of our journey will involve continually improving our knowledge of low embodied energy materials and sustainable construction methods and technologies. Our aim is to consistently challenge the way we design from first principles, to further maximise building performance and minimise the use of resources.

We are excited about the journey ahead, look forward to playing a leading role in the transition of construction into a zero carbon industry and are optimistic for a greener and cleaner world.

2020 Benchmark Statistics

19,376 kWh of Natural Gas

6,825 Miles Travelled

Smart Meter Installed

SCOPE ONE*

9703 kWh of Electricity at 0.2532 $KGCO_2E/kWh$

SCOPE TWO*

17 Employees

30% of employees commute to work by Bicycle, on foot or on using public transport

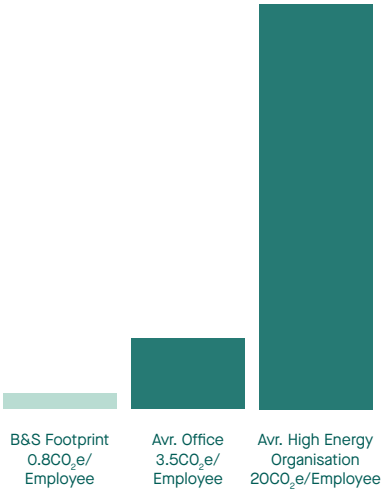
66% of the year employees worked from home

5 Ink Cartridges
6 Ink Toners

8 Plotter Paper Rolls

25 Reams A4
27 Reams A3

SCOPE THREE*



*Greenhouse gas emissions are measured in three categories. Scope One - All Direct Emissions from the activities of an organisation or under their control. Including fuel combustion on site such as gas boilers, fleet vehicles and air-conditioning leaks. Scope 2 – Indirect Emissions from electricity purchased and used by the organisation. Emissions are created during the production of the energy and eventually used by the organisation. Scope 3 – All Other Indirect Emissions from activities of the organisation, occurring from sources that they do not own or control. These are usually the greatest share of the carbon footprint, covering emissions associated with business travel, procurement, waste and water.

**Rise in emissions from 2019 is a result of employees working from home for the majority of 2020 due to the pandemic

2020 Benchmark Statistics

2020 is our benchmark year against which we will track our progress towards achieving our 2030 goals

In 2020 we committed to :

- [x] Sign up to the Architects Declare Movement
- [x] Sign up to the RIBA 2030 Climate Challenge
  Committing by 2030 to attempt to:
  - Reduce operational energy demand by at least 60% for non-domestic buildings and 50% for domestics buildings from current business as usual benchmark figures and maximise the use of on-site renewables
  - Reduce embodied carbon by at least 40% from current business as usual benchmark figures by using low carbon materials that are responsibly and ethically sourced
  - Reduce potable water use by at least 40% from CIRIA benchmark & Building Regulation figures
  - Achieve all core health and well-being metrics
- [x] Produce a Boyle & Summers Sustainability Strategy
  - Set a framework of actions required in order to address the climate emergency & our responsibility to do better and set goals.
  - As a result of extensive research investigation into guidance, standards, targets, case studies & recommendations to inspire & guide us on our path to carbon neutrality.

By 2030 we will

- Reduce our benchmark footprint by 100%
- Become carbon neutral without the need to offset
- Reduce commuter emissions to zero
- Deliver all projects to the RIBA 2030 Climate Challenge reduction targets
- Deliver 75% of projects to net zero
- 50% retrofit projects

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**Rise in emissions from 2019 is a result of employees working from home for the majority of 2020 due to the pandemic

2022 Statistics

Purchased a second electric company car

Set up a SW office in a carbon neutral co-working space

Award for commercial project of the year

SCOPE ONE*

27,345kWh of Natural Gas

15,202 Miles Travelled

SCOPE TWO*

8,752kWh of Electricity at $KGCO_2E/kWh$

Renewable energy tariff reduced carbon emissions by **16%**

04 Retrofit / fit out projects

04 Projects committed to **BREEAM** excellent as a minimum

03 Projects committed to RIBA 2030 climate challenge targets

SCOPE THREE*

16 Employees

43%

of employees regularly commute to work by bicycle, on foot or using public transport

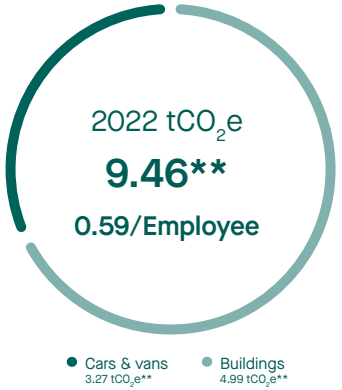
Hybrid working reduced commuter mileage by approx.

25%

10 Ink Cartridges
0 Ink Toners

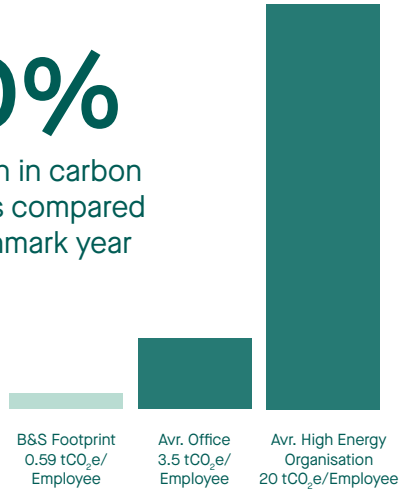
5 Plotter Paper Rolls

21 Reams A4
11 Reams A3



30%

Reduction in carbon emissions compared to benchmark year



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**The 2022 figure shown is our market-based carbon footprint which takes into account the our renewable energy tariff. Our location-based carbon footprint is 11.31 tCO_2e.

2022 Comparison to 2021

14% / 3.03 tCO_2e

Reduction in carbon emissions

Gas usage decreased by

1%

Electricity usage decreased by

2%

Business mileage emissions increased by

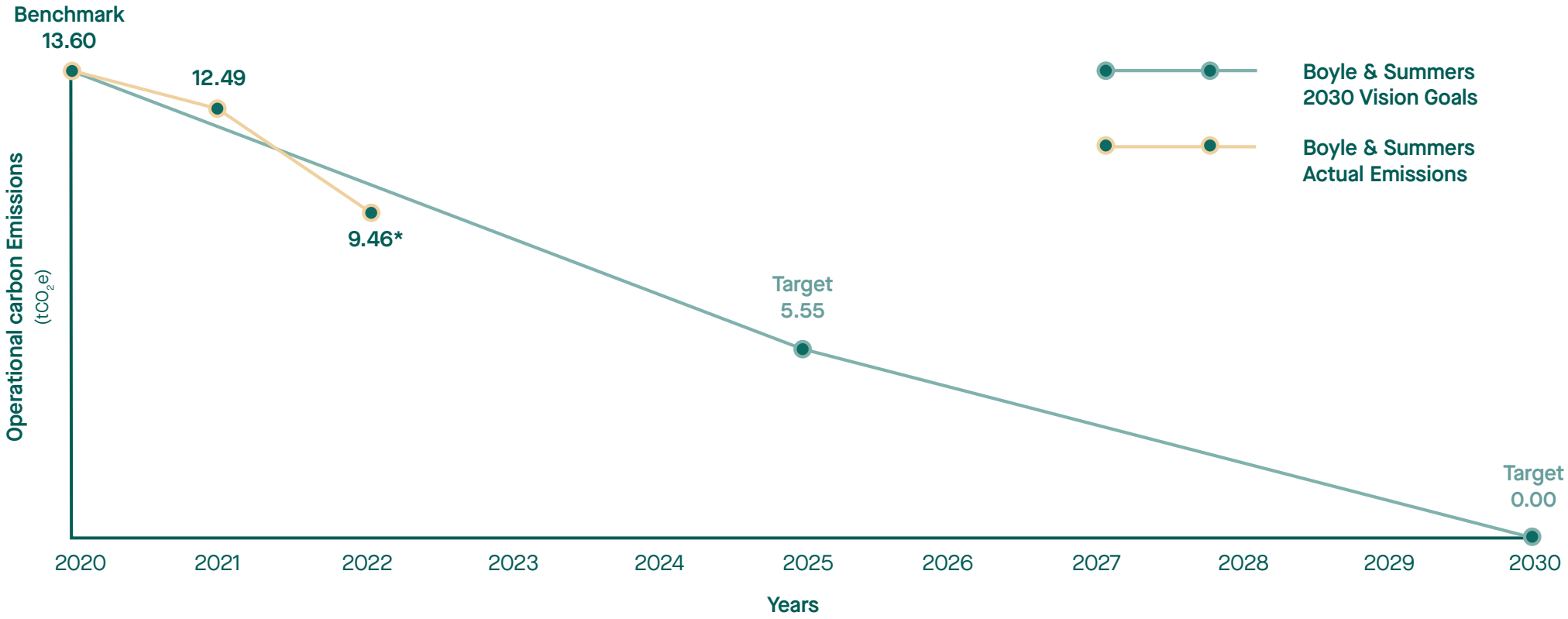
56%*

Printer paper and ink usage decreased by

8%

The 2022 figure shown is our market-based carbon footprint which takes into account the our renewable energy tariff. Our location-based carbon footprint is 11.31 tCO2e.
* This increase is a result of getting back to normal after reduced travel during the pandemic years. This is our first recorded year without any lock downs.

How We're Doing



*The 2022 figure shown is our market-based carbon footprint which takes into account the renewable energy tariff. Our location-based carbon footprint is 11.31 tCO_2e.

2030 Vision

Company operational carbon reduction goals*

Benchmark Year

2020
13.6
tCO_2e

LED lighting upgrade in the office

Focus CPD for all staff to improve knowledge of low energy design principles

2021

New energy efficient laptops and hardware

Introduce hybrid working scheme to reduce commuter travel

Switch to renewable energy tariff

Introduce signs in the office to encourage recycling/energy saving

Encourage car sharing / public transport & prioritise teams meetings instead of vehicular travel

2022

Become carbon neutral in business operation through offsetting

Purchase 1 electric or hybrid company car for staff to use with company travel

Change to eco-friendly office equipment suppliers

Begin investing in offsetting scheme. Use certificated scheme to promote and showcase our commitments

Encourage landlord to commit to making energy efficiency measures to Canute Chambers (consideration of EV chargers; showers; PVs, building fabric improvements; heat pump

2023

Move to newer and more energy efficient premises before current lease expires in September 2023

Reduce benchmark carbon footprint figure by 25%

Reduce benchmark business travel emissions by 50%

Begin process in becoming a B Corp organisation

2024

Purchase 2nd electric or hybrid company car for staff to use for company travel.

Reduce benchmark footprint figure by 37.5%

Reduce business travel emissions by 75%

2025
5.55
tCO_2e

Reduce business travel emissions by 100%. All company travel by public transport or electric / hybrid vehicle

Reduce benchmark footprint figure by 50%

Reduce offsetting requirement by 25%

Become a B Corp organisation

2026

Reduce benchmark footprint figure by 60%

Reduce commuter travel emissions by 40%

2027

Invest in renewable technology (PVs, ASHP, MVHR etc) at office premises (if feasible)

Reduce benchmark footprint figure by 70%

Reduce commuter travel emissions by 50%

2028

Reduce benchmark footprint figure by 80%

Reduce commuter travel emissions by 70%

2029

Reduce benchmark footprint figure by 90%

Reduce commuter travel emissions by 85%

2030
0
tCO_2e

Reduce benchmark footprint figure by 100%

Eliminate any requirement for offsetting. (Can continue investing in offsetting schemes as good will / company ethos)

Eliminate staff commuter emissions to zero

*We have reviewed our 2030 Vision and have reworded, repositioned or removed goals to make sure that our targets are realistic and achievable.

2030 Vision

Company operational carbon reduction goals

What We Have Achieved So Far

2022 Goals

- [x] Purchase 1 electric company car (2 members of staff now drive an electric car so this goal has been exceeded)
- [x] Change to eco-friendly office equipment suppliers
- [x] Begin investing in offsetting scheme. Use certificated scheme to promote and showcase our commitments
- [x] Introduce signs in the office to encourage recycling and energy saving (in progress)
- [x] Encourage landlord to commit to making energy efficiency measures to Canute Chambers (consideration of EV chargers; showers; PVs, building fabric improvements; heat pump

2023 Goals

- [x] Move to newer and more energy efficient premises before current lease expires in September 2023. **We moved premises in December 2022 and will compare its energy efficiency after a full year of occupancy**

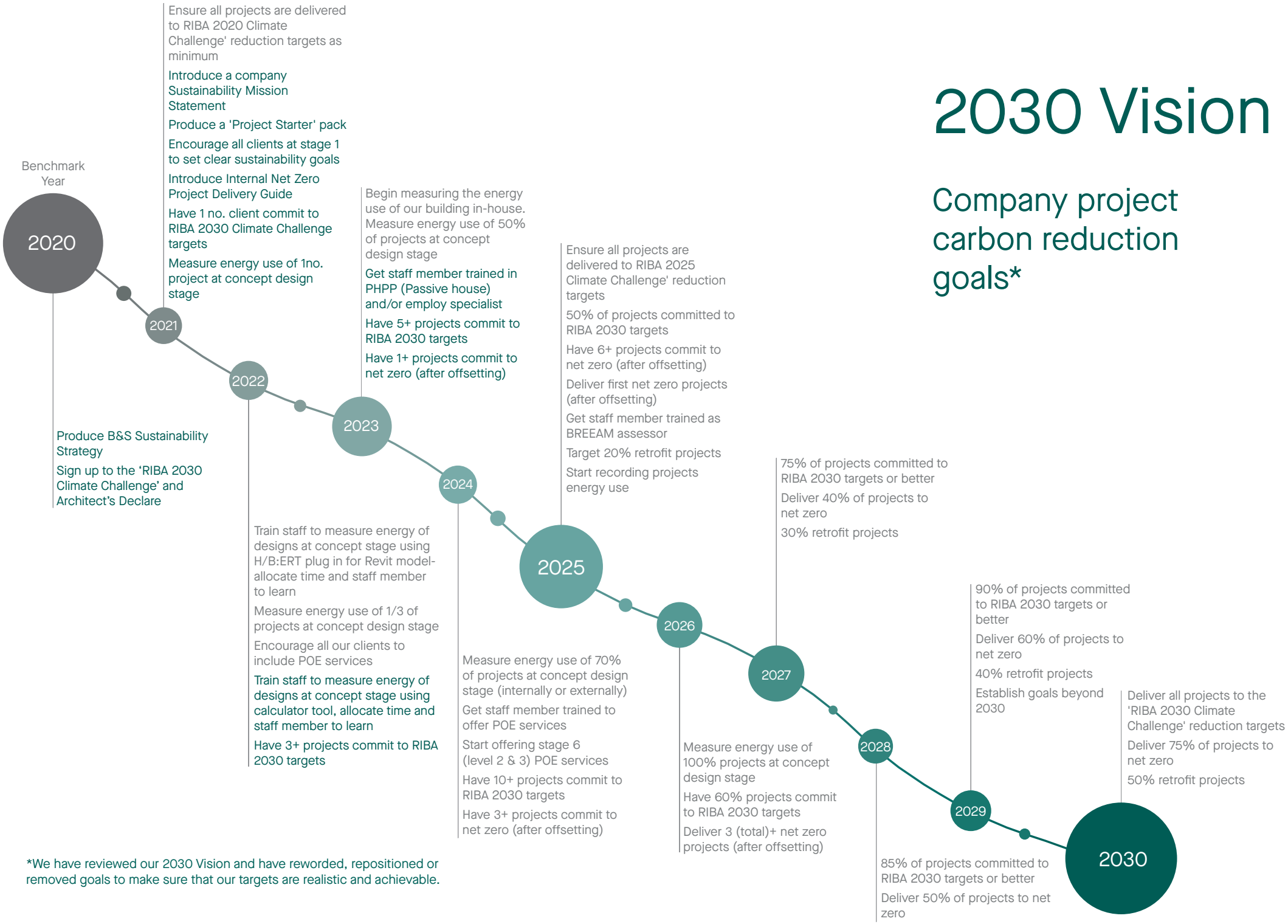
What We're Still Working On

2023 Targets

- Reduce benchmark carbon footprint figure by 25%
- Reduce business travel emissions by 50%
- Begin process in becoming a B Corp organisation

2030 Vision

Company project carbon reduction goals*



*We have reviewed our 2030 Vision and have reworded, repositioned or removed goals to make sure that our targets are realistic and achievable.

2030 Vision

Company project carbon reduction goals

What We Have Achieved So Far

2022 Goals

- [x] Train staff to measure energy of designs at concept stage using calculator tool, allocate time and staff member to learn
- [x] Have 3+ projects commit to RIBA 2030 targets

2023 Goals

- [x] Get staff member trained in PHPP (Passive house) and/or employ specialist
- [x] Have 5+ projects commit to RIBA 2030 targets
- [x] Have 1+ projects commit to net zero (after offsetting)

What We're Still Working On

2022 Targets

- Train staff to measure energy of designs at concept stage using H/B:ERT plug in for Revit model- allocate time and staff member to learn
- Measure energy use of 1/3rd of projects at concept design stage (Early appointment of Sustainability consultant initially)
- Encourage all our clients to include POE services (can still advise client to include service by others in first instance)

2023 Targets

- Begin measuring the energy use of our building in-house. Measure energy use of 50% of projects at concept design stage


Boyle &
Summers