

# Performance Framework

Version 1

# Foreword



**Anne-Marie Trevelyan**  
Co-Chair of the Construction Leadership Council

**As Co-Chair of the Construction Leadership Council, I'm delighted to welcome you to 'Construct Zero: The Performance Framework. The Prime Minister has set out the global importance of climate change, and the need for collective action from firms and individuals across the UK, to address the challenge of climate change and achieve net zero carbon emissions in the UK by 2050.**

**Never before has there been such a strong collective desire across the political spectrum, society, and businesses for us to step up to the challenge. We all have a responsibility to step up and take action now to protect the next generation, our children's children. It is our duty to do so, as citizens, parents, and leaders to enable and provide a better world for our children.**

The Prime Minister has been clear on the importance of the built environment sector in meeting his target for the UK to reduce its carbon emissions by 78% compared to 1900 levels by 2035. Put simply, the built environment accounts for 43% of UK emissions, without its contribution- we will not meet this target, and support the creation of 250,000 green jobs.

Therefore, I'm delighted the Construction Leadership Council (CLC) is leading the sector's response to this challenge, through the Construct Zero change programme. Building on the success of the sector's collaborations during COVID, the CLC has engaged the industry to develop the Performance Framework, which sets out how the sector will commit to, and measure its progress towards, Net Zero. The CLC's success in building momentum behind Construct Zero is shown by the level of the industry's response to the consultation, with over 2,500 comments from firms of all sizes.

# Foreword

I was delighted to see this support for the proposed metrics, and today's announcement also sets out a number of commitments made by the industry to reduce its carbon emissions. These include:

- Working with Government deliver retrofitting to 27 million homes by 2040
- 78% of diesel plant to be eliminated from construction sites by 2035
- From 2022, we will give all our clients the chance to become net zero by offering alternative low carbon design options
- We will target 1,500 of the sector's businesses and clients to sign up to a measurable carbon reduction plan (including Race to Zero, Science based Targets or Climate Hub) by 2025

However, we recognise that this is, and needs to be, a genuine partnership between the sector and Government. Through our consultation and wider discussions, we have heard and

recognised the role of Government in providing the policy and regulatory environment that enables the whole sector and indeed the wider economy to succeed and flourish. We are responding to this challenge through the Government's Heat and Buildings Strategy and the Industrial Decarbonisation Strategy, providing a sound, progressive, forward-facing policy environment that enables and recognises businesses who are working to reduce their carbon emissions targets.

What is clear is that we are not starting from an empty sheet of paper. The success of Construct Zero's Business Champions programme has shown how companies of all sizes across the sector are already actively working to reduce their carbon emissions and delivering tangible progress. These range from Mitie, Saint Gobain, Mott MacDonald, McLaughlin & Harvey through to Peak, Costain, Mace and Travis Perkins. There are many others.

The work and commitment of our Business Champions is outstanding. However, we can't rest on our laurels. We need to capitalise on this support during what will prove a vital decade in determining whether we can prevent significant climate change occurring, and embed Construct Zero's metrics and commitments across the wider sector.

This is the start of the journey and together we will learn, develop and adapt. The important step now is taking that first step, together, as a partnership between the Government and the construction industry. Only by working together collectively, will we meet the challenge of achieving net zero carbon and truly build back better, faster and greener for future generations.

I would like to thank each of you for your support on the programme and look forward to continuing to work with you.

# Section 1

# Introducing the Performance Framework

## What is the Performance Framework?

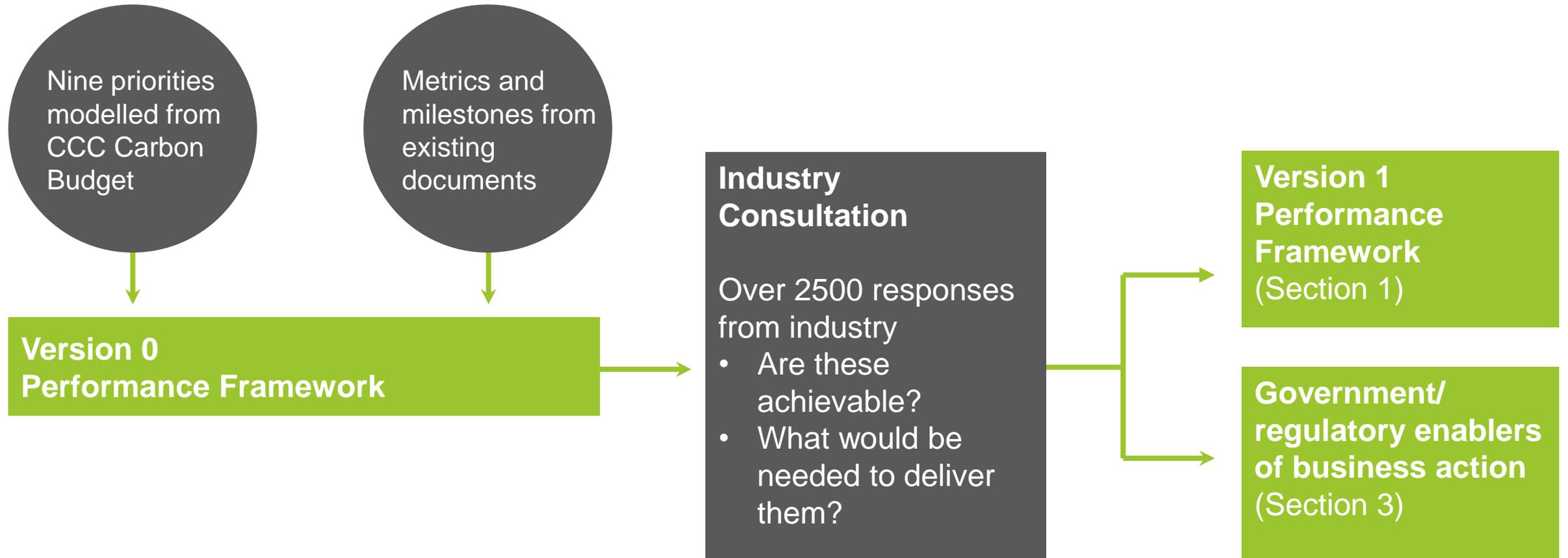
The Performance Framework has been developed to provide the CLC with a **sector level dashboard** on our progress towards Net Zero aimed at **motivating businesses to action** and to help those outside the sector **understand our progress**.

We intend to collate data for the dashboard on a **quarterly basis** albeit **not every metric** will be available quarterly. The data itself will be drawn from sources which already aggregate it, known as data point owners.

In developing the sector level dashboard we have identified **Project and Business Metrics** which align to the sector level indicators. We **don't intend to measure these on a quarterly basis**, they have been issued for guidance to businesses and projects to consider when developing their own plans.

The Performance Framework is very closely aligned with Government policy and draws on emerging thinking on carbon measurement and assessment, as such **it will evolve over time** and we will no doubt **update and improve the metrics**. Those that are published today are a starting point so we can review, test and refine.

## How has it been developed?



# The Framework is based on measuring performance against the nine priorities

## Transport

- 1 Accelerating the shift of the construction workforce to **zero emission vehicles** and **onsite plant**
- 2 Optimise the use of **Modern Methods of Construction** and improved onsite logistics, in doing so reducing waste and transport to sites

- 3 Championing **developments** and **infrastructure** investments that both **enable connectivity with low carbon modes** of transport and design to incorporate readiness for zero emission vehicles

## Buildings

- 4 Work with Government to **deliver retrofitting** to improve energy efficiency of the existing housing stock
- 5 Scale up industry capability to deliver **low carbon heat solutions in buildings**, supporting heat pump deployment, trials of hydrogen heating systems and heat networks

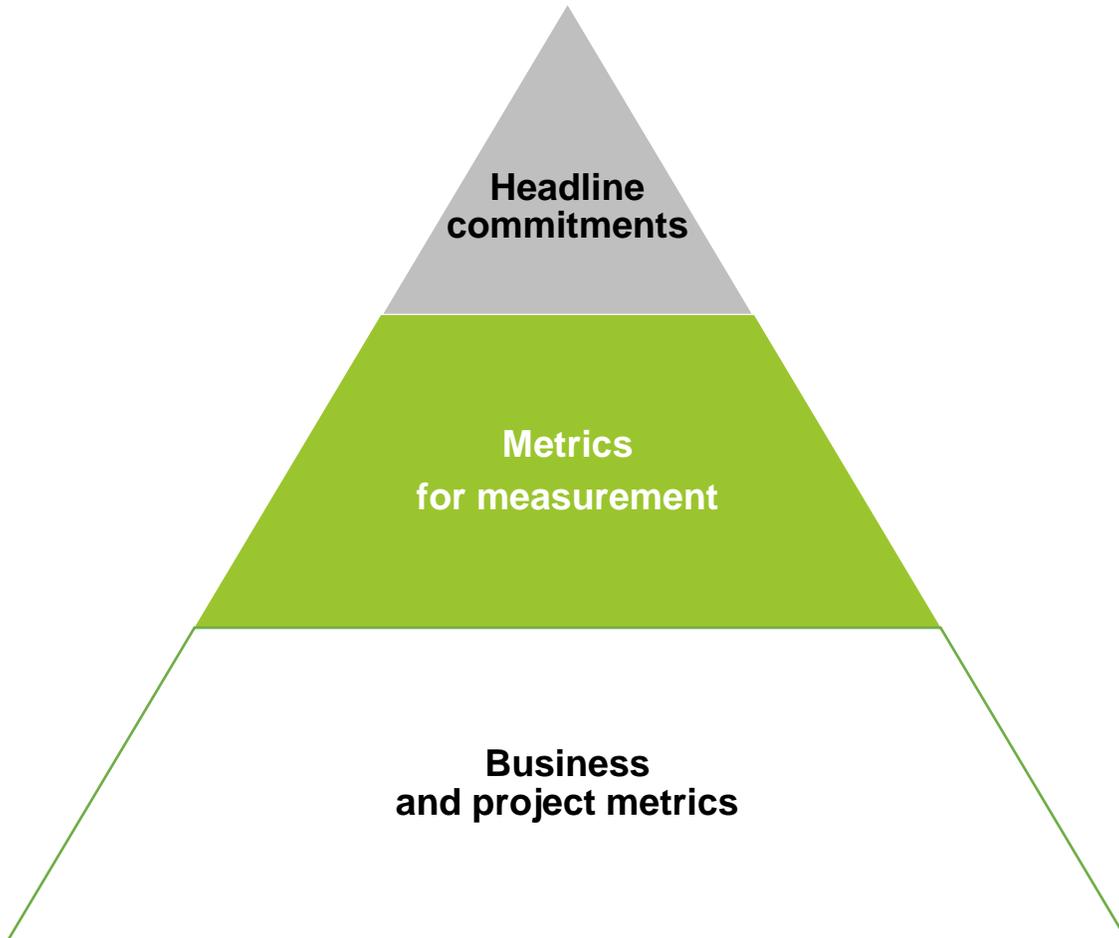
- 6 Enhancing the **energy performance** of **new and existing buildings** through higher operational energy efficiency standards and better building energy performance

## Construction activity

- 7 Implementing **carbon measurement**, to support our construction projects in making quantifiable decisions to remove carbon
- 8 Become world leaders in **designing out carbon**, developing the capability of our designers and construction professionals to design in line with circular economy - shifting commercial models to reward measurable carbon reductions

- 9 Support development of innovative **low carbon materials**, as well as advancing low carbon solutions for **manufacturing production processes and distribution**

# Structure of the Framework



The headline commitments are the top level 'outcome' measures of success, one aligned to each of our 9 priorities. Progress against each will be reported on a quarterly basis and will be determined from the metrics for measurement (below).

Metrics for measurement are the sector level indicators of progress towards the headline commitments, they will be collated by the CLC on a quarterly basis by drawing data together from the data point owners to tell the sector's story.

Business and project metrics are provided for guidance on preparing aligned plans at a business and project level, these will be looked at ad-hoc by the CLC if required to better understand progress on the metrics for measurement.

## Headline commitments

1	Accelerating the shift of the construction workforce to <b>zero emission vehicles</b> and <b>onsite plant</b>	78% of diesel plant to eliminated from construction sites by 2035
2	Optimise the use of <b>Modern Methods of Construction</b> and improved onsite logistics, reducing waste and transport to sites	Close the productivity gap between Construction and economy average output per worker by 2035
3	Championing <b>developments</b> and <b>infrastructure</b> investments that both <b>enable connectivity with low carbon modes</b> of transport and design to incorporate readiness for zero emission vehicles	From 2025, planning applications from the sector must connect to public / active transport and include EV charging where parking is provided
4	Work with Government to <b>deliver retrofitting</b> to improve energy efficiency of the existing housing stock	Working with Government deliver retrofitting to 27 million homes by 2040
5	Scale up industry capability to deliver <b>low carbon heat solutions in buildings</b> , supporting heat pump deployment, trials of hydrogen heating systems and heat networks	From 2025 all new buildings will be designed with low carbon heating solutions
6	Enhancing the <b>energy performance</b> of <b>new and existing buildings</b> through higher operational energy efficiency standards and better building energy performance	From 2025 we will deliver new homes and buildings which will minimise energy demand and reduce emissions in operation by 75% (dwellings) and at least 27% (commercial buildings) compared to current standards

## Headline commitments

7	Implementing <b>carbon measurement</b> , to support our construction projects in making quantifiable decisions to remove carbon	Every client of the sector will be provided carbon data by 2030 to make informed lower carbon choices
8	Become world leaders in <b>designing out carbon</b> , developing the capability of our designers and construction professionals to design in line with circular economy - shifting commercial models to reward measurable carbon reductions	From 2022, we will give all our clients the chance to become net zero by offering alternative low carbon design options and advice to clients, even if not scoped
9	Support development of innovative <b>low carbon materials</b> , as well as advancing low carbon solutions for <b>manufacturing production processes and distribution</b>	By 2035 we will have reduced construction product emissions down by 66% from 2018

**Business carbon measurement** – we will target 1,500 of the sector's businesses and clients to sign up to a measurable carbon reduction plans (including Race to Zero, Science based Targets or Climate Hub) by 2025

# Transport

<p><b>Headline commitment</b></p>	<p><b>78% of diesel plant to eliminated from construction sites by 2035</b></p>	<p><b>Close the productivity gap between Construction and economy average output per worker by 2035</b></p>	<p><b>From 2025, planning applications from the sector must connect to public / active transport and include EV charging where parking is provided</b></p>
<p><b>Metrics for measurement</b></p>	<p>Annual increase in non-diesel plant in use from plant hire firms</p>	<p>Annual reduction in construction and demolition waste and excavation waste tonnes/£m output</p>	<p>Measure % of relevant planning qualifying bodies to put in place:-</p> <ol style="list-style-type: none"> <li>1. Entrance requirements include threshold carbon literacy/competence test (100% by January 2025).</li> <li>2. Continued Professional Development on climate change mitigation for all professional members (100% by 2022)</li> </ol>
	<p>Every construction or client business over 250 staff to trial 1 zero diesel site by end of 2023</p>	<p>Measure industry onsite Productivity output/FTE</p>	
	<p>Annual increase in electric vans in construction fleet</p>	<p>Increase % of pre-manufactured value across sector year on year</p>	

# Buildings

Headline commitment	Working with Government deliver retrofitting to 27 million homes by 2040	From 2025 all new buildings will be designed with low carbon heating solutions	From 2025 we will deliver new homes and buildings which will minimise energy demand and reduce emissions in operation by 75% (dwellings) and at least 27% (commercial buildings) compared to current standards
Metrics for measurement	Deliver retrofitting to 855,000 homes by 2024, 12,300,000 homes by 2030, and 27,300,000 homes by 2040.	Increase in Heat Pump installations per year to exceed Government target of 600,000 per year by 2028	Annual reduction in average energy requirements for new dwellings and existing (EPC based)
	Establish industry 'quality scheme' routes and licensing consistent with PAS2035 and target annual increase in number of businesses registered	Number of buildings connected to low carbon heat networks and heat pumps installed as % of overall building stock	Annual reduction in actual energy usage in Buildings (ECUK based)
	Number TrustMark Retrofit Coordinators targeting 30,000 by 2028	Annual increase in trained Heat Pump Installers (MCS Registrations) aiming for 30,000 by 2030	

# Construction activity

## Headline commitment

**Every client of the sector will be provided carbon data by 2030 to make informed lower carbon choices**

**From 2022, we will give all our clients the chance to become net zero by offering alternative low carbon design options and advice to clients, even if not scoped**

**By 2035 we will have reduced construction product emissions down by 66% from 2018**

## Metrics for measurement

Measure % of relevant qualifying bodies to project carbon measurement put in place:-  
1) Entrance requirements/ membership assessments to include threshold carbon literacy /competence test by January 2025.  
2) CPD on climate change mitigation for all members to be available from January 2022 and mandatory from January 2024

All businesses or clients over 250 staff to identify, specify and trial a relevant low carbon alternative product on a project by the end of 2023

Work with Government to have CCUS operational on 2 clusters by 2028

Measurement of total MtCO2 emitted based on client Net Zero advice and designs accepted

Establish 2018 baseline and target annual reduction in energy used in production kWh/Tonne for key product lines

40% of product portfolios to have EPDs by 2025 with 100% by 2030, targeting a baseline and annual updates from 2025.

Measure % of relevant qualifying bodies to put in place:-  
1. Entrance requirements include threshold carbon literacy/competence test (100% by January 2025).  
2. Continued Professional Development on climate change mitigation for all members (100% by 2022)

Establish 2018 baseline and target annual reduction in embodied carbon CO2/Tonne for key product lines

Every business or client over 250 staff in infrastructure to achieve PAS 2080 accreditation, monitor % coverage, target 100% by 2025

## Section 2

# How the CLC and businesses will use the Performance Framework

# How will Construct Zero's metrics be used?

## Process

- Plan to collate the Sector metrics for measurement from industry quarterly, by drawing together the data points from each of the data point owner organisations
- Where there are anomalies/trends this will be investigated in discussion with the relevant industry leads to draw out a narrative and explore any action required
- On an ad-hoc basis the Project & Business Metrics will be monitored to better understand any variances and anomalies
- The PF metrics will be constantly under review and will be updated as better sources of data are developed – for example reform of the EPC process for buildings

# How will Construct Zero's metrics be used?

## Publication

- Reported to Government to demonstrate the sector's progress
- Published on CLC website
- Used by the Advisory Board to assess progress & challenge back
- Feedback to the Programme Board & Task Force on performance and areas of focus

## How will businesses and clients use them?

- The project and business commitments and metrics are published for guidance.
- They are aimed at providing direction for businesses and clients in how to establish their Net Zero plans in an aligned way to the 9 priorities, in doing so understanding they are targeting the areas the sector can have the most impact on Net Zero.
- Furthermore they will instil consistency in approach and pace of change where we have common supply chains across the sector for example this could be around aligning client requirements or common construction product supply chains.

# Section 3

**What are the enablers  
for the sector to reach  
Net Zero**

# Summary of key enablers

## Government

Work with industry to establish the funding, capability and regulatory environment to deliver the substantial domestic retrofit programme required in the Built Environment, as set to in the CLC Retrofit Strategy.

Utilise the buying power on Gov estate to create the market capability to develop and deliver low carbon solutions

Publication of Heat & Buildings strategy to give long term policy direction to the market including:-

- Consistent subsidy policy for heat pump installation for consumers

Conditionality on city and devolution deals to include development of city wide NZ plans across infrastructure and built environment assets

Introduce grants for workplace EV charging infrastructure

Progressing a full-scale CCUS & Hydrogen network in the UK

## Legislation/regulation

Faster grid connections to sites to enable diesel free sites (currently take circa 16 weeks)

Regulation to accelerate decarbonisation of the grid and increase in options for renewable energy to meet industry demand

During the implementation of Planning for the Future consider the following:

- Provide an uplift in investment in planning departments to join up infrastructure and planning decisions
- Alignment of National and Local Transport Investment strategies and the Local Development Plans
- Introduction of a Whole life carbon assessment for buildings (as per current London requirements)

Products labelling and data base with a simple consumer facing EPD, similar to white goods currently.

## Tax

Introduce an EV scrappage scheme for light commercial vehicles (vans)

Maintain existing OLEV

Consider changes to parity of refurbishment vs. new build VAT to encourage recycling and reuse

Expand the scope of the super deduction to cover plant hire capital costs in order to accelerate replacement of diesel plant

# Summary of key enablers

## CLC members

Produce a productivity and PMV league table for the main contractors (similar to prompt payment code)

Development of business champions case studies on:-

- What construction companies can/are doing on their own business premises
- Trials of Zero Diesel Construction sites

Collective engagement with plant manufacturers to drive the market for zero diesel onsite plant (such as buying clubs to aggregate demand)

Develop and publish standards and definitions for PMV, recognising this might be different for different sub-sectors

Create a sector wide products & actual performance data base with embodied carbon data

Support SMEs to understand and measure carbon impacts by creating a Construction sector business carbon calculator based on the CZ metrics

Update to relevant British Standards to include low carbon materials

## Market led innovation

Support for sector deal continuity to establish platform rules/standards and support for SMEs and government departments to deliver on the Construction Playbook

Digital tools to support development of Building Renovation passports for direct to consumer assessment and conversations around retrofit potential, financing, modelling and an industrialised approach

Support for cross-sector innovation and research to reduce costs of all aspects of retrofit and evidence performance to drive demand and bridge to a self-financing situation faster

# Section 4

## Next steps

# Next steps

- First quarterly report expected in autumn
- CZ to work with each of the data point owners to determine clear definitions and the process for data collection
- Encourage CLC Taskforce & CZ Partners to work with their members on adopting the business and project metrics

# Appendices

1. Project and business metrics and commitments (for guidance)
2. Construct Zero business champions and partners list
3. Full list of consultee organisations who responded

# Annex 1

# Guidance on business and project commitments

1

Accelerating the shift of the construction workforce to **zero emission vehicles** and **onsite plant**

**Sector – CLC to monitor**

**Business – for guidance**

**Project – for guidance**

**Headline commitment**

**78% of diesel plant to eliminated from construction sites by 2035**

**Metrics for measurement**

Annual increase in non-diesel plant in use from plant hire firms

Set a date to phase out diesel plant and fleet

For larger projects consider installing EV charging points at site establishment

Every construction or client business over 250 staff to trial 1 zero diesel site by end of 2023

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Every construction or client business over 250 staff to trial 1 zero diesel site by end of 2023

Annual increase in electric vans in construction fleet

Set a year on year business mileage reduction target from 2022 – 2025

Measures site miles / £m of project costs to reduce year on year

Optimise the use of **Modern Methods of Construction** and improved onsite logistics, in doing so reducing waste and transport to sites

**Sector – CLC to monitor**

**Business – for guidance**

**Project – for guidance**

**Headline  
commitment**

**Close the productivity gap between Construction and economy average output per worker by 2035**

**Metrics for  
measurement**

Annual reduction in construction and demolition waste tonnes/£100k output

Annual reduction in business waste tonnes/ £m turnover

Annual reduction in project waste tonnes / £m project costs

Measure industry onsite Productivity output/FTE

Measure business Productivity onsite with £m revenue/FTE

Measure project Productivity onsite with £m project cost/FTE

Increase % of pre-manufactured value across sector year on year

Define and increase % of pre-manufactured value within the business year on year

Define and target increase % of pre-manufactured value within a project year on year or across a portfolio

Championing **developments** and **infrastructure** investments that both **enable connectivity with low carbon modes** of transport and design to incorporate readiness for zero emission vehicles

**Sector – CLC to monitor**

**Business – for guidance**

**Project – for guidance**

**Headline commitment**

**From 2025, planning applications from the sector must connect to public / active transport and include EV charging where parking is provided**

**Metrics for measurement**

Measure % of relevant qualifying bodies to put in place:-  
1. Entrance requirements include threshold carbon literacy /competence test (100% by January 2025).  
2. Continued Professional Development on climate change mitigation for all members (100% by 2022)

Annual increase in number of EV charging points installed by the sector

For businesses with planning professionals ensure they are undertaking relevant CPD put in place a plan for and monitor delivery of it

Annual increase in number of EV charging points installed by the business on projects per £1m turnover

Include carbon literacy requirements in procurement appointments for planning professionals

Factor connectivity with public/active transport links and EV charging in project and investment appraisals

Work with Government to **deliver retrofitting** to improve energy efficiency of the existing housing stock

**Sector – CLC to monitor**

**Business – for guidance**

**Project – for guidance**

**Headline  
commitment**

**Working with Government deliver retrofitting to 27 million homes by 2040**

**Metrics for  
measurement**

Deliver retrofitting to 855,000 homes by 2024, 12,300,000 homes by 2030, and 27,300,000 homes by 2040.

Establish industry 'quality scheme' routes and licensing consistent with PAS2030/35 and target annual increase in businesses registered

Number TrustMark Retrofit Coordinators targeting 30,000 by 2028

Businesses to measure and increase their % revenue from the Repair, Maintenance & Improvement of buildings which resulted in an improved EPC grading

Businesses with a role in retrofit to register with an approved Quality Scheme consistent with PAS2030/35

Businesses to assess their role in retrofit and accordingly develop a skills training plan and monitor delivery of it

Commit to developing a digital Building Passport, making future retrofits easier and more efficient

Specify PAS2035 roles on retrofit projects

Specify TrustMark Retrofit Coordinators on retrofit projects

5

Scale up industry capability to deliver **low carbon heat solutions in buildings**, supporting heat pump deployment, trials of hydrogen heating systems and heat networks

**Sector – CLC to monitor**

**Business – for guidance**

**Project – for guidance**

**Headline commitment**

**From 2025 all new buildings will be designed with low carbon heating solutions**

**Metrics for measurement**

Increase in Heat Pump installations per year to exceed Government target of 600,000 per year by 2028

Number buildings connected to low carbon heat networks and heat pumps installed as % of overall building stock

Trained Heat Pump Installers (MCS Registrations) aiming for 30,000 by 2030

Commit to offering all customers who are offered low carbon heat solutions and target a % annual increase in uptake

Businesses involved in designing, constructing and installing low carbon heat solutions to develop a skills training plan aligned with agreed competence standards for relevant roles.

Introduce low carbon heat installations into project and investment appraisal processes and design briefs

No. buildings connected to low carbon heat networks and heat pumps installed as % of buildings constructed or owned on a project

Enhancing the **energy performance of new and existing buildings** through higher operational energy efficiency standards and better building energy performance

**Sector – CLC to monitor**

**Business – for guidance**

**Project – for guidance**

**Headline commitment**

**From 2025 we will deliver new homes and buildings which will minimise energy demand and reduce emissions in operation by 75% (dwellings) and at least 27% (commercial buildings) compared to current standards**

**Metrics for measurement**

Annual reduction in average energy requirements for new dwellings and existing (EPC based)

Annual reduction in actual energy usage in Buildings (ECUK based)

Appraise and deliver all cost viable retrofit solutions on business premises

All new build permanent business offices to be Net Zero ready

Target an annual reduction in actual energy usage in business premises and set a date to switch to a renewable energy supplier

Understand the industry average energy requirements for your asset type and target a reduction

Specify accurate design stage estimates of total energy usage for all building types, followed by post-occupancy evaluation and data disclosure.

**Sector – CLC to monitor**

**Business – for guidance**

**Project – for guidance**

**Headline commitment**

**Every client of the sector will be provided carbon data by 2030 to make informed lower carbon choices**

**Metrics for measurement**

Measure % of relevant qualifying bodies to project carbon measurement put in place:-  
 1) Entrance requirements/ membership assessments to include threshold carbon literacy /competence test by January 2025.  
 2) CPD on climate change mitigation for all members to be available from January 2022 and mandatory from January 2024

40% of product portfolios to have EPDs by 2025 with 100% by 2030

Every business or client over 250 staff in infrastructure to achieve PAS 2080 accreditation, monitor % coverage, target 100% by 2025

Measure % of estimators in a business who have completed carbon literacy training in order to be able to carry out embodied carbon assessments alongside bills of quantities

If you produce or distribute construction products understand current % with EPD and target an annual increase up to 100%

Businesses over 250 staff in infrastructure supply chain to plan for and achieve PAS 2080 accreditation

Include carbon literacy requirements in procurement appointments for project management professionals

Specify accurate design stage estimates of embodied and operational carbon requirements to be provided to inform decision making

Consider PAS 2080 accreditation if infrastructure project

Become world leaders in **designing out carbon**, developing the capability of our designers and construction professionals to design in line with circular economy - shifting commercial models to reward measurable carbon reductions

### Sector – CLC to monitor

### Business – for guidance

### Project – for guidance

#### Headline commitment

**From 2022, we will give all our clients the chance to become net zero by offering alternative low carbon design options and advice to clients, even if not scoped**

#### Metrics for measurement

All businesses or clients over 250 staff to identify, specify and trial a relevant low carbon alternative product on a project by the end of 2023

Measurement of total MtCO<sub>2</sub> emitted based on client Net Zero advice and designs accepted

Measure % of relevant qualifying bodies to put in place:-

1. Entrance requirements include threshold carbon literacy/competence test (100% by January 2025).
2. Continued Professional Development on climate change mitigation for all members (100% by 2022)

Identify relevant embodied carbon asset standards and compare your teams design performance against these, targeting an annual % reduction

Measurement of total MtCO<sub>2</sub> emitted based on client Net Zero advice and designs accepted

Measure % of designers in a business who have completed carbon literacy training in order to be able to carry out embodied carbon assessments alongside design

All businesses or clients over 250 staff to identify, specify and trial a relevant low carbon alternative product on a project by the end of 2023

Set an embodied carbon baselines and structure commercial arrangements to incentivise and reward designers who exceed these

Include carbon literacy requirements in procurement appointments for design professionals

**Sector – CLC to monitor**

**Business – for guidance**

**Project – for guidance**

**Headline commitment**

**By 2035 we will have reduced construction product emissions down by 66% from 2018**

**Metrics for measurement**

Work with Government to have CCUS operational on 2 clusters by 2028

Commit to trialling low carbon concrete or steel within your business portfolio

Work with Government to have CCUS operational on 2 clusters by 2028

Establish 2018 baseline and target annual reduction in energy used in production kWh/Tonne for key product lines

If you procure, specify or distribute concrete or steel monitor and target an annual reduction in energy used in production kWh/Tonne for the supplier

Understand the in energy used in production kWh/Tonne for key product lines and target an annual reduction for the supplier

Establish 2018 baseline and target annual reduction in embodied carbon CO2/Tonne for key product lines

If you procure, specify or distribute concrete or steel monitor and target an annual reduction in energy used in production in embodied carbon CO2/Tonne from the supplier

Understand the embodied carbon CO2/Tonne for key product lines and target an annual reduction for the supplier

# Annex 2

# Construct Zero business champions and partners list

# Construct Zero business partners

ACE  
Arcadis  
Atkins  
Barratt Developments  
Bennetts Associates  
BPF  
Build UK  
Builders Merchants Federation (BMF)  
Cambridge Centre for Smart Infrastructure & Construction  
Cast  
CBI  
CBRE  
CECA  
Centre for Digital Built Britain (cdbb)  
CIC  
CIH  
CIOB  
CIRIA  
CITB  
Considerate Contractors Scheme  
Constructing Excellence  
Construction Employers Federation  
Construction Products Association  
CPA UK  
EDF Energy  
Electrical Contractors' Association  
Electrical Distributors' Association  
Federation of Master Builders (FMB)  
Good Homes Alliance  
Health & Safety Executive (HSE)  
Home Builders Federation (HBF)  
I3p  
ICE  
Imperial College  
Infrastructure and Products Authority (IPA)  
Infrastructure Client Group (ICG)  
Institution of Structural Engineers

Laing O'Rourke  
Mace  
Mixergy  
Mott MacDonald  
NASC  
National Federation of Builders (NFB)  
National Home Improvement Council (NHIC)  
Powell Dobson Architects  
QA Scheme Support Services  
Rider Levett Bucknall  
Saint-Gobain  
Scottish Futures Trust  
Skanska  
Sustainable Energy Association  
Tideway  
TUC  
Turner & Townsend  
UKRI

# Construct Zero business champions

ACO	Cocuun Ltd	Knights Brown	Rider Levett Bucknall
Adair	Costain	Laing O'Rourke	Saint-Gobain
AICO	Faithful & Gould	MACE	SES
APP Wholesale	Hanson UK	McLaughlin & Harvey	Signify
Arcadis	Ibstock Plc	Mid Group	Steel Blue
Atkins	Imtech	Mitie	The Clarison Group
Bradfords	Jackson Civil Engineering	Mott MacDonald	Travis Perkins
Buro Happold	JCB	Multiplex	Turner & Townsend
Cast	Keltbray	Peak	Wavin
CEF	Knauf Insulation	RDM Electrical and Mechanical	

# Annex 3

## Full list of consultee organisations who responded

# Full list of consultee organisations who responded

Accelar Limited, as part of the TIES Living Lab  
ACE  
Actuate  
AD Construction Group  
AECB  
Aico Ltd  
Arcadis  
Argent  
Arup  
Balfour Beatty  
BAM UK (BAM Construct & BAM Nuttall)  
BCSA  
Bradfords  
Bradfords  
Brick Development Association  
British Board of Agreement (BBA)  
British Ceramic Confederation  
Building Engineering Services Association  
BESA  
Buro Happold  
CAST

CBRE  
CITB  
Considerate Contractors Scheme  
Constructing Excellence  
Construction Industry Council  
Construction Plant Hire Association  
CORGI Fenestration Scheme Limited  
Corgi Services Limited  
CPA  
Derwent London  
East West Rail  
ECA  
Electrical Distributors' Association  
F M Conway  
Finishes and Interiors Sector  
Glass and Glazing Federation  
Good Homes Alliance CIC  
Graham  
Green Construction Board  
Heat Pump Federation  
HIES  
Home Builders Federation

Innovate UK  
Jackson Civil Engineering Group Ltd  
Keltbray  
LABC  
Laing O'Rourke  
Legrand  
Mace  
Melius Homes  
Mineral Products Association  
Modulous  
Morgan Sindall  
Multiplex  
NCVC  
NHIC  
Passivhaus Trust, 5 Baldwin Terrace, London N1 7RU  
Project Etopia UK  
RetrofitWorks  
RICS  
Rider Levett Bucknall  
Royal Institution of Chartered Surveyors  
Saint Gobain

Skanska UK  
SmartCarbon Ltd  
Structural Timber Association  
Sustainable Energy Association  
Tarmac  
TFT  
The British Constructional Steelwork Association Limited  
Timber Development UK (formally TTF / TRADA)  
Tilbury Douglas  
Travis Perkins plc  
Turner & Townsend  
UKRI  
University of Cambridge (Department of Engineering; Laing O'Rourke Centre for Construction Engineering and Technology)  
Wates Group  
WSP in the UK  
xsite architecture LLP



C<sup>2</sup>onstructZERO

The Construction Industry's Zero carbon change programme