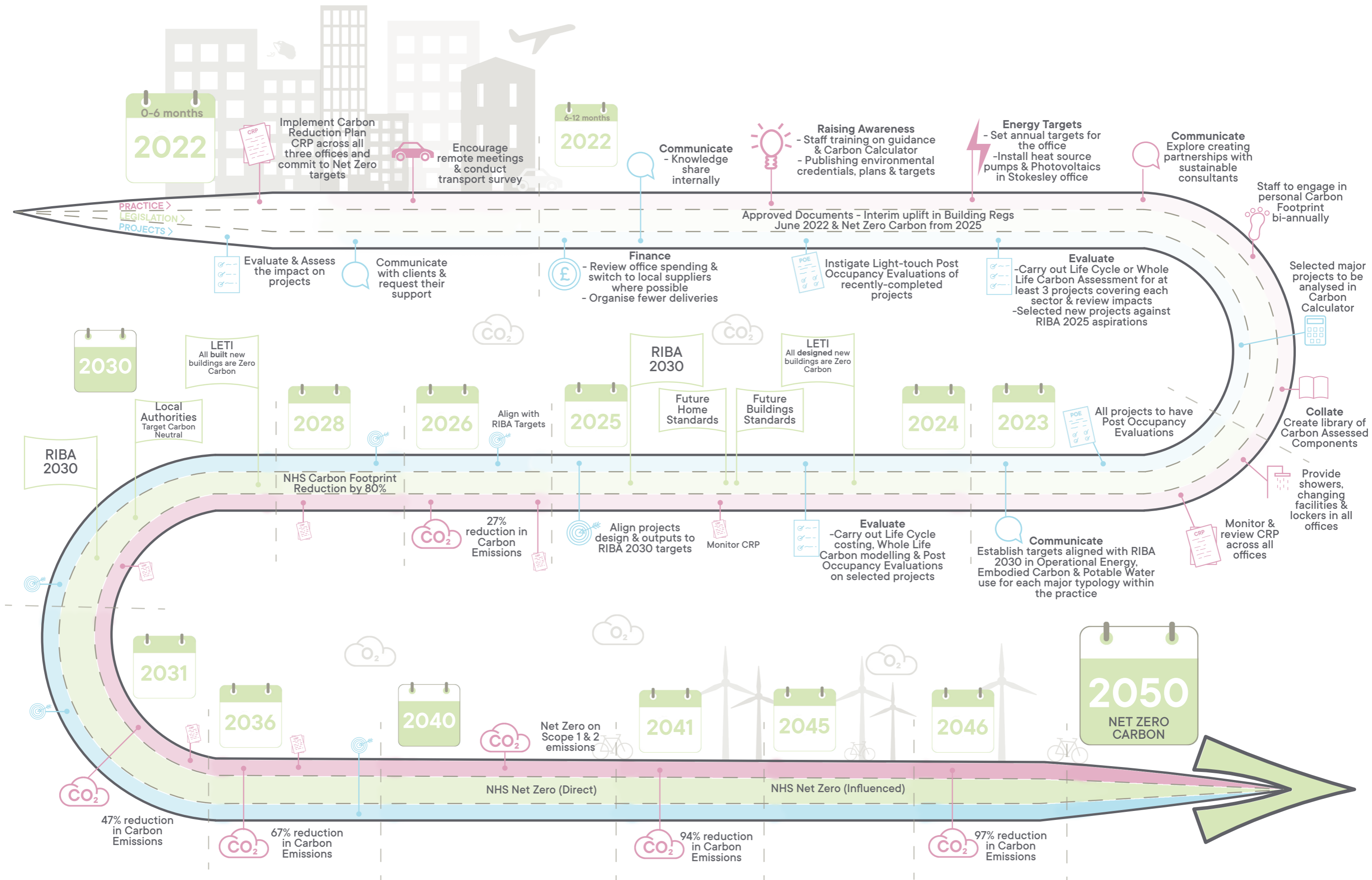


# Our Footpath to Achieving Net Zero Emissions by 2050



# Commitment to achieving Net Zero

## - How we get there:

## 2022 0-6 Months

### Practice

- **Governance & Finance:** Establish resourcing options of support in continued development towards Net Zero targets.
- **Governance & Finance:** Assign time, resources and budget to tackle next steps Inc. CRP renewal / collection of data.
- **Governance & Finance:** Establish and implement Carbon Reduction plan across all three offices.
- **Governance & Finance:** Align & Commit: Roadshow to roll out company aspirations and hear feedback.
- **QA:** Redefine ISO 14001 Objectives and targets with Carbon Reduction Plan + Health & Well being.
- **Governance & Finance:** Review / redefine practise values.
- **Governance & Finance:** Establish Key Stakeholders Identify roles and responsibilities for introducing change - Practise operations, Design work.
- **Raise Awareness / Training:** Raise Staff Awareness (CPDs / Case Studies) Identify CPDs and in-house presentation to share knowledge.
- **Governance & Finance:** Identify Sustainable Lead.
- **Transport:** Staff survey of travel / car for work.
- **Transport:** Encourage remote meetings where practicable and agreed with Client.

### Legislation

- **No Criteria Identified**

### Projects

- **Evaluate:** Key Projects (Benchmarking Energy use / Embodied carbon).
- **Evaluate:** New Carbon Measuring / Energy Efficiency software.
- **Communicate:** Advise clients on RIBA 2030 commitment and request their support.
- **Evaluate:** Assess potential impact of June 2022 Building Regs interim uplift.

# 2022 6-12 Months

## Practice

- **Raise Awareness / Training:** ENERGY: Publicise environmental credentials / policies / targets (& progress) around the office.
- **Carbon Emissions:** CRP: Carbon Emissions: 118.09 tCO<sub>2</sub>e location based & 23.62 tCO<sub>2</sub>e per £M turnover (0% reduction).
- **Raise Awareness / Training:** ensure staff are aware of the RIBA 'Plan for Use' guidance.
- **Raise Awareness / Training:** Initially selected staff training in Carbon Calculator.
- **Premises:** ENERGY: Agree annual energy targets for the office.
- **Premises:** ENERGY: Heat source pumps, Photovoltaics installation Stokesley.
- **Governance & Finance:** Review office spend – switch to local & low impact suppliers.
- **Governance & Finance:** Organise fewer deliveries – (explore options on sharing with nearby practices and neighbouring business).
- **Governance & Finance:** Align management groups across all three offices.
- **Carbon Emissions:** Staff – engage personal carbon footprints ongoing (Bi-Annually).
- **Waste:** (Engage in understanding quantities of material used and waste).
- **Waste:** (Encourage suppliers- eliminate single use plastics).
- **Waste:** Target zero waste landfill.
- **Communicate:** Explore creating partnerships with New / Sustainable consultants.

## Legislation

- **Approved Documents:** Interim uplift in Building Regs (Future Standards) June 2022 and Net Zero Carbon from 2025.

## Projects

- **Communicate:** Internally impact of BR uplift advise on New Goals (Tech specs detailing & Materials).
- **Communicate:** Share knowledge (Internally / RIBA 2030).
- **Raise Awareness / Training:** Establish project reviews and sustainability kick off meetings.
- **Raise Awareness / Training:** Ensure learning from post project reviews.
- **POE:** Instigate light touch Post Occupancy Evaluations of recently completed projects.
- **Collate:** Start a library of components that have been carbon assessed – e.g. façade panels, floor build-ups. (Links to BREEAM).
- **Evaluate:** Carry out Life Cycle Assessment or Whole life Carbon analysis for at least three projects covering each sector within the practise.
- **Evaluate:** Estimate WLC impact of practise's projects work, annually. review impacts (WLC) and reduce every 6 months?
- **Raise Awareness / Training:** Encourage use of Environmental design guidance.
- **Communicate:** Align suppliers / external consultants with CRP.
- **RIBA 2030:** Register of RIBA 2030 projects for tracking.
- **Evaluate:** Selected New projects against 2025 aspirations.
- **Evaluate:** selected major projects to be analysed in Carbon Calculator.

# 2023

## Practice

- **Premises:** Provide showers, lockers, changing space at all offices.
- **Governance & Finance:** Monitor and review progress of Carbon Reduction plan across all three offices.

## Legislation

- **No Criteria Identified**

## Projects

- **Communicate:** establish targets aligned with RIBA 2030 in Operational Energy, Embodied Carbon & Potable Water use for each major typology within the practise.
- **Evaluate:** Review impacts of Practise projects (WLC) and reduce every 6 months?
- **Evaluate:** All major projects to be analysed in Carbon Calculator.
- **POE:** All projects to have light touch Post Occupancy Evaluations.

# 2024

## Practice

- **Governance & Finance:** Monitor and review progress of Carbon Reduction plan across all three offices.

## Legislation

- **No Criteria Identified**

## Projects

- **Evaluate:** Review impacts of practice projects (WLC) and reduce every 6months?
- **Evaluate:** Carry out Life Cycle Costing, Whole Life Carbon modelling and Post Occupancy Evaluations on selected projects.

# 2025

## Practice

- **Governance & Finance:** Monitor and review progress of Carbon Reduction plan across all three offices

## Legislation

- **Future Home Standards:** All New Build home – to be Net Zero Carbon Ready for 2050
- **Future Buildings Standards:** Implemented – Homes built will produce 75-80% less carbon emissions than under current ( published before June 2021 ) regulations
- **LETI:** Target all new buildings designed to achieve Net Zero Carbon
- **RIBA 2030 CCC:** Operational Energy – 70kWh/m<sup>2</sup>/y – Dom Buildings
- **RIBA 2030 CCC:** Operational Energy – 110kWh/m<sup>2</sup>/y – Non-Dom Buildings
- **RIBA 2030 CCC:** Embodied Carbon – 450 KgCO<sub>2</sub>e/m<sup>2</sup> – Dom Buildings

- **RIBA 2030 CCC:** Embodied Carbon – 650 KgCO<sub>2</sub>e/m<sup>2</sup> – Non Dom Buildings
- **RIBA 2030 CCC:** Potable Water Use – 95 l/p/day – Dom Buildings
- **RIBA 2030 CCC:** Potable Water Use – 13 l/p/day – Non Dom Buildings
- **RIBA 2030 CCC:** Indoor Health Meet key health & wellbeing metrics
- **RIBA 2030 CCC:** Biodiversity Significantly improve Biodiversity of site
- **RIBA 2030 CCC:** Delivery Follow RIBA Plan for Work Sustainability Strategy & Plan for Use Guide
- **RIBA 2030 CCC:** Delivery Undertake at least light touch POE.

## Projects

- **RIBA 2030 :** Align projects design and outputs to RIBA 2030 Climate challenge.

# 2026

## Practice

- **Governance & Finance:** Monitor and review progress of Carbon Reduction plan across all three offices
- **Carbon Emissions: CRP: Carbon Emissions:** 86.25 tCO<sub>2</sub>e location based & 17 tCO<sub>2</sub>e per £M turnover (27% reduction)

## Legislation

- **No Criteria Identified**

## Projects

- **RIBA 2030 :** Align projects design and outputs to RIBA 2030 Climate challenge.

# 2028

## Practice

- **Governance & Finance:** Monitor and review progress of Carbon Reduction plan across all three offices

## Legislation

- **NHS:** for the emissions NHS control directly (the NHS Carbon Footprint 80% reduction by 2028 to 2032)

# 2030

## Practice

- **Governance & Finance:** Monitor and review progress of Carbon Reduction plan across all three offices

## Legislation

- **Local Authorities:** LA's targeting Carbon Neutral by 2030.
- **LETI :** All new builds to Achieve Net Carbon Zero
- **RIBA 2030 CCC:** WLC Achieve Net Zero Whole life Carbon for New & Retrofitted buildings
- **RIBA 2030 CCC:** Op Energy & CO2 emissions: Achieve < 55kWh/m2/y Op energy use for non-Dom buildings (75% reduction in Op energy compared to CIBSE TM46 benchmarks)
- **RIBA 2030 CCC:** Op Energy & CO2 emissions: Achieve < 35kWh/m2/y Op energy use for Dom buildings (75% reduction to current Ofgem benchmarks or equiv of Passivhaus)
- **RIBA 2030 CCC:** Op Energy & CO2 emissions: Design using realistic op energy targets (regulated & unregulated energy use) O CIBSE TM54 or Better Building Partnership Design for Performance.

## Projects

- **RIBA 2030 :** Align projects design and outputs to RIBA 2030 Climate challenge.

- **RIBA 2030 CCC:** Embodied energy and Co2 emissions: Use RICS WLC assessment for built environment or built environment professional statement 2017 to assess embodied carbon
- **RIBA 2030 CCC:** Achieve Embodied carbon of 500kgCO2e/m2 for Non-Dom & 300kgCO2e/m2 for Dom buildings ( prioritising building retrofit and using low carbon healthy materials & ethically sourced )
- **RIBA 2030 CCC:** Achieve 10 litres. person / day for Non -Dom & 75 litres / person / day for Dom buildings (min 40% reduction in potable water use compared to CIRIA guidance)
- **RIBA 2030 CCC:** Indoor Health Meet key health & wellbeing metrics
- **RIBA 2030 CCC:** Biodiversity Significantly improve Biodiversity of site
- **RIBA 2030 CCC:** Delivery Follow RIBA Plan for Work Sustainability Strategy & Plan for Use Guide
- **RIBA 2030 CCC:** Delivery Undertake at least light touch POE.

## Projects

- **RIBA 2030 :** Align projects design and outputs to RIBA 2030 Climate challenge.

# 2031

## Practice

- Governance & Finance: Monitor and review progress of Carbon Reduction plan across all three offices.
- Carbon Emissions: **CRP: Carbon Emissions: 62.5 tCO<sub>2</sub>e location based & 12.5 tCO<sub>2</sub>e per £M turnover (47% reduction).**

## Legislation

- **No Criteria Identified**

## Projects

- RIBA Sustainable Outcomes: Align projects design and outputs to RIBA Sustainable Outcomes.

# 2036

## Practice

- Governance & Finance: Monitor and review progress of Carbon Reduction plan across all three offices.
- Carbon Emissions: **CRP: Carbon Emissions: 37.5 tCO<sub>2</sub>e location based & 7.5 tCO<sub>2</sub>e per £M turnover (68% reduction).**

## Legislation

- NHS: for the emissions NHS can influence (our NHS Carbon Footprint Plus), an 80% reduction by 2036 to 2039.

## Projects

- RIBA 2030 : Align projects design and outputs to RIBA 2030 Climate challenge.

# 2040

## Practice

- Governance & Finance: Monitor and review progress of Carbon Reduction plan across all three offices.
- Carbon Emissions: **CRP: Carbon Emissions: Net Zero on SCOPE 1 & 2 emissions.**

## Legislation

- NHS: for the emissions NHS control directly (the NHS Carbon Footprint), net zero by 2040.

## Projects

- RIBA 2030 : Align projects design and outputs to RIBA 2030 Climate challenge.

# 2041

## Practice

- Governance & Finance: Monitor and review progress of Carbon Reduction plan across all three offices.
- Carbon Emissions: **CRP: Carbon Emissions: 6.25 tCO2e location based & 1.25 tCO2e per £M turnover (94% reduction).**

## Legislation

- **No Criteria Identified**

# 2045

## Practice

- Governance & Finance: Monitor and review progress of Carbon Reduction plan across all three offices.

## Legislation

- NHS : for the emissions NHS can influence (our NHS Carbon Footprint Plus), net zero by 2045.

## Projects

- RIBA Sustainable Outcomes: Align projects design and outputs to RIBA Sustainable Outcomes.



# 2046

## Practice

- Governance & Finance: Monitor and review progress of Carbon Reduction plan across all three offices.
- Carbon Emissions: CRP: Carbon Emissions: 3.12 tCO<sub>2</sub>e location based & 0.6 tCO<sub>2</sub>e per £M turnover (97% reduction).

## Projects

- RIBA Sustainable Outcomes: Align projects design and outputs to RIBA Sustainable Outcomes.

## Legislation

- No Criteria Identified

# 2050

## Practice

- Carbon Emissions: CRP: Carbon Emissions: 0 tCO<sub>2</sub>e location based & 0 tCO<sub>2</sub>e per £M turnover (100% reduction).

## Projects

- RIBA Sustainable Outcomes: Align projects design and outputs to RIBA Sustainable Outcomes.

## Legislation

- No Criteria Identified